

**Reactions of chemically activated C₉H₉ species II:
The reaction of phenyl radicals with allene and cyclopropene,
and of benzyl with acetylene**

- Supporting information -

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Content

Page 2 : Modified Arrhenius expressions for the rate coefficient of the phenyl + allene reaction, and the partial rate coefficients for the three entrance channels, as derived in the TST calculations.

Page 3 : Temperature and pressure-dependent product yields (all products)

Page 992 : Tabulated effective product yields for the major products

Product species needed to obtain a product fraction of 0.995

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species	maximum contribution
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rad11	1.00000
Indene+H	0.987411
rad6	0.942283
Benzene+2-propynyl	0.797641
C2H2+PhCH2	0.176975
PhCH2CCH+H	0.136563
PhCHCCH2+H	0.0918421
PhCCH+CH3	0.0685486
rad7	0.0188489
PAH7+H	0.0105397
rad13	0.00959078
Ph+MeAc	0.00910729
PhcycC3H3_A+H	0.00890783
PhCCCH3+H	0.00848258
rad23	0.00803219
rad22	0.00768315
rad21	0.00632601
rad9	0.00398931
rad19syn	0.00388005
rad45	0.00332725
rad39	0.00192385
rad54	0.00125314
PAH9+H	0.00102956
rad28	0.000651023
Phenyl+Allene	0.00000

More information is available (population-averaged unimolecular rate coefficients, relative concentrations of intermediates,...), which is not included here due to the volume of the data. Contact the authors directly for obtaining additional supporting information.

Modified Arrhenius expressions

Modified Arrhenius expressions for the total and partial rate coefficients of the initial reaction of phenyl + allene, as derived in the TST calculations. Redissociation fractions are at most 30%, which is well within the estimated error margins of about a factor of 3 for the expressions below.

10-300 K :

$$k_{\text{rad6}}(T) = 1.654 \times 10^{-14} \cdot T^{0.342} \cdot \exp(-17.648 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{rad11}}(T) = 8.266 \times 10^{-15} \cdot T^{0.436} \cdot \exp(-14.278 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{abstr}}(T) = 4.894 \times 10^{-11} \cdot T^{-0.817} \cdot \exp(-24.674 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{tot}}(T) = 3.030 \times 10^{-15} \cdot T^{0.654} \cdot \exp(-14.232 \text{ kJ mol}^{-1} / kT)$$

reproduces TST calculations within factor of 2

200-2000 K :

$$k_{\text{rad6}}(T) = 2.194 \times 10^{-20} \cdot T^{2.643} \cdot \exp(-15.551 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{rad11}}(T) = 2.966 \times 10^{-20} \cdot T^{2.526} \cdot \exp(-11.918 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{abstr}}(T) = 5.650 \times 10^{-22} \cdot T^{3.195} \cdot \exp(-18.184 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{tot}}(T) = 8.519 \times 10^{-22} \cdot T^{3.192} \cdot \exp(-11.664 \text{ kJ mol}^{-1} / kT)$$

reproduces TST calculations within factor of 1.005 for addition
reproduces TST calculations within factor of 1.1 for H-abstraction

1000-4000 K :

$$k_{\text{rad6}}(T) = 5.490 \times 10^{-20} \cdot T^{2.530} \cdot \exp(-16.648 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{rad11}}(T) = 3.016 \times 10^{-20} \cdot T^{2.525} \cdot \exp(-12.009 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{abstr}}(T) = 9.542 \times 10^{-21} \cdot T^{2.858} \cdot \exp(-22.488 \text{ kJ mol}^{-1} / kT)$$
$$k_{\text{tot}}(T) = 1.404 \times 10^{-20} \cdot T^{2.851} \cdot \exp(-15.396 \text{ kJ mol}^{-1} / kT)$$

reproduces TST calculations within factor of 1.001 for addition
reproduces TST calculations within factor of 1.01 for H-abstraction

Temperature and pressure-dependent product yields (all products)

- Pressure range spans 1E-9 to 1E8 Pa, in steps of 1 order of magnitude.
- Temperature starts at 20K, increases in steps of 10K to 300K, then in steps of 100K to 1500K, and finally in steps of 250K up to 4000K.
- Rate constants are in units of $\text{cm}^3 \text{ molecule}^{-1} \text{ s}^{-1}$, product yields (PY) in fractions.
- The "effective" rate constants and product yields are corrected for redissociation to the original reactants, the columns denoted "true" are the original values prior to correction.
- Products are listed in order of importance. The columns marked "Cumul" give the cumulative sum of all product yields, to facilitate the selection of major versus minor products.

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100000000. Pa, 20.0000000 K
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Rate constant      | True (fraction)      Effective (fraction)
-----
Total              | 1.56740e-51 (1.00   ) 1.56740e-51 (1.00   )
Formation of rad11| 1.56740e-51 (1.000  ) 1.56740e-51 (1.000  )
Formation of rad6  | 3.73945e-60 (2.39e-09) 3.73945e-60 (2.39e-09)
H-abstraction      | 1.53631e-76 (9.80e-26) 1.53631e-76 (9.80e-26)

species            | PYtrue      Cumul      | PYeffective  Cumul
-----
rad11              | 1.00000     1.00000   | 1.00000     1.00000
rad6               | 2.35504e-07 1.00000   | 2.35504e-07 1.00000
rad21              | 1.20143e-08 1.00000   | 1.20143e-08 1.00000
rad25              | 4.93618e-12 1.00000   | 4.93618e-12 1.00000
rad20              | 6.93617e-13 1.00000   | 6.93617e-13 1.00000
PhCHCCH2+H        | 2.83510e-13 1.00000   | 2.83510e-13 1.00000
rad22              | 2.66617e-13 1.00000   | 2.66617e-13 1.00000
rad24              | 3.15133e-14 1.00000   | 3.15133e-14 1.00000
rad9               | 1.46899e-14 1.00000   | 1.46899e-14 1.00000
Phenyl+Allene     | 1.80102e-16 1.00000   | 0.00000     1.00000
rad45              | 9.61692e-17 1.00000   | 9.61692e-17 1.00000
rad13              | 3.28128e-17 1.00000   | 3.28128e-17 1.00000
rad36              | 1.16355e-17 1.00000   | 1.16355e-17 1.00000
rad7               | 9.40319e-18 1.00000   | 9.40319e-18 1.00000
rad18              | 3.53107e-18 1.00000   | 3.53107e-18 1.00000
rad33              | 2.26646e-19 1.00000   | 2.26646e-19 1.00000
Indene+H           | 3.78122e-20 1.00000   | 3.78122e-20 1.00000
C2H2+PhCH2        | 2.95958e-20 1.00000   | 2.95958e-20 1.00000
rad23              | 6.02472e-21 1.00000   | 6.02472e-21 1.00000
PhCH2CCH+H        | 6.67652e-22 1.00000   | 6.67652e-22 1.00000
rad3               | 1.33793e-25 1.00000   | 1.33793e-25 1.00000
Benzene+2-propynyl| 9.80165e-26 1.00000   | 9.80165e-26 1.00000
rad4               | 3.03086e-26 1.00000   | 3.03086e-26 1.00000
rad28              | 3.28001e-27 1.00000   | 3.28001e-27 1.00000
rad8               | 9.51146e-28 1.00000   | 9.51146e-28 1.00000
PAH7+H            | 4.07035e-30 1.00000   | 4.07035e-30 1.00000
rad30              | 3.34053e-30 1.00000   | 3.34053e-30 1.00000
rad15              | 4.86556e-31 1.00000   | 4.86556e-31 1.00000
rad31              | 4.89327e-33 1.00000   | 4.89327e-33 1.00000
rad38              | 1.94796e-33 1.00000   | 1.94796e-33 1.00000
rad2               | 4.08956e-34 1.00000   | 4.08956e-34 1.00000
rad46              | 2.03277e-34 1.00000   | 2.03277e-34 1.00000
rad1               | 3.43069e-35 1.00000   | 3.43069e-35 1.00000
PhCCH+CH3         | 1.13123e-35 1.00000   | 1.13123e-35 1.00000
rad60syn           | 5.65141e-36 1.00000   | 5.65141e-36 1.00000
PAH9+H            | 2.87456e-36 1.00000   | 2.87456e-36 1.00000
rad35              | 1.66767e-36 1.00000   | 1.66767e-36 1.00000
rad14              | 1.46735e-36 1.00000   | 1.46735e-36 1.00000
rad60anti          | 5.90703e-37 1.00000   | 5.90703e-37 1.00000
rad26              | 3.90815e-37 1.00000   | 3.90815e-37 1.00000
Ph+MeAc           | 4.18090e-40 1.00000   | 4.18090e-40 1.00000
rad39              | 1.25655e-42 1.00000   | 1.25655e-42 1.00000
PAH3+H            | 1.14544e-42 1.00000   | 1.14544e-42 1.00000
rad59              | 5.36072e-43 1.00000   | 5.36072e-43 1.00000
rad10              | 3.88037e-43 1.00000   | 3.88037e-43 1.00000
rad50              | 1.72188e-44 1.00000   | 1.72188e-44 1.00000
rad27              | 4.01354e-46 1.00000   | 4.01354e-46 1.00000
PhCCCH3+H         | 6.43000e-47 1.00000   | 6.43000e-47 1.00000
rad70              | 4.30360e-49 1.00000   | 4.30360e-49 1.00000

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rad19syn	1.98103e-49	1.00000	1.98103e-49	1.00000
rad12	1.35796e-49	1.00000	1.35796e-49	1.00000
rad54	1.32038e-50	1.00000	1.32038e-50	1.00000
rad37	3.17207e-51	1.00000	3.17207e-51	1.00000
rad52	1.98928e-53	1.00000	1.98928e-53	1.00000
rad34	1.84807e-54	1.00000	1.84807e-54	1.00000
rad55	5.27929e-57	1.00000	5.27929e-57	1.00000
rad51	9.60610e-58	1.00000	9.60610e-58	1.00000
rad5	6.09342e-58	1.00000	6.09342e-58	1.00000
PhcycC3H3_A+H	1.29433e-58	1.00000	1.29433e-58	1.00000
rad58	1.09254e-59	1.00000	1.09254e-59	1.00000
PAH10+CH3	1.44734e-61	1.00000	1.44734e-61	1.00000
rad47	2.96196e-63	1.00000	2.96196e-63	1.00000
rad65	4.58249e-64	1.00000	4.58249e-64	1.00000
rad62	2.27481e-64	1.00000	2.27481e-64	1.00000
PAH1+H	6.49593e-68	1.00000	6.49593e-68	1.00000
rad43	2.55710e-71	1.00000	2.55710e-71	1.00000
rad42	1.18701e-74	1.00000	1.18701e-74	1.00000
rad41	1.10534e-82	1.00000	1.10534e-82	1.00000

100000000. Pa, 30.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	5.03204e-39	(1.00)	5.03204e-39	(1.00)
Formation of rad11	5.03203e-39	(1.000)	5.03203e-39	(1.000)
Formation of rad6	9.92181e-45	(1.97e-06)	9.92181e-45	(1.97e-06)
H-abstraction	3.33191e-55	(6.62e-17)	3.33191e-55	(6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.999998	0.999998	0.999998	0.999998
rad6	2.44237e-06	1.00000	2.44237e-06	1.00000
rad21	2.43464e-08	1.00000	2.43464e-08	1.00000
rad25	1.00792e-11	1.00000	1.00792e-11	1.00000
rad20	2.83495e-12	1.00000	2.83495e-12	1.00000
rad22	1.08975e-12	1.00000	1.08975e-12	1.00000
PhCHCCH2+H	5.86080e-13	1.00000	5.86080e-13	1.00000
rad24	1.28581e-13	1.00000	1.28581e-13	1.00000
rad9	3.05373e-14	1.00000	3.05373e-14	1.00000
rad13	4.93079e-15	1.00000	4.93079e-15	1.00000
rad7	1.52809e-15	1.00000	1.52809e-15	1.00000
rad45	7.50018e-16	1.00000	7.50018e-16	1.00000
Phenyl+Allene	4.28138e-16	1.00000	0.00000	1.00000
rad36	1.37100e-16	1.00000	1.37100e-16	1.00000
Benzene+2-propynyl	6.62139e-17	1.00000	6.62139e-17	1.00000
rad33	4.41452e-17	1.00000	4.41452e-17	1.00000
rad18	2.91322e-17	1.00000	2.91322e-17	1.00000
Indene+H	3.12376e-19	1.00000	3.12376e-19	1.00000
C2H2+PhCH2	2.46431e-19	1.00000	2.46431e-19	1.00000
rad23	4.98290e-20	1.00000	4.98290e-20	1.00000
PhCH2CCH+H	1.61759e-21	1.00000	1.61759e-21	1.00000
rad3	9.09794e-23	1.00000	9.09794e-23	1.00000
rad4	3.94858e-23	1.00000	3.94858e-23	1.00000
rad28	3.42992e-24	1.00000	3.42992e-24	1.00000
rad8	5.28841e-27	1.00000	5.28841e-27	1.00000
rad30	5.64759e-29	1.00000	5.64759e-29	1.00000
PAH7+H	1.99378e-29	1.00000	1.99378e-29	1.00000
rad31	1.09540e-29	1.00000	1.09540e-29	1.00000
rad15	8.25352e-30	1.00000	8.25352e-30	1.00000
rad2	2.06288e-30	1.00000	2.06288e-30	1.00000
rad1	3.09575e-31	1.00000	3.09575e-31	1.00000
rad38	6.33634e-32	1.00000	6.33634e-32	1.00000
PhCCH+CH3	4.36650e-32	1.00000	4.36650e-32	1.00000
rad14	4.94265e-33	1.00000	4.94265e-33	1.00000
rad46	3.44660e-33	1.00000	3.44660e-33	1.00000
rad60syn	1.01818e-34	1.00000	1.01818e-34	1.00000
PAH9+H	4.87279e-35	1.00000	4.87279e-35	1.00000
rad35	2.82254e-35	1.00000	2.82254e-35	1.00000
rad60anti	1.09653e-35	1.00000	1.09653e-35	1.00000
rad26	3.88390e-36	1.00000	3.88390e-36	1.00000
Ph+MeAc	1.62986e-36	1.00000	1.62986e-36	1.00000
rad39	6.80810e-39	1.00000	6.80810e-39	1.00000
rad10	5.50445e-39	1.00000	5.50445e-39	1.00000
PAH3+H	2.29881e-41	1.00000	2.29881e-41	1.00000
rad59	1.07424e-41	1.00000	1.07424e-41	1.00000
rad27	6.52683e-42	1.00000	6.52683e-42	1.00000
PhCCCH3+H	1.23935e-42	1.00000	1.23935e-42	1.00000
rad50	3.43912e-43	1.00000	3.43912e-43	1.00000
rad19syn	2.64184e-46	1.00000	2.64184e-46	1.00000

rad54	1.30420e-47	1.00000	1.30420e-47	1.00000
rad12	2.72088e-48	1.00000	2.72088e-48	1.00000
rad70	2.37920e-48	1.00000	2.37920e-48	1.00000
rad37	6.37816e-50	1.00000	6.37816e-50	1.00000
rad52	8.16888e-52	1.00000	8.16888e-52	1.00000
rad5	2.72886e-53	1.00000	2.72886e-53	1.00000
rad34	1.05428e-53	1.00000	1.05428e-53	1.00000
rad55	2.88619e-54	1.00000	2.88619e-54	1.00000
PhcycC3H3_A+H	7.11438e-56	1.00000	7.11438e-56	1.00000
rad51	4.08813e-56	1.00000	4.08813e-56	1.00000
rad58	2.48337e-58	1.00000	2.48337e-58	1.00000
PAH10+CH3	3.16229e-60	1.00000	3.16229e-60	1.00000
rad62	9.77697e-61	1.00000	9.77697e-61	1.00000
rad47	6.98726e-62	1.00000	6.98726e-62	1.00000
rad65	1.01072e-62	1.00000	1.01072e-62	1.00000
PAH1+H	2.53493e-65	1.00000	2.53493e-65	1.00000
rad43	5.62114e-67	1.00000	5.62114e-67	1.00000
rad42	1.90558e-71	1.00000	1.90558e-71	1.00000
rad41	8.16569e-79	1.00000	8.16569e-79	1.00000

100000000. Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.35697e-33 (1.00)	9.35697e-33 (1.00)
Formation of rad11	9.35644e-33 (1.000)	9.35644e-33 (1.000)
Formation of rad6	5.26139e-37 (5.62e-05)	5.26139e-37 (5.62e-05)
H-abstraction	1.44763e-44 (1.55e-12)	1.44763e-44 (1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.999943	0.999943	0.999943	0.999943
rad6	5.69336e-05	1.000000	5.69336e-05	1.000000
rad21	3.65933e-08	1.000000	3.65933e-08	1.000000
rad25	1.53872e-11	1.000000	1.53872e-11	1.000000
rad20	6.34237e-12	1.000000	6.34237e-12	1.000000
rad22	2.43806e-12	1.000000	2.43806e-12	1.000000
Benzene+2-propynyl	1.54712e-12	1.000000	1.54712e-12	1.000000
PhCCH2+H	9.17755e-13	1.000000	9.17755e-13	1.000000
rad24	2.87738e-13	1.000000	2.87738e-13	1.000000
rad13	2.03412e-13	1.000000	2.03412e-13	1.000000
rad7	6.33096e-14	1.000000	6.33096e-14	1.000000
rad9	4.83702e-14	1.000000	4.83702e-14	1.000000
rad45	2.44085e-15	1.000000	2.44085e-15	1.000000
rad33	1.84595e-15	1.000000	1.84595e-15	1.000000
Phenyl+Allene	8.71713e-16	1.000000	0.000000	1.000000
rad36	5.09363e-16	1.000000	5.09363e-16	1.000000
rad18	9.71726e-17	1.000000	9.71726e-17	1.000000
Indene+H	1.04447e-18	1.000000	1.04447e-18	1.000000
C2H2+PhCH2	8.37833e-19	1.000000	8.37833e-19	1.000000
rad23	1.66918e-19	1.000000	1.66918e-19	1.000000
rad3	5.31425e-21	1.000000	5.31425e-21	1.000000
PhCH2CCH+H	3.53909e-21	1.000000	3.53909e-21	1.000000
rad4	2.95277e-21	1.000000	2.95277e-21	1.000000
rad28	2.22580e-22	1.000000	2.22580e-22	1.000000
rad8	1.78408e-26	1.000000	1.78408e-26	1.000000
rad31	9.09713e-28	1.000000	9.09713e-28	1.000000
rad30	2.89806e-28	1.000000	2.89806e-28	1.000000
rad2	2.59921e-28	1.000000	2.59921e-28	1.000000
PAH7+H	6.62007e-29	1.000000	6.62007e-29	1.000000
rad1	5.00650e-29	1.000000	5.00650e-29	1.000000
rad15	4.26488e-29	1.000000	4.26488e-29	1.000000
PhCCH+CH3	4.32725e-30	1.000000	4.32725e-30	1.000000
rad14	4.79947e-31	1.000000	4.79947e-31	1.000000
rad38	4.63090e-31	1.000000	4.63090e-31	1.000000
rad46	1.80189e-32	1.000000	1.80189e-32	1.000000
rad60syn	5.94904e-34	1.000000	5.94904e-34	1.000000
PAH9+H	2.51417e-34	1.000000	2.51417e-34	1.000000
Ph+MeAc	1.64847e-34	1.000000	1.64847e-34	1.000000
rad35	1.45161e-34	1.000000	1.45161e-34	1.000000
rad60anti	6.81713e-35	1.000000	6.81713e-35	1.000000
rad26	1.91723e-35	1.000000	1.91723e-35	1.000000
rad10	1.11787e-36	1.000000	1.11787e-36	1.000000
rad39	7.32674e-37	1.000000	7.32674e-37	1.000000
rad27	1.36721e-39	1.000000	1.36721e-39	1.000000
PhCCCH3+H	2.75933e-40	1.000000	2.75933e-40	1.000000
PAH3+H	1.69017e-40	1.000000	1.69017e-40	1.000000
rad59	7.87261e-41	1.000000	7.87261e-41	1.000000
rad50	2.54679e-42	1.000000	2.54679e-42	1.000000
rad19syn	2.72943e-44	1.000000	2.72943e-44	1.000000

rad54	1.41434e-45	1.000000	1.41434e-45	1.000000
rad12	1.99852e-47	1.000000	1.99852e-47	1.000000
rad70	1.00315e-47	1.000000	1.00315e-47	1.000000
rad37	4.72092e-49	1.000000	4.72092e-49	1.000000
rad5	1.15508e-50	1.000000	1.15508e-50	1.000000
rad52	9.96575e-51	1.000000	9.96575e-51	1.000000
rad55	3.29794e-52	1.000000	3.29794e-52	1.000000
rad34	4.74717e-53	1.000000	4.74717e-53	1.000000
PhcycC3H3_A+H	7.93567e-54	1.000000	7.93567e-54	1.000000
rad51	5.43250e-55	1.000000	5.43250e-55	1.000000
rad58	2.37462e-57	1.000000	2.37462e-57	1.000000
rad62	2.35765e-58	1.000000	2.35765e-58	1.000000
PAH10+CH3	2.79550e-59	1.000000	2.79550e-59	1.000000
rad47	7.41722e-61	1.000000	7.41722e-61	1.000000
rad65	9.07032e-62	1.000000	9.07032e-62	1.000000
PAH1+H	4.23105e-63	1.000000	4.23105e-63	1.000000
rad43	2.86466e-64	1.000000	2.86466e-64	1.000000
rad42	5.06913e-69	1.000000	5.06913e-69	1.000000
rad41	4.72189e-76	1.000000	4.72189e-76	1.000000

100000000. Pa, 50.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	5.52690e-29	(1.00)	5.52690e-29	(1.00)
Formation of rad11	5.52459e-29	(1.000)	5.52459e-29	(1.000)
Formation of rad6	2.30840e-32	(0.000418)	2.30840e-32	(0.000418)
H-abstraction	3.35357e-38	(6.07e-10)	3.35357e-38	(6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.999581	0.999581	0.999581	0.999581
rad6	0.000418605	1.000000	0.000418605	1.000000
rad21	4.90728e-08	1.000000	4.90728e-08	1.000000
Benzene+2-propynyl	6.06773e-10	1.000000	6.06773e-10	1.000000
rad25	2.10820e-11	1.000000	2.10820e-11	1.000000
rad20	1.12575e-11	1.000000	1.12575e-11	1.000000
rad22	4.32758e-12	1.000000	4.32758e-12	1.000000
rad13	2.02084e-12	1.000000	2.02084e-12	1.000000
PhCHCCH2+H	1.30219e-12	1.000000	1.30219e-12	1.000000
rad7	6.30263e-13	1.000000	6.30263e-13	1.000000
rad24	5.11606e-13	1.000000	5.11606e-13	1.000000
rad9	6.97153e-14	1.000000	6.97153e-14	1.000000
rad33	1.84674e-14	1.000000	1.84674e-14	1.000000
rad45	5.68542e-15	1.000000	5.68542e-15	1.000000
Phenyl+Allene	1.69700e-15	1.000000	0.000000	1.000000
rad36	1.23901e-15	1.000000	1.23901e-15	1.000000
rad18	2.28831e-16	1.000000	2.28831e-16	1.000000
Indene+H	2.46764e-18	1.000000	2.46764e-18	1.000000
C2H2+PhCH2	2.02615e-18	1.000000	2.02615e-18	1.000000
rad23	3.95275e-19	1.000000	3.95275e-19	1.000000
rad3	6.75617e-20	1.000000	6.75617e-20	1.000000
rad4	4.32137e-20	1.000000	4.32137e-20	1.000000
PhCH2CCH+H	8.14238e-21	1.000000	8.14238e-21	1.000000
rad28	3.04225e-21	1.000000	3.04225e-21	1.000000
rad8	5.17016e-26	1.000000	5.17016e-26	1.000000
rad31	1.42941e-26	1.000000	1.42941e-26	1.000000
rad2	5.56923e-27	1.000000	5.56923e-27	1.000000
rad1	1.22771e-27	1.000000	1.22771e-27	1.000000
rad30	9.46026e-28	1.000000	9.46026e-28	1.000000
PAH7+H	2.23238e-28	1.000000	2.23238e-28	1.000000
rad15	1.40578e-28	1.000000	1.40578e-28	1.000000
PhCCH+CH3	8.24068e-29	1.000000	8.24068e-29	1.000000
rad14	8.81545e-30	1.000000	8.81545e-30	1.000000
rad38	1.91971e-30	1.000000	1.91971e-30	1.000000
rad46	6.06546e-32	1.000000	6.06546e-32	1.000000
Ph+MeAc	3.67845e-33	1.000000	3.67845e-33	1.000000
rad60syn	2.31429e-33	1.000000	2.31429e-33	1.000000
PAH9+H	8.27106e-34	1.000000	8.27106e-34	1.000000
rad35	4.75384e-34	1.000000	4.75384e-34	1.000000
rad60anti	2.88971e-34	1.000000	2.88971e-34	1.000000
rad26	7.89452e-35	1.000000	7.89452e-35	1.000000
rad10	3.40666e-35	1.000000	3.40666e-35	1.000000
rad39	1.52776e-35	1.000000	1.52776e-35	1.000000
rad27	4.32406e-38	1.000000	4.32406e-38	1.000000
PhCCCH3+H	9.35675e-39	1.000000	9.35675e-39	1.000000
PAH3+H	9.21496e-40	1.000000	9.21496e-40	1.000000
rad59	4.27166e-40	1.000000	4.27166e-40	1.000000
rad50	1.40990e-41	1.000000	1.40990e-41	1.000000
rad19syn	7.39592e-43	1.000000	7.39592e-43	1.000000

rad54	4.13653e-44	1.000000	4.13653e-44	1.000000
rad12	1.08981e-46	1.000000	1.08981e-46	1.000000
rad70	4.39386e-47	1.000000	4.39386e-47	1.000000
rad37	2.60394e-48	1.000000	2.60394e-48	1.000000
rad5	7.62480e-49	1.000000	7.62480e-49	1.000000
rad52	8.69363e-50	1.000000	8.69363e-50	1.000000
rad55	1.05926e-50	1.000000	1.05926e-50	1.000000
PhcycC3H3_A+H	2.45561e-52	1.000000	2.45561e-52	1.000000
rad34	2.28070e-52	1.000000	2.28070e-52	1.000000
rad51	5.38595e-54	1.000000	5.38595e-54	1.000000
rad58	1.88494e-56	1.000000	1.88494e-56	1.000000
rad62	1.24651e-56	1.000000	1.24651e-56	1.000000
PAH10+CH3	1.99049e-58	1.000000	1.99049e-58	1.000000
rad47	6.93698e-60	1.000000	6.93698e-60	1.000000
rad65	6.58995e-61	1.000000	6.58995e-61	1.000000
PAH1+H	1.84449e-61	1.000000	1.84449e-61	1.000000
rad43	2.55151e-62	1.000000	2.55151e-62	1.000000
rad42	3.23656e-67	1.000000	3.23656e-67	1.000000
rad41	5.34815e-74	1.000000	5.34815e-74	1.000000

100000000. Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.83429e-26 (1.00)	1.83429e-26 (1.00)
Formation of rad11	1.83139e-26 (0.998)	1.83139e-26 (0.998)
Formation of rad6	2.90471e-29 (0.00158)	2.90471e-29 (0.00158)
H-abstraction	5.71259e-34 (3.11e-08)	5.71259e-34 (3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.998415	0.998415	0.998415	0.998415
rad6	0.00158474	1.000000	0.00158474	1.000000
rad21	6.19381e-08	1.000000	6.19381e-08	1.000000
Benzene+2-propynyl	3.11432e-08	1.000000	3.11432e-08	1.000000
rad25	2.72902e-11	1.000000	2.72902e-11	1.000000
rad20	1.76747e-11	1.000000	1.76747e-11	1.000000
rad13	9.67492e-12	1.000000	9.67492e-12	1.000000
rad22	6.79453e-12	1.000000	6.79453e-12	1.000000
rad7	3.02445e-12	1.000000	3.02445e-12	1.000000
PhCHCCH2+H	1.75668e-12	1.000000	1.75668e-12	1.000000
rad24	8.05410e-13	1.000000	8.05410e-13	1.000000
rad9	9.57786e-14	1.000000	9.57786e-14	1.000000
rad33	8.91197e-14	1.000000	8.91197e-14	1.000000
rad45	1.10807e-14	1.000000	1.10807e-14	1.000000
Phenyl+Allene	3.16390e-15	1.000000	0.000000	1.000000
rad36	2.43388e-15	1.000000	2.43388e-15	1.000000
rad18	4.48208e-16	1.000000	4.48208e-16	1.000000
Indene+H	4.85203e-18	1.000000	4.85203e-18	1.000000
C2H2+PhCH2	4.09689e-18	1.000000	4.09689e-18	1.000000
rad23	7.79291e-19	1.000000	7.79291e-19	1.000000
rad3	3.98758e-19	1.000000	3.98758e-19	1.000000
rad4	2.77419e-19	1.000000	2.77419e-19	1.000000
PhCH2CCH+H	2.05266e-20	1.000000	2.05266e-20	1.000000
rad28	1.89663e-20	1.000000	1.89663e-20	1.000000
rad8	1.42308e-25	1.000000	1.42308e-25	1.000000
rad31	9.71881e-26	1.000000	9.71881e-26	1.000000
rad2	4.89315e-26	1.000000	4.89315e-26	1.000000
rad1	1.16620e-26	1.000000	1.16620e-26	1.000000
rad30	2.43736e-27	1.000000	2.43736e-27	1.000000
PAH7+H	8.92037e-28	1.000000	8.92037e-28	1.000000
PhCCH+CH3	6.86423e-28	1.000000	6.86423e-28	1.000000
rad15	3.66438e-28	1.000000	3.66438e-28	1.000000
rad14	7.02392e-29	1.000000	7.02392e-29	1.000000
rad38	5.91839e-30	1.000000	5.91839e-30	1.000000
rad46	1.62580e-31	1.000000	1.62580e-31	1.000000
Ph+MeAc	3.82425e-32	1.000000	3.82425e-32	1.000000
rad60syn	7.30303e-33	1.000000	7.30303e-33	1.000000
PAH9+H	2.15166e-33	1.000000	2.15166e-33	1.000000
rad35	1.22993e-33	1.000000	1.22993e-33	1.000000
rad60anti	1.00700e-33	1.000000	1.00700e-33	1.000000
rad10	3.99468e-34	1.000000	3.99468e-34	1.000000
rad26	3.11208e-34	1.000000	3.11208e-34	1.000000
rad39	1.41137e-34	1.000000	1.41137e-34	1.000000
rad27	5.29261e-37	1.000000	5.29261e-37	1.000000
PhCCCH3+H	1.23774e-37	1.000000	1.23774e-37	1.000000
PAH3+H	4.51944e-39	1.000000	4.51944e-39	1.000000
rad59	2.08184e-39	1.000000	2.08184e-39	1.000000
rad50	7.03886e-41	1.000000	7.03886e-41	1.000000
rad19syn	1.12592e-41	1.000000	1.12592e-41	1.000000

rad54	6.92723e-43	1.000000	6.92723e-43	1.000000
rad12	5.35799e-46	1.000000	5.35799e-46	1.000000
rad70	2.13003e-46	1.000000	2.13003e-46	1.000000
rad5	2.07526e-47	1.000000	2.07526e-47	1.000000
rad37	1.29970e-47	1.000000	1.29970e-47	1.000000
rad52	6.86156e-49	1.000000	6.86156e-49	1.000000
rad55	1.99333e-49	1.000000	1.99333e-49	1.000000
PhcycC3H3_A+H	4.40121e-51	1.000000	4.40121e-51	1.000000
rad34	1.23536e-51	1.000000	1.23536e-51	1.000000
rad51	5.00882e-53	1.000000	5.00882e-53	1.000000
rad62	3.41211e-55	1.000000	3.41211e-55	1.000000
rad58	1.47257e-55	1.000000	1.47257e-55	1.000000
PAH10+CH3	1.36585e-57	1.000000	1.36585e-57	1.000000
rad47	6.72510e-59	1.000000	6.72510e-59	1.000000
rad65	4.63854e-60	1.000000	4.63854e-60	1.000000
PAH1+H	4.45006e-60	1.000000	4.45006e-60	1.000000
rad43	1.04661e-60	1.000000	1.04661e-60	1.000000
rad42	1.13516e-65	1.000000	1.13516e-65	1.000000
rad41	3.03512e-72	1.000000	3.03512e-72	1.000000

100000000. Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17336e-24 (1.00)	1.17336e-24 (1.00)
Formation of rad11	1.16857e-24 (0.996)	1.16857e-24 (0.996)
Formation of rad6	4.79505e-27 (0.00409)	4.79505e-27 (0.00409)
H-abstraction	5.89821e-31 (5.03e-07)	5.89821e-31 (5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.995911	0.995911	0.995911	0.995911
rad6	0.00408801	1.000000	0.00408801	1.000000
Benzene+2-propynyl	5.02676e-07	1.000000	5.02676e-07	1.000000
rad21	7.52604e-08	1.000000	7.52604e-08	1.000000
rad25	3.41030e-11	1.000000	3.41030e-11	1.000000
rad13	3.04233e-11	1.000000	3.04233e-11	1.000000
rad20	2.57154e-11	1.000000	2.57154e-11	1.000000
rad22	9.88560e-12	1.000000	9.88560e-12	1.000000
rad7	9.53541e-12	1.000000	9.53541e-12	1.000000
PhCHCCH2+H	2.29816e-12	1.000000	2.29816e-12	1.000000
rad24	1.17583e-12	1.000000	1.17583e-12	1.000000
rad33	2.82767e-13	1.000000	2.82767e-13	1.000000
rad9	1.27823e-13	1.000000	1.27823e-13	1.000000
rad45	1.93221e-14	1.000000	1.93221e-14	1.000000
Phenyl+Allene	5.66892e-15	1.000000	0.000000	1.000000
rad36	4.21305e-15	1.000000	4.21305e-15	1.000000
rad18	7.83477e-16	1.000000	7.83477e-16	1.000000
Indene+H	8.51864e-18	1.000000	8.51864e-18	1.000000
C2H2+PhCH2	7.42397e-18	1.000000	7.42397e-18	1.000000
rad3	1.51378e-18	1.000000	1.51378e-18	1.000000
rad23	1.37221e-18	1.000000	1.37221e-18	1.000000
rad4	1.10876e-18	1.000000	1.10876e-18	1.000000
rad28	7.52597e-20	1.000000	7.52597e-20	1.000000
PhCH2CCH+H	5.99235e-20	1.000000	5.99235e-20	1.000000
rad31	4.07824e-25	1.000000	4.07824e-25	1.000000
rad8	3.95081e-25	1.000000	3.95081e-25	1.000000
rad2	2.56963e-25	1.000000	2.56963e-25	1.000000
rad1	6.41185e-26	1.000000	6.41185e-26	1.000000
rad30	5.43890e-27	1.000000	5.43890e-27	1.000000
PAH7+H	4.09622e-27	1.000000	4.09622e-27	1.000000
PhCCH+CH3	3.55804e-27	1.000000	3.55804e-27	1.000000
rad15	8.28665e-28	1.000000	8.28665e-28	1.000000
rad14	3.46437e-28	1.000000	3.46437e-28	1.000000
rad38	1.52501e-29	1.000000	1.52501e-29	1.000000
rad46	3.80288e-31	1.000000	3.80288e-31	1.000000
Ph+MeAc	2.55022e-31	1.000000	2.55022e-31	1.000000
rad60syn	2.03480e-32	1.000000	2.03480e-32	1.000000
PAH9+H	4.85733e-33	1.000000	4.85733e-33	1.000000
rad60anti	3.11420e-33	1.000000	3.11420e-33	1.000000
rad35	2.75934e-33	1.000000	2.75934e-33	1.000000
rad10	2.69796e-33	1.000000	2.69796e-33	1.000000
rad26	1.26681e-33	1.000000	1.26681e-33	1.000000
rad39	8.20883e-34	1.000000	8.20883e-34	1.000000
rad27	3.75009e-36	1.000000	3.75009e-36	1.000000
PhCCCH3+H	9.54393e-37	1.000000	9.54393e-37	1.000000
PAH3+H	2.20432e-38	1.000000	2.20432e-38	1.000000
rad59	1.00703e-38	1.000000	1.00703e-38	1.000000
rad50	3.47408e-40	1.000000	3.47408e-40	1.000000
rad19syn	1.36640e-40	1.000000	1.36640e-40	1.000000

rad54	9.39183e-42	1.00000	9.39183e-42	1.00000
rad12	2.62968e-45	1.00000	2.62968e-45	1.00000
rad70	1.20958e-45	1.00000	1.20958e-45	1.00000
rad5	3.48661e-46	1.00000	3.48661e-46	1.00000
rad37	6.50673e-47	1.00000	6.50673e-47	1.00000
rad52	5.51878e-48	1.00000	5.51878e-48	1.00000
rad55	3.09862e-48	1.00000	3.09862e-48	1.00000
PhcycC3H3_A+H	6.45302e-50	1.00000	6.45302e-50	1.00000
rad34	7.93937e-51	1.00000	7.93937e-51	1.00000
rad51	4.92157e-52	1.00000	4.92157e-52	1.00000
rad62	7.12577e-54	1.00000	7.12577e-54	1.00000
rad58	1.24930e-54	1.00000	1.24930e-54	1.00000
PAH10+CH3	1.00170e-56	1.00000	1.00170e-56	1.00000
rad47	7.42640e-58	1.00000	7.42640e-58	1.00000
PAH1+H	8.54302e-59	1.00000	8.54302e-59	1.00000
rad65	3.51638e-59	1.00000	3.51638e-59	1.00000
rad43	3.02927e-59	1.00000	3.02927e-59	1.00000
rad42	3.22863e-64	1.00000	3.22863e-64	1.00000
rad41	1.32773e-70	1.00000	1.32773e-70	1.00000

100000000. Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.68112e-23 (1.00)	2.68112e-23 (1.00)
Formation of rad11	2.65890e-23 (0.992)	2.65890e-23 (0.992)
Formation of rad6	2.22189e-25 (0.00829)	2.22189e-25 (0.00829)
H-abstraction	1.05871e-28 (3.95e-06)	1.05871e-28 (3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.991707	0.991707	0.991707	0.991707
rad6	0.00828882	0.999996	0.00828882	0.999996
Benzene+2-propynyl	3.94877e-06	1.00000	3.94877e-06	1.00000
rad21	8.90921e-08	1.00000	8.90921e-08	1.00000
rad13	7.34087e-11	1.00000	7.34087e-11	1.00000
rad25	4.16171e-11	1.00000	4.16171e-11	1.00000
rad20	3.55335e-11	1.00000	3.55335e-11	1.00000
rad7	2.30738e-11	1.00000	2.30738e-11	1.00000
rad22	1.36598e-11	1.00000	1.36598e-11	1.00000
PhCHCCH2+H	2.94782e-12	1.00000	2.94782e-12	1.00000
rad24	1.63137e-12	1.00000	1.63137e-12	1.00000
rad33	6.89027e-13	1.00000	6.89027e-13	1.00000
rad9	1.67468e-13	1.00000	1.67468e-13	1.00000
rad45	3.12403e-14	1.00000	3.12403e-14	1.00000
Phenyl+Allene	9.83799e-15	1.00000	0.00000	1.00000
rad36	6.71793e-15	1.00000	6.71793e-15	1.00000
rad18	1.26863e-15	1.00000	1.26863e-15	1.00000
Indene+H	1.38613e-17	1.00000	1.38613e-17	1.00000
C2H2+PhCH2	1.25114e-17	1.00000	1.25114e-17	1.00000
rad3	4.34933e-18	1.00000	4.34933e-18	1.00000
rad4	3.28871e-18	1.00000	3.28871e-18	1.00000
rad23	2.23991e-18	1.00000	2.23991e-18	1.00000
rad28	2.24624e-19	1.00000	2.24624e-19	1.00000
PhCH2CCH+H	2.11849e-19	1.00000	2.11849e-19	1.00000
rad31	1.26177e-24	1.00000	1.26177e-24	1.00000
rad8	1.14066e-24	1.00000	1.14066e-24	1.00000
rad2	9.74331e-25	1.00000	9.74331e-25	1.00000
rad1	2.49623e-25	1.00000	2.49623e-25	1.00000
PAH7+H	1.89768e-26	1.00000	1.89768e-26	1.00000
PhCCH+CH3	1.36974e-26	1.00000	1.36974e-26	1.00000
rad30	1.10503e-26	1.00000	1.10503e-26	1.00000
rad15	1.70900e-27	1.00000	1.70900e-27	1.00000
rad14	1.26412e-27	1.00000	1.26412e-27	1.00000
rad38	3.49583e-29	1.00000	3.49583e-29	1.00000
Ph+MeAc	1.28225e-30	1.00000	1.28225e-30	1.00000
rad46	8.15903e-31	1.00000	8.15903e-31	1.00000
rad60syn	5.24963e-32	1.00000	5.24963e-32	1.00000
rad10	1.28591e-32	1.00000	1.28591e-32	1.00000
PAH9+H	1.00060e-32	1.00000	1.00060e-32	1.00000
rad60anti	8.91335e-33	1.00000	8.91335e-33	1.00000
rad35	5.64570e-33	1.00000	5.64570e-33	1.00000
rad26	5.62721e-33	1.00000	5.62721e-33	1.00000
rad39	3.58191e-33	1.00000	3.58191e-33	1.00000
rad27	1.88385e-35	1.00000	1.88385e-35	1.00000
PhCCCH3+H	5.25027e-36	1.00000	5.25027e-36	1.00000
PAH3+H	1.15024e-37	1.00000	1.15024e-37	1.00000
rad59	5.19386e-38	1.00000	5.19386e-38	1.00000
rad50	1.79859e-39	1.00000	1.79859e-39	1.00000
rad19syn	1.67057e-39	1.00000	1.67057e-39	1.00000

rad54	1.30155e-40	1.000000	1.30155e-40	1.000000
rad12	1.38654e-44	1.000000	1.38654e-44	1.000000
rad70	8.85754e-45	1.000000	8.85754e-45	1.000000
rad5	4.38952e-45	1.000000	4.38952e-45	1.000000
rad37	3.52948e-46	1.000000	3.52948e-46	1.000000
rad55	5.04924e-47	1.000000	5.04924e-47	1.000000
rad52	4.95835e-47	1.000000	4.95835e-47	1.000000
PhcycC3H3_A+H	9.86760e-49	1.000000	9.86760e-49	1.000000
rad34	6.64331e-50	1.000000	6.64331e-50	1.000000
rad51	5.65277e-51	1.000000	5.65277e-51	1.000000
rad62	1.44764e-52	1.000000	1.44764e-52	1.000000
rad58	1.28175e-53	1.000000	1.28175e-53	1.000000
PAH10+CH3	8.73484e-56	1.000000	8.73484e-56	1.000000
rad47	1.03427e-56	1.000000	1.03427e-56	1.000000
PAH1+H	1.67404e-57	1.000000	1.67404e-57	1.000000
rad43	7.92567e-58	1.000000	7.92567e-58	1.000000
rad65	3.21763e-58	1.000000	3.21763e-58	1.000000
rad42	9.67805e-63	1.000000	9.67805e-63	1.000000
rad41	5.88662e-69	1.000000	5.88662e-69	1.000000

100000000. Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.08379e-22 (1.00)	3.08379e-22 (1.00)
Formation of rad11	3.03962e-22 (0.986)	3.03962e-22 (0.986)
Formation of rad6	4.41076e-24 (0.0143)	4.41076e-24 (0.0143)
H-abstraction	5.92916e-27 (1.92e-05)	5.92916e-27 (1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.985676	0.985676	0.985676	0.985676
rad6	0.0143049	0.999981	0.0143049	0.999981
Benzene+2-propynyl	1.92269e-05	1.00000	1.92269e-05	1.00000
rad21	1.03501e-07	1.00000	1.03501e-07	1.00000
rad13	1.48237e-10	1.00000	1.48237e-10	1.00000
rad25	4.99570e-11	1.00000	4.99570e-11	1.00000
rad20	4.73309e-11	1.00000	4.73309e-11	1.00000
rad7	4.67363e-11	1.00000	4.67363e-11	1.00000
rad22	1.81950e-11	1.00000	1.81950e-11	1.00000
PhCHCCH2+H	3.73417e-12	1.00000	3.73417e-12	1.00000
rad24	2.18318e-12	1.00000	2.18318e-12	1.00000
rad33	1.40612e-12	1.00000	1.40612e-12	1.00000
rad9	2.16917e-13	1.00000	2.16917e-13	1.00000
rad45	4.78626e-14	1.00000	4.78626e-14	1.00000
Phenyl+Allene	1.66586e-14	1.00000	0.00000	1.00000
rad36	1.01251e-14	1.00000	1.01251e-14	1.00000
rad18	1.94620e-15	1.00000	1.94620e-15	1.00000
Indene+H	2.13808e-17	1.00000	2.13808e-17	1.00000
C2H2+PhCH2	2.00597e-17	1.00000	2.00597e-17	1.00000
rad3	1.03560e-17	1.00000	1.03560e-17	1.00000
rad4	7.98604e-18	1.00000	7.98604e-18	1.00000
rad23	3.46674e-18	1.00000	3.46674e-18	1.00000
PhCH2CCH+H	8.51899e-19	1.00000	8.51899e-19	1.00000
rad28	5.53648e-19	1.00000	5.53648e-19	1.00000
rad8	3.38272e-24	1.00000	3.38272e-24	1.00000
rad31	3.17958e-24	1.00000	3.17958e-24	1.00000
rad2	2.96613e-24	1.00000	2.96613e-24	1.00000
rad1	7.70696e-25	1.00000	7.70696e-25	1.00000
PAH7+H	8.25515e-26	1.00000	8.25515e-26	1.00000
PhCCH+CH3	4.32643e-26	1.00000	4.32643e-26	1.00000
rad30	2.10809e-26	1.00000	2.10809e-26	1.00000
rad14	3.77192e-27	1.00000	3.77192e-27	1.00000
rad15	3.31537e-27	1.00000	3.31537e-27	1.00000
rad38	7.40647e-29	1.00000	7.40647e-29	1.00000
Ph+MeAc	5.33347e-30	1.00000	5.33347e-30	1.00000
rad46	1.65652e-30	1.00000	1.65652e-30	1.00000
rad60syn	1.29217e-31	1.00000	1.29217e-31	1.00000
rad10	4.85196e-32	1.00000	4.85196e-32	1.00000
rad26	2.77252e-32	1.00000	2.77252e-32	1.00000
rad60anti	2.42413e-32	1.00000	2.42413e-32	1.00000
PAH9+H	1.94067e-32	1.00000	1.94067e-32	1.00000
rad39	1.29430e-32	1.00000	1.29430e-32	1.00000
rad35	1.08741e-32	1.00000	1.08741e-32	1.00000
rad27	7.52615e-35	1.00000	7.52615e-35	1.00000
PhCCCH3+H	2.31133e-35	1.00000	2.31133e-35	1.00000
PAH3+H	6.69033e-37	1.00000	6.69033e-37	1.00000
rad59	2.96717e-37	1.00000	2.96717e-37	1.00000
rad19syn	2.54596e-38	1.00000	2.54596e-38	1.00000
rad50	1.00119e-38	1.00000	1.00119e-38	1.00000

rad54	2.31230e-39	1.00000	2.31230e-39	1.00000
rad70	9.91075e-44	1.00000	9.91075e-44	1.00000
rad12	8.14362e-44	1.00000	8.14362e-44	1.00000
rad5	4.56876e-44	1.00000	4.56876e-44	1.00000
rad37	2.16954e-45	1.00000	2.16954e-45	1.00000
rad55	1.10989e-45	1.00000	1.10989e-45	1.00000
rad52	5.36347e-46	1.00000	5.36347e-46	1.00000
PhcycC3H3_A+H	2.05700e-47	1.00000	2.05700e-47	1.00000
rad34	8.58097e-49	1.00000	8.58097e-49	1.00000
rad51	8.37911e-50	1.00000	8.37911e-50	1.00000
rad62	3.49924e-51	1.00000	3.49924e-51	1.00000
rad58	1.84422e-52	1.00000	1.84422e-52	1.00000
PAH10+CH3	1.03523e-54	1.00000	1.03523e-54	1.00000
rad47	2.06313e-55	1.00000	2.06313e-55	1.00000
PAH1+H	4.35335e-56	1.00000	4.35335e-56	1.00000
rad43	2.22883e-56	1.00000	2.22883e-56	1.00000
rad65	4.14520e-57	1.00000	4.14520e-57	1.00000
rad42	3.91085e-61	1.00000	3.91085e-61	1.00000
rad41	3.33418e-67	1.00000	3.33418e-67	1.00000

100000000. Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14498e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.977887	0.977887	0.977887	0.977887
rad6	0.0220450	0.999932	0.0220450	0.999932
Benzene+2-propynyl	6.70630e-05	1.00000	6.70630e-05	1.00000
rad21	1.18582e-07	1.00000	1.18582e-07	1.00000
rad13	2.64005e-10	1.00000	2.64005e-10	1.00000
rad7	8.35061e-11	1.00000	8.35061e-11	1.00000
rad20	6.13745e-11	1.00000	6.13745e-11	1.00000
rad25	5.92850e-11	1.00000	5.92850e-11	1.00000
rad22	2.35931e-11	1.00000	2.35931e-11	1.00000
PhCHCCH2+H	4.69559e-12	1.00000	4.69559e-12	1.00000
rad24	2.84604e-12	1.00000	2.84604e-12	1.00000
rad33	2.53245e-12	1.00000	2.53245e-12	1.00000
rad9	2.79170e-13	1.00000	2.79170e-13	1.00000
rad45	7.04973e-14	1.00000	7.04973e-14	1.00000
Phenyl+Allene	2.76747e-14	1.00000	0.00000	1.00000
rad36	1.46617e-14	1.00000	1.46617e-14	1.00000
rad18	2.87091e-15	1.00000	2.87091e-15	1.00000
Indene+H	3.17325e-17	1.00000	3.17325e-17	1.00000
C2H2+PhCH2	3.10659e-17	1.00000	3.10659e-17	1.00000
rad3	2.15930e-17	1.00000	2.15930e-17	1.00000
rad4	1.68509e-17	1.00000	1.68509e-17	1.00000
rad23	5.16377e-18	1.00000	5.16377e-18	1.00000
PhCH2CCH+H	3.41399e-18	1.00000	3.41399e-18	1.00000
rad28	1.19283e-18	1.00000	1.19283e-18	1.00000
rad8	9.94540e-24	1.00000	9.94540e-24	1.00000
rad2	7.73686e-24	1.00000	7.73686e-24	1.00000
rad31	6.93415e-24	1.00000	6.93415e-24	1.00000
rad1	2.02253e-24	1.00000	2.02253e-24	1.00000
PAH7+H	3.32670e-25	1.00000	3.32670e-25	1.00000
PhCCH+CH3	1.19220e-25	1.00000	1.19220e-25	1.00000
rad30	3.85522e-26	1.00000	3.85522e-26	1.00000
rad14	9.78706e-27	1.00000	9.78706e-27	1.00000
rad15	6.17730e-27	1.00000	6.17730e-27	1.00000
rad38	1.48761e-28	1.00000	1.48761e-28	1.00000
Ph+MeAc	1.94536e-29	1.00000	1.94536e-29	1.00000
rad46	3.25068e-30	1.00000	3.25068e-30	1.00000
rad60syn	3.09414e-31	1.00000	3.09414e-31	1.00000
rad10	1.55614e-31	1.00000	1.55614e-31	1.00000
rad26	1.44831e-31	1.00000	1.44831e-31	1.00000
rad60anti	6.37396e-32	1.00000	6.37396e-32	1.00000
rad39	4.11729e-32	1.00000	4.11729e-32	1.00000
PAH9+H	3.62010e-32	1.00000	3.62010e-32	1.00000
rad35	2.01624e-32	1.00000	2.01624e-32	1.00000
rad27	2.56825e-34	1.00000	2.56825e-34	1.00000
PhCCCH3+H	8.74840e-35	1.00000	8.74840e-35	1.00000
PAH3+H	4.26341e-36	1.00000	4.26341e-36	1.00000
rad59	1.83991e-36	1.00000	1.83991e-36	1.00000
rad19syn	5.27071e-37	1.00000	5.27071e-37	1.00000
rad54	6.20193e-38	1.00000	6.20193e-38	1.00000

rad50	5.87013e-38	1.000000	5.87013e-38	1.000000
rad70	2.11038e-42	1.000000	2.11038e-42	1.000000
rad12	5.19962e-43	1.000000	5.19962e-43	1.000000
rad5	4.12880e-43	1.000000	4.12880e-43	1.000000
rad55	4.26756e-44	1.000000	4.26756e-44	1.000000
rad37	1.49006e-44	1.000000	1.49006e-44	1.000000
rad52	7.16820e-45	1.000000	7.16820e-45	1.000000
PhcycC3H3_A+H	7.85030e-46	1.000000	7.85030e-46	1.000000
rad34	2.15006e-47	1.000000	2.15006e-47	1.000000
rad51	1.70753e-48	1.000000	1.70753e-48	1.000000
rad62	1.14724e-49	1.000000	1.14724e-49	1.000000
rad58	4.38076e-51	1.000000	4.38076e-51	1.000000
PAH10+CH3	1.88785e-53	1.000000	1.88785e-53	1.000000
rad47	6.60354e-54	1.000000	6.60354e-54	1.000000
PAH1+H	1.99073e-54	1.000000	1.99073e-54	1.000000
rad43	7.32309e-55	1.000000	7.32309e-55	1.000000
rad65	8.86538e-56	1.000000	8.86538e-56	1.000000
rad42	2.61757e-59	1.000000	2.61757e-59	1.000000
rad41	2.85662e-65	1.000000	2.85662e-65	1.000000

100000000. Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06527e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44008e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.968537	0.968537	0.968537	0.968537
rad6	0.0312797	0.999817	0.0312797	0.999817
Benzene+2-propynyl	0.000183695	1.00000	0.000183695	1.00000
rad21	1.34463e-07	1.00000	1.34463e-07	1.00000
rad13	4.28914e-10	1.00000	4.28914e-10	1.00000
rad7	1.36132e-10	1.00000	1.36132e-10	1.00000
rad20	7.80145e-11	1.00000	7.80145e-11	1.00000
rad25	6.98085e-11	1.00000	6.98085e-11	1.00000
rad22	2.99889e-11	1.00000	2.99889e-11	1.00000
PhCHCCH2+H	5.88329e-12	1.00000	5.88329e-12	1.00000
rad33	4.16323e-12	1.00000	4.16323e-12	1.00000
rad24	3.63933e-12	1.00000	3.63933e-12	1.00000
rad9	3.58292e-13	1.00000	3.58292e-13	1.00000
rad45	1.00847e-13	1.00000	1.00847e-13	1.00000
Phenyl+Allene	4.52837e-14	1.00000	0.00000	1.00000
rad36	2.06257e-14	1.00000	2.06257e-14	1.00000
rad18	4.11465e-15	1.00000	4.11465e-15	1.00000
C2H2+PhCH2	4.69736e-17	1.00000	4.69736e-17	1.00000
Indene+H	4.57918e-17	1.00000	4.57918e-17	1.00000
rad3	4.08612e-17	1.00000	4.08612e-17	1.00000
rad4	3.21085e-17	1.00000	3.21085e-17	1.00000
PhCH2CCH+H	1.25359e-17	1.00000	1.25359e-17	1.00000
rad23	7.48027e-18	1.00000	7.48027e-18	1.00000
rad28	2.33097e-18	1.00000	2.33097e-18	1.00000
rad8	2.81847e-23	1.00000	2.81847e-23	1.00000
rad2	1.80445e-23	1.00000	1.80445e-23	1.00000
rad31	1.36140e-23	1.00000	1.36140e-23	1.00000
rad1	4.72087e-24	1.00000	4.72087e-24	1.00000
PAH7+H	1.24354e-24	1.00000	1.24354e-24	1.00000
PhCCH+CH3	2.98495e-25	1.00000	2.98495e-25	1.00000
rad30	6.85882e-26	1.00000	6.85882e-26	1.00000
rad14	2.29950e-26	1.00000	2.29950e-26	1.00000
rad15	1.12199e-26	1.00000	1.12199e-26	1.00000
rad38	2.88383e-28	1.00000	2.88383e-28	1.00000
Ph+MeAc	6.46827e-29	1.00000	6.46827e-29	1.00000
rad46	6.25935e-30	1.00000	6.25935e-30	1.00000
rad26	7.44030e-31	1.00000	7.44030e-31	1.00000
rad60syn	7.30017e-31	1.00000	7.30017e-31	1.00000
rad10	4.44760e-31	1.00000	4.44760e-31	1.00000
rad60anti	1.63934e-31	1.00000	1.63934e-31	1.00000
rad39	1.20079e-31	1.00000	1.20079e-31	1.00000
PAH9+H	6.59537e-32	1.00000	6.59537e-32	1.00000
rad35	3.66318e-32	1.00000	3.66318e-32	1.00000
rad27	7.85143e-34	1.00000	7.85143e-34	1.00000
PhCCCH3+H	2.98735e-34	1.00000	2.98735e-34	1.00000
PAH3+H	2.78076e-35	1.00000	2.78076e-35	1.00000
rad19syn	1.19562e-35	1.00000	1.19562e-35	1.00000
rad59	1.15727e-35	1.00000	1.15727e-35	1.00000
rad54	2.09877e-36	1.00000	2.09877e-36	1.00000

rad50	3.44772e-37	1.00000	3.44772e-37	1.00000
rad70	8.91678e-41	1.00000	8.91678e-41	1.00000
rad12	3.38709e-42	1.00000	3.38709e-42	1.00000
rad5	3.32238e-42	1.00000	3.32238e-42	1.00000
rad55	2.87079e-42	1.00000	2.87079e-42	1.00000
rad52	1.10539e-43	1.00000	1.10539e-43	1.00000
rad37	1.07555e-43	1.00000	1.07555e-43	1.00000
PhcycC3H3_A+H	5.57289e-44	1.00000	5.57289e-44	1.00000
rad34	1.10558e-45	1.00000	1.10558e-45	1.00000
rad51	4.56635e-47	1.00000	4.56635e-47	1.00000
rad62	4.70577e-48	1.00000	4.70577e-48	1.00000
rad58	1.76457e-49	1.00000	1.76457e-49	1.00000
PAH10+CH3	5.16356e-52	1.00000	5.16356e-52	1.00000
rad47	3.33706e-52	1.00000	3.33706e-52	1.00000
PAH1+H	1.65225e-52	1.00000	1.65225e-52	1.00000
rad43	2.64238e-53	1.00000	2.64238e-53	1.00000
rad65	3.20290e-54	1.00000	3.20290e-54	1.00000
rad42	2.81870e-57	1.00000	2.81870e-57	1.00000
rad41	3.55350e-63	1.00000	3.55350e-63	1.00000

100000000. Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.957869	0.957869	0.957869	0.957869
rad6	0.0417107	0.999580	0.0417107	0.999580
Benzene+2-propynyl	0.000420064	1.00000	0.000420064	1.00000
rad21	1.51303e-07	1.00000	1.51303e-07	1.00000
rad13	6.50320e-10	1.00000	6.50320e-10	1.00000
rad7	2.07147e-10	1.00000	2.07147e-10	1.00000
rad20	9.77034e-11	1.00000	9.77034e-11	1.00000
rad25	8.17865e-11	1.00000	8.17865e-11	1.00000
rad22	3.75559e-11	1.00000	3.75559e-11	1.00000
PhCHCCH2+H	7.36541e-12	1.00000	7.36541e-12	1.00000
rad33	6.39130e-12	1.00000	6.39130e-12	1.00000
rad24	4.58824e-12	1.00000	4.58824e-12	1.00000
rad9	4.59770e-13	1.00000	4.59770e-13	1.00000
rad45	1.41162e-13	1.00000	1.41162e-13	1.00000
Phenyl+Allene	7.31919e-14	1.00000	0.00000	1.00000
rad36	2.84111e-14	1.00000	2.84111e-14	1.00000
rad18	5.77326e-15	1.00000	5.77326e-15	1.00000
rad3	7.19138e-17	1.00000	7.19138e-17	1.00000
C2H2+PhCH2	6.98990e-17	1.00000	6.98990e-17	1.00000
Indene+H	6.47445e-17	1.00000	6.47445e-17	1.00000
rad4	5.67154e-17	1.00000	5.67154e-17	1.00000
PhCH2CCH+H	4.11919e-17	1.00000	4.11919e-17	1.00000
rad23	1.06195e-17	1.00000	1.06195e-17	1.00000
rad28	4.23719e-18	1.00000	4.23719e-18	1.00000
rad8	7.60848e-23	1.00000	7.60848e-23	1.00000
rad2	3.87550e-23	1.00000	3.87550e-23	1.00000
rad31	2.47210e-23	1.00000	2.47210e-23	1.00000
rad1	1.01119e-23	1.00000	1.01119e-23	1.00000
PAH7+H	4.31962e-24	1.00000	4.31962e-24	1.00000
PhCCH+CH3	6.98507e-25	1.00000	6.98507e-25	1.00000
rad30	1.20013e-25	1.00000	1.20013e-25	1.00000
rad14	5.03154e-26	1.00000	5.03154e-26	1.00000
rad15	2.00856e-26	1.00000	2.00856e-26	1.00000
rad38	5.46726e-28	1.00000	5.46726e-28	1.00000
Ph+MeAc	2.01334e-28	1.00000	2.01334e-28	1.00000
rad46	1.19584e-29	1.00000	1.19584e-29	1.00000
rad26	3.55998e-30	1.00000	3.55998e-30	1.00000
rad60syn	1.71132e-30	1.00000	1.71132e-30	1.00000
rad10	1.17095e-30	1.00000	1.17095e-30	1.00000
rad60anti	4.15715e-31	1.00000	4.15715e-31	1.00000
rad39	3.30191e-31	1.00000	3.30191e-31	1.00000
PAH9+H	1.18727e-31	1.00000	1.18727e-31	1.00000
rad35	6.62693e-32	1.00000	6.62693e-32	1.00000
rad27	2.22370e-33	1.00000	2.22370e-33	1.00000
PhCCCH3+H	9.51950e-34	1.00000	9.51950e-34	1.00000
rad19syn	2.28705e-34	1.00000	2.28705e-34	1.00000
PAH3+H	1.73409e-34	1.00000	1.73409e-34	1.00000
rad59	6.91973e-35	1.00000	6.91973e-35	1.00000
rad54	6.28905e-35	1.00000	6.28905e-35	1.00000

rad50	1.93780e-36	1.00000	1.93780e-36	1.00000
rad70	5.94364e-39	1.00000	5.94364e-39	1.00000
rad55	2.44501e-40	1.00000	2.44501e-40	1.00000
rad5	2.41820e-41	1.00000	2.41820e-41	1.00000
rad12	2.13455e-41	1.00000	2.13455e-41	1.00000
PhcycC3H3_A+H	5.23998e-42	1.00000	5.23998e-42	1.00000
rad52	1.72128e-42	1.00000	1.72128e-42	1.00000
rad37	7.68588e-43	1.00000	7.68588e-43	1.00000
rad34	9.46873e-44	1.00000	9.46873e-44	1.00000
rad51	1.35464e-45	1.00000	1.35464e-45	1.00000
rad62	1.87881e-46	1.00000	1.87881e-46	1.00000
rad58	1.00185e-47	1.00000	1.00185e-47	1.00000
rad47	2.24371e-50	1.00000	2.24371e-50	1.00000
PAH1+H	1.88173e-50	1.00000	1.88173e-50	1.00000
PAH10+CH3	1.67376e-50	1.00000	1.67376e-50	1.00000
rad43	9.02936e-52	1.00000	9.02936e-52	1.00000
rad65	1.58821e-52	1.00000	1.58821e-52	1.00000
rad42	3.79836e-55	1.00000	3.79836e-55	1.00000
rad41	5.10534e-61	1.00000	5.10534e-61	1.00000

100000000. Pa, 130.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.33719e-19	(1.00)	1.33719e-19	(1.00)
Formation of rad11	1.26517e-19	(0.946)	1.26517e-19	(0.946)
Formation of rad6	7.08974e-21	(0.0530)	7.08974e-21	(0.0530)
H-abstraction	1.11864e-22	(0.000837)	1.11864e-22	(0.000837)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.946141	0.946141	0.946141	0.946141
rad6	0.0530228	0.999164	0.0530228	0.999164
Benzene+2-propynyl	0.000836559	1.00000	0.000836559	1.00000
rad21	1.69291e-07	1.00000	1.69291e-07	1.00000
rad13	9.35047e-10	1.00000	9.35047e-10	1.00000
rad7	2.98970e-10	1.00000	2.98970e-10	1.00000
rad20	1.21021e-10	1.00000	1.21021e-10	1.00000
rad25	9.55402e-11	1.00000	9.55402e-11	1.00000
rad22	4.65162e-11	1.00000	4.65162e-11	1.00000
rad33	9.31066e-12	1.00000	9.31066e-12	1.00000
PhCHCCH2+H	9.23250e-12	1.00000	9.23250e-12	1.00000
rad24	5.72522e-12	1.00000	5.72522e-12	1.00000
rad9	5.91012e-13	1.00000	5.91012e-13	1.00000
rad45	1.94437e-13	1.00000	1.94437e-13	1.00000
Phenyl+Allene	1.17112e-13	1.00000	0.00000	1.00000
rad36	3.85436e-14	1.00000	3.85436e-14	1.00000
rad18	7.97562e-15	1.00000	7.97562e-15	1.00000
PhCH2CCH+H	1.21724e-16	1.00000	1.21724e-16	1.00000
rad3	1.19780e-16	1.00000	1.19780e-16	1.00000
C2H2+PhCH2	1.02981e-16	1.00000	1.02981e-16	1.00000
rad4	9.46051e-17	1.00000	9.46051e-17	1.00000
Indene+H	9.02146e-17	1.00000	9.02146e-17	1.00000
rad23	1.48618e-17	1.00000	1.48618e-17	1.00000
rad28	7.29488e-18	1.00000	7.29488e-18	1.00000
rad8	1.95501e-22	1.00000	1.95501e-22	1.00000
rad2	7.82921e-23	1.00000	7.82921e-23	1.00000
rad31	4.23228e-23	1.00000	4.23228e-23	1.00000
rad1	2.03257e-23	1.00000	2.03257e-23	1.00000
PAH7+H	1.39851e-23	1.00000	1.39851e-23	1.00000
PhCCH+CH3	1.55920e-24	1.00000	1.55920e-24	1.00000
rad30	2.08256e-25	1.00000	2.08256e-25	1.00000
rad14	1.04631e-25	1.00000	1.04631e-25	1.00000
rad15	3.57347e-26	1.00000	3.57347e-26	1.00000
rad38	1.02382e-27	1.00000	1.02382e-27	1.00000
Ph+MeAc	5.97528e-28	1.00000	5.97528e-28	1.00000
rad46	2.28551e-29	1.00000	2.28551e-29	1.00000
rad26	1.55313e-29	1.00000	1.55313e-29	1.00000
rad60syn	4.00732e-30	1.00000	4.00732e-30	1.00000
rad10	2.90909e-30	1.00000	2.90909e-30	1.00000
rad60anti	1.04503e-30	1.00000	1.04503e-30	1.00000
rad39	8.73066e-31	1.00000	8.73066e-31	1.00000
PAH9+H	2.13096e-31	1.00000	2.13096e-31	1.00000
rad35	1.21349e-31	1.00000	1.21349e-31	1.00000
rad27	5.97880e-33	1.00000	5.97880e-33	1.00000
rad19syn	3.33292e-33	1.00000	3.33292e-33	1.00000
PhCCCH3+H	2.90035e-33	1.00000	2.90035e-33	1.00000
rad54	1.40132e-33	1.00000	1.40132e-33	1.00000
PAH3+H	9.95840e-34	1.00000	9.95840e-34	1.00000
rad59	3.80142e-34	1.00000	3.80142e-34	1.00000

rad50	1.01700e-35	1.00000	1.01700e-35	1.00000
rad70	4.53971e-37	1.00000	4.53971e-37	1.00000
rad55	1.45536e-38	1.00000	1.45536e-38	1.00000
PhcycC3H3_A+H	3.52083e-40	1.00000	3.52083e-40	1.00000
rad5	1.61178e-40	1.00000	1.61178e-40	1.00000
rad12	1.26959e-40	1.00000	1.26959e-40	1.00000
rad52	2.42243e-41	1.00000	2.42243e-41	1.00000
rad34	1.03856e-41	1.00000	1.03856e-41	1.00000
rad37	5.25589e-42	1.00000	5.25589e-42	1.00000
rad51	3.69811e-44	1.00000	3.69811e-44	1.00000
rad62	6.05517e-45	1.00000	6.05517e-45	1.00000
rad58	6.09687e-46	1.00000	6.09687e-46	1.00000
PAH1+H	1.97742e-48	1.00000	1.97742e-48	1.00000
rad47	1.61537e-48	1.00000	1.61537e-48	1.00000
PAH10+CH3	4.99465e-49	1.00000	4.99465e-49	1.00000
rad43	2.60681e-50	1.00000	2.60681e-50	1.00000
rad65	7.80896e-51	1.00000	7.80896e-51	1.00000
rad42	4.64465e-53	1.00000	4.64465e-53	1.00000
rad41	6.40142e-59	1.00000	6.40142e-59	1.00000

100000000. Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.59582e-19 (1.00)	3.59582e-19 (1.00)
Formation of rad11	3.35703e-19 (0.934)	3.35703e-19 (0.934)
Formation of rad6	2.33415e-20 (0.0649)	2.33415e-20 (0.0649)
H-abstraction	5.37685e-22 (0.00150)	5.37685e-22 (0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.933588	0.933588	0.933588	0.933588
rad6	0.0649162	0.998504	0.0649162	0.998504
Benzene+2-propynyl	0.00149531	0.999999	0.00149531	0.999999
rad21	1.88650e-07	1.000000	1.88650e-07	1.000000
rad13	1.28982e-09	1.000000	1.28982e-09	1.000000
rad7	4.14047e-10	1.000000	4.14047e-10	1.000000
rad20	1.48703e-10	1.000000	1.48703e-10	1.000000
rad25	1.11465e-10	1.000000	1.11465e-10	1.000000
rad22	5.71524e-11	1.000000	5.71524e-11	1.000000
rad33	1.30214e-11	1.000000	1.30214e-11	1.000000
PhCHCCH2+H	1.16051e-11	1.000000	1.16051e-11	1.000000
rad24	7.09182e-12	1.000000	7.09182e-12	1.000000
rad9	7.62043e-13	1.000000	7.62043e-13	1.000000
rad45	2.64705e-13	1.000000	2.64705e-13	1.000000
Phenyl+Allene	1.85818e-13	1.000000	0.000000	1.000000
rad36	5.17283e-14	1.000000	5.17283e-14	1.000000
rad18	1.08966e-14	1.000000	1.08966e-14	1.000000
PhCH2CCH+H	3.27884e-16	1.000000	3.27884e-16	1.000000
rad3	1.91246e-16	1.000000	1.91246e-16	1.000000
rad4	1.51060e-16	1.000000	1.51060e-16	1.000000
C2H2+PhCH2	1.50918e-16	1.000000	1.50918e-16	1.000000
Indene+H	1.24446e-16	1.000000	1.24446e-16	1.000000
rad23	2.05965e-17	1.000000	2.05965e-17	1.000000
rad28	1.20531e-17	1.000000	1.20531e-17	1.000000
rad8	4.80176e-22	1.000000	4.80176e-22	1.000000
rad2	1.51129e-22	1.000000	1.51129e-22	1.000000
rad31	6.92821e-23	1.000000	6.92821e-23	1.000000
PAH7+H	4.24217e-23	1.000000	4.24217e-23	1.000000
rad1	3.89800e-23	1.000000	3.89800e-23	1.000000
PhCCH+CH3	3.37009e-24	1.000000	3.37009e-24	1.000000
rad30	3.60694e-25	1.000000	3.60694e-25	1.000000
rad14	2.09915e-25	1.000000	2.09915e-25	1.000000
rad15	6.35870e-26	1.000000	6.35870e-26	1.000000
rad38	1.90837e-27	1.000000	1.90837e-27	1.000000
Ph+MeAc	1.71220e-27	1.000000	1.71220e-27	1.000000
rad26	6.17674e-29	1.000000	6.17674e-29	1.000000
rad46	4.39620e-29	1.000000	4.39620e-29	1.000000
rad60syn	9.40313e-30	1.000000	9.40313e-30	1.000000
rad10	6.94380e-30	1.000000	6.94380e-30	1.000000
rad60anti	2.61313e-30	1.000000	2.61313e-30	1.000000
rad39	2.25038e-30	1.000000	2.25038e-30	1.000000
PAH9+H	3.84071e-31	1.000000	3.84071e-31	1.000000
rad35	2.28948e-31	1.000000	2.28948e-31	1.000000
rad19syn	3.69356e-32	1.000000	3.69356e-32	1.000000
rad54	2.26764e-32	1.000000	2.26764e-32	1.000000
rad27	1.55375e-32	1.000000	1.55375e-32	1.000000
PhCCCH3+H	8.59652e-33	1.000000	8.59652e-33	1.000000
PAH3+H	5.21117e-33	1.000000	5.21117e-33	1.000000
rad59	1.90280e-33	1.000000	1.90280e-33	1.000000

rad50	4.95098e-35	1.000000	4.95098e-35	1.000000
rad70	2.14610e-35	1.000000	2.14610e-35	1.000000
rad55	5.69965e-37	1.000000	5.69965e-37	1.000000
PhcycC3H3_A+H	1.53865e-38	1.000000	1.53865e-38	1.000000
rad34	1.10169e-39	1.000000	1.10169e-39	1.000000
rad5	9.94309e-40	1.000000	9.94309e-40	1.000000
rad12	7.09027e-40	1.000000	7.09027e-40	1.000000
rad52	2.92056e-40	1.000000	2.92056e-40	1.000000
rad37	3.39505e-41	1.000000	3.39505e-41	1.000000
rad51	8.35549e-43	1.000000	8.35549e-43	1.000000
rad62	1.49145e-43	1.000000	1.49145e-43	1.000000
rad58	2.95138e-44	1.000000	2.95138e-44	1.000000
PAH1+H	1.84388e-46	1.000000	1.84388e-46	1.000000
rad47	1.00888e-46	1.000000	1.00888e-46	1.000000
PAH10+CH3	1.21877e-47	1.000000	1.21877e-47	1.000000
rad43	6.10628e-49	1.000000	6.10628e-49	1.000000
rad65	2.89946e-49	1.000000	2.89946e-49	1.000000
rad42	5.61667e-51	1.000000	5.61667e-51	1.000000
rad41	7.09380e-57	1.000000	7.09380e-57	1.000000

100000000. Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.51464e-19 (1.00)	8.51464e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83711e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56651e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.920423	0.920423	0.920423	0.920423
rad6	0.0771239	0.997547	0.0771239	0.997547
Benzene+2-propynyl	0.00245244	1.000000	0.00245244	1.000000
rad21	2.09640e-07	1.000000	2.09640e-07	1.000000
rad13	1.72173e-09	1.000000	1.72173e-09	1.000000
rad7	5.55011e-10	1.000000	5.55011e-10	1.000000
rad20	1.81686e-10	1.000000	1.81686e-10	1.000000
rad25	1.30049e-10	1.000000	1.30049e-10	1.000000
rad22	6.98221e-11	1.000000	6.98221e-11	1.000000
rad33	1.76352e-11	1.000000	1.76352e-11	1.000000
PhCHCCH2+H	1.46441e-11	1.000000	1.46441e-11	1.000000
rad24	8.74119e-12	1.000000	8.74119e-12	1.000000
rad9	9.86437e-13	1.000000	9.86437e-13	1.000000
rad45	3.57413e-13	1.000000	3.57413e-13	1.000000
Phenyl+Allene	2.92728e-13	1.000000	0.000000	1.000000
rad36	6.89158e-14	1.000000	6.89158e-14	1.000000
rad18	1.47748e-14	1.000000	1.47748e-14	1.000000
PhCH2CCH+H	8.16685e-16	1.000000	8.16685e-16	1.000000
rad3	2.95557e-16	1.000000	2.95557e-16	1.000000
rad4	2.33249e-16	1.000000	2.33249e-16	1.000000
C2H2+PhCH2	2.20814e-16	1.000000	2.20814e-16	1.000000
Indene+H	1.70562e-16	1.000000	1.70562e-16	1.000000
rad23	2.83697e-17	1.000000	2.83697e-17	1.000000
rad28	1.93036e-17	1.000000	1.93036e-17	1.000000
rad8	1.13366e-21	1.000000	1.13366e-21	1.000000
rad2	2.82092e-22	1.000000	2.82092e-22	1.000000
PAH7+H	1.21373e-22	1.000000	1.21373e-22	1.000000
rad31	1.09597e-22	1.000000	1.09597e-22	1.000000
rad1	7.22175e-23	1.000000	7.22175e-23	1.000000
PhCCH+CH3	7.13135e-24	1.000000	7.13135e-24	1.000000
rad30	6.26594e-25	1.000000	6.26594e-25	1.000000
rad14	4.10906e-25	1.000000	4.10906e-25	1.000000
rad15	1.13705e-25	1.000000	1.13705e-25	1.000000
Ph+MeAc	4.77688e-27	1.000000	4.77688e-27	1.000000
rad38	3.56133e-27	1.000000	3.56133e-27	1.000000
rad26	2.25871e-28	1.000000	2.25871e-28	1.000000
rad46	8.54603e-29	1.000000	8.54603e-29	1.000000
rad60syn	2.21436e-29	1.000000	2.21436e-29	1.000000
rad10	1.61411e-29	1.000000	1.61411e-29	1.000000
rad60anti	6.51279e-30	1.000000	6.51279e-30	1.000000
rad39	5.70684e-30	1.000000	5.70684e-30	1.000000
PAH9+H	6.98966e-31	1.000000	6.98966e-31	1.000000
rad35	4.53128e-31	1.000000	4.53128e-31	1.000000
rad19syn	3.20777e-31	1.000000	3.20777e-31	1.000000
rad54	2.74144e-31	1.000000	2.74144e-31	1.000000
rad27	3.95472e-32	1.000000	3.95472e-32	1.000000
PhCCCH3+H	2.50859e-32	1.000000	2.50859e-32	1.000000
PAH3+H	2.49419e-32	1.000000	2.49419e-32	1.000000
rad59	8.72158e-33	1.000000	8.72158e-33	1.000000

rad70	6.20027e-34	1.000000	6.20027e-34	1.000000
rad50	2.24276e-34	1.000000	2.24276e-34	1.000000
rad55	1.45508e-35	1.000000	1.45508e-35	1.000000
PhcycC3H3_A+H	4.26091e-37	1.000000	4.26091e-37	1.000000
rad34	9.80869e-38	1.000000	9.80869e-38	1.000000
rad5	5.73040e-39	1.000000	5.73040e-39	1.000000
rad12	3.73048e-39	1.000000	3.73048e-39	1.000000
rad52	2.98087e-39	1.000000	2.98087e-39	1.000000
rad37	2.06654e-40	1.000000	2.06654e-40	1.000000
rad51	1.51502e-41	1.000000	1.51502e-41	1.000000
rad62	2.80074e-42	1.000000	2.80074e-42	1.000000
rad58	1.01380e-42	1.000000	1.01380e-42	1.000000
PAH1+H	8.76080e-45	1.000000	8.76080e-45	1.000000
rad47	4.85555e-45	1.000000	4.85555e-45	1.000000
PAH10+CH3	2.38583e-46	1.000000	2.38583e-46	1.000000
rad43	1.15457e-47	1.000000	1.15457e-47	1.000000
rad65	7.87181e-48	1.000000	7.87181e-48	1.000000
rad42	4.27763e-49	1.000000	4.27763e-49	1.000000
rad41	5.10144e-55	1.000000	5.10144e-55	1.000000

100000000. Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.81800e-18 (1.00)	1.81800e-18 (1.00)
Formation of rad11	1.64862e-18 (0.907)	1.64862e-18 (0.907)
Formation of rad6	1.62558e-19 (0.0894)	1.62558e-19 (0.0894)
H-abstraction	6.82130e-21 (0.00375)	6.82130e-21 (0.00375)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.906828	0.906828	0.906828	0.906828
rad6	0.0894200	0.996248	0.0894200	0.996248
Benzene+2-propynyl	0.00375209	1.000000	0.00375209	1.000000
rad21	2.32555e-07	1.000000	2.32555e-07	1.000000
rad13	2.23868e-09	1.000000	2.23868e-09	1.000000
rad7	7.24838e-10	1.000000	7.24838e-10	1.000000
rad20	2.21148e-10	1.000000	2.21148e-10	1.000000
rad25	1.51893e-10	1.000000	1.51893e-10	1.000000
rad22	8.49778e-11	1.000000	8.49778e-11	1.000000
rad33	2.32823e-11	1.000000	2.32823e-11	1.000000
PhCHCCH2+H	1.85645e-11	1.000000	1.85645e-11	1.000000
rad24	1.07412e-11	1.000000	1.07412e-11	1.000000
rad9	1.28259e-12	1.000000	1.28259e-12	1.000000
rad45	4.79971e-13	1.000000	4.79971e-13	1.000000
Phenyl+Allene	4.58264e-13	1.000000	0.000000	1.000000
rad36	9.13928e-14	1.000000	9.13928e-14	1.000000
rad18	1.99380e-14	1.000000	1.99380e-14	1.000000
PhCH2CCH+H	1.90491e-15	1.000000	1.90491e-15	1.000000
rad3	4.45422e-16	1.000000	4.45422e-16	1.000000
rad4	3.50998e-16	1.000000	3.50998e-16	1.000000
C2H2+PhCH2	3.23490e-16	1.000000	3.23490e-16	1.000000
Indene+H	2.32944e-16	1.000000	2.32944e-16	1.000000
rad23	3.89523e-17	1.000000	3.89523e-17	1.000000
rad28	3.01958e-17	1.000000	3.01958e-17	1.000000
rad8	2.58676e-21	1.000000	2.58676e-21	1.000000
rad2	5.13837e-22	1.000000	5.13837e-22	1.000000
PAH7+H	3.29836e-22	1.000000	3.29836e-22	1.000000
rad31	1.68893e-22	1.000000	1.68893e-22	1.000000
rad1	1.30493e-22	1.000000	1.30493e-22	1.000000
PhCCH+CH3	1.48924e-23	1.000000	1.48924e-23	1.000000
rad30	1.09574e-24	1.000000	1.09574e-24	1.000000
rad14	7.91489e-25	1.000000	7.91489e-25	1.000000
rad15	2.05014e-25	1.000000	2.05014e-25	1.000000
Ph+MeAc	1.30460e-26	1.000000	1.30460e-26	1.000000
rad38	6.68252e-27	1.000000	6.68252e-27	1.000000
rad26	7.67879e-28	1.000000	7.67879e-28	1.000000
rad46	1.68324e-28	1.000000	1.68324e-28	1.000000
rad60syn	5.23506e-29	1.000000	5.23506e-29	1.000000
rad10	3.69107e-29	1.000000	3.69107e-29	1.000000
rad60anti	1.61935e-29	1.000000	1.61935e-29	1.000000
rad39	1.43222e-29	1.000000	1.43222e-29	1.000000
rad54	2.57742e-30	1.000000	2.57742e-30	1.000000
rad19syn	2.26212e-30	1.000000	2.26212e-30	1.000000
PAH9+H	1.28967e-30	1.000000	1.28967e-30	1.000000
rad35	9.54536e-31	1.000000	9.54536e-31	1.000000
PAH3+H	1.10194e-31	1.000000	1.10194e-31	1.000000
rad27	9.95169e-32	1.000000	9.95169e-32	1.000000
PhCCCH3+H	7.26350e-32	1.000000	7.26350e-32	1.000000
rad59	3.69661e-32	1.000000	3.69661e-32	1.000000

rad70	1.23017e-32	1.00000	1.23017e-32	1.00000
rad50	9.51955e-34	1.00000	9.51955e-34	1.00000
rad55	2.62835e-34	1.00000	2.62835e-34	1.00000
PhcycC3H3_A+H	8.29117e-36	1.00000	8.29117e-36	1.00000
rad34	4.35364e-36	1.00000	4.35364e-36	1.00000
rad5	3.11046e-38	1.00000	3.11046e-38	1.00000
rad52	2.59795e-38	1.00000	2.59795e-38	1.00000
rad12	1.85942e-38	1.00000	1.85942e-38	1.00000
rad37	1.18737e-39	1.00000	1.18737e-39	1.00000
rad51	2.21577e-40	1.00000	2.21577e-40	1.00000
rad62	4.12979e-41	1.00000	4.12979e-41	1.00000
rad58	2.50761e-41	1.00000	2.50761e-41	1.00000
PAH1+H	2.68324e-43	1.00000	2.68324e-43	1.00000
rad47	1.68222e-43	1.00000	1.68222e-43	1.00000
PAH10+CH3	3.79987e-45	1.00000	3.79987e-45	1.00000
rad43	1.79361e-46	1.00000	1.79361e-46	1.00000
rad65	1.60327e-46	1.00000	1.60327e-46	1.00000
rad42	1.93812e-47	1.00000	1.93812e-47	1.00000
rad41	2.34879e-53	1.00000	2.34879e-53	1.00000

100000000. Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.56414e-18 (1.00)	3.56414e-18 (1.00)
Formation of rad11	3.18264e-18 (0.893)	3.18264e-18 (0.893)
Formation of rad6	3.62173e-19 (0.102)	3.62173e-19 (0.102)
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.892956	0.892956	0.892956	0.892956
rad6	0.101620	0.994576	0.101620	0.994576
Benzene+2-propynyl	0.00542285	0.999999	0.00542285	0.999999
rad21	2.57743e-07	0.999999	2.57743e-07	0.999999
rad13	2.84988e-09	0.999999	2.84988e-09	0.999999
rad7	9.27013e-10	0.999999	9.27013e-10	0.999999
rad20	2.68583e-10	0.999999	2.68583e-10	0.999999
rad25	1.77737e-10	0.999999	1.77737e-10	0.999999
rad22	1.03190e-10	0.999999	1.03190e-10	0.999999
rad33	3.01172e-11	0.999999	3.01172e-11	0.999999
PhCHCCH2+H	2.36539e-11	0.999999	2.36539e-11	0.999999
rad24	1.31785e-11	0.999999	1.31785e-11	0.999999
rad9	1.67544e-12	0.999999	1.67544e-12	0.999999
Phenyl+Allene	7.13332e-13	0.999999	0.000000	0.999999
rad45	6.42490e-13	0.999999	6.42490e-13	0.999999
rad36	1.20909e-13	0.999999	1.20909e-13	0.999999
rad18	2.68384e-14	0.999999	2.68384e-14	0.999999
PhCH2CCH+H	4.20470e-15	0.999999	4.20470e-15	0.999999
rad3	6.58436e-16	0.999999	6.58436e-16	0.999999
rad4	5.17888e-16	0.999999	5.17888e-16	0.999999
C2H2+PhCH2	4.75544e-16	0.999999	4.75544e-16	0.999999
Indene+H	3.17772e-16	0.999999	3.17772e-16	0.999999
rad23	5.34407e-17	0.999999	5.34407e-17	0.999999
rad28	4.64062e-17	0.999999	4.64062e-17	0.999999
rad8	5.73136e-21	0.999999	5.73136e-21	0.999999
rad2	9.19833e-22	0.999999	9.19833e-22	0.999999
PAH7+H	8.56891e-22	0.999999	8.56891e-22	0.999999
rad31	2.55140e-22	0.999999	2.55140e-22	0.999999
rad1	2.31663e-22	0.999999	2.31663e-22	0.999999
PhCCH+CH3	3.08640e-23	0.999999	3.08640e-23	0.999999
rad30	1.93365e-24	0.999999	1.93365e-24	0.999999
rad14	1.50966e-24	0.999999	1.50966e-24	0.999999
rad15	3.73509e-25	0.999999	3.73509e-25	0.999999
Ph+MeAc	3.49953e-26	0.999999	3.49953e-26	0.999999
rad38	1.26453e-26	0.999999	1.26453e-26	0.999999
rad26	2.45269e-27	0.999999	2.45269e-27	0.999999
rad46	3.36297e-28	0.999999	3.36297e-28	0.999999
rad60syn	1.24187e-28	0.999999	1.24187e-28	0.999999
rad10	8.36456e-29	0.999999	8.36456e-29	0.999999
rad60anti	4.01743e-29	0.999999	4.01743e-29	0.999999
rad39	3.56910e-29	0.999999	3.56910e-29	0.999999
rad54	1.95766e-29	0.999999	1.95766e-29	0.999999
rad19syn	1.33829e-29	0.999999	1.33829e-29	0.999999
PAH9+H	2.41915e-30	0.999999	2.41915e-30	0.999999
rad35	2.15301e-30	0.999999	2.15301e-30	0.999999
PAH3+H	4.53973e-31	0.999999	4.53973e-31	0.999999
rad27	2.49165e-31	0.999999	2.49165e-31	0.999999
PhCCCH3+H	2.09617e-31	0.999999	2.09617e-31	0.999999
rad70	1.78441e-31	0.999999	1.78441e-31	0.999999

rad59	1.46404e-31	0.999999	1.46404e-31	0.999999
rad50	3.81543e-33	0.999999	3.81543e-33	0.999999
rad55	3.52631e-33	0.999999	3.52631e-33	0.999999
PhcycC3H3_A+H	1.18951e-34	0.999999	1.18951e-34	0.999999
rad34	1.06634e-34	0.999999	1.06634e-34	0.999999
rad52	1.96485e-37	0.999999	1.96485e-37	0.999999
rad5	1.60187e-37	0.999999	1.60187e-37	0.999999
rad12	8.82567e-38	0.999999	8.82567e-38	0.999999
rad37	6.45793e-39	0.999999	6.45793e-39	0.999999
rad51	2.65979e-39	0.999999	2.65979e-39	0.999999
rad62	4.91860e-40	0.999999	4.91860e-40	0.999999
rad58	4.58725e-40	0.999999	4.58725e-40	0.999999
PAH1+H	5.54419e-42	0.999999	5.54419e-42	0.999999
rad47	4.08583e-42	0.999999	4.08583e-42	0.999999
PAH10+CH3	5.00337e-44	0.999999	5.00337e-44	0.999999
rad65	2.51603e-45	0.999999	2.51603e-45	0.999999
rad43	2.32745e-45	0.999999	2.32745e-45	0.999999
rad42	5.16253e-46	0.999999	5.16253e-46	0.999999
rad41	6.79453e-52	0.999999	6.79453e-52	0.999999

100000000. Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.50681e-18 (1.00)	6.50681e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71915e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39013e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.878943	0.878943	0.878943	0.878943
rad6	0.113580	0.992523	0.113580	0.992523
Benzene+2-propynyl	0.00747672	1.00000	0.00747672	1.00000
rad21	2.85597e-07	1.00000	2.85597e-07	1.00000
rad13	3.56627e-09	1.00000	3.56627e-09	1.00000
rad7	1.16569e-09	1.00000	1.16569e-09	1.00000
rad20	3.25875e-10	1.00000	3.25875e-10	1.00000
rad25	2.08494e-10	1.00000	2.08494e-10	1.00000
rad22	1.25181e-10	1.00000	1.25181e-10	1.00000
rad33	3.83264e-11	1.00000	3.83264e-11	1.00000
PhCHCCH2+H	3.02968e-11	1.00000	3.02968e-11	1.00000
rad24	1.61638e-11	1.00000	1.61638e-11	1.00000
rad9	2.19877e-12	1.00000	2.19877e-12	1.00000
Phenyl+Allene	1.10443e-12	1.00000	0.00000	1.00000
rad45	8.58817e-13	1.00000	8.58817e-13	1.00000
rad36	1.59848e-13	1.00000	1.59848e-13	1.00000
rad18	3.61021e-14	1.00000	3.61021e-14	1.00000
PhCH2CCH+H	8.85810e-15	1.00000	8.85810e-15	1.00000
rad3	9.59092e-16	1.00000	9.59092e-16	1.00000
rad4	7.52787e-16	1.00000	7.52787e-16	1.00000
C2H2+PhCH2	7.02608e-16	1.00000	7.02608e-16	1.00000
Indene+H	4.33813e-16	1.00000	4.33813e-16	1.00000
rad23	7.34027e-17	1.00000	7.34027e-17	1.00000
rad28	7.03906e-17	1.00000	7.03906e-17	1.00000
rad8	1.23784e-20	1.00000	1.23784e-20	1.00000
PAH7+H	2.14010e-21	1.00000	2.14010e-21	1.00000
rad2	1.62701e-21	1.00000	1.62701e-21	1.00000
rad1	4.06335e-22	1.00000	4.06335e-22	1.00000
rad31	3.79689e-22	1.00000	3.79689e-22	1.00000
PhCCH+CH3	6.37149e-23	1.00000	6.37149e-23	1.00000
rad30	3.44840e-24	1.00000	3.44840e-24	1.00000
rad14	2.86426e-24	1.00000	2.86426e-24	1.00000
rad15	6.88315e-25	1.00000	6.88315e-25	1.00000
Ph+MeAc	9.23875e-26	1.00000	9.23875e-26	1.00000
rad38	2.41740e-26	1.00000	2.41740e-26	1.00000
rad26	7.42783e-27	1.00000	7.42783e-27	1.00000
rad46	6.81553e-28	1.00000	6.81553e-28	1.00000
rad60syn	2.95295e-28	1.00000	2.95295e-28	1.00000
rad10	1.88810e-28	1.00000	1.88810e-28	1.00000
rad54	1.24152e-28	1.00000	1.24152e-28	1.00000
rad60anti	9.94062e-29	1.00000	9.94062e-29	1.00000
rad39	8.84607e-29	1.00000	8.84607e-29	1.00000
rad19syn	6.82977e-29	1.00000	6.82977e-29	1.00000
rad35	5.17324e-30	1.00000	5.17324e-30	1.00000
PAH9+H	4.62002e-30	1.00000	4.62002e-30	1.00000
rad70	1.99273e-30	1.00000	1.99273e-30	1.00000
PAH3+H	1.76029e-30	1.00000	1.76029e-30	1.00000
rad27	6.23153e-31	1.00000	6.23153e-31	1.00000
PhCCCH3+H	6.04205e-31	1.00000	6.04205e-31	1.00000

rad59	5.46922e-31	1.00000	5.46922e-31	1.00000
rad55	3.67768e-32	1.00000	3.67768e-32	1.00000
rad50	1.45433e-32	1.00000	1.45433e-32	1.00000
rad34	1.76926e-33	1.00000	1.76926e-33	1.00000
PhcycC3H3_A+H	1.31976e-33	1.00000	1.31976e-33	1.00000
rad52	1.31241e-36	1.00000	1.31241e-36	1.00000
rad5	7.88235e-37	1.00000	7.88235e-37	1.00000
rad12	4.00557e-37	1.00000	4.00557e-37	1.00000
rad37	3.33413e-38	1.00000	3.33413e-38	1.00000
rad51	2.67709e-38	1.00000	2.67709e-38	1.00000
rad58	6.45518e-39	1.00000	6.45518e-39	1.00000
rad62	4.86189e-39	1.00000	4.86189e-39	1.00000
PAH1+H	8.47068e-41	1.00000	8.47068e-41	1.00000
rad47	7.24216e-41	1.00000	7.24216e-41	1.00000
PAH10+CH3	5.53371e-43	1.00000	5.53371e-43	1.00000
rad65	3.13949e-44	1.00000	3.13949e-44	1.00000
rad43	2.56364e-44	1.00000	2.56364e-44	1.00000
rad42	9.83100e-45	1.00000	9.83100e-45	1.00000
rad41	1.41281e-50	1.00000	1.41281e-50	1.00000

100000000. Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.11858e-17 (1.00)	1.11858e-17 (1.00)
Formation of rad11	9.67466e-18 (0.865)	9.67466e-18 (0.865)
Formation of rad6	1.40029e-18 (0.125)	1.40029e-18 (0.125)
H-abstraction	1.10851e-19 (0.00991)	1.10851e-19 (0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.864900	0.864900	0.864900	0.864900
rad6	0.125190	0.990090	0.125190	0.990090
Benzene+2-propynyl	0.00990995	1.00000	0.00990995	1.00000
rad21	3.16572e-07	1.00000	3.16572e-07	1.00000
rad13	4.40089e-09	1.00000	4.40089e-09	1.00000
rad7	1.44586e-09	1.00000	1.44586e-09	1.00000
rad20	3.95405e-10	1.00000	3.95405e-10	1.00000
rad25	2.45290e-10	1.00000	2.45290e-10	1.00000
rad22	1.51860e-10	1.00000	1.51860e-10	1.00000
rad33	4.81365e-11	1.00000	4.81365e-11	1.00000
PhCHCCH2+H	3.90074e-11	1.00000	3.90074e-11	1.00000
rad24	1.98379e-11	1.00000	1.98379e-11	1.00000
rad9	2.89823e-12	1.00000	2.89823e-12	1.00000
Phenyl+Allene	1.70107e-12	1.00000	0.00000	1.00000
rad45	1.14797e-12	1.00000	1.14797e-12	1.00000
rad36	2.11472e-13	1.00000	2.11472e-13	1.00000
rad18	4.86001e-14	1.00000	4.86001e-14	1.00000
PhCH2CCH+H	1.79330e-14	1.00000	1.79330e-14	1.00000
rad3	1.38162e-15	1.00000	1.38162e-15	1.00000
rad4	1.08202e-15	1.00000	1.08202e-15	1.00000
C2H2+PhCH2	1.04445e-15	1.00000	1.04445e-15	1.00000
Indene+H	5.93564e-16	1.00000	5.93564e-16	1.00000
rad28	1.05754e-16	1.00000	1.05754e-16	1.00000
rad23	1.01092e-16	1.00000	1.01092e-16	1.00000
rad8	2.61404e-20	1.00000	2.61404e-20	1.00000
PAH7+H	5.16231e-21	1.00000	5.16231e-21	1.00000
rad2	2.85528e-21	1.00000	2.85528e-21	1.00000
rad1	7.07146e-22	1.00000	7.07146e-22	1.00000
rad31	5.58779e-22	1.00000	5.58779e-22	1.00000
PhCCH+CH3	1.31310e-22	1.00000	1.31310e-22	1.00000
rad30	6.21832e-24	1.00000	6.21832e-24	1.00000
rad14	5.42241e-24	1.00000	5.42241e-24	1.00000
rad15	1.28323e-24	1.00000	1.28323e-24	1.00000
Ph+MeAc	2.40310e-25	1.00000	2.40310e-25	1.00000
rad38	4.67254e-26	1.00000	4.67254e-26	1.00000
rad26	2.14882e-26	1.00000	2.14882e-26	1.00000
rad46	1.39994e-27	1.00000	1.39994e-27	1.00000
rad60syn	7.02855e-28	1.00000	7.02855e-28	1.00000
rad54	6.75617e-28	1.00000	6.75617e-28	1.00000
rad10	4.25925e-28	1.00000	4.25925e-28	1.00000
rad19syn	3.07659e-28	1.00000	3.07659e-28	1.00000
rad60anti	2.45147e-28	1.00000	2.45147e-28	1.00000
rad39	2.18160e-28	1.00000	2.18160e-28	1.00000
rad70	1.77969e-29	1.00000	1.77969e-29	1.00000
rad35	1.30612e-29	1.00000	1.30612e-29	1.00000
PAH9+H	8.98625e-30	1.00000	8.98625e-30	1.00000
PAH3+H	6.47470e-30	1.00000	6.47470e-30	1.00000
rad59	1.94232e-30	1.00000	1.94232e-30	1.00000
PhCCCH3+H	1.74023e-30	1.00000	1.74023e-30	1.00000

rad27	1.55995e-30	1.00000	1.55995e-30	1.00000
rad55	3.08811e-31	1.00000	3.08811e-31	1.00000
rad50	5.30429e-32	1.00000	5.30429e-32	1.00000
rad34	2.18883e-32	1.00000	2.18883e-32	1.00000
PhcycC3H3_A+H	1.17225e-32	1.00000	1.17225e-32	1.00000
rad52	7.86809e-36	1.00000	7.86809e-36	1.00000
rad5	3.72980e-36	1.00000	3.72980e-36	1.00000
rad12	1.74336e-36	1.00000	1.74336e-36	1.00000
rad51	2.30431e-37	1.00000	2.30431e-37	1.00000
rad37	1.63738e-37	1.00000	1.63738e-37	1.00000
rad58	7.23041e-38	1.00000	7.23041e-38	1.00000
rad62	4.07035e-38	1.00000	4.07035e-38	1.00000
PAH1+H	9.92258e-40	1.00000	9.92258e-40	1.00000
rad47	9.88508e-40	1.00000	9.88508e-40	1.00000
PAH10+CH3	5.20974e-42	1.00000	5.20974e-42	1.00000
rad65	3.20119e-43	1.00000	3.20119e-43	1.00000
rad43	2.42119e-43	1.00000	2.42119e-43	1.00000
rad42	1.39280e-43	1.00000	1.39280e-43	1.00000
rad41	2.19260e-49	1.00000	2.19260e-49	1.00000

100000000. Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.82690e-17 (1.00)	1.82690e-17 (1.00)
Formation of rad11	1.55456e-17 (0.851)	1.55456e-17 (0.851)
Formation of rad6	2.49126e-18 (0.136)	2.49126e-18 (0.136)
H-abstraction	2.32112e-19 (0.0127)	2.32112e-19 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.850923	0.850923	0.850923	0.850923
rad6	0.136371	0.987294	0.136371	0.987294
Benzene+2-propynyl	0.0127053	0.999999	0.0127053	0.999999
rad21	3.51193e-07	0.999999	3.51193e-07	0.999999
rad13	5.36948e-09	0.999999	5.36948e-09	0.999999
rad7	1.77353e-09	0.999999	1.77353e-09	0.999999
rad20	4.80179e-10	0.999999	4.80179e-10	0.999999
rad25	2.89509e-10	0.999999	2.89509e-10	0.999999
rad22	1.84375e-10	0.999999	1.84375e-10	0.999999
rad33	5.98227e-11	0.999999	5.98227e-11	0.999999
PhCHCCH2+H	5.04722e-11	0.999999	5.04722e-11	0.999999
rad24	2.43808e-11	0.999999	2.43808e-11	0.999999
rad9	3.83551e-12	0.999999	3.83551e-12	0.999999
Phenyl+Allene	2.60652e-12	0.999999	0.00000	0.999999
rad45	1.53611e-12	0.999999	1.53611e-12	0.999999
rad36	2.80247e-13	0.999999	2.80247e-13	0.999999
rad18	6.55460e-14	0.999999	6.55460e-14	0.999999
PhCH2CCH+H	3.50788e-14	0.999999	3.50788e-14	0.999999
rad3	1.97399e-15	0.999999	1.97399e-15	0.999999
C2H2+PhCH2	1.56304e-15	0.999999	1.56304e-15	0.999999
rad4	1.54244e-15	0.999999	1.54244e-15	0.999999
Indene+H	8.14913e-16	0.999999	8.14913e-16	0.999999
rad28	1.57798e-16	0.999999	1.57798e-16	0.999999
rad23	1.39766e-16	0.999999	1.39766e-16	0.999999
rad8	5.41080e-20	0.999999	5.41080e-20	0.999999
PAH7+H	1.20729e-20	0.999999	1.20729e-20	0.999999
rad2	4.98648e-21	0.999999	4.98648e-21	0.999999
rad1	1.22488e-21	0.999999	1.22488e-21	0.999999
rad31	8.15741e-22	0.999999	8.15741e-22	0.999999
PhCCH+CH3	2.70461e-22	0.999999	2.70461e-22	0.999999
rad30	1.13362e-23	0.999999	1.13362e-23	0.999999
rad14	1.02630e-23	0.999999	1.02630e-23	0.999999
rad15	2.41879e-24	0.999999	2.41879e-24	0.999999
Ph+MeAc	6.16199e-25	0.999999	6.16199e-25	0.999999
rad38	9.13170e-26	0.999999	9.13170e-26	0.999999
rad26	5.97382e-26	0.999999	5.97382e-26	0.999999
rad54	3.22544e-27	0.999999	3.22544e-27	0.999999
rad46	2.91032e-27	0.999999	2.91032e-27	0.999999
rad60syn	1.67206e-27	0.999999	1.67206e-27	0.999999
rad19syn	1.24630e-27	0.999999	1.24630e-27	0.999999
rad10	9.62023e-28	0.999999	9.62023e-28	0.999999
rad60anti	6.01977e-28	0.999999	6.01977e-28	0.999999
rad39	5.35177e-28	0.999999	5.35177e-28	0.999999
rad70	1.30992e-28	0.999999	1.30992e-28	0.999999
rad35	3.40726e-29	0.999999	3.40726e-29	0.999999
PAH3+H	2.27331e-29	0.999999	2.27331e-29	0.999999
PAH9+H	1.77922e-29	0.999999	1.77922e-29	0.999999
rad59	6.59839e-30	0.999999	6.59839e-30	0.999999
PhCCCH3+H	5.00485e-30	0.999999	5.00485e-30	0.999999

rad27	3.91136e-30	0.999999	3.91136e-30	0.999999
rad55	2.14764e-30	0.999999	2.14764e-30	0.999999
rad34	2.11973e-31	0.999999	2.11973e-31	0.999999
rad50	1.86034e-31	0.999999	1.86034e-31	0.999999
PhcycC3H3_A+H	8.57183e-32	0.999999	8.57183e-32	0.999999
rad52	4.29143e-35	0.999999	4.29143e-35	0.999999
rad5	1.70403e-35	0.999999	1.70403e-35	0.999999
rad12	7.28782e-36	0.999999	7.28782e-36	0.999999
rad51	1.72419e-36	0.999999	1.72419e-36	0.999999
rad37	7.65436e-37	0.999999	7.65436e-37	0.999999
rad58	6.61596e-37	0.999999	6.61596e-37	0.999999
rad62	2.93018e-37	0.999999	2.93018e-37	0.999999
rad47	1.07563e-38	0.999999	1.07563e-38	0.999999
PAH1+H	9.20120e-39	0.999999	9.20120e-39	0.999999
PAH10+CH3	4.21542e-41	0.999999	4.21542e-41	0.999999
rad65	2.72481e-42	0.999999	2.72481e-42	0.999999
rad43	1.97430e-42	0.999999	1.97430e-42	0.999999
rad42	1.52444e-42	0.999999	1.52444e-42	0.999999
rad41	2.63269e-48	0.999999	2.63269e-48	0.999999

100000000. Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.85520e-17 (1.00)	2.85520e-17 (1.00)
Formation of rad11	2.39009e-17 (0.837)	2.39009e-17 (0.837)
Formation of rad6	4.19900e-18 (0.147)	4.19900e-18 (0.147)
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.837094	0.837094	0.837094	0.837094
rad6	0.147071	0.984164	0.147071	0.984164
Benzene+2-propynyl	0.0158346	0.999999	0.0158346	0.999999
rad21	3.90059e-07	0.999999	3.90059e-07	0.999999
rad13	6.49082e-09	0.999999	6.49082e-09	0.999999
rad7	2.15591e-09	0.999999	2.15591e-09	0.999999
rad20	5.83989e-10	0.999999	5.83989e-10	0.999999
rad25	3.42858e-10	0.999999	3.42858e-10	0.999999
rad22	2.24174e-10	0.999999	2.24174e-10	0.999999
rad33	7.37186e-11	0.999999	7.37186e-11	0.999999
PhCHCCH2+H	6.56072e-11	0.999999	6.56072e-11	0.999999
rad24	3.00216e-11	0.999999	3.00216e-11	0.999999
rad9	5.09371e-12	0.999999	5.09371e-12	0.999999
Phenyl+Allene	3.97312e-12	0.999999	0.00000	0.999999
rad45	2.05933e-12	0.999999	2.05933e-12	0.999999
rad36	3.72303e-13	0.999999	3.72303e-13	0.999999
rad18	8.86360e-14	0.999999	8.86360e-14	0.999999
PhCH2CCH+H	6.65919e-14	0.999999	6.65919e-14	0.999999
rad3	2.80349e-15	0.999999	2.80349e-15	0.999999
C2H2+PhCH2	2.35528e-15	0.999999	2.35528e-15	0.999999
rad4	2.18565e-15	0.999999	2.18565e-15	0.999999
Indene+H	1.12357e-15	0.999999	1.12357e-15	0.999999
rad28	2.34326e-16	0.999999	2.34326e-16	0.999999
rad23	1.94152e-16	0.999999	1.94152e-16	0.999999
rad8	1.09985e-19	0.999999	1.09985e-19	0.999999
PAH7+H	2.74583e-20	0.999999	2.74583e-20	0.999999
rad2	8.68485e-21	0.999999	8.68485e-21	0.999999
rad1	2.11643e-21	0.999999	2.11643e-21	0.999999
rad31	1.18425e-21	0.999999	1.18425e-21	0.999999
PhCCH+CH3	5.56923e-22	0.999999	5.56923e-22	0.999999
rad30	2.08779e-23	0.999999	2.08779e-23	0.999999
rad14	1.94417e-23	0.999999	1.94417e-23	0.999999
rad15	4.60475e-24	0.999999	4.60475e-24	0.999999
Ph+MeAc	1.55786e-24	0.999999	1.55786e-24	0.999999
rad38	1.80343e-25	0.999999	1.80343e-25	0.999999
rad26	1.60345e-25	0.999999	1.60345e-25	0.999999
rad54	1.37472e-26	0.999999	1.37472e-26	0.999999
rad46	6.11270e-27	0.999999	6.11270e-27	0.999999
rad19syn	4.60749e-27	0.999999	4.60749e-27	0.999999
rad60syn	3.96950e-27	0.999999	3.96950e-27	0.999999
rad10	2.17729e-27	0.999999	2.17729e-27	0.999999
rad60anti	1.47032e-27	0.999999	1.47032e-27	0.999999
rad39	1.30481e-27	0.999999	1.30481e-27	0.999999
rad70	8.13868e-28	0.999999	8.13868e-28	0.999999
rad35	9.04422e-29	0.999999	9.04422e-29	0.999999
PAH3+H	7.65503e-29	0.999999	7.65503e-29	0.999999
PAH9+H	3.58148e-29	0.999999	3.58148e-29	0.999999
rad59	2.15433e-29	0.999999	2.15433e-29	0.999999
PhCCCH3+H	1.43498e-29	0.999999	1.43498e-29	0.999999

rad55	1.26537e-29	0.999999	1.26537e-29	0.999999
rad27	9.81939e-30	0.999999	9.81939e-30	0.999999
rad34	1.65815e-30	0.999999	1.65815e-30	0.999999
rad50	6.29799e-31	0.999999	6.29799e-31	0.999999
PhcycC3H3_A+H	5.27749e-31	0.999999	5.27749e-31	0.999999
rad52	2.15183e-34	0.999999	2.15183e-34	0.999999
rad5	7.51435e-35	0.999999	7.51435e-35	0.999999
rad12	2.92595e-35	0.999999	2.92595e-35	0.999999
rad51	1.13613e-35	0.999999	1.13613e-35	0.999999
rad58	5.04743e-36	0.999999	5.04743e-36	0.999999
rad37	3.40227e-36	0.999999	3.40227e-36	0.999999
rad62	1.83479e-36	0.999999	1.83479e-36	0.999999
rad47	9.57092e-38	0.999999	9.57092e-38	0.999999
PAH1+H	6.94168e-38	0.999999	6.94168e-38	0.999999
PAH10+CH3	2.95210e-40	0.999999	2.95210e-40	0.999999
rad65	1.96829e-41	0.999999	1.96829e-41	0.999999
rad43	1.39837e-41	0.999999	1.39837e-41	0.999999
rad42	1.33179e-41	0.999999	1.33179e-41	0.999999
rad41	2.52426e-47	0.999999	2.52426e-47	0.999999

100000000. Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.29529e-17 (1.00)	4.29529e-17 (1.00)
Formation of rad11	3.53712e-17 (0.823)	3.53712e-17 (0.823)
Formation of rad6	6.75433e-18 (0.157)	6.75433e-18 (0.157)
H-abstraction	8.27372e-19 (0.0193)	8.27372e-19 (0.0193)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.823480	0.823480	0.823480	0.823480
rad6	0.157256	0.980737	0.157256	0.980737
Benzene+2-propynyl	0.0192623	0.999999	0.0192623	0.999999
rad21	4.33861e-07	0.999999	4.33861e-07	0.999999
rad13	7.78733e-09	0.999999	7.78733e-09	0.999999
rad7	2.60167e-09	0.999999	2.60167e-09	0.999999
rad20	7.11622e-10	0.999999	7.11622e-10	0.999999
rad25	4.07430e-10	0.999999	4.07430e-10	0.999999
rad22	2.73083e-10	0.999999	2.73083e-10	0.999999
rad33	9.02288e-11	0.999999	9.02288e-11	0.999999
PhCHCCH2+H	8.56320e-11	0.999999	8.56320e-11	0.999999
rad24	3.70519e-11	0.999999	3.70519e-11	0.999999
rad9	6.78452e-12	0.999999	6.78452e-12	0.999999
Phenyl+Allene	6.02411e-12	0.999999	0.00000	0.999999
rad45	2.76734e-12	0.999999	2.76734e-12	0.999999
rad36	4.96062e-13	0.999999	4.96062e-13	0.999999
PhCH2CCH+H	1.23116e-13	0.999999	1.23116e-13	0.999999
rad18	1.20245e-13	0.999999	1.20245e-13	0.999999
rad3	3.96471e-15	0.999999	3.96471e-15	0.999999
C2H2+PhCH2	3.57312e-15	0.999999	3.57312e-15	0.999999
rad4	3.08412e-15	0.999999	3.08412e-15	0.999999
Indene+H	1.55661e-15	0.999999	1.55661e-15	0.999999
rad28	3.46815e-16	0.999999	3.46815e-16	0.999999
rad23	2.71138e-16	0.999999	2.71138e-16	0.999999
rad8	2.19876e-19	0.999999	2.19876e-19	0.999999
PAH7+H	6.08824e-20	0.999999	6.08824e-20	0.999999
rad2	1.51072e-20	0.999999	1.51072e-20	0.999999
rad1	3.65345e-21	0.999999	3.65345e-21	0.999999
rad31	1.71313e-21	0.999999	1.71313e-21	0.999999
PhCCH+CH3	1.14614e-21	0.999999	1.14614e-21	0.999999
rad30	3.88002e-23	0.999999	3.88002e-23	0.999999
rad14	3.68755e-23	0.999999	3.68755e-23	0.999999
rad15	8.84098e-24	0.999999	8.84098e-24	0.999999
Ph+MeAc	3.88234e-24	0.999999	3.88234e-24	0.999999
rad26	4.17028e-25	0.999999	4.17028e-25	0.999999
rad38	3.59572e-25	0.999999	3.59572e-25	0.999999
rad54	5.30217e-26	0.999999	5.30217e-26	0.999999
rad19syn	1.57216e-26	0.999999	1.57216e-26	0.999999
rad46	1.29468e-26	0.999999	1.29468e-26	0.999999
rad60syn	9.38903e-27	0.999999	9.38903e-27	0.999999
rad10	4.93710e-27	0.999999	4.93710e-27	0.999999
rad70	4.35166e-27	0.999999	4.35166e-27	0.999999
rad60anti	3.56794e-27	0.999999	3.56794e-27	0.999999
rad39	3.15756e-27	0.999999	3.15756e-27	0.999999
PAH3+H	2.47995e-28	0.999999	2.47995e-28	0.999999
rad35	2.41339e-28	0.999999	2.41339e-28	0.999999
PAH9+H	7.31667e-29	0.999999	7.31667e-29	0.999999
rad59	6.78131e-29	0.999999	6.78131e-29	0.999999
rad55	6.43316e-29	0.999999	6.43316e-29	0.999999

PhCCCH3+H	4.09154e-29	0.999999	4.09154e-29	0.999999
rad27	2.46511e-29	0.999999	2.46511e-29	0.999999
rad34	1.07485e-29	0.999999	1.07485e-29	0.999999
PhcycC3H3_A+H	2.78680e-30	0.999999	2.78680e-30	0.999999
rad50	2.06328e-30	0.999999	2.06328e-30	0.999999
rad52	9.99342e-34	0.999999	9.99342e-34	0.999999
rad5	3.18164e-34	0.999999	3.18164e-34	0.999999
rad12	1.12609e-34	0.999999	1.12609e-34	0.999999
rad51	6.66108e-35	0.999999	6.66108e-35	0.999999
rad58	3.26747e-35	0.999999	3.26747e-35	0.999999
rad37	1.43355e-35	0.999999	1.43355e-35	0.999999
rad62	1.00885e-35	0.999999	1.00885e-35	0.999999
rad47	7.12144e-37	0.999999	7.12144e-37	0.999999
PAH1+H	4.36215e-37	0.999999	4.36215e-37	0.999999
PAH10+CH3	1.80143e-39	0.999999	1.80143e-39	0.999999
rad65	1.22357e-40	0.999999	1.22357e-40	0.999999
rad42	9.55048e-41	0.999999	9.55048e-41	0.999999
rad43	8.65932e-41	0.999999	8.65932e-41	0.999999
rad41	1.98631e-46	0.999999	1.98631e-46	0.999999

100000000. Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.25016e-17 (1.00)	6.25016e-17 (1.00)
Formation of rad11	5.06355e-17 (0.810)	5.06355e-17 (0.810)
Formation of rad6	1.04318e-17 (0.167)	1.04318e-17 (0.167)
H-abstraction	1.43428e-18 (0.0229)	1.43428e-18 (0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.810139	0.810139	0.810139	0.810139
rad6	0.166913	0.977052	0.166913	0.977052
Benzene+2-propynyl	0.0229478	1.00000	0.0229478	1.00000
rad21	4.83386e-07	1.00000	4.83386e-07	1.00000
rad13	9.28560e-09	1.00000	9.28560e-09	1.00000
rad7	3.12111e-09	1.00000	3.12111e-09	1.00000
rad20	8.69123e-10	1.00000	8.69123e-10	1.00000
rad25	4.85800e-10	1.00000	4.85800e-10	1.00000
rad22	3.33407e-10	1.00000	3.33407e-10	1.00000
PhCHCCH2+H	1.12168e-10	1.00000	1.12168e-10	1.00000
rad33	1.09841e-10	1.00000	1.09841e-10	1.00000
rad24	4.58429e-11	1.00000	4.58429e-11	1.00000
Phenyl+Allene	9.08440e-12	1.00000	0.00000	1.00000
rad9	9.05766e-12	1.00000	9.05766e-12	1.00000
rad45	3.72886e-12	1.00000	3.72886e-12	1.00000
rad36	6.63110e-13	1.00000	6.63110e-13	1.00000
PhCH2CCH+H	2.22313e-13	1.00000	2.22313e-13	1.00000
rad18	1.63704e-13	1.00000	1.63704e-13	1.00000
rad3	5.59044e-15	1.00000	5.59044e-15	1.00000
C2H2+PhCH2	5.45516e-15	1.00000	5.45516e-15	1.00000
rad4	4.33946e-15	1.00000	4.33946e-15	1.00000
Indene+H	2.16762e-15	1.00000	2.16762e-15	1.00000
rad28	5.12154e-16	1.00000	5.12154e-16	1.00000
rad23	3.80793e-16	1.00000	3.80793e-16	1.00000
rad8	4.32787e-19	1.00000	4.32787e-19	1.00000
PAH7+H	1.31856e-19	1.00000	1.31856e-19	1.00000
rad2	2.62687e-20	1.00000	2.62687e-20	1.00000
rad1	6.30660e-21	1.00000	6.30660e-21	1.00000
rad31	2.47354e-21	1.00000	2.47354e-21	1.00000
PhCCH+CH3	2.35555e-21	1.00000	2.35555e-21	1.00000
rad30	7.26604e-23	1.00000	7.26604e-23	1.00000
rad14	7.00199e-23	1.00000	7.00199e-23	1.00000
rad15	1.70907e-23	1.00000	1.70907e-23	1.00000
Ph+MeAc	9.52981e-24	1.00000	9.52981e-24	1.00000
rad26	1.05365e-24	1.00000	1.05365e-24	1.00000
rad38	7.22908e-25	1.00000	7.22908e-25	1.00000
rad54	1.86960e-25	1.00000	1.86960e-25	1.00000
rad19syn	4.99263e-26	1.00000	4.99263e-26	1.00000
rad46	2.75979e-26	1.00000	2.75979e-26	1.00000
rad60syn	2.20885e-26	1.00000	2.20885e-26	1.00000
rad70	2.03440e-26	1.00000	2.03440e-26	1.00000
rad10	1.12056e-26	1.00000	1.12056e-26	1.00000
rad60anti	8.59005e-27	1.00000	8.59005e-27	1.00000
rad39	7.56979e-27	1.00000	7.56979e-27	1.00000
PAH3+H	7.74112e-28	1.00000	7.74112e-28	1.00000
rad35	6.41568e-28	1.00000	6.41568e-28	1.00000
rad55	2.86523e-28	1.00000	2.86523e-28	1.00000
rad59	2.06133e-28	1.00000	2.06133e-28	1.00000
PAH9+H	1.51374e-28	1.00000	1.51374e-28	1.00000

PhCCCH3+H	1.15602e-28	1.00000	1.15602e-28	1.00000
rad27	6.17501e-29	1.00000	6.17501e-29	1.00000
rad34	5.90029e-29	1.00000	5.90029e-29	1.00000
PhcycC3H3_A+H	1.28187e-29	1.00000	1.28187e-29	1.00000
rad50	6.54884e-30	1.00000	6.54884e-30	1.00000
rad52	4.31989e-33	1.00000	4.31989e-33	1.00000
rad5	1.28283e-33	1.00000	1.28283e-33	1.00000
rad12	4.14013e-34	1.00000	4.14013e-34	1.00000
rad51	3.50490e-34	1.00000	3.50490e-34	1.00000
rad58	1.82292e-34	1.00000	1.82292e-34	1.00000
rad37	5.70181e-35	1.00000	5.70181e-35	1.00000
rad62	4.91330e-35	1.00000	4.91330e-35	1.00000
rad47	4.52063e-36	1.00000	4.52063e-36	1.00000
PAH1+H	2.33012e-36	1.00000	2.33012e-36	1.00000
PAH10+CH3	9.64986e-39	1.00000	9.64986e-39	1.00000
rad65	6.62821e-40	1.00000	6.62821e-40	1.00000
rad42	5.75823e-40	1.00000	5.75823e-40	1.00000
rad43	4.72341e-40	1.00000	4.72341e-40	1.00000
rad41	1.31329e-45	1.00000	1.31329e-45	1.00000

100000000. Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83273e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04077e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55481e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.797114	0.797114	0.797114	0.797114
rad6	0.176036	0.973151	0.176036	0.973151
Benzene+2-propynyl	0.0268483	0.999999	0.0268483	0.999999
rad21	5.39542e-07	1.000000	5.39542e-07	1.000000
rad13	1.10171e-08	1.000000	1.10171e-08	1.000000
rad7	3.72647e-09	1.000000	3.72647e-09	1.000000
rad20	1.06411e-09	1.000000	1.06411e-09	1.000000
rad25	5.81125e-10	1.000000	5.81125e-10	1.000000
rad22	4.08046e-10	1.000000	4.08046e-10	1.000000
PhCHCCH2+H	1.47361e-10	1.000000	1.47361e-10	1.000000
rad33	1.33144e-10	1.000000	1.33144e-10	1.000000
rad24	5.68660e-11	1.000000	5.68660e-11	1.000000
Phenyl+Allene	1.36233e-11	1.000000	0.000000	1.000000
rad9	1.21132e-11	1.000000	1.21132e-11	1.000000
rad45	5.03872e-12	1.000000	5.03872e-12	1.000000
rad36	8.89383e-13	1.000000	8.89383e-13	1.000000
PhCH2CCH+H	3.92981e-13	1.000000	3.92981e-13	1.000000
rad18	2.23689e-13	1.000000	2.23689e-13	1.000000
C2H2+PhCH2	8.37642e-15	1.000000	8.37642e-15	1.000000
rad3	7.86720e-15	1.000000	7.86720e-15	1.000000
rad4	6.09428e-15	1.000000	6.09428e-15	1.000000
Indene+H	3.03431e-15	1.000000	3.03431e-15	1.000000
rad28	7.55146e-16	1.000000	7.55146e-16	1.000000
rad23	5.37891e-16	1.000000	5.37891e-16	1.000000
rad8	8.39419e-19	1.000000	8.39419e-19	1.000000
PAH7+H	2.79326e-19	1.000000	2.79326e-19	1.000000
rad2	4.56761e-20	1.000000	4.56761e-20	1.000000
rad1	1.08909e-20	1.000000	1.08909e-20	1.000000
PhCCH+CH3	4.82847e-21	1.000000	4.82847e-21	1.000000
rad31	3.56983e-21	1.000000	3.56983e-21	1.000000
rad30	1.36889e-22	1.000000	1.36889e-22	1.000000
rad14	1.33013e-22	1.000000	1.33013e-22	1.000000
rad15	3.32035e-23	1.000000	3.32035e-23	1.000000
Ph+MeAc	2.30089e-23	1.000000	2.30089e-23	1.000000
rad26	2.59035e-24	1.000000	2.59035e-24	1.000000
rad38	1.46347e-24	1.000000	1.46347e-24	1.000000
rad54	6.07363e-25	1.000000	6.07363e-25	1.000000
rad19syn	1.48427e-25	1.000000	1.48427e-25	1.000000
rad70	8.42674e-26	1.000000	8.42674e-26	1.000000
rad46	5.90847e-26	1.000000	5.90847e-26	1.000000
rad60syn	5.15841e-26	1.000000	5.15841e-26	1.000000
rad10	2.54098e-26	1.000000	2.54098e-26	1.000000
rad60anti	2.04827e-26	1.000000	2.04827e-26	1.000000
rad39	1.79302e-26	1.000000	1.79302e-26	1.000000
PAH3+H	2.32816e-27	1.000000	2.32816e-27	1.000000
rad35	1.68721e-27	1.000000	1.68721e-27	1.000000
rad55	1.13237e-27	1.000000	1.13237e-27	1.000000
rad59	6.05151e-28	1.000000	6.05151e-28	1.000000
PhCCCH3+H	3.22131e-28	1.000000	3.22131e-28	1.000000

PAH9+H	3.16342e-28	1.000000	3.16342e-28	1.000000
rad34	2.79425e-28	1.000000	2.79425e-28	1.000000
rad27	1.53848e-28	1.000000	1.53848e-28	1.000000
PhcycC3H3_A+H	5.20525e-29	1.000000	5.20525e-29	1.000000
rad50	2.01356e-29	1.000000	2.01356e-29	1.000000
rad52	1.74380e-32	1.000000	1.74380e-32	1.000000
rad5	4.88463e-33	1.000000	4.88463e-33	1.000000
rad51	1.66786e-33	1.000000	1.66786e-33	1.000000
rad12	1.44786e-33	1.000000	1.44786e-33	1.000000
rad58	8.88754e-34	1.000000	8.88754e-34	1.000000
rad62	2.13731e-34	1.000000	2.13731e-34	1.000000
rad37	2.13159e-34	1.000000	2.13159e-34	1.000000
rad47	2.49221e-35	1.000000	2.49221e-35	1.000000
PAH1+H	1.07683e-35	1.000000	1.07683e-35	1.000000
PAH10+CH3	4.57483e-38	1.000000	4.57483e-38	1.000000
rad65	3.16553e-39	1.000000	3.16553e-39	1.000000
rad42	2.97952e-39	1.000000	2.97952e-39	1.000000
rad43	2.28841e-39	1.000000	2.28841e-39	1.000000
rad41	7.44471e-45	1.000000	7.44471e-45	1.000000

100000000. Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.21641e-16 (1.00)	1.21641e-16 (1.00)
Formation of rad11	9.54219e-17 (0.784)	9.54219e-17 (0.784)
Formation of rad6	2.24583e-17 (0.185)	2.24583e-17 (0.185)
H-abstraction	3.76121e-18 (0.0309)	3.76121e-18 (0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.784443	0.784443	0.784443	0.784443
rad6	0.184636	0.969079	0.184636	0.969079
Benzene+2-propynyl	0.0309205	0.999999	0.0309205	0.999999
rad21	6.03362e-07	1.000000	6.03362e-07	1.000000
rad13	1.30187e-08	1.000000	1.30187e-08	1.000000
rad7	4.43229e-09	1.000000	4.43229e-09	1.000000
rad20	1.30620e-09	1.000000	1.30620e-09	1.000000
rad25	6.97270e-10	1.000000	6.97270e-10	1.000000
rad22	5.00661e-10	1.000000	5.00661e-10	1.000000
PhCHCCH2+H	1.94054e-10	1.000000	1.94054e-10	1.000000
rad33	1.60842e-10	1.000000	1.60842e-10	1.000000
rad24	7.07193e-11	1.000000	7.07193e-11	1.000000
Phenyl+Allene	2.03143e-11	1.000000	0.000000	1.000000
rad9	1.62176e-11	1.000000	1.62176e-11	1.000000
rad45	6.82777e-12	1.000000	6.82777e-12	1.000000
rad36	1.19681e-12	1.000000	1.19681e-12	1.000000
PhCH2CCH+H	6.81313e-13	1.000000	6.81313e-13	1.000000
rad18	3.06766e-13	1.000000	3.06766e-13	1.000000
C2H2+PhCH2	1.29263e-14	1.000000	1.29263e-14	1.000000
rad3	1.10566e-14	1.000000	1.10566e-14	1.000000
rad4	8.54842e-15	1.000000	8.54842e-15	1.000000
Indene+H	4.26948e-15	1.000000	4.26948e-15	1.000000
rad28	1.11214e-15	1.000000	1.11214e-15	1.000000
rad23	7.64153e-16	1.000000	7.64153e-16	1.000000
rad8	1.60511e-18	1.000000	1.60511e-18	1.000000
PAH7+H	5.79312e-19	1.000000	5.79312e-19	1.000000
rad2	7.94137e-20	1.000000	7.94137e-20	1.000000
rad1	1.88143e-20	1.000000	1.88143e-20	1.000000
PhCCH+CH3	9.85389e-21	1.000000	9.85389e-21	1.000000
rad31	5.15582e-21	1.000000	5.15582e-21	1.000000
rad30	2.58966e-22	1.000000	2.58966e-22	1.000000
rad14	2.52493e-22	1.000000	2.52493e-22	1.000000
rad15	6.46970e-23	1.000000	6.46970e-23	1.000000
Ph+MeAc	5.45281e-23	1.000000	5.45281e-23	1.000000
rad26	6.20067e-24	1.000000	6.20067e-24	1.000000
rad38	2.97856e-24	1.000000	2.97856e-24	1.000000
rad54	1.82863e-24	1.000000	1.82863e-24	1.000000
rad19syn	4.14769e-25	1.000000	4.14769e-25	1.000000
rad70	3.12782e-25	1.000000	3.12782e-25	1.000000
rad46	1.26760e-25	1.000000	1.26760e-25	1.000000
rad60syn	1.19295e-25	1.000000	1.19295e-25	1.000000
rad10	5.74060e-26	1.000000	5.74060e-26	1.000000
rad60anti	4.82618e-26	1.000000	4.82618e-26	1.000000
rad39	4.18174e-26	1.000000	4.18174e-26	1.000000
PAH3+H	6.73778e-27	1.000000	6.73778e-27	1.000000
rad35	4.36362e-27	1.000000	4.36362e-27	1.000000
rad55	4.01525e-27	1.000000	4.01525e-27	1.000000
rad59	1.71388e-27	1.000000	1.71388e-27	1.000000
rad34	1.15999e-27	1.000000	1.15999e-27	1.000000

PhCCCH3+H	8.80434e-28	1.000000	8.80434e-28	1.000000
PAH9+H	6.65704e-28	1.000000	6.65704e-28	1.000000
rad27	3.79628e-28	1.000000	3.79628e-28	1.000000
PhcycC3H3_A+H	1.88782e-28	1.000000	1.88782e-28	1.000000
rad50	5.99027e-29	1.000000	5.99027e-29	1.000000
rad52	6.58927e-32	1.000000	6.58927e-32	1.000000
rad5	1.74567e-32	1.000000	1.74567e-32	1.000000
rad51	7.22954e-33	1.000000	7.22954e-33	1.000000
rad12	4.79646e-33	1.000000	4.79646e-33	1.000000
rad58	3.83439e-33	1.000000	3.83439e-33	1.000000
rad62	8.37335e-34	1.000000	8.37335e-34	1.000000
rad37	7.46521e-34	1.000000	7.46521e-34	1.000000
rad47	1.21218e-34	1.000000	1.21218e-34	1.000000
PAH1+H	4.37187e-35	1.000000	4.37187e-35	1.000000
PAH10+CH3	1.93592e-37	1.000000	1.93592e-37	1.000000
rad65	1.34745e-38	1.000000	1.34745e-38	1.000000
rad42	1.34665e-38	1.000000	1.34665e-38	1.000000
rad43	9.93277e-39	1.000000	9.93277e-39	1.000000
rad41	3.68160e-44	1.000000	3.68160e-44	1.000000

100000000. Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.63720e-16 (1.00)	1.63720e-16 (1.00)
Formation of rad11	1.26419e-16 (0.772)	1.26419e-16 (0.772)
Formation of rad6	3.15515e-17 (0.193)	3.15515e-17 (0.193)
H-abstraction	5.75028e-18 (0.0351)	5.75028e-18 (0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.772152	0.772152	0.772152	0.772152
rad6	0.192726	0.964877	0.192726	0.964877
Benzene+2-propynyl	0.0351226	1.00000	0.0351226	1.00000
rad21	6.76031e-07	1.00000	6.76031e-07	1.00000
rad13	1.53339e-08	1.00000	1.53339e-08	1.00000
rad7	5.25570e-09	1.00000	5.25570e-09	1.00000
rad20	1.60751e-09	1.00000	1.60751e-09	1.00000
rad25	8.38960e-10	1.00000	8.38960e-10	1.00000
rad22	6.15856e-10	1.00000	6.15856e-10	1.00000
PhCHCCH2+H	2.55991e-10	1.00000	2.55991e-10	1.00000
rad33	1.93780e-10	1.00000	1.93780e-10	1.00000
rad24	8.81599e-11	1.00000	8.81599e-11	1.00000
Phenyl+Allene	3.01154e-11	1.00000	0.00000	1.00000
rad9	2.17243e-11	1.00000	2.17243e-11	1.00000
rad45	9.27644e-12	1.00000	9.27644e-12	1.00000
rad36	1.61556e-12	1.00000	1.61556e-12	1.00000
PhCH2CCH+H	1.16019e-12	1.00000	1.16019e-12	1.00000
rad18	4.22160e-13	1.00000	4.22160e-13	1.00000
C2H2+PhCH2	2.00292e-14	1.00000	2.00292e-14	1.00000
rad3	1.55246e-14	1.00000	1.55246e-14	1.00000
rad4	1.19813e-14	1.00000	1.19813e-14	1.00000
Indene+H	6.03711e-15	1.00000	6.03711e-15	1.00000
rad28	1.63626e-15	1.00000	1.63626e-15	1.00000
rad23	1.09158e-15	1.00000	1.09158e-15	1.00000
rad8	3.02634e-18	1.00000	3.02634e-18	1.00000
PAH7+H	1.17670e-18	1.00000	1.17670e-18	1.00000
rad2	1.37977e-19	1.00000	1.37977e-19	1.00000
rad1	3.24965e-20	1.00000	3.24965e-20	1.00000
PhCCH+CH3	1.99735e-20	1.00000	1.99735e-20	1.00000
rad31	7.45965e-21	1.00000	7.45965e-21	1.00000
rad30	4.90902e-22	1.00000	4.90902e-22	1.00000
rad14	4.78115e-22	1.00000	4.78115e-22	1.00000
Ph+MeAc	1.26501e-22	1.00000	1.26501e-22	1.00000
rad15	1.26136e-22	1.00000	1.26136e-22	1.00000
rad26	1.44496e-23	1.00000	1.44496e-23	1.00000
rad38	6.08333e-24	1.00000	6.08333e-24	1.00000
rad54	5.12691e-24	1.00000	5.12691e-24	1.00000
rad19syn	1.09257e-24	1.00000	1.09257e-24	1.00000
rad70	1.05066e-24	1.00000	1.05066e-24	1.00000
rad60syn	2.72396e-25	1.00000	2.72396e-25	1.00000
rad46	2.71830e-25	1.00000	2.71830e-25	1.00000
rad10	1.28736e-25	1.00000	1.28736e-25	1.00000
rad60anti	1.12046e-25	1.00000	1.12046e-25	1.00000
rad39	9.56385e-26	1.00000	9.56385e-26	1.00000
PAH3+H	1.87267e-26	1.00000	1.87267e-26	1.00000
rad55	1.28993e-26	1.00000	1.28993e-26	1.00000
rad35	1.10403e-26	1.00000	1.10403e-26	1.00000
rad59	4.67373e-27	1.00000	4.67373e-27	1.00000
rad34	4.27989e-27	1.00000	4.27989e-27	1.00000

PhCCCH3+H	2.34678e-27	1.00000	2.34678e-27	1.00000
PAH9+H	1.40537e-27	1.00000	1.40537e-27	1.00000
rad27	9.23199e-28	1.00000	9.23199e-28	1.00000
PhcycC3H3_A+H	6.17854e-28	1.00000	6.17854e-28	1.00000
rad50	1.72132e-28	1.00000	1.72132e-28	1.00000
rad52	2.33587e-31	1.00000	2.33587e-31	1.00000
rad5	5.83652e-32	1.00000	5.83652e-32	1.00000
rad51	2.87407e-32	1.00000	2.87407e-32	1.00000
rad12	1.50054e-32	1.00000	1.50054e-32	1.00000
rad58	1.48053e-32	1.00000	1.48053e-32	1.00000
rad62	2.97837e-33	1.00000	2.97837e-33	1.00000
rad37	2.44483e-33	1.00000	2.44483e-33	1.00000
rad47	5.27436e-34	1.00000	5.27436e-34	1.00000
PAH1+H	1.58031e-34	1.00000	1.58031e-34	1.00000
PAH10+CH3	7.37558e-37	1.00000	7.37558e-37	1.00000
rad42	5.39781e-38	1.00000	5.39781e-38	1.00000
rad65	5.16480e-38	1.00000	5.16480e-38	1.00000
rad43	3.89588e-38	1.00000	3.89588e-38	1.00000
rad41	1.61210e-43	1.00000	1.61210e-43	1.00000

100000000. Pa, 270.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.15887e-16	(1.00)	2.15887e-16	(1.00)
Formation of rad11	1.64133e-16	(0.760)	1.64133e-16	(0.760)
Formation of rad6	4.32452e-17	(0.200)	4.32452e-17	(0.200)
H-abstraction	8.50919e-18	(0.0394)	8.50919e-18	(0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.760260	0.760260	0.760260	0.760260
rad6	0.200324	0.960584	0.200324	0.960584
Benzene+2-propynyl	0.0394150	0.999999	0.0394150	0.999999
rad21	7.58902e-07	1.000000	7.58902e-07	1.000000
rad13	1.80133e-08	1.000000	1.80133e-08	1.000000
rad7	6.21686e-09	1.000000	6.21686e-09	1.000000
rad20	1.98329e-09	1.000000	1.98329e-09	1.000000
rad25	1.01196e-09	1.000000	1.01196e-09	1.000000
rad22	7.59425e-10	1.000000	7.59425e-10	1.000000
PhCHCCH2+H	3.38080e-10	1.000000	3.38080e-10	1.000000
rad33	2.32966e-10	1.000000	2.32966e-10	1.000000
rad24	1.10145e-10	1.000000	1.10145e-10	1.000000
Phenyl+Allene	4.43782e-11	1.000000	0.000000	1.000000
rad9	2.91000e-11	1.000000	2.91000e-11	1.000000
rad45	1.26330e-11	1.000000	1.26330e-11	1.000000
rad36	2.18708e-12	1.000000	2.18708e-12	1.000000
PhCH2CCH+H	1.94265e-12	1.000000	1.94265e-12	1.000000
rad18	5.82815e-13	1.000000	5.82815e-13	1.000000
C2H2+PhCH2	3.11308e-14	1.000000	3.11308e-14	1.000000
rad3	2.17813e-14	1.000000	2.17813e-14	1.000000
rad4	1.67824e-14	1.000000	1.67824e-14	1.000000
Indene+H	8.57543e-15	1.000000	8.57543e-15	1.000000
rad28	2.40463e-15	1.000000	2.40463e-15	1.000000
rad23	1.56732e-15	1.000000	1.56732e-15	1.000000
rad8	5.62489e-18	1.000000	5.62489e-18	1.000000
PAH7+H	2.34047e-18	1.000000	2.34047e-18	1.000000
rad2	2.39301e-19	1.000000	2.39301e-19	1.000000
rad1	5.60601e-20	1.000000	5.60601e-20	1.000000
PhCCH+CH3	4.00953e-20	1.000000	4.00953e-20	1.000000
rad31	1.08214e-20	1.000000	1.08214e-20	1.000000
rad30	9.30133e-22	1.000000	9.30133e-22	1.000000
rad14	9.01042e-22	1.000000	9.01042e-22	1.000000
Ph+MeAc	2.86445e-22	1.000000	2.86445e-22	1.000000
rad15	2.45395e-22	1.000000	2.45395e-22	1.000000
rad26	3.27518e-23	1.000000	3.27518e-23	1.000000
rad54	1.34403e-23	1.000000	1.34403e-23	1.000000
rad38	1.24408e-23	1.000000	1.24408e-23	1.000000
rad70	3.22177e-24	1.000000	3.22177e-24	1.000000
rad19syn	2.71898e-24	1.000000	2.71898e-24	1.000000
rad60syn	6.12033e-25	1.000000	6.12033e-25	1.000000
rad46	5.80973e-25	1.000000	5.80973e-25	1.000000
rad10	2.85335e-25	1.000000	2.85335e-25	1.000000
rad60anti	2.55461e-25	1.000000	2.55461e-25	1.000000
rad39	2.13576e-25	1.000000	2.13576e-25	1.000000
PAH3+H	4.98825e-26	1.000000	4.98825e-26	1.000000
rad55	3.78710e-26	1.000000	3.78710e-26	1.000000
rad35	2.71962e-26	1.000000	2.71962e-26	1.000000
rad34	1.42040e-26	1.000000	1.42040e-26	1.000000
rad59	1.22458e-26	1.000000	1.22458e-26	1.000000

PhCCCH3+H	6.06878e-27	1.000000	6.06878e-27	1.000000
PAH9+H	2.96327e-27	1.000000	2.96327e-27	1.000000
rad27	2.20127e-27	1.000000	2.20127e-27	1.000000
PhcycC3H3_A+H	1.84174e-27	1.000000	1.84174e-27	1.000000
rad50	4.76950e-28	1.000000	4.76950e-28	1.000000
rad52	7.78666e-31	1.000000	7.78666e-31	1.000000
rad5	1.82454e-31	1.000000	1.82454e-31	1.000000
rad51	1.05471e-31	1.000000	1.05471e-31	1.000000
rad58	5.16842e-32	1.000000	5.16842e-32	1.000000
rad12	4.42536e-32	1.000000	4.42536e-32	1.000000
rad62	9.69374e-33	1.000000	9.69374e-33	1.000000
rad37	7.48580e-33	1.000000	7.48580e-33	1.000000
rad47	2.07812e-33	1.000000	2.07812e-33	1.000000
PAH1+H	5.14589e-34	1.000000	5.14589e-34	1.000000
PAH10+CH3	2.55114e-36	1.000000	2.55114e-36	1.000000
rad42	1.94415e-37	1.000000	1.94415e-37	1.000000
rad65	1.79987e-37	1.000000	1.79987e-37	1.000000
rad43	1.39225e-37	1.000000	1.39225e-37	1.000000
rad41	6.33097e-43	1.000000	6.33097e-43	1.000000

100000000. Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79491e-16 (1.00)	2.79491e-16 (1.00)
Formation of rad11	2.09281e-16 (0.749)	2.09281e-16 (0.749)
Formation of rad6	5.79792e-17 (0.207)	5.79792e-17 (0.207)
H-abstraction	1.22310e-17 (0.0438)	1.22310e-17 (0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.748781	0.748781	0.748781	0.748781
rad6	0.207457	0.956237	0.207457	0.956237
Benzene+2-propynyl	0.0437616	0.999999	0.0437616	0.999999
rad21	8.53516e-07	1.000000	8.53516e-07	1.000000
rad13	2.11156e-08	1.000000	2.11156e-08	1.000000
rad7	7.33941e-09	1.000000	7.33941e-09	1.000000
rad20	2.45271e-09	1.000000	2.45271e-09	1.000000
rad25	1.22328e-09	1.000000	1.22328e-09	1.000000
rad22	9.38644e-10	1.000000	9.38644e-10	1.000000
PhCHCCH2+H	4.46738e-10	1.000000	4.46738e-10	1.000000
rad33	2.79596e-10	1.000000	2.79596e-10	1.000000
rad24	1.37876e-10	1.000000	1.37876e-10	1.000000
Phenyl+Allene	6.49910e-11	1.000000	0.000000	1.000000
rad9	3.89570e-11	1.000000	3.89570e-11	1.000000
rad45	1.72381e-11	1.000000	1.72381e-11	1.000000
PhCH2CCH+H	3.20094e-12	1.000000	3.20094e-12	1.000000
rad36	2.96813e-12	1.000000	2.96813e-12	1.000000
rad18	8.06854e-13	1.000000	8.06854e-13	1.000000
C2H2+PhCH2	4.84781e-14	1.000000	4.84781e-14	1.000000
rad3	3.05336e-14	1.000000	3.05336e-14	1.000000
rad4	2.34911e-14	1.000000	2.34911e-14	1.000000
Indene+H	1.22299e-14	1.000000	1.22299e-14	1.000000
rad28	3.52844e-15	1.000000	3.52844e-15	1.000000
rad23	2.26083e-15	1.000000	2.26083e-15	1.000000
rad8	1.02996e-17	1.000000	1.02996e-17	1.000000
PAH7+H	4.55574e-18	1.000000	4.55574e-18	1.000000
rad2	4.13628e-19	1.000000	4.13628e-19	1.000000
rad1	9.64414e-20	1.000000	9.64414e-20	1.000000
PhCCH+CH3	7.94556e-20	1.000000	7.94556e-20	1.000000
rad31	1.57501e-20	1.000000	1.57501e-20	1.000000
rad30	1.75649e-21	1.000000	1.75649e-21	1.000000
rad14	1.68532e-21	1.000000	1.68532e-21	1.000000
Ph+MeAc	6.31295e-22	1.000000	6.31295e-22	1.000000
rad15	4.74916e-22	1.000000	4.74916e-22	1.000000
rad26	7.21151e-23	1.000000	7.21151e-23	1.000000
rad54	3.30688e-23	1.000000	3.30688e-23	1.000000
rad38	2.54117e-23	1.000000	2.54117e-23	1.000000
rad70	9.08887e-24	1.000000	9.08887e-24	1.000000
rad19syn	6.40520e-24	1.000000	6.40520e-24	1.000000
rad60syn	1.34827e-24	1.000000	1.34827e-24	1.000000
rad46	1.23364e-24	1.000000	1.23364e-24	1.000000
rad10	6.22268e-25	1.000000	6.22268e-25	1.000000
rad60anti	5.69966e-25	1.000000	5.69966e-25	1.000000
rad39	4.63857e-25	1.000000	4.63857e-25	1.000000
PAH3+H	1.27127e-25	1.000000	1.27127e-25	1.000000
rad55	1.02405e-25	1.000000	1.02405e-25	1.000000
rad35	6.49622e-26	1.000000	6.49622e-26	1.000000
rad34	4.28483e-26	1.000000	4.28483e-26	1.000000
rad59	3.07713e-26	1.000000	3.07713e-26	1.000000

PhCCCH3+H	1.51625e-26	1.000000	1.51625e-26	1.000000
PAH9+H	6.21058e-27	1.000000	6.21058e-27	1.000000
rad27	5.12189e-27	1.000000	5.12189e-27	1.000000
PhcycC3H3_A+H	5.04170e-27	1.000000	5.04170e-27	1.000000
rad50	1.27272e-27	1.000000	1.27272e-27	1.000000
rad52	2.44711e-30	1.000000	2.44711e-30	1.000000
rad5	5.34005e-31	1.000000	5.34005e-31	1.000000
rad51	3.59458e-31	1.000000	3.59458e-31	1.000000
rad58	1.64627e-31	1.000000	1.64627e-31	1.000000
rad12	1.22993e-31	1.000000	1.22993e-31	1.000000
rad62	2.90830e-32	1.000000	2.90830e-32	1.000000
rad37	2.14551e-32	1.000000	2.14551e-32	1.000000
rad47	7.49299e-33	1.000000	7.49299e-33	1.000000
PAH1+H	1.52502e-33	1.000000	1.52502e-33	1.000000
PAH10+CH3	8.07522e-36	1.000000	8.07522e-36	1.000000
rad42	6.36396e-37	1.000000	6.36396e-37	1.000000
rad65	5.75399e-37	1.000000	5.75399e-37	1.000000
rad43	4.56842e-37	1.000000	4.56842e-37	1.000000
rad41	2.25458e-42	1.000000	2.25458e-42	1.000000

100000000. Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.55893e-16 (1.00)	3.55893e-16 (1.00)
Formation of rad11	2.62555e-16 (0.738)	2.62555e-16 (0.738)
Formation of rad6	7.62093e-17 (0.214)	7.62093e-17 (0.214)
H-abstraction	1.71289e-17 (0.0481)	1.71289e-17 (0.0481)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.737722	0.737722	0.737722	0.737722
rad6	0.214148	0.951870	0.214148	0.951870
Benzene+2-propynyl	0.0481294	0.999999	0.0481294	0.999999
rad21	9.61627e-07	1.00000	9.61627e-07	1.00000
rad13	2.47089e-08	1.00000	2.47089e-08	1.00000
rad7	8.65090e-09	1.00000	8.65090e-09	1.00000
rad20	3.03980e-09	1.00000	3.03980e-09	1.00000
rad25	1.48142e-09	1.00000	1.48142e-09	1.00000
rad22	1.16262e-09	1.00000	1.16262e-09	1.00000
PhCHCCH2+H	5.90285e-10	1.00000	5.90285e-10	1.00000
rad33	3.35085e-10	1.00000	3.35085e-10	1.00000
rad24	1.72864e-10	1.00000	1.72864e-10	1.00000
Phenyl+Allene	9.45617e-11	1.00000	0.00000	1.00000
rad9	5.20938e-11	1.00000	5.20938e-11	1.00000
rad45	2.35571e-11	1.00000	2.35571e-11	1.00000
PhCH2CCH+H	5.19236e-12	1.00000	5.19236e-12	1.00000
rad36	4.03627e-12	1.00000	4.03627e-12	1.00000
rad18	1.11955e-12	1.00000	1.11955e-12	1.00000
C2H2+PhCH2	7.55332e-14	1.00000	7.55332e-14	1.00000
rad3	4.27518e-14	1.00000	4.27518e-14	1.00000
rad4	3.28490e-14	1.00000	3.28490e-14	1.00000
Indene+H	1.74996e-14	1.00000	1.74996e-14	1.00000
rad28	5.16614e-15	1.00000	5.16614e-15	1.00000
rad23	3.27413e-15	1.00000	3.27413e-15	1.00000
rad8	1.85620e-17	1.00000	1.85620e-17	1.00000
PAH7+H	8.67018e-18	1.00000	8.67018e-18	1.00000
rad2	7.11045e-19	1.00000	7.11045e-19	1.00000
rad1	1.65115e-19	1.00000	1.65115e-19	1.00000
PhCCH+CH3	1.54931e-19	1.00000	1.54931e-19	1.00000
rad31	2.30098e-20	1.00000	2.30098e-20	1.00000
rad30	3.29539e-21	1.00000	3.29539e-21	1.00000
rad14	3.11906e-21	1.00000	3.11906e-21	1.00000
Ph+MeAc	1.35092e-21	1.00000	1.35092e-21	1.00000
rad15	9.11211e-22	1.00000	9.11211e-22	1.00000
rad26	1.54039e-22	1.00000	1.54039e-22	1.00000
rad54	7.66352e-23	1.00000	7.66352e-23	1.00000
rad38	5.17000e-23	1.00000	5.17000e-23	1.00000
rad70	2.37538e-23	1.00000	2.37538e-23	1.00000
rad19syn	1.43116e-23	1.00000	1.43116e-23	1.00000
rad60syn	2.90196e-24	1.00000	2.90196e-24	1.00000
rad46	2.59417e-24	1.00000	2.59417e-24	1.00000
rad10	1.32971e-24	1.00000	1.32971e-24	1.00000
rad60anti	1.24027e-24	1.00000	1.24027e-24	1.00000
rad39	9.76505e-25	1.00000	9.76505e-25	1.00000
PAH3+H	3.09664e-25	1.00000	3.09664e-25	1.00000
rad55	2.56828e-25	1.00000	2.56828e-25	1.00000
rad35	1.49987e-25	1.00000	1.49987e-25	1.00000
rad34	1.18574e-25	1.00000	1.18574e-25	1.00000
rad59	7.40598e-26	1.00000	7.40598e-26	1.00000

PhCCCH3+H	3.64934e-26	1.00000	3.64934e-26	1.00000
PAH9+H	1.28759e-26	1.00000	1.28759e-26	1.00000
PhcycC3H3_A+H	1.27690e-26	1.00000	1.27690e-26	1.00000
rad27	1.15845e-26	1.00000	1.15845e-26	1.00000
rad50	3.26873e-27	1.00000	3.26873e-27	1.00000
rad52	7.26999e-30	1.00000	7.26999e-30	1.00000
rad5	1.46703e-30	1.00000	1.46703e-30	1.00000
rad51	1.14402e-30	1.00000	1.14402e-30	1.00000
rad58	4.82413e-31	1.00000	4.82413e-31	1.00000
rad12	3.22426e-31	1.00000	3.22426e-31	1.00000
rad62	8.09855e-32	1.00000	8.09855e-32	1.00000
rad37	5.76885e-32	1.00000	5.76885e-32	1.00000
rad47	2.49502e-32	1.00000	2.49502e-32	1.00000
PAH1+H	4.15055e-33	1.00000	4.15055e-33	1.00000
PAH10+CH3	2.35659e-35	1.00000	2.35659e-35	1.00000
rad42	1.91202e-36	1.00000	1.91202e-36	1.00000
rad65	1.70157e-36	1.00000	1.70157e-36	1.00000
rad43	1.38620e-36	1.00000	1.38620e-36	1.00000
rad41	7.35044e-42	1.00000	7.35044e-42	1.00000

100000000. Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34395e-16 (1.00)	6.34395e-16 (1.00)
Formation of rad11	4.51153e-16 (0.711)	4.51153e-16 (0.711)
Formation of rad6	1.51589e-16 (0.239)	1.51589e-16 (0.239)
H-abstraction	3.16530e-17 (0.0499)	3.16530e-17 (0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.711125	0.711125	0.711125	0.711125
rad6	0.238977	0.950102	0.238977	0.950102
Benzene+2-propynyl	0.0498949	0.999997	0.0498949	0.999997
rad21	2.16392e-06	0.999999	2.16392e-06	0.999999
rad13	4.55764e-08	0.999999	4.55764e-08	0.999999
rad7	1.62797e-08	0.999999	1.62797e-08	0.999999
rad20	1.29709e-08	0.999999	1.29709e-08	0.999999
rad22	5.43530e-09	0.999999	5.43530e-09	0.999999
rad25	4.51787e-09	0.999999	4.51787e-09	0.999999
PhCHCCH2+H	2.63421e-09	0.999999	2.63421e-09	0.999999
rad24	7.96093e-10	0.999999	7.96093e-10	0.999999
rad33	6.29560e-10	0.999999	6.29560e-10	0.999999
Phenyl+Allene	4.24257e-10	0.999999	0.00000	0.999999
rad9	2.56874e-10	0.999999	2.56874e-10	0.999999
rad45	2.35562e-10	0.999999	2.35562e-10	0.999999
PhCH2CCH+H	6.08065e-11	0.999999	6.08065e-11	0.999999
rad36	2.87606e-11	0.999999	2.87606e-11	0.999999
rad18	1.25436e-11	0.999999	1.25436e-11	0.999999
C2H2+PhCH2	2.66050e-12	0.999999	2.66050e-12	0.999999
Indene+H	2.72304e-13	0.999999	2.72304e-13	0.999999
rad3	2.18434e-13	0.999999	2.18434e-13	0.999999
rad4	1.66412e-13	0.999999	1.66412e-13	0.999999
rad23	6.04006e-14	0.999999	6.04006e-14	0.999999
rad28	3.55977e-14	0.999999	3.55977e-14	0.999999
rad15	3.62722e-15	0.999999	3.62722e-15	0.999999
rad12	3.54337e-15	0.999999	3.54337e-15	0.999999
PAH7+H	4.48642e-16	0.999999	4.48642e-16	0.999999
rad8	4.35889e-16	0.999999	4.35889e-16	0.999999
rad2	1.86644e-17	0.999999	1.86644e-17	0.999999
PhCCH+CH3	1.46876e-17	0.999999	1.46876e-17	0.999999
rad1	4.16069e-18	0.999999	4.16069e-18	0.999999
rad19anti	2.69625e-18	0.999999	2.69625e-18	0.999999
rad30	6.96084e-19	0.999999	6.96084e-19	0.999999
Ph+MeAc	3.53410e-19	0.999999	3.53410e-19	0.999999
rad14	1.62762e-19	0.999999	1.62762e-19	0.999999
rad31	1.41082e-19	0.999999	1.41082e-19	0.999999
rad26	5.64996e-20	0.999999	5.64996e-20	0.999999
rad70	4.97137e-20	0.999999	4.97137e-20	0.999999
rad38	4.84749e-20	0.999999	4.84749e-20	0.999999
rad54	1.30288e-20	0.999999	1.30288e-20	0.999999
rad46	4.43480e-21	0.999999	4.43480e-21	0.999999
rad60syn	2.60638e-21	0.999999	2.60638e-21	0.999999
PAH3+H	1.75903e-21	0.999999	1.75903e-21	0.999999
rad34	1.73103e-21	0.999999	1.73103e-21	0.999999
rad19syn	1.52575e-21	0.999999	1.52575e-21	0.999999
rad60anti	1.29439e-21	0.999999	1.29439e-21	0.999999
rad10	4.97620e-22	0.999999	4.97620e-22	0.999999
rad35	3.44814e-22	0.999999	3.44814e-22	0.999999
rad59	3.02997e-22	0.999999	3.02997e-22	0.999999

rad50	1.62844e-22	0.999999	1.62844e-22	0.999999
rad55	1.61671e-22	0.999999	1.61671e-22	0.999999
rad39	1.52529e-22	0.999999	1.52529e-22	0.999999
PhCCCH3+H	1.09530e-22	0.999999	1.09530e-22	0.999999
PAH9+H	5.23315e-23	0.999999	5.23315e-23	0.999999
PhcycC3H3_A+H	1.88187e-23	0.999999	1.88187e-23	0.999999
rad27	1.08474e-23	0.999999	1.08474e-23	0.999999
rad51	6.29655e-24	0.999999	6.29655e-24	0.999999
rad52	5.24163e-24	0.999999	5.24163e-24	0.999999
rad47	4.46978e-24	0.999999	4.46978e-24	0.999999
rad5	5.93061e-25	0.999999	5.93061e-25	0.999999
rad67	5.63967e-25	0.999999	5.63967e-25	0.999999
rad58	2.58249e-25	0.999999	2.58249e-25	0.999999
rad53	1.50227e-25	0.999999	1.50227e-25	0.999999
rad68syn	1.22111e-25	0.999999	1.22111e-25	0.999999
rad68anti	8.63752e-26	0.999999	8.63752e-26	0.999999
rad62	4.46110e-26	0.999999	4.46110e-26	0.999999
rad56	7.14175e-27	0.999999	7.14175e-27	0.999999
rad37	3.65968e-27	0.999999	3.65968e-27	0.999999
PAH8+H	2.66352e-27	0.999999	2.66352e-27	0.999999
rad40syn	2.21675e-27	0.999999	2.21675e-27	0.999999
PAH1+H	1.58124e-27	0.999999	1.58124e-27	0.999999
rad73	7.04060e-28	0.999999	7.04060e-28	0.999999
rad40anti	5.33272e-28	0.999999	5.33272e-28	0.999999
rad65	4.38326e-28	0.999999	4.38326e-28	0.999999
rad42	4.31097e-28	0.999999	4.31097e-28	0.999999
rad71	3.17755e-28	0.999999	3.17755e-28	0.999999
PAH10+CH3	1.45857e-28	0.999999	1.45857e-28	0.999999
rad43	5.81244e-29	0.999999	5.81244e-29	0.999999
rad64	1.71926e-30	0.999999	1.71926e-30	0.999999
rad72	8.99427e-31	0.999999	8.99427e-31	0.999999
rad41	6.03126e-31	0.999999	6.03126e-31	0.999999
rad61	1.21189e-32	0.999999	1.21189e-32	0.999999

100000000. Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.11288e-15 (1.00)	5.11288e-15 (1.00)
Formation of rad11	3.08094e-15 (0.603)	3.08094e-15 (0.603)
Formation of rad6	1.54092e-15 (0.301)	1.54092e-15 (0.301)
H-abstraction	4.91025e-16 (0.0960)	4.91025e-16 (0.0960)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.602501	0.602501	0.602501	0.602501
rad6	0.301454	0.903955	0.301454	0.903955
Benzene+2-propynyl	0.0960368	0.999992	0.0960368	0.999992
rad21	7.17210e-06	0.999999	7.17210e-06	0.999999
rad13	2.14490e-07	0.999999	2.14490e-07	0.999999
rad20	1.09688e-07	0.999999	1.09688e-07	0.999999
rad7	8.33058e-08	0.999999	8.33058e-08	0.999999
rad22	4.63315e-08	0.999999	4.63315e-08	0.999999
PhCHCCH2+H	3.11703e-08	1.000000	3.11703e-08	1.000000
rad25	2.78117e-08	1.000000	2.78117e-08	1.000000
Phenyl+Allene	9.48501e-09	1.000000	0.000000	1.000000
rad24	6.29072e-09	1.000000	6.29072e-09	1.000000
rad45	4.52628e-09	1.000000	4.52628e-09	1.000000
rad33	3.69526e-09	1.000000	3.69526e-09	1.000000
rad9	3.23380e-09	1.000000	3.23380e-09	1.000000
PhCH2CCH+H	2.25186e-09	1.000000	2.25186e-09	1.000000
rad36	4.56689e-10	1.000000	4.56689e-10	1.000000
rad18	3.17323e-10	1.000000	3.17323e-10	1.000000
C2H2+PhCH2	1.70390e-10	1.000000	1.70390e-10	1.000000
Indene+H	1.09508e-11	1.000000	1.09508e-11	1.000000
rad23	5.84481e-12	1.000000	5.84481e-12	1.000000
rad3	5.54077e-12	1.000000	5.54078e-12	1.000000
rad4	4.36062e-12	1.000000	4.36062e-12	1.000000
rad28	1.32458e-12	1.000000	1.32458e-12	1.000000
rad15	1.75498e-13	1.000000	1.75498e-13	1.000000
rad12	1.06602e-13	1.000000	1.06602e-13	1.000000
PAH7+H	6.06078e-14	1.000000	6.06078e-14	1.000000
PhCCH+CH3	3.51295e-14	1.000000	3.51295e-14	1.000000
rad8	3.01540e-14	1.000000	3.01540e-14	1.000000
rad2	8.11139e-15	1.000000	8.11139e-15	1.000000
Ph+MeAc	2.41562e-15	1.000000	2.41562e-15	1.000000
rad1	2.01188e-15	1.000000	2.01188e-15	1.000000
rad38	1.85986e-15	1.000000	1.85986e-15	1.000000
rad46	4.77679e-16	1.000000	4.77679e-16	1.000000
PAH9+H	3.21015e-16	1.000000	3.21015e-16	1.000000

rad19anti	2.92716e-16	1.000000	2.92716e-16	1.000000
rad50	2.76149e-16	1.000000	2.76149e-16	1.000000
rad30	2.37555e-16	1.000000	2.37555e-16	1.000000
rad14	1.92166e-16	1.000000	1.92166e-16	1.000000
rad39	8.56673e-17	1.000000	8.56673e-17	1.000000
rad51	6.80088e-17	1.000000	6.80088e-17	1.000000
rad35	4.85605e-17	1.000000	4.85605e-17	1.000000
rad70	4.22653e-17	1.000000	4.22653e-17	1.000000
rad26	3.73332e-17	1.000000	3.73332e-17	1.000000
rad52	2.26698e-17	1.000000	2.26698e-17	1.000000
PhCCCH3+H	2.04254e-17	1.000000	2.04254e-17	1.000000
rad54	1.77878e-17	1.000000	1.77878e-17	1.000000
rad31	1.58320e-17	1.000000	1.58320e-17	1.000000
rad10	1.52712e-17	1.000000	1.52712e-17	1.000000
rad47	8.67027e-18	1.000000	8.67027e-18	1.000000
PAH3+H	5.14610e-18	1.000000	5.14610e-18	1.000000
rad19syn	3.80792e-18	1.000000	3.80792e-18	1.000000
rad34	3.04313e-18	1.000000	3.04313e-18	1.000000
rad60syn	2.30045e-18	1.000000	2.30045e-18	1.000000
rad60anti	1.23671e-18	1.000000	1.23671e-18	1.000000
rad71	1.11686e-18	1.000000	1.11686e-18	1.000000
rad73	9.07181e-19	1.000000	9.07181e-19	1.000000
PhcycC3H3_A+H	8.56769e-19	1.000000	8.56769e-19	1.000000
rad59	6.93392e-19	1.000000	6.93392e-19	1.000000
rad55	6.50837e-19	1.000000	6.50837e-19	1.000000
rad27	5.22041e-19	1.000000	5.22041e-19	1.000000
PAH10+CH3	4.35223e-19	1.000000	4.35223e-19	1.000000
PAH1+H	3.91764e-19	1.000000	3.91764e-19	1.000000
rad65	2.89552e-19	1.000000	2.89552e-19	1.000000
rad37	2.18277e-19	1.000000	2.18277e-19	1.000000
rad5	1.23927e-19	1.000000	1.23927e-19	1.000000
rad62	5.40626e-20	1.000000	5.40626e-20	1.000000
rad53	3.47853e-20	1.000000	3.47853e-20	1.000000
rad72	2.99193e-20	1.000000	2.99193e-20	1.000000
PAH8+H	2.17823e-20	1.000000	2.17823e-20	1.000000
rad56	1.85038e-20	1.000000	1.85038e-20	1.000000
rad68syn	1.83944e-20	1.000000	1.83944e-20	1.000000
rad58	1.66396e-20	1.000000	1.66396e-20	1.000000
rad67	1.65922e-20	1.000000	1.65922e-20	1.000000
rad68anti	1.22210e-20	1.000000	1.22210e-20	1.000000
rad64	7.16306e-21	1.000000	7.16306e-21	1.000000
rad40syn	3.65870e-21	1.000000	3.65870e-21	1.000000
rad42	1.99411e-21	1.000000	1.99411e-21	1.000000
rad40anti	1.85017e-21	1.000000	1.85017e-21	1.000000
rad43	1.26671e-21	1.000000	1.26671e-21	1.000000
rad61	8.07875e-22	1.000000	8.07875e-22	1.000000
rad41	5.35259e-23	1.000000	5.35259e-23	1.000000

100000000. Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.11551e-14 (1.00)	2.11551e-14 (1.00)
Formation of rad11	1.10850e-14 (0.524)	1.10850e-14 (0.524)
Formation of rad6	7.08033e-15 (0.335)	7.08033e-15 (0.335)
H-abstraction	2.98976e-15 (0.141)	2.98976e-15 (0.141)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.523753	0.523753	0.523753	0.523753
rad6	0.334894	0.858647	0.334894	0.858647
Benzene+2-propynyl	0.141326	0.999973	0.141326	0.999973
rad21	2.42334e-05	0.999997	2.42334e-05	0.999997
rad20	9.34658e-07	0.999998	9.34658e-07	0.999998
rad13	9.02123e-07	0.999999	9.02123e-07	0.999999
rad22	4.07864e-07	0.999999	4.07864e-07	0.999999
rad7	3.91091e-07	0.999999	3.91091e-07	0.999999
PhCHCCH2+H	3.18746e-07	1.000000	3.18746e-07	1.000000
rad25	1.63236e-07	1.000000	1.63236e-07	1.000000
Phenyl+Allene	1.53931e-07	1.000000	0.000000	1.000000
rad45	7.30337e-08	1.000000	7.30337e-08	1.000000
PhCH2CCH+H	5.48854e-08	1.000000	5.48854e-08	1.000000
rad24	4.17266e-08	1.000000	4.17266e-08	1.000000
rad9	3.41478e-08	1.000000	3.41478e-08	1.000000
rad33	1.85064e-08	1.000000	1.85064e-08	1.000000
C2H2+PhCH2	1.21824e-08	1.000000	1.21824e-08	1.000000
rad18	8.25589e-09	1.000000	8.25589e-09	1.000000
rad36	6.79381e-09	1.000000	6.79380e-09	1.000000
rad23	2.28297e-09	1.000000	2.28297e-09	1.000000
Indene+H	1.02800e-09	1.000000	1.02800e-09	1.000000

rad3	1.09968e-10	1.00000	1.09968e-10	1.00000
PhCCH+CH3	9.63063e-11	1.00000	9.63063e-11	1.00000
rad4	9.05755e-11	1.00000	9.05755e-11	1.00000
rad28	7.84724e-11	1.00000	7.84724e-11	1.00000
PAH7+H	2.39689e-11	1.00000	2.39689e-11	1.00000
rad38	2.13134e-11	1.00000	2.13134e-11	1.00000
PAH9+H	1.51891e-11	1.00000	1.51891e-11	1.00000
Ph+MeAc	1.34759e-11	1.00000	1.34759e-11	1.00000
rad15	1.14157e-11	1.00000	1.14157e-11	1.00000
rad50	7.98941e-12	1.00000	7.98941e-12	1.00000
rad46	7.43712e-12	1.00000	7.43712e-12	1.00000
rad39	3.72075e-12	1.00000	3.72075e-12	1.00000
rad2	3.70714e-12	1.00000	3.70714e-12	1.00000
rad51	2.64285e-12	1.00000	2.64285e-12	1.00000
rad12	2.48082e-12	1.00000	2.48082e-12	1.00000
rad35	2.14436e-12	1.00000	2.14436e-12	1.00000
rad8	1.35079e-12	1.00000	1.35079e-12	1.00000
rad1	1.13490e-12	1.00000	1.13490e-12	1.00000
rad19syn	7.63073e-13	1.00000	7.63073e-13	1.00000
rad52	7.49241e-13	1.00000	7.49241e-13	1.00000
rad54	6.85992e-13	1.00000	6.85992e-13	1.00000
rad47	6.49648e-13	1.00000	6.49648e-13	1.00000
PhCCCH3+H	5.79299e-13	1.00000	5.79299e-13	1.00000
PhcycC3H3_A+H	4.88070e-13	1.00000	4.88070e-13	1.00000
rad70	4.37591e-13	1.00000	4.37592e-13	1.00000
rad19anti	4.15128e-13	1.00000	4.15128e-13	1.00000
rad26	4.13852e-13	1.00000	4.13852e-13	1.00000
rad30	3.68393e-13	1.00000	3.68393e-13	1.00000
PAH3+H	2.84104e-13	1.00000	2.84104e-13	1.00000
rad10	1.96452e-13	1.00000	1.96452e-13	1.00000
rad14	1.61149e-13	1.00000	1.61149e-13	1.00000
rad34	9.79266e-14	1.00000	9.79266e-14	1.00000
rad71	7.23224e-14	1.00000	7.23224e-14	1.00000
PAH1+H	7.02243e-14	1.00000	7.02243e-14	1.00000
rad73	5.44165e-14	1.00000	5.44166e-14	1.00000
PAH10+CH3	5.05286e-14	1.00000	5.05286e-14	1.00000
rad55	4.95299e-14	1.00000	4.95299e-14	1.00000
rad59	2.82467e-14	1.00000	2.82467e-14	1.00000
rad60syn	2.63032e-14	1.00000	2.63032e-14	1.00000
rad65	2.32437e-14	1.00000	2.32437e-14	1.00000
rad37	2.15462e-14	1.00000	2.15462e-14	1.00000
rad60anti	1.61712e-14	1.00000	1.61712e-14	1.00000
PAH8+H	1.33071e-14	1.00000	1.33071e-14	1.00000
rad56	1.30700e-14	1.00000	1.30700e-14	1.00000
rad53	1.28695e-14	1.00000	1.28695e-14	1.00000
rad67	1.26733e-14	1.00000	1.26733e-14	1.00000
rad68syn	5.28182e-15	1.00000	5.28182e-15	1.00000
rad62	5.18928e-15	1.00000	5.18928e-15	1.00000
rad31	3.58301e-15	1.00000	3.58301e-15	1.00000
rad68anti	3.45141e-15	1.00000	3.45141e-15	1.00000
rad58	2.60958e-15	1.00000	2.60958e-15	1.00000
rad27	2.56506e-15	1.00000	2.56506e-15	1.00000
rad72	2.22594e-15	1.00000	2.22594e-15	1.00000
rad40syn	1.71874e-15	1.00000	1.71874e-15	1.00000
rad5	1.65918e-15	1.00000	1.65918e-15	1.00000
rad64	1.30960e-15	1.00000	1.30960e-15	1.00000
rad40anti	9.77841e-16	1.00000	9.77841e-16	1.00000
rad42	3.91311e-16	1.00000	3.91311e-16	1.00000
rad43	2.61764e-16	1.00000	2.61764e-16	1.00000
rad61	1.08025e-16	1.00000	1.08025e-16	1.00000
rad41	1.91266e-17	1.00000	1.91266e-17	1.00000

100000000. Pa, 600.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.08120e-14 (1.00)	6.08118e-14 (1.00)
Formation of rad11	2.83304e-14 (0.466)	2.83304e-14 (0.466)
Formation of rad6	2.13840e-14 (0.352)	2.13840e-14 (0.352)
H-abstraction	1.10975e-14 (0.182)	1.10975e-14 (0.182)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.465185	0.465185	0.465187	0.465187
rad6	0.352223	0.817409	0.352225	0.817412
Benzene+2-propynyl	0.182488	0.999897	0.182489	0.999900
rad21	7.64647e-05	0.999973	7.64649e-05	0.999977
rad20	7.00415e-06	0.999980	7.00417e-06	0.999984
rad22	3.53907e-06	0.999984	3.53908e-06	0.999987
rad13	3.26723e-06	0.999987	3.26723e-06	0.999991

PhCHCCH2+H	3.07496e-06	0.999990	3.07497e-06	0.999994
Phenyl+Allene	2.58903e-06	0.999993	0.00000	0.999994
rad7	1.79037e-06	0.999995	1.79037e-06	0.999995
PhCH2CCH+H	1.41500e-06	0.999996	1.41501e-06	0.999997
rad45	9.64754e-07	0.999997	9.64753e-07	0.999998
rad25	8.55444e-07	0.999998	8.55452e-07	0.999999
C2H2+PhCH2	7.96278e-07	0.999999	7.96280e-07	0.999999
rad9	3.38031e-07	0.999999	3.38032e-07	1.000000
rad24	2.33333e-07	0.999999	2.33334e-07	1.000000
rad18	1.87392e-07	1.000000	1.87392e-07	1.000000
Indene+H	9.60666e-08	1.000000	9.60666e-08	1.000000
rad23	9.18417e-08	1.000000	9.18425e-08	1.000000
rad36	8.98012e-08	1.000000	8.98020e-08	1.000000
rad33	7.35052e-08	1.000000	7.35054e-08	1.000000
PhCCH+CH3	2.42972e-08	1.000000	2.42973e-08	1.000000
rad28	8.91358e-09	1.000000	8.91365e-09	1.000000
PAH7+H	6.24269e-09	1.000000	6.24271e-09	1.000000
Ph+MeAc	4.21440e-09	1.000000	4.21441e-09	1.000000
rad3	1.76064e-09	1.000000	1.76065e-09	1.000000
rad4	1.44816e-09	1.000000	1.44816e-09	1.000000
rad38	1.29065e-09	1.000000	1.29066e-09	1.000000
PAH9+H	1.12173e-09	1.000000	1.12174e-09	1.000000
rad15	1.04556e-09	1.000000	1.04556e-09	1.000000
rad19syn	6.46832e-10	1.000000	6.46834e-10	1.000000
rad39	5.95582e-10	1.000000	5.95583e-10	1.000000
rad50	5.31108e-10	1.000000	5.31109e-10	1.000000
PhcycC3H3_A+H	4.76801e-10	1.000000	4.76801e-10	1.000000
rad46	4.71540e-10	1.000000	4.71541e-10	1.000000
rad54	4.33810e-10	1.000000	4.33812e-10	1.000000
rad19anti	2.94723e-10	1.000000	2.94723e-10	1.000000
rad2	2.20963e-10	1.000000	2.20963e-10	1.000000
PhCCCH3+H	1.93146e-10	1.000000	1.93147e-10	1.000000
rad51	1.74758e-10	1.000000	1.74759e-10	1.000000
rad35	1.68394e-10	1.000000	1.68395e-10	1.000000
rad70	1.59156e-10	1.000000	1.59157e-10	1.000000
rad47	1.50676e-10	1.000000	1.50676e-10	1.000000
PAH3+H	1.05264e-10	1.000000	1.05264e-10	1.000000
rad30	9.35299e-11	1.000000	9.35298e-11	1.000000
rad26	7.54773e-11	1.000000	7.54775e-11	1.000000
rad12	7.49577e-11	1.000000	7.49579e-11	1.000000
rad1	7.41933e-11	1.000000	7.41935e-11	1.000000
rad52	4.89519e-11	1.000000	4.89520e-11	1.000000
rad34	4.08558e-11	1.000000	4.08559e-11	1.000000
rad8	4.06420e-11	1.000000	4.06422e-11	1.000000
PAH1+H	4.06174e-11	1.000000	4.06175e-11	1.000000
rad10	3.48737e-11	1.000000	3.48738e-11	1.000000
rad55	3.37184e-11	1.000000	3.37186e-11	1.000000
rad67	1.58327e-11	1.000000	1.58327e-11	1.000000
rad56	1.24790e-11	1.000000	1.24791e-11	1.000000
rad53	1.11399e-11	1.000000	1.11399e-11	1.000000
rad14	1.03875e-11	1.000000	1.03875e-11	1.000000
rad59	1.00879e-11	1.000000	1.00880e-11	1.000000
PAH8+H	9.70991e-12	1.000000	9.70991e-12	1.000000
PAH10+CH3	9.01437e-12	1.000000	9.01437e-12	1.000000
rad60syn	8.46615e-12	1.000000	8.46615e-12	1.000000
rad60anti	5.26597e-12	1.000000	5.26598e-12	1.000000
rad37	3.95613e-12	1.000000	3.95614e-12	1.000000
rad71	3.71648e-12	1.000000	3.71650e-12	1.000000
rad62	3.42644e-12	1.000000	3.42644e-12	1.000000
rad68syn	3.12813e-12	1.000000	3.12813e-12	1.000000
rad73	2.88682e-12	1.000000	2.88683e-12	1.000000
rad68anti	2.03578e-12	1.000000	2.03578e-12	1.000000
rad65	1.79871e-12	1.000000	1.79871e-12	1.000000
rad40syn	1.15777e-12	1.000000	1.15778e-12	1.000000
rad58	1.10138e-12	1.000000	1.10139e-12	1.000000
rad31	8.34254e-13	1.000000	8.34254e-13	1.000000
rad64	7.57977e-13	1.000000	7.57979e-13	1.000000
rad40anti	6.81294e-13	1.000000	6.81296e-13	1.000000
rad42	3.09631e-13	1.000000	3.09632e-13	1.000000
rad5	2.52408e-13	1.000000	2.52409e-13	1.000000
rad27	1.99889e-13	1.000000	1.99890e-13	1.000000
rad43	1.54898e-13	1.000000	1.54899e-13	1.000000
rad72	1.10149e-13	1.000000	1.10150e-13	1.000000
rad61	1.87594e-14	1.000000	1.87594e-14	1.000000
rad41	1.35306e-14	1.000000	1.35305e-14	1.000000

100000000. Pa, 700.000000 K

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Rate constant | True (fraction) | Effective (fraction)

Total	1.39564e-13	(1.00)	1.39559e-13	(1.00)
Formation of rad11	5.88273e-14	(0.422)	5.88251e-14	(0.422)
Formation of rad6	5.01684e-14	(0.359)	5.01665e-14	(0.359)
H-abstraction	3.05678e-14	(0.219)	3.05678e-14	(0.219)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.419426	0.419426	0.419439	0.419439
rad6	0.361133	0.780559	0.361144	0.780583
Benzene+2-propynyl	0.219024	0.999584	0.219031	0.999613
rad21	0.000213958	0.999798	0.000213964	0.999827
rad20	3.53618e-05	0.999833	3.53628e-05	0.999863
Phenyl+Allene	2.94833e-05	0.999863	0.00000	0.999863
rad22	2.70747e-05	0.999890	2.70755e-05	0.999890
PhCHCCH2+H	2.64474e-05	0.999916	2.64481e-05	0.999916
C2H2+PhCH2	2.14150e-05	0.999937	2.14156e-05	0.999938
PhCH2CCH+H	1.84283e-05	0.999956	1.84288e-05	0.999956
rad45	1.03745e-05	0.999966	1.03748e-05	0.999966
rad13	9.54844e-06	0.999976	9.54868e-06	0.999976
rad7	7.53892e-06	0.999983	7.53914e-06	0.999984
rad25	3.99657e-06	0.999987	3.99668e-06	0.999988
rad9	2.91910e-06	0.999990	2.91918e-06	0.999990
Indene+H	2.65417e-06	0.999993	2.65425e-06	0.999993
rad18	2.28303e-06	0.999995	2.28309e-06	0.999995
rad24	1.34240e-06	0.999997	1.34243e-06	0.999997
rad23	1.22683e-06	0.999998	1.22687e-06	0.999998
rad36	1.09148e-06	0.999999	1.09151e-06	0.999999
PhCCH+CH3	3.55647e-07	0.999999	3.55657e-07	0.999999
rad33	2.24074e-07	0.999999	2.24081e-07	1.000000
rad28	1.13094e-07	1.000000	1.13098e-07	1.000000
PAH7+H	1.08459e-07	1.000000	1.08462e-07	1.000000
Ph+MeAc	6.44638e-08	1.000000	6.44657e-08	1.000000
rad15	2.15658e-08	1.000000	2.15664e-08	1.000000
rad38	1.65999e-08	1.000000	1.66004e-08	1.000000
PAH9+H	1.59185e-08	1.000000	1.59190e-08	1.000000
rad3	1.44067e-08	1.000000	1.44072e-08	1.000000
rad19anti	1.20173e-08	1.000000	1.20176e-08	1.000000
rad19syn	1.18517e-08	1.000000	1.18521e-08	1.000000
rad4	1.18315e-08	1.000000	1.18319e-08	1.000000
rad39	1.00152e-08	1.000000	1.00155e-08	1.000000
PhcycC3H3_A+H	9.03448e-09	1.000000	9.03480e-09	1.000000
rad54	7.31980e-09	1.000000	7.32002e-09	1.000000
rad50	7.08004e-09	1.000000	7.08025e-09	1.000000
rad46	6.24615e-09	1.000000	6.24633e-09	1.000000
rad2	3.22110e-09	1.000000	3.22120e-09	1.000000
rad30	3.21782e-09	1.000000	3.21792e-09	1.000000
PhCCCH3+H	3.10948e-09	1.000000	3.10957e-09	1.000000
rad47	3.03871e-09	1.000000	3.03880e-09	1.000000
rad12	2.82501e-09	1.000000	2.82509e-09	1.000000
rad35	2.64219e-09	1.000000	2.64227e-09	1.000000
PAH3+H	2.45975e-09	1.000000	2.45983e-09	1.000000
rad70	2.40139e-09	1.000000	2.40146e-09	1.000000
rad51	2.28633e-09	1.000000	2.28640e-09	1.000000
rad26	1.46479e-09	1.000000	1.46483e-09	1.000000
rad1	1.04063e-09	1.000000	1.04066e-09	1.000000
rad8	8.42212e-10	1.000000	8.42236e-10	1.000000
PAH1+H	8.11832e-10	1.000000	8.11857e-10	1.000000
rad67	7.41748e-10	1.000000	7.41770e-10	1.000000
rad52	6.38399e-10	1.000000	6.38418e-10	1.000000
rad34	6.14929e-10	1.000000	6.14948e-10	1.000000
rad55	5.77223e-10	1.000000	5.77240e-10	1.000000
rad10	5.07680e-10	1.000000	5.07695e-10	1.000000
rad59	2.45898e-10	1.000000	2.45905e-10	1.000000
rad60syn	2.34399e-10	1.000000	2.34406e-10	1.000000
rad56	2.30098e-10	1.000000	2.30105e-10	1.000000
PAH10+CH3	2.09051e-10	1.000000	2.09057e-10	1.000000
rad53	2.00828e-10	1.000000	2.00834e-10	1.000000
PAH8+H	1.59703e-10	1.000000	1.59708e-10	1.000000
rad60anti	1.43795e-10	1.000000	1.43799e-10	1.000000
rad14	9.09079e-11	1.000000	9.09103e-11	1.000000
rad37	9.00527e-11	1.000000	9.00559e-11	1.000000
rad62	6.06394e-11	1.000000	6.06412e-11	1.000000
rad68syn	4.91051e-11	1.000000	4.91065e-11	1.000000
rad31	4.85805e-11	1.000000	4.85820e-11	1.000000
rad71	4.34633e-11	1.000000	4.34645e-11	1.000000
rad73	3.41014e-11	1.000000	3.41024e-11	1.000000
rad68anti	3.19318e-11	1.000000	3.19328e-11	1.000000
rad65	2.60667e-11	1.000000	2.60675e-11	1.000000
rad58	2.25908e-11	1.000000	2.25915e-11	1.000000
rad40syn	1.86850e-11	1.000000	1.86855e-11	1.000000

rad64	1.53316e-11	1.000000	1.53320e-11	1.00000
rad40anti	1.10831e-11	1.000000	1.10834e-11	1.00000
rad42	5.71798e-12	1.000000	5.71815e-12	1.00000
rad5	4.47489e-12	1.000000	4.47502e-12	1.00000
rad43	2.79097e-12	1.000000	2.79106e-12	1.00000
rad27	1.95402e-12	1.000000	1.95408e-12	1.00000
rad72	1.27973e-12	1.000000	1.27977e-12	1.00000
rad61	4.43515e-13	1.000000	4.43528e-13	1.00000
rad41	2.53803e-13	1.000000	2.53810e-13	1.00000

100000000. Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.75392e-13 (1.00)	2.75313e-13 (1.00)
Formation of rad11	1.06471e-13 (0.387)	1.06430e-13 (0.387)
Formation of rad6	9.97133e-14 (0.362)	9.96751e-14 (0.362)
H-abstraction	6.92082e-14 (0.251)	6.92082e-14 (0.251)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.379430	0.379430	0.379538	0.379538
rad6	0.367219	0.746649	0.367325	0.746863
Benzene+2-propynyl	0.251308	0.997957	0.251380	0.998243
rad21	0.000561501	0.998518	0.000561662	0.998805
Phenyl+Allene	0.000286710	0.998805	0.000000	0.998805
C2H2+PhCH2	0.000247849	0.999053	0.000247920	0.999053
PhCHCCH2+H	0.000234595	0.999287	0.000234662	0.999287
PhCH2CCH+H	0.000216797	0.999504	0.000216859	0.999504
rad22	0.000134239	0.999639	0.000134278	0.999638
rad20	0.000102089	0.999741	0.000102119	0.999740
rad45	7.81545e-05	0.999819	7.81769e-05	0.999819
Indene+H	4.50615e-05	0.999864	4.50745e-05	0.999864
rad9	2.71673e-05	0.999891	2.71751e-05	0.999891
rad7	2.70676e-05	0.999918	2.70754e-05	0.999918
rad13	2.22032e-05	0.999940	2.22096e-05	0.999940
rad25	1.61184e-05	0.999956	1.61230e-05	0.999956
rad23	1.14508e-05	0.999968	1.14540e-05	0.999968
rad18	9.43300e-06	0.999977	9.43568e-06	0.999977
rad36	9.23197e-06	0.999986	9.23460e-06	0.999986
rad24	7.31106e-06	0.999994	7.31315e-06	0.999994
PhCCH+CH3	1.91619e-06	0.999996	1.91674e-06	0.999996
PAH7+H	1.12119e-06	0.999997	1.12151e-06	0.999997
rad28	6.74030e-07	0.999998	6.74223e-07	0.999997
rad33	6.43794e-07	0.999998	6.43979e-07	0.999998
Ph+MeAc	3.66315e-07	0.999999	3.66420e-07	0.999998
rad19anti	1.86032e-07	0.999999	1.86086e-07	0.999999
rad15	1.76181e-07	0.999999	1.76231e-07	0.999999
PAH9+H	1.33656e-07	0.999999	1.33694e-07	0.999999
rad38	1.23816e-07	0.999999	1.23851e-07	0.999999
rad12	1.14141e-07	0.999999	1.14174e-07	0.999999
rad3	7.59930e-08	0.999999	7.60141e-08	0.999999
rad30	6.82375e-08	0.999999	6.82570e-08	0.999999
rad39	6.72528e-08	0.999999	6.72721e-08	0.999999
rad19syn	6.66809e-08	1.000000	6.67000e-08	0.999999
rad4	6.46610e-08	1.000000	6.46794e-08	1.000000
PAH3+H	6.38279e-08	1.000000	6.38462e-08	1.000000
rad50	5.37007e-08	1.000000	5.37161e-08	1.000000
PhcycC3H3_A+H	5.13552e-08	1.000000	5.13699e-08	1.000000
rad46	4.68693e-08	1.000000	4.68828e-08	1.000000
rad54	3.96975e-08	1.000000	3.97088e-08	1.000000
rad70	3.02655e-08	1.000000	3.02742e-08	1.000000
rad47	2.77948e-08	1.000000	2.78027e-08	1.000000
rad35	2.74828e-08	1.000000	2.74907e-08	1.000000
rad2	2.63549e-08	1.000000	2.63624e-08	1.000000
PhCCCH3+H	2.25480e-08	1.000000	2.25545e-08	1.000000
rad51	1.74677e-08	1.000000	1.74728e-08	1.000000
rad26	1.65966e-08	1.000000	1.66014e-08	1.000000
rad8	1.49072e-08	1.000000	1.49115e-08	1.000000
rad67	1.26125e-08	1.000000	1.26161e-08	1.000000
rad1	8.88743e-09	1.000000	8.88994e-09	1.000000
rad34	6.86613e-09	1.000000	6.86810e-09	1.000000
rad59	6.36246e-09	1.000000	6.36428e-09	1.000000
rad60syn	5.80284e-09	1.000000	5.80451e-09	1.000000
PAH1+H	5.37146e-09	1.000000	5.37300e-09	1.000000
rad52	4.85733e-09	1.000000	4.85872e-09	1.000000
rad10	4.16191e-09	1.000000	4.16310e-09	1.000000
rad60anti	3.58217e-09	1.000000	3.58320e-09	1.000000
rad55	3.14295e-09	1.000000	3.14385e-09	1.000000
PAH10+CH3	2.59905e-09	1.000000	2.59979e-09	1.000000

rad56	1.28873e-09	1.00000	1.28910e-09	1.00000
PAH8+H	1.13619e-09	1.00000	1.13652e-09	1.00000
rad53	1.11399e-09	1.00000	1.11431e-09	1.00000
rad37	1.10823e-09	1.00000	1.10854e-09	1.00000
rad58	5.72375e-10	1.00000	5.72539e-10	1.00000
rad31	5.42643e-10	1.00000	5.42798e-10	1.00000
rad14	4.49543e-10	1.00000	4.49672e-10	1.00000
rad68syn	4.01843e-10	1.00000	4.01958e-10	1.00000
rad62	3.48469e-10	1.00000	3.48569e-10	1.00000
rad71	3.31859e-10	1.00000	3.31954e-10	1.00000
rad68anti	2.62139e-10	1.00000	2.62214e-10	1.00000
rad73	2.58377e-10	1.00000	2.58451e-10	1.00000
rad65	2.20073e-10	1.00000	2.20136e-10	1.00000
rad40syn	1.39504e-10	1.00000	1.39544e-10	1.00000
rad64	1.01987e-10	1.00000	1.02016e-10	1.00000
rad40anti	8.10182e-11	1.00000	8.10419e-11	1.00000
rad5	4.62371e-11	1.00000	4.62504e-11	1.00000
rad42	3.34690e-11	1.00000	3.34787e-11	1.00000
rad43	2.02514e-11	1.00000	2.02572e-11	1.00000
rad27	1.42403e-11	1.00000	1.42444e-11	1.00000
rad72	9.92788e-12	1.00000	9.93075e-12	1.00000
rad61	5.58703e-12	1.00000	5.58863e-12	1.00000
rad41	1.86812e-12	1.00000	1.86866e-12	1.00000

100000000. Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.88072e-13 (1.00)	4.86719e-13 (1.00)
Formation of rad11	1.74945e-13 (0.358)	1.74272e-13 (0.358)
Formation of rad6	1.76509e-13 (0.362)	1.75829e-13 (0.361)
H-abstraction	1.36618e-13 (0.280)	1.36618e-13 (0.281)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.378300	0.378300	0.379352	0.379352
rad11	0.329071	0.707371	0.329986	0.709337
Benzene+2-propynyl	0.279914	0.987285	0.280692	0.990029
Phenyl+Allene	0.00277186	0.990057	0.000000	0.990029
PhCH2CCH+H	0.00252610	0.992583	0.00253312	0.992562
PhCHCCH2+H	0.00203716	0.994620	0.00204282	0.994605
rad21	0.00158911	0.996209	0.00159353	0.996198
C2H2+PhCH2	0.00158292	0.997792	0.00158732	0.997786
rad45	0.000443686	0.998236	0.000444919	0.998231
Indene+H	0.000408727	0.998644	0.000409863	0.998641
rad22	0.000403554	0.999048	0.000404676	0.999045
rad9	0.000259072	0.999307	0.000259793	0.999305
rad20	0.000256948	0.999564	0.000257663	0.999563
rad7	0.000106361	0.999670	0.000106657	0.999669
rad23	7.19546e-05	0.999742	7.21545e-05	0.999741
rad13	5.62411e-05	0.999798	5.63974e-05	0.999798
rad25	5.45243e-05	0.999853	5.46758e-05	0.999853
rad36	5.00694e-05	0.999903	5.02086e-05	0.999903
rad24	3.29599e-05	0.999936	3.30515e-05	0.999936
rad18	1.86749e-05	0.999955	1.87268e-05	0.999955
PAH7+H	1.34302e-05	0.999968	1.34675e-05	0.999968
PhCCH+CH3	1.02213e-05	0.999978	1.02497e-05	0.999978
rad28	4.11187e-06	0.999982	4.12330e-06	0.999982
rad33	2.67333e-06	0.999985	2.68075e-06	0.999985
rad12	2.25676e-06	0.999987	2.26303e-06	0.999987
Ph+MeAc	1.98662e-06	0.999989	1.99215e-06	0.999989
rad19anti	1.19868e-06	0.999991	1.20201e-06	0.999991
PAH3+H	1.03306e-06	0.999992	1.03593e-06	0.999992
PAH9+H	1.01592e-06	0.999993	1.01875e-06	0.999993
rad15	9.10376e-07	0.999993	9.12903e-07	0.999993
rad30	7.06517e-07	0.999994	7.08481e-07	0.999994
rad38	6.82974e-07	0.999995	6.84872e-07	0.999995
rad70	6.36041e-07	0.999996	6.37808e-07	0.999996
rad3	4.36735e-07	0.999996	4.37949e-07	0.999996
rad39	4.35235e-07	0.999996	4.36445e-07	0.999996
rad4	3.69913e-07	0.999997	3.70942e-07	0.999997
rad19syn	3.43223e-07	0.999997	3.44177e-07	0.999997
rad50	3.07221e-07	0.999997	3.08074e-07	0.999997
rad8	2.73657e-07	0.999998	2.74418e-07	0.999998
rad46	2.64865e-07	0.999998	2.65601e-07	0.999998
PhcycC3H3_A+H	2.56448e-07	0.999998	2.57161e-07	0.999998
rad35	2.39514e-07	0.999998	2.40181e-07	0.999998
rad54	2.03258e-07	0.999999	2.03822e-07	0.999999
rad2	1.62678e-07	0.999999	1.63130e-07	0.999999
rad47	1.61446e-07	0.999999	1.61895e-07	0.999999

rad34	1.54351e-07	0.999999	1.54781e-07	0.999999
PhCCCH3+H	1.31196e-07	0.999999	1.31561e-07	0.999999
rad26	1.30079e-07	0.999999	1.30440e-07	0.999999
rad51	9.80405e-08	0.999999	9.83129e-08	0.999999
rad59	9.76012e-08	1.000000	9.78727e-08	1.000000
rad67	8.45677e-08	1.000000	8.48028e-08	1.000000
rad60syn	7.74496e-08	1.000000	7.76652e-08	1.000000
rad1	5.76902e-08	1.000000	5.78506e-08	1.000000
rad60anti	4.85242e-08	1.000000	4.86591e-08	1.000000
PAH1+H	3.76249e-08	1.000000	3.77294e-08	1.000000
rad10	2.94769e-08	1.000000	2.95588e-08	1.000000
PAH8+H	2.82688e-08	1.000000	2.83474e-08	1.000000
PAH10+CH3	2.81601e-08	1.000000	2.82384e-08	1.000000
rad52	2.71818e-08	1.000000	2.72574e-08	1.000000
rad55	1.60206e-08	1.000000	1.60650e-08	1.000000
rad37	1.16657e-08	1.000000	1.16981e-08	1.000000
rad58	1.12502e-08	1.000000	1.12814e-08	1.000000
rad68syn	1.00409e-08	1.000000	1.00687e-08	1.000000
rad68anti	6.54719e-09	1.000000	6.56539e-09	1.000000
rad56	6.46569e-09	1.000000	6.48366e-09	1.000000
rad53	5.60865e-09	1.000000	5.62424e-09	1.000000
rad31	3.53343e-09	1.000000	3.54325e-09	1.000000
rad40syn	3.49532e-09	1.000000	3.50504e-09	1.000000
rad14	2.70675e-09	1.000000	2.71427e-09	1.000000
rad40anti	2.02386e-09	1.000000	2.02949e-09	1.000000
rad71	1.95105e-09	1.000000	1.95648e-09	1.000000
rad62	1.94122e-09	1.000000	1.94661e-09	1.000000
rad65	1.66291e-09	1.000000	1.66753e-09	1.000000
rad73	1.50819e-09	1.000000	1.51238e-09	1.000000
rad64	7.18949e-10	1.000000	7.20948e-10	1.000000
rad5	2.76052e-10	1.000000	2.76819e-10	1.000000
rad42	1.88335e-10	1.000000	1.88859e-10	1.000000
rad43	1.21710e-10	1.000000	1.22049e-10	1.000000
rad27	1.18601e-10	1.000000	1.18930e-10	1.000000
rad61	6.21680e-11	1.000000	6.23409e-11	1.000000
rad72	5.91297e-11	1.000000	5.92941e-11	1.000000
rad41	1.13136e-11	1.000000	1.13451e-11	1.000000

100000000. Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.98668e-13 (1.00)	7.88904e-13 (1.00)
Formation of rad11	2.67704e-13 (0.335)	2.62992e-13 (0.333)
Formation of rad6	2.87049e-13 (0.359)	2.81997e-13 (0.357)
H-abstraction	2.43915e-13 (0.305)	2.43915e-13 (0.309)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.392353	0.392353	0.397208	0.397208
Benzene+2-propynyl	0.305402	0.697755	0.309181	0.706390
rad11	0.255779	0.953534	0.258945	0.965335
PhCH2CCH+H	0.0122711	0.965805	0.0124230	0.977758
Phenyl+Allene	0.0122244	0.978030	0.000000	0.977758
PhCHCCH2+H	0.00817070	0.986200	0.00827179	0.986030
C2H2+PhCH2	0.00446454	0.990665	0.00451979	0.990549
rad21	0.00338059	0.994046	0.00342243	0.993972
Indene+H	0.00131122	0.995357	0.00132745	0.995299
rad45	0.00119128	0.996548	0.00120603	0.996505
rad9	0.00105573	0.997604	0.00106880	0.997574
rad22	0.000605112	0.998209	0.000612601	0.998187
rad20	0.000510044	0.998719	0.000516356	0.998703
rad7	0.000332926	0.999052	0.000337046	0.999040
rad23	0.000185806	0.999238	0.000188105	0.999228
rad13	0.000177525	0.999415	0.000179722	0.999408
rad36	0.000127380	0.999543	0.000128956	0.999537
rad25	0.000122317	0.999665	0.000123831	0.999661
rad24	0.000100949	0.999766	0.000102198	0.999763
PAH7+H	6.64580e-05	0.999832	6.72805e-05	0.999830
PhCCH+CH3	4.97934e-05	0.999882	5.04097e-05	0.999881
rad18	2.28684e-05	0.999905	2.31514e-05	0.999904
rad28	1.69833e-05	0.999922	1.71934e-05	0.999921
rad33	1.36498e-05	0.999936	1.38188e-05	0.999935
rad12	1.05136e-05	0.999946	1.06437e-05	0.999945
Ph+MeAc	9.25559e-06	0.999955	9.37012e-06	0.999955
PAH3+H	4.44338e-06	0.999960	4.49837e-06	0.999959
rad70	4.26887e-06	0.999964	4.32171e-06	0.999964
PAH9+H	3.62879e-06	0.999968	3.67370e-06	0.999967
rad8	3.49006e-06	0.999971	3.53325e-06	0.999971
rad19anti	3.22419e-06	0.999974	3.26408e-06	0.999974

rad30	2.47308e-06	0.999977	2.50369e-06	0.999976
rad15	2.37471e-06	0.999979	2.40410e-06	0.999979
rad3	2.11284e-06	0.999981	2.13898e-06	0.999981
rad19syn	1.90545e-06	0.999983	1.92903e-06	0.999983
rad39	1.89380e-06	0.999985	1.91724e-06	0.999985
rad38	1.84769e-06	0.999987	1.87056e-06	0.999987
rad4	1.74622e-06	0.999989	1.76783e-06	0.999989
PhcycC3H3_A+H	1.43534e-06	0.999990	1.45310e-06	0.999990
rad34	1.12680e-06	0.999991	1.14074e-06	0.999991
rad54	1.03183e-06	0.999992	1.04459e-06	0.999992
rad35	8.73103e-07	0.999993	8.83909e-07	0.999993
rad50	8.52091e-07	0.999994	8.62639e-07	0.999994
rad46	7.29495e-07	0.999995	7.38520e-07	0.999995
rad2	6.77279e-07	0.999995	6.85661e-07	0.999995
PhCCCH3+H	5.02419e-07	0.999996	5.08637e-07	0.999996
rad47	4.31587e-07	0.999996	4.36929e-07	0.999996
rad26	4.14424e-07	0.999997	4.19553e-07	0.999997
rad59	4.09675e-07	0.999997	4.14745e-07	0.999997
rad60syn	3.05661e-07	0.999998	3.09444e-07	0.999997
PAH8+H	2.96878e-07	0.999998	3.00552e-07	0.999998
rad51	2.67353e-07	0.999998	2.70662e-07	0.999998
rad67	2.34794e-07	0.999998	2.37700e-07	0.999998
rad1	2.20896e-07	0.999999	2.23630e-07	0.999998
rad60anti	1.92789e-07	0.999999	1.95175e-07	0.999999
PAH1+H	1.86779e-07	0.999999	1.89090e-07	0.999999
PAH10+CH3	1.12971e-07	0.999999	1.14369e-07	0.999999
rad10	1.00691e-07	0.999999	1.01937e-07	0.999999
rad68syn	9.19710e-08	0.999999	9.31092e-08	0.999999
rad55	8.15826e-08	0.999999	8.25929e-08	0.999999
rad52	7.40157e-08	0.999999	7.49317e-08	0.999999
rad68anti	5.98100e-08	0.999999	6.05502e-08	0.999999
rad58	5.25833e-08	1.000000	5.32340e-08	0.999999
rad37	4.57555e-08	1.000000	4.63218e-08	0.999999
rad40syn	3.48220e-08	1.000000	3.52530e-08	0.999999
rad56	3.33174e-08	1.000000	3.37298e-08	1.000000
rad53	2.88132e-08	1.000000	2.91697e-08	1.000000
rad40anti	2.06062e-08	1.000000	2.08612e-08	1.000000
rad14	2.02219e-08	1.000000	2.04722e-08	1.000000
rad31	1.74454e-08	1.000000	1.76613e-08	1.000000
rad62	9.37978e-09	1.000000	9.49585e-09	1.000000
rad65	6.06047e-09	1.000000	6.13548e-09	1.000000
rad71	5.52792e-09	1.000000	5.59633e-09	1.000000
rad73	4.25526e-09	1.000000	4.30792e-09	1.000000
rad64	3.58351e-09	1.000000	3.62785e-09	1.000000
rad27	9.90552e-10	1.000000	1.00281e-09	1.000000
rad42	9.14390e-10	1.000000	9.25711e-10	1.000000
rad5	7.43706e-10	1.000000	7.52909e-10	1.000000
rad43	4.60220e-10	1.000000	4.65915e-10	1.000000
rad61	2.54881e-10	1.000000	2.58036e-10	1.000000
rad72	1.68784e-10	1.000000	1.70873e-10	1.000000
rad41	4.27313e-11	1.000000	4.32602e-11	1.000000

100000000. Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22919e-12 (1.00)	1.19882e-12 (1.00)
Formation of rad11	3.87976e-13 (0.316)	3.73705e-13 (0.312)
Formation of rad6	4.37724e-13 (0.356)	4.21623e-13 (0.352)
H-abstraction	4.03491e-13 (0.328)	4.03491e-13 (0.337)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.391330	0.391330	0.401245	0.401245
Benzene+2-propynyl	0.328257	0.719588	0.336574	0.737819
rad11	0.194539	0.914127	0.199468	0.937287
PhCH2CCH+H	0.0256048	0.939732	0.0262534	0.963540
Phenyl+Allene	0.0247095	0.964441	0.000000	0.963540
PhCHCCH2+H	0.0151284	0.979570	0.0155117	0.979052
C2H2+PhCH2	0.00609951	0.985669	0.00625405	0.985306
rad21	0.00510289	0.990772	0.00523218	0.990538
rad9	0.00189127	0.992663	0.00193919	0.992478
Indene+H	0.00180994	0.994473	0.00185580	0.994333
rad45	0.00153540	0.996009	0.00157430	0.995908
rad20	0.000794927	0.996804	0.000815065	0.996723
rad7	0.000743787	0.997547	0.000762628	0.997485
rad22	0.000578131	0.998126	0.000592778	0.998078
rad13	0.000558745	0.998684	0.000572901	0.998651
rad23	0.000225744	0.998910	0.000231463	0.998882
rad25	0.000203245	0.999113	0.000208394	0.999091

rad24	0.000160864	0.999274	0.000164940	0.999256
rad36	0.000159710	0.999434	0.000163755	0.999420
PhCCH+CH3	0.000158414	0.999592	0.000162428	0.999582
PAH7+H	0.000136623	0.999729	0.000140084	0.999722
rad33	5.51436e-05	0.999784	5.65407e-05	0.999779
rad28	4.03775e-05	0.999824	4.14005e-05	0.999820
Ph+MeAc	2.86782e-05	0.999853	2.94048e-05	0.999849
rad18	2.73966e-05	0.999881	2.80907e-05	0.999878
rad12	1.92898e-05	0.999900	1.97785e-05	0.999897
rad8	1.40771e-05	0.999914	1.44338e-05	0.999912
rad70	8.68342e-06	0.999923	8.90338e-06	0.999921
rad19syn	7.73169e-06	0.999930	7.92754e-06	0.999929
PAH3+H	7.01393e-06	0.999937	7.19161e-06	0.999936
rad3	6.20702e-06	0.999944	6.36428e-06	0.999942
PhcycC3H3_A+H	6.13264e-06	0.999950	6.28801e-06	0.999948
PAH9+H	5.64817e-06	0.999955	5.79127e-06	0.999954
rad39	5.52570e-06	0.999961	5.66570e-06	0.999960
rad4	5.06174e-06	0.999966	5.18998e-06	0.999965
rad19anti	4.82200e-06	0.999971	4.94416e-06	0.999970
rad15	3.80275e-06	0.999975	3.89909e-06	0.999974
rad30	3.60365e-06	0.999978	3.69495e-06	0.999978
rad54	3.23734e-06	0.999981	3.31936e-06	0.999981
rad38	2.48509e-06	0.999984	2.54805e-06	0.999983
rad34	2.36897e-06	0.999986	2.42900e-06	0.999986
rad2	1.82060e-06	0.999988	1.86673e-06	0.999988
rad35	1.35601e-06	0.999989	1.39036e-06	0.999989
PhCCCH3+H	1.30397e-06	0.999991	1.33701e-06	0.999990
rad50	1.15510e-06	0.999992	1.18437e-06	0.999992
rad46	9.85850e-07	0.999993	1.01082e-06	0.999993
rad26	7.36331e-07	0.999994	7.54986e-07	0.999993
PAH8+H	7.16535e-07	0.999994	7.34691e-07	0.999994
rad59	6.40461e-07	0.999995	6.56688e-07	0.999995
PAH1+H	6.34755e-07	0.999996	6.50836e-07	0.999995
rad47	5.55782e-07	0.999996	5.69863e-07	0.999996
rad1	5.44341e-07	0.999997	5.58132e-07	0.999997
rad60syn	4.66659e-07	0.999997	4.78482e-07	0.999997
rad51	3.60019e-07	0.999998	3.69140e-07	0.999997
rad67	3.58474e-07	0.999998	3.67556e-07	0.999998
rad60anti	2.95095e-07	0.999998	3.02571e-07	0.999998
rad55	2.57507e-07	0.999998	2.64030e-07	0.999998
PAH10+CH3	2.40805e-07	0.999999	2.46906e-07	0.999999
rad10	2.26135e-07	0.999999	2.31864e-07	0.999999
rad68syn	2.10776e-07	0.999999	2.16116e-07	0.999999
rad68anti	1.36931e-07	0.999999	1.40400e-07	0.999999
rad14	1.24750e-07	0.999999	1.27911e-07	0.999999
rad56	1.08436e-07	0.999999	1.11184e-07	0.999999
rad52	9.96060e-08	1.000000	1.02130e-07	1.000000
rad37	9.58725e-08	1.000000	9.83012e-08	1.000000
rad53	9.29134e-08	1.000000	9.52673e-08	1.000000
rad58	8.57325e-08	1.000000	8.79046e-08	1.000000
rad40syn	8.23812e-08	1.000000	8.44681e-08	1.000000
rad31	5.26744e-08	1.000000	5.40089e-08	1.000000
rad40anti	4.91548e-08	1.000000	5.04002e-08	1.000000
rad62	2.74383e-08	1.000000	2.81335e-08	1.000000
rad64	1.23417e-08	1.000000	1.26544e-08	1.000000
rad65	9.68881e-09	1.000000	9.93428e-09	1.000000
rad71	7.63086e-09	1.000000	7.82418e-09	1.000000
rad27	6.06860e-09	1.000000	6.22235e-09	1.000000
rad73	5.85807e-09	1.000000	6.00649e-09	1.000000
rad42	2.68148e-09	1.000000	2.74942e-09	1.000000
rad5	1.15988e-09	1.000000	1.18926e-09	1.000000
rad43	1.05874e-09	1.000000	1.08557e-09	1.000000
rad61	5.52301e-10	1.000000	5.66294e-10	1.000000
rad72	2.34104e-10	1.000000	2.40036e-10	1.000000
rad41	9.77507e-11	1.000000	1.00227e-10	1.000000

100000000. Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.74022e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	5.10257e-13 (0.293)
Formation of rad6	6.34764e-13 (0.352)	6.01150e-13 (0.345)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.361)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.375658	0.375658	0.389073	0.389073
Benzene+2-propynyl	0.348883	0.724541	0.361342	0.750416
rad11	0.163307	0.887848	0.169139	0.919555

Phenyl+Allene	0.0344806	0.922328	0.00000	0.919555
PhCH2CCH+H	0.0339218	0.956250	0.0351332	0.954688
PhCHCCH2+H	0.0187978	0.975048	0.0194692	0.974157
C2H2+PhCH2	0.00617867	0.981227	0.00639935	0.980556
rad21	0.00603196	0.987259	0.00624738	0.986804
rad9	0.00229136	0.989550	0.00237319	0.989177
rad7	0.00189295	0.991443	0.00196055	0.991137
Indene+H	0.00181398	0.993257	0.00187876	0.993016
rad13	0.00179102	0.995048	0.00185498	0.994871
rad45	0.00148033	0.996528	0.00153319	0.996404
rad20	0.000991195	0.997519	0.00102659	0.997431
rad22	0.000451908	0.997971	0.000468047	0.997899
PhCCH+CH3	0.000409659	0.998381	0.000424289	0.998323
rad25	0.000313446	0.998694	0.000324641	0.998648
PAH7+H	0.000205314	0.998900	0.000212646	0.998861
rad23	0.000202732	0.999102	0.000209973	0.999071
rad33	0.000178701	0.999281	0.000185082	0.999256
rad24	0.000170354	0.999452	0.000176438	0.999432
rad36	0.000152123	0.999604	0.000157556	0.999590
rad28	8.23963e-05	0.999686	8.53387e-05	0.999675
Ph+MeAc	7.34864e-05	0.999760	7.61101e-05	0.999751
rad18	3.67811e-05	0.999796	3.80946e-05	0.999789
rad8	2.37032e-05	0.999820	2.45497e-05	0.999814
rad12	2.36324e-05	0.999844	2.44763e-05	0.999838
rad19syn	2.22828e-05	0.999866	2.30785e-05	0.999861
PhcycC3H3_A+H	1.81323e-05	0.999884	1.87799e-05	0.999880
rad3	1.49250e-05	0.999899	1.54579e-05	0.999896
rad39	1.37638e-05	0.999913	1.42554e-05	0.999910
rad4	1.21312e-05	0.999925	1.25644e-05	0.999922
rad70	9.51132e-06	0.999934	9.85098e-06	0.999932
rad54	8.28989e-06	0.999943	8.58599e-06	0.999941
PAH3+H	7.40405e-06	0.999950	7.66843e-06	0.999949
PAH9+H	6.42351e-06	0.999957	6.65290e-06	0.999955
rad15	6.40270e-06	0.999963	6.63137e-06	0.999962
rad19anti	5.59096e-06	0.999969	5.79063e-06	0.999968
rad2	4.14386e-06	0.999973	4.29184e-06	0.999972
rad30	3.64716e-06	0.999976	3.77740e-06	0.999976
PhCCCH3+H	2.98837e-06	0.999979	3.09509e-06	0.999979
rad34	2.62246e-06	0.999982	2.71612e-06	0.999981
rad38	2.54578e-06	0.999984	2.63669e-06	0.999984
PAH1+H	1.73267e-06	0.999986	1.79455e-06	0.999986
rad35	1.49987e-06	0.999988	1.55344e-06	0.999987
rad26	1.21679e-06	0.999989	1.26024e-06	0.999989
rad50	1.17831e-06	0.999990	1.22039e-06	0.999990
rad1	1.17654e-06	0.999991	1.21856e-06	0.999991
rad46	1.00427e-06	0.999992	1.04013e-06	0.999992
PAH8+H	8.32381e-07	0.999993	8.62111e-07	0.999993
rad59	6.72617e-07	0.999994	6.96635e-07	0.999994
rad55	6.61717e-07	0.999994	6.85350e-07	0.999994
rad10	5.89372e-07	0.999995	6.10419e-07	0.999995
rad14	5.77804e-07	0.999996	5.98438e-07	0.999996
rad47	5.37445e-07	0.999996	5.56638e-07	0.999996
rad60syn	4.84018e-07	0.999997	5.01304e-07	0.999997
PAH10+CH3	4.74963e-07	0.999997	4.91925e-07	0.999997
rad67	4.07207e-07	0.999998	4.21749e-07	0.999998
rad51	3.66733e-07	0.999998	3.79829e-07	0.999998
rad60anti	3.06487e-07	0.999998	3.17432e-07	0.999998
rad56	2.83966e-07	0.999998	2.94107e-07	0.999999
rad53	2.41895e-07	0.999999	2.50533e-07	0.999999
rad68syn	2.40221e-07	0.999999	2.48799e-07	0.999999
rad37	1.85653e-07	0.999999	1.92283e-07	0.999999
rad68anti	1.56004e-07	0.999999	1.61575e-07	0.999999
rad31	1.27686e-07	0.999999	1.32246e-07	1.000000
rad52	1.01434e-07	1.000000	1.05056e-07	1.000000
rad40syn	9.49869e-08	1.000000	9.83795e-08	1.000000
rad58	9.20686e-08	1.000000	9.53561e-08	1.000000
rad62	5.85814e-08	1.000000	6.06734e-08	1.000000
rad40anti	5.68551e-08	1.000000	5.88856e-08	1.000000
rad64	3.40860e-08	1.000000	3.53033e-08	1.000000
rad27	2.47135e-08	1.000000	2.55961e-08	1.000000
rad65	1.13324e-08	1.000000	1.17371e-08	1.000000
rad71	7.91023e-09	1.000000	8.19270e-09	1.000000
rad73	6.05990e-09	1.000000	6.27631e-09	1.000000
rad42	5.72458e-09	1.000000	5.92901e-09	1.000000
rad43	2.03055e-09	1.000000	2.10307e-09	1.000000
rad5	1.71729e-09	1.000000	1.77862e-09	1.000000
rad61	1.10771e-09	1.000000	1.14727e-09	1.000000
rad72	2.43548e-10	1.000000	2.52246e-10	1.000000
rad41	1.87145e-10	1.000000	1.93828e-10	1.000000

100000000. Pa, 1300.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.54148e-12	(1.00)	2.42841e-12	(1.00)
Formation of rad11	7.22991e-13	(0.284)	6.72130e-13	(0.277)
Formation of rad6	8.84215e-13	(0.348)	8.22012e-13	(0.338)
H-abstraction	9.34273e-13	(0.368)	9.34273e-13	(0.385)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.367610	0.367610	0.384726	0.384726
rad6	0.343477	0.711087	0.359469	0.744194
rad11	0.157633	0.868720	0.164973	0.909167
Phenyl+Allene	0.0444879	0.913208	0.000000	0.909167
PhCH2CCH+H	0.0351981	0.948406	0.0368369	0.946004
PhCHCCH2+H	0.0190051	0.967411	0.0198899	0.965894
rad21	0.00604458	0.973456	0.00632601	0.972220
rad7	0.00579632	0.979252	0.00606619	0.978286
C2H2+PhCH2	0.00566415	0.984916	0.00592787	0.984214
rad13	0.00506480	0.989981	0.00530061	0.989515
rad9	0.00228841	0.992270	0.00239496	0.991909
Indene+H	0.00164982	0.993919	0.00172664	0.993636
rad45	0.00133011	0.995250	0.00139204	0.995028
rad20	0.00102724	0.996277	0.00107506	0.996103
PhCCH+CH3	0.000993750	0.997271	0.00104002	0.997143
rad33	0.000471562	0.997742	0.000493518	0.997637
rad25	0.000384378	0.998126	0.000402274	0.998039
PAH7+H	0.000343623	0.998470	0.000359622	0.998399
rad22	0.000342402	0.998813	0.000358344	0.998757
Ph+MeAc	0.000179181	0.998992	0.000187524	0.998945
rad23	0.000165617	0.999157	0.000173328	0.999118
rad28	0.000155238	0.999313	0.000162466	0.999280
rad24	0.000155207	0.999468	0.000162434	0.999443
rad36	0.000135961	0.999604	0.000142291	0.999585
rad18	5.31468e-05	0.999657	5.56212e-05	0.999641
rad19syn	4.89708e-05	0.999706	5.12508e-05	0.999692
PhcycC3H3_A+H	4.03712e-05	0.999746	4.22509e-05	0.999734
rad39	3.31283e-05	0.999779	3.46707e-05	0.999769
rad3	3.30445e-05	0.999812	3.45830e-05	0.999803
rad8	2.72506e-05	0.999840	2.85194e-05	0.999832
rad4	2.69716e-05	0.999867	2.82274e-05	0.999860
rad12	2.37668e-05	0.999890	2.48733e-05	0.999885
rad54	2.08883e-05	0.999911	2.18609e-05	0.999907
rad15	1.22899e-05	0.999924	1.28621e-05	0.999920
rad2	9.03951e-06	0.999933	9.46040e-06	0.999929
rad70	8.48003e-06	0.999941	8.87484e-06	0.999938
PhCCCH3+H	6.72724e-06	0.999948	7.04046e-06	0.999945
PAH9+H	6.71352e-06	0.999955	7.02613e-06	0.999952
PAH3+H	6.44532e-06	0.999961	6.74544e-06	0.999959
rad19anti	5.65250e-06	0.999967	5.91568e-06	0.999965
PAH1+H	4.47336e-06	0.999971	4.68164e-06	0.999970
rad30	3.11303e-06	0.999974	3.25797e-06	0.999973
rad1	2.49991e-06	0.999977	2.61631e-06	0.999975
rad38	2.46432e-06	0.999979	2.57906e-06	0.999978
rad34	2.35146e-06	0.999982	2.46094e-06	0.999980
rad26	2.31917e-06	0.999984	2.42715e-06	0.999983
rad14	1.91537e-06	0.999986	2.00455e-06	0.999985
rad10	1.75455e-06	0.999987	1.83624e-06	0.999987
rad55	1.67525e-06	0.999989	1.75325e-06	0.999988
rad35	1.46388e-06	0.999991	1.53204e-06	0.999990
rad50	1.11945e-06	0.999992	1.17157e-06	0.999991
PAH10+CH3	1.00307e-06	0.999993	1.04977e-06	0.999992
rad46	9.53505e-07	0.999994	9.97901e-07	0.999993
PAH8+H	7.67684e-07	0.999994	8.03425e-07	0.999994
rad56	7.35514e-07	0.999995	7.69758e-07	0.999995
rad53	6.22388e-07	0.999996	6.51366e-07	0.999995
rad59	5.84006e-07	0.999996	6.11196e-07	0.999996
rad47	4.84925e-07	0.999997	5.07503e-07	0.999997
rad60syn	4.17756e-07	0.999997	4.37207e-07	0.999997
rad37	3.84056e-07	0.999998	4.01937e-07	0.999997
rad67	3.77507e-07	0.999998	3.95083e-07	0.999998
rad51	3.48731e-07	0.999998	3.64968e-07	0.999998
rad31	2.87495e-07	0.999999	3.00881e-07	0.999998
rad60anti	2.64698e-07	0.999999	2.77022e-07	0.999999
rad68syn	2.18976e-07	0.999999	2.29172e-07	0.999999
rad68anti	1.42178e-07	0.999999	1.48797e-07	0.999999
rad62	1.18432e-07	0.999999	1.23946e-07	0.999999
rad52	9.64401e-08	1.000000	1.00930e-07	0.999999
rad64	8.89311e-08	1.000000	9.30713e-08	0.999999

rad40syn	8.72135e-08	1.000000	9.12741e-08	1.000000
rad58	8.08612e-08	1.000000	8.46261e-08	1.000000
rad27	7.33098e-08	1.000000	7.67229e-08	1.000000
rad40anti	5.23108e-08	1.000000	5.47463e-08	1.000000
rad65	1.21666e-08	1.000000	1.27330e-08	1.000000
rad42	1.16246e-08	1.000000	1.21658e-08	1.000000
rad71	7.62517e-09	1.000000	7.98023e-09	1.000000
rad73	5.83117e-09	1.000000	6.10267e-09	1.000000
rad43	4.03295e-09	1.000000	4.22073e-09	1.000000
rad5	3.19698e-09	1.000000	3.34583e-09	1.000000
rad61	2.37999e-09	1.000000	2.49080e-09	1.000000
rad41	3.73476e-10	1.000000	3.90865e-10	1.000000
rad72	2.35489e-10	1.000000	2.46452e-10	1.000000

100000000. Pa, 1400.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.47024e-12	(1.00)	3.28710e-12	(1.00)
Formation of rad11	9.43269e-13	(0.272)	8.62364e-13	(0.262)
Formation of rad6	1.19194e-12	(0.343)	1.08970e-12	(0.332)
H-abstraction	1.33503e-12	(0.385)	1.33503e-12	(0.406)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.384709	0.384709	0.406143	0.406143
rad6	0.305448	0.690157	0.322466	0.728609
rad11	0.165928	0.856085	0.175172	0.903782
Phenyl+Allene	0.0527745	0.908860	0.000000	0.903782
PhCH2CCH+H	0.0319074	0.940767	0.0336851	0.937467
PhCHCCH2+H	0.0170610	0.957828	0.0180116	0.955478
rad7	0.0126896	0.970518	0.0133966	0.968875
rad13	0.00876162	0.979279	0.00924980	0.978125
rad21	0.00538721	0.984667	0.00568736	0.983812
C2H2+PhCH2	0.00490769	0.989574	0.00518112	0.988993
rad9	0.00203976	0.991614	0.00215341	0.991147
PhCCH+CH3	0.00159902	0.993213	0.00168811	0.992835
Indene+H	0.00139414	0.994607	0.00147181	0.994306
rad45	0.00114608	0.995753	0.00120993	0.995516
rad20	0.000930203	0.996684	0.000982032	0.996498
rad33	0.000763705	0.997447	0.000806256	0.997305
PAH7+H	0.000482580	0.997930	0.000509466	0.997814
rad25	0.000379053	0.998309	0.000400172	0.998214
Ph+MeAc	0.000291037	0.998600	0.000307252	0.998522
rad22	0.000290314	0.998890	0.000306489	0.998828
rad28	0.000218539	0.999109	0.000230715	0.999059
rad23	0.000132380	0.999241	0.000139756	0.999198
rad24	0.000131280	0.999372	0.000138594	0.999337
rad36	0.000116843	0.999489	0.000123352	0.999460
rad18	6.81779e-05	0.999557	7.19767e-05	0.999532
rad19syn	5.91101e-05	0.999617	6.24037e-05	0.999595
rad39	5.21895e-05	0.999669	5.50973e-05	0.999650
PhcycC3H3_A+H	4.90784e-05	0.999718	5.18129e-05	0.999702
rad3	4.85027e-05	0.999766	5.12050e-05	0.999753
rad4	3.97570e-05	0.999806	4.19720e-05	0.999795
rad54	3.50276e-05	0.999841	3.69791e-05	0.999832
rad8	2.59226e-05	0.999867	2.73668e-05	0.999859
rad12	2.12862e-05	0.999888	2.24721e-05	0.999882
rad15	2.10817e-05	0.999909	2.22562e-05	0.999904
rad2	1.34649e-05	0.999923	1.42151e-05	0.999918
PhCCCH3+H	1.04826e-05	0.999933	1.10666e-05	0.999929
PAH1+H	7.40995e-06	0.999941	7.82282e-06	0.999937
rad70	7.17669e-06	0.999948	7.57655e-06	0.999945
PAH9+H	6.45053e-06	0.999954	6.80994e-06	0.999951
rad19anti	5.21294e-06	0.999960	5.50337e-06	0.999957
PAH3+H	5.01238e-06	0.999965	5.29164e-06	0.999962
rad26	3.85256e-06	0.999968	4.06720e-06	0.999966
rad1	3.68319e-06	0.999972	3.88840e-06	0.999970
rad14	3.51289e-06	0.999976	3.70861e-06	0.999974
rad10	3.20327e-06	0.999979	3.38174e-06	0.999977
rad55	2.82144e-06	0.999982	2.97864e-06	0.999980
rad30	2.39152e-06	0.999984	2.52477e-06	0.999983
rad38	2.27986e-06	0.999986	2.40688e-06	0.999985
rad34	1.99907e-06	0.999988	2.11046e-06	0.999987
PAH10+CH3	1.38463e-06	0.999990	1.46177e-06	0.999989
rad35	1.30493e-06	0.999991	1.37764e-06	0.999990
rad56	1.26511e-06	0.999992	1.33560e-06	0.999992
rad53	1.06399e-06	0.999993	1.12327e-06	0.999993
rad50	1.01690e-06	0.999994	1.07356e-06	0.999994
rad46	8.65887e-07	0.999995	9.14130e-07	0.999995

PAH8+H	6.67019e-07	0.999996	7.04184e-07	0.999995
rad37	5.22549e-07	0.999996	5.51662e-07	0.999996
rad59	4.53344e-07	0.999997	4.78602e-07	0.999996
rad31	4.30549e-07	0.999997	4.54536e-07	0.999997
rad47	4.19529e-07	0.999998	4.42903e-07	0.999997
rad60syn	3.23029e-07	0.999998	3.41027e-07	0.999998
rad51	3.17297e-07	0.999998	3.34975e-07	0.999998
rad67	2.97729e-07	0.999999	3.14318e-07	0.999998
rad60anti	2.04759e-07	0.999999	2.16168e-07	0.999998
rad68syn	1.88561e-07	0.999999	1.99067e-07	0.999999
rad62	1.72397e-07	0.999999	1.82001e-07	0.999999
rad64	1.48432e-07	0.999999	1.56702e-07	0.999999
rad27	1.27378e-07	1.000000	1.34474e-07	0.999999
rad68anti	1.22410e-07	1.000000	1.29230e-07	0.999999
rad52	8.77393e-08	1.000000	9.26280e-08	0.999999
rad40syn	7.55276e-08	1.000000	7.97354e-08	0.999999
rad58	6.32907e-08	1.000000	6.68172e-08	1.000000
rad40anti	4.53785e-08	1.000000	4.79067e-08	1.000000
rad42	1.70495e-08	1.000000	1.79994e-08	1.000000
rad65	1.19797e-08	1.000000	1.26471e-08	1.000000
rad71	7.01906e-09	1.000000	7.41009e-09	1.000000
rad5	6.49329e-09	1.000000	6.85507e-09	1.000000
rad43	5.91869e-09	1.000000	6.24844e-09	1.000000
rad73	5.35899e-09	1.000000	5.65757e-09	1.000000
rad61	3.32367e-09	1.000000	3.50885e-09	1.000000
rad41	5.51746e-10	1.000000	5.82487e-10	1.000000
rad72	2.17363e-10	1.000000	2.29473e-10	1.000000

100000000. Pa, 1500.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	4.61271e-12	(1.00)	4.37799e-12	(1.00)
Formation of rad11	1.20217e-12	(0.261)	1.10015e-12	(0.251)
Formation of rad6	1.56360e-12	(0.339)	1.43090e-12	(0.327)
H-abstraction	1.84694e-12	(0.400)	1.84694e-12	(0.422)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.400402	0.400402	0.421869	0.421869
rad6	0.292346	0.692749	0.308020	0.729889
rad11	0.170262	0.863011	0.179390	0.909279
Phenyl+Allene	0.0508856	0.913896	0.000000	0.909279
PhCH2CCH+H	0.0280932	0.941989	0.0295994	0.938879
rad7	0.0155233	0.957513	0.0163555	0.955234
PhCHCCH2+H	0.0149473	0.972460	0.0157486	0.970983
rad13	0.00910273	0.981563	0.00959078	0.980573
rad21	0.00463312	0.986196	0.00488152	0.985455
C2H2+PhCH2	0.00426632	0.990462	0.00449505	0.989950
rad9	0.00177815	0.992240	0.00187348	0.991824
PhCCH+CH3	0.00161828	0.993858	0.00170504	0.993529
Indene+H	0.00113666	0.994995	0.00119760	0.994726
rad45	0.000980120	0.995975	0.00103267	0.995759
rad20	0.000807796	0.996783	0.000851101	0.996610
rad33	0.000758905	0.997542	0.000799589	0.997410
PAH7+H	0.000452335	0.997994	0.000476587	0.997886
rad25	0.000343101	0.998337	0.000361496	0.998248
rad22	0.000308554	0.998646	0.000325097	0.998573
Ph+MeAc	0.000296261	0.998942	0.000312145	0.998885
rad28	0.000249818	0.999192	0.000263212	0.999148
rad23	0.000121365	0.999313	0.000127872	0.999276
rad24	0.000109865	0.999423	0.000115756	0.999392
rad36	9.97431e-05	0.999523	0.000105091	0.999497
rad18	7.31419e-05	0.999596	7.70631e-05	0.999574
rad39	4.82207e-05	0.999644	5.08059e-05	0.999625
rad3	4.56468e-05	0.999690	4.80941e-05	0.999673
rad19syn	4.46114e-05	0.999735	4.70032e-05	0.999720
rad4	3.74864e-05	0.999772	3.94962e-05	0.999759
PhcycC3H3_A+H	3.72623e-05	0.999809	3.92600e-05	0.999799
rad54	3.63823e-05	0.999846	3.83329e-05	0.999837
rad15	2.84598e-05	0.999874	2.99857e-05	0.999867
rad8	2.31136e-05	0.999897	2.43528e-05	0.999891
rad12	1.86107e-05	0.999916	1.96085e-05	0.999911
rad2	1.29206e-05	0.999929	1.36133e-05	0.999924
PhCCCH3+H	1.05476e-05	0.999939	1.11131e-05	0.999936
PAH1+H	7.01775e-06	0.999946	7.39400e-06	0.999943
rad70	6.18419e-06	0.999953	6.51576e-06	0.999949
PAH9+H	5.55513e-06	0.999958	5.85294e-06	0.999955
rad19anti	4.73872e-06	0.999963	4.99278e-06	0.999960
rad26	4.55672e-06	0.999967	4.80103e-06	0.999965

PAH3+H	3.95298e-06	0.999971	4.16491e-06	0.999969
rad14	3.70472e-06	0.999975	3.90334e-06	0.999973
rad1	3.51991e-06	0.999979	3.70863e-06	0.999977
rad10	3.08378e-06	0.999982	3.24912e-06	0.999980
rad55	2.93755e-06	0.999985	3.09504e-06	0.999983
rad38	2.02777e-06	0.999987	2.13649e-06	0.999985
rad30	1.86183e-06	0.999988	1.96166e-06	0.999987
rad34	1.72799e-06	0.999990	1.82064e-06	0.999989
rad56	1.33261e-06	0.999992	1.40405e-06	0.999991
rad53	1.11694e-06	0.999993	1.17683e-06	0.999992
rad35	1.08847e-06	0.999994	1.14682e-06	0.999993
PAH10+CH3	9.77920e-07	0.999995	1.03035e-06	0.999994
rad50	9.13721e-07	0.999996	9.62709e-07	0.999995
rad46	7.77906e-07	0.999996	8.19616e-07	0.999996
PAH8+H	5.85066e-07	0.999997	6.16432e-07	0.999996
rad31	4.09997e-07	0.999997	4.31979e-07	0.999997
rad37	3.66870e-07	0.999998	3.86540e-07	0.999997
rad47	3.59994e-07	0.999998	3.79294e-07	0.999997
rad59	3.56876e-07	0.999999	3.76009e-07	0.999998
rad51	2.85424e-07	0.999999	3.00727e-07	0.999998
rad60syn	2.53268e-07	0.999999	2.66847e-07	0.999998
rad67	2.28146e-07	0.999999	2.40378e-07	0.999999
rad62	1.66481e-07	0.999999	1.75407e-07	0.999999
rad68syn	1.64416e-07	1.000000	1.73231e-07	0.999999
rad60anti	1.60608e-07	1.000000	1.69219e-07	0.999999
rad64	1.41088e-07	1.000000	1.48653e-07	0.999999
rad27	1.31557e-07	1.000000	1.38610e-07	0.999999
rad68anti	1.06724e-07	1.000000	1.12445e-07	1.000000
rad52	7.89220e-08	1.000000	8.31531e-08	1.000000
rad40syn	6.60973e-08	1.000000	6.96410e-08	1.000000
rad58	5.02305e-08	1.000000	5.29235e-08	1.000000
rad40anti	3.97537e-08	1.000000	4.18850e-08	1.000000
rad42	1.65621e-08	1.000000	1.74501e-08	1.000000
rad5	1.27650e-08	1.000000	1.34493e-08	1.000000
rad65	1.04979e-08	1.000000	1.10608e-08	1.000000
rad71	6.38284e-09	1.000000	6.72505e-09	1.000000
rad43	5.77997e-09	1.000000	6.08985e-09	1.000000
rad73	4.86597e-09	1.000000	5.12685e-09	1.000000
rad61	2.36006e-09	1.000000	2.48659e-09	1.000000
rad41	5.41331e-10	1.000000	5.70354e-10	1.000000
rad72	1.98162e-10	1.000000	2.08786e-10	1.000000

100000000. Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.68217e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.22433e-12 (0.183)
Formation of rad6	2.80256e-12 (0.325)	1.68186e-12 (0.252)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.565)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.565082	0.565082
Phenyl+Allene	0.224689	0.662804	0.000000	0.565082
rad6	0.137202	0.800005	0.176964	0.742046
PhCH2CCH+H	0.0985154	0.898521	0.127066	0.869112
PhCHCCH2+H	0.0426268	0.941148	0.0549801	0.924092
rad11	0.0174544	0.958602	0.0225128	0.946605
C2H2+PhCH2	0.0153080	0.973910	0.0197443	0.966349
PhCCH+CH3	0.00603633	0.979946	0.00778568	0.974135
PhcycC3H3_A+H	0.00499970	0.984946	0.00644865	0.980583
PAH7+H	0.00276693	0.987713	0.00356880	0.984152
rad19syn	0.00210351	0.989816	0.00271312	0.986865
rad7	0.00205300	0.991869	0.00264797	0.989513
Ph+MeAc	0.00202107	0.993890	0.00260679	0.992120
Indene+H	0.00139069	0.995281	0.00179372	0.993914
rad54	0.000680876	0.995962	0.000878194	0.994792
rad13	0.000642482	0.996605	0.000828679	0.995621
PAH1+H	0.000331036	0.996936	0.000426973	0.996048
rad39	0.000297926	0.997233	0.000384267	0.996432
rad21	0.000216352	0.997450	0.000279052	0.996711
rad56	0.000177838	0.997628	0.000229376	0.996940
PAH8+H	0.000159857	0.997788	0.000206184	0.997147
rad9	0.000146998	0.997935	0.000189599	0.997336
rad50	0.000145633	0.998080	0.000187838	0.997524
rad19anti	0.000132749	0.998213	0.000171220	0.997695
PAH3+H	0.000128872	0.998342	0.000166220	0.997862
rad51	0.000117522	0.998459	0.000151580	0.998013
PAH9+H	0.000103065	0.998562	0.000132934	0.998146

rad70	0.000102352	0.998665	0.000132014	0.998278
rad53	0.000100495	0.998765	0.000129619	0.998408
PhCCCH3+H	8.61140e-05	0.998851	0.000111070	0.998519
rad71	8.55909e-05	0.998937	0.000110396	0.998629
rad55	8.19341e-05	0.999019	0.000105679	0.998735
rad38	7.48757e-05	0.999094	9.65752e-05	0.998831
rad33	6.48191e-05	0.999159	8.36038e-05	0.998915
rad28	6.25817e-05	0.999221	8.07181e-05	0.998996
rad45	6.04662e-05	0.999282	7.79899e-05	0.999074
rad67	5.71123e-05	0.999339	7.36642e-05	0.999147
PAH10+CH3	5.70887e-05	0.999396	7.36333e-05	0.999221
rad20	5.51371e-05	0.999451	7.11160e-05	0.999292
rad47	5.42123e-05	0.999505	6.99234e-05	0.999362
rad22	4.89252e-05	0.999554	6.31039e-05	0.999425
rad34	4.63691e-05	0.999600	5.98073e-05	0.999485
rad35	3.93945e-05	0.999640	5.08114e-05	0.999536
rad62	3.77263e-05	0.999678	4.86594e-05	0.999584
rad46	3.76148e-05	0.999715	4.85159e-05	0.999633
rad73	2.76898e-05	0.999743	3.57144e-05	0.999669
rad25	2.47826e-05	0.999768	3.19648e-05	0.999701
rad8	2.19102e-05	0.999790	2.82599e-05	0.999729
rad52	1.91070e-05	0.999809	2.46443e-05	0.999753
rad68syn	1.63455e-05	0.999825	2.10825e-05	0.999775
rad23	1.61811e-05	0.999841	2.08705e-05	0.999795
rad72	1.59579e-05	0.999857	2.05826e-05	0.999816
rad12	1.20251e-05	0.999869	1.55101e-05	0.999832
rad40syn	1.13995e-05	0.999881	1.47031e-05	0.999846
rad36	1.10090e-05	0.999892	1.41995e-05	0.999860
rad30	1.06528e-05	0.999902	1.37400e-05	0.999874
rad15	1.04757e-05	0.999913	1.35117e-05	0.999888
rad68anti	1.03879e-05	0.999923	1.33983e-05	0.999901
rad24	9.57739e-06	0.999933	1.23530e-05	0.999913
rad42	9.52508e-06	0.999942	1.22855e-05	0.999926
rad40anti	8.89167e-06	0.999951	1.14685e-05	0.999937
rad59	8.43654e-06	0.999960	1.08815e-05	0.999948
rad64	7.83892e-06	0.999967	1.01107e-05	0.999958
rad18	4.46736e-06	0.999972	5.76205e-06	0.999964
rad37	4.35121e-06	0.999976	5.61222e-06	0.999970
rad58	3.72103e-06	0.999980	4.79940e-06	0.999974
rad60syn	3.52042e-06	0.999983	4.54067e-06	0.999979
rad14	3.26265e-06	0.999987	4.20819e-06	0.999983
rad60anti	2.66298e-06	0.999989	3.43473e-06	0.999987
rad65	2.38577e-06	0.999992	3.07718e-06	0.999990
rad26	1.84791e-06	0.999994	2.38344e-06	0.999992
rad3	1.56686e-06	0.999995	2.02095e-06	0.999994
rad10	1.27572e-06	0.999996	1.64543e-06	0.999996
rad4	1.01428e-06	0.999997	1.30823e-06	0.999997
rad43	8.00069e-07	0.999998	1.03193e-06	0.999998
rad61	6.12225e-07	0.999999	7.89649e-07	0.999999
rad2	4.80838e-07	0.999999	6.20188e-07	0.999999
rad41	2.27917e-07	1.000000	2.93969e-07	1.000000
rad1	1.05523e-07	1.000000	1.36104e-07	1.000000
rad27	8.53094e-08	1.000000	1.10032e-07	1.000000
rad5	4.66760e-08	1.000000	6.02030e-08	1.000000

100000000. Pa, 2000.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.44111e-11	(1.00)	1.04420e-11	(1.00)
Formation of rad11	3.16882e-12	(0.220)	1.53582e-12	(0.147)
Formation of rad6	4.53302e-12	(0.315)	2.19700e-12	(0.210)
H-abstraction	6.70922e-12	(0.466)	6.70922e-12	(0.643)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.642520	0.642520
Phenyl+Allene	0.275415	0.740975	0.000000	0.642520
PhCH2CCH+H	0.0928675	0.833843	0.128166	0.770686
rad6	0.0709319	0.904775	0.0978931	0.868579
PhCHCCH2+H	0.0403906	0.945165	0.0557430	0.924322
C2H2+PhCH2	0.0145768	0.959742	0.0201175	0.944440
rad11	0.0124616	0.972204	0.0171982	0.961638
PhCCH+CH3	0.00682415	0.979028	0.00941807	0.971056
PhcycC3H3_A+H	0.00560018	0.984628	0.00772879	0.978785
PAH7+H	0.00287195	0.987500	0.00396356	0.982748
Ph+MeAc	0.00260905	0.990109	0.00360075	0.986349
rad19syn	0.00227825	0.992387	0.00314422	0.989493
rad7	0.00157954	0.993967	0.00217992	0.991673
Indene+H	0.00132249	0.995289	0.00182517	0.993498

rad54	0.000794824	0.996084	0.00109694	0.994595
PAH1+H	0.000432579	0.996517	0.000597003	0.995192
rad13	0.000426288	0.996943	0.000588319	0.995781
rad39	0.000286398	0.997229	0.000395259	0.996176
rad56	0.000233853	0.997463	0.000322741	0.996499
rad21	0.000196359	0.997659	0.000270995	0.996770
PAH8+H	0.000162788	0.997822	0.000224664	0.996994
rad50	0.000139609	0.997962	0.000192674	0.997187
rad53	0.000128978	0.998091	0.000178003	0.997365
rad9	0.000127940	0.998219	0.000176569	0.997542
PAH3+H	0.000127874	0.998347	0.000176479	0.997718
rad19anti	0.000125996	0.998473	0.000173888	0.997892
rad51	0.000112713	0.998585	0.000155555	0.998047
PAH9+H	0.000103892	0.998689	0.000143382	0.998191
rad70	9.99846e-05	0.998789	0.000137989	0.998329
rad55	9.76796e-05	0.998887	0.000134808	0.998464
PhCCCH3+H	8.47349e-05	0.998972	0.000116942	0.998581
rad71	8.29076e-05	0.999055	0.000114421	0.998695
rad38	7.20623e-05	0.999127	9.94528e-05	0.998794
PAH10+CH3	5.76591e-05	0.999184	7.95754e-05	0.998874
rad62	5.49575e-05	0.999239	7.58469e-05	0.998950
rad28	5.48415e-05	0.999294	7.56868e-05	0.999026
rad67	5.47384e-05	0.999349	7.55441e-05	0.999101
rad45	5.35044e-05	0.999402	7.38415e-05	0.999175
rad20	4.89039e-05	0.999451	6.74923e-05	0.999242
rad22	4.73971e-05	0.999499	6.54128e-05	0.999308
rad47	4.71655e-05	0.999546	6.50932e-05	0.999373
rad33	4.58837e-05	0.999592	6.33240e-05	0.999436
rad34	4.55778e-05	0.999637	6.29019e-05	0.999499
rad35	3.84154e-05	0.999676	5.30172e-05	0.999552
rad46	3.61103e-05	0.999712	4.98360e-05	0.999602
rad73	2.67641e-05	0.999739	3.69374e-05	0.999639
rad23	2.47288e-05	0.999763	3.41282e-05	0.999673
rad25	2.26196e-05	0.999786	3.12174e-05	0.999704
rad8	1.91441e-05	0.999805	2.64207e-05	0.999731
rad52	1.83347e-05	0.999823	2.53037e-05	0.999756
rad68syn	1.63330e-05	0.999840	2.25411e-05	0.999779
rad72	1.54999e-05	0.999855	2.13914e-05	0.999800
rad42	1.41122e-05	0.999869	1.94763e-05	0.999819
rad40syn	1.15732e-05	0.999881	1.59722e-05	0.999835
rad15	1.08578e-05	0.999892	1.49849e-05	0.999850
rad68anti	1.03787e-05	0.999902	1.43236e-05	0.999865
rad12	1.03071e-05	0.999912	1.42249e-05	0.999879
rad30	1.02758e-05	0.999923	1.41817e-05	0.999893
rad64	9.86250e-06	0.999933	1.36112e-05	0.999907
rad36	9.72183e-06	0.999942	1.34172e-05	0.999920
rad40anti	9.06666e-06	0.999951	1.25129e-05	0.999933
rad24	8.42475e-06	0.999960	1.16270e-05	0.999944
rad59	8.33047e-06	0.999968	1.14968e-05	0.999956
rad18	4.11505e-06	0.999972	5.67918e-06	0.999961
rad37	4.05472e-06	0.999976	5.59592e-06	0.999967
rad14	3.99135e-06	0.999980	5.50845e-06	0.999973
rad58	3.73584e-06	0.999984	5.15583e-06	0.999978
rad60syn	3.44838e-06	0.999987	4.75910e-06	0.999983
rad60anti	2.61194e-06	0.999990	3.60472e-06	0.999986
rad65	2.50375e-06	0.999993	3.45544e-06	0.999990
rad26	1.76688e-06	0.999994	2.43847e-06	0.999992
rad10	1.20742e-06	0.999996	1.66637e-06	0.999994
rad43	1.09000e-06	0.999997	1.50431e-06	0.999995
rad3	1.07319e-06	0.999998	1.48112e-06	0.999997
rad4	7.24332e-07	0.999998	9.99647e-07	0.999998
rad61	6.47436e-07	0.999999	8.93525e-07	0.999999
rad2	3.68233e-07	0.999999	5.08197e-07	0.999999
rad41	3.16602e-07	1.000000	4.36944e-07	1.000000
rad5	2.00384e-07	1.000000	2.76550e-07	1.000000
rad27	9.71825e-08	1.000000	1.34122e-07	1.000000
rad1	8.38018e-08	1.000000	1.15654e-07	1.000000

100000000. Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	2.23655e-11 (1.00)	1.60276e-11 (1.00)		
Formation of rad11	4.62280e-12 (0.207)	2.06352e-12 (0.129)		
Formation of rad6	6.82518e-12 (0.305)	3.04662e-12 (0.190)		
H-abstraction	1.09175e-11 (0.488)	1.09175e-11 (0.681)		
species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.681167	0.681167

Phenyl+Allene	0.283376	0.771517	0.00000	0.681167
PhCH2CCH+H	0.0872030	0.858720	0.121686	0.802853
rad6	0.0514864	0.910206	0.0718456	0.874698
PhCHCCH2+H	0.0384135	0.948619	0.0536035	0.928302
C2H2+PhCH2	0.0135585	0.962178	0.0189199	0.947222
rad11	0.00999120	0.972169	0.0139421	0.961164
PhCCH+CH3	0.00689025	0.979059	0.00961490	0.970779
PhcycC3H3_A+H	0.00571118	0.984771	0.00796956	0.978748
PAH7+H	0.00283313	0.987604	0.00395344	0.982702
Ph+MeAc	0.00272479	0.990328	0.00380228	0.986504
rad19syn	0.00229375	0.992622	0.00320077	0.989705
rad7	0.00139264	0.994015	0.00194334	0.991648
Indene+H	0.00132155	0.995336	0.00184413	0.993492
rad54	0.000808129	0.996145	0.00112769	0.994620
PAH1+H	0.000466233	0.996611	0.000650595	0.995270
rad13	0.000357270	0.996968	0.000498547	0.995769
rad39	0.000280827	0.997249	0.000391875	0.996161
rad56	0.000248960	0.997498	0.000347407	0.996508
rad21	0.000191335	0.997689	0.000266995	0.996775
PAH8+H	0.000155944	0.997845	0.000217610	0.996993
rad50	0.000140355	0.997985	0.000195855	0.997189
rad53	0.000135949	0.998121	0.000189708	0.997378
PAH3+H	0.000123969	0.998245	0.000172991	0.997551
rad19anti	0.000120302	0.998366	0.000167874	0.997719
rad9	0.000118975	0.998485	0.000166021	0.997885
rad51	0.000113596	0.998598	0.000158516	0.998044
PAH9+H	0.000106895	0.998705	0.000149165	0.998193
rad55	0.000100068	0.998805	0.000139638	0.998333
rad70	9.57864e-05	0.998901	0.000133664	0.998466
rad71	8.41620e-05	0.998985	0.000117443	0.998584
PhCCCH3+H	8.17640e-05	0.999067	0.000114096	0.998698
rad38	7.27138e-05	0.999140	0.000101468	0.998799
rad62	6.17861e-05	0.999201	8.62179e-05	0.998885
PAH10+CH3	5.64699e-05	0.999258	7.88003e-05	0.998964
rad28	5.41983e-05	0.999312	7.56301e-05	0.999040
rad67	5.24063e-05	0.999364	7.31295e-05	0.999113
rad45	5.04639e-05	0.999415	7.04191e-05	0.999183
rad22	4.95664e-05	0.999465	6.91667e-05	0.999253
rad20	4.65463e-05	0.999511	6.49524e-05	0.999318
rad47	4.35629e-05	0.999555	6.07891e-05	0.999378
rad34	4.35369e-05	0.999598	6.07527e-05	0.999439
rad33	3.84643e-05	0.999637	5.36743e-05	0.999493
rad35	3.75977e-05	0.999674	5.24650e-05	0.999545
rad46	3.63622e-05	0.999711	5.07410e-05	0.999596
rad23	3.13767e-05	0.999742	4.37841e-05	0.999640
rad73	2.71173e-05	0.999769	3.78404e-05	0.999678
rad25	2.22070e-05	0.999791	3.09884e-05	0.999709
rad52	1.84874e-05	0.999810	2.57980e-05	0.999734
rad8	1.68423e-05	0.999827	2.35023e-05	0.999758
rad42	1.60247e-05	0.999843	2.23614e-05	0.999780
rad72	1.57722e-05	0.999858	2.20091e-05	0.999802
rad68syn	1.55584e-05	0.999874	2.17108e-05	0.999824
rad40syn	1.10937e-05	0.999885	1.54805e-05	0.999839
rad64	1.03949e-05	0.999895	1.45054e-05	0.999854
rad15	1.03061e-05	0.999906	1.43816e-05	0.999868
rad30	9.99345e-06	0.999916	1.39452e-05	0.999882
rad68anti	9.88657e-06	0.999926	1.37960e-05	0.999896
rad36	9.15722e-06	0.999935	1.27783e-05	0.999909
rad12	9.13265e-06	0.999944	1.27440e-05	0.999922
rad40anti	8.70622e-06	0.999953	1.21489e-05	0.999934
rad59	8.07479e-06	0.999961	1.12678e-05	0.999945
rad24	7.95957e-06	0.999969	1.11070e-05	0.999956
rad18	4.06016e-06	0.999973	5.66570e-06	0.999962
rad14	3.92408e-06	0.999977	5.47580e-06	0.999967
rad37	3.86877e-06	0.999981	5.39861e-06	0.999973
rad58	3.62532e-06	0.999984	5.05890e-06	0.999978
rad60syn	3.34397e-06	0.999987	4.66628e-06	0.999982
rad65	2.63592e-06	0.999990	3.67825e-06	0.999986
rad60anti	2.53260e-06	0.999993	3.53408e-06	0.999990
rad26	1.82903e-06	0.999994	2.55229e-06	0.999992
rad43	1.20123e-06	0.999996	1.67624e-06	0.999994
rad10	1.10024e-06	0.999997	1.53531e-06	0.999995
rad3	9.05971e-07	0.999998	1.26422e-06	0.999997
rad61	6.44391e-07	0.999998	8.99206e-07	0.999998
rad4	6.17006e-07	0.999999	8.60993e-07	0.999998
rad41	3.52778e-07	0.999999	4.92279e-07	0.999999
rad5	3.32402e-07	1.000000	4.63845e-07	0.999999
rad2	3.19099e-07	1.000000	4.45283e-07	1.000000
rad27	9.39299e-08	1.000000	1.31073e-07	1.000000
rad1	7.39438e-08	1.000000	1.03183e-07	1.000000

100000000. Pa, 2500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.28090e-11 (1.00)	2.36483e-11 (1.00)
Formation of rad11	6.43164e-12 (0.196)	2.78817e-12 (0.118)
Formation of rad6	9.73932e-12 (0.297)	4.22207e-12 (0.179)
H-abstraction	1.66381e-11 (0.507)	1.66381e-11 (0.704)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.703563	0.703563
Phenyl+Allene	0.279213	0.786332	0.00000	0.703563
PhCH2CCH+H	0.0830806	0.869413	0.115264	0.818826
rad6	0.0454438	0.914856	0.0630475	0.881874
PhCHCCH2+H	0.0369310	0.951787	0.0512371	0.933111
C2H2+PhCH2	0.0126717	0.964459	0.0175804	0.950691
rad11	0.00793288	0.972392	0.0110059	0.961697
PhCCH+CH3	0.00683829	0.979230	0.00948724	0.971185
PhcycC3H3_A+H	0.00571935	0.984950	0.00793486	0.979119
PAH7+H	0.00280154	0.987751	0.00388677	0.983006
Ph+MeAc	0.00269410	0.990445	0.00373772	0.986744
rad19syn	0.00229324	0.992738	0.00318157	0.989925
rad7	0.00134268	0.994081	0.00186280	0.991788
Indene+H	0.00133118	0.995412	0.00184684	0.993635
rad54	0.000799163	0.996211	0.00110874	0.994744
PAH1+H	0.000467261	0.996679	0.000648267	0.995392
rad13	0.000339683	0.997018	0.000471267	0.995863
rad39	0.000280527	0.997299	0.000389196	0.996253
rad56	0.000246882	0.997546	0.000342518	0.996595
rad21	0.000184054	0.997730	0.000255352	0.996850
PAH8+H	0.000144406	0.997874	0.000200345	0.997051
rad50	0.000141957	0.998016	0.000196947	0.997248
rad53	0.000134669	0.998151	0.000186836	0.997435
PAH3+H	0.000118377	0.998269	0.000164233	0.997599
rad19anti	0.000115843	0.998385	0.000160718	0.997760
rad51	0.000115249	0.998500	0.000159893	0.997919
rad9	0.000114624	0.998615	0.000159026	0.998078
PAH9+H	0.000109306	0.998724	0.000151648	0.998230
rad55	9.89568e-05	0.998823	0.000137290	0.998367
rad70	9.11323e-05	0.998914	0.000126434	0.998494
rad71	8.58624e-05	0.999000	0.000119123	0.998613
PhCCCH3+H	7.91927e-05	0.999079	0.000109870	0.998723
rad38	7.38972e-05	0.999153	0.000102523	0.998825
rad62	6.19803e-05	0.999215	8.59899e-05	0.998911
rad28	5.77164e-05	0.999273	8.00739e-05	0.998991
PAH10+CH3	5.53136e-05	0.999328	7.67408e-05	0.999068
rad22	5.09989e-05	0.999379	7.07545e-05	0.999139
rad67	5.04213e-05	0.999430	6.99530e-05	0.999209
rad45	4.84193e-05	0.999478	6.71757e-05	0.999276
rad20	4.48500e-05	0.999523	6.22237e-05	0.999338
rad34	4.10790e-05	0.999564	5.69919e-05	0.999395
rad47	4.08573e-05	0.999605	5.66841e-05	0.999452
rad46	3.68453e-05	0.999642	5.11182e-05	0.999503
rad35	3.68102e-05	0.999679	5.10693e-05	0.999554
rad33	3.64054e-05	0.999715	5.05079e-05	0.999605
rad23	3.46649e-05	0.999750	4.80931e-05	0.999653
rad73	2.76188e-05	0.999777	3.83175e-05	0.999691
rad25	2.17392e-05	0.999799	3.01604e-05	0.999721
rad52	1.87666e-05	0.999818	2.60363e-05	0.999747
rad72	1.61243e-05	0.999834	2.23704e-05	0.999770
rad42	1.61164e-05	0.999850	2.23595e-05	0.999792
rad8	1.49667e-05	0.999865	2.07644e-05	0.999813
rad68syn	1.44597e-05	0.999880	2.00610e-05	0.999833
rad64	1.03943e-05	0.999890	1.44208e-05	0.999847
rad40syn	1.03039e-05	0.999900	1.42953e-05	0.999861
rad15	9.82268e-06	0.999910	1.36277e-05	0.999875
rad30	9.74333e-06	0.999920	1.35176e-05	0.999889
rad68anti	9.18913e-06	0.999929	1.27488e-05	0.999901
rad36	8.77896e-06	0.999938	1.21797e-05	0.999914
rad12	8.32634e-06	0.999946	1.15517e-05	0.999925
rad40anti	8.08577e-06	0.999954	1.12180e-05	0.999936
rad59	7.73040e-06	0.999962	1.07250e-05	0.999947
rad24	7.61709e-06	0.999969	1.05677e-05	0.999958
rad18	4.08376e-06	0.999974	5.66569e-06	0.999963
rad37	3.78211e-06	0.999977	5.24718e-06	0.999969
rad14	3.60805e-06	0.999981	5.00570e-06	0.999974
rad58	3.44364e-06	0.999984	4.77762e-06	0.999978
rad60syn	3.21833e-06	0.999988	4.46503e-06	0.999983

rad65	2.71462e-06	0.999990	3.76618e-06	0.999987
rad60anti	2.43522e-06	0.999993	3.37856e-06	0.999990
rad26	1.82108e-06	0.999995	2.52652e-06	0.999992
rad43	1.20250e-06	0.999996	1.66832e-06	0.999994
rad10	1.02993e-06	0.999997	1.42890e-06	0.999996
rad3	8.65115e-07	0.999998	1.20024e-06	0.999997
rad61	6.32318e-07	0.999998	8.77259e-07	0.999998
rad4	5.86002e-07	0.999999	8.13003e-07	0.999998
rad41	3.54097e-07	0.999999	4.91265e-07	0.999999
rad5	3.53518e-07	1.000000	4.90461e-07	0.999999
rad2	3.03262e-07	1.000000	4.20736e-07	1.000000
rad27	8.63479e-08	1.000000	1.19797e-07	1.000000
rad1	6.98364e-08	1.000000	9.68888e-08	1.000000

100000000. Pa, 2750.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	4.60596e-11	(1.00)	3.34512e-11	(1.00)
Formation of rad11	8.62280e-12	(0.187)	3.67065e-12	(0.110)
Formation of rad6	1.33313e-11	(0.289)	5.67502e-12	(0.170)
H-abstraction	2.41055e-11	(0.523)	2.41055e-11	(0.721)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.720618	0.720618
Phenyl+Allene	0.273742	0.797096	0.000000	0.720618
PhCH2CCH+H	0.0803753	0.877472	0.110671	0.831288
rad6	0.0412435	0.918715	0.0567892	0.888078
PhCHCCH2+H	0.0357747	0.954490	0.0492590	0.937337
C2H2+PhCH2	0.0120065	0.966496	0.0165320	0.953869
PhCCH+CH3	0.00681179	0.973308	0.00937931	0.963248
rad11	0.00611279	0.979421	0.00841684	0.971665
PhcycC3H3_A+H	0.00570401	0.985125	0.00785396	0.979519
PAH7+H	0.00279114	0.987916	0.00384318	0.983362
Ph+MeAc	0.00264157	0.990558	0.00363722	0.986999
rad19syn	0.00229418	0.992852	0.00315892	0.990158
rad7	0.00134083	0.994193	0.00184622	0.992004
Indene+H	0.00132537	0.995518	0.00182493	0.993829
rad54	0.000789649	0.996308	0.00108729	0.994916
PAH1+H	0.000458105	0.996766	0.000630775	0.995547
rad13	0.000333663	0.997099	0.000459427	0.996007
rad39	0.000281413	0.997381	0.000387484	0.996394
rad56	0.000240109	0.997621	0.000330613	0.996725
rad21	0.000170336	0.997791	0.000234539	0.996959
rad50	0.000141500	0.997933	0.000194835	0.997154
rad53	0.000131334	0.998064	0.000180836	0.997335
PAH8+H	0.000131213	0.998195	0.000180671	0.997516
rad51	0.000115223	0.998311	0.000158653	0.997674
rad19anti	0.000112419	0.998423	0.000154793	0.997829
rad9	0.000111736	0.998535	0.000153852	0.997983
PAH3+H	0.000111638	0.998646	0.000153717	0.998137
PAH9+H	0.000109539	0.998756	0.000150827	0.998287
rad55	9.74630e-05	0.998853	0.000134199	0.998422
rad70	8.66522e-05	0.998940	0.000119313	0.998541
rad71	8.62390e-05	0.999026	0.000118744	0.998660
PhCCCH3+H	7.70802e-05	0.999103	0.000106133	0.998766
rad38	7.40797e-05	0.999177	0.000102002	0.998868
rad28	6.10873e-05	0.999238	8.41122e-05	0.998952
rad62	5.99196e-05	0.999298	8.25046e-05	0.999034
PAH10+CH3	5.42489e-05	0.999353	7.46962e-05	0.999109
rad22	4.96007e-05	0.999402	6.82958e-05	0.999177
rad67	4.86955e-05	0.999451	6.70495e-05	0.999244
rad45	4.61207e-05	0.999497	6.35044e-05	0.999308
rad20	4.23829e-05	0.999539	5.83579e-05	0.999366
rad34	3.86292e-05	0.999578	5.31893e-05	0.999420
rad47	3.80428e-05	0.999616	5.23819e-05	0.999472
rad46	3.68011e-05	0.999653	5.06721e-05	0.999523
rad33	3.59474e-05	0.999689	4.94967e-05	0.999572
rad35	3.58607e-05	0.999725	4.93775e-05	0.999621
rad23	3.50444e-05	0.999760	4.82532e-05	0.999670
rad73	2.76988e-05	0.999787	3.81390e-05	0.999708
rad25	2.05660e-05	0.999808	2.83176e-05	0.999736
rad52	1.87733e-05	0.999827	2.58494e-05	0.999762
rad72	1.62245e-05	0.999843	2.23399e-05	0.999784
rad42	1.55767e-05	0.999859	2.14478e-05	0.999806
rad8	1.34302e-05	0.999872	1.84924e-05	0.999824
rad68syn	1.32773e-05	0.999885	1.82818e-05	0.999843
rad64	1.02467e-05	0.999896	1.41090e-05	0.999857
rad15	9.51751e-06	0.999905	1.31048e-05	0.999870

rad30	9.47948e-06	0.999915	1.30525e-05	0.999883
rad40syn	9.41417e-06	0.999924	1.29626e-05	0.999896
rad68anti	8.43901e-06	0.999932	1.16198e-05	0.999907
rad36	8.35807e-06	0.999941	1.15084e-05	0.999919
rad12	7.75850e-06	0.999949	1.06828e-05	0.999930
rad40anti	7.37823e-06	0.999956	1.01593e-05	0.999940
rad59	7.32347e-06	0.999963	1.00838e-05	0.999950
rad24	7.17661e-06	0.999970	9.88164e-06	0.999960
rad18	4.02251e-06	0.999974	5.53867e-06	0.999965
rad37	3.74258e-06	0.999978	5.15323e-06	0.999970
rad14	3.27601e-06	0.999981	4.51079e-06	0.999975
rad58	3.21542e-06	0.999985	4.42737e-06	0.999979
rad60syn	3.07470e-06	0.999988	4.23362e-06	0.999984
rad65	2.71748e-06	0.999990	3.74177e-06	0.999987
rad60anti	2.32325e-06	0.999993	3.19893e-06	0.999991
rad26	1.81300e-06	0.999995	2.49636e-06	0.999993
rad43	1.16686e-06	0.999996	1.60667e-06	0.999995
rad10	9.90092e-07	0.999997	1.36328e-06	0.999996
rad3	8.54115e-07	0.999998	1.17605e-06	0.999997
rad61	6.17375e-07	0.999998	8.50076e-07	0.999998
rad4	5.74663e-07	0.999999	7.91263e-07	0.999999
rad41	3.43356e-07	0.999999	4.72773e-07	0.999999
rad5	3.35562e-07	0.999999	4.62042e-07	1.000000
rad2	2.98269e-07	1.000000	4.10695e-07	1.000000
rad27	7.88681e-08	1.000000	1.08595e-07	1.000000
rad1	6.76965e-08	1.000000	9.32125e-08	1.000000

100000000. Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.56414e-11 (1.00)
Formation of rad11	1.12221e-11 (0.180)	4.69861e-12 (0.103)
Formation of rad6	1.76534e-11 (0.283)	7.39138e-12 (0.162)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.735)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.735109	0.735109
Phenyl+Allene	0.268882	0.806334	0.000000	0.735109
PhCH2CCH+H	0.0786592	0.884993	0.107588	0.842697
rad6	0.0369522	0.921945	0.0505420	0.893239
PhCHCCH2+H	0.0347962	0.956741	0.0475932	0.940832
C2H2+PhCH2	0.0115645	0.968306	0.0158175	0.956649
PhCCH+CH3	0.00680770	0.975113	0.00931136	0.965961
PhcycC3H3_A+H	0.00564966	0.980763	0.00772747	0.973688
rad11	0.00459116	0.985354	0.00627963	0.979968
PAH7+H	0.00279032	0.988144	0.00381652	0.983784
Ph+MeAc	0.00259211	0.990737	0.00354540	0.987330
rad19syn	0.00228602	0.993023	0.00312674	0.990457
rad7	0.00134048	0.994363	0.00183346	0.992290
Indene+H	0.00129596	0.995659	0.00177258	0.994063
rad54	0.000782318	0.996441	0.00107003	0.995133
PAH1+H	0.000443347	0.996885	0.000606396	0.995739
rad13	0.000325351	0.997210	0.000445006	0.996184
rad39	0.000280990	0.997491	0.000384330	0.996568
rad56	0.000231702	0.997723	0.000316915	0.996885
rad21	0.000151467	0.997874	0.000207172	0.997092
rad50	0.000138080	0.998012	0.000188861	0.997281
rad53	0.000127390	0.998140	0.000174241	0.997456
PAH8+H	0.000118493	0.998258	0.000162071	0.997618
rad51	0.000112718	0.998371	0.000154173	0.997772
rad19anti	0.000109960	0.998481	0.000150400	0.997922
rad9	0.000108431	0.998589	0.000148309	0.998070
PAH9+H	0.000107121	0.998696	0.000146517	0.998217
PAH3+H	0.000104637	0.998801	0.000143120	0.998360
rad55	9.61000e-05	0.998897	0.000131443	0.998492
rad71	8.47028e-05	0.998982	0.000115854	0.998607
rad70	8.27749e-05	0.999065	0.000113217	0.998721
PhCCCH3+H	7.52849e-05	0.999140	0.000102972	0.998824
rad38	7.27427e-05	0.999213	9.94954e-05	0.998923
rad28	6.32841e-05	0.999276	8.65581e-05	0.999010
rad62	5.67519e-05	0.999333	7.76239e-05	0.999087
PAH10+CH3	5.31635e-05	0.999386	7.27152e-05	0.999160
rad67	4.71730e-05	0.999433	6.45221e-05	0.999224
rad22	4.55906e-05	0.999479	6.23574e-05	0.999287
rad45	4.32105e-05	0.999522	5.91019e-05	0.999346
rad20	3.89157e-05	0.999561	5.32277e-05	0.999399
rad34	3.64916e-05	0.999597	4.99120e-05	0.999449
rad46	3.59914e-05	0.999633	4.92278e-05	0.999498

rad33	3.55501e-05	0.999669	4.86244e-05	0.999547
rad47	3.48805e-05	0.999704	4.77084e-05	0.999595
rad35	3.47060e-05	0.999738	4.74700e-05	0.999642
rad23	3.38356e-05	0.999772	4.62793e-05	0.999688
rad73	2.71696e-05	0.999799	3.71618e-05	0.999726
rad25	1.86974e-05	0.999818	2.55737e-05	0.999751
rad52	1.83767e-05	0.999836	2.51351e-05	0.999776
rad72	1.59607e-05	0.999852	2.18306e-05	0.999798
rad42	1.47243e-05	0.999867	2.01394e-05	0.999818
rad68syn	1.21928e-05	0.999879	1.66769e-05	0.999835
rad8	1.21908e-05	0.999892	1.66742e-05	0.999852
rad64	1.00085e-05	0.999902	1.36893e-05	0.999865
rad15	9.29186e-06	0.999911	1.27091e-05	0.999878
rad30	9.19556e-06	0.999920	1.25774e-05	0.999891
rad40syn	8.56945e-06	0.999929	1.17210e-05	0.999902
rad36	7.82840e-06	0.999936	1.07074e-05	0.999913
rad68anti	7.75121e-06	0.999944	1.06019e-05	0.999924
rad12	7.33746e-06	0.999952	1.00359e-05	0.999934
rad59	6.90382e-06	0.999958	9.44285e-06	0.999943
rad40anti	6.70011e-06	0.999965	9.16422e-06	0.999952
rad24	6.59960e-06	0.999972	9.02671e-06	0.999961
rad18	3.81149e-06	0.999976	5.21324e-06	0.999966
rad37	3.72687e-06	0.999979	5.09751e-06	0.999972
rad58	2.97338e-06	0.999982	4.06690e-06	0.999976
rad14	2.96450e-06	0.999985	4.05474e-06	0.999980
rad60syn	2.92713e-06	0.999988	4.00364e-06	0.999984
rad65	2.64561e-06	0.999991	3.61859e-06	0.999987
rad60anti	2.20818e-06	0.999993	3.02028e-06	0.999990
rad26	1.82279e-06	0.999995	2.49315e-06	0.999993
rad43	1.11281e-06	0.999996	1.52207e-06	0.999994
rad10	9.67976e-07	0.999997	1.32397e-06	0.999996
rad3	8.37190e-07	0.999998	1.14508e-06	0.999997
rad61	5.99722e-07	0.999998	8.20285e-07	0.999998
rad4	5.61122e-07	0.999999	7.67487e-07	0.999998
rad41	3.26511e-07	0.999999	4.46593e-07	0.999999
rad5	3.12163e-07	1.000000	4.26967e-07	0.999999
rad2	2.93318e-07	1.000000	4.01190e-07	1.000000
rad27	7.20211e-08	1.000000	9.85087e-08	1.000000
rad1	6.57092e-08	1.000000	8.98751e-08	1.000000

100000000. Pa, 3250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.22129e-11 (1.00)	6.04259e-11 (1.00)
Formation of rad11	1.42538e-11 (0.173)	5.86259e-12 (0.0970)
Formation of rad6	2.27549e-11 (0.277)	9.35907e-12 (0.155)
H-abstraction	4.52043e-11 (0.550)	4.52043e-11 (0.748)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.549844	0.549844	0.748094	0.748094
Phenyl+Allene	0.265007	0.814851	0.000000	0.748094
PhCH2CCH+H	0.0774984	0.892349	0.105441	0.853535
PhCHCCH2+H	0.0339067	0.926256	0.0461321	0.899667
rad6	0.0323523	0.958608	0.0440171	0.943684
C2H2+PhCH2	0.0113070	0.969915	0.0153838	0.959068
PhCCH+CH3	0.00680586	0.976721	0.00925976	0.968328
PhcycC3H3_A+H	0.00554696	0.982268	0.00754698	0.975875
rad11	0.00339415	0.985662	0.00461794	0.980493
PAH7+H	0.00278925	0.988451	0.00379494	0.984288
Ph+MeAc	0.00255234	0.991004	0.00347260	0.987760
rad19syn	0.00226246	0.993266	0.00307822	0.990838
rad7	0.00131632	0.994583	0.00179093	0.992629
Indene+H	0.00124509	0.995828	0.00169401	0.994323
rad54	0.000777726	0.996605	0.00105814	0.995381
PAH1+H	0.000425099	0.997030	0.000578371	0.995960
rad13	0.000310014	0.997340	0.000421791	0.996382
rad39	0.000278232	0.997619	0.000378549	0.996760
rad56	0.000223344	0.997842	0.000303872	0.997064
rad50	0.000132046	0.997974	0.000179656	0.997244
rad21	0.000130386	0.998104	0.000177398	0.997421
rad53	0.000123619	0.998228	0.000168190	0.997589
rad19anti	0.000108260	0.998336	0.000147294	0.997737
rad51	0.000107976	0.998444	0.000146908	0.997883
PAH8+H	0.000107964	0.998552	0.000146891	0.998030
rad9	0.000103664	0.998656	0.000141041	0.998171
PAH9+H	0.000102475	0.998758	0.000139423	0.998311
PAH3+H	9.83352e-05	0.998857	0.000133791	0.998445
rad55	9.50613e-05	0.998952	0.000129336	0.998574

rad71	8.14319e-05	0.999033	0.000110793	0.998685
rad70	7.97460e-05	0.999113	0.000108499	0.998793
PhCCCH3+H	7.36973e-05	0.999187	0.000100270	0.998894
rad38	7.00164e-05	0.999257	9.52613e-05	0.998989
rad28	6.32051e-05	0.999320	8.59939e-05	0.999075
rad62	5.30099e-05	0.999373	7.21232e-05	0.999147
PAH10+CH3	5.20493e-05	0.999425	7.08158e-05	0.999218
rad67	4.58187e-05	0.999471	6.23389e-05	0.999280
rad22	3.99541e-05	0.999511	5.43598e-05	0.999334
rad45	3.97833e-05	0.999551	5.41273e-05	0.999389
rad34	3.48610e-05	0.999585	4.74304e-05	0.999436
rad20	3.48050e-05	0.999620	4.73543e-05	0.999483
rad33	3.45231e-05	0.999655	4.69706e-05	0.999530
rad46	3.45023e-05	0.999689	4.69424e-05	0.999577
rad35	3.34127e-05	0.999723	4.54600e-05	0.999623
rad23	3.16952e-05	0.999754	4.31233e-05	0.999666
rad47	3.14889e-05	0.999786	4.28424e-05	0.999709
rad73	2.60907e-05	0.999812	3.54978e-05	0.999744
rad52	1.76155e-05	0.999830	2.39668e-05	0.999768
rad25	1.64259e-05	0.999846	2.23484e-05	0.999790
rad72	1.53649e-05	0.999861	2.09048e-05	0.999811
rad42	1.37006e-05	0.999875	1.86404e-05	0.999830
rad68syn	1.13439e-05	0.999886	1.54341e-05	0.999845
rad8	1.11938e-05	0.999898	1.52298e-05	0.999861
rad64	9.71077e-06	0.999907	1.32121e-05	0.999874
rad15	9.02356e-06	0.999916	1.22771e-05	0.999886
rad30	8.90103e-06	0.999925	1.21104e-05	0.999898
rad40syn	7.88237e-06	0.999933	1.07244e-05	0.999909
rad68anti	7.21308e-06	0.999940	9.81378e-06	0.999919
rad36	7.20637e-06	0.999947	9.80466e-06	0.999929
rad12	6.98242e-06	0.999954	9.49996e-06	0.999938
rad59	6.52596e-06	0.999961	8.87896e-06	0.999947
rad40anti	6.14260e-06	0.999967	8.35733e-06	0.999955
rad24	5.92977e-06	0.999973	8.06782e-06	0.999963
rad37	3.72330e-06	0.999977	5.06575e-06	0.999968
rad18	3.46942e-06	0.999980	4.72034e-06	0.999973
rad60syn	2.79190e-06	0.999983	3.79854e-06	0.999977
rad58	2.75345e-06	0.999986	3.74622e-06	0.999981
rad14	2.68468e-06	0.999988	3.65266e-06	0.999984
rad65	2.51524e-06	0.999991	3.42212e-06	0.999988
rad60anti	2.10314e-06	0.999993	2.86145e-06	0.999991
rad26	1.82684e-06	0.999995	2.48552e-06	0.999993
rad43	1.04891e-06	0.999996	1.42710e-06	0.999995
rad10	9.51306e-07	0.999997	1.29430e-06	0.999996
rad3	8.01651e-07	0.999998	1.09069e-06	0.999997
rad61	5.79986e-07	0.999998	7.89106e-07	0.999998
rad4	5.37311e-07	0.999999	7.31041e-07	0.999999
rad41	3.06206e-07	0.999999	4.16610e-07	0.999999
rad5	2.91415e-07	0.999999	3.96487e-07	0.999999
rad2	2.83344e-07	1.000000	3.85507e-07	1.000000
rad27	6.58650e-08	1.000000	8.96130e-08	1.000000
rad1	6.30214e-08	1.000000	8.57440e-08	1.000000

100000000. Pa, 3500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.05713e-10 (1.00)	7.80083e-11 (1.00)
Formation of rad11	1.77412e-11 (0.168)	7.15352e-12 (0.0917)
Formation of rad6	2.86822e-11 (0.271)	1.15651e-11 (0.148)
H-abstraction	5.92897e-11 (0.561)	5.92897e-11 (0.760)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.760043	0.760043
Phenyl+Allene	0.262075	0.822930	0.000000	0.760043
PhCH2CCH+H	0.0765593	0.899489	0.103750	0.863793
PhCHCCH2+H	0.0330607	0.932550	0.0448023	0.908595
rad6	0.0276315	0.960182	0.0374450	0.946040
C2H2+PhCH2	0.0111805	0.971362	0.0151513	0.961191
PhCCH+CH3	0.00678611	0.978148	0.00919622	0.970388
PhcycC3H3_A+H	0.00540509	0.983553	0.00732470	0.977712
PAH7+H	0.00277887	0.986332	0.00376579	0.981478
Ph+MeAc	0.00252369	0.988856	0.00341998	0.984898
rad11	0.00249397	0.991350	0.00337972	0.988278
rad19syn	0.00222372	0.993573	0.00301347	0.991291
rad7	0.00125782	0.994831	0.00170454	0.992996
Indene+H	0.00117865	0.996010	0.00159725	0.994593
rad54	0.000775452	0.996785	0.00105086	0.995644
PAH1+H	0.000406040	0.997191	0.000550247	0.996194

rad13	0.000287237	0.997479	0.000389251	0.996584
rad39	0.000272698	0.997751	0.000369548	0.996953
rad56	0.000216536	0.997968	0.000293441	0.997246
rad50	0.000124229	0.998092	0.000168349	0.997415
rad53	0.000120668	0.998213	0.000163524	0.997578
rad21	0.000109674	0.998322	0.000148626	0.997727
rad19anti	0.000106913	0.998429	0.000144884	0.997872
rad51	0.000101654	0.998531	0.000137757	0.998010
PAH8+H	0.000100700	0.998632	0.000136463	0.998146
rad9	9.70823e-05	0.998729	0.000131561	0.998278
PAH9+H	9.63656e-05	0.998825	0.000130590	0.998408
rad55	9.44149e-05	0.998920	0.000127947	0.998536
PAH3+H	9.33439e-05	0.999013	0.000126495	0.998663
rad70	7.75698e-05	0.999091	0.000105119	0.998768
rad71	7.69233e-05	0.999167	0.000104243	0.998872
PhCCCH3+H	7.22012e-05	0.999240	9.78438e-05	0.998970
rad38	6.62855e-05	0.999306	8.98271e-05	0.999060
rad28	6.64018e-05	0.999366	8.18540e-05	0.999142
PAH10+CH3	5.09128e-05	0.999417	6.89945e-05	0.999211
rad62	4.92980e-05	0.999467	6.68061e-05	0.999277
rad67	4.45877e-05	0.999511	6.04233e-05	0.999338
rad45	3.60746e-05	0.999547	4.88866e-05	0.999387
rad34	3.37822e-05	0.999581	4.57801e-05	0.999432
rad22	3.37772e-05	0.999615	4.57734e-05	0.999478
rad33	3.26357e-05	0.999647	4.42264e-05	0.999522
rad46	3.25423e-05	0.999680	4.40997e-05	0.999567
rad35	3.20671e-05	0.999712	4.34559e-05	0.999610
rad20	3.05237e-05	0.999743	4.13645e-05	0.999651
rad23	2.90056e-05	0.999772	3.93071e-05	0.999691
rad47	2.80747e-05	0.999800	3.80454e-05	0.999729
rad73	2.46225e-05	0.999824	3.33672e-05	0.999762
rad52	1.65962e-05	0.999841	2.24904e-05	0.999785
rad72	1.45298e-05	0.999855	1.96901e-05	0.999804
rad25	1.40650e-05	0.999869	1.90603e-05	0.999823
rad42	1.26646e-05	0.999882	1.71625e-05	0.999841
rad68syn	1.07981e-05	0.999893	1.46331e-05	0.999855
rad8	1.03658e-05	0.999903	1.40472e-05	0.999869
rad64	9.39964e-06	0.999913	1.27380e-05	0.999882
rad15	8.62670e-06	0.999921	1.16905e-05	0.999894
rad30	8.60167e-06	0.999930	1.16566e-05	0.999905
rad40syn	7.41791e-06	0.999937	1.00524e-05	0.999915
rad68anti	6.86714e-06	0.999944	9.30600e-06	0.999925
rad12	6.62675e-06	0.999951	8.98024e-06	0.999934
rad36	6.53422e-06	0.999957	8.85486e-06	0.999942
rad59	6.22278e-06	0.999964	8.43282e-06	0.999951
rad40anti	5.76036e-06	0.999969	7.80618e-06	0.999959
rad24	5.22930e-06	0.999975	7.08652e-06	0.999966
rad37	3.71601e-06	0.999978	5.03576e-06	0.999971
rad18	3.05247e-06	0.999981	4.13657e-06	0.999975
rad60syn	2.67813e-06	0.999984	3.62927e-06	0.999979
rad58	2.58101e-06	0.999987	3.49766e-06	0.999982
rad14	2.44832e-06	0.999989	3.31786e-06	0.999985
rad65	2.34850e-06	0.999991	3.18257e-06	0.999989
rad60anti	2.01560e-06	0.999993	2.73145e-06	0.999991
rad26	1.79491e-06	0.999995	2.43239e-06	0.999994
rad43	9.85117e-07	0.999996	1.33498e-06	0.999995
rad10	9.28467e-07	0.999997	1.25821e-06	0.999996
rad3	7.46213e-07	0.999998	1.01123e-06	0.999997
rad61	5.59498e-07	0.999998	7.58206e-07	0.999998
rad4	5.01974e-07	0.999999	6.80253e-07	0.999999
rad41	2.85499e-07	0.999999	3.86894e-07	0.999999
rad5	2.73758e-07	0.999999	3.70985e-07	1.000000
rad2	2.66951e-07	1.000000	3.61759e-07	1.000000
rad27	6.05186e-08	1.000000	8.20117e-08	1.000000
rad1	5.93654e-08	1.000000	8.04489e-08	1.000000

100000000. Pa, 3750.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.33217e-10	(1.00)	9.85976e-11	(1.00)
Formation of rad11	2.17064e-11	(0.163)	8.56585e-12	(0.0869)
Formation of rad6	3.54800e-11	(0.266)	1.40012e-11	(0.142)
H-abstraction	7.60305e-11	(0.571)	7.60305e-11	(0.771)
species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.771119	0.771119
Phenyl+Allene	0.259872	0.830599	0.000000	0.771119
PhCH2CCH+H	0.0756361	0.906235	0.102194	0.873313

PhCCCH2+H	0.0322410	0.938476	0.0435615	0.916874
rad6	0.0230634	0.961540	0.0311614	0.948036
C2H2+PhCH2	0.0111354	0.972675	0.0150452	0.963081
PhCCH+CH3	0.00673465	0.979410	0.00909933	0.972180
PhcycC3H3_A+H	0.00524589	0.984655	0.00708783	0.979268
PAH7+H	0.00275194	0.987407	0.00371821	0.982986
Ph+MeAc	0.00250512	0.989913	0.00338473	0.986371
rad19syn	0.00217438	0.992087	0.00293784	0.989309
rad11	0.00183574	0.993923	0.00248031	0.991789
rad7	0.00116639	0.995089	0.00157593	0.993365
Indene+H	0.00110279	0.996192	0.00149000	0.994855
rad54	0.000774172	0.996966	0.00104600	0.995901
PAH1+H	0.000389265	0.997355	0.000525942	0.996427
rad39	0.000264324	0.997620	0.000357134	0.996784
rad13	0.000258935	0.997879	0.000349851	0.997134
rad56	0.000212373	0.998091	0.000286941	0.997421
rad53	0.000118954	0.998210	0.000160721	0.997582
rad50	0.000115475	0.998325	0.000156020	0.997738
rad19anti	0.000105452	0.998431	0.000142478	0.997880
PAH8+H	9.70938e-05	0.998528	0.000131185	0.998012
rad51	9.44477e-05	0.998622	0.000127610	0.998139
rad55	9.40897e-05	0.998716	0.000127126	0.998266
rad21	9.09092e-05	0.998807	0.000122829	0.998389
PAH3+H	8.98279e-05	0.998897	0.000121368	0.998510
PAH9+H	8.95296e-05	0.998987	0.000120965	0.998631
rad9	8.88826e-05	0.999076	0.000120091	0.998752
rad70	7.60787e-05	0.999152	0.000102792	0.998854
rad71	7.17143e-05	0.999223	9.68943e-05	0.998951
PhCCCH3+H	7.07034e-05	0.999294	9.55286e-05	0.999047
rad38	6.19557e-05	0.999356	8.37094e-05	0.999130
rad28	5.52654e-05	0.999411	7.46702e-05	0.999205
PAH10+CH3	4.97493e-05	0.999461	6.72169e-05	0.999272
rad62	4.63087e-05	0.999507	6.25682e-05	0.999335
rad67	4.34347e-05	0.999551	5.86852e-05	0.999394
rad34	3.31852e-05	0.999584	4.48372e-05	0.999438
rad45	3.23121e-05	0.999616	4.36574e-05	0.999482
rad35	3.07344e-05	0.999647	4.15258e-05	0.999524
rad46	3.03234e-05	0.999677	4.09705e-05	0.999565
rad33	2.99716e-05	0.999707	4.04951e-05	0.999605
rad22	2.78586e-05	0.999735	3.76403e-05	0.999643
rad20	2.64338e-05	0.999762	3.57152e-05	0.999678
rad23	2.60548e-05	0.999788	3.52032e-05	0.999714
rad47	2.48127e-05	0.999812	3.35248e-05	0.999747
rad73	2.29371e-05	0.999835	3.09909e-05	0.999778
rad52	1.54312e-05	0.999851	2.08494e-05	0.999799
rad72	1.35567e-05	0.999864	1.83168e-05	0.999817
rad25	1.18357e-05	0.999876	1.59914e-05	0.999833
rad42	1.18048e-05	0.999888	1.59497e-05	0.999849
rad68syn	1.05574e-05	0.999899	1.42643e-05	0.999864
rad8	9.63511e-06	0.999908	1.30182e-05	0.999877
rad64	9.12364e-06	0.999917	1.23271e-05	0.999889
rad30	8.29737e-06	0.999926	1.12108e-05	0.999900
rad15	8.07187e-06	0.999934	1.09061e-05	0.999911
rad40syn	7.19435e-06	0.999941	9.72042e-06	0.999921
rad68anti	6.71451e-06	0.999948	9.07214e-06	0.999930
rad12	6.22901e-06	0.999954	8.41612e-06	0.999938
rad59	6.00085e-06	0.999960	8.10789e-06	0.999946
rad36	5.85279e-06	0.999966	7.90782e-06	0.999954
rad40anti	5.57166e-06	0.999971	7.52797e-06	0.999962
rad24	4.54875e-06	0.999976	6.14590e-06	0.999968
rad37	3.68686e-06	0.999980	4.98138e-06	0.999973
rad18	2.61724e-06	0.999982	3.53620e-06	0.999976
rad60syn	2.58667e-06	0.999985	3.49489e-06	0.999980
rad58	2.46613e-06	0.999987	3.33204e-06	0.999983
rad14	2.26465e-06	0.999989	3.05981e-06	0.999986
rad65	2.16615e-06	0.999992	2.92672e-06	0.999989
rad60anti	1.94640e-06	0.999994	2.62981e-06	0.999992
rad26	1.71088e-06	0.999995	2.31160e-06	0.999994
rad43	9.33115e-07	0.999996	1.26075e-06	0.999995
rad10	8.91587e-07	0.999997	1.20464e-06	0.999997
rad3	6.75813e-07	0.999998	9.13101e-07	0.999998
rad61	5.39922e-07	0.999998	7.29497e-07	0.999998
rad4	4.57665e-07	0.999999	6.18360e-07	0.999999
rad41	2.68098e-07	0.999999	3.62233e-07	0.999999
rad5	2.57927e-07	0.999999	3.48491e-07	1.000000
rad2	2.45156e-07	1.000000	3.31236e-07	1.000000
rad27	5.61270e-08	1.000000	7.58341e-08	1.000000
rad1	5.48495e-08	1.000000	7.41081e-08	1.000000

10000000. Pa, 4000.00000 K


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Rate constant      | True (fraction)      Effective (fraction)
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Total              | 1.65008e-10 (1.00   ) 1.22416e-10 (1.00   )
Formation of rad11| 2.61707e-11 (0.159   ) 1.01003e-11 (0.0825  )
Formation of rad6  | 4.31906e-11 (0.262   ) 1.66690e-11 (0.136   )
H-abstraction     | 9.56470e-11 (0.580   ) 9.56470e-11 (0.781   )

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species           | PYtrue      Cumul      | PYeffective  Cumul
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Benzene+2-propynyl| 0.579650    0.579650    | 0.781325    0.781325
Phenyl+Allene     | 0.258120    0.837770    | 0.000000    0.781325
PhCH2CCH+H        | 0.0746345   0.912404    | 0.100602    0.881927
PhCHCCH2+H        | 0.0314464   0.943850    | 0.0423875   0.924315
rad6               | 0.0188835   0.962734    | 0.0254535   0.949768
C2H2+PhCH2        | 0.0111343   0.973868    | 0.0150083   0.964776
PhCCH+CH3         | 0.00664671  0.980515    | 0.00895930  0.973736
PhcycC3H3_A+H     | 0.00509334  0.985608    | 0.00686543  0.980601
PAH7+H            | 0.00270473  0.988313    | 0.00364579  0.984247
Ph+MeAc           | 0.00249432  0.990807    | 0.00336217  0.987609
rad19syn          | 0.00212037  0.992928    | 0.00285810  0.990467
rad11             | 0.00136130  0.994289    | 0.00183494  0.992302
rad7              | 0.00105128  0.995340    | 0.00141706  0.993719
Indene+H          | 0.00102266  0.996363    | 0.00137848  0.995098
rad54             | 0.000772091 0.997135    | 0.00104072  0.996138
PAH1+H           | 0.000377456 0.997512    | 0.000508784 0.996647
rad39            | 0.000253430 0.997766    | 0.000341605 0.996989
rad13            | 0.000227923 0.997994    | 0.000307225 0.997296
rad56            | 0.000211275 0.998205    | 0.000284782 0.997581
rad53            | 0.000118562 0.998324    | 0.000159812 0.997741
rad50            | 0.000106462 0.998430    | 0.000143503 0.997884
rad19anti        | 0.000103509 0.998534    | 0.000139523 0.998024
PAH8+H          | 9.70127e-05 0.998631    | 0.000130766 0.998154
rad55           | 9.39059e-05 0.998725    | 0.000126578 0.998281
PAH3+H          | 8.76338e-05 0.998812    | 0.000118124 0.998399
rad51           | 8.69318e-05 0.998899    | 0.000117178 0.998516
PAH9+H          | 8.25291e-05 0.998982    | 0.000111243 0.998628
rad9            | 7.96097e-05 0.999061    | 0.000107308 0.998735
rad70           | 7.50435e-05 0.999136    | 0.000101153 0.998836
rad21           | 7.47644e-05 0.999211    | 0.000100777 0.998937
PhCCCH3+H       | 6.91695e-05 0.999280    | 9.32355e-05 0.999030
rad71           | 6.62598e-05 0.999346    | 8.93131e-05 0.999119
rad38           | 5.73606e-05 0.999404    | 7.73182e-05 0.999197
rad28           | 4.86795e-05 0.999453    | 6.56162e-05 0.999262
PAH10+CH3       | 4.85505e-05 0.999501    | 6.54426e-05 0.999328
rad62           | 4.46484e-05 0.999546    | 6.01828e-05 0.999388
rad67           | 4.23234e-05 0.999588    | 5.70488e-05 0.999445
rad34           | 3.29448e-05 0.999621    | 4.44072e-05 0.999489
rad35           | 2.94530e-05 0.999650    | 3.97004e-05 0.999529
rad45           | 2.86681e-05 0.999679    | 3.86425e-05 0.999568
rad46           | 2.80149e-05 0.999707    | 3.77621e-05 0.999605
rad33           | 2.67929e-05 0.999734    | 3.61150e-05 0.999642
rad23           | 2.30678e-05 0.999757    | 3.10938e-05 0.999673
rad20           | 2.27405e-05 0.999780    | 3.06525e-05 0.999703
rad22           | 2.26320e-05 0.999802    | 3.05064e-05 0.999734
rad47           | 2.18154e-05 0.999824    | 2.94056e-05 0.999763
rad73           | 2.11788e-05 0.999845    | 2.85476e-05 0.999792
rad52           | 1.42134e-05 0.999860    | 1.91586e-05 0.999811
rad72           | 1.25328e-05 0.999872    | 1.68933e-05 0.999828
rad42           | 1.12954e-05 0.999883    | 1.52255e-05 0.999843
rad68syn        | 1.05807e-05 0.999894    | 1.42621e-05 0.999857
rad25           | 9.85444e-06 0.999904    | 1.32831e-05 0.999871
rad8            | 8.94918e-06 0.999913    | 1.20629e-05 0.999883
rad64           | 8.91710e-06 0.999922    | 1.20196e-05 0.999895
rad30           | 7.98636e-06 0.999930    | 1.07651e-05 0.999905
rad15           | 7.38009e-06 0.999937    | 9.94782e-06 0.999915
rad40syn        | 7.19531e-06 0.999944    | 9.69877e-06 0.999925
rad68anti       | 6.72914e-06 0.999951    | 9.07037e-06 0.999934
rad59           | 5.84913e-06 0.999957    | 7.88423e-06 0.999942
rad12           | 5.77654e-06 0.999963    | 7.78635e-06 0.999950
rad40anti       | 5.56695e-06 0.999968    | 7.50385e-06 0.999957
rad36           | 5.19309e-06 0.999973    | 6.99991e-06 0.999964
rad24           | 3.92003e-06 0.999977    | 5.28393e-06 0.999970
rad37           | 3.62255e-06 0.999981    | 4.88294e-06 0.999975
rad60syn        | 2.51334e-06 0.999983    | 3.38780e-06 0.999978
rad58           | 2.40659e-06 0.999986    | 3.24391e-06 0.999981
rad18           | 2.20428e-06 0.999988    | 2.97120e-06 0.999984
rad14           | 2.13485e-06 0.999990    | 2.87761e-06 0.999987
rad65           | 1.98410e-06 0.999992    | 2.67444e-06 0.999990
rad60anti       | 1.89230e-06 0.999994    | 2.55067e-06 0.999992

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rad26	1.57765e-06	0.999996	2.12655e-06	0.999994
rad43	9.03249e-07	0.999997	1.21752e-06	0.999996
rad10	8.38444e-07	0.999997	1.13016e-06	0.999997
rad3	5.97806e-07	0.999998	8.05797e-07	0.999998
rad61	5.22748e-07	0.999999	7.04625e-07	0.999998
rad4	4.08541e-07	0.999999	5.50684e-07	0.999999
rad41	2.57489e-07	0.999999	3.47076e-07	0.999999
rad5	2.42760e-07	0.999999	3.27223e-07	0.999999
rad2	2.20157e-07	1.000000	2.96757e-07	1.000000
rad27	5.27372e-08	1.000000	7.10861e-08	1.000000
rad1	4.97800e-08	1.000000	6.70999e-08	1.000000

10000000.0 Pa, 20.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.56740e-51	(1.00)	1.56740e-51	(1.00)
Formation of rad11	1.56740e-51	(1.000)	1.56740e-51	(1.000)
Formation of rad6	3.73945e-60	(2.39e-09)	3.73945e-60	(2.39e-09)
H-abstraction	1.53631e-76	(9.80e-26)	1.53631e-76	(9.80e-26)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.999998	0.999998	0.999998	0.999998
rad6	2.32234e-06	1.00000	2.32234e-06	1.00000
rad21	1.20053e-07	1.00000	1.20053e-07	1.00000
rad20	6.93070e-11	1.00000	6.93070e-11	1.00000
rad25	4.93615e-11	1.00000	4.93615e-11	1.00000
rad22	2.66492e-11	1.00000	2.66492e-11	1.00000
rad24	3.05497e-12	1.00000	3.05497e-12	1.00000
PhCHCCH2+H	2.83510e-12	1.00000	2.83510e-12	1.00000
rad9	1.46898e-13	1.00000	1.46898e-13	1.00000
rad45	8.82331e-14	1.00000	8.82331e-14	1.00000
rad36	1.74915e-14	1.00000	1.74915e-14	1.00000
rad13	8.74696e-15	1.00000	8.74696e-15	1.00000
rad18	3.52878e-15	1.00000	3.52878e-15	1.00000
rad7	2.55255e-15	1.00000	2.55255e-15	1.00000
Phenyl+Allene	1.80102e-15	1.00000	0.00000	1.00000
rad33	6.36772e-17	1.00000	6.36772e-17	1.00000
Indene+H	3.78962e-17	1.00000	3.78962e-17	1.00000
C2H2+PhCH2	2.95811e-17	1.00000	2.95811e-17	1.00000
rad23	6.16472e-18	1.00000	6.16472e-18	1.00000
PhCH2CCH+H	6.67648e-21	1.00000	6.67648e-21	1.00000
rad3	2.63126e-22	1.00000	2.63126e-22	1.00000
rad4	2.03630e-22	1.00000	2.03630e-22	1.00000
rad28	9.12895e-24	1.00000	9.12895e-24	1.00000
rad8	2.50468e-25	1.00000	2.50468e-25	1.00000
Benzene+2-propynyl	9.80165e-26	1.00000	9.80165e-26	1.00000
rad30	3.33896e-26	1.00000	3.33896e-26	1.00000
rad15	4.86333e-27	1.00000	4.86333e-27	1.00000
PAH7+H	4.08728e-28	1.00000	4.08728e-28	1.00000
rad38	1.36410e-28	1.00000	1.36410e-28	1.00000
rad2	4.04663e-29	1.00000	4.04663e-29	1.00000
rad31	4.00277e-29	1.00000	4.00277e-29	1.00000
rad1	1.03003e-29	1.00000	1.03003e-29	1.00000
rad46	1.88015e-30	1.00000	1.88015e-30	1.00000
PhCCH+CH3	1.95438e-31	1.00000	1.95438e-31	1.00000
rad60syn	5.64884e-32	1.00000	5.64884e-32	1.00000
PAH9+H	2.88803e-32	1.00000	2.88803e-32	1.00000
rad14	2.66867e-32	1.00000	2.66867e-32	1.00000
rad35	1.67582e-32	1.00000	1.67582e-32	1.00000
rad60anti	5.90386e-33	1.00000	5.90386e-33	1.00000
rad26	3.83963e-34	1.00000	3.83963e-34	1.00000
Ph+MeAc	2.49758e-36	1.00000	2.49758e-36	1.00000
rad10	4.16055e-37	1.00000	4.16055e-37	1.00000
rad39	1.40473e-38	1.00000	1.40473e-38	1.00000
PAH3+H	1.14403e-38	1.00000	1.14403e-38	1.00000
rad59	5.35424e-39	1.00000	5.35424e-39	1.00000
rad27	4.01336e-40	1.00000	4.01336e-40	1.00000
rad50	1.55242e-40	1.00000	1.55242e-40	1.00000
PhCCCH3+H	6.48125e-41	1.00000	6.48125e-41	1.00000
rad12	1.33327e-45	1.00000	1.33327e-45	1.00000
rad19syn	3.35969e-46	1.00000	3.35969e-46	1.00000
rad70	4.30192e-47	1.00000	4.30192e-47	1.00000
rad37	3.11261e-47	1.00000	3.11261e-47	1.00000
rad54	2.37065e-47	1.00000	2.37065e-47	1.00000
rad52	1.24022e-48	1.00000	1.24022e-48	1.00000
rad5	2.52720e-51	1.00000	2.52720e-51	1.00000
rad34	1.84687e-52	1.00000	1.84687e-52	1.00000
rad51	5.70439e-53	1.00000	5.70439e-53	1.00000

rad55	9.82462e-54	1.00000	9.82462e-54	1.00000
PhcycC3H3_A+H	2.41539e-55	1.00000	2.41539e-55	1.00000
rad58	1.08752e-55	1.00000	1.08752e-55	1.00000
PAH10+CH3	1.39587e-57	1.00000	1.39587e-57	1.00000
rad62	2.98668e-59	1.00000	2.98668e-59	1.00000
rad47	2.59138e-59	1.00000	2.59138e-59	1.00000
rad65	4.66101e-60	1.00000	4.66101e-60	1.00000
PAH1+H	8.35612e-64	1.00000	8.35612e-64	1.00000
rad43	1.91661e-64	1.00000	1.91661e-64	1.00000
rad42	1.51627e-69	1.00000	1.51627e-69	1.00000
rad41	7.52482e-76	1.00000	7.52482e-76	1.00000

10000000.0 Pa, 30.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	5.03204e-39	(1.00)	5.03204e-39	(1.00)
Formation of rad11	5.03203e-39	(1.000)	5.03203e-39	(1.000)
Formation of rad6	9.92181e-45	(1.97e-06)	9.92181e-45	(1.97e-06)
H-abstraction	3.33191e-55	(6.62e-17)	3.33191e-55	(6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.999993	0.999993	0.999993	0.999993
rad6	6.66196e-06	1.000000	6.66196e-06	1.000000
rad21	2.43099e-07	1.000000	2.43099e-07	1.000000
rad20	2.83045e-10	1.000000	2.83045e-10	1.000000
rad22	1.08872e-10	1.000000	1.08872e-10	1.000000
rad25	1.00791e-10	1.000000	1.00791e-10	1.000000
rad24	1.20820e-11	1.000000	1.20820e-11	1.000000
PhCHCCH2+H	5.86079e-12	1.000000	5.86079e-12	1.000000
rad45	7.30189e-13	1.000000	7.30189e-13	1.000000
rad9	3.05372e-13	1.000000	3.05372e-13	1.000000
rad36	1.23001e-13	1.000000	1.23001e-13	1.000000
rad13	8.71065e-14	1.000000	8.71065e-14	1.000000
rad18	2.90939e-14	1.000000	2.90939e-14	1.000000
rad7	2.64005e-14	1.000000	2.64005e-14	1.000000
Phenyl+Allene	4.28137e-15	1.000000	0.000000	1.000000
rad33	7.21682e-16	1.000000	7.21682e-16	1.000000
Indene+H	3.13776e-16	1.000000	3.13776e-16	1.000000
C2H2+PhCH2	2.46183e-16	1.000000	2.46183e-16	1.000000
Benzene+2-propynyl	6.62139e-17	1.000000	6.62139e-17	1.000000
rad23	5.27652e-17	1.000000	5.27652e-17	1.000000
PhCH2CCH+H	1.61758e-20	1.000000	1.61758e-20	1.000000
rad3	9.67216e-21	1.000000	9.67216e-21	1.000000
rad4	7.36782e-21	1.000000	7.36782e-21	1.000000
rad28	4.30048e-22	1.000000	4.30048e-22	1.000000
rad8	1.91881e-24	1.000000	1.91881e-24	1.000000
rad30	5.64225e-25	1.000000	5.64225e-25	1.000000
rad15	8.24589e-26	1.000000	8.24589e-26	1.000000
rad2	6.09925e-27	1.000000	6.09925e-27	1.000000
rad38	3.45088e-27	1.000000	3.45088e-27	1.000000
PAH7+H	2.00982e-27	1.000000	2.00982e-27	1.000000
rad31	1.48100e-27	1.000000	1.48100e-27	1.000000
rad1	1.37542e-27	1.000000	1.37542e-27	1.000000
PhCCH+CH3	4.45779e-29	1.000000	4.45779e-29	1.000000
rad46	3.04350e-29	1.000000	3.04350e-29	1.000000
rad14	4.18257e-30	1.000000	4.18257e-30	1.000000
rad60syn	1.01724e-30	1.000000	1.01724e-30	1.000000
PAH9+H	4.94367e-31	1.000000	4.94367e-31	1.000000
rad35	2.86517e-31	1.000000	2.86517e-31	1.000000
rad60anti	1.09535e-31	1.000000	1.09535e-31	1.000000
rad26	3.74931e-33	1.000000	3.74931e-33	1.000000
Ph+MeAc	2.55423e-33	1.000000	2.55423e-33	1.000000
rad10	2.12161e-34	1.000000	2.12161e-34	1.000000
rad39	7.08312e-36	1.000000	7.08312e-36	1.000000
rad27	2.74024e-37	1.000000	2.74024e-37	1.000000
PAH3+H	2.29313e-37	1.000000	2.29313e-37	1.000000
rad59	1.07163e-37	1.000000	1.07163e-37	1.000000
PhCCCH3+H	7.21639e-38	1.000000	7.21639e-38	1.000000
rad50	2.92758e-39	1.000000	2.92758e-39	1.000000
rad19syn	2.99107e-44	1.000000	2.99107e-44	1.000000
rad12	2.62307e-44	1.000000	2.62307e-44	1.000000
rad54	1.54398e-45	1.000000	1.54398e-45	1.000000
rad37	6.14179e-46	1.000000	6.14179e-46	1.000000
rad70	2.37734e-46	1.000000	2.37734e-46	1.000000
rad52	3.72798e-47	1.000000	3.72798e-47	1.000000
rad5	7.30291e-48	1.000000	7.30291e-48	1.000000
rad51	1.73698e-51	1.000000	1.73698e-51	1.000000
rad34	1.05290e-51	1.000000	1.05290e-51	1.000000

rad55	3.91702e-52	1.000000	3.91702e-52	1.000000
PhcycC3H3_A+H	9.74051e-54	1.000000	9.74051e-54	1.000000
rad58	2.46044e-54	1.000000	2.46044e-54	1.000000
PAH10+CH3	2.94228e-56	1.000000	2.94228e-56	1.000000
rad62	7.75565e-57	1.000000	7.75565e-57	1.000000
rad47	5.66609e-58	1.000000	5.66609e-58	1.000000
rad65	1.06056e-58	1.000000	1.06056e-58	1.000000
rad43	1.79190e-61	1.000000	1.79190e-61	1.000000
PAH1+H	4.27516e-62	1.000000	4.27516e-62	1.000000
rad42	1.80320e-67	1.000000	1.80320e-67	1.000000
rad41	2.55947e-73	1.000000	2.55947e-73	1.000000

10000000.0 Pa, 40.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	9.35697e-33	(1.00)	9.35697e-33	(1.00)
Formation of rad11	9.35644e-33	(1.000)	9.35644e-33	(1.000)
Formation of rad6	5.26139e-37	(5.62e-05)	5.26139e-37	(5.62e-05)
H-abstraction	1.44763e-44	(1.55e-12)	1.44763e-44	(1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.999936	0.999936	0.999936	0.999936
rad6	6.32505e-05	0.999999	6.32505e-05	0.999999
rad21	3.65116e-07	1.000000	3.65116e-07	1.000000
rad20	6.32736e-10	1.000000	6.32736e-10	1.000000
rad22	2.43462e-10	1.000000	2.43462e-10	1.000000
rad25	1.53870e-10	1.000000	1.53870e-10	1.000000
rad24	2.62445e-11	1.000000	2.62445e-11	1.000000
PhCHCCH2+H	9.17753e-12	1.000000	9.17753e-12	1.000000
rad45	2.41481e-12	1.000000	2.41481e-12	1.000000
rad13	2.11864e-12	1.000000	2.11864e-12	1.000000
Benzene+2-propynyl	1.54712e-12	1.000000	1.54712e-12	1.000000
rad7	6.58860e-13	1.000000	6.58860e-13	1.000000
rad9	4.83701e-13	1.000000	4.83701e-13	1.000000
rad36	3.70420e-13	1.000000	3.70420e-13	1.000000
rad18	9.69825e-14	1.000000	9.69825e-14	1.000000
rad33	1.90486e-14	1.000000	1.90486e-14	1.000000
Phenyl+Allene	8.71710e-15	1.000000	0.000000	1.000000
Indene+H	1.05144e-15	1.000000	1.05144e-15	1.000000
C2H2+PhCH2	8.36573e-16	1.000000	8.36573e-16	1.000000
rad23	1.82585e-16	1.000000	1.82585e-16	1.000000
rad3	4.74032e-19	1.000000	4.74032e-19	1.000000
rad4	3.50746e-19	1.000000	3.50746e-19	1.000000
PhCH2CCH+H	3.53904e-20	1.000000	3.53904e-20	1.000000
rad28	2.25599e-20	1.000000	2.25599e-20	1.000000
rad8	7.25098e-24	1.000000	7.25098e-24	1.000000
rad30	2.89396e-24	1.000000	2.89396e-24	1.000000
rad2	5.15973e-25	1.000000	5.15973e-25	1.000000
rad15	4.25899e-25	1.000000	4.25899e-25	1.000000
rad1	1.05377e-25	1.000000	1.05377e-25	1.000000
rad31	5.28800e-26	1.000000	5.28800e-26	1.000000
rad38	2.10059e-26	1.000000	2.10059e-26	1.000000
PAH7+H	6.69249e-27	1.000000	6.69249e-27	1.000000
PhCCH+CH3	4.14528e-27	1.000000	4.14528e-27	1.000000
rad14	3.49088e-28	1.000000	3.49088e-28	1.000000
rad46	1.54452e-28	1.000000	1.54452e-28	1.000000
rad60syn	5.94087e-30	1.000000	5.94087e-30	1.000000
PAH9+H	2.57937e-30	1.000000	2.57937e-30	1.000000
rad35	1.49055e-30	1.000000	1.49055e-30	1.000000
rad60anti	6.80633e-31	1.000000	6.80633e-31	1.000000
Ph+MeAc	3.26579e-31	1.000000	3.26579e-31	1.000000
rad10	3.04382e-32	1.000000	3.04382e-32	1.000000
rad26	1.82058e-32	1.000000	1.82058e-32	1.000000
rad39	7.33977e-34	1.000000	7.33977e-34	1.000000
rad27	4.18766e-35	1.000000	4.18766e-35	1.000000
PhCCCH3+H	1.26872e-35	1.000000	1.26872e-35	1.000000
PAH3+H	1.68400e-36	1.000000	1.68400e-36	1.000000
rad59	7.84439e-37	1.000000	7.84439e-37	1.000000
rad50	2.08910e-38	1.000000	2.08910e-38	1.000000
rad19syn	2.74838e-42	1.000000	2.74838e-42	1.000000
rad12	1.89389e-43	1.000000	1.89389e-43	1.000000
rad54	1.41089e-43	1.000000	1.41089e-43	1.000000
rad37	4.46594e-45	1.000000	4.46594e-45	1.000000
rad5	2.07065e-45	1.000000	2.07065e-45	1.000000
rad70	1.00199e-45	1.000000	1.00199e-45	1.000000
rad52	3.64105e-46	1.000000	3.64105e-46	1.000000
rad55	3.29820e-50	1.000000	3.29820e-50	1.000000
rad51	1.81971e-50	1.000000	1.81971e-50	1.000000

rad34	4.73796e-51	1.000000	4.73796e-51	1.000000
PhcycC3H3_A+H	8.09488e-52	1.000000	8.09488e-52	1.000000
rad58	2.34209e-53	1.000000	2.34209e-53	1.000000
rad62	1.57982e-54	1.000000	1.57982e-54	1.000000
PAH10+CH3	2.51329e-55	1.000000	2.51329e-55	1.000000
rad47	5.67253e-57	1.000000	5.67253e-57	1.000000
rad65	9.86946e-58	1.000000	9.86946e-58	1.000000
rad43	6.32675e-59	1.000000	6.32675e-59	1.000000
PAH1+H	4.35429e-60	1.000000	4.35429e-60	1.000000
rad42	3.26666e-65	1.000000	3.26666e-65	1.000000
rad41	8.10608e-71	1.000000	8.10608e-71	1.000000

10000000.0 Pa, 50.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.52690e-29 (1.00)	5.52690e-29 (1.00)
Formation of rad11	5.52459e-29 (1.000)	5.52459e-29 (1.000)
Formation of rad6	2.30840e-32 (0.000418)	2.30840e-32 (0.000418)
H-abstraction	3.35357e-38 (6.07e-10)	3.35357e-38 (6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.999572	0.999572	0.999572	0.999572
rad6	0.000427030	0.999999	0.000427030	0.999999
rad21	4.89278e-07	1.000000	4.89278e-07	1.000000
rad20	1.12222e-09	1.000000	1.12222e-09	1.000000
Benzene+2-propynyl	6.06773e-10	1.000000	6.06773e-10	1.000000
rad22	4.31947e-10	1.000000	4.31947e-10	1.000000
rad25	2.10815e-10	1.000000	2.10815e-10	1.000000
rad24	4.53396e-11	1.000000	4.53396e-11	1.000000
rad13	2.03283e-11	1.000000	2.03283e-11	1.000000
PhCHCCH2+H	1.30219e-11	1.000000	1.30219e-11	1.000000
rad7	6.34926e-12	1.000000	6.34926e-12	1.000000
rad45	5.61341e-12	1.000000	5.61341e-12	1.000000
rad36	8.07683e-13	1.000000	8.07683e-13	1.000000
rad9	6.97151e-13	1.000000	6.97151e-13	1.000000
rad18	2.28238e-13	1.000000	2.28238e-13	1.000000
rad33	1.84974e-13	1.000000	1.84974e-13	1.000000
Phenyl+Allene	1.69699e-14	1.000000	0.000000	1.000000
Indene+H	2.48944e-15	1.000000	2.48944e-15	1.000000
C2H2+PhCH2	2.02210e-15	1.000000	2.02210e-15	1.000000
rad23	4.45495e-16	1.000000	4.45495e-16	1.000000
rad3	6.32944e-18	1.000000	6.32944e-18	1.000000
rad4	4.58757e-18	1.000000	4.58757e-18	1.000000
rad28	3.04739e-19	1.000000	3.04739e-19	1.000000
PhCH2CCH+H	8.14223e-20	1.000000	8.14223e-20	1.000000
rad8	2.12306e-23	1.000000	2.12306e-23	1.000000
rad30	9.44244e-24	1.000000	9.44244e-24	1.000000
rad2	9.29882e-24	1.000000	9.29882e-24	1.000000
rad1	1.77195e-24	1.000000	1.77195e-24	1.000000
rad15	1.40319e-24	1.000000	1.40319e-24	1.000000
rad31	5.13396e-25	1.000000	5.13396e-25	1.000000
PhCCH+CH3	7.93592e-26	1.000000	7.93592e-26	1.000000
rad38	7.54737e-26	1.000000	7.54737e-26	1.000000
PAH7+H	2.25822e-26	1.000000	2.25822e-26	1.000000
rad14	6.25523e-27	1.000000	6.25523e-27	1.000000
rad46	5.08909e-28	1.000000	5.08909e-28	1.000000
rad60syn	2.31006e-29	1.000000	2.31006e-29	1.000000
PAH9+H	8.58466e-30	1.000000	8.58466e-30	1.000000
Ph+MeAc	7.87935e-30	1.000000	7.87935e-30	1.000000
rad35	4.93984e-30	1.000000	4.93984e-30	1.000000
rad60anti	2.88374e-30	1.000000	2.88374e-30	1.000000
rad10	7.74078e-31	1.000000	7.74078e-31	1.000000
rad26	7.38166e-32	1.000000	7.38166e-32	1.000000
rad39	1.52727e-32	1.000000	1.52727e-32	1.000000
rad27	1.10848e-33	1.000000	1.10848e-33	1.000000
PhCCCH3+H	3.71161e-34	1.000000	3.71161e-34	1.000000
PAH3+H	9.17093e-36	1.000000	9.17093e-36	1.000000
rad59	4.25164e-36	1.000000	4.25164e-36	1.000000
rad50	1.12529e-37	1.000000	1.12529e-37	1.000000
rad19syn	7.40418e-41	1.000000	7.40418e-41	1.000000
rad54	4.07427e-42	1.000000	4.07427e-42	1.000000
rad12	1.01612e-42	1.000000	1.01612e-42	1.000000
rad5	1.02931e-43	1.000000	1.02931e-43	1.000000
rad37	2.42205e-44	1.000000	2.42205e-44	1.000000
rad70	4.38717e-45	1.000000	4.38717e-45	1.000000
rad52	2.66567e-45	1.000000	2.66567e-45	1.000000
rad55	1.03464e-48	1.000000	1.03464e-48	1.000000
rad51	1.49345e-49	1.000000	1.49345e-49	1.000000

PhcycC3H3_A+H	2.46379e-50	1.000000	2.46379e-50	1.000000
rad34	2.27489e-50	1.000000	2.27489e-50	1.000000
rad58	1.85085e-52	1.000000	1.85085e-52	1.000000
rad62	8.33313e-53	1.000000	8.33313e-53	1.000000
PAH10+CH3	1.73034e-54	1.000000	1.73034e-54	1.000000
rad47	5.03935e-56	1.000000	5.03935e-56	1.000000
rad65	7.49025e-57	1.000000	7.49025e-57	1.000000
rad43	4.69962e-57	1.000000	4.69962e-57	1.000000
PAH1+H	1.83220e-58	1.000000	1.83220e-58	1.000000
rad42	2.08187e-63	1.000000	2.08187e-63	1.000000
rad41	7.60012e-69	1.000000	7.60012e-69	1.000000

10000000.0 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.83429e-26 (1.00)	1.83429e-26 (1.00)
Formation of rad11	1.83139e-26 (0.998)	1.83139e-26 (0.998)
Formation of rad6	2.90471e-29 (0.00158)	2.90471e-29 (0.00158)
H-abstraction	5.71259e-34 (3.11e-08)	5.71259e-34 (3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.998404	0.998404	0.998404	0.998404
rad6	0.00159530	0.999999	0.00159530	0.999999
rad21	6.17106e-07	1.000000	6.17106e-07	1.000000
Benzene+2-propynyl	3.11432e-08	1.000000	3.11432e-08	1.000000
rad20	1.76057e-09	1.000000	1.76057e-09	1.000000
rad22	6.77868e-10	1.000000	6.77868e-10	1.000000
rad25	2.72895e-10	1.000000	2.72895e-10	1.000000
rad13	9.67724e-11	1.000000	9.67724e-11	1.000000
rad24	6.93961e-11	1.000000	6.93961e-11	1.000000
rad7	3.03185e-11	1.000000	3.03185e-11	1.000000
PhCHCCH2+H	1.75667e-11	1.000000	1.75667e-11	1.000000
rad45	1.08296e-11	1.000000	1.08296e-11	1.000000
rad36	1.48510e-12	1.000000	1.48510e-12	1.000000
rad9	9.57781e-13	1.000000	9.57781e-13	1.000000
rad33	8.87690e-13	1.000000	8.87690e-13	1.000000
rad18	4.46757e-13	1.000000	4.46757e-13	1.000000
Phenyl+Allene	3.16388e-14	1.000000	0.000000	1.000000
Indene+H	4.90540e-15	1.000000	4.90540e-15	1.000000
C2H2+PhCH2	4.08664e-15	1.000000	4.08664e-15	1.000000
rad23	9.02899e-16	1.000000	9.02899e-16	1.000000
rad3	3.88548e-17	1.000000	3.88548e-17	1.000000
rad4	2.77278e-17	1.000000	2.77278e-17	1.000000
rad28	1.89604e-18	1.000000	1.89604e-18	1.000000
PhCH2CCH+H	2.05262e-19	1.000000	2.05262e-19	1.000000
rad2	7.23391e-23	1.000000	7.23391e-23	1.000000
rad8	5.47841e-23	1.000000	5.47841e-23	1.000000
rad30	2.43160e-23	1.000000	2.43160e-23	1.000000
rad1	1.30858e-23	1.000000	1.30858e-23	1.000000
rad15	3.65590e-24	1.000000	3.65590e-24	1.000000
rad31	2.41974e-24	1.000000	2.41974e-24	1.000000
PhCCH+CH3	6.63527e-25	1.000000	6.63527e-25	1.000000
rad38	2.06894e-25	1.000000	2.06894e-25	1.000000
PAH7+H	9.00082e-26	1.000000	9.00082e-26	1.000000
rad14	4.93633e-26	1.000000	4.93633e-26	1.000000
rad46	1.34158e-27	1.000000	1.34158e-27	1.000000
Ph+MeAc	8.24085e-29	1.000000	8.24085e-29	1.000000
rad60syn	7.28627e-29	1.000000	7.28627e-29	1.000000
PAH9+H	2.25976e-29	1.000000	2.25976e-29	1.000000
rad35	1.29355e-29	1.000000	1.29355e-29	1.000000
rad60anti	1.00444e-29	1.000000	1.00444e-29	1.000000
rad10	7.94208e-30	1.000000	7.94208e-30	1.000000
rad26	2.86867e-31	1.000000	2.86867e-31	1.000000
rad39	1.41020e-31	1.000000	1.41020e-31	1.000000
rad27	1.18479e-32	1.000000	1.18479e-32	1.000000
PhCCCH3+H	4.34909e-33	1.000000	4.34909e-33	1.000000
PAH3+H	4.49301e-35	1.000000	4.49301e-35	1.000000
rad59	2.06991e-35	1.000000	2.06991e-35	1.000000
rad50	5.50027e-37	1.000000	5.50027e-37	1.000000
rad19syn	1.12620e-39	1.000000	1.12620e-39	1.000000
rad54	6.78521e-41	1.000000	6.78521e-41	1.000000
rad12	4.92043e-42	1.000000	4.92043e-42	1.000000
rad5	2.23903e-42	1.000000	2.23903e-42	1.000000
rad37	1.18980e-43	1.000000	1.18980e-43	1.000000
rad70	2.12602e-44	1.000000	2.12602e-44	1.000000
rad52	1.81735e-44	1.000000	1.81735e-44	1.000000
rad55	1.92813e-47	1.000000	1.92813e-47	1.000000
rad51	1.18295e-48	1.000000	1.18295e-48	1.000000

PhcycC3H3_A+H	4.40469e-49	1.000000	4.40469e-49	1.000000
rad34	1.23147e-49	1.000000	1.23147e-49	1.000000
rad62	2.32064e-51	1.000000	2.32064e-51	1.000000
rad58	1.43954e-51	1.000000	1.43954e-51	1.000000
PAH10+CH3	1.14839e-53	1.000000	1.14839e-53	1.000000
rad47	4.66730e-55	1.000000	4.66730e-55	1.000000
rad43	1.68742e-55	1.000000	1.68742e-55	1.000000
rad65	5.56697e-56	1.000000	5.56697e-56	1.000000
PAH1+H	4.38300e-57	1.000000	4.38300e-57	1.000000
rad42	7.54911e-62	1.000000	7.54911e-62	1.000000
rad41	3.80915e-67	1.000000	3.80915e-67	1.000000

10000000.0 Pa, 70.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.17336e-24	(1.00)	1.17336e-24	(1.00)
Formation of rad11	1.16857e-24	(0.996)	1.16857e-24	(0.996)
Formation of rad6	4.79505e-27	(0.00409)	4.79505e-27	(0.00409)
H-abstraction	5.89821e-31	(5.03e-07)	5.89821e-31	(5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.995897	0.995897	0.995897	0.995897
rad6	0.00410076	0.999998	0.00410076	0.999998
rad21	7.49296e-07	0.999999	7.49296e-07	0.999999
Benzene+2-propynyl	5.02676e-07	1.000000	5.02676e-07	1.000000
rad20	2.55950e-09	1.000000	2.55950e-09	1.000000
rad22	9.85795e-10	1.000000	9.85795e-10	1.000000
rad25	3.41019e-10	1.000000	3.41019e-10	1.000000
rad13	3.03738e-10	1.000000	3.03738e-10	1.000000
rad24	9.85390e-11	1.000000	9.85390e-11	1.000000
rad7	9.54619e-11	1.000000	9.54619e-11	1.000000
PhCHCCH2+H	2.29814e-11	1.000000	2.29814e-11	1.000000
rad45	1.86208e-11	1.000000	1.86208e-11	1.000000
rad33	2.80972e-12	1.000000	2.80972e-12	1.000000
rad36	2.45791e-12	1.000000	2.45791e-12	1.000000
rad9	1.27822e-12	1.000000	1.27822e-12	1.000000
rad18	7.80432e-13	1.000000	7.80432e-13	1.000000
Phenyl+Allene	5.66889e-14	1.000000	0.000000	1.000000
Indene+H	8.63101e-15	1.000000	8.63101e-15	1.000000
C2H2+PhCH2	7.40159e-15	1.000000	7.40159e-15	1.000000
rad23	1.63127e-15	1.000000	1.63127e-15	1.000000
rad3	1.51471e-16	1.000000	1.51471e-16	1.000000
rad4	1.06770e-16	1.000000	1.06770e-16	1.000000
rad28	7.51819e-18	1.000000	7.51819e-18	1.000000
PhCH2CCH+H	5.99221e-19	1.000000	5.99221e-19	1.000000
rad2	3.46240e-22	1.000000	3.46240e-22	1.000000
rad8	1.32922e-22	1.000000	1.32922e-22	1.000000
rad1	6.01068e-23	1.000000	6.01068e-23	1.000000
rad30	5.42335e-23	1.000000	5.42335e-23	1.000000
rad15	8.26342e-24	1.000000	8.26342e-24	1.000000
rad31	7.57565e-24	1.000000	7.57565e-24	1.000000
PhCCH+CH3	3.44457e-24	1.000000	3.44457e-24	1.000000
rad38	4.82379e-25	1.000000	4.82379e-25	1.000000
PAH7+H	4.11834e-25	1.000000	4.11834e-25	1.000000
rad14	2.42696e-25	1.000000	2.42696e-25	1.000000
rad46	3.09520e-27	1.000000	3.09520e-27	1.000000
Ph+MeAc	5.35271e-28	1.000000	5.35271e-28	1.000000
rad60syn	2.02912e-28	1.000000	2.02912e-28	1.000000
PAH9+H	5.16262e-29	1.000000	5.16262e-29	1.000000
rad10	4.82788e-29	1.000000	4.82788e-29	1.000000
rad60anti	3.10476e-29	1.000000	3.10476e-29	1.000000
rad35	2.93751e-29	1.000000	2.93751e-29	1.000000
rad26	1.15325e-30	1.000000	1.15325e-30	1.000000
rad39	8.19954e-31	1.000000	8.19954e-31	1.000000
rad27	7.52393e-32	1.000000	7.52393e-32	1.000000
PhCCCH3+H	3.02045e-32	1.000000	3.02045e-32	1.000000
PAH3+H	2.18924e-34	1.000000	2.18924e-34	1.000000
rad59	1.00029e-34	1.000000	1.00029e-34	1.000000
rad50	2.67178e-36	1.000000	2.67178e-36	1.000000
rad19syn	1.36642e-38	1.000000	1.36642e-38	1.000000
rad54	9.15728e-40	1.000000	9.15728e-40	1.000000
rad5	3.13731e-41	1.000000	3.13731e-41	1.000000
rad12	2.38238e-41	1.000000	2.38238e-41	1.000000
rad37	5.87122e-43	1.000000	5.87122e-43	1.000000
rad52	1.29031e-43	1.000000	1.29031e-43	1.000000
rad70	1.20688e-43	1.000000	1.20688e-43	1.000000
rad55	2.97282e-46	1.000000	2.97282e-46	1.000000
rad51	1.01048e-47	1.000000	1.01048e-47	1.000000

PhcycC3H3_A+H	6.45350e-48	1.000000	6.45350e-48	1.000000
rad34	7.90968e-49	1.000000	7.90968e-49	1.000000
rad62	4.97121e-50	1.000000	4.97121e-50	1.000000
rad58	1.21592e-50	1.000000	1.21592e-50	1.000000
PAH10+CH3	8.15070e-53	1.000000	8.15070e-53	1.000000
rad47	4.95960e-54	1.000000	4.95960e-54	1.000000
rad43	4.39774e-54	1.000000	4.39774e-54	1.000000
rad65	4.51964e-55	1.000000	4.51964e-55	1.000000
PAH1+H	8.37220e-56	1.000000	8.37220e-56	1.000000
rad42	2.25233e-60	1.000000	2.25233e-60	1.000000
rad41	1.51943e-65	1.000000	1.51943e-65	1.000000

10000000.0 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.68112e-23 (1.00)	2.68112e-23 (1.00)
Formation of rad11	2.65890e-23 (0.992)	2.65890e-23 (0.992)
Formation of rad6	2.22189e-25 (0.00829)	2.22189e-25 (0.00829)
H-abstraction	1.05871e-28 (3.95e-06)	1.05871e-28 (3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.991691	0.991691	0.991691	0.991691
rad6	0.00830379	0.999995	0.00830379	0.999995
Benzene+2-propynyl	3.94877e-06	0.999999	3.94877e-06	0.999999
rad21	8.86352e-07	1.000000	8.86352e-07	1.000000
rad20	3.53390e-09	1.000000	3.53390e-09	1.000000
rad22	1.36152e-09	1.000000	1.36152e-09	1.000000
rad13	7.32147e-10	1.000000	7.32147e-10	1.000000
rad25	4.16154e-10	1.000000	4.16154e-10	1.000000
rad7	2.30885e-10	1.000000	2.30885e-10	1.000000
rad24	1.32994e-10	1.000000	1.32994e-10	1.000000
rad45	2.96283e-11	1.000000	2.96283e-11	1.000000
PhCHCCH2+H	2.94780e-11	1.000000	2.94780e-11	1.000000
rad33	6.83453e-12	1.000000	6.83453e-12	1.000000
rad36	3.78981e-12	1.000000	3.78981e-12	1.000000
rad9	1.67466e-12	1.000000	1.67466e-12	1.000000
rad18	1.26286e-12	1.000000	1.26286e-12	1.000000
Phenyl+Allene	9.83792e-14	1.000000	0.000000	1.000000
Indene+H	1.40752e-14	1.000000	1.40752e-14	1.000000
C2H2+PhCH2	1.24670e-14	1.000000	1.24670e-14	1.000000
rad23	2.72778e-15	1.000000	2.72778e-15	1.000000
rad3	4.42939e-16	1.000000	4.42939e-16	1.000000
rad4	3.09076e-16	1.000000	3.09076e-16	1.000000
rad28	2.24292e-17	1.000000	2.24292e-17	1.000000
PhCH2CCH+H	2.11844e-18	1.000000	2.11844e-18	1.000000
rad2	1.21991e-21	1.000000	1.21991e-21	1.000000
rad8	3.17104e-22	1.000000	3.17104e-22	1.000000
rad1	2.04739e-22	1.000000	2.04739e-22	1.000000
rad30	1.10130e-22	1.000000	1.10130e-22	1.000000
rad31	1.84317e-23	1.000000	1.84317e-23	1.000000
rad15	1.70333e-23	1.000000	1.70333e-23	1.000000
PhCCH+CH3	1.32597e-23	1.000000	1.32597e-23	1.000000
PAH7+H	1.90290e-24	1.000000	1.90290e-24	1.000000
rad38	1.01306e-24	1.000000	1.01306e-24	1.000000
rad14	8.85989e-25	1.000000	8.85989e-25	1.000000
rad46	6.56192e-27	1.000000	6.56192e-27	1.000000
Ph+MeAc	2.58156e-27	1.000000	2.58156e-27	1.000000
rad60syn	5.23219e-28	1.000000	5.23219e-28	1.000000
rad10	2.11105e-28	1.000000	2.11105e-28	1.000000
PAH9+H	1.07645e-28	1.000000	1.07645e-28	1.000000
rad60anti	8.88170e-29	1.000000	8.88170e-29	1.000000
rad35	6.08428e-29	1.000000	6.08428e-29	1.000000
rad26	5.07360e-30	1.000000	5.07360e-30	1.000000
rad39	3.57686e-30	1.000000	3.57686e-30	1.000000
rad27	3.44846e-31	1.000000	3.44846e-31	1.000000
PhCCCH3+H	1.51423e-31	1.000000	1.51423e-31	1.000000
PAH3+H	1.14138e-33	1.000000	1.14138e-33	1.000000
rad59	5.15476e-34	1.000000	5.15476e-34	1.000000
rad50	1.36824e-35	1.000000	1.36824e-35	1.000000
rad19syn	1.67042e-37	1.000000	1.67042e-37	1.000000
rad54	1.26413e-38	1.000000	1.26413e-38	1.000000
rad5	3.39928e-40	1.000000	3.39928e-40	1.000000
rad12	1.24253e-40	1.000000	1.24253e-40	1.000000
rad37	3.14721e-42	1.000000	3.14721e-42	1.000000
rad52	1.04642e-42	1.000000	1.04642e-42	1.000000
rad70	8.83476e-43	1.000000	8.83476e-43	1.000000
rad55	4.80746e-45	1.000000	4.80746e-45	1.000000
rad51	1.03005e-46	1.000000	1.03005e-46	1.000000

PhcycC3H3_A+H	9.86535e-47	1.000000	9.86535e-47	1.000000
rad34	6.61460e-48	1.000000	6.61460e-48	1.000000
rad62	1.03654e-48	1.000000	1.03654e-48	1.000000
rad58	1.24220e-49	1.000000	1.24220e-49	1.000000
PAH10+CH3	6.89368e-52	1.000000	6.89368e-52	1.000000
rad43	1.05649e-52	1.000000	1.05649e-52	1.000000
rad47	6.71554e-53	1.000000	6.71554e-53	1.000000
rad65	4.49381e-54	1.000000	4.49381e-54	1.000000
PAH1+H	1.63380e-54	1.000000	1.63380e-54	1.000000
rad42	7.12377e-59	1.000000	7.12377e-59	1.000000
rad41	6.25465e-64	1.000000	6.25465e-64	1.000000

10000000.0 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.08379e-22 (1.00)	3.08379e-22 (1.00)
Formation of rad11	3.03962e-22 (0.986)	3.03962e-22 (0.986)
Formation of rad6	4.41076e-24 (0.0143)	4.41076e-24 (0.0143)
H-abstraction	5.92916e-27 (1.92e-05)	5.92916e-27 (1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.985657	0.985657	0.985657	0.985657
rad6	0.0143222	0.999979	0.0143222	0.999979
Benzene+2-propynyl	1.92269e-05	0.999999	1.92269e-05	0.999999
rad21	1.02893e-06	1.000000	1.02893e-06	1.000000
rad20	4.70331e-09	1.000000	4.70331e-09	1.000000
rad22	1.81266e-09	1.000000	1.81266e-09	1.000000
rad13	1.47732e-09	1.000000	1.47732e-09	1.000000
rad25	4.99545e-10	1.000000	4.99545e-10	1.000000
rad7	4.67555e-10	1.000000	4.67555e-10	1.000000
rad24	1.73133e-10	1.000000	1.73133e-10	1.000000
rad45	4.46236e-11	1.000000	4.46236e-11	1.000000
PhCHCCH2+H	3.73414e-11	1.000000	3.73414e-11	1.000000
rad33	1.39254e-11	1.000000	1.39254e-11	1.000000
rad36	5.55801e-12	1.000000	5.55801e-12	1.000000
rad9	2.16915e-12	1.000000	2.16915e-12	1.000000
rad18	1.93599e-12	1.000000	1.93599e-12	1.000000
Phenyl+Allene	1.66585e-13	1.000000	0.000000	1.000000
Indene+H	2.17602e-14	1.000000	2.17602e-14	1.000000
C2H2+PhCH2	1.99773e-14	1.000000	1.99773e-14	1.000000
rad23	4.31927e-15	1.000000	4.31927e-15	1.000000
rad3	1.06703e-15	1.000000	1.06703e-15	1.000000
rad4	7.38215e-16	1.000000	7.38215e-16	1.000000
rad28	5.52624e-17	1.000000	5.52624e-17	1.000000
PhCH2CCH+H	8.51879e-18	1.000000	8.51879e-18	1.000000
rad2	3.49893e-21	1.000000	3.49893e-21	1.000000
rad8	7.63700e-22	1.000000	7.63700e-22	1.000000
rad1	5.70766e-22	1.000000	5.70766e-22	1.000000
rad30	2.09979e-22	1.000000	2.09979e-22	1.000000
PhCCH+CH3	4.18296e-23	1.000000	4.18296e-23	1.000000
rad31	3.79962e-23	1.000000	3.79962e-23	1.000000
rad15	3.30253e-23	1.000000	3.30253e-23	1.000000
PAH7+H	8.26484e-24	1.000000	8.26484e-24	1.000000
rad14	2.65091e-24	1.000000	2.65091e-24	1.000000
rad38	1.98424e-24	1.000000	1.98424e-24	1.000000
rad46	1.31790e-26	1.000000	1.31790e-26	1.000000
Ph+MeAc	1.02203e-26	1.000000	1.02203e-26	1.000000
rad60syn	1.28712e-27	1.000000	1.28712e-27	1.000000
rad10	7.40765e-28	1.000000	7.40765e-28	1.000000
rad60anti	2.41411e-28	1.000000	2.41411e-28	1.000000
PAH9+H	2.11378e-28	1.000000	2.11378e-28	1.000000
rad35	1.18647e-28	1.000000	1.18647e-28	1.000000
rad26	2.48391e-29	1.000000	2.48391e-29	1.000000
rad39	1.29210e-29	1.000000	1.29210e-29	1.000000
rad27	1.27316e-30	1.000000	1.27316e-30	1.000000
PhCCCH3+H	6.12679e-31	1.000000	6.12679e-31	1.000000
PAH3+H	6.63414e-33	1.000000	6.63414e-33	1.000000
rad59	2.94284e-33	1.000000	2.94284e-33	1.000000
rad50	7.56687e-35	1.000000	7.56687e-35	1.000000
rad19syn	2.54563e-36	1.000000	2.54563e-36	1.000000
rad54	2.24107e-37	1.000000	2.24107e-37	1.000000
rad5	3.10709e-39	1.000000	3.10709e-39	1.000000
rad12	7.24221e-40	1.000000	7.24221e-40	1.000000
rad37	1.91813e-41	1.000000	1.91813e-41	1.000000
rad52	1.05241e-41	1.000000	1.05241e-41	1.000000
rad70	9.88213e-42	1.000000	9.88213e-42	1.000000
rad55	1.05061e-43	1.000000	1.05061e-43	1.000000
PhcycC3H3_A+H	2.05620e-45	1.000000	2.05620e-45	1.000000

rad51	1.39527e-45	1.000000	1.39527e-45	1.000000
rad34	8.53910e-47	1.000000	8.53910e-47	1.000000
rad62	2.54020e-47	1.000000	2.54020e-47	1.000000
rad58	1.78061e-48	1.000000	1.78061e-48	1.000000
PAH10+CH3	7.97930e-51	1.000000	7.97930e-51	1.000000
rad43	2.77313e-51	1.000000	2.77313e-51	1.000000
rad47	1.32073e-51	1.000000	1.32073e-51	1.000000
rad65	6.30515e-53	1.000000	6.30515e-53	1.000000
PAH1+H	4.23484e-53	1.000000	4.23484e-53	1.000000
rad42	3.00322e-57	1.000000	3.00322e-57	1.000000
rad41	3.30710e-62	1.000000	3.30710e-62	1.000000

10000000.0 Pa, 100.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.19347e-21	(1.00)	2.19347e-21	(1.00)
Formation of rad11	2.14498e-21	(0.978)	2.14498e-21	(0.978)
Formation of rad6	4.83503e-23	(0.0220)	4.83503e-23	(0.0220)
H-abstraction	1.47101e-25	(6.71e-05)	1.47101e-25	(6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.977867	0.977867	0.977867	0.977867
rad6	0.0220646	0.999932	0.0220646	0.999932
Benzene+2-propynyl	6.70630e-05	0.999999	6.70630e-05	0.999999
rad21	1.17794e-06	1.00000	1.17794e-06	1.00000
rad20	6.09364e-09	1.00000	6.09364e-09	1.00000
rad13	2.62929e-09	1.00000	2.62929e-09	1.00000
rad22	2.34926e-09	1.00000	2.34926e-09	1.00000
rad7	8.35301e-10	1.00000	8.35301e-10	1.00000
rad25	5.92814e-10	1.00000	5.92814e-10	1.00000
rad24	2.19501e-10	1.00000	2.19501e-10	1.00000
rad45	6.45672e-11	1.00000	6.45672e-11	1.00000
PhCHCCH2+H	4.69554e-11	1.00000	4.69554e-11	1.00000
rad33	2.50406e-11	1.00000	2.50406e-11	1.00000
rad36	7.85945e-12	1.00000	7.85945e-12	1.00000
rad18	2.85375e-12	1.00000	2.85375e-12	1.00000
rad9	2.79167e-12	1.00000	2.79167e-12	1.00000
Phenyl+Allene	2.76744e-13	1.00000	0.00000	1.00000
Indene+H	3.23720e-14	1.00000	3.23720e-14	1.00000
C2H2+PhCH2	3.09197e-14	1.00000	3.09197e-14	1.00000
rad23	6.57515e-15	1.00000	6.57515e-15	1.00000
rad3	2.24181e-15	1.00000	2.24181e-15	1.00000
rad4	1.53962e-15	1.00000	1.53962e-15	1.00000
rad28	1.19021e-16	1.00000	1.19021e-16	1.00000
PhCH2CCH+H	3.41391e-17	1.00000	3.41391e-17	1.00000
rad2	8.68821e-21	1.00000	8.68821e-21	1.00000
rad8	1.86597e-21	1.00000	1.86597e-21	1.00000
rad1	1.38311e-21	1.00000	1.38311e-21	1.00000
rad30	3.83771e-22	1.00000	3.83771e-22	1.00000
PhCCH+CH3	1.15007e-22	1.00000	1.15007e-22	1.00000
rad31	6.98870e-23	1.00000	6.98870e-23	1.00000
rad15	6.14965e-23	1.00000	6.14965e-23	1.00000
PAH7+H	3.32759e-23	1.00000	3.32759e-23	1.00000
rad14	6.90740e-24	1.00000	6.90740e-24	1.00000
rad38	3.70908e-24	1.00000	3.70908e-24	1.00000
Ph+MeAc	3.53354e-26	1.00000	3.53354e-26	1.00000
rad46	2.55989e-26	1.00000	2.55989e-26	1.00000
rad60syn	3.07997e-27	1.00000	3.07997e-27	1.00000
rad10	2.23169e-27	1.00000	2.23169e-27	1.00000
rad60anti	6.34342e-28	1.00000	6.34342e-28	1.00000
PAH9+H	3.99357e-28	1.00000	3.99357e-28	1.00000
rad35	2.22744e-28	1.00000	2.22744e-28	1.00000
rad26	1.29153e-28	1.00000	1.29153e-28	1.00000
rad39	4.10894e-29	1.00000	4.10894e-29	1.00000
rad27	4.05297e-30	1.00000	4.05297e-30	1.00000
PhCCCH3+H	2.14467e-30	1.00000	2.14467e-30	1.00000
PAH3+H	4.22506e-32	1.00000	4.22506e-32	1.00000
rad59	1.82376e-32	1.00000	1.82376e-32	1.00000
rad50	4.41792e-34	1.00000	4.41792e-34	1.00000
rad19syn	5.26999e-35	1.00000	5.26999e-35	1.00000
rad54	6.01826e-36	1.00000	6.01826e-36	1.00000
rad5	2.48939e-38	1.00000	2.48939e-38	1.00000
rad12	4.59720e-39	1.00000	4.59720e-39	1.00000
rad70	2.10380e-40	1.00000	2.10380e-40	1.00000
rad52	1.35600e-40	1.00000	1.35600e-40	1.00000
rad37	1.30891e-40	1.00000	1.30891e-40	1.00000
rad55	4.03590e-42	1.00000	4.03590e-42	1.00000
PhcycC3H3_A+H	7.84668e-44	1.00000	7.84668e-44	1.00000

rad51	2.70983e-44	1.00000	2.70983e-44	1.00000
rad34	2.13854e-45	1.00000	2.13854e-45	1.00000
rad62	8.22712e-46	1.00000	8.22712e-46	1.00000
rad58	4.21900e-47	1.00000	4.21900e-47	1.00000
PAH10+CH3	1.44185e-49	1.00000	1.44185e-49	1.00000
rad43	8.65548e-50	1.00000	8.65548e-50	1.00000
rad47	4.22953e-50	1.00000	4.22953e-50	1.00000
PAH1+H	1.93381e-51	1.00000	1.93381e-51	1.00000
rad65	1.42191e-51	1.00000	1.42191e-51	1.00000
rad42	2.02058e-55	1.00000	2.02058e-55	1.00000
rad41	2.63393e-60	1.00000	2.63393e-60	1.00000

10000000.0 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06527e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44008e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.968513	0.968513	0.968513	0.968513
rad6	0.0313016	0.999815	0.0313016	0.999815
Benzene+2-propynyl	0.000183695	0.999998	0.000183695	0.999998
rad21	1.33461e-06	1.000000	1.33461e-06	1.000000
rad20	7.73883e-09	1.000000	7.73883e-09	1.000000
rad13	4.26888e-09	1.000000	4.26888e-09	1.000000
rad22	2.98452e-09	1.000000	2.98452e-09	1.000000
rad7	1.36161e-09	1.000000	1.36161e-09	1.000000
rad25	6.98035e-10	1.000000	6.98035e-10	1.000000
rad24	2.72858e-10	1.000000	2.72858e-10	1.000000
rad45	9.06820e-11	1.000000	9.06820e-11	1.000000
PhCHCCH2+H	5.88323e-11	1.000000	5.88323e-11	1.000000
rad33	4.10992e-11	1.000000	4.10992e-11	1.000000
rad36	1.08184e-11	1.000000	1.08184e-11	1.000000
rad18	4.08689e-12	1.000000	4.08689e-12	1.000000
rad9	3.58288e-12	1.000000	3.58288e-12	1.000000
Phenyl+Allene	4.52831e-13	1.000000	0.000000	1.000000
Indene+H	4.68309e-14	1.000000	4.68309e-14	1.000000
C2H2+PhCH2	4.67222e-14	1.000000	4.67222e-14	1.000000
rad23	9.72591e-15	1.000000	9.72591e-15	1.000000
rad3	4.26284e-15	1.000000	4.26284e-15	1.000000
rad4	2.90887e-15	1.000000	2.90887e-15	1.000000
rad28	2.32499e-16	1.000000	2.32499e-16	1.000000
PhCH2CCH+H	1.25356e-16	1.000000	1.25356e-16	1.000000
rad2	1.94448e-20	1.000000	1.94448e-20	1.000000
rad8	4.57964e-21	1.000000	4.57964e-21	1.000000
rad1	3.03048e-21	1.000000	3.03048e-21	1.000000
rad30	6.82311e-22	1.000000	6.82311e-22	1.000000
PhCCH+CH3	2.87027e-22	1.000000	2.87027e-22	1.000000
PAH7+H	1.24322e-22	1.000000	1.24322e-22	1.000000
rad31	1.18552e-22	1.000000	1.18552e-22	1.000000
rad15	1.11622e-22	1.000000	1.11622e-22	1.000000
rad14	1.63133e-23	1.000000	1.63133e-23	1.000000
rad38	6.72457e-24	1.000000	6.72457e-24	1.000000
Ph+MeAc	1.11125e-25	1.000000	1.11125e-25	1.000000
rad46	4.88002e-26	1.000000	4.88002e-26	1.000000
rad60syn	7.26117e-27	1.000000	7.26117e-27	1.000000
rad10	6.03665e-27	1.000000	6.03665e-27	1.000000
rad60anti	1.63023e-27	1.000000	1.63023e-27	1.000000
PAH9+H	7.37272e-28	1.000000	7.37272e-28	1.000000
rad26	6.59949e-28	1.000000	6.59949e-28	1.000000
rad35	4.09688e-28	1.000000	4.09688e-28	1.000000
rad39	1.19791e-28	1.000000	1.19791e-28	1.000000
rad27	1.16406e-29	1.000000	1.16406e-29	1.000000
PhCCCH3+H	6.80367e-30	1.000000	6.80367e-30	1.000000
PAH3+H	2.75393e-31	1.000000	2.75393e-31	1.000000
rad59	1.14638e-31	1.000000	1.14638e-31	1.000000
rad50	2.58332e-33	1.000000	2.58332e-33	1.000000
rad19syn	1.19545e-33	1.000000	1.19545e-33	1.000000
rad54	2.04188e-34	1.000000	2.04188e-34	1.000000
rad5	1.78015e-37	1.000000	1.78015e-37	1.000000
rad12	2.97490e-38	1.000000	2.97490e-38	1.000000
rad70	8.88825e-39	1.000000	8.88825e-39	1.000000
rad52	2.06954e-39	1.000000	2.06954e-39	1.000000
rad37	9.38140e-40	1.000000	9.38140e-40	1.000000
rad55	2.72807e-40	1.000000	2.72807e-40	1.000000
PhcycC3H3_A+H	5.57034e-42	1.000000	5.57034e-42	1.000000

rad51	7.20795e-43	1.000000	7.20795e-43	1.000000
rad34	1.09930e-43	1.000000	1.09930e-43	1.000000
rad62	3.27227e-44	1.000000	3.27227e-44	1.000000
rad58	1.69793e-45	1.000000	1.69793e-45	1.000000
PAH10+CH3	3.96798e-48	1.000000	3.96798e-48	1.000000
rad43	3.01189e-48	1.000000	3.01189e-48	1.000000
rad47	2.15793e-48	1.000000	2.15793e-48	1.000000
PAH1+H	1.60611e-49	1.000000	1.60611e-49	1.000000
rad65	5.10085e-50	1.000000	5.10085e-50	1.000000
rad42	2.10262e-53	1.000000	2.10262e-53	1.000000
rad41	3.05031e-58	1.000000	3.05031e-58	1.000000

10000000.0 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.957843	0.957843	0.957843	0.957843
rad6	0.0417352	0.999579	0.0417352	0.999579
Benzene+2-propynyl	0.000420064	0.999999	0.000420064	0.999999
rad21	1.50049e-06	1.00000	1.50049e-06	1.00000
rad20	9.68274e-09	1.00000	9.68274e-09	1.00000
rad13	6.46818e-09	1.00000	6.46818e-09	1.00000
rad22	3.73549e-09	1.00000	3.73549e-09	1.00000
rad7	2.07181e-09	1.00000	2.07181e-09	1.00000
rad25	8.17796e-10	1.00000	8.17796e-10	1.00000
rad24	3.34202e-10	1.00000	3.34202e-10	1.00000
rad45	1.24549e-10	1.00000	1.24549e-10	1.00000
PhCHCCH2+H	7.36532e-11	1.00000	7.36532e-11	1.00000
rad33	6.29878e-11	1.00000	6.29878e-11	1.00000
rad36	1.45959e-11	1.00000	1.45959e-11	1.00000
rad18	5.72953e-12	1.00000	5.72953e-12	1.00000
rad9	4.59764e-12	1.00000	4.59764e-12	1.00000
Phenyl+Allene	7.31908e-13	1.00000	0.00000	1.00000
C2H2+PhCH2	6.94757e-14	1.00000	6.94757e-14	1.00000
Indene+H	6.63886e-14	1.00000	6.63886e-14	1.00000
rad23	1.40894e-14	1.00000	1.40894e-14	1.00000
rad3	7.52401e-15	1.00000	7.52401e-15	1.00000
rad4	5.10520e-15	1.00000	5.10520e-15	1.00000
rad28	4.22469e-16	1.00000	4.22469e-16	1.00000
PhCH2CCH+H	4.11908e-16	1.00000	4.11908e-16	1.00000
rad2	4.03300e-20	1.00000	4.03300e-20	1.00000
rad8	1.11416e-20	1.00000	1.11416e-20	1.00000
rad1	6.16920e-21	1.00000	6.16920e-21	1.00000
rad30	1.19298e-21	1.00000	1.19298e-21	1.00000
PhCCH+CH3	6.68887e-22	1.00000	6.68887e-22	1.00000
PAH7+H	4.31715e-22	1.00000	4.31715e-22	1.00000
rad15	1.99669e-22	1.00000	1.99669e-22	1.00000
rad31	1.89661e-22	1.00000	1.89661e-22	1.00000
rad14	3.59020e-23	1.00000	3.59020e-23	1.00000
rad38	1.19655e-23	1.00000	1.19655e-23	1.00000
Ph+MeAc	3.26857e-25	1.00000	3.26857e-25	1.00000
rad46	9.22895e-26	1.00000	9.22895e-26	1.00000
rad60syn	1.70066e-26	1.00000	1.70066e-26	1.00000
rad10	1.51277e-26	1.00000	1.51277e-26	1.00000
rad60anti	4.13032e-27	1.00000	4.13032e-27	1.00000
rad26	3.13434e-27	1.00000	3.13434e-27	1.00000
PAH9+H	1.34571e-27	1.00000	1.34571e-27	1.00000
rad35	7.49723e-28	1.00000	7.49723e-28	1.00000
rad39	3.29254e-28	1.00000	3.29254e-28	1.00000
rad27	3.11393e-29	1.00000	3.11393e-29	1.00000
PhCCCH3+H	2.02087e-29	1.00000	2.02087e-29	1.00000
PAH3+H	1.71590e-30	1.00000	1.71590e-30	1.00000
rad59	6.84896e-31	1.00000	6.84896e-31	1.00000
rad19syn	2.28674e-32	1.00000	2.28674e-32	1.00000
rad50	1.44307e-32	1.00000	1.44307e-32	1.00000
rad54	6.12692e-33	1.00000	6.12692e-33	1.00000
rad5	1.15086e-36	1.00000	1.15086e-36	1.00000
rad70	5.92528e-37	1.00000	5.92528e-37	1.00000
rad12	1.85790e-37	1.00000	1.85790e-37	1.00000
rad52	3.20087e-38	1.00000	3.20087e-38	1.00000
rad55	2.34217e-38	1.00000	2.34217e-38	1.00000
rad37	6.64031e-39	1.00000	6.64031e-39	1.00000
PhcycC3H3_A+H	5.23784e-40	1.00000	5.23784e-40	1.00000

rad51	2.16990e-41	1.00000	2.16990e-41	1.00000
rad34	9.41387e-42	1.00000	9.41387e-42	1.00000
rad62	1.26936e-42	1.00000	1.26936e-42	1.00000
rad58	9.64435e-44	1.00000	9.64435e-44	1.00000
rad47	1.46804e-46	1.00000	1.46804e-46	1.00000
PAH10+CH3	1.29758e-46	1.00000	1.29758e-46	1.00000
rad43	9.97878e-47	1.00000	9.97878e-47	1.00000
PAH1+H	1.83271e-47	1.00000	1.83271e-47	1.00000
rad65	2.40120e-48	1.00000	2.40120e-48	1.00000
rad42	2.69085e-51	1.00000	2.69085e-51	1.00000
rad41	4.14540e-56	1.00000	4.14540e-56	1.00000

10000000.0 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.33719e-19 (1.00)	1.33719e-19 (1.00)
Formation of rad11	1.26517e-19 (0.946)	1.26517e-19 (0.946)
Formation of rad6	7.08974e-21 (0.0530)	7.08974e-21 (0.0530)
H-abstraction	1.11864e-22 (0.000837)	1.11864e-22 (0.000837)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.946112	0.946112	0.946112	0.946112
rad6	0.0530500	0.999162	0.0530500	0.999162
Benzene+2-propynyl	0.000836559	0.999998	0.000836559	0.999998
rad21	1.67739e-06	1.00000	1.67739e-06	1.00000
rad20	1.19815e-08	1.00000	1.19815e-08	1.00000
rad13	9.29372e-09	1.00000	9.29372e-09	1.00000
rad22	4.62395e-09	1.00000	4.62395e-09	1.00000
rad7	2.99009e-09	1.00000	2.99009e-09	1.00000
rad25	9.55307e-10	1.00000	9.55307e-10	1.00000
rad24	4.04797e-10	1.00000	4.04797e-10	1.00000
rad45	1.68223e-10	1.00000	1.68223e-10	1.00000
PhCHCCH2+H	9.23236e-11	1.00000	9.23236e-11	1.00000
rad33	9.15930e-11	1.00000	9.15930e-11	1.00000
rad36	1.94018e-11	1.00000	1.94018e-11	1.00000
rad18	7.90810e-12	1.00000	7.90810e-12	1.00000
rad9	5.91003e-12	1.00000	5.91003e-12	1.00000
Phenyl+Allene	1.17110e-12	1.00000	0.00000	1.00000
C2H2+PhCH2	1.02276e-13	1.00000	1.02276e-13	1.00000
Indene+H	9.27671e-14	1.00000	9.27671e-14	1.00000
rad23	2.01087e-14	1.00000	2.01087e-14	1.00000
rad3	1.25502e-14	1.00000	1.25502e-14	1.00000
rad4	8.47274e-15	1.00000	8.47274e-15	1.00000
PhCH2CCH+H	1.21720e-15	1.00000	1.21720e-15	1.00000
rad28	7.27030e-16	1.00000	7.27030e-16	1.00000
rad2	7.90831e-20	1.00000	7.90831e-20	1.00000
rad8	2.66135e-20	1.00000	2.66135e-20	1.00000
rad1	1.18986e-20	1.00000	1.18986e-20	1.00000
rad30	2.06838e-21	1.00000	2.06838e-21	1.00000
PhCCH+CH3	1.48545e-21	1.00000	1.48545e-21	1.00000
PAH7+H	1.39741e-21	1.00000	1.39741e-21	1.00000
rad15	3.54927e-22	1.00000	3.54927e-22	1.00000
rad31	2.90707e-22	1.00000	2.90707e-22	1.00000
rad14	7.51177e-23	1.00000	7.51177e-23	1.00000
rad38	2.10828e-23	1.00000	2.10828e-23	1.00000
Ph+MeAc	9.16749e-25	1.00000	9.16749e-25	1.00000
rad46	1.74526e-25	1.00000	1.74526e-25	1.00000
rad60syn	3.97819e-26	1.00000	3.97819e-26	1.00000
rad10	3.59312e-26	1.00000	3.59312e-26	1.00000
rad26	1.35408e-26	1.00000	1.35408e-26	1.00000
rad60anti	1.03718e-26	1.00000	1.03718e-26	1.00000
PAH9+H	2.45087e-27	1.00000	2.45087e-27	1.00000
rad35	1.38600e-27	1.00000	1.38600e-27	1.00000
rad39	8.70136e-28	1.00000	8.70136e-28	1.00000
rad27	7.94037e-29	1.00000	7.94037e-29	1.00000
PhCCCH3+H	5.75331e-29	1.00000	5.75331e-29	1.00000
PAH3+H	9.84312e-30	1.00000	9.84312e-30	1.00000
rad59	3.75851e-30	1.00000	3.75851e-30	1.00000
rad19syn	3.33244e-31	1.00000	3.33244e-31	1.00000
rad54	1.36514e-31	1.00000	1.36514e-31	1.00000
rad50	7.51118e-32	1.00000	7.51118e-32	1.00000
rad70	4.52720e-35	1.00000	4.52720e-35	1.00000
rad5	6.80925e-36	1.00000	6.80925e-36	1.00000
rad55	1.39831e-36	1.00000	1.39831e-36	1.00000
rad12	1.09188e-36	1.00000	1.09188e-36	1.00000
rad52	4.42829e-37	1.00000	4.42829e-37	1.00000
rad37	4.48418e-38	1.00000	4.48418e-38	1.00000
PhcycC3H3_A+H	3.51948e-38	1.00000	3.51948e-38	1.00000

rad34	1.03270e-39	1.00000	1.03270e-39	1.00000
rad51	5.95438e-40	1.00000	5.95438e-40	1.00000
rad62	4.01147e-41	1.00000	4.01147e-41	1.00000
rad58	5.87546e-42	1.00000	5.87546e-42	1.00000
rad47	1.06827e-44	1.00000	1.06827e-44	1.00000
PAH10+CH3	3.87636e-45	1.00000	3.87636e-45	1.00000
rad43	2.78756e-45	1.00000	2.78756e-45	1.00000
PAH1+H	1.93000e-45	1.00000	1.93000e-45	1.00000
rad65	1.11741e-46	1.00000	1.11741e-46	1.00000
rad42	3.13919e-49	1.00000	3.13919e-49	1.00000
rad41	5.01951e-54	1.00000	5.01951e-54	1.00000

10000000.0 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.59582e-19 (1.00)	3.59582e-19 (1.00)
Formation of rad11	3.35703e-19 (0.934)	3.35703e-19 (0.934)
Formation of rad6	2.33415e-20 (0.0649)	2.33415e-20 (0.0649)
H-abstraction	5.37685e-22 (0.00150)	5.37685e-22 (0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.933557	0.933557	0.933557	0.933557
rad6	0.0649460	0.998503	0.0649460	0.998503
Benzene+2-propynyl	0.00149531	0.999998	0.00149531	0.999998
rad21	1.86744e-06	1.00000	1.86744e-06	1.00000
rad20	1.47061e-08	1.00000	1.47061e-08	1.00000
rad13	1.28106e-08	1.00000	1.28106e-08	1.00000
rad22	5.67757e-09	1.00000	5.67757e-09	1.00000
rad7	4.14091e-09	1.00000	4.14091e-09	1.00000
rad25	1.11452e-09	1.00000	1.11452e-09	1.00000
rad24	4.86224e-10	1.00000	4.86224e-10	1.00000
rad45	2.24401e-10	1.00000	2.24401e-10	1.00000
rad33	1.27848e-10	1.00000	1.27848e-10	1.00000
PhCHCCH2+H	1.16049e-10	1.00000	1.16049e-10	1.00000
rad36	2.55106e-11	1.00000	2.55106e-11	1.00000
rad18	1.07937e-11	1.00000	1.07937e-11	1.00000
rad9	7.62029e-12	1.00000	7.62029e-12	1.00000
Phenyl+Allene	1.85814e-12	1.00000	0.00000	1.00000
C2H2+PhCH2	1.49755e-13	1.00000	1.49755e-13	1.00000
Indene+H	1.28358e-13	1.00000	1.28358e-13	1.00000
rad23	2.84073e-14	1.00000	2.84073e-14	1.00000
rad3	2.00458e-14	1.00000	2.00458e-14	1.00000
rad4	1.34720e-14	1.00000	1.34720e-14	1.00000
PhCH2CCH+H	3.27873e-15	1.00000	3.27873e-15	1.00000
rad28	1.20068e-15	1.00000	1.20068e-15	1.00000
rad2	1.48803e-19	1.00000	1.48803e-19	1.00000
rad8	6.21228e-20	1.00000	6.21228e-20	1.00000
rad1	2.20608e-20	1.00000	2.20608e-20	1.00000
PAH7+H	4.23815e-21	1.00000	4.23815e-21	1.00000
rad30	3.57886e-21	1.00000	3.57886e-21	1.00000
PhCCH+CH3	3.19105e-21	1.00000	3.19105e-21	1.00000
rad15	6.30928e-22	1.00000	6.30928e-22	1.00000
rad31	4.31856e-22	1.00000	4.31856e-22	1.00000
rad14	1.51652e-22	1.00000	1.51652e-22	1.00000
rad38	3.70353e-23	1.00000	3.70353e-23	1.00000
Ph+MeAc	2.48488e-24	1.00000	2.48488e-24	1.00000
rad46	3.31922e-25	1.00000	3.31922e-25	1.00000
rad60syn	9.32325e-26	1.00000	9.32325e-26	1.00000
rad10	8.22799e-26	1.00000	8.22799e-26	1.00000
rad26	5.31986e-26	1.00000	5.31986e-26	1.00000
rad60anti	2.59025e-26	1.00000	2.59025e-26	1.00000
PAH9+H	4.48605e-27	1.00000	4.48605e-27	1.00000
rad35	2.62980e-27	1.00000	2.62980e-27	1.00000
rad39	2.24143e-27	1.00000	2.24143e-27	1.00000
rad27	1.96343e-28	1.00000	1.96343e-28	1.00000
PhCCCH3+H	1.59660e-28	1.00000	1.59660e-28	1.00000
PAH3+H	5.14368e-29	1.00000	5.14368e-29	1.00000
rad59	1.87878e-29	1.00000	1.87878e-29	1.00000
rad19syn	3.69300e-30	1.00000	3.69300e-30	1.00000
rad54	2.20679e-30	1.00000	2.20679e-30	1.00000
rad50	3.61906e-31	1.00000	3.61906e-31	1.00000
rad70	2.14023e-33	1.00000	2.14023e-33	1.00000
rad55	5.47693e-35	1.00000	5.47693e-35	1.00000
rad5	3.73092e-35	1.00000	3.73092e-35	1.00000
rad12	6.00769e-36	1.00000	6.00769e-36	1.00000
rad52	5.18156e-36	1.00000	5.18156e-36	1.00000
PhcycC3H3_A+H	1.53805e-36	1.00000	1.53805e-36	1.00000
rad37	2.85176e-37	1.00000	2.85176e-37	1.00000

rad34	1.09590e-37	1.00000	1.09590e-37	1.00000
rad51	1.32778e-38	1.00000	1.32778e-38	1.00000
rad62	9.75351e-40	1.00000	9.75351e-40	1.00000
rad58	2.84431e-40	1.00000	2.84431e-40	1.00000
rad47	6.72558e-43	1.00000	6.72558e-43	1.00000
PAH1+H	1.80385e-43	1.00000	1.80385e-43	1.00000
PAH10+CH3	9.39120e-44	1.00000	9.39120e-44	1.00000
rad43	6.29255e-44	1.00000	6.29255e-44	1.00000
rad65	4.03496e-45	1.00000	4.03496e-45	1.00000
rad42	3.57805e-47	1.00000	3.57805e-47	1.00000
rad41	5.55398e-52	1.00000	5.55398e-52	1.00000

10000000.0 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.51464e-19 (1.00)	8.51464e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83711e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56651e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.920389	0.920389	0.920389	0.920389
rad6	0.0771567	0.997546	0.0771567	0.997546
Benzene+2-propynyl	0.00245244	0.999998	0.00245244	0.999998
rad21	2.07311e-06	1.00000	2.07311e-06	1.00000
rad20	1.79467e-08	1.00000	1.79467e-08	1.00000
rad13	1.70870e-08	1.00000	1.70870e-08	1.00000
rad22	6.93135e-09	1.00000	6.93135e-09	1.00000
rad7	5.55057e-09	1.00000	5.55057e-09	1.00000
rad25	1.30031e-09	1.00000	1.30031e-09	1.00000
rad24	5.80417e-10	1.00000	5.80417e-10	1.00000
rad45	2.96624e-10	1.00000	2.96624e-10	1.00000
rad33	1.72783e-10	1.00000	1.72783e-10	1.00000
PhCHCCH2+H	1.46438e-10	1.00000	1.46438e-10	1.00000
rad36	3.32830e-11	1.00000	3.32830e-11	1.00000
rad18	1.46195e-11	1.00000	1.46195e-11	1.00000
rad9	9.86416e-12	1.00000	9.86416e-12	1.00000
Phenyl+Allene	2.92721e-12	1.00000	0.00000	1.00000
C2H2+PhCH2	2.18895e-13	1.00000	2.18895e-13	1.00000
Indene+H	1.76509e-13	1.00000	1.76509e-13	1.00000
rad23	3.98700e-14	1.00000	3.98700e-14	1.00000
rad3	3.09650e-14	1.00000	3.09650e-14	1.00000
rad4	2.07258e-14	1.00000	2.07258e-14	1.00000
PhCH2CCH+H	8.16653e-15	1.00000	8.16653e-15	1.00000
rad28	1.92195e-15	1.00000	1.92195e-15	1.00000
rad2	2.71705e-19	1.00000	2.71705e-19	1.00000
rad8	1.41535e-19	1.00000	1.41535e-19	1.00000
rad1	3.97531e-20	1.00000	3.97531e-20	1.00000
PAH7+H	1.21240e-20	1.00000	1.21240e-20	1.00000
PhCCH+CH3	6.70463e-21	1.00000	6.70463e-21	1.00000
rad30	6.21005e-21	1.00000	6.21005e-21	1.00000
rad15	1.12689e-21	1.00000	1.12689e-21	1.00000
rad31	6.27189e-22	1.00000	6.27189e-22	1.00000
rad14	2.98719e-22	1.00000	2.98719e-22	1.00000
rad38	6.51967e-23	1.00000	6.51967e-23	1.00000
Ph+MeAc	6.56865e-24	1.00000	6.56865e-24	1.00000
rad46	6.37352e-25	1.00000	6.37352e-25	1.00000
rad60syn	2.19235e-25	1.00000	2.19235e-25	1.00000
rad26	1.91744e-25	1.00000	1.91744e-25	1.00000
rad10	1.84002e-25	1.00000	1.84002e-25	1.00000
rad60anti	6.44620e-26	1.00000	6.44620e-26	1.00000
PAH9+H	8.29899e-27	1.00000	8.29899e-27	1.00000
rad39	5.67991e-27	1.00000	5.67991e-27	1.00000
rad35	5.20278e-27	1.00000	5.20278e-27	1.00000
rad27	4.76783e-28	1.00000	4.76783e-28	1.00000
PhCCCH3+H	4.37007e-28	1.00000	4.37007e-28	1.00000
PAH3+H	2.45769e-28	1.00000	2.45769e-28	1.00000
rad59	8.59713e-29	1.00000	8.59713e-29	1.00000
rad19syn	3.20725e-29	1.00000	3.20725e-29	1.00000
rad54	2.66314e-29	1.00000	2.66314e-29	1.00000
rad50	1.61945e-30	1.00000	1.61945e-30	1.00000
rad70	6.18228e-32	1.00000	6.18228e-32	1.00000
rad55	1.39619e-33	1.00000	1.39619e-33	1.00000
rad5	1.91323e-34	1.00000	1.91323e-34	1.00000
rad52	5.07759e-35	1.00000	5.07759e-35	1.00000
PhcycC3H3_A+H	4.25920e-35	1.00000	4.25920e-35	1.00000
rad12	3.10548e-35	1.00000	3.10548e-35	1.00000
rad34	9.76398e-36	1.00000	9.76398e-36	1.00000

rad37	1.70410e-36	1.00000	1.70410e-36	1.00000
rad51	2.33953e-37	1.00000	2.33953e-37	1.00000
rad62	1.81658e-38	1.00000	1.81658e-38	1.00000
rad58	9.75520e-39	1.00000	9.75520e-39	1.00000
rad47	3.24728e-41	1.00000	3.24728e-41	1.00000
PAH1+H	8.56651e-42	1.00000	8.56651e-42	1.00000
PAH10+CH3	1.81381e-42	1.00000	1.81381e-42	1.00000
rad43	1.14319e-42	1.00000	1.14319e-42	1.00000
rad65	1.08441e-43	1.00000	1.08441e-43	1.00000
rad42	2.62929e-45	1.00000	2.62929e-45	1.00000
rad41	4.03621e-50	1.00000	4.03621e-50	1.00000

10000000.0 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.81800e-18 (1.00)	1.81800e-18 (1.00)
Formation of rad11	1.64862e-18 (0.907)	1.64862e-18 (0.907)
Formation of rad6	1.62558e-19 (0.0894)	1.62558e-19 (0.0894)
H-abstraction	6.82130e-21 (0.00375)	6.82130e-21 (0.00375)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.906790	0.906790	0.906790	0.906790
rad6	0.0894559	0.996246	0.0894559	0.996246
Benzene+2-propynyl	0.00375209	0.999998	0.00375209	0.999998
rad21	2.29723e-06	1.00000	2.29723e-06	1.00000
rad13	2.21987e-08	1.00000	2.21987e-08	1.00000
rad20	2.18166e-08	1.00000	2.18166e-08	1.00000
rad22	8.42944e-09	1.00000	8.42944e-09	1.00000
rad7	7.24886e-09	1.00000	7.24886e-09	1.00000
rad25	1.51867e-09	1.00000	1.51867e-09	1.00000
rad24	6.89728e-10	1.00000	6.89728e-10	1.00000
rad45	3.89558e-10	1.00000	3.89558e-10	1.00000
rad33	2.27585e-10	1.00000	2.27585e-10	1.00000
PhCHCCH2+H	1.85641e-10	1.00000	1.85641e-10	1.00000
rad36	4.31927e-11	1.00000	4.31927e-11	1.00000
rad18	1.97046e-11	1.00000	1.97046e-11	1.00000
rad9	1.28256e-11	1.00000	1.28256e-11	1.00000
Phenyl+Allene	4.58250e-12	1.00000	0.00000	1.00000
C2H2+PhCH2	3.20316e-13	1.00000	3.20316e-13	1.00000
Indene+H	2.41945e-13	1.00000	2.41945e-13	1.00000
rad23	5.57614e-14	1.00000	5.57614e-14	1.00000
rad3	4.66120e-14	1.00000	4.66120e-14	1.00000
rad4	3.10845e-14	1.00000	3.10845e-14	1.00000
PhCH2CCH+H	1.90482e-14	1.00000	1.90482e-14	1.00000
rad28	3.00462e-15	1.00000	3.00462e-15	1.00000
rad2	4.85607e-19	1.00000	4.85607e-19	1.00000
rad8	3.14954e-19	1.00000	3.14954e-19	1.00000
rad1	7.02128e-20	1.00000	7.02128e-20	1.00000
PAH7+H	3.29423e-20	1.00000	3.29423e-20	1.00000
PhCCH+CH3	1.38890e-20	1.00000	1.38890e-20	1.00000
rad30	1.08452e-20	1.00000	1.08452e-20	1.00000
rad15	2.02901e-21	1.00000	2.02901e-21	1.00000
rad31	8.96473e-22	1.00000	8.96473e-22	1.00000
rad14	5.78901e-22	1.00000	5.78901e-22	1.00000
rad38	1.15446e-22	1.00000	1.15446e-22	1.00000
Ph+MeAc	1.70363e-23	1.00000	1.70363e-23	1.00000
rad46	1.23849e-24	1.00000	1.23849e-24	1.00000
rad26	6.41084e-25	1.00000	6.41084e-25	1.00000
rad60syn	5.17415e-25	1.00000	5.17415e-25	1.00000
rad10	4.05735e-25	1.00000	4.05735e-25	1.00000
rad60anti	1.59999e-25	1.00000	1.59999e-25	1.00000
PAH9+H	1.55808e-26	1.00000	1.55808e-26	1.00000
rad39	1.42418e-26	1.00000	1.42418e-26	1.00000
rad35	1.08730e-26	1.00000	1.08730e-26	1.00000
PhCCCH3+H	1.18896e-27	1.00000	1.18896e-27	1.00000
rad27	1.14735e-27	1.00000	1.14735e-27	1.00000
PAH3+H	1.08358e-27	1.00000	1.08358e-27	1.00000
rad59	3.63655e-28	1.00000	3.63655e-28	1.00000
rad54	2.49787e-28	1.00000	2.49787e-28	1.00000
rad19syn	2.26170e-28	1.00000	2.26170e-28	1.00000
rad50	6.77778e-30	1.00000	6.77778e-30	1.00000
rad70	1.22629e-30	1.00000	1.22629e-30	1.00000
rad55	2.51592e-32	1.00000	2.51592e-32	1.00000
rad5	9.26466e-34	1.00000	9.26466e-34	1.00000
PhcycC3H3_A+H	8.28761e-34	1.00000	8.28761e-34	1.00000
rad34	4.33358e-34	1.00000	4.33358e-34	1.00000
rad52	4.21377e-34	1.00000	4.21377e-34	1.00000
rad12	1.51667e-34	1.00000	1.51667e-34	1.00000

rad37	9.58594e-36	1.00000	9.58594e-36	1.00000
rad51	3.28662e-36	1.00000	3.28662e-36	1.00000
rad62	2.66404e-37	1.00000	2.66404e-37	1.00000
rad58	2.40660e-37	1.00000	2.40660e-37	1.00000
rad47	1.11895e-39	1.00000	1.11895e-39	1.00000
PAH1+H	2.62077e-40	1.00000	2.62077e-40	1.00000
PAH10+CH3	2.83649e-41	1.00000	2.83649e-41	1.00000
rad43	1.70410e-41	1.00000	1.70410e-41	1.00000
rad65	2.20841e-42	1.00000	2.20841e-42	1.00000
rad42	1.17226e-43	1.00000	1.17226e-43	1.00000
rad41	1.86816e-48	1.00000	1.86816e-48	1.00000

10000000.0 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.56414e-18 (1.00)	3.56414e-18 (1.00)
Formation of rad11	3.18264e-18 (0.893)	3.18264e-18 (0.893)
Formation of rad6	3.62173e-19 (0.102)	3.62173e-19 (0.102)
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.892915	0.892915	0.892915	0.892915
rad6	0.101660	0.994575	0.101660	0.994575
Benzene+2-propynyl	0.00542285	0.999998	0.00542285	0.999998
rad21	2.54305e-06	1.00000	2.54305e-06	1.00000
rad13	2.82334e-08	1.00000	2.82334e-08	1.00000
rad20	2.64586e-08	1.00000	2.64586e-08	1.00000
rad22	1.02275e-08	1.00000	1.02275e-08	1.00000
rad7	9.27060e-09	1.00000	9.27060e-09	1.00000
rad25	1.77701e-09	1.00000	1.77701e-09	1.00000
rad24	8.16994e-10	1.00000	8.16994e-10	1.00000
rad45	5.09365e-10	1.00000	5.09365e-10	1.00000
rad33	2.93651e-10	1.00000	2.93651e-10	1.00000
PhCHCCH2+H	2.36532e-10	1.00000	2.36532e-10	1.00000
rad36	5.58642e-11	1.00000	5.58642e-11	1.00000
rad18	2.64884e-11	1.00000	2.64884e-11	1.00000
rad9	1.67540e-11	1.00000	1.67540e-11	1.00000
Phenyl+Allene	7.13308e-12	1.00000	0.00000	1.00000
C2H2+PhCH2	4.70270e-13	1.00000	4.70270e-13	1.00000
Indene+H	3.31376e-13	1.00000	3.31376e-13	1.00000
rad23	7.79003e-14	1.00000	7.79003e-14	1.00000
rad3	6.87825e-14	1.00000	6.87825e-14	1.00000
rad4	4.57174e-14	1.00000	4.57174e-14	1.00000
PhCH2CCH+H	4.20450e-14	1.00000	4.20450e-14	1.00000
rad28	4.61451e-15	1.00000	4.61451e-15	1.00000
rad2	8.55173e-19	1.00000	8.55173e-19	1.00000
rad8	6.85581e-19	1.00000	6.85581e-19	1.00000
rad1	1.22343e-19	1.00000	1.22343e-19	1.00000
PAH7+H	8.55670e-20	1.00000	8.55670e-20	1.00000
PhCCH+CH3	2.85290e-20	1.00000	2.85290e-20	1.00000
rad30	1.91082e-20	1.00000	1.91082e-20	1.00000
rad15	3.69057e-21	1.00000	3.69057e-21	1.00000
rad31	1.26777e-21	1.00000	1.26777e-21	1.00000
rad14	1.11056e-21	1.00000	1.11056e-21	1.00000
rad38	2.06145e-22	1.00000	2.06145e-22	1.00000
Ph+MeAc	4.35167e-23	1.00000	4.35167e-23	1.00000
rad46	2.43770e-24	1.00000	2.43770e-24	1.00000
rad26	2.00945e-24	1.00000	2.00945e-24	1.00000
rad60syn	1.22495e-24	1.00000	1.22495e-24	1.00000
rad10	8.88413e-25	1.00000	8.88413e-25	1.00000
rad60anti	3.96125e-25	1.00000	3.96125e-25	1.00000
rad39	3.54525e-26	1.00000	3.54525e-26	1.00000
PAH9+H	2.97670e-26	1.00000	2.97670e-26	1.00000
rad35	2.41570e-26	1.00000	2.41570e-26	1.00000
PAH3+H	4.45315e-27	1.00000	4.45315e-27	1.00000
PhCCCH3+H	3.23040e-27	1.00000	3.23040e-27	1.00000
rad27	2.75312e-27	1.00000	2.75312e-27	1.00000
rad54	1.89170e-27	1.00000	1.89170e-27	1.00000
rad59	1.43683e-27	1.00000	1.43683e-27	1.00000
rad19syn	1.33802e-27	1.00000	1.33802e-27	1.00000
rad50	2.67383e-29	1.00000	2.67383e-29	1.00000
rad70	1.77825e-29	1.00000	1.77825e-29	1.00000
rad55	3.36518e-31	1.00000	3.36518e-31	1.00000
PhcycC3H3_A+H	1.18896e-32	1.00000	1.18896e-32	1.00000
rad34	1.06106e-32	1.00000	1.06106e-32	1.00000
rad5	4.26722e-33	1.00000	4.26722e-33	1.00000
rad52	3.01573e-33	1.00000	3.01573e-33	1.00000
rad12	7.03529e-34	1.00000	7.03529e-34	1.00000

rad37	5.09099e-35	1.00000	5.09099e-35	1.00000
rad51	3.75774e-35	1.00000	3.75774e-35	1.00000
rad58	4.38824e-36	1.00000	4.38824e-36	1.00000
rad62	3.16209e-36	1.00000	3.16209e-36	1.00000
rad47	2.68581e-38	1.00000	2.68581e-38	1.00000
PAH1+H	5.40786e-39	1.00000	5.40786e-39	1.00000
PAH10+CH3	3.65461e-40	1.00000	3.65461e-40	1.00000
rad43	2.12347e-40	1.00000	2.12347e-40	1.00000
rad65	3.48801e-41	1.00000	3.48801e-41	1.00000
rad42	3.12159e-42	1.00000	3.12159e-42	1.00000
rad41	5.33834e-47	1.00000	5.33834e-47	1.00000

10000000.0 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.50681e-18 (1.00)	6.50681e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71915e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39013e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.878897	0.878897	0.878897	0.878897
rad6	0.113623	0.992520	0.113623	0.992520
Benzene+2-propynyl	0.00747672	0.999997	0.00747672	0.999997
rad21	2.81429e-06	1.000000	2.81429e-06	1.000000
rad13	3.52949e-08	1.000000	3.52949e-08	1.000000
rad20	3.20524e-08	1.000000	3.20524e-08	1.000000
rad22	1.23956e-08	1.000000	1.23956e-08	1.000000
rad7	1.16573e-08	1.000000	1.16573e-08	1.000000
rad25	2.08444e-09	1.000000	2.08444e-09	1.000000
rad24	9.65611e-10	1.000000	9.65611e-10	1.000000
rad45	6.64185e-10	1.000000	6.64185e-10	1.000000
rad33	3.72649e-10	1.000000	3.72649e-10	1.000000
PhCHCCH2+H	3.02958e-10	1.000000	3.02958e-10	1.000000
rad36	7.21205e-11	1.000000	7.21205e-11	1.000000
rad18	3.55774e-11	1.000000	3.55774e-11	1.000000
rad9	2.19870e-11	1.000000	2.19870e-11	1.000000
Phenyl+Allene	1.10438e-11	1.000000	0.000000	1.000000
C2H2+PhCH2	6.93784e-13	1.000000	6.93784e-13	1.000000
Indene+H	4.54394e-13	1.000000	4.54394e-13	1.000000
rad23	1.08917e-13	1.000000	1.08917e-13	1.000000
rad3	9.99610e-14	1.000000	9.99610e-14	1.000000
PhCH2CCH+H	8.85757e-14	1.000000	8.85757e-14	1.000000
rad4	6.62420e-14	1.000000	6.62420e-14	1.000000
rad28	6.99399e-15	1.000000	6.99399e-15	1.000000
rad2	1.49143e-18	1.000000	1.49143e-18	1.000000
rad8	1.46236e-18	1.000000	1.46236e-18	1.000000
PAH7+H	2.13660e-19	1.000000	2.13660e-19	1.000000
rad1	2.11353e-19	1.000000	2.11353e-19	1.000000
PhCCH+CH3	5.83297e-20	1.000000	5.83297e-20	1.000000
rad30	3.40140e-20	1.000000	3.40140e-20	1.000000
rad15	6.78807e-21	1.000000	6.78807e-21	1.000000
rad14	2.11834e-21	1.000000	2.11834e-21	1.000000
rad31	1.78128e-21	1.000000	1.78128e-21	1.000000
rad38	3.71738e-22	1.000000	3.71738e-22	1.000000
Ph+MeAc	1.09726e-22	1.000000	1.09726e-22	1.000000
rad26	5.95891e-24	1.000000	5.95891e-24	1.000000
rad46	4.85939e-24	1.000000	4.85939e-24	1.000000
rad60syn	2.90581e-24	1.000000	2.90581e-24	1.000000
rad10	1.94125e-24	1.000000	1.94125e-24	1.000000
rad60anti	9.77806e-25	1.000000	9.77806e-25	1.000000
rad39	8.77570e-26	1.000000	8.77570e-26	1.000000
PAH9+H	5.79524e-26	1.000000	5.79524e-26	1.000000
rad35	5.69037e-26	1.000000	5.69037e-26	1.000000
PAH3+H	1.72174e-26	1.000000	1.72174e-26	1.000000
rad54	1.19553e-26	1.000000	1.19553e-26	1.000000
PhCCCH3+H	8.78521e-27	1.000000	8.78521e-27	1.000000
rad19syn	6.82819e-27	1.000000	6.82819e-27	1.000000
rad27	6.61281e-27	1.000000	6.61281e-27	1.000000
rad59	5.35245e-27	1.000000	5.35245e-27	1.000000
rad70	1.98515e-28	1.000000	1.98515e-28	1.000000
rad50	1.00142e-28	1.000000	1.00142e-28	1.000000
rad55	3.49700e-30	1.000000	3.49700e-30	1.000000
rad34	1.75991e-31	1.000000	1.75991e-31	1.000000
PhcycC3H3_A+H	1.31909e-31	1.000000	1.31909e-31	1.000000
rad52	1.89715e-32	1.000000	1.89715e-32	1.000000
rad5	1.88010e-32	1.000000	1.88010e-32	1.000000
rad12	3.11256e-33	1.000000	3.11256e-33	1.000000

rad51	3.58110e-34	1.000000	3.58110e-34	1.000000
rad37	2.56010e-34	1.000000	2.56010e-34	1.000000
rad58	6.15331e-35	1.000000	6.15331e-35	1.000000
rad62	3.11981e-35	1.000000	3.11981e-35	1.000000
rad47	4.69340e-37	1.000000	4.69340e-37	1.000000
PAH1+H	8.25011e-38	1.000000	8.25011e-38	1.000000
PAH10+CH3	3.94694e-39	1.000000	3.94694e-39	1.000000
rad43	2.25144e-39	1.000000	2.25144e-39	1.000000
rad65	4.39953e-40	1.000000	4.39953e-40	1.000000
rad42	5.95972e-41	1.000000	5.95972e-41	1.000000
rad41	1.09625e-45	1.000000	1.09625e-45	1.000000

10000000.0 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.11858e-17 (1.00)	1.11858e-17 (1.00)
Formation of rad11	9.67466e-18 (0.865)	9.67466e-18 (0.865)
Formation of rad6	1.40029e-18 (0.125)	1.40029e-18 (0.125)
H-abstraction	1.10851e-19 (0.00991)	1.10851e-19 (0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.864851	0.864851	0.864851	0.864851
rad6	0.125236	0.990087	0.125236	0.990087
Benzene+2-propynyl	0.00990995	0.999997	0.00990995	0.999997
rad21	3.11520e-06	1.00000	3.11520e-06	1.00000
rad13	4.35068e-08	1.00000	4.35068e-08	1.00000
rad20	3.88238e-08	1.00000	3.88238e-08	1.00000
rad22	1.50220e-08	1.00000	1.50220e-08	1.00000
rad7	1.44589e-08	1.00000	1.44589e-08	1.00000
rad25	2.45219e-09	1.00000	2.45219e-09	1.00000
rad24	1.13961e-09	1.00000	1.13961e-09	1.00000
rad45	8.64770e-10	1.00000	8.64770e-10	1.00000
rad33	4.66580e-10	1.00000	4.66580e-10	1.00000
PhCHCCH2+H	3.90058e-10	1.00000	3.90058e-10	1.00000
rad36	9.30467e-11	1.00000	9.30467e-11	1.00000
rad18	4.78117e-11	1.00000	4.78117e-11	1.00000
rad9	2.89811e-11	1.00000	2.89811e-11	1.00000
Phenyl+Allene	1.70098e-11	1.00000	0.00000	1.00000
C2H2+PhCH2	1.02956e-12	1.00000	1.02956e-12	1.00000
Indene+H	6.24782e-13	1.00000	6.24782e-13	1.00000
PhCH2CCH+H	1.79317e-13	1.00000	1.79317e-13	1.00000
rad23	1.52633e-13	1.00000	1.52633e-13	1.00000
rad3	1.43601e-13	1.00000	1.43601e-13	1.00000
rad4	9.49036e-14	1.00000	9.49036e-14	1.00000
rad28	1.04983e-14	1.00000	1.04983e-14	1.00000
rad8	3.06170e-18	1.00000	3.06170e-18	1.00000
rad2	2.58574e-18	1.00000	2.58574e-18	1.00000
PAH7+H	5.15265e-19	1.00000	5.15265e-19	1.00000
rad1	3.63347e-19	1.00000	3.63347e-19	1.00000
PhCCH+CH3	1.18989e-19	1.00000	1.18989e-19	1.00000
rad30	6.12024e-20	1.00000	6.12024e-20	1.00000
rad15	1.26264e-20	1.00000	1.26264e-20	1.00000
rad14	4.02967e-21	1.00000	4.02967e-21	1.00000
rad31	2.49507e-21	1.00000	2.49507e-21	1.00000
rad38	6.77342e-22	1.00000	6.77342e-22	1.00000
Ph+MeAc	2.73458e-22	1.00000	2.73458e-22	1.00000
rad26	1.68434e-23	1.00000	1.68434e-23	1.00000
rad46	9.80111e-24	1.00000	9.80111e-24	1.00000
rad60syn	6.89728e-24	1.00000	6.89728e-24	1.00000
rad10	4.24651e-24	1.00000	4.24651e-24	1.00000
rad60anti	2.40460e-24	1.00000	2.40460e-24	1.00000
rad39	2.16096e-25	1.00000	2.16096e-25	1.00000
rad35	1.40626e-25	1.00000	1.40626e-25	1.00000
PAH9+H	1.15004e-25	1.00000	1.15004e-25	1.00000
rad54	6.47997e-26	1.00000	6.47997e-26	1.00000
PAH3+H	6.31157e-26	1.00000	6.31157e-26	1.00000
rad19syn	3.07577e-26	1.00000	3.07577e-26	1.00000
PhCCCH3+H	2.39294e-26	1.00000	2.39294e-26	1.00000
rad59	1.89460e-26	1.00000	1.89460e-26	1.00000
rad27	1.59316e-26	1.00000	1.59316e-26	1.00000
rad70	1.77221e-27	1.00000	1.77221e-27	1.00000
rad50	3.58253e-28	1.00000	3.58253e-28	1.00000
rad55	2.92456e-29	1.00000	2.92456e-29	1.00000
rad34	2.17651e-30	1.00000	2.17651e-30	1.00000
PhcycC3H3_A+H	1.17162e-30	1.00000	1.17162e-30	1.00000
rad52	1.06735e-31	1.00000	1.06735e-31	1.00000
rad5	7.95705e-32	1.00000	7.95705e-32	1.00000
rad12	1.31738e-32	1.00000	1.31738e-32	1.00000

rad51	2.90662e-33	1.00000	2.90662e-33	1.00000
rad37	1.22174e-33	1.00000	1.22174e-33	1.00000
rad58	6.86631e-34	1.00000	6.86631e-34	1.00000
rad62	2.61079e-34	1.00000	2.61079e-34	1.00000
rad47	6.30711e-36	1.00000	6.30711e-36	1.00000
PAH1+H	9.64901e-37	1.00000	9.64901e-37	1.00000
PAH10+CH3	3.62464e-38	1.00000	3.62464e-38	1.00000
rad43	2.05450e-38	1.00000	2.05450e-38	1.00000
rad65	4.54878e-39	1.00000	4.54878e-39	1.00000
rad42	8.48307e-40	1.00000	8.48307e-40	1.00000
rad41	1.68032e-44	1.00000	1.68032e-44	1.00000

10000000.0 Pa, 200.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.82690e-17	(1.00)	1.82690e-17	(1.00)
Formation of rad11	1.55456e-17	(0.851)	1.55456e-17	(0.851)
Formation of rad6	2.49126e-18	(0.136)	2.49126e-18	(0.136)
H-abstraction	2.32112e-19	(0.0127)	2.32112e-19	(0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.850868	0.850868	0.850868	0.850868
rad6	0.136422	0.987291	0.136422	0.987291
Benzene+2-propynyl	0.0127053	0.999996	0.0127053	0.999996
rad21	3.45062e-06	1.000000	3.45062e-06	1.000000
rad13	5.30171e-08	1.000000	5.30171e-08	1.000000
rad20	4.70564e-08	1.000000	4.70564e-08	1.000000
rad22	1.82177e-08	1.000000	1.82177e-08	1.000000
rad7	1.77355e-08	1.000000	1.77355e-08	1.000000
rad25	2.89407e-09	1.000000	2.89407e-09	1.000000
rad24	1.34378e-09	1.000000	1.34378e-09	1.000000
rad45	1.12532e-09	1.000000	1.12532e-09	1.000000
rad33	5.77849e-10	1.000000	5.77849e-10	1.000000
PhCHCCH2+H	5.04698e-10	1.000000	5.04698e-10	1.000000
rad36	1.20074e-10	1.000000	1.20074e-10	1.000000
rad18	6.43576e-11	1.000000	6.43576e-11	1.000000
rad9	3.83532e-11	1.000000	3.83532e-11	1.000000
Phenyl+Allene	2.60637e-11	1.000000	0.000000	1.000000
C2H2+PhCH2	1.53773e-12	1.000000	1.53773e-12	1.000000
Indene+H	8.62458e-13	1.000000	8.62458e-13	1.000000
PhCH2CCH+H	3.50758e-13	1.000000	3.50758e-13	1.000000
rad23	2.14627e-13	1.000000	2.14627e-13	1.000000
rad3	2.04505e-13	1.000000	2.04505e-13	1.000000
rad4	1.34828e-13	1.000000	1.34828e-13	1.000000
rad28	1.56484e-14	1.000000	1.56484e-14	1.000000
rad8	6.30103e-18	1.000000	6.30103e-18	1.000000
rad2	4.46876e-18	1.000000	4.46876e-18	1.000000
PAH7+H	1.20468e-18	1.000000	1.20468e-18	1.000000
rad1	6.23296e-19	1.000000	6.23296e-19	1.000000
PhCCH+CH3	2.42489e-19	1.000000	2.42489e-19	1.000000
rad30	1.11291e-19	1.000000	1.11291e-19	1.000000
rad15	2.37372e-20	1.000000	2.37372e-20	1.000000
rad14	7.65919e-21	1.000000	7.65919e-21	1.000000
rad31	3.49370e-21	1.000000	3.49370e-21	1.000000
rad38	1.24685e-21	1.000000	1.24685e-21	1.000000
Ph+MeAc	6.73980e-22	1.000000	6.73980e-22	1.000000
rad26	4.56527e-23	1.000000	4.56527e-23	1.000000
rad46	1.99712e-23	1.000000	1.99712e-23	1.000000
rad60syn	1.63556e-23	1.000000	1.63556e-23	1.000000
rad10	9.31667e-24	1.000000	9.31667e-24	1.000000
rad60anti	5.88538e-24	1.000000	5.88538e-24	1.000000
rad39	5.29159e-25	1.000000	5.29159e-25	1.000000
rad35	3.59407e-25	1.000000	3.59407e-25	1.000000
rad54	3.07960e-25	1.000000	3.07960e-25	1.000000
PAH9+H	2.32465e-25	1.000000	2.32465e-25	1.000000
PAH3+H	2.20738e-25	1.000000	2.20738e-25	1.000000
rad19syn	1.24593e-25	1.000000	1.24593e-25	1.000000
PhCCCH3+H	6.52489e-26	1.000000	6.52489e-26	1.000000
rad59	6.41178e-26	1.000000	6.41178e-26	1.000000
rad27	3.85250e-26	1.000000	3.85250e-26	1.000000
rad70	1.30385e-26	1.000000	1.30385e-26	1.000000
rad50	1.23037e-27	1.000000	1.23037e-27	1.000000
rad55	2.02504e-28	1.000000	2.02504e-28	1.000000
rad34	2.10702e-29	1.000000	2.10702e-29	1.000000
PhcycC3H3_A+H	8.56685e-30	1.000000	8.56685e-30	1.000000
rad52	5.44874e-31	1.000000	5.44874e-31	1.000000
rad5	3.24309e-31	1.000000	3.24309e-31	1.000000
rad12	5.34363e-32	1.000000	5.34363e-32	1.000000

rad51	2.04553e-32	1.000000	2.04553e-32	1.000000
rad58	6.25816e-33	1.000000	6.25816e-33	1.000000
rad37	5.53911e-33	1.000000	5.53911e-33	1.000000
rad62	1.88139e-33	1.000000	1.88139e-33	1.000000
rad47	6.75037e-35	1.000000	6.75037e-35	1.000000
PAH1+H	8.93314e-36	1.000000	8.93314e-36	1.000000
PAH10+CH3	2.86022e-37	1.000000	2.86022e-37	1.000000
rad43	1.62596e-37	1.000000	1.62596e-37	1.000000
rad65	3.93556e-38	1.000000	3.93556e-38	1.000000
rad42	9.34344e-39	1.000000	9.34344e-39	1.000000
rad41	1.99369e-43	1.000000	1.99369e-43	1.000000

10000000.0 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.85520e-17 (1.00)	2.85520e-17 (1.00)
Formation of rad11	2.39009e-17 (0.837)	2.39009e-17 (0.837)
Formation of rad6	4.19900e-18 (0.147)	4.19900e-18 (0.147)
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.837035	0.837035	0.837035	0.837035
rad6	0.147127	0.984161	0.147127	0.984161
Benzene+2-propynyl	0.0158346	0.999996	0.0158346	0.999996
rad21	3.82612e-06	1.000000	3.82612e-06	1.000000
rad13	6.40017e-08	1.000000	6.40017e-08	1.000000
rad20	5.71063e-08	1.000000	5.71063e-08	1.000000
rad22	2.21221e-08	1.000000	2.21221e-08	1.000000
rad7	2.15591e-08	1.000000	2.15591e-08	1.000000
rad25	3.42710e-09	1.000000	3.42710e-09	1.000000
rad24	1.58370e-09	1.000000	1.58370e-09	1.000000
rad45	1.46456e-09	1.000000	1.46456e-09	1.000000
rad33	7.09331e-10	1.000000	7.09331e-10	1.000000
PhCHCCH2+H	6.56036e-10	1.000000	6.56036e-10	1.000000
rad36	1.55087e-10	1.000000	1.55087e-10	1.000000
rad18	8.68372e-11	1.000000	8.68372e-11	1.000000
rad9	5.09341e-11	1.000000	5.09341e-11	1.000000
Phenyl+Allene	3.97283e-11	1.000000	0.000000	1.000000
C2H2+PhCH2	2.31191e-12	1.000000	2.31191e-12	1.000000
Indene+H	1.19632e-12	1.000000	1.19632e-12	1.000000
PhCH2CCH+H	6.65853e-13	1.000000	6.65853e-13	1.000000
rad23	3.03061e-13	1.000000	3.03061e-13	1.000000
rad3	2.89376e-13	1.000000	2.89376e-13	1.000000
rad4	1.90372e-13	1.000000	1.90372e-13	1.000000
rad28	2.32095e-14	1.000000	2.32095e-14	1.000000
rad8	1.27626e-17	1.000000	1.27626e-17	1.000000
rad2	7.71330e-18	1.000000	7.71330e-18	1.000000
PAH7+H	2.73893e-18	1.000000	2.73893e-18	1.000000
rad1	1.06890e-18	1.000000	1.06890e-18	1.000000
PhCCH+CH3	4.93910e-19	1.000000	4.93910e-19	1.000000
rad30	2.04354e-19	1.000000	2.04354e-19	1.000000
rad15	4.50504e-20	1.000000	4.50504e-20	1.000000
rad14	1.45608e-20	1.000000	1.45608e-20	1.000000
rad31	4.90142e-21	1.000000	4.90142e-21	1.000000
rad38	2.31714e-21	1.000000	2.31714e-21	1.000000
Ph+MeAc	1.64298e-21	1.000000	1.64298e-21	1.000000
rad26	1.19212e-22	1.000000	1.19212e-22	1.000000
rad46	4.10383e-23	1.000000	4.10383e-23	1.000000
rad60syn	3.86841e-23	1.000000	3.86841e-23	1.000000
rad10	2.05159e-23	1.000000	2.05159e-23	1.000000
rad60anti	1.43207e-23	1.000000	1.43207e-23	1.000000
rad54	1.30600e-24	1.000000	1.30600e-24	1.000000
rad39	1.28743e-24	1.000000	1.28743e-24	1.000000
rad35	9.36563e-25	1.000000	9.36563e-25	1.000000
PAH3+H	7.39982e-25	1.000000	7.39982e-25	1.000000
PAH9+H	4.77973e-25	1.000000	4.77973e-25	1.000000
rad19syn	4.60592e-25	1.000000	4.60592e-25	1.000000
rad59	2.08425e-25	1.000000	2.08425e-25	1.000000
PhCCCH3+H	1.77861e-25	1.000000	1.77861e-25	1.000000
rad27	9.34701e-26	1.000000	9.34701e-26	1.000000
rad70	8.09717e-26	1.000000	8.09717e-26	1.000000
rad50	4.07238e-27	1.000000	4.07238e-27	1.000000
rad55	1.18768e-27	1.000000	1.18768e-27	1.000000
rad34	1.64759e-28	1.000000	1.64759e-28	1.000000
PhcycC3H3_A+H	5.27420e-29	1.000000	5.27420e-29	1.000000
rad52	2.55277e-30	1.000000	2.55277e-30	1.000000
rad5	1.27355e-30	1.000000	1.27355e-30	1.000000
rad12	2.07803e-31	1.000000	2.07803e-31	1.000000

rad51	1.26591e-31	1.00000	1.26591e-31	1.00000
rad58	4.75533e-32	1.00000	4.75533e-32	1.00000
rad37	2.38458e-32	1.00000	2.38458e-32	1.00000
rad62	1.18097e-32	1.00000	1.18097e-32	1.00000
rad47	5.90417e-34	1.00000	5.90417e-34	1.00000
PAH1+H	6.72850e-35	1.00000	6.72850e-35	1.00000
PAH10+CH3	1.95413e-36	1.00000	1.95413e-36	1.00000
rad43	1.12283e-36	1.00000	1.12283e-36	1.00000
rad65	2.89601e-37	1.00000	2.89601e-37	1.00000
rad42	8.22457e-38	1.00000	8.22457e-38	1.00000
rad41	1.89053e-42	1.00000	1.89053e-42	1.00000

10000000.0 Pa, 220.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	4.29529e-17	(1.00)	4.29529e-17	(1.00)
Formation of rad11	3.53712e-17	(0.823)	3.53712e-17	(0.823)
Formation of rad6	6.75433e-18	(0.157)	6.75433e-18	(0.157)
H-abstraction	8.27372e-19	(0.0193)	8.27372e-19	(0.0193)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.823416	0.823416	0.823416	0.823416
rad6	0.157317	0.980733	0.157317	0.980733
Benzene+2-propynyl	0.0192623	0.999995	0.0192623	0.999995
rad21	4.24798e-06	0.999999	4.24798e-06	0.999999
rad13	7.66691e-08	0.999999	7.66691e-08	0.999999
rad20	6.94195e-08	0.999999	6.94195e-08	0.999999
rad22	2.69105e-08	1.000000	2.69105e-08	1.000000
rad7	2.60163e-08	1.000000	2.60163e-08	1.000000
rad25	4.07217e-09	1.000000	4.07217e-09	1.000000
rad45	1.90715e-09	1.000000	1.90715e-09	1.000000
rad24	1.86591e-09	1.000000	1.86591e-09	1.000000
rad33	8.64454e-10	1.000000	8.64454e-10	1.000000
PhCHCCH2+H	8.56263e-10	1.000000	8.56263e-10	1.000000
rad36	2.00572e-10	1.000000	2.00572e-10	1.000000
rad18	1.17510e-10	1.000000	1.17510e-10	1.000000
rad9	6.78405e-11	1.000000	6.78405e-11	1.000000
Phenyl+Allene	6.02360e-11	1.000000	0.000000	1.000000
C2H2+PhCH2	3.49819e-12	1.000000	3.49819e-12	1.000000
Indene+H	1.66850e-12	1.000000	1.66850e-12	1.000000
PhCH2CCH+H	1.23101e-12	1.000000	1.23101e-12	1.000000
rad23	4.29923e-13	1.000000	4.29923e-13	1.000000
rad3	4.07555e-13	1.000000	4.07555e-13	1.000000
rad4	2.67614e-13	1.000000	2.67614e-13	1.000000
rad28	3.43037e-14	1.000000	3.43037e-14	1.000000
rad8	2.54669e-17	1.000000	2.54669e-17	1.000000
rad2	1.33128e-17	1.000000	1.33128e-17	1.000000
PAH7+H	6.07042e-18	1.000000	6.07042e-18	1.000000
rad1	1.83474e-18	1.000000	1.83474e-18	1.000000
PhCCH+CH3	1.00534e-18	1.000000	1.00534e-18	1.000000
rad30	3.78470e-19	1.000000	3.78470e-19	1.000000
rad15	8.61859e-20	1.000000	8.61859e-20	1.000000
rad14	2.76974e-20	1.000000	2.76974e-20	1.000000
rad31	6.90221e-21	1.000000	6.90221e-21	1.000000
rad38	4.34272e-21	1.000000	4.34272e-21	1.000000
Ph+MeAc	3.96022e-21	1.000000	3.96022e-21	1.000000
rad26	3.01002e-22	1.000000	3.01002e-22	1.000000
rad60syn	9.11078e-23	1.000000	9.11078e-23	1.000000
rad46	8.48788e-23	1.000000	8.48788e-23	1.000000
rad10	4.53385e-23	1.000000	4.53385e-23	1.000000
rad60anti	3.46002e-23	1.000000	3.46002e-23	1.000000
rad54	5.00976e-24	1.000000	5.00976e-24	1.000000
rad39	3.10793e-24	1.000000	3.10793e-24	1.000000
rad35	2.45896e-24	1.000000	2.45896e-24	1.000000
PAH3+H	2.38518e-24	1.000000	2.38518e-24	1.000000
rad19syn	1.57155e-24	1.000000	1.57155e-24	1.000000
PAH9+H	9.97753e-25	1.000000	9.97753e-25	1.000000
rad59	6.52825e-25	1.000000	6.52825e-25	1.000000
PhCCCH3+H	4.83613e-25	1.000000	4.83613e-25	1.000000
rad70	4.32735e-25	1.000000	4.32735e-25	1.000000
rad27	2.27261e-25	1.000000	2.27261e-25	1.000000
rad50	1.30265e-26	1.000000	1.30265e-26	1.000000
rad55	6.00983e-27	1.000000	6.00983e-27	1.000000
rad34	1.06759e-27	1.000000	1.06759e-27	1.000000
PhcycC3H3_A+H	2.78495e-28	1.000000	2.78495e-28	1.000000
rad52	1.10679e-29	1.000000	1.10679e-29	1.000000
rad5	4.81047e-30	1.000000	4.81047e-30	1.000000
rad12	7.73770e-31	1.000000	7.73770e-31	1.000000

rad51	6.96679e-31	1.000000	6.96679e-31	1.000000
rad58	3.06593e-31	1.000000	3.06593e-31	1.000000
rad37	9.72563e-32	1.000000	9.72563e-32	1.000000
rad62	6.51861e-32	1.000000	6.51861e-32	1.000000
rad47	4.31628e-33	1.000000	4.31628e-33	1.000000
PAH1+H	4.22131e-34	1.000000	4.22131e-34	1.000000
PAH10+CH3	1.16406e-35	1.000000	1.16406e-35	1.000000
rad43	6.80816e-36	1.000000	6.80816e-36	1.000000
rad65	1.83790e-36	1.000000	1.83790e-36	1.000000
rad42	5.94897e-37	1.000000	5.94897e-37	1.000000
rad41	1.47294e-41	1.000000	1.47294e-41	1.000000

10000000.0 Pa, 230.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	6.25016e-17	(1.00)	6.25016e-17	(1.00)
Formation of rad11	5.06355e-17	(0.810)	5.06355e-17	(0.810)
Formation of rad6	1.04318e-17	(0.167)	1.04318e-17	(0.167)
H-abstraction	1.43428e-18	(0.0229)	1.43428e-18	(0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.810068	0.810068	0.810068	0.810068
rad6	0.166979	0.977047	0.166979	0.977047
Benzene+2-propynyl	0.0229478	0.999995	0.0229478	0.999995
rad21	4.72333e-06	1.000000	4.72333e-06	1.000000
rad13	9.12652e-08	1.000000	9.12652e-08	1.000000
rad20	8.45551e-08	1.000000	8.45551e-08	1.000000
rad22	3.28030e-08	1.000000	3.28030e-08	1.000000
rad7	3.12101e-08	1.000000	3.12101e-08	1.000000
rad25	4.85491e-09	1.000000	4.85491e-09	1.000000
rad45	2.48552e-09	1.000000	2.48552e-09	1.000000
rad24	2.19802e-09	1.000000	2.19802e-09	1.000000
PhCHCCH2+H	1.12159e-09	1.000000	1.12159e-09	1.000000
rad33	1.04728e-09	1.000000	1.04728e-09	1.000000
rad36	2.59796e-10	1.000000	2.59796e-10	1.000000
rad18	1.59525e-10	1.000000	1.59525e-10	1.000000
Phenyl+Allene	9.08348e-11	1.000000	0.000000	1.000000
rad9	9.05693e-11	1.000000	9.05693e-11	1.000000
C2H2+PhCH2	5.32484e-12	1.000000	5.32484e-12	1.000000
Indene+H	2.34061e-12	1.000000	2.34061e-12	1.000000
PhCH2CCH+H	2.22282e-12	1.000000	2.22282e-12	1.000000
rad23	6.12850e-13	1.000000	6.12850e-13	1.000000
rad3	5.72071e-13	1.000000	5.72071e-13	1.000000
rad4	3.75033e-13	1.000000	3.75033e-13	1.000000
rad28	5.05762e-14	1.000000	5.05762e-14	1.000000
rad8	5.01031e-17	1.000000	5.01031e-17	1.000000
rad2	2.29911e-17	1.000000	2.29911e-17	1.000000
PAH7+H	1.31406e-17	1.000000	1.31406e-17	1.000000
rad1	3.15425e-18	1.000000	3.15425e-18	1.000000
PhCCH+CH3	2.04370e-18	1.000000	2.04370e-18	1.000000
rad30	7.05923e-19	1.000000	7.05923e-19	1.000000
rad15	1.65920e-19	1.000000	1.65920e-19	1.000000
rad14	5.27071e-20	1.000000	5.27071e-20	1.000000
rad31	9.77101e-21	1.000000	9.77101e-21	1.000000
Ph+MeAc	9.43137e-21	1.000000	9.43137e-21	1.000000
rad38	8.19762e-21	1.000000	8.19762e-21	1.000000
rad26	7.36873e-22	1.000000	7.36873e-22	1.000000
rad60syn	2.13293e-22	1.000000	2.13293e-22	1.000000
rad46	1.76359e-22	1.000000	1.76359e-22	1.000000
rad10	1.00461e-22	1.000000	1.00461e-22	1.000000
rad60anti	8.28905e-23	1.000000	8.28905e-23	1.000000
rad54	1.75633e-23	1.000000	1.75633e-23	1.000000
rad39	7.43018e-24	1.000000	7.43018e-24	1.000000
PAH3+H	7.40380e-24	1.000000	7.40380e-24	1.000000
rad35	6.44431e-24	1.000000	6.44431e-24	1.000000
rad19syn	4.99045e-24	1.000000	4.99045e-24	1.000000
PAH9+H	2.10968e-24	1.000000	2.10968e-24	1.000000
rad70	2.02202e-24	1.000000	2.02202e-24	1.000000
rad59	1.97349e-24	1.000000	1.97349e-24	1.000000
PhCCCH3+H	1.30750e-24	1.000000	1.30750e-24	1.000000
rad27	5.52599e-25	1.000000	5.52599e-25	1.000000
rad50	4.03319e-26	1.000000	4.03319e-26	1.000000
rad55	2.66395e-26	1.000000	2.66395e-26	1.000000
rad34	5.85820e-27	1.000000	5.85820e-27	1.000000
PhcycC3H3_A+H	1.28097e-27	1.000000	1.28097e-27	1.000000
rad52	4.46627e-29	1.000000	4.46627e-29	1.000000
rad5	1.74160e-29	1.000000	1.74160e-29	1.000000
rad51	3.44083e-30	1.000000	3.44083e-30	1.000000

rad12	2.75132e-30	1.00000	2.75132e-30	1.00000
rad58	1.70355e-30	1.00000	1.70355e-30	1.00000
rad37	3.74509e-31	1.00000	3.74509e-31	1.00000
rad62	3.19109e-31	1.00000	3.19109e-31	1.00000
rad47	2.69092e-32	1.00000	2.69092e-32	1.00000
PAH1+H	2.25122e-33	1.00000	2.25122e-33	1.00000
PAH10+CH3	6.09119e-35	1.00000	6.09119e-35	1.00000
rad43	3.65016e-35	1.00000	3.65016e-35	1.00000
rad65	1.01874e-35	1.00000	1.01874e-35	1.00000
rad42	3.62109e-36	1.00000	3.62109e-36	1.00000
rad41	9.65582e-41	1.00000	9.65582e-41	1.00000

10000000.0 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83273e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04077e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55481e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.797037	0.797037	0.797037	0.797037
rad6	0.176109	0.973146	0.176109	0.973146
Benzene+2-propynyl	0.0268483	0.999994	0.0268483	0.999994
rad21	5.26032e-06	0.999999	5.26032e-06	0.999999
rad13	1.08078e-07	1.000000	1.08078e-07	1.000000
rad20	1.03212e-07	1.000000	1.03212e-07	1.000000
rad22	4.00757e-08	1.000000	4.00757e-08	1.000000
rad7	3.72630e-08	1.000000	3.72630e-08	1.000000
rad25	5.80674e-09	1.000000	5.80674e-09	1.000000
rad45	3.24220e-09	1.000000	3.24220e-09	1.000000
rad24	2.58875e-09	1.000000	2.58875e-09	1.000000
PhCHCCH2+H	1.47348e-09	1.000000	1.47348e-09	1.000000
rad33	1.26261e-09	1.000000	1.26261e-09	1.000000
rad36	3.37061e-10	1.000000	3.37061e-10	1.000000
rad18	2.17276e-10	1.000000	2.17276e-10	1.000000
Phenyl+Allene	1.36218e-10	1.000000	0.000000	1.000000
rad9	1.21120e-10	1.000000	1.21120e-10	1.000000
C2H2+PhCH2	8.14846e-12	1.000000	8.14846e-12	1.000000
PhCH2CCH+H	3.92918e-12	1.000000	3.92918e-12	1.000000
Indene+H	3.30308e-12	1.000000	3.30308e-12	1.000000
rad23	8.77842e-13	1.000000	8.77842e-13	1.000000
rad3	8.01068e-13	1.000000	8.01068e-13	1.000000
rad4	5.24453e-13	1.000000	5.24453e-13	1.000000
rad28	7.44344e-14	1.000000	7.44344e-14	1.000000
rad8	9.72394e-17	1.000000	9.72394e-17	1.000000
rad2	3.97362e-17	1.000000	3.97362e-17	1.000000
PAH7+H	2.78212e-17	1.000000	2.78212e-17	1.000000
rad1	5.43230e-18	1.000000	5.43230e-18	1.000000
PhCCH+CH3	4.14469e-18	1.000000	4.14469e-18	1.000000
rad30	1.32383e-18	1.000000	1.32383e-18	1.000000
rad15	3.20821e-19	1.000000	3.20821e-19	1.000000
rad14	1.00277e-19	1.000000	1.00277e-19	1.000000
Ph+MeAc	2.21617e-20	1.000000	2.21617e-20	1.000000
rad38	1.55641e-20	1.000000	1.55641e-20	1.000000
rad31	1.39225e-20	1.000000	1.39225e-20	1.000000
rad26	1.75223e-21	1.000000	1.75223e-21	1.000000
rad60syn	4.95380e-22	1.000000	4.95380e-22	1.000000
rad46	3.67407e-22	1.000000	3.67407e-22	1.000000
rad10	2.22808e-22	1.000000	2.22808e-22	1.000000
rad60anti	1.96553e-22	1.000000	1.96553e-22	1.000000
rad54	5.67163e-23	1.000000	5.67163e-23	1.000000
PAH3+H	2.21331e-23	1.000000	2.21331e-23	1.000000
rad39	1.75454e-23	1.000000	1.75454e-23	1.000000
rad35	1.67337e-23	1.000000	1.67337e-23	1.000000
rad19syn	1.48354e-23	1.000000	1.48354e-23	1.000000
rad70	8.37118e-24	1.000000	8.37118e-24	1.000000
rad59	5.75909e-24	1.000000	5.75909e-24	1.000000
PAH9+H	4.50639e-24	1.000000	4.50639e-24	1.000000
PhCCCH3+H	3.49999e-24	1.000000	3.49999e-24	1.000000
rad27	1.33974e-24	1.000000	1.33974e-24	1.000000
rad50	1.20916e-25	1.000000	1.20916e-25	1.000000
rad55	1.04778e-25	1.000000	1.04778e-25	1.000000
rad34	2.77324e-26	1.000000	2.77324e-26	1.000000
PhcycC3H3_A+H	5.20142e-27	1.000000	5.20142e-27	1.000000
rad52	1.68397e-28	1.000000	1.68397e-28	1.000000
rad5	6.01738e-29	1.000000	6.01738e-29	1.000000
rad51	1.53728e-29	1.000000	1.53728e-29	1.000000

rad12	9.30880e-30	1.000000	9.30880e-30	1.000000
rad58	8.27189e-30	1.000000	8.27189e-30	1.000000
rad62	1.39694e-30	1.000000	1.39694e-30	1.000000
rad37	1.35658e-30	1.000000	1.35658e-30	1.000000
rad47	1.45632e-31	1.000000	1.45632e-31	1.000000
PAH1+H	1.03868e-32	1.000000	1.03868e-32	1.000000
PAH10+CH3	2.82249e-34	1.000000	2.82249e-34	1.000000
rad43	1.74410e-34	1.000000	1.74410e-34	1.000000
rad65	4.99043e-35	1.000000	4.99043e-35	1.000000
rad42	1.89314e-35	1.000000	1.89314e-35	1.000000
rad41	5.43586e-40	1.000000	5.43586e-40	1.000000

10000000.0 Pa, 250.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.21641e-16	(1.00)	1.21641e-16	(1.00)
Formation of rad11	9.54219e-17	(0.784)	9.54219e-17	(0.784)
Formation of rad6	2.24583e-17	(0.185)	2.24583e-17	(0.185)
H-abstraction	3.76121e-18	(0.0309)	3.76121e-18	(0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.784357	0.784357	0.784357	0.784357
rad6	0.184715	0.969073	0.184715	0.969073
Benzene+2-propynyl	0.0309205	0.999993	0.0309205	0.999993
rad21	5.86813e-06	0.999999	5.86813e-06	0.999999
rad13	1.27443e-07	0.999999	1.27443e-07	0.999999
rad20	1.26266e-07	0.999999	1.26266e-07	0.999999
rad22	4.90746e-08	0.999999	4.90746e-08	0.999999
rad7	4.43200e-08	0.999999	4.43200e-08	0.999999
rad25	6.96608e-09	0.999999	6.96608e-09	0.999999
rad45	4.23283e-09	0.999999	4.23283e-09	0.999999
rad24	3.04814e-09	0.999999	3.04814e-09	0.999999
PhCHCCH2+H	1.94033e-09	0.999999	1.94033e-09	0.999999
rad33	1.51606e-09	0.999999	1.51606e-09	0.999999
rad36	4.38010e-10	0.999999	4.38010e-10	0.999999
rad18	2.96880e-10	0.999999	2.96880e-10	0.999999
Phenyl+Allene	2.03114e-10	0.999999	0.00000	0.999999
rad9	1.62158e-10	0.999999	1.62158e-10	0.999999
C2H2+PhCH2	1.25257e-11	0.999999	1.25257e-11	0.999999
PhCH2CCH+H	6.81183e-12	0.999999	6.81183e-12	0.999999
Indene+H	4.68897e-12	0.999999	4.68897e-12	0.999999
rad23	1.26327e-12	0.999999	1.26327e-12	0.999999
rad3	1.11978e-12	0.999999	1.11978e-12	0.999999
rad4	7.32341e-13	0.999999	7.32341e-13	0.999999
rad28	1.09392e-13	0.999999	1.09392e-13	0.999999
rad8	1.86225e-16	0.999999	1.86225e-16	0.999999
rad2	6.87126e-17	0.999999	6.87126e-17	0.999999
PAH7+H	5.76625e-17	0.999999	5.76625e-17	0.999999
rad1	9.37011e-18	0.999999	9.37011e-18	0.999999
PhCCH+CH3	8.37229e-18	0.999999	8.37229e-18	0.999999
rad30	2.49136e-18	0.999999	2.49136e-18	0.999999
rad15	6.21764e-19	0.999999	6.21764e-19	0.999999
rad14	1.90533e-19	0.999999	1.90533e-19	0.999999
Ph+MeAc	5.12757e-20	0.999999	5.12757e-20	0.999999
rad38	2.96766e-20	0.999999	2.96766e-20	0.999999
rad31	1.99874e-20	0.999999	1.99874e-20	0.999999
rad26	4.05142e-21	0.999999	4.05142e-21	0.999999
rad60syn	1.13868e-21	0.999999	1.13868e-21	0.999999
rad46	7.65919e-22	0.999999	7.65919e-22	0.999999
rad10	4.93328e-22	0.999999	4.93328e-22	0.999999
rad60anti	4.60292e-22	0.999999	4.60292e-22	0.999999
rad54	1.69722e-22	0.999999	1.69722e-22	0.999999
PAH3+H	6.36485e-23	0.999999	6.36485e-23	0.999999
rad35	4.27852e-23	0.999999	4.27852e-23	0.999999
rad19syn	4.14542e-23	0.999999	4.14542e-23	0.999999
rad39	4.07842e-23	0.999999	4.07842e-23	0.999999
rad70	3.10562e-23	0.999999	3.10562e-23	0.999999
rad59	1.62076e-23	0.999999	1.62076e-23	0.999999
PAH9+H	9.69370e-24	0.999999	9.69370e-24	0.999999
PhCCCH3+H	9.22852e-24	0.999999	9.22852e-24	0.999999
rad27	3.22583e-24	0.999999	3.22583e-24	0.999999
rad55	3.69763e-25	0.999999	3.69763e-25	0.999999
rad50	3.50809e-25	0.999999	3.50809e-25	0.999999
rad34	1.15082e-25	0.999999	1.15082e-25	0.999999
PhcycC3H3_A+H	1.88636e-26	0.999999	1.88636e-26	0.999999
rad52	5.94909e-28	0.999999	5.94909e-28	0.999999
rad5	1.97608e-28	0.999999	1.97608e-28	0.999999
rad51	6.25854e-29	0.999999	6.25854e-29	0.999999

rad58	3.55430e-29	0.999999	3.55430e-29	0.999999
rad12	2.98619e-29	0.999999	2.98619e-29	0.999999
rad62	5.51319e-30	0.999999	5.51319e-30	0.999999
rad37	4.60865e-30	0.999999	4.60865e-30	0.999999
rad47	6.94989e-31	0.999999	6.94989e-31	0.999999
PAH1+H	4.21016e-32	0.999999	4.21016e-32	0.999999
PAH10+CH3	1.16792e-33	0.999999	1.16792e-33	0.999999
rad43	7.48893e-34	0.999999	7.48893e-34	0.999999
rad65	2.18447e-34	0.999999	2.18447e-34	0.999999
rad42	8.65164e-35	0.999999	8.65164e-35	0.999999
rad41	2.67448e-39	0.999999	2.67448e-39	0.999999

10000000.0 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.63720e-16 (1.00)	1.63720e-16 (1.00)
Formation of rad11	1.26419e-16 (0.772)	1.26419e-16 (0.772)
Formation of rad6	3.15515e-17 (0.193)	3.15515e-17 (0.193)
H-abstraction	5.75028e-18 (0.0351)	5.75028e-18 (0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.772057	0.772057	0.772057	0.772057
rad6	0.192812	0.964870	0.192812	0.964870
Benzene+2-propynyl	0.0351226	0.999992	0.0351226	0.999992
rad21	6.55711e-06	0.999999	6.55711e-06	0.999999
rad20	1.54805e-07	0.999999	1.54805e-07	0.999999
rad13	1.49750e-07	0.999999	1.49750e-07	0.999999
rad22	6.02331e-08	0.999999	6.02331e-08	0.999999
rad7	5.25525e-08	0.999999	5.25525e-08	0.999999
rad25	8.37989e-09	0.999999	8.37989e-09	0.999999
rad45	5.52999e-09	0.999999	5.52999e-09	0.999999
rad24	3.58762e-09	0.999999	3.58762e-09	0.999999
PhCHCCH2+H	2.55956e-09	0.999999	2.55956e-09	0.999999
rad33	1.81418e-09	0.999999	1.81418e-09	0.999999
rad36	5.70048e-10	0.999999	5.70048e-10	0.999999
rad18	4.06866e-10	0.999999	4.06866e-10	0.999999
Phenyl+Allene	3.01103e-10	0.999999	0.00000	0.999999
rad9	2.17214e-10	0.999999	2.17214e-10	0.999999
C2H2+PhCH2	1.93235e-11	0.999999	1.93235e-11	0.999999
PhCH2CCH+H	1.15993e-11	0.999999	1.15993e-11	0.999999
Indene+H	6.69433e-12	0.999999	6.69433e-12	0.999999
rad23	1.82578e-12	0.999999	1.82578e-12	0.999999
rad3	1.56322e-12	0.999999	1.56322e-12	0.999999
rad4	1.02158e-12	0.999999	1.02158e-12	0.999999
rad28	1.60554e-13	0.999999	1.60554e-13	0.999999
rad8	3.51923e-16	0.999999	3.51923e-16	0.999999
rad2	1.18797e-16	0.999999	1.18797e-16	0.999999
PAH7+H	1.17038e-16	0.999999	1.17038e-16	0.999999
PhCCH+CH3	1.68087e-17	0.999999	1.68087e-17	0.999999
rad1	1.61771e-17	0.999999	1.61771e-17	0.999999
rad30	4.69504e-18	0.999999	4.69504e-18	0.999999
rad15	1.20494e-18	0.999999	1.20494e-18	0.999999
rad14	3.60960e-19	0.999999	3.60960e-19	0.999999
Ph+MeAc	1.16506e-19	0.999999	1.16506e-19	0.999999
rad38	5.67342e-20	0.999999	5.67342e-20	0.999999
rad31	2.89339e-20	0.999999	2.89339e-20	0.999999
rad26	9.11086e-21	0.999999	9.11086e-21	0.999999
rad60syn	2.58296e-21	0.999999	2.58296e-21	0.999999
rad46	1.59429e-21	0.999999	1.59429e-21	0.999999
rad10	1.08669e-21	0.999999	1.08669e-21	0.999999
rad60anti	1.06160e-21	0.999999	1.06160e-21	0.999999
rad54	4.72939e-22	0.999999	4.72939e-22	0.999999
PAH3+H	1.75752e-22	0.999999	1.75752e-22	0.999999
rad19syn	1.09191e-22	0.999999	1.09191e-22	0.999999
rad35	1.07125e-22	0.999999	1.07125e-22	0.999999
rad70	1.04268e-22	0.999999	1.04268e-22	0.999999
rad39	9.29495e-23	0.999999	9.29495e-23	0.999999
rad59	4.39093e-23	0.999999	4.39093e-23	0.999999
PhCCCH3+H	2.38363e-23	0.999999	2.38363e-23	0.999999
PAH9+H	2.09208e-23	0.999999	2.09208e-23	0.999999
rad27	7.67777e-24	0.999999	7.67777e-24	0.999999
rad55	1.18225e-24	0.999999	1.18225e-24	0.999999
rad50	9.83731e-25	0.999999	9.83731e-25	0.999999
rad34	4.24439e-25	0.999999	4.24439e-25	0.999999
PhcycC3H3_A+H	6.17361e-26	0.999999	6.17361e-26	0.999999
rad52	1.97392e-27	0.999999	1.97392e-27	0.999999
rad5	6.14988e-28	0.999999	6.14988e-28	0.999999
rad51	2.33784e-28	0.999999	2.33784e-28	0.999999

rad58	1.36680e-28	0.999999	1.36680e-28	0.999999
rad12	9.05687e-29	0.999999	9.05687e-29	0.999999
rad62	1.97732e-29	0.999999	1.97732e-29	0.999999
rad37	1.46591e-29	0.999999	1.46591e-29	0.999999
rad47	2.96506e-30	0.999999	2.96506e-30	0.999999
PAH1+H	1.51940e-31	0.999999	1.51940e-31	0.999999
PAH10+CH3	4.35221e-33	0.999999	4.35221e-33	0.999999
rad43	2.91399e-33	0.999999	2.91399e-33	0.999999
rad65	8.63356e-34	0.999999	8.63356e-34	0.999999
rad42	3.50875e-34	0.999999	3.50875e-34	0.999999
rad41	1.16746e-38	0.999999	1.16746e-38	0.999999

10000000.0 Pa, 270.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.15887e-16	(1.00)	2.15887e-16	(1.00)
Formation of rad11	1.64133e-16	(0.760)	1.64133e-16	(0.760)
Formation of rad6	4.32452e-17	(0.200)	4.32452e-17	(0.200)
H-abstraction	8.50919e-18	(0.0394)	8.50919e-18	(0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.760156	0.760156	0.760156	0.760156
rad6	0.200421	0.960577	0.200421	0.960577
Benzene+2-propynyl	0.0394150	0.999992	0.0394150	0.999992
rad21	7.33898e-06	1.000000	7.33898e-06	1.000000
rad20	1.90187e-07	1.000000	1.90187e-07	1.000000
rad13	1.75447e-07	1.000000	1.75447e-07	1.000000
rad22	7.40923e-08	1.000000	7.40923e-08	1.000000
rad7	6.21619e-08	1.000000	6.21619e-08	1.000000
rad25	1.01054e-08	1.000000	1.01054e-08	1.000000
rad45	7.22806e-09	1.000000	7.22806e-09	1.000000
rad24	4.22010e-09	1.000000	4.22010e-09	1.000000
PhCHCCH2+H	3.38026e-09	1.000000	3.38026e-09	1.000000
rad33	2.16460e-09	1.000000	2.16460e-09	1.000000
rad36	7.42860e-10	1.000000	7.42860e-10	1.000000
rad18	5.59080e-10	1.000000	5.59080e-10	1.000000
Phenyl+Allene	4.43692e-10	1.000000	0.000000	1.000000
rad9	2.90952e-10	1.000000	2.90952e-10	1.000000
C2H2+PhCH2	2.98861e-11	1.000000	2.98861e-11	1.000000
PhCH2CCH+H	1.94214e-11	1.000000	1.94214e-11	1.000000
Indene+H	9.60815e-12	1.000000	9.60815e-12	1.000000
rad23	2.64897e-12	1.000000	2.64897e-12	1.000000
rad3	2.17967e-12	1.000000	2.17967e-12	1.000000
rad4	1.42386e-12	1.000000	1.42386e-12	1.000000
rad28	2.35300e-13	1.000000	2.35300e-13	1.000000
rad8	6.56005e-16	1.000000	6.56005e-16	1.000000
PAH7+H	2.32599e-16	1.000000	2.32599e-16	1.000000
rad2	2.05108e-16	1.000000	2.05108e-16	1.000000
PhCCH+CH3	3.34507e-17	1.000000	3.34507e-17	1.000000
rad1	2.79238e-17	1.000000	2.79238e-17	1.000000
rad30	8.83836e-18	1.000000	8.83836e-18	1.000000
rad15	2.32875e-18	1.000000	2.32875e-18	1.000000
rad14	6.80373e-19	1.000000	6.80373e-19	1.000000
Ph+MeAc	2.59183e-19	1.000000	2.59183e-19	1.000000
rad38	1.08546e-19	1.000000	1.08546e-19	1.000000
rad31	4.22604e-20	1.000000	4.22604e-20	1.000000
rad26	1.99201e-20	1.000000	1.99201e-20	1.000000
rad60syn	5.76321e-21	1.000000	5.76321e-21	1.000000
rad46	3.30564e-21	1.000000	3.30564e-21	1.000000
rad60anti	2.40357e-21	1.000000	2.40357e-21	1.000000
rad10	2.37171e-21	1.000000	2.37171e-21	1.000000
rad54	1.23230e-21	1.000000	1.23230e-21	1.000000
PAH3+H	4.65084e-22	1.000000	4.65084e-22	1.000000
rad70	3.19566e-22	1.000000	3.19566e-22	1.000000
rad19syn	2.71722e-22	1.000000	2.71722e-22	1.000000
rad35	2.61366e-22	1.000000	2.61366e-22	1.000000
rad39	2.06830e-22	1.000000	2.06830e-22	1.000000
rad59	1.14288e-22	1.000000	1.14288e-22	1.000000
PhCCCH3+H	5.99954e-23	1.000000	5.99954e-23	1.000000
PAH9+H	4.51068e-23	1.000000	4.51068e-23	1.000000
rad27	1.79740e-23	1.000000	1.79740e-23	1.000000
rad55	3.45464e-24	1.000000	3.45464e-24	1.000000
rad50	2.66262e-24	1.000000	2.66262e-24	1.000000
rad34	1.40806e-24	1.000000	1.40806e-24	1.000000
PhcycC3H3_A+H	1.84022e-25	1.000000	1.84022e-25	1.000000
rad52	6.16606e-27	1.000000	6.16606e-27	1.000000
rad5	1.81113e-27	1.000000	1.81113e-27	1.000000
rad51	8.06528e-28	1.000000	8.06528e-28	1.000000

rad58	4.75190e-28	1.00000	4.75190e-28	1.00000
rad12	2.59268e-28	1.00000	2.59268e-28	1.00000
rad62	6.49439e-29	1.00000	6.49439e-29	1.00000
rad37	4.36443e-29	1.00000	4.36443e-29	1.00000
rad47	1.14453e-29	1.00000	1.14453e-29	1.00000
PAH1+H	4.93954e-31	1.00000	4.93954e-31	1.00000
PAH10+CH3	1.47262e-32	1.00000	1.47262e-32	1.00000
rad43	1.03586e-32	1.00000	1.03586e-32	1.00000
rad65	3.11064e-33	1.00000	3.11064e-33	1.00000
rad42	1.27942e-33	1.00000	1.27942e-33	1.00000
rad41	4.58053e-38	1.00000	4.58053e-38	1.00000

10000000.0 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79491e-16 (1.00)	2.79491e-16 (1.00)
Formation of rad11	2.09281e-16 (0.749)	2.09281e-16 (0.749)
Formation of rad6	5.79792e-17 (0.207)	5.79792e-17 (0.207)
H-abstraction	1.22310e-17 (0.0438)	1.22310e-17 (0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.748667	0.748667	0.748667	0.748667
rad6	0.207563	0.956230	0.207563	0.956230
Benzene+2-propynyl	0.0437616	0.999991	0.0437616	0.999991
rad21	8.22688e-06	1.000000	8.22688e-06	1.000000
rad20	2.34097e-07	1.000000	2.34097e-07	1.000000
rad13	2.05050e-07	1.000000	2.05050e-07	1.000000
rad22	9.13277e-08	1.000000	9.13277e-08	1.000000
rad7	7.33841e-08	1.000000	7.33841e-08	1.000000
rad25	1.22118e-08	1.000000	1.22118e-08	1.000000
rad45	9.44913e-09	1.000000	9.44913e-09	1.000000
rad24	4.96016e-09	1.000000	4.96016e-09	1.000000
PhCHCCH2+H	4.46654e-09	1.000000	4.46654e-09	1.000000
rad33	2.57604e-09	1.000000	2.57604e-09	1.000000
rad36	9.69090e-10	1.000000	9.69090e-10	1.000000
rad18	7.69941e-10	1.000000	7.69941e-10	1.000000
Phenyl+Allene	6.49756e-10	1.000000	0.000000	1.000000
rad9	3.89495e-10	1.000000	3.89495e-10	1.000000
C2H2+PhCH2	4.62842e-11	1.000000	4.62842e-11	1.000000
PhCH2CCH+H	3.19996e-11	1.000000	3.19996e-11	1.000000
Indene+H	1.38559e-11	1.000000	1.38559e-11	1.000000
rad23	3.85591e-12	1.000000	3.85591e-12	1.000000
rad3	3.03547e-12	1.000000	3.03547e-12	1.000000
rad4	1.98281e-12	1.000000	1.98281e-12	1.000000
rad28	3.44203e-13	1.000000	3.44203e-13	1.000000
rad8	1.20530e-15	1.000000	1.20530e-15	1.000000
PAH7+H	4.52360e-16	1.000000	4.52360e-16	1.000000
rad2	3.53068e-16	1.000000	3.53068e-16	1.000000
PhCCH+CH3	6.57864e-17	1.000000	6.57864e-17	1.000000
rad1	4.81166e-17	1.000000	4.81166e-17	1.000000
rad30	1.65736e-17	1.000000	1.65736e-17	1.000000
rad15	4.47487e-18	1.000000	4.47487e-18	1.000000
rad14	1.27266e-18	1.000000	1.27266e-18	1.000000
Ph+MeAc	5.62837e-19	1.000000	5.62837e-19	1.000000
rad38	2.07403e-19	1.000000	2.07403e-19	1.000000
rad31	6.23041e-20	1.000000	6.23041e-20	1.000000
rad26	4.23118e-20	1.000000	4.23118e-20	1.000000
rad60syn	1.26047e-20	1.000000	1.26047e-20	1.000000
rad46	6.80935e-21	1.000000	6.80935e-21	1.000000
rad60anti	5.32426e-21	1.000000	5.32426e-21	1.000000
rad10	5.10636e-21	1.000000	5.10636e-21	1.000000
rad54	3.01379e-21	1.000000	3.01379e-21	1.000000
PAH3+H	1.17757e-21	1.000000	1.17757e-21	1.000000
rad70	9.01070e-22	1.000000	9.01070e-22	1.000000
rad19syn	6.40073e-22	1.000000	6.40073e-22	1.000000
rad35	6.18830e-22	1.000000	6.18830e-22	1.000000
rad39	4.47600e-22	1.000000	4.47600e-22	1.000000
rad59	2.85287e-22	1.000000	2.85287e-22	1.000000
PhCCCH3+H	1.46509e-22	1.000000	1.46509e-22	1.000000
PAH9+H	9.67130e-23	1.000000	9.67130e-23	1.000000
rad27	4.11929e-23	1.000000	4.11929e-23	1.000000
rad55	9.29765e-24	1.000000	9.29765e-24	1.000000
rad50	6.94814e-24	1.000000	6.94814e-24	1.000000
rad34	4.24595e-24	1.000000	4.24595e-24	1.000000
PhcycC3H3_A+H	5.03743e-25	1.000000	5.03743e-25	1.000000
rad52	1.81804e-26	1.000000	1.81804e-26	1.000000
rad5	5.04695e-27	1.000000	5.04695e-27	1.000000
rad51	2.58561e-27	1.000000	2.58561e-27	1.000000

rad58	1.50736e-27	1.00000	1.50736e-27	1.00000
rad12	7.00241e-28	1.00000	7.00241e-28	1.00000
rad62	1.96762e-28	1.00000	1.96762e-28	1.00000
rad37	1.21752e-28	1.00000	1.21752e-28	1.00000
rad47	4.03885e-29	1.00000	4.03885e-29	1.00000
PAH1+H	1.46150e-30	1.00000	1.46150e-30	1.00000
PAH10+CH3	4.55984e-32	1.00000	4.55984e-32	1.00000
rad43	3.38974e-32	1.00000	3.38974e-32	1.00000
rad65	1.03080e-32	1.00000	1.03080e-32	1.00000
rad42	4.24217e-33	1.00000	4.24217e-33	1.00000
rad41	1.63341e-37	1.00000	1.63341e-37	1.00000

10000000.0 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.55893e-16 (1.00)	3.55893e-16 (1.00)
Formation of rad11	2.62555e-16 (0.738)	2.62555e-16 (0.738)
Formation of rad6	7.62093e-17 (0.214)	7.62093e-17 (0.214)
H-abstraction	1.71289e-17 (0.0481)	1.71289e-17 (0.0481)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.737596	0.737596	0.737596	0.737596
rad6	0.214265	0.951861	0.214265	0.951861
Benzene+2-propynyl	0.0481294	0.999990	0.0481294	0.999990
rad21	9.23554e-06	1.000000	9.23554e-06	1.000000
rad20	2.88614e-07	1.000000	2.88614e-07	1.000000
rad13	2.39146e-07	1.000000	2.39146e-07	1.000000
rad22	1.12778e-07	1.000000	1.12778e-07	1.000000
rad7	8.64946e-08	1.000000	8.64946e-08	1.000000
rad25	1.47834e-08	1.000000	1.47834e-08	1.000000
rad45	1.23504e-08	1.000000	1.23504e-08	1.000000
PhCHCCH2+H	5.90154e-09	1.000000	5.90154e-09	1.000000
rad24	5.82406e-09	1.000000	5.82406e-09	1.000000
rad33	3.05848e-09	1.000000	3.05848e-09	1.000000
rad36	1.26519e-09	1.000000	1.26519e-09	1.000000
rad18	1.06209e-09	1.000000	1.06209e-09	1.000000
Phenyl+Allene	9.45354e-10	1.000000	0.000000	1.000000
rad9	5.20820e-10	1.000000	5.20820e-10	1.000000
C2H2+PhCH2	7.16787e-11	1.000000	7.16787e-11	1.000000
PhCH2CCH+H	5.19052e-11	1.000000	5.19052e-11	1.000000
Indene+H	2.00612e-11	1.000000	2.00612e-11	1.000000
rad23	5.62722e-12	1.000000	5.62722e-12	1.000000
rad3	4.22074e-12	1.000000	4.22074e-12	1.000000
rad4	2.75801e-12	1.000000	2.75801e-12	1.000000
rad28	5.02239e-13	1.000000	5.02239e-13	1.000000
rad8	2.18044e-15	1.000000	2.18044e-15	1.000000
PAH7+H	8.60110e-16	1.000000	8.60110e-16	1.000000
rad2	6.04699e-16	1.000000	6.04699e-16	1.000000
PhCCH+CH3	1.27458e-16	1.000000	1.27458e-16	1.000000
rad1	8.26051e-17	1.000000	8.26051e-17	1.000000
rad30	3.08626e-17	1.000000	3.08626e-17	1.000000
rad15	8.52160e-18	1.000000	8.52160e-18	1.000000
rad14	2.35565e-18	1.000000	2.35565e-18	1.000000
Ph+MeAc	1.18994e-18	1.000000	1.18994e-18	1.000000
rad38	3.94864e-19	1.000000	3.94864e-19	1.000000
rad31	9.27336e-20	1.000000	9.27336e-20	1.000000
rad26	8.72268e-20	1.000000	8.72268e-20	1.000000
rad60syn	2.69318e-20	1.000000	2.69318e-20	1.000000
rad46	1.38970e-20	1.000000	1.38970e-20	1.000000
rad60anti	1.15018e-20	1.000000	1.15018e-20	1.000000
rad10	1.08008e-20	1.000000	1.08008e-20	1.000000
rad54	6.94303e-21	1.000000	6.94303e-21	1.000000
PAH3+H	2.85001e-21	1.000000	2.85001e-21	1.000000
rad70	2.35380e-21	1.000000	2.35380e-21	1.000000
rad19syn	1.43009e-21	1.000000	1.43009e-21	1.000000
rad35	1.41723e-21	1.000000	1.41723e-21	1.000000
rad39	9.38968e-22	1.000000	9.38968e-22	1.000000
rad59	6.82150e-22	1.000000	6.82150e-22	1.000000
PhCCCH3+H	3.46007e-22	1.000000	3.46007e-22	1.000000
PAH9+H	2.05272e-22	1.000000	2.05272e-22	1.000000
rad27	9.20540e-23	1.000000	9.20540e-23	1.000000
rad55	2.32093e-23	1.000000	2.32093e-23	1.000000
rad50	1.74684e-23	1.000000	1.74684e-23	1.000000
rad34	1.17451e-23	1.000000	1.17451e-23	1.000000
PhcycC3H3_A+H	1.27578e-24	1.000000	1.27578e-24	1.000000
rad52	5.07337e-26	1.000000	5.07337e-26	1.000000
rad5	1.33215e-26	1.000000	1.33215e-26	1.000000
rad51	7.74665e-27	1.000000	7.74665e-27	1.000000

rad58	4.39862e-27	1.00000	4.39862e-27	1.00000
rad12	1.78557e-27	1.00000	1.78557e-27	1.00000
rad62	5.53643e-28	1.00000	5.53643e-28	1.00000
rad37	3.18876e-28	1.00000	3.18876e-28	1.00000
rad47	1.31461e-28	1.00000	1.31461e-28	1.00000
PAH1+H	3.97119e-30	1.00000	3.97119e-30	1.00000
PAH10+CH3	1.30154e-31	1.00000	1.30154e-31	1.00000
rad43	1.02836e-31	1.00000	1.02836e-31	1.00000
rad65	3.16688e-32	1.00000	3.16688e-32	1.00000
rad42	1.29156e-32	1.00000	1.29156e-32	1.00000
rad41	5.34498e-37	1.00000	5.34498e-37	1.00000

10000000.0 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34395e-16 (1.00)	6.34395e-16 (1.00)
Formation of rad11	4.51153e-16 (0.711)	4.51153e-16 (0.711)
Formation of rad6	1.51589e-16 (0.239)	1.51589e-16 (0.239)
H-abstraction	3.16530e-17 (0.0499)	3.16530e-17 (0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.710860	0.710860	0.710860	0.710860
rad6	0.239223	0.950083	0.239223	0.950083
Benzene+2-propynyl	0.00498949	0.999978	0.00498949	0.999978
rad21	2.00466e-05	0.999998	2.00466e-05	0.999998
rad20	1.14865e-06	0.999999	1.14865e-06	0.999999
rad22	5.07159e-07	1.000000	5.07159e-07	1.000000
rad13	4.27227e-07	1.000000	4.27227e-07	1.000000
rad7	1.62808e-07	1.000000	1.62808e-07	1.000000
rad45	7.85544e-08	1.000000	7.85544e-08	1.000000
rad25	4.48521e-08	1.000000	4.48521e-08	1.000000
PhCHCCH2+H	2.63142e-08	1.000000	2.63142e-08	1.000000
rad24	1.54300e-08	1.000000	1.54300e-08	1.000000
rad18	1.07579e-08	1.000000	1.07579e-08	1.000000
rad33	5.32819e-09	1.000000	5.32819e-09	1.000000
rad36	4.58361e-09	1.000000	4.58361e-09	1.000000
Phenyl+Allene	4.23574e-09	1.000000	0.000000	1.000000
rad9	2.56580e-09	1.000000	2.56580e-09	1.000000
C2H2+PhCH2	2.21180e-09	1.000000	2.21180e-09	1.000000
PhCH2CCH+H	6.06688e-10	1.000000	6.06688e-10	1.000000
Indene+H	3.61075e-10	1.000000	3.61075e-10	1.000000
rad23	1.00770e-10	1.000000	1.00770e-10	1.000000
rad3	2.07154e-11	1.000000	2.07154e-11	1.000000
rad4	1.33565e-11	1.000000	1.33565e-11	1.000000
rad28	3.25744e-12	1.000000	3.25744e-12	1.000000
rad15	3.51825e-13	1.000000	3.51825e-13	1.000000
PAH7+H	4.31887e-14	1.000000	4.31887e-14	1.000000
rad12	2.18840e-14	1.000000	2.18840e-14	1.000000
rad2	1.57658e-14	1.000000	1.57658e-14	1.000000
PhCCH+CH3	1.15046e-14	1.000000	1.15046e-14	1.000000
rad30	5.05461e-15	1.000000	5.05461e-15	1.000000
rad1	2.09680e-15	1.000000	2.09680e-15	1.000000
rad8	5.82999e-16	1.000000	5.82999e-16	1.000000
Ph+MeAc	2.74101e-16	1.000000	2.74101e-16	1.000000
rad19anti	2.68825e-16	1.000000	2.68825e-16	1.000000
rad38	1.40457e-16	1.000000	1.40457e-16	1.000000
rad14	1.21017e-16	1.000000	1.21017e-16	1.000000
rad60syn	1.69094e-17	1.000000	1.69094e-17	1.000000
rad26	1.30832e-17	1.000000	1.30832e-17	1.000000
rad46	1.28414e-17	1.000000	1.28414e-17	1.000000
PAH3+H	9.97572e-18	1.000000	9.97572e-18	1.000000
rad60anti	8.31402e-18	1.000000	8.31402e-18	1.000000
rad70	4.49793e-18	1.000000	4.49793e-18	1.000000
rad10	3.65199e-18	1.000000	3.65199e-18	1.000000
rad35	2.24755e-18	1.000000	2.24755e-18	1.000000
rad59	1.75007e-18	1.000000	1.75007e-18	1.000000
PAH9+H	1.10615e-18	1.000000	1.10615e-18	1.000000
PhCCCH3+H	7.97228e-19	1.000000	7.97228e-19	1.000000
rad54	7.94122e-19	1.000000	7.94122e-19	1.000000
rad31	7.06347e-19	1.000000	7.06347e-19	1.000000
rad50	4.43109e-19	1.000000	4.43109e-19	1.000000
rad19syn	1.56312e-19	1.000000	1.56312e-19	1.000000
rad34	1.51893e-19	1.000000	1.51893e-19	1.000000
rad39	1.38705e-19	1.000000	1.38705e-19	1.000000
rad27	6.15899e-20	1.000000	6.15899e-20	1.000000
rad51	1.39737e-20	1.000000	1.39737e-20	1.000000
rad52	1.20137e-20	1.000000	1.20137e-20	1.000000
rad55	8.86866e-21	1.000000	8.86866e-21	1.000000

PhcycC3H3_A+H	1.87695e-21	1.00000	1.87695e-21	1.00000
rad58	1.06220e-21	1.00000	1.06220e-21	1.00000
rad5	5.84325e-22	1.00000	5.84325e-22	1.00000
rad67	5.29070e-22	1.00000	5.29070e-22	1.00000
rad47	4.62891e-22	1.00000	4.62891e-22	1.00000
rad62	2.13249e-22	1.00000	2.13249e-22	1.00000
rad68syn	8.91479e-24	1.00000	8.91479e-24	1.00000
rad65	8.34296e-24	1.00000	8.34296e-24	1.00000
rad37	8.03173e-24	1.00000	8.03173e-24	1.00000
rad68anti	6.32152e-24	1.00000	6.32152e-24	1.00000
rad53	5.59451e-24	1.00000	5.59451e-24	1.00000
PAH1+H	2.99184e-24	1.00000	2.99184e-24	1.00000
rad73	2.39169e-24	1.00000	2.39169e-24	1.00000
rad42	1.63585e-24	1.00000	1.63585e-24	1.00000
rad43	1.63127e-24	1.00000	1.63127e-24	1.00000
PAH10+CH3	1.26878e-24	1.00000	1.26878e-24	1.00000
rad71	1.01596e-24	1.00000	1.01596e-24	1.00000
rad56	1.92460e-25	1.00000	1.92460e-25	1.00000
PAH8+H	1.57601e-25	1.00000	1.57601e-25	1.00000
rad40syn	1.43220e-25	1.00000	1.43220e-25	1.00000
rad40anti	3.29733e-26	1.00000	3.29733e-26	1.00000
rad41	1.23444e-26	1.00000	1.23444e-26	1.00000
rad64	6.40272e-27	1.00000	6.40272e-27	1.00000
rad72	2.34218e-27	1.00000	2.34218e-27	1.00000
rad61	2.82334e-28	1.00000	2.82334e-28	1.00000

10000000.0 Pa, 400.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	5.11288e-15	(1.00)	5.11288e-15	(1.00)
Formation of rad11	3.08094e-15	(0.603)	3.08094e-15	(0.603)
Formation of rad6	1.54092e-15	(0.301)	1.54092e-15	(0.301)
H-abstraction	4.91025e-16	(0.0960)	4.91025e-16	(0.0960)
species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.601771	0.601771	0.601771	0.601771
rad6	0.302115	0.903886	0.302115	0.903886
Benzene+2-propynyl	0.0960368	0.999923	0.0960368	0.999923
rad21	5.99856e-05	0.999983	5.99856e-05	0.999983
rad20	7.99224e-06	0.999991	7.99224e-06	0.999991
rad22	3.88845e-06	0.999995	3.88845e-06	0.999995
rad13	1.79736e-06	0.999997	1.79736e-06	0.999997
rad7	8.32311e-07	0.999998	8.32311e-07	0.999998
rad45	8.29243e-07	0.999998	8.29244e-07	0.999998
PhCHCCH2+H	3.10391e-07	0.999999	3.10391e-07	0.999999
rad25	2.68881e-07	0.999999	2.68881e-07	0.999999
rad18	2.06814e-07	0.999999	2.06814e-07	0.999999
C2H2+PhCH2	1.03236e-07	0.999999	1.03236e-07	0.999999
Phenyl+Allene	9.43078e-08	0.999999	0.00000	0.999999
rad24	5.58809e-08	1.000000	5.58810e-08	0.999999
rad36	4.72825e-08	1.000000	4.72826e-08	0.999999
rad9	3.22050e-08	1.000000	3.22050e-08	1.000000
rad33	2.43753e-08	1.000000	2.43753e-08	1.000000
PhCH2CCH+H	2.23516e-08	1.000000	2.23516e-08	1.000000
Indene+H	1.57392e-08	1.000000	1.57392e-08	1.000000
rad23	8.09413e-09	1.000000	8.09413e-09	1.000000
rad3	4.36556e-10	1.000000	4.36556e-10	1.000000
rad4	2.93140e-10	1.000000	2.93140e-10	1.000000
rad28	1.02989e-10	1.000000	1.02989e-10	1.000000
rad15	1.58946e-11	1.000000	1.58946e-11	1.000000
PhCCH+CH3	1.32217e-11	1.000000	1.32217e-11	1.000000
PAH7+H	5.53968e-12	1.000000	5.53968e-12	1.000000
rad2	4.37366e-12	1.000000	4.37366e-12	1.000000
rad38	2.32212e-12	1.000000	2.32212e-12	1.000000
PAH9+H	1.50060e-12	1.000000	1.50060e-12	1.000000
rad30	9.80963e-13	1.000000	9.80963e-13	1.000000
Ph+MeAc	7.63597e-13	1.000000	7.63597e-13	1.000000
rad1	6.82843e-13	1.000000	6.82843e-13	1.000000
rad46	6.00910e-13	1.000000	6.00910e-13	1.000000
rad50	3.00841e-13	1.000000	3.00841e-13	1.000000
rad12	2.85937e-13	1.000000	2.85937e-13	1.000000
rad35	2.36185e-13	1.000000	2.36185e-13	1.000000
rad39	9.65008e-14	1.000000	9.65008e-14	1.000000
rad51	6.34645e-14	1.000000	6.34645e-14	1.000000
rad14	6.16415e-14	1.000000	6.16415e-14	1.000000
rad19anti	3.06676e-14	1.000000	3.06676e-14	1.000000
rad10	2.89674e-14	1.000000	2.89674e-14	1.000000
PhCCCH3+H	2.71638e-14	1.000000	2.71638e-14	1.000000

rad52	2.21862e-14	1.000000	2.21862e-14	1.000000
rad26	1.54850e-14	1.000000	1.54850e-14	1.000000
PAH3+H	1.24328e-14	1.000000	1.24328e-14	1.000000
rad8	9.00692e-15	1.000000	9.00693e-15	1.000000
rad60syn	7.18351e-15	1.000000	7.18351e-15	1.000000
rad60anti	3.77177e-15	1.000000	3.77177e-15	1.000000
rad70	2.99247e-15	1.000000	2.99247e-15	1.000000
rad59	1.71168e-15	1.000000	1.71168e-15	1.000000
PAH10+CH3	1.70332e-15	1.000000	1.70332e-15	1.000000
PAH1+H	1.00901e-15	1.000000	1.00901e-15	1.000000
rad71	9.92642e-16	1.000000	9.92642e-16	1.000000
rad37	9.58255e-16	1.000000	9.58255e-16	1.000000
rad65	9.10897e-16	1.000000	9.10897e-16	1.000000
rad73	8.25186e-16	1.000000	8.25186e-16	1.000000
rad54	4.35067e-16	1.000000	4.35068e-16	1.000000
rad27	3.20242e-16	1.000000	3.20242e-16	1.000000
rad19syn	2.03861e-16	1.000000	2.03861e-16	1.000000
rad34	1.97106e-16	1.000000	1.97106e-16	1.000000
rad31	1.13171e-16	1.000000	1.13171e-16	1.000000
rad67	9.67105e-17	1.000000	9.67105e-17	1.000000
PhcycC3H3_A+H	5.18988e-17	1.000000	5.18988e-17	1.000000
rad58	4.47049e-17	1.000000	4.47049e-17	1.000000
rad47	3.48569e-17	1.000000	3.48569e-17	1.000000
rad5	3.34318e-17	1.000000	3.34318e-17	1.000000
rad72	2.53189e-17	1.000000	2.53189e-17	1.000000
rad62	2.50510e-17	1.000000	2.50510e-17	1.000000
rad64	1.79254e-17	1.000000	1.79254e-17	1.000000
rad55	1.13136e-17	1.000000	1.13136e-17	1.000000
PAH8+H	9.53410e-18	1.000000	9.53410e-18	1.000000
rad68syn	3.34004e-18	1.000000	3.34005e-18	1.000000
rad61	2.88848e-18	1.000000	2.88848e-18	1.000000
rad68anti	2.17923e-18	1.000000	2.17923e-18	1.000000
rad43	2.01003e-18	1.000000	2.01003e-18	1.000000
rad40syn	1.17141e-18	1.000000	1.17141e-18	1.000000
rad42	8.95205e-19	1.000000	8.95205e-19	1.000000
rad53	7.52674e-19	1.000000	7.52674e-19	1.000000
rad56	6.92417e-19	1.000000	6.92417e-19	1.000000
rad40anti	6.83831e-19	1.000000	6.83831e-19	1.000000
rad41	9.57975e-20	1.000000	9.57975e-20	1.000000

10000000.0 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.11551e-14 (1.00)	2.11551e-14 (1.00)
Formation of rad11	1.10850e-14 (0.524)	1.10850e-14 (0.524)
Formation of rad6	7.08033e-15 (0.335)	7.08032e-15 (0.335)
H-abstraction	2.98976e-15 (0.141)	2.98976e-15 (0.141)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.521652	0.521652	0.521653	0.521653
rad6	0.336751	0.858404	0.336752	0.858405
Benzene+2-propynyl	0.141326	0.999730	0.141326	0.999731
rad21	0.000166891	0.999896	0.000166891	0.999898
rad20	4.46761e-05	0.999941	4.46762e-05	0.999943
rad22	2.73017e-05	0.999968	2.73017e-05	0.999970
rad45	6.52024e-06	0.999975	6.52026e-06	0.999977
rad13	5.92909e-06	0.999981	5.92910e-06	0.999983
rad7	3.87890e-06	0.999985	3.87891e-06	0.999986
C2H2+PhCH2	3.30073e-06	0.999988	3.30073e-06	0.999990
PhCHCCH2+H	3.11949e-06	0.999991	3.11949e-06	0.999993
rad18	2.83979e-06	0.999994	2.83980e-06	0.999996
Phenyl+Allene	1.48205e-06	0.999995	0.00000	0.999996
rad25	1.43822e-06	0.999997	1.43823e-06	0.999997
Indene+H	9.16068e-07	0.999998	9.16068e-07	0.999998
rad23	6.55249e-07	0.999998	6.55251e-07	0.999999
PhCH2CCH+H	5.13339e-07	0.999999	5.13339e-07	0.999999
rad36	4.00444e-07	0.999999	4.00444e-07	1.000000
rad9	3.35165e-07	1.000000	3.35165e-07	1.000000
rad24	1.92431e-07	1.000000	1.92431e-07	1.000000
rad33	7.91744e-08	1.000000	7.91745e-08	1.000000
PAH9+H	1.64399e-08	1.000000	1.64399e-08	1.000000
rad38	9.87621e-09	1.000000	9.87621e-09	1.000000
rad3	4.73920e-09	1.000000	4.73921e-09	1.000000
PAH7+H	3.88890e-09	1.000000	3.88891e-09	1.000000
rad50	3.63724e-09	1.000000	3.63725e-09	1.000000
rad46	3.48739e-09	1.000000	3.48740e-09	1.000000
PhCCH+CH3	3.40835e-09	1.000000	3.40836e-09	1.000000
rad4	3.31982e-09	1.000000	3.31983e-09	1.000000

rad28	2.63258e-09	1.00000	2.63258e-09	1.00000
rad35	2.31177e-09	1.00000	2.31177e-09	1.00000
rad39	1.63767e-09	1.00000	1.63767e-09	1.00000
rad51	1.15003e-09	1.00000	1.15003e-09	1.00000
rad15	6.03582e-10	1.00000	6.03583e-10	1.00000
Ph+MeAc	4.20458e-10	1.00000	4.20458e-10	1.00000
rad52	3.28774e-10	1.00000	3.28773e-10	1.00000
rad2	2.98425e-10	1.00000	2.98425e-10	1.00000
rad30	1.56070e-10	1.00000	1.56070e-10	1.00000
PAH3+H	1.00834e-10	1.00000	1.00835e-10	1.00000
rad19anti	7.75296e-11	1.00000	7.75298e-11	1.00000
PAH10+CH3	6.75401e-11	1.00000	6.75402e-11	1.00000
rad1	5.70555e-11	1.00000	5.70555e-11	1.00000
PhCCCH3+H	5.45566e-11	1.00000	5.45567e-11	1.00000
rad71	4.15127e-11	1.00000	4.15128e-11	1.00000
PAH1+H	3.82849e-11	1.00000	3.82849e-11	1.00000
rad26	3.46272e-11	1.00000	3.46273e-11	1.00000
rad73	2.98758e-11	1.00000	2.98758e-11	1.00000
rad37	2.70229e-11	1.00000	2.70230e-11	1.00000
rad65	2.49966e-11	1.00000	2.49966e-11	1.00000
rad10	2.00676e-11	1.00000	2.00677e-11	1.00000
rad59	9.39115e-12	1.00000	9.39115e-12	1.00000
rad19syn	9.36273e-12	1.00000	9.36272e-12	1.00000
rad60syn	7.93859e-12	1.00000	7.93860e-12	1.00000
rad70	6.86408e-12	1.00000	6.86409e-12	1.00000
PhcycC3H3_A+H	5.52925e-12	1.00000	5.52926e-12	1.00000
rad67	5.10190e-12	1.00000	5.10191e-12	1.00000
rad60anti	4.89791e-12	1.00000	4.89792e-12	1.00000
rad14	4.64376e-12	1.00000	4.64377e-12	1.00000
rad54	4.45422e-12	1.00000	4.45423e-12	1.00000
rad12	4.13483e-12	1.00000	4.13483e-12	1.00000
rad34	1.70945e-12	1.00000	1.70945e-12	1.00000
rad72	1.37088e-12	1.00000	1.37089e-12	1.00000
rad58	1.18555e-12	1.00000	1.18556e-12	1.00000
rad47	8.64814e-13	1.00000	8.64814e-13	1.00000
rad64	7.43927e-13	1.00000	7.43928e-13	1.00000
PAH8+H	5.13814e-13	1.00000	5.13814e-13	1.00000
rad62	3.20519e-13	1.00000	3.20520e-13	1.00000
rad55	3.17829e-13	1.00000	3.17830e-13	1.00000
rad61	1.53655e-13	1.00000	1.53655e-13	1.00000
rad68syn	1.46937e-13	1.00000	1.46937e-13	1.00000
rad8	1.08782e-13	1.00000	1.08783e-13	1.00000
rad68anti	9.54322e-14	1.00000	9.54322e-14	1.00000
rad56	8.51497e-14	1.00000	8.51499e-14	1.00000
rad53	8.26726e-14	1.00000	8.26727e-14	1.00000
rad40syn	5.87335e-14	1.00000	5.87337e-14	1.00000
rad27	5.60731e-14	1.00000	5.60732e-14	1.00000
rad43	5.27083e-14	1.00000	5.27083e-14	1.00000
rad40anti	3.54244e-14	1.00000	3.54245e-14	1.00000
rad42	2.97352e-14	1.00000	2.97353e-14	1.00000
rad5	2.37041e-14	1.00000	2.37042e-14	1.00000
rad31	2.24634e-14	1.00000	2.24634e-14	1.00000
rad41	4.64646e-15	1.00000	4.64646e-15	1.00000

10000000.0 Pa, 600.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.08120e-14 (1.00)	6.08108e-14 (1.00)
Formation of rad11	2.83304e-14 (0.466)	2.83298e-14 (0.466)
Formation of rad6	2.13840e-14 (0.352)	2.13835e-14 (0.352)
H-abstraction	1.10975e-14 (0.182)	1.10975e-14 (0.182)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.459205	0.459205	0.459214	0.459214
rad6	0.357359	0.816564	0.357366	0.816580
Benzene+2-propynyl	0.182488	0.999053	0.182492	0.999071
rad21	0.000389280	0.999442	0.000389288	0.999461
rad20	0.000163227	0.999605	0.000163230	0.999624
rad22	0.000152698	0.999758	0.000152701	0.999777
C2H2+PhCH2	5.77270e-05	0.999815	5.77280e-05	0.999834
rad45	3.44520e-05	0.999850	3.44527e-05	0.999869
PhCHCCH2+H	2.63608e-05	0.999876	2.63613e-05	0.999895
Indene+H	2.24422e-05	0.999899	2.24426e-05	0.999918
rad18	2.10570e-05	0.999920	2.10574e-05	0.999939
Phenyl+Allene	1.91754e-05	0.999939	0.00000	0.999939
rad7	1.63382e-05	0.999955	1.63385e-05	0.999955
rad13	1.46002e-05	0.999970	1.46005e-05	0.999970
PhCH2CCH+H	8.76054e-06	0.999979	8.76075e-06	0.999978

rad23	7.30358e-06	0.999986	7.30372e-06	0.999986
rad25	5.90220e-06	0.999992	5.90230e-06	0.999991
rad9	2.87338e-06	0.999995	2.87344e-06	0.999994
rad36	2.43686e-06	0.999997	2.43691e-06	0.999997
rad24	7.34439e-07	0.999998	7.34453e-07	0.999998
PAH9+H	5.82629e-07	0.999998	5.82641e-07	0.999998
rad38	3.24882e-07	0.999999	3.24888e-07	0.999998
PhCCH+CH3	2.14964e-07	0.999999	2.14968e-07	0.999999
rad33	1.88964e-07	0.999999	1.88967e-07	0.999999
PAH7+H	1.78565e-07	0.999999	1.78568e-07	0.999999
rad50	1.32706e-07	0.999999	1.32709e-07	0.999999
rad46	1.18529e-07	1.000000	1.18531e-07	0.999999
rad35	8.09139e-08	1.000000	8.09154e-08	0.999999
rad39	6.59618e-08	1.000000	6.59631e-08	0.999999
rad28	5.52919e-08	1.000000	5.52930e-08	0.999999
rad51	4.34112e-08	1.000000	4.34121e-08	1.000000
Ph+MeAc	3.63704e-08	1.000000	3.63711e-08	1.000000
rad3	2.38831e-08	1.000000	2.38836e-08	1.000000
rad4	1.71919e-08	1.000000	1.71923e-08	1.000000
rad15	1.42582e-08	1.000000	1.42585e-08	1.000000
rad52	1.21829e-08	1.000000	1.21831e-08	1.000000
rad19anti	6.84122e-09	1.000000	6.84135e-09	1.000000
rad30	6.49700e-09	1.000000	6.49713e-09	1.000000
rad19syn	5.29015e-09	1.000000	5.29025e-09	1.000000
PAH3+H	4.24461e-09	1.000000	4.24469e-09	1.000000
PhcycC3H3_A+H	3.82039e-09	1.000000	3.82046e-09	1.000000
PhCCCH3+H	3.26828e-09	1.000000	3.26834e-09	1.000000
PAH10+CH3	2.89858e-09	1.000000	2.89864e-09	1.000000
rad2	2.61649e-09	1.000000	2.61654e-09	1.000000
rad54	2.42886e-09	1.000000	2.42891e-09	1.000000
PAH1+H	1.96469e-09	1.000000	1.96473e-09	1.000000
rad71	1.51494e-09	1.000000	1.51497e-09	1.000000
rad37	1.12109e-09	1.000000	1.12111e-09	1.000000
rad73	1.09314e-09	1.000000	1.09316e-09	1.000000
rad47	1.00580e-09	1.000000	1.00581e-09	1.000000
rad65	9.84063e-10	1.000000	9.84084e-10	1.000000
rad26	9.57077e-10	1.000000	9.57098e-10	1.000000
rad70	5.75980e-10	1.000000	5.75991e-10	1.000000
rad1	5.62276e-10	1.000000	5.62287e-10	1.000000
rad10	4.17504e-10	1.000000	4.17512e-10	1.000000
rad67	4.00826e-10	1.000000	4.00834e-10	1.000000
rad59	3.98557e-10	1.000000	3.98566e-10	1.000000
rad60syn	3.51416e-10	1.000000	3.51423e-10	1.000000
rad60anti	2.15880e-10	1.000000	2.15883e-10	1.000000
rad55	1.86940e-10	1.000000	1.86943e-10	1.000000
rad34	1.42741e-10	1.000000	1.42743e-10	1.000000
rad12	9.22734e-11	1.000000	9.22746e-11	1.000000
rad56	6.65375e-11	1.000000	6.65388e-11	1.000000
rad53	5.99980e-11	1.000000	5.99991e-11	1.000000
rad72	5.02200e-11	1.000000	5.02210e-11	1.000000
rad58	4.95787e-11	1.000000	4.95797e-11	1.000000
rad14	3.91192e-11	1.000000	3.91199e-11	1.000000
rad64	3.81180e-11	1.000000	3.81187e-11	1.000000
PAH8+H	3.79595e-11	1.000000	3.79603e-11	1.000000
rad62	3.48531e-11	1.000000	3.48538e-11	1.000000
rad68syn	1.14048e-11	1.000000	1.14050e-11	1.000000
rad68anti	7.41414e-12	1.000000	7.41429e-12	1.000000
rad61	6.79470e-12	1.000000	6.79483e-12	1.000000
rad40syn	4.41685e-12	1.000000	4.41694e-12	1.000000
rad43	3.40617e-12	1.000000	3.40624e-12	1.000000
rad42	3.15946e-12	1.000000	3.15952e-12	1.000000
rad40anti	2.64066e-12	1.000000	2.64071e-12	1.000000
rad31	1.54848e-12	1.000000	1.54851e-12	1.000000
rad8	1.39740e-12	1.000000	1.39742e-12	1.000000
rad5	5.09918e-13	1.000000	5.09928e-13	1.000000
rad27	4.34265e-13	1.000000	4.34273e-13	1.000000
rad41	2.98614e-13	1.000000	2.98619e-13	1.000000

10000000.0 Pa, 700.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.39564e-13	(1.00)	1.39538e-13	(1.00)
Formation of rad11	5.88273e-14	(0.422)	5.88136e-14	(0.421)
Formation of rad6	5.01684e-14	(0.359)	5.01567e-14	(0.359)
H-abstraction	3.05678e-14	(0.219)	3.05678e-14	(0.219)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.402838	0.402838	0.402912	0.402912

rad6	0.374795	0.777633	0.374864	0.777776
Benzene+2-propynyl	0.219024	0.996657	0.219064	0.996840
rad21	0.000758314	0.997416	0.000758453	0.997599
rad22	0.000597733	0.998013	0.000597843	0.998197
C2H2+PhCH2	0.000514401	0.998528	0.000514495	0.998711
rad20	0.000362845	0.998891	0.000362912	0.999074
Indene+H	0.000205565	0.999096	0.000205602	0.999280
PhCHCCH2+H	0.000189141	0.999285	0.000189175	0.999469
Phenyl+Allene	0.000182812	0.999468	0.000000	0.999469
rad45	0.000158415	0.999627	0.000158444	0.999627
PhCH2CCH+H	9.83155e-05	0.999725	9.83331e-05	0.999726
rad18	7.17093e-05	0.999797	7.17225e-05	0.999797
rad7	6.07287e-05	0.999857	6.07398e-05	0.999858
rad23	4.56362e-05	0.999903	4.56445e-05	0.999904
rad13	2.82163e-05	0.999931	2.82215e-05	0.999932
rad9	1.83054e-05	0.999950	1.83088e-05	0.999950
rad25	1.72311e-05	0.999967	1.72342e-05	0.999967
rad36	1.37317e-05	0.999981	1.37342e-05	0.999981
PAH9+H	3.94464e-06	0.999984	3.94536e-06	0.999985
rad24	3.27525e-06	0.999988	3.27585e-06	0.999988
PhCCH+CH3	2.62662e-06	0.999990	2.62709e-06	0.999991
rad38	2.15899e-06	0.999993	2.15939e-06	0.999993
PAH7+H	1.69918e-06	0.999994	1.69950e-06	0.999995
rad50	8.98278e-07	0.999995	8.98435e-07	0.999996
rad46	7.93370e-07	0.999996	7.93517e-07	0.999997
rad35	5.52333e-07	0.999996	5.52434e-07	0.999997
Ph+MeAc	4.98250e-07	0.999997	4.98341e-07	0.999998
rad39	4.91687e-07	0.999997	4.91777e-07	0.999998
rad28	4.68364e-07	0.999998	4.68450e-07	0.999999
rad33	4.22310e-07	0.999998	4.22388e-07	0.999999
rad51	2.95230e-07	0.999999	2.95284e-07	0.999999
rad19anti	2.76763e-07	0.999999	2.76813e-07	1.000000
rad15	1.18980e-07	0.999999	1.19002e-07	1.000000
rad30	9.23980e-08	0.999999	9.24144e-08	1.000000
rad19syn	8.79308e-08	0.999999	8.79466e-08	1.000000
rad52	8.25374e-08	0.999999	8.25519e-08	1.000000
rad3	7.01112e-08	0.999999	7.01241e-08	1.000000
PhcycC3H3_A+H	6.71122e-08	0.999999	6.71245e-08	1.000000
rad4	5.23666e-08	0.999999	5.23762e-08	1.000000
PhCCCH3+H	4.39371e-08	1.000000	4.39451e-08	1.000000
rad54	3.99567e-08	1.000000	3.99640e-08	1.000000
PAH3+H	3.91411e-08	1.000000	3.91482e-08	1.000000
rad47	2.76627e-08	1.000000	2.76678e-08	1.000000
PAH10+CH3	2.37440e-08	1.000000	2.37483e-08	1.000000
PAH1+H	1.85927e-08	1.000000	1.85961e-08	1.000000
rad67	1.66117e-08	1.000000	1.66148e-08	1.000000
rad2	1.27902e-08	1.000000	1.27925e-08	1.000000
rad71	9.43489e-09	1.000000	9.43667e-09	1.000000
rad37	9.20294e-09	1.000000	9.20465e-09	1.000000
rad26	7.88676e-09	1.000000	7.88823e-09	1.000000
rad70	7.88059e-09	1.000000	7.88198e-09	1.000000
rad73	6.83248e-09	1.000000	6.83373e-09	1.000000
rad65	6.81283e-09	1.000000	6.81408e-09	1.000000
rad60syn	4.23336e-09	1.000000	4.23414e-09	1.000000
rad59	3.91366e-09	1.000000	3.91438e-09	1.000000
rad55	3.13729e-09	1.000000	3.13786e-09	1.000000
rad1	2.96442e-09	1.000000	2.96496e-09	1.000000
rad12	2.67135e-09	1.000000	2.67184e-09	1.000000
rad60anti	2.54725e-09	1.000000	2.54772e-09	1.000000
rad10	2.46261e-09	1.000000	2.46306e-09	1.000000
rad34	1.79989e-09	1.000000	1.80022e-09	1.000000
rad56	1.23286e-09	1.000000	1.23309e-09	1.000000
rad53	1.07950e-09	1.000000	1.07969e-09	1.000000
rad62	4.90558e-10	1.000000	4.90648e-10	1.000000
PAH8+H	4.45226e-10	1.000000	4.45307e-10	1.000000
rad58	3.90295e-10	1.000000	3.90366e-10	1.000000
rad64	3.59709e-10	1.000000	3.59775e-10	1.000000
rad72	3.14056e-10	1.000000	3.14113e-10	1.000000
rad14	1.45537e-10	1.000000	1.45563e-10	1.000000
rad68syn	1.32975e-10	1.000000	1.33000e-10	1.000000
rad68anti	8.64517e-11	1.000000	8.64675e-11	1.000000
rad61	5.57133e-11	1.000000	5.57235e-11	1.000000
rad40syn	5.16822e-11	1.000000	5.16917e-11	1.000000
rad43	4.57595e-11	1.000000	4.57678e-11	1.000000
rad42	4.57433e-11	1.000000	4.57517e-11	1.000000
rad31	3.79367e-11	1.000000	3.79436e-11	1.000000
rad40anti	3.09730e-11	1.000000	3.09787e-11	1.000000
rad8	2.52697e-11	1.000000	2.52744e-11	1.000000
rad5	5.04052e-12	1.000000	5.04144e-12	1.000000
rad41	4.13298e-12	1.000000	4.13373e-12	1.000000

rad27 | 1.50372e-12 1.000000 | 1.50400e-12 1.00000

10000000.0 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.75392e-13 (1.00)	2.75062e-13 (1.00)
Formation of rad11	1.06471e-13 (0.387)	1.06300e-13 (0.386)
Formation of rad6	9.97133e-14 (0.362)	9.95537e-14 (0.362)
H-abstraction	6.92082e-14 (0.251)	6.92082e-14 (0.252)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.399224	0.399224	0.399703	0.399703
rad11	0.338040	0.737264	0.338445	0.738148
Benzene+2-propynyl	0.251308	0.988571	0.251609	0.989757
C2H2+PhCH2	0.00245937	0.991031	0.00246233	0.992219
rad21	0.00142480	0.992455	0.00142651	0.993646
rad22	0.00141069	0.993866	0.00141238	0.995058
Phenyl+Allene	0.00119800	0.995064	0.000000	0.995058
PhCHCCH2+H	0.00110455	0.996169	0.00110587	0.996164
Indene+H	0.00107978	0.997248	0.00108107	0.997245
PhCH2CCH+H	0.000785738	0.998034	0.000786679	0.998032
rad20	0.000587410	0.998622	0.000588114	0.998620
rad45	0.000561687	0.999183	0.000562360	0.999182
rad7	0.000194677	0.999378	0.000194911	0.999377
rad23	0.000192323	0.999570	0.000192553	0.999570
rad18	0.000109944	0.999680	0.000110076	0.999680
rad9	8.75678e-05	0.999768	8.76732e-05	0.999767
rad36	5.88607e-05	0.999827	5.89313e-05	0.999826
rad13	5.26050e-05	0.999879	5.26682e-05	0.999879
rad25	3.70436e-05	0.999916	3.70880e-05	0.999916
PAH9+H	1.51627e-05	0.999931	1.51809e-05	0.999931
rad24	1.32230e-05	0.999945	1.32389e-05	0.999944
PhCCH+CH3	1.26859e-05	0.999957	1.27011e-05	0.999957
PAH7+H	8.51263e-06	0.999966	8.52282e-06	0.999966
rad38	8.19541e-06	0.999974	8.20528e-06	0.999974
rad50	3.47354e-06	0.999978	3.47770e-06	0.999977
rad19anti	3.35312e-06	0.999981	3.35715e-06	0.999981
rad46	3.03104e-06	0.999984	3.03467e-06	0.999984
rad28	2.83385e-06	0.999987	2.83724e-06	0.999987
Ph+MeAc	2.80128e-06	0.999990	2.80465e-06	0.999989
rad35	2.19133e-06	0.999992	2.19395e-06	0.999992
rad39	1.93121e-06	0.999994	1.93353e-06	0.999993
rad33	1.25574e-06	0.999995	1.25725e-06	0.999995
rad51	1.14829e-06	0.999996	1.14967e-06	0.999996
rad30	6.54215e-07	0.999997	6.55000e-07	0.999997
rad19syn	3.68362e-07	0.999997	3.68804e-07	0.999997
rad15	3.53752e-07	0.999997	3.54177e-07	0.999997
PhCCCH3+H	3.37721e-07	0.999998	3.38126e-07	0.999998
rad52	3.19687e-07	0.999998	3.20070e-07	0.999998
PAH3+H	2.83105e-07	0.999998	2.83444e-07	0.999998
PhcycC3H3_A+H	2.82762e-07	0.999999	2.83101e-07	0.999998
rad67	2.39117e-07	0.999999	2.39404e-07	0.999999
rad3	1.97087e-07	0.999999	1.97322e-07	0.999999
rad54	1.67363e-07	0.999999	1.67565e-07	0.999999
rad47	1.65373e-07	0.999999	1.65571e-07	0.999999
rad4	1.54287e-07	1.000000	1.54472e-07	0.999999
PAH10+CH3	1.23081e-07	1.000000	1.23229e-07	1.000000
PAH1+H	7.62768e-08	1.000000	7.63680e-08	1.000000
rad70	7.16406e-08	1.000000	7.17265e-08	1.000000
rad2	6.15830e-08	1.000000	6.16569e-08	1.000000
rad12	6.08222e-08	1.000000	6.08951e-08	1.000000
rad37	4.72725e-08	1.000000	4.73292e-08	1.000000
rad26	4.03317e-08	1.000000	4.03801e-08	1.000000
rad71	3.63866e-08	1.000000	3.64302e-08	1.000000
rad60syn	3.43204e-08	1.000000	3.43616e-08	1.000000
rad59	2.98958e-08	1.000000	2.99317e-08	1.000000
rad65	2.67824e-08	1.000000	2.68145e-08	1.000000
rad73	2.62264e-08	1.000000	2.62579e-08	1.000000
rad60anti	2.06334e-08	1.000000	2.06581e-08	1.000000
rad1	1.62938e-08	1.000000	1.63133e-08	1.000000
rad34	1.38230e-08	1.000000	1.38395e-08	1.000000
rad55	1.31396e-08	1.000000	1.31554e-08	1.000000
rad10	1.10245e-08	1.000000	1.10377e-08	1.000000
rad56	5.25529e-09	1.000000	5.26158e-09	1.000000
rad53	4.56803e-09	1.000000	4.57351e-09	1.000000
rad62	2.36501e-09	1.000000	2.36785e-09	1.000000
rad58	2.21219e-09	1.000000	2.21484e-09	1.000000
PAH8+H	1.94608e-09	1.000000	1.94842e-09	1.000000

rad64	1.46867e-09	1.00000	1.47043e-09	1.00000
rad72	1.22595e-09	1.00000	1.22743e-09	1.00000
rad8	7.19583e-10	1.00000	7.20446e-10	1.00000
rad68syn	6.50346e-10	1.00000	6.51126e-10	1.00000
rad14	5.67760e-10	1.00000	5.68441e-10	1.00000
rad68anti	4.24306e-10	1.00000	4.24814e-10	1.00000
rad31	3.82754e-10	1.00000	3.83214e-10	1.00000
rad43	3.41692e-10	1.00000	3.42102e-10	1.00000
rad61	2.91496e-10	1.00000	2.91845e-10	1.00000
rad40syn	2.33805e-10	1.00000	2.34085e-10	1.00000
rad42	2.23035e-10	1.00000	2.23303e-10	1.00000
rad40anti	1.38819e-10	1.00000	1.38985e-10	1.00000
rad41	3.18411e-11	1.00000	3.18792e-11	1.00000
rad5	2.27773e-11	1.00000	2.28046e-11	1.00000
rad27	8.02179e-12	1.00000	8.03143e-12	1.00000

10000000.0 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.88072e-13 (1.00)	4.85372e-13 (1.00)
Formation of rad11	1.74945e-13 (0.358)	1.73601e-13 (0.358)
Formation of rad6	1.76509e-13 (0.362)	1.75153e-13 (0.361)
H-abstraction	1.36618e-13 (0.280)	1.36618e-13 (0.281)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.434566	0.434566	0.436983	0.436983
Benzene+2-propynyl	0.279914	0.714479	0.281471	0.718454
rad11	0.251464	0.965944	0.252863	0.971317
C2H2+PhCH2	0.00718408	0.973128	0.00722402	0.978541
Phenyl+Allene	0.00553209	0.978660	0.000000	0.978541
PhCHCCH2+H	0.00457331	0.983233	0.00459875	0.983140
PhCH2CCH+H	0.00423075	0.987464	0.00425429	0.987394
Indene+H	0.00349463	0.990958	0.00351407	0.990908
rad21	0.00257737	0.993536	0.00259171	0.993500
rad22	0.00197393	0.995510	0.00198491	0.995485
rad45	0.00148192	0.996992	0.00149016	0.996975
rad20	0.000860827	0.997852	0.000865619	0.997841
rad7	0.000533230	0.998386	0.000536197	0.998377
rad23	0.000493145	0.998879	0.000495888	0.998873
rad9	0.000386352	0.999265	0.000388502	0.999261
rad36	0.000156568	0.999422	0.000157440	0.999419
rad13	0.000125009	0.999547	0.000125705	0.999544
rad18	9.86576e-05	0.999645	9.92066e-05	0.999643
rad25	6.72643e-05	0.999713	6.76385e-05	0.999711
PhCCH+CH3	5.68129e-05	0.999769	5.71290e-05	0.999768
PAH9+H	4.18931e-05	0.999811	4.21261e-05	0.999810
PAH7+H	3.52458e-05	0.999847	3.54418e-05	0.999846
rad24	3.33232e-05	0.999880	3.35086e-05	0.999879
rad38	2.20899e-05	0.999902	2.22128e-05	0.999902
rad28	1.65931e-05	0.999919	1.66854e-05	0.999918
rad19anti	1.38833e-05	0.999932	1.39605e-05	0.999932
Ph+MeAc	1.22960e-05	0.999945	1.23645e-05	0.999945
rad50	9.56001e-06	0.999954	9.61320e-06	0.999954
rad46	8.24888e-06	0.999963	8.29477e-06	0.999962
rad35	6.24817e-06	0.999969	6.28293e-06	0.999969
rad39	5.62838e-06	0.999974	5.65969e-06	0.999974
rad33	5.22935e-06	0.999980	5.25845e-06	0.999980
rad51	3.16045e-06	0.999983	3.17803e-06	0.999983
rad30	2.61249e-06	0.999985	2.62702e-06	0.999985
PAH3+H	1.71058e-06	0.999987	1.72009e-06	0.999987
PhCCCH3+H	1.47376e-06	0.999989	1.48196e-06	0.999989
rad19syn	1.10530e-06	0.999990	1.11146e-06	0.999990
rad12	1.04349e-06	0.999991	1.04930e-06	0.999991
rad67	1.03551e-06	0.999992	1.04127e-06	0.999992
rad52	8.76936e-07	0.999993	8.81808e-07	0.999993
rad15	8.17428e-07	0.999994	8.21969e-07	0.999994
rad3	8.03379e-07	0.999994	8.07850e-07	0.999994
PhcycC3H3_A+H	7.77787e-07	0.999995	7.82119e-07	0.999995
rad4	6.50728e-07	0.999996	6.54348e-07	0.999996
rad70	5.87506e-07	0.999996	5.90775e-07	0.999996
rad54	5.11768e-07	0.999997	5.14615e-07	0.999997
rad47	4.91741e-07	0.999997	4.94477e-07	0.999997
PAH10+CH3	4.17376e-07	0.999998	4.19699e-07	0.999998
rad2	2.61597e-07	0.999998	2.63053e-07	0.999998
PAH1+H	2.18720e-07	0.999998	2.19937e-07	0.999998
rad60syn	1.80181e-07	0.999998	1.81183e-07	0.999999
rad59	1.76766e-07	0.999999	1.77749e-07	0.999999
rad37	1.61203e-07	0.999999	1.62099e-07	0.999999

rad26	1.59178e-07	0.999999	1.60063e-07	0.999999
rad34	1.15729e-07	0.999999	1.16372e-07	0.999999
rad60anti	1.09892e-07	0.999999	1.10503e-07	0.999999
rad71	1.02945e-07	0.999999	1.03518e-07	0.999999
rad1	7.87573e-08	0.999999	7.91956e-08	0.999999
rad65	7.49473e-08	0.999999	7.53644e-08	1.000000
rad73	7.37584e-08	0.999999	7.41687e-08	1.000000
rad10	4.18555e-08	1.000000	4.20883e-08	1.000000
rad55	3.88263e-08	1.000000	3.90424e-08	1.000000
rad8	1.78880e-08	1.000000	1.79875e-08	1.000000
rad56	1.38267e-08	1.000000	1.39037e-08	1.000000
rad58	1.35928e-08	1.000000	1.36684e-08	1.000000
rad53	1.23361e-08	1.000000	1.24047e-08	1.000000
PAH8+H	9.19615e-09	1.000000	9.24725e-09	1.000000
rad62	9.18218e-09	1.000000	9.23324e-09	1.000000
rad68syn	4.25058e-09	1.000000	4.27422e-09	1.000000
rad64	4.13803e-09	1.000000	4.16105e-09	1.000000
rad72	3.50648e-09	1.000000	3.52599e-09	1.000000
rad14	3.46238e-09	1.000000	3.48164e-09	1.000000
rad68anti	2.78875e-09	1.000000	2.80427e-09	1.000000
rad31	2.29033e-09	1.000000	2.30307e-09	1.000000
rad43	1.44853e-09	1.000000	1.45658e-09	1.000000
rad40syn	1.25336e-09	1.000000	1.26034e-09	1.000000
rad61	9.88765e-10	1.000000	9.94265e-10	1.000000
rad42	8.50624e-10	1.000000	8.55359e-10	1.000000
rad40anti	7.04102e-10	1.000000	7.08019e-10	1.000000
rad41	1.35630e-10	1.000000	1.36385e-10	1.000000
rad5	7.68030e-11	1.000000	7.72304e-11	1.000000
rad27	6.41068e-11	1.000000	6.44635e-11	1.000000

10000000.0 Pa, 1000.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	7.98668e-13	(1.00)	7.86372e-13	(1.00)
Formation of rad11	2.67704e-13	(0.335)	2.61770e-13	(0.333)
Formation of rad6	2.87049e-13	(0.359)	2.80687e-13	(0.357)
H-abstraction	2.43915e-13	(0.305)	2.43915e-13	(0.310)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.452315	0.452315	0.459387	0.459387
Benzene+2-propynyl	0.305402	0.757717	0.310177	0.769564
rad11	0.171897	0.929614	0.174585	0.944149
Phenyl+Allene	0.0153956	0.945009	0.000000	0.944149
PhCH2CCH+H	0.0126242	0.957633	0.0128216	0.956971
C2H2+PhCH2	0.0124220	0.970055	0.0126162	0.969587
PhCHCCH2+H	0.0110711	0.981126	0.0112441	0.980831
Indene+H	0.00623769	0.987364	0.00633523	0.987166
rad21	0.00325867	0.990623	0.00330962	0.990476
rad45	0.00246282	0.993086	0.00250133	0.992977
rad22	0.00157511	0.994661	0.00159974	0.994577
rad7	0.00108289	0.995744	0.00109982	0.995677
rad9	0.00106918	0.996813	0.00108590	0.996763
rad20	0.000923482	0.997736	0.000937924	0.997701
rad23	0.000684008	0.998420	0.000694700	0.998395
rad13	0.000363133	0.998783	0.000368812	0.998764
rad36	0.000251474	0.999035	0.000255407	0.999020
PhCCH+CH3	0.000245520	0.999280	0.000249358	0.999269
PAH7+H	0.000116949	0.999397	0.000118777	0.999388
rad25	0.000100979	0.999498	0.000102558	0.999490
PAH9+H	7.47770e-05	0.999573	7.59460e-05	0.999566
rad18	6.50250e-05	0.999638	6.60418e-05	0.999632
rad28	6.19550e-05	0.999700	6.29237e-05	0.999695
rad24	4.93964e-05	0.999750	5.01688e-05	0.999745
Ph+MeAc	4.70926e-05	0.999797	4.78290e-05	0.999793
rad38	3.79065e-05	0.999835	3.84993e-05	0.999832
rad19anti	2.90902e-05	0.999864	2.95451e-05	0.999861
rad33	2.08807e-05	0.999884	2.12072e-05	0.999882
rad50	1.65976e-05	0.999901	1.68571e-05	0.999899
rad46	1.42363e-05	0.999915	1.44589e-05	0.999914
rad39	1.40713e-05	0.999929	1.42913e-05	0.999928
rad35	1.14780e-05	0.999941	1.16575e-05	0.999940
rad12	6.20142e-06	0.999947	6.29839e-06	0.999946
PAH3+H	6.08009e-06	0.999953	6.17516e-06	0.999952
rad30	5.79476e-06	0.999959	5.88537e-06	0.999958
rad51	5.48040e-06	0.999964	5.56609e-06	0.999964
rad19syn	4.78795e-06	0.999969	4.86282e-06	0.999969
PhCCCH3+H	4.41679e-06	0.999974	4.48585e-06	0.999973
PhcycC3H3_A+H	2.97748e-06	0.999977	3.02404e-06	0.999976

rad3	2.93313e-06	0.999980	2.97899e-06	0.999979
rad70	2.74943e-06	0.999982	2.79242e-06	0.999982
rad4	2.38126e-06	0.999985	2.41849e-06	0.999984
rad54	2.35305e-06	0.999987	2.38984e-06	0.999987
rad67	2.21239e-06	0.999989	2.24699e-06	0.999989
rad15	1.62949e-06	0.999991	1.65497e-06	0.999991
rad52	1.51812e-06	0.999992	1.54186e-06	0.999992
PAH10+CH3	9.39743e-07	0.999993	9.54439e-07	0.999993
rad2	8.87835e-07	0.999994	9.01716e-07	0.999994
rad47	8.34796e-07	0.999995	8.47847e-07	0.999995
PAH1+H	6.18568e-07	0.999996	6.28240e-07	0.999995
rad34	6.10893e-07	0.999996	6.20446e-07	0.999996
rad59	5.95959e-07	0.999997	6.05277e-07	0.999997
rad60syn	5.22821e-07	0.999997	5.30997e-07	0.999997
rad26	4.88910e-07	0.999998	4.96554e-07	0.999998
rad37	3.75603e-07	0.999998	3.81476e-07	0.999998
rad60anti	3.24002e-07	0.999999	3.29068e-07	0.999998
rad1	2.64417e-07	0.999999	2.68551e-07	0.999999
rad8	2.22612e-07	0.999999	2.26093e-07	0.999999
rad71	1.82711e-07	0.999999	1.85569e-07	0.999999
rad55	1.74350e-07	0.999999	1.77076e-07	0.999999
rad65	1.33989e-07	1.000000	1.36084e-07	0.999999
rad10	1.31168e-07	1.000000	1.33219e-07	0.999999
rad73	1.30404e-07	1.000000	1.32443e-07	1.000000
PAH8+H	7.31037e-08	1.000000	7.42470e-08	1.000000
rad58	5.84267e-08	1.000000	5.93402e-08	1.000000
rad56	5.31440e-08	1.000000	5.39750e-08	1.000000
rad53	4.98737e-08	1.000000	5.06535e-08	1.000000
rad62	3.59019e-08	1.000000	3.64633e-08	1.000000
rad68syn	3.05803e-08	1.000000	3.10585e-08	1.000000
rad14	2.35440e-08	1.000000	2.39121e-08	1.000000
rad68anti	2.00044e-08	1.000000	2.03172e-08	1.000000
rad64	1.12075e-08	1.000000	1.13828e-08	1.000000
rad31	1.01772e-08	1.000000	1.03363e-08	1.000000
rad40syn	9.65609e-09	1.000000	9.80707e-09	1.000000
rad72	6.26357e-09	1.000000	6.36150e-09	1.000000
rad40anti	5.46304e-09	1.000000	5.54846e-09	1.000000
rad43	4.19927e-09	1.000000	4.26493e-09	1.000000
rad42	3.21830e-09	1.000000	3.26861e-09	1.000000
rad61	2.17993e-09	1.000000	2.21401e-09	1.000000
rad27	5.97269e-10	1.000000	6.06608e-10	1.000000
rad41	3.89269e-10	1.000000	3.95356e-10	1.000000
rad5	1.90520e-10	1.000000	1.93499e-10	1.000000

10000000.0 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22919e-12 (1.00)	1.19082e-12 (1.00)
Formation of rad11	3.87976e-13 (0.316)	3.69948e-13 (0.311)
Formation of rad6	4.37724e-13 (0.356)	4.17384e-13 (0.351)
H-abstraction	4.03491e-13 (0.328)	4.03491e-13 (0.339)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.432745	0.432745	0.446689	0.446689
Benzene+2-propynyl	0.328257	0.761003	0.338834	0.785522
rad11	0.127076	0.888078	0.131169	0.916692
Phenyl+Allene	0.0312144	0.919293	0.000000	0.916692
PhCH2CCH+H	0.0243904	0.943683	0.0251762	0.941868
PhCHCCH2+H	0.0181076	0.961791	0.0186911	0.960559
C2H2+PhCH2	0.0151892	0.976980	0.0156786	0.976238
Indene+H	0.00754817	0.984528	0.00779138	0.984029
rad21	0.00291137	0.987439	0.00300518	0.987034
rad45	0.00289499	0.990334	0.00298827	0.990023
rad7	0.00196732	0.992302	0.00203071	0.992053
rad9	0.00185185	0.994154	0.00191152	0.993965
rad13	0.000997625	0.995151	0.00102977	0.994995
rad22	0.000935328	0.996087	0.000965461	0.995960
PhCCH+CH3	0.000872762	0.996959	0.000900885	0.996861
rad20	0.000728888	0.997688	0.000752374	0.997613
rad23	0.000658601	0.998347	0.000679824	0.998293
PAH7+H	0.000341552	0.998688	0.000352557	0.998646
rad36	0.000289543	0.998978	0.000298872	0.998944
Ph+MeAc	0.000157197	0.999135	0.000162263	0.999107
rad28	0.000139941	0.999275	0.000144450	0.999251
rad25	0.000120201	0.999395	0.000124074	0.999375
PAH9+H	9.62507e-05	0.999492	9.93521e-05	0.999475
rad33	6.15527e-05	0.999553	6.35359e-05	0.999538
rad24	5.99691e-05	0.999613	6.19014e-05	0.999600

rad38	4.69993e-05	0.999660	4.85136e-05	0.999649
rad18	4.65410e-05	0.999707	4.80405e-05	0.999697
rad19anti	4.34622e-05	0.999750	4.48626e-05	0.999741
rad39	3.98142e-05	0.999790	4.10970e-05	0.999783
rad19syn	2.57865e-05	0.999816	2.66174e-05	0.999809
rad50	2.06550e-05	0.999836	2.13205e-05	0.999831
rad46	1.76691e-05	0.999854	1.82384e-05	0.999849
PhcycC3H3_A+H	1.74103e-05	0.999871	1.79713e-05	0.999867
rad35	1.51870e-05	0.999887	1.56763e-05	0.999882
rad12	1.41708e-05	0.999901	1.46274e-05	0.999897
rad54	1.18022e-05	0.999913	1.21825e-05	0.999909
PAH3+H	1.15746e-05	0.999924	1.19475e-05	0.999921
PhCCCH3+H	1.15410e-05	0.999936	1.19128e-05	0.999933
rad30	8.33008e-06	0.999944	8.59847e-06	0.999942
rad3	7.77650e-06	0.999952	8.02709e-06	0.999950
rad70	7.44909e-06	0.999959	7.68910e-06	0.999957
rad51	6.81819e-06	0.999966	7.03785e-06	0.999964
rad4	6.27787e-06	0.999972	6.48015e-06	0.999971
rad67	3.37365e-06	0.999976	3.48234e-06	0.999974
rad15	2.93869e-06	0.999979	3.03338e-06	0.999977
PAH1+H	2.52520e-06	0.999981	2.60656e-06	0.999980
rad2	2.45384e-06	0.999984	2.53290e-06	0.999983
PAH10+CH3	1.96219e-06	0.999986	2.02541e-06	0.999985
rad52	1.88732e-06	0.999987	1.94813e-06	0.999987
rad34	1.83621e-06	0.999989	1.89537e-06	0.999988
rad8	1.27835e-06	0.999991	1.31954e-06	0.999990
rad26	1.21552e-06	0.999992	1.25468e-06	0.999991
rad59	1.09879e-06	0.999993	1.13419e-06	0.999992
rad47	9.85252e-07	0.999994	1.01699e-06	0.999993
rad55	8.97872e-07	0.999995	9.26803e-07	0.999994
rad60syn	8.84746e-07	0.999996	9.13249e-07	0.999995
rad37	8.29159e-07	0.999996	8.55880e-07	0.999996
rad1	6.97511e-07	0.999997	7.19984e-07	0.999997
rad60anti	5.53395e-07	0.999998	5.71226e-07	0.999997
rad10	4.00539e-07	0.999998	4.13444e-07	0.999998
PAH8+H	3.59740e-07	0.999998	3.71331e-07	0.999998
rad56	3.05130e-07	0.999999	3.14962e-07	0.999998
rad53	2.78270e-07	0.999999	2.87236e-07	0.999999
rad71	2.31223e-07	0.999999	2.38672e-07	0.999999
rad65	1.72868e-07	0.999999	1.78438e-07	0.999999
rad73	1.64598e-07	1.000000	1.69901e-07	0.999999
rad62	1.38730e-07	1.000000	1.43200e-07	0.999999
rad14	1.32132e-07	1.000000	1.36389e-07	0.999999
rad68syn	1.24450e-07	1.000000	1.28461e-07	1.000000
rad58	1.24323e-07	1.000000	1.28328e-07	1.000000
rad68anti	8.11096e-08	1.000000	8.37235e-08	1.000000
rad64	4.57333e-08	1.000000	4.72069e-08	1.000000
rad40syn	4.40990e-08	1.000000	4.55199e-08	1.000000
rad31	3.30346e-08	1.000000	3.40989e-08	1.000000
rad40anti	2.56828e-08	1.000000	2.65103e-08	1.000000
rad42	1.25976e-08	1.000000	1.30035e-08	1.000000
rad43	1.06923e-08	1.000000	1.10368e-08	1.000000
rad72	7.95827e-09	1.000000	8.21466e-09	1.000000
rad27	4.84934e-09	1.000000	5.00558e-09	1.000000
rad61	4.34163e-09	1.000000	4.48152e-09	1.000000
rad41	9.79011e-10	1.000000	1.01055e-09	1.000000
rad5	3.65638e-10	1.000000	3.77419e-10	1.000000

10000000.0 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.69684e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.90339e-13 (0.289)
Formation of rad6	6.34764e-13 (0.352)	5.77684e-13 (0.340)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.371)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.379886	0.379886	0.403512	0.403512
Benzene+2-propynyl	0.348883	0.728769	0.370581	0.774093
rad11	0.104527	0.833296	0.111028	0.885122
Phenyl+Allene	0.0585510	0.891847	0.000000	0.885122
PhCH2CCH+H	0.0381466	0.929994	0.0405190	0.925641
PhCHCCH2+H	0.0248307	0.954825	0.0263749	0.952015
C2H2+PhCH2	0.0161958	0.971021	0.0172031	0.969219
Indene+H	0.00783737	0.978858	0.00832476	0.977543
rad7	0.00378850	0.982646	0.00402411	0.981567
rad45	0.00294035	0.985587	0.00312321	0.984691
rad21	0.00254326	0.988130	0.00270144	0.987392

rad9	0.00253856	0.990669	0.00269643	0.990089
PhCCH+CH3	0.00243785	0.993106	0.00258946	0.992678
rad13	0.00218435	0.995291	0.00232020	0.994998
PAH7+H	0.000881515	0.996172	0.000936337	0.995935
rad20	0.000580176	0.996752	0.000616259	0.996551
rad23	0.000564149	0.997317	0.000599234	0.997150
rad22	0.000558601	0.997875	0.000593342	0.997743
Ph+MeAc	0.000433561	0.998309	0.000460525	0.998204
rad36	0.000291225	0.998600	0.000309337	0.998513
rad28	0.000226785	0.998827	0.000240889	0.998754
rad33	0.000150085	0.998977	0.000159419	0.998914
rad25	0.000124888	0.999102	0.000132655	0.999046
rad39	0.000109382	0.999211	0.000116185	0.999162
PAH9+H	0.000106868	0.999318	0.000113515	0.999276
rad19syn	0.000103738	0.999422	0.000110190	0.999386
PhcycC3H3_A+H	7.72694e-05	0.999499	8.20750e-05	0.999468
rad24	6.43356e-05	0.999563	6.83367e-05	0.999536
rad19anti	5.77275e-05	0.999621	6.13177e-05	0.999598
rad38	5.08421e-05	0.999672	5.40041e-05	0.999652
rad18	4.40788e-05	0.999716	4.68202e-05	0.999699
rad54	4.12525e-05	0.999757	4.38181e-05	0.999742
PhCCCH3+H	2.69980e-05	0.999784	2.86772e-05	0.999771
rad50	2.22885e-05	0.999807	2.36747e-05	0.999795
rad12	2.14914e-05	0.999828	2.28280e-05	0.999818
rad46	1.90440e-05	0.999847	2.02284e-05	0.999838
rad35	1.73145e-05	0.999864	1.83913e-05	0.999856
rad3	1.59964e-05	0.999880	1.69913e-05	0.999873
PAH3+H	1.58564e-05	0.999896	1.68426e-05	0.999890
rad70	1.33580e-05	0.999910	1.41888e-05	0.999904
rad4	1.28533e-05	0.999922	1.36527e-05	0.999918
rad30	9.77086e-06	0.999932	1.03786e-05	0.999928
PAH1+H	9.49394e-06	0.999942	1.00844e-05	0.999938
rad51	7.35932e-06	0.999949	7.81701e-06	0.999946
rad15	6.18831e-06	0.999955	6.57315e-06	0.999953
rad2	5.49266e-06	0.999961	5.83426e-06	0.999959
PAH10+CH3	4.66865e-06	0.999965	4.95900e-06	0.999964
rad67	4.53795e-06	0.999970	4.82018e-06	0.999968
rad8	3.60501e-06	0.999974	3.82922e-06	0.999972
rad34	3.48780e-06	0.999977	3.70472e-06	0.999976
rad55	3.20475e-06	0.999980	3.40406e-06	0.999979
rad26	2.37321e-06	0.999983	2.52080e-06	0.999982
rad52	2.03650e-06	0.999985	2.16316e-06	0.999984
rad37	1.98007e-06	0.999987	2.10322e-06	0.999986
rad1	1.51269e-06	0.999988	1.60677e-06	0.999988
rad59	1.47920e-06	0.999990	1.57119e-06	0.999989
rad10	1.28411e-06	0.999991	1.36398e-06	0.999991
rad56	1.20164e-06	0.999992	1.27637e-06	0.999992
rad60syn	1.13742e-06	0.999993	1.20816e-06	0.999993
rad53	1.06529e-06	0.999994	1.13154e-06	0.999994
rad47	1.00109e-06	0.999995	1.06335e-06	0.999995
PAH8+H	8.78455e-07	0.999996	9.33089e-07	0.999996
rad60anti	7.15044e-07	0.999997	7.59514e-07	0.999997
rad14	5.66857e-07	0.999997	6.02111e-07	0.999998
rad62	4.30473e-07	0.999998	4.57245e-07	0.999998
rad68syn	2.76429e-07	0.999998	2.93621e-07	0.999998
rad71	2.52899e-07	0.999998	2.68628e-07	0.999999
rad65	1.92639e-07	0.999999	2.04619e-07	0.999999
rad58	1.80548e-07	0.999999	1.91777e-07	0.999999
rad68anti	1.79827e-07	0.999999	1.91011e-07	0.999999
rad73	1.79681e-07	0.999999	1.90856e-07	0.999999
rad64	1.77439e-07	0.999999	1.88475e-07	1.000000
rad40syn	1.03836e-07	0.999999	1.10293e-07	1.000000
rad31	8.19437e-08	1.000000	8.70399e-08	1.000000
rad40anti	6.13928e-08	1.000000	6.52110e-08	1.000000
rad42	4.03087e-08	1.000000	4.28156e-08	1.000000
rad27	2.57780e-08	1.000000	2.73812e-08	1.000000
rad43	2.48964e-08	1.000000	2.64449e-08	1.000000
rad61	1.02044e-08	1.000000	1.08390e-08	1.000000
rad72	8.72855e-09	1.000000	9.27141e-09	1.000000
rad41	2.27473e-09	1.000000	2.41620e-09	1.000000
rad5	6.87860e-10	1.000000	7.30642e-10	1.000000

10000000.0 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.54148e-12 (1.00)	2.28573e-12 (1.00)
Formation of rad11	7.22991e-13 (0.284)	6.07942e-13 (0.266)
Formation of rad6	8.84215e-13 (0.348)	7.43511e-13 (0.325)
H-abstraction	9.34273e-13 (0.368)	9.34273e-13 (0.409)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.367610	0.367610	0.408742	0.408742
rad6	0.304051	0.671661	0.338071	0.746813
Phenyl+Allene	0.100632	0.772292	0.00000	0.746813
rad11	0.0893118	0.861604	0.0993053	0.846119
PhCH2CCH+H	0.0517127	0.913317	0.0574990	0.903618
PhCHCCH2+H	0.0309868	0.944304	0.0344539	0.938072
C2H2+PhCH2	0.0170195	0.961323	0.0189239	0.956995
Indene+H	0.00797785	0.969301	0.00887052	0.965866
rad7	0.00701902	0.976320	0.00780442	0.973670
PhCCH+CH3	0.00496150	0.981281	0.00551665	0.979187
rad13	0.00371714	0.984999	0.00413305	0.983320
rad9	0.00312254	0.988121	0.00347192	0.986792
rad45	0.00293652	0.991058	0.00326509	0.990057
rad21	0.00238247	0.993440	0.00264904	0.992706
PAH7+H	0.00177502	0.995215	0.00197363	0.994680
Ph+MeAc	0.000889001	0.996104	0.000988470	0.995668
rad20	0.000521750	0.996626	0.000580129	0.996248
rad23	0.000488492	0.997114	0.000543149	0.996792
rad22	0.000400447	0.997515	0.000445254	0.997237
rad36	0.000289540	0.997804	0.000321937	0.997559
rad33	0.000279379	0.998084	0.000310638	0.997869
rad28	0.000275180	0.998359	0.000305970	0.998175
rad19syn	0.000258056	0.998617	0.000286930	0.998462
rad39	0.000226740	0.998844	0.000252111	0.998714
PhcycC3H3_A+H	0.000203406	0.999047	0.000226166	0.998941
rad25	0.000138100	0.999185	0.000153552	0.999094
PAH9+H	0.000116355	0.999302	0.000129374	0.999223
rad54	9.83348e-05	0.999400	0.000109338	0.999333
rad19anti	7.30132e-05	0.999473	8.11832e-05	0.999414
rad24	6.50464e-05	0.999538	7.23244e-05	0.999486
rad38	5.42837e-05	0.999592	6.03574e-05	0.999547
PhCCCH3+H	4.98983e-05	0.999642	5.54814e-05	0.999602
rad18	4.93428e-05	0.999691	5.48639e-05	0.999657
rad12	2.76279e-05	0.999719	3.07193e-05	0.999688
rad3	2.47370e-05	0.999744	2.75048e-05	0.999715
PAH1+H	2.39303e-05	0.999768	2.66080e-05	0.999742
rad50	2.36363e-05	0.999791	2.62810e-05	0.999768
rad46	2.01810e-05	0.999812	2.24391e-05	0.999791
rad4	1.98219e-05	0.999831	2.20398e-05	0.999813
PAH3+H	1.94684e-05	0.999851	2.16468e-05	0.999834
rad35	1.92436e-05	0.999870	2.13968e-05	0.999856
rad70	1.85904e-05	0.999889	2.06705e-05	0.999876
rad15	1.54707e-05	0.999904	1.72018e-05	0.999894
rad30	1.08401e-05	0.999915	1.20530e-05	0.999906
PAH10+CH3	9.83221e-06	0.999925	1.09324e-05	0.999917
rad2	9.23941e-06	0.999934	1.02732e-05	0.999927
rad51	7.80837e-06	0.999942	8.68203e-06	0.999935
rad55	7.75165e-06	0.999950	8.61894e-06	0.999944
rad8	6.14932e-06	0.999956	6.83736e-06	0.999951
rad67	5.73063e-06	0.999962	6.37181e-06	0.999957
rad34	4.99818e-06	0.999967	5.55743e-06	0.999963
rad37	3.99388e-06	0.999971	4.44076e-06	0.999967
rad10	3.88823e-06	0.999974	4.32329e-06	0.999972
rad26	3.70631e-06	0.999978	4.12101e-06	0.999976
rad56	3.11347e-06	0.999981	3.46184e-06	0.999979
rad53	2.70614e-06	0.999984	3.00894e-06	0.999982
rad1	2.50106e-06	0.999986	2.78091e-06	0.999985
rad52	2.16037e-06	0.999989	2.40210e-06	0.999987
rad59	1.79455e-06	0.999990	1.99535e-06	0.999989
rad14	1.63307e-06	0.999992	1.81579e-06	0.999991
PAH8+H	1.42783e-06	0.999993	1.58759e-06	0.999993
rad60syn	1.33889e-06	0.999995	1.48870e-06	0.999994
rad47	1.00036e-06	0.999996	1.11229e-06	0.999995
rad62	9.32016e-07	0.999997	1.03630e-06	0.999996
rad60anti	8.44462e-07	0.999998	9.38953e-07	0.999997
rad64	4.58366e-07	0.999998	5.09653e-07	0.999998
rad68syn	4.28316e-07	0.999998	4.76241e-07	0.999998
rad68anti	2.78377e-07	0.999999	3.09525e-07	0.999999
rad71	2.71357e-07	0.999999	3.01719e-07	0.999999
rad58	2.30741e-07	0.999999	2.56559e-07	0.999999
rad65	2.11046e-07	0.999999	2.34660e-07	0.999999
rad73	1.92486e-07	1.000000	2.14024e-07	1.000000
rad40syn	1.65746e-07	1.000000	1.84291e-07	1.000000
rad31	1.48692e-07	1.000000	1.65329e-07	1.000000
rad40anti	9.87806e-08	1.000000	1.09833e-07	1.000000
rad42	8.92890e-08	1.000000	9.92793e-08	1.000000
rad27	7.53271e-08	1.000000	8.37552e-08	1.000000

rad43	4.67207e-08	1.00000	5.19483e-08	1.00000
rad61	2.21983e-08	1.00000	2.46821e-08	1.00000
rad72	9.38638e-09	1.00000	1.04366e-08	1.00000
rad41	4.29615e-09	1.00000	4.77685e-09	1.00000
rad5	1.35780e-09	1.00000	1.50972e-09	1.00000

10000000.0 Pa, 1400.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.47024e-12	(1.00)	2.98902e-12	(1.00)
Formation of rad11	9.43269e-13	(0.272)	7.30681e-13	(0.244)
Formation of rad6	1.19194e-12	(0.343)	9.23304e-13	(0.309)
H-abstraction	1.33503e-12	(0.385)	1.33503e-12	(0.447)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.446646	0.446646
rad6	0.237580	0.622289	0.275831	0.722476
Phenyl+Allene	0.138671	0.760960	0.000000	0.722476
rad11	0.0798334	0.840793	0.0926863	0.815162
PhCH2CCH+H	0.0595810	0.900374	0.0691732	0.884336
PhCHCCH2+H	0.0343401	0.934715	0.0398687	0.924204
C2H2+PhCH2	0.0173353	0.952050	0.0201262	0.944331
rad7	0.0115673	0.963617	0.0134297	0.957760
Indene+H	0.00793104	0.971548	0.00920793	0.966968
PhCCH+CH3	0.00704188	0.978590	0.00817559	0.975144
rad13	0.00466553	0.983256	0.00541666	0.980560
rad9	0.00340757	0.986663	0.00395619	0.984517
rad45	0.00286585	0.989529	0.00332725	0.987844
PAH7+H	0.00254838	0.992077	0.00295866	0.990803
rad21	0.00225763	0.994335	0.00262110	0.993424
Ph+MeAc	0.00127860	0.995614	0.00148445	0.994908
rad20	0.000488802	0.996103	0.000567498	0.995476
rad23	0.000448557	0.996551	0.000520773	0.995996
rad19syn	0.000383943	0.996935	0.000445756	0.996442
rad22	0.000366999	0.997302	0.000426085	0.996868
rad33	0.000357548	0.997660	0.000415112	0.997283
rad39	0.000323989	0.997984	0.000376151	0.997660
PhcycC3H3_A+H	0.000311627	0.998295	0.000361798	0.998021
rad36	0.000281938	0.998577	0.000327329	0.998349
rad28	0.000268894	0.998846	0.000312185	0.998661
rad54	0.000158417	0.999004	0.000183922	0.998845
rad25	0.000151733	0.999156	0.000176162	0.999021
PAH9+H	0.000123042	0.999279	0.000142852	0.999164
rad19anti	8.33098e-05	0.999363	9.67225e-05	0.999260
PhCCH3+H	6.65622e-05	0.999429	7.72787e-05	0.999338
rad24	6.30593e-05	0.999492	7.32116e-05	0.999411
rad18	5.82401e-05	0.999550	6.76166e-05	0.999479
rad38	5.63996e-05	0.999607	6.54795e-05	0.999544
PAH1+H	3.94399e-05	0.999646	4.57896e-05	0.999590
rad15	3.72337e-05	0.999683	4.32282e-05	0.999633
rad12	3.07031e-05	0.999714	3.56462e-05	0.999669
rad3	2.74643e-05	0.999742	3.18859e-05	0.999701
rad50	2.44101e-05	0.999766	2.83400e-05	0.999729
rad4	2.19681e-05	0.999788	2.55049e-05	0.999754
rad70	2.15904e-05	0.999810	2.50664e-05	0.999780
PAH3+H	2.13692e-05	0.999831	2.48096e-05	0.999804
rad46	2.08301e-05	0.999852	2.41837e-05	0.999829
rad35	2.04944e-05	0.999872	2.37939e-05	0.999852
PAH10+CH3	1.45730e-05	0.999887	1.69192e-05	0.999869
rad55	1.26359e-05	0.999899	1.46702e-05	0.999884
rad30	1.12578e-05	0.999911	1.30702e-05	0.999897
rad2	1.09925e-05	0.999922	1.27623e-05	0.999910
rad10	8.73129e-06	0.999930	1.01370e-05	0.999920
rad51	8.06948e-06	0.999939	9.36862e-06	0.999929
rad8	7.72123e-06	0.999946	8.96429e-06	0.999938
rad67	6.41478e-06	0.999953	7.44754e-06	0.999946
rad34	5.89078e-06	0.999959	6.83918e-06	0.999952
rad37	5.65822e-06	0.999964	6.56915e-06	0.999959
rad56	5.37040e-06	0.999970	6.23503e-06	0.999965
rad26	5.14564e-06	0.999975	5.97407e-06	0.999971
rad53	4.59200e-06	0.999979	5.33129e-06	0.999977
rad1	2.94711e-06	0.999982	3.42159e-06	0.999980
rad14	2.80978e-06	0.999985	3.26214e-06	0.999983
rad52	2.23229e-06	0.999987	2.59169e-06	0.999986
rad59	1.95632e-06	0.999989	2.27128e-06	0.999988
PAH8+H	1.79637e-06	0.999991	2.08557e-06	0.999990
rad60syn	1.43554e-06	0.999993	1.66665e-06	0.999992
rad62	1.39838e-06	0.999994	1.62352e-06	0.999994

rad47	9.76473e-07	0.999995	1.13368e-06	0.999995
rad60anti	9.07044e-07	0.999996	1.05307e-06	0.999996
rad64	7.69969e-07	0.999997	8.93933e-07	0.999997
rad68syn	5.25340e-07	0.999997	6.09918e-07	0.999997
rad68anti	3.41271e-07	0.999997	3.96214e-07	0.999998
rad71	2.83231e-07	0.999998	3.28830e-07	0.999998
rad58	2.59191e-07	0.999998	3.00920e-07	0.999998
rad65	2.24957e-07	0.999998	2.61174e-07	0.999998
rad40syn	2.06532e-07	0.999998	2.39782e-07	0.999999
rad73	2.00625e-07	0.999999	2.32925e-07	0.999999
rad31	1.89734e-07	0.999999	2.20280e-07	0.999999
rad42	1.36710e-07	0.999999	1.58720e-07	0.999999
rad40anti	1.23623e-07	0.999999	1.43526e-07	0.999999
rad27	1.23595e-07	0.999999	1.43494e-07	1.000000
rad43	6.43502e-08	0.999999	7.47100e-08	1.000000
rad61	3.41327e-08	0.999999	3.96280e-08	1.000000
rad72	9.81617e-09	0.999999	1.13965e-08	1.000000
rad41	5.98138e-09	0.999999	6.94438e-09	1.000000
rad5	2.75114e-09	0.999999	3.19406e-09	1.000000

10000000.0 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.61271e-12 (1.00)	3.90288e-12 (1.00)
Formation of rad11	1.20217e-12 (0.261)	8.93634e-13 (0.229)
Formation of rad6	1.56360e-12 (0.339)	1.16230e-12 (0.298)
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.473)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.473225	0.473225
rad6	0.206242	0.606645	0.243753	0.716978
Phenyl+Allene	0.153887	0.760531	0.00000	0.716978
rad11	0.0744988	0.835030	0.0880483	0.805027
PhCH2CCH+H	0.0609731	0.896003	0.0720628	0.877089
PhCHCCH2+H	0.0345808	0.930584	0.0408703	0.917960
C2H2+PhCH2	0.0168417	0.947426	0.0199048	0.937864
rad7	0.0159483	0.963374	0.0188489	0.956713
PhCCH+CH3	0.00765566	0.971030	0.00904804	0.965761
Indene+H	0.00754726	0.978577	0.00891987	0.974681
rad13	0.00456405	0.983141	0.00539412	0.980075
rad9	0.00337541	0.986517	0.00398931	0.984065
PAH7+H	0.00279101	0.989308	0.00329863	0.987363
rad45	0.00267349	0.991981	0.00315973	0.990523
rad21	0.00207968	0.994061	0.00245792	0.992981
Ph+MeAc	0.00140619	0.995467	0.00166195	0.994643
rad23	0.000463672	0.995931	0.000548004	0.995191
rad20	0.000449851	0.996381	0.000531668	0.995723
rad19syn	0.000407400	0.996788	0.000481496	0.996204
rad22	0.000404895	0.997193	0.000478535	0.996683
rad33	0.000350209	0.997543	0.000413904	0.997096
rad39	0.000348972	0.997892	0.000412442	0.997509
PhcycC3H3_A+H	0.000336162	0.998228	0.000397301	0.997906
rad28	0.000269907	0.998498	0.000318996	0.998225
rad36	0.000262667	0.998761	0.000310440	0.998536
rad54	0.000187978	0.998949	0.000222167	0.998758
rad25	0.000153191	0.999102	0.000181053	0.998939
PAH9+H	0.000123183	0.999225	0.000145586	0.999084
rad19anti	8.64122e-05	0.999312	0.000102128	0.999187
PhCCCH3+H	6.95629e-05	0.999381	8.22148e-05	0.999269
rad15	6.95126e-05	0.999451	8.21547e-05	0.999351
rad18	6.58100e-05	0.999516	7.77798e-05	0.999429
rad24	5.83374e-05	0.999575	6.89474e-05	0.999498
rad38	5.55141e-05	0.999630	6.56108e-05	0.999563
PAH1+H	4.65566e-05	0.999677	5.50242e-05	0.999618
rad12	3.05768e-05	0.999707	3.61381e-05	0.999654
rad3	2.44880e-05	0.999732	2.89418e-05	0.999683
rad50	2.39902e-05	0.999756	2.83534e-05	0.999712
rad70	2.22082e-05	0.999778	2.62473e-05	0.999738
PAH3+H	2.14754e-05	0.999800	2.53813e-05	0.999763
rad35	2.05125e-05	0.999820	2.42432e-05	0.999788
rad46	2.04641e-05	0.999841	2.41860e-05	0.999812
rad4	1.95607e-05	0.999860	2.31183e-05	0.999835
PAH10+CH3	1.54547e-05	0.999876	1.82655e-05	0.999853
rad55	1.51169e-05	0.999891	1.78662e-05	0.999871
rad10	1.27481e-05	0.999903	1.50667e-05	0.999886
rad30	1.09940e-05	0.999914	1.29936e-05	0.999899
rad2	1.02938e-05	0.999925	1.21660e-05	0.999911
rad8	8.05194e-06	0.999933	9.51639e-06	0.999921

rad51	7.93657e-06	0.999941	9.38001e-06	0.999930
rad26	7.70333e-06	0.999948	9.10435e-06	0.999939
rad56	6.68545e-06	0.999955	7.90136e-06	0.999947
rad67	6.48519e-06	0.999962	7.66468e-06	0.999955
rad34	6.10049e-06	0.999968	7.21002e-06	0.999962
rad37	5.85523e-06	0.999974	6.92013e-06	0.999969
rad53	5.65054e-06	0.999979	6.67824e-06	0.999976
rad14	3.29601e-06	0.999982	3.89548e-06	0.999980
rad1	2.74424e-06	0.999985	3.24335e-06	0.999983
rad52	2.19529e-06	0.999987	2.59455e-06	0.999985
rad59	1.95890e-06	0.999989	2.31517e-06	0.999988
PAH8+H	1.91946e-06	0.999991	2.26857e-06	0.999990
rad62	1.59142e-06	0.999993	1.88086e-06	0.999992
rad60syn	1.42505e-06	0.999994	1.68424e-06	0.999994
rad64	9.20239e-07	0.999995	1.08761e-06	0.999995
rad47	9.10195e-07	0.999996	1.07574e-06	0.999996
rad60anti	9.01261e-07	0.999997	1.06518e-06	0.999997
rad68syn	5.54367e-07	0.999998	6.55192e-07	0.999997
rad68anti	3.60044e-07	0.999998	4.25527e-07	0.999998
rad71	2.81029e-07	0.999998	3.32141e-07	0.999998
rad58	2.63716e-07	0.999999	3.11679e-07	0.999998
rad65	2.27505e-07	0.999999	2.68883e-07	0.999999
rad40syn	2.19617e-07	0.999999	2.59560e-07	0.999999
rad73	1.98816e-07	0.999999	2.34976e-07	0.999999
rad31	1.88473e-07	0.999999	2.22752e-07	0.999999
rad42	1.58031e-07	1.000000	1.86773e-07	1.000000
rad27	1.38726e-07	1.000000	1.63957e-07	1.000000
rad40anti	1.31730e-07	1.000000	1.55689e-07	1.000000
rad43	6.91492e-08	1.000000	8.17254e-08	1.000000
rad61	3.69624e-08	1.000000	4.36849e-08	1.000000
rad72	9.75659e-09	1.000000	1.15310e-08	1.000000
rad41	6.49184e-09	1.000000	7.67258e-09	1.000000
rad5	6.04011e-09	1.000000	7.13864e-09	1.000000

10000000.0 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.42671e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.11671e-12 (0.174)
Formation of rad6	2.80256e-12 (0.325)	1.53403e-12 (0.239)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.588)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.587544	0.587544
Phenyl+Allene	0.254329	0.692444	0.000000	0.587544
rad6	0.108406	0.800850	0.145380	0.732925
PhCH2CCH+H	0.0937472	0.894597	0.125722	0.858646
PhCHCCH2+H	0.0451902	0.939787	0.0606034	0.919250
C2H2+PhCH2	0.0169870	0.956774	0.0227808	0.942031
rad11	0.0103553	0.967130	0.0138872	0.955918
PhCCH+CH3	0.00886402	0.975994	0.0118873	0.967805
PhcycC3H3_A+H	0.00510130	0.981095	0.00684124	0.974646
PAH7+H	0.00392139	0.985016	0.00525885	0.979905
Indene+H	0.00335161	0.988368	0.00449474	0.984400
Ph+MeAc	0.00249537	0.990863	0.00334647	0.987746
rad19syn	0.00244392	0.993307	0.00327748	0.991024
rad7	0.00151206	0.994819	0.00202778	0.993052
rad54	0.000705284	0.995524	0.000945835	0.993998
rad39	0.000582608	0.996107	0.000781319	0.994779
rad50	0.000319392	0.996426	0.000428327	0.995207
rad13	0.000283040	0.996710	0.000379577	0.995587
PAH1+H	0.000276810	0.996986	0.000371222	0.995958
rad51	0.000262278	0.997249	0.000351734	0.996310
PAH9+H	0.000235074	0.997484	0.000315251	0.996625
rad71	0.000228846	0.997713	0.000306899	0.996932
rad38	0.000187075	0.997900	0.000250882	0.997183
rad19anti	0.000169617	0.998069	0.000227469	0.997410
rad22	0.000154090	0.998223	0.000206646	0.997617
PAH3+H	0.000132436	0.998356	0.000177607	0.997794
rad56	0.000125661	0.998481	0.000168520	0.997963
rad21	0.000125334	0.998607	0.000168081	0.998131
PhCCCH3+H	0.000112999	0.998720	0.000151540	0.998283
PAH8+H	0.000111366	0.998831	0.000149350	0.998432
rad28	9.72056e-05	0.998928	0.000130360	0.998562
rad70	9.13457e-05	0.999020	0.000122501	0.998685
rad46	8.83570e-05	0.999108	0.000118493	0.998803
rad55	7.93219e-05	0.999187	0.000106376	0.998910
rad53	7.68384e-05	0.999264	0.000103046	0.999013

PAH10+CH3	7.33620e-05	0.999338	9.83839e-05	0.999111
rad73	7.12589e-05	0.999409	9.55631e-05	0.999207
rad67	6.16725e-05	0.999470	8.27073e-05	0.999289
rad9	6.15590e-05	0.999532	8.25551e-05	0.999372
rad35	5.61117e-05	0.999588	7.52501e-05	0.999447
rad72	4.44374e-05	0.999633	5.95937e-05	0.999507
rad52	4.36071e-05	0.999676	5.84805e-05	0.999565
rad23	4.10695e-05	0.999717	5.50773e-05	0.999620
rad34	3.88149e-05	0.999756	5.20536e-05	0.999672
rad45	2.92680e-05	0.999785	3.92505e-05	0.999712
rad20	2.65861e-05	0.999812	3.56540e-05	0.999747
rad33	2.24697e-05	0.999834	3.01335e-05	0.999777
rad62	2.19454e-05	0.999856	2.94305e-05	0.999807
rad30	1.47801e-05	0.999871	1.98212e-05	0.999827
rad68syn	1.21271e-05	0.999883	1.62633e-05	0.999843
rad25	1.17404e-05	0.999895	1.57448e-05	0.999859
rad47	1.06467e-05	0.999906	1.42779e-05	0.999873
rad59	9.00961e-06	0.999915	1.20825e-05	0.999885
rad40syn	8.12773e-06	0.999923	1.08999e-05	0.999896
rad37	7.71935e-06	0.999930	1.03523e-05	0.999906
rad68anti	7.71266e-06	0.999938	1.03433e-05	0.999917
rad64	7.08942e-06	0.999945	9.50744e-06	0.999926
rad40anti	6.27317e-06	0.999952	8.41278e-06	0.999935
rad36	5.26577e-06	0.999957	7.06178e-06	0.999942
rad42	5.12896e-06	0.999962	6.87832e-06	0.999949
rad18	4.92250e-06	0.999967	6.60144e-06	0.999955
rad65	4.60266e-06	0.999971	6.17253e-06	0.999961
rad15	4.08584e-06	0.999976	5.47939e-06	0.999967
rad60syn	4.06062e-06	0.999980	5.44557e-06	0.999972
rad58	3.51411e-06	0.999983	4.71268e-06	0.999977
rad24	3.31111e-06	0.999986	4.44046e-06	0.999981
rad60anti	3.03176e-06	0.999989	4.06582e-06	0.999985
rad8	2.41278e-06	0.999992	3.23572e-06	0.999989
rad26	2.11925e-06	0.999994	2.84206e-06	0.999992
rad12	2.07976e-06	0.999996	2.78911e-06	0.999994
rad10	8.55622e-07	0.999997	1.14746e-06	0.999995
rad3	6.95788e-07	0.999998	9.33103e-07	0.999996
rad61	6.54197e-07	0.999998	8.77327e-07	0.999997
rad43	5.99172e-07	0.999999	8.03534e-07	0.999998
rad4	4.24851e-07	0.999999	5.69758e-07	0.999999
rad14	4.02882e-07	1.000000	5.40292e-07	0.999999
rad2	2.65650e-07	1.000000	3.56257e-07	1.000000
rad41	1.52083e-07	1.000000	2.03955e-07	1.000000
rad1	6.32582e-08	1.000000	8.48339e-08	1.000000
rad27	1.35283e-08	1.000000	1.81425e-08	1.000000
rad5	1.12046e-08	1.000000	1.50262e-08	1.000000

1000000.0 Pa, 2000.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.44111e-11	(1.00)	1.00969e-11	(1.00)
Formation of rad11	3.16882e-12	(0.220)	1.39383e-12	(0.138)
Formation of rad6	4.53302e-12	(0.315)	1.99388e-12	(0.197)
H-abstraction	6.70922e-12	(0.466)	6.70922e-12	(0.664)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.664481	0.664481
Phenyl+Allene	0.299363	0.764923	0.000000	0.664481
PhCH2CCH+H	0.0860550	0.850978	0.122824	0.787305
rad6	0.0516649	0.902643	0.0737397	0.861045
PhCHCCH2+H	0.0420923	0.944735	0.0600773	0.921122
C2H2+PhCH2	0.0156309	0.960366	0.0223096	0.943432
PhCCH+CH3	0.00899312	0.969359	0.0128356	0.956267
PhcycC3H3_A+H	0.00601031	0.975369	0.00857831	0.964846
rad11	0.00585233	0.981222	0.00835291	0.973199
PAH7+H	0.00385124	0.985073	0.00549677	0.978695
Indene+H	0.00324039	0.988313	0.00462493	0.983320
Ph+MeAc	0.00293653	0.991250	0.00419124	0.987512
rad19syn	0.00268695	0.993937	0.00383501	0.991347
rad54	0.000864558	0.994801	0.00123396	0.992581
rad7	0.000837221	0.995639	0.00119494	0.993775
rad39	0.000527805	0.996166	0.000753320	0.994529
PAH1+H	0.000398269	0.996565	0.000568439	0.995097
rad50	0.000304703	0.996869	0.000434896	0.995532
rad51	0.000251024	0.997120	0.000358281	0.995890
PAH9+H	0.000246009	0.997366	0.000351121	0.996242
rad71	0.000219739	0.997586	0.000313627	0.996555
rad56	0.000200258	0.997786	0.000285822	0.996841

rad38	0.000179422	0.997966	0.000256084	0.997097
rad13	0.000159456	0.998125	0.000227587	0.997325
rad19anti	0.000154451	0.998280	0.000220444	0.997545
PAH3+H	0.000131952	0.998412	0.000188332	0.997733
rad53	0.000115763	0.998528	0.000165225	0.997899
PAH8+H	0.000106702	0.998634	0.000152293	0.998051
rad21	0.000104690	0.998739	0.000149421	0.998200
PhCCCH3+H	0.000101987	0.998841	0.000145563	0.998346
rad55	0.000101643	0.998943	0.000145072	0.998491
rad22	0.000101505	0.999044	0.000144874	0.998636
rad46	8.44083e-05	0.999128	0.000120474	0.998756
rad70	8.42908e-05	0.999213	0.000120306	0.998877
PAH10+CH3	7.23728e-05	0.999285	0.000103295	0.998980
rad73	6.83757e-05	0.999353	9.75910e-05	0.999078
rad28	6.55870e-05	0.999419	9.36108e-05	0.999171
rad9	5.87857e-05	0.999478	8.39029e-05	0.999255
rad67	5.70557e-05	0.999535	8.14341e-05	0.999337
rad35	5.53124e-05	0.999590	7.89459e-05	0.999415
rad23	4.56692e-05	0.999636	6.51823e-05	0.999481
rad72	4.26868e-05	0.999679	6.09255e-05	0.999542
rad52	4.17563e-05	0.999720	5.95976e-05	0.999601
rad62	4.04218e-05	0.999761	5.76928e-05	0.999659
rad34	3.57880e-05	0.999797	5.10794e-05	0.999710
rad45	2.64610e-05	0.999823	3.77670e-05	0.999748
rad20	2.21388e-05	0.999845	3.15982e-05	0.999779
rad30	1.43696e-05	0.999860	2.05093e-05	0.999800
rad33	1.37066e-05	0.999873	1.95630e-05	0.999819
rad68syn	1.13101e-05	0.999885	1.61426e-05	0.999836
rad25	1.01500e-05	0.999895	1.44868e-05	0.999850
rad42	1.00047e-05	0.999905	1.42793e-05	0.999864
rad64	9.77089e-06	0.999914	1.39457e-05	0.999878
rad47	9.20348e-06	0.999924	1.31359e-05	0.999891
rad59	8.92060e-06	0.999933	1.27322e-05	0.999904
rad40syn	7.76375e-06	0.999940	1.10810e-05	0.999915
rad68anti	7.19222e-06	0.999948	1.02653e-05	0.999925
rad37	6.55977e-06	0.999954	9.36259e-06	0.999935
rad40anti	6.03334e-06	0.999960	8.61126e-06	0.999943
rad65	4.94558e-06	0.999965	7.05868e-06	0.999950
rad36	4.75482e-06	0.999970	6.78644e-06	0.999957
rad15	4.08356e-06	0.999974	5.82837e-06	0.999963
rad60syn	3.98602e-06	0.999978	5.68913e-06	0.999969
rad18	3.85497e-06	0.999982	5.50207e-06	0.999974
rad58	3.56127e-06	0.999985	5.08291e-06	0.999979
rad60anti	2.97991e-06	0.999988	4.25314e-06	0.999984
rad24	2.91005e-06	0.999991	4.15342e-06	0.999988
rad8	2.00453e-06	0.999993	2.86102e-06	0.999991
rad12	1.79075e-06	0.999995	2.55589e-06	0.999993
rad26	1.17045e-06	0.999996	1.67055e-06	0.999995
rad43	9.13432e-07	0.999997	1.30372e-06	0.999996
rad61	7.02794e-07	0.999998	1.00308e-06	0.999997
rad10	5.17201e-07	0.999998	7.38185e-07	0.999998
rad3	4.04839e-07	0.999999	5.77817e-07	0.999998
rad14	3.93193e-07	0.999999	5.61196e-07	0.999999
rad4	2.50768e-07	0.999999	3.57915e-07	0.999999
rad41	2.49742e-07	1.000000	3.56449e-07	1.000000
rad2	1.61849e-07	1.000000	2.31002e-07	1.000000
rad1	3.88730e-08	1.000000	5.54824e-08	1.000000
rad5	2.98530e-08	1.000000	4.26082e-08	1.000000
rad27	1.17741e-08	1.000000	1.68049e-08	1.000000

10000000.0 Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.23655e-11 (1.00)	1.55430e-11 (1.00)
Formation of rad11	4.62280e-12 (0.207)	1.86783e-12 (0.120)
Formation of rad6	6.82518e-12 (0.305)	2.75769e-12 (0.177)
H-abstraction	1.09175e-11 (0.488)	1.09175e-11 (0.702)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.702405	0.702405
Phenyl+Allene	0.305044	0.793185	0.000000	0.702405
PhCH2CCH+H	0.0820818	0.875266	0.118111	0.820516
PhCHCCH2+H	0.0403406	0.915607	0.0580477	0.878563
rad6	0.0328891	0.948496	0.0473257	0.925889
C2H2+PhCH2	0.0144107	0.962907	0.0207362	0.946625
PhCCH+CH3	0.00890759	0.971814	0.0128175	0.959443
PhcycC3H3_A+H	0.00619054	0.978005	0.00890783	0.968350
PAH7+H	0.00373802	0.981743	0.00537879	0.973729

rad11	0.00360732	0.985350	0.00519071	0.978920
Indene+H	0.00315305	0.988503	0.00453705	0.983457
Ph+MeAc	0.00300676	0.991510	0.00432653	0.987784
rad19syn	0.00269645	0.994207	0.00388005	0.991664
rad54	0.000870873	0.995077	0.00125314	0.992917
rad7	0.000720468	0.995798	0.00103671	0.993953
rad39	0.000503136	0.996301	0.000723984	0.994677
PAH1+H	0.000443929	0.996745	0.000638788	0.995316
rad50	0.000291828	0.997037	0.000419922	0.995736
PAH9+H	0.000253665	0.997291	0.000365009	0.996101
rad51	0.000241667	0.997532	0.000347746	0.996449
rad56	0.000218511	0.997751	0.000314424	0.996763
rad71	0.000211982	0.997963	0.000305029	0.997068
rad38	0.000173221	0.998136	0.000249255	0.997318
rad19anti	0.000148930	0.998285	0.000214301	0.997532
rad13	0.000131691	0.998417	0.000189496	0.997721
rad53	0.000123895	0.998540	0.000178277	0.997900
PAH3+H	0.000117887	0.998658	0.000169632	0.998069
rad55	0.000103551	0.998762	0.000149004	0.998218
PhCCCH3+H	9.56436e-05	0.998857	0.000137625	0.998356
PAH8+H	9.05408e-05	0.998948	0.000130283	0.998486
rad21	8.39942e-05	0.999032	0.000120862	0.998607
rad46	8.10351e-05	0.999113	0.000116605	0.998724
rad70	7.62697e-05	0.999189	0.000109748	0.998833
PAH10+CH3	6.91830e-05	0.999259	9.95504e-05	0.998933
rad22	6.75046e-05	0.999326	9.71354e-05	0.999030
rad73	6.59004e-05	0.999392	9.48266e-05	0.999125
rad9	6.11995e-05	0.999453	8.80626e-05	0.999213
rad35	5.39526e-05	0.999507	7.76345e-05	0.999291
rad67	5.34632e-05	0.999561	7.69307e-05	0.999368
rad28	5.26013e-05	0.999613	7.56898e-05	0.999443
rad62	4.87224e-05	0.999662	7.01087e-05	0.999513
rad72	4.12213e-05	0.999703	5.93149e-05	0.999573
rad52	4.02099e-05	0.999743	5.78596e-05	0.999631
rad23	3.93527e-05	0.999783	5.66261e-05	0.999687
rad34	3.16187e-05	0.999814	4.54972e-05	0.999733
rad45	2.45140e-05	0.999839	3.52743e-05	0.999768
rad20	1.77459e-05	0.999857	2.55353e-05	0.999794
rad30	1.34754e-05	0.999870	1.93903e-05	0.999813
rad42	1.23566e-05	0.999882	1.77804e-05	0.999831
rad33	1.16523e-05	0.999894	1.67669e-05	0.999847
rad64	1.05857e-05	0.999905	1.52322e-05	0.999863
rad68syn	9.58611e-06	0.999914	1.37939e-05	0.999876
rad25	8.55758e-06	0.999923	1.23138e-05	0.999889
rad47	8.09102e-06	0.999931	1.16425e-05	0.999900
rad59	8.01168e-06	0.999939	1.15283e-05	0.999912
rad40syn	6.63099e-06	0.999945	9.54159e-06	0.999921
rad68anti	6.09727e-06	0.999952	8.77364e-06	0.999930
rad37	6.06032e-06	0.999958	8.72046e-06	0.999939
rad65	5.29043e-06	0.999963	7.61257e-06	0.999947
rad40anti	5.16702e-06	0.999968	7.43503e-06	0.999954
rad36	4.40556e-06	0.999972	6.33934e-06	0.999960
rad15	4.38088e-06	0.999977	6.30384e-06	0.999967
rad60syn	3.62633e-06	0.999981	5.21806e-06	0.999972
rad58	3.15330e-06	0.999984	4.53740e-06	0.999976
rad18	3.12265e-06	0.999987	4.49330e-06	0.999981
rad60anti	2.70506e-06	0.999989	3.89243e-06	0.999985
rad24	2.53861e-06	0.999992	3.65292e-06	0.999988
rad12	1.74937e-06	0.999994	2.51724e-06	0.999991
rad8	1.73867e-06	0.999996	2.50185e-06	0.999993
rad26	1.04704e-06	0.999997	1.50663e-06	0.999995
rad43	1.04244e-06	0.999998	1.50001e-06	0.999996
rad61	6.91088e-07	0.999998	9.94432e-07	0.999997
rad10	4.56670e-07	0.999999	6.57120e-07	0.999998
rad14	3.77506e-07	0.999999	5.43209e-07	0.999999
rad3	3.38336e-07	0.999999	4.86845e-07	0.999999
rad41	2.93924e-07	1.000000	4.22939e-07	1.000000
rad4	2.09478e-07	1.000000	3.01425e-07	1.000000
rad2	1.40320e-07	1.000000	2.01913e-07	1.000000
rad5	4.27440e-08	1.000000	6.15061e-08	1.000000
rad1	3.38897e-08	1.000000	4.87654e-08	1.000000
rad27	1.09505e-08	1.000000	1.57571e-08	1.000000

10000000.0 Pa, 2500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.28090e-11 (1.00)	2.30145e-11 (1.00)
Formation of rad11	6.43164e-12 (0.196)	2.53609e-12 (0.110)
Formation of rad6	9.73932e-12 (0.297)	3.84035e-12 (0.167)

H-abstraction | 1.66381e-11 (0.507) 1.66381e-11 (0.723)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.722938	0.722938
Phenyl+Allene	0.298531	0.805650	0.00000	0.722938
PhCH2CCH+H	0.0813550	0.887005	0.115978	0.838916
PhCHCCH2+H	0.0393587	0.926364	0.0561089	0.895025
rad6	0.0253733	0.951737	0.0361718	0.931197
C2H2+PhCH2	0.0135104	0.965247	0.0192601	0.950457
PhCCH+CH3	0.00893964	0.974187	0.0127442	0.963201
PhcycC3H3_A+H	0.00591270	0.980100	0.00842902	0.971630
PAH7+H	0.00372845	0.983828	0.00531521	0.976946
Indene+H	0.00296691	0.986795	0.00422957	0.981175
Ph+MeAc	0.00294618	0.989741	0.00420003	0.985375
rad19syn	0.00260136	0.992343	0.00370844	0.989084
rad11	0.00220499	0.994548	0.00314340	0.992227
rad54	0.000841827	0.995389	0.00120009	0.993427
rad7	0.000698906	0.996088	0.000996344	0.994423
rad39	0.000491199	0.996580	0.000700243	0.995124
PAH1+H	0.000425697	0.997005	0.000606865	0.995730
rad50	0.000269118	0.997274	0.000383650	0.996114
PAH9+H	0.000239650	0.997514	0.000341642	0.996456
rad51	0.000223188	0.997737	0.000318172	0.996774
rad56	0.000203549	0.997941	0.000290175	0.997064
rad71	0.000195807	0.998137	0.000279140	0.997343
rad38	0.000161690	0.998298	0.000230503	0.997574
rad19anti	0.000150941	0.998449	0.000215179	0.997789
rad13	0.000121746	0.998571	0.000173558	0.997963
rad53	0.000116045	0.998687	0.000165431	0.998128
PAH3+H	0.000100336	0.998787	0.000143037	0.998271
rad55	9.92747e-05	0.998887	0.000141524	0.998413
PhCCCH3+H	9.35312e-05	0.998980	0.000133336	0.998546
rad46	7.51684e-05	0.999055	0.000107158	0.998653
PAH8+H	7.32649e-05	0.999129	0.000104445	0.998757
rad70	7.11839e-05	0.999200	0.000101478	0.998859
PAH10+CH3	6.65242e-05	0.999266	9.48357e-05	0.998954
rad21	6.31568e-05	0.999329	9.00353e-05	0.999044
rad9	6.14229e-05	0.999391	8.75637e-05	0.999131
rad73	6.08467e-05	0.999452	8.67416e-05	0.999218
rad67	5.11172e-05	0.999503	7.28714e-05	0.999291
rad35	5.07205e-05	0.999553	7.23059e-05	0.999363
rad28	5.05445e-05	0.999604	7.20549e-05	0.999435
rad22	4.66470e-05	0.999651	6.64992e-05	0.999502
rad62	4.57358e-05	0.999696	6.52001e-05	0.999567
rad72	3.80921e-05	0.999735	5.43035e-05	0.999621
rad52	3.71786e-05	0.999772	5.30011e-05	0.999674
rad23	3.51190e-05	0.999807	5.00650e-05	0.999724
rad34	2.86244e-05	0.999835	4.08065e-05	0.999765
rad45	2.20204e-05	0.999857	3.13919e-05	0.999797
rad20	1.34886e-05	0.999871	1.92291e-05	0.999816
rad30	1.24584e-05	0.999883	1.77605e-05	0.999834
rad42	1.15978e-05	0.999895	1.65337e-05	0.999850
rad33	1.12396e-05	0.999906	1.60230e-05	0.999866
rad64	1.01809e-05	0.999916	1.45137e-05	0.999881
rad68syn	8.03219e-06	0.999924	1.14505e-05	0.999892
rad59	6.91877e-06	0.999931	9.86331e-06	0.999902
rad47	6.89645e-06	0.999938	9.83142e-06	0.999912
rad25	6.75410e-06	0.999945	9.62856e-06	0.999921
rad37	6.07797e-06	0.999951	8.66466e-06	0.999930
rad40syn	5.45807e-06	0.999957	7.78092e-06	0.999938
rad68anti	5.11162e-06	0.999962	7.28705e-06	0.999945
rad65	5.01891e-06	0.999967	7.15484e-06	0.999952
rad15	4.59252e-06	0.999971	6.54699e-06	0.999959
rad40anti	4.23530e-06	0.999976	6.03776e-06	0.999965
rad36	3.96240e-06	0.999979	5.64871e-06	0.999971
rad60syn	3.21338e-06	0.999983	4.58094e-06	0.999975
rad58	2.59427e-06	0.999985	3.69833e-06	0.999979
rad18	2.38753e-06	0.999988	3.40362e-06	0.999982
rad60anti	2.38731e-06	0.999990	3.40329e-06	0.999986
rad24	2.11527e-06	0.999992	3.01548e-06	0.999989
rad12	1.78770e-06	0.999994	2.54850e-06	0.999991
rad8	1.57107e-06	0.999996	2.23968e-06	0.999993
rad26	1.13643e-06	0.999997	1.62007e-06	0.999995
rad43	9.83476e-07	0.999998	1.40202e-06	0.999996
rad61	6.52255e-07	0.999998	9.29844e-07	0.999997
rad10	4.79825e-07	0.999999	6.84029e-07	0.999998
rad14	3.45224e-07	0.999999	4.92145e-07	0.999999
rad3	3.14533e-07	0.999999	4.48391e-07	0.999999
rad41	2.76151e-07	1.000000	3.93674e-07	0.999999

rad4	1.93485e-07	1.000000	2.75828e-07	1.000000
rad2	1.32435e-07	1.000000	1.88797e-07	1.000000
rad5	4.62335e-08	1.000000	6.59096e-08	1.000000
rad1	3.13949e-08	1.000000	4.47560e-08	1.000000
rad27	1.03303e-08	1.000000	1.47267e-08	1.000000

10000000.0 Pa, 2750.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	4.60596e-11	(1.00)	3.26374e-11	(1.00)
Formation of rad11	8.62280e-12	(0.187)	3.35103e-12	(0.103)
Formation of rad6	1.33313e-11	(0.289)	5.18087e-12	(0.159)
H-abstraction	2.41055e-11	(0.523)	2.41055e-11	(0.739)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.738586	0.738586
Phenyl+Allene	0.291410	0.814764	0.000000	0.738586
PhCH2CCH+H	0.0816789	0.896443	0.115269	0.853855
PhCHCCH2+H	0.0384701	0.934913	0.0542911	0.908146
rad6	0.0196256	0.954539	0.0276966	0.935842
C2H2+PhCH2	0.0128667	0.967406	0.0181582	0.954001
PhCCH+CH3	0.00897366	0.976379	0.0126641	0.966665
PhcycC3H3_A+H	0.00545516	0.981834	0.00769860	0.974363
PAH7+H	0.00374994	0.985584	0.00529210	0.979655
Ph+MeAc	0.00286994	0.988454	0.00405023	0.983706
Indene+H	0.00270659	0.991161	0.00381968	0.987525
rad19syn	0.00246452	0.993625	0.00347807	0.991003
rad11	0.00134026	0.994966	0.00189145	0.992895
rad54	0.000820388	0.995786	0.00115777	0.994053
rad7	0.000649267	0.996435	0.000916281	0.994969
rad39	0.000475979	0.996911	0.000671725	0.995641
PAH1+H	0.000387352	0.997299	0.000546652	0.996187
rad50	0.000239628	0.997538	0.000338176	0.996525
PAH9+H	0.000214934	0.997753	0.000303327	0.996829
rad51	0.000198313	0.997951	0.000279870	0.997109
rad56	0.000182825	0.998134	0.000258013	0.997367
rad71	0.000173496	0.998308	0.000244846	0.997611
rad19anti	0.000155541	0.998463	0.000219508	0.997831
rad38	0.000146281	0.998610	0.000206439	0.998037
rad13	0.000108996	0.998719	0.000153821	0.998191
rad53	0.000106034	0.998825	0.000149640	0.998341
rad55	9.54540e-05	0.998920	0.000134710	0.998476
PhCCCH3+H	9.25760e-05	0.999013	0.000130648	0.998606
PAH3+H	8.74520e-05	0.999100	0.000123417	0.998730
rad70	6.92718e-05	0.999169	9.77604e-05	0.998827
rad46	6.75478e-05	0.999237	9.53266e-05	0.998923
PAH10+CH3	6.42747e-05	0.999301	9.07074e-05	0.999013
PAH8+H	6.07651e-05	0.999362	8.57552e-05	0.999099
rad9	5.73252e-05	0.999419	8.09002e-05	0.999180
rad73	5.39305e-05	0.999473	7.61098e-05	0.999256
rad67	4.94467e-05	0.999523	6.97817e-05	0.999326
rad35	4.68604e-05	0.999570	6.61319e-05	0.999392
rad28	4.63452e-05	0.999616	6.54046e-05	0.999457
rad21	4.55731e-05	0.999661	6.43150e-05	0.999522
rad62	3.92859e-05	0.999701	5.54424e-05	0.999577
rad72	3.37341e-05	0.999734	4.76072e-05	0.999625
rad52	3.31102e-05	0.999768	4.67268e-05	0.999672
rad22	3.12403e-05	0.999799	4.40881e-05	0.999716
rad23	3.00644e-05	0.999829	4.24284e-05	0.999758
rad34	2.72844e-05	0.999856	3.85050e-05	0.999797
rad45	1.90394e-05	0.999875	2.68695e-05	0.999823
rad30	1.16066e-05	0.999887	1.63798e-05	0.999840
rad33	1.05620e-05	0.999897	1.49056e-05	0.999855
rad20	9.97790e-06	0.999907	1.40814e-05	0.999869
rad42	9.85407e-06	0.999917	1.39066e-05	0.999883
rad64	9.40540e-06	0.999927	1.32734e-05	0.999896
rad68syn	7.08428e-06	0.999934	9.99769e-06	0.999906
rad37	6.26579e-06	0.999940	8.84258e-06	0.999915
rad59	6.12904e-06	0.999946	8.64963e-06	0.999924
rad47	5.70306e-06	0.999952	8.04843e-06	0.999932
rad25	5.09129e-06	0.999957	7.18511e-06	0.999939
rad40syn	4.64548e-06	0.999962	6.55594e-06	0.999945
rad68anti	4.51131e-06	0.999966	6.36659e-06	0.999952
rad15	4.48515e-06	0.999971	6.32968e-06	0.999958
rad65	4.43038e-06	0.999975	6.25238e-06	0.999964
rad40anti	3.56961e-06	0.999979	5.03761e-06	0.999969
rad36	3.43173e-06	0.999982	4.84304e-06	0.999974
rad60syn	2.91414e-06	0.999985	4.11257e-06	0.999978

rad58	2.16352e-06	0.999987	3.05327e-06	0.999981
rad60anti	2.15752e-06	0.999989	3.04480e-06	0.999984
rad12	1.78699e-06	0.999991	2.52190e-06	0.999987
rad18	1.74038e-06	0.999993	2.45611e-06	0.999989
rad24	1.70116e-06	0.999994	2.40076e-06	0.999992
rad8	1.44811e-06	0.999996	2.04365e-06	0.999994
rad26	1.17785e-06	0.999997	1.66225e-06	0.999995
rad43	8.69802e-07	0.999998	1.22751e-06	0.999997
rad61	6.03900e-07	0.999999	8.52253e-07	0.999997
rad10	4.99100e-07	0.999999	7.04355e-07	0.999998
rad14	3.06616e-07	0.999999	4.32712e-07	0.999999
rad3	2.82590e-07	1.000000	3.98806e-07	0.999999
rad41	2.39284e-07	1.000000	3.37690e-07	0.999999
rad4	1.73280e-07	1.000000	2.44541e-07	1.000000
rad2	1.19509e-07	1.000000	1.68657e-07	1.000000
rad5	4.62379e-08	1.000000	6.52532e-08	1.000000
rad1	2.77237e-08	1.000000	3.91251e-08	1.000000
rad27	9.61723e-09	1.000000	1.35723e-08	1.000000

10000000.0 Pa, 3000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.45906e-11 (1.00)
Formation of rad11	1.12221e-11 (0.180)	4.29024e-12 (0.0962)
Formation of rad6	1.76534e-11 (0.283)	6.74898e-12 (0.151)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.752)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.752432	0.752432
Phenyl+Allene	0.285714	0.823166	0.000000	0.752432
PhCH2CCH+H	0.0818045	0.904970	0.114526	0.866958
PhCHCCH2+H	0.0374318	0.942402	0.0524044	0.919362
rad6	0.0145800	0.956982	0.0204120	0.939774
C2H2+PhCH2	0.0124071	0.969389	0.0173699	0.957144
PhCCH+CH3	0.00890374	0.978293	0.0124652	0.969610
PhcycC3H3_A+H	0.00499825	0.983291	0.00699756	0.976607
PAH7+H	0.00374280	0.987034	0.00523992	0.981847
Ph+MeAc	0.00280096	0.989835	0.00392135	0.985768
Indene+H	0.00241424	0.992249	0.00337995	0.989148
rad19syn	0.00232875	0.994578	0.00326025	0.992409
rad11	0.000822375	0.995400	0.00115132	0.993560
rad54	0.000813933	0.996214	0.00113950	0.994699
rad7	0.000561775	0.996776	0.000786484	0.995486
rad39	0.000452375	0.997228	0.000633323	0.996119
PAH1+H	0.000349408	0.997578	0.000489170	0.996608
rad50	0.000208648	0.997786	0.000292108	0.996900
PAH9+H	0.000188136	0.997975	0.000263390	0.997164
rad51	0.000171789	0.998146	0.000240504	0.997404
rad56	0.000167203	0.998314	0.000234085	0.997638
rad19anti	0.000158572	0.998472	0.000222001	0.997860
rad71	0.000149261	0.998621	0.000208965	0.998069
rad38	0.000129736	0.998751	0.000181630	0.998251
rad53	9.90178e-05	0.998850	0.000138625	0.998390
rad55	9.37299e-05	0.998944	0.000131222	0.998521
rad13	9.21526e-05	0.999036	0.000129013	0.998650
PhCCCH3+H	9.10781e-05	0.999127	0.000127509	0.998777
PAH3+H	8.02952e-05	0.999207	0.000112413	0.998890
rad70	6.94535e-05	0.999277	9.72350e-05	0.998987
PAH10+CH3	6.22096e-05	0.999339	8.70934e-05	0.999074
rad46	5.95078e-05	0.999399	8.33108e-05	0.999157
PAH8+H	5.42343e-05	0.999453	7.59279e-05	0.999233
rad9	4.97499e-05	0.999503	6.96500e-05	0.999303
rad67	4.81032e-05	0.999551	6.73447e-05	0.999370
rad73	4.64584e-05	0.999597	6.50415e-05	0.999435
rad35	4.31557e-05	0.999640	6.04180e-05	0.999496
rad28	3.87941e-05	0.999679	5.43117e-05	0.999550
rad62	3.28252e-05	0.999712	4.59553e-05	0.999596
rad21	3.23010e-05	0.999744	4.52213e-05	0.999641
rad72	2.89683e-05	0.999773	4.05556e-05	0.999682
rad52	2.87789e-05	0.999802	4.02904e-05	0.999722
rad34	2.72300e-05	0.999829	3.81220e-05	0.999760
rad23	2.45356e-05	0.999854	3.43498e-05	0.999795
rad22	2.03940e-05	0.999874	2.85515e-05	0.999823
rad45	1.59526e-05	0.999890	2.23336e-05	0.999846
rad30	1.09201e-05	0.999901	1.52882e-05	0.999861
rad33	9.35856e-06	0.999910	1.31020e-05	0.999874
rad64	8.67390e-06	0.999919	1.21434e-05	0.999886
rad42	8.07670e-06	0.999927	1.13074e-05	0.999897

rad20	7.34712e-06	0.999934	1.02860e-05	0.999908
rad68syn	6.75178e-06	0.999941	9.45244e-06	0.999917
rad37	6.39182e-06	0.999948	8.94857e-06	0.999926
rad59	5.69023e-06	0.999953	7.96629e-06	0.999934
rad47	4.62817e-06	0.999958	6.47942e-06	0.999941
rad68anti	4.30167e-06	0.999962	6.02234e-06	0.999947
rad40syn	4.25968e-06	0.999966	5.96354e-06	0.999953
rad15	4.05439e-06	0.999971	5.67614e-06	0.999958
rad65	3.77976e-06	0.999974	5.29167e-06	0.999963
rad25	3.75055e-06	0.999978	5.25077e-06	0.999969
rad40anti	3.23414e-06	0.999981	4.52779e-06	0.999973
rad36	2.88011e-06	0.999984	4.03214e-06	0.999977
rad60syn	2.73633e-06	0.999987	3.83087e-06	0.999981
rad60anti	2.02292e-06	0.999989	2.83208e-06	0.999984
rad58	1.91530e-06	0.999991	2.68141e-06	0.999987
rad12	1.69989e-06	0.999993	2.37985e-06	0.999989
rad24	1.34114e-06	0.999994	1.87760e-06	0.999991
rad8	1.33980e-06	0.999995	1.87572e-06	0.999993
rad18	1.23778e-06	0.999996	1.73289e-06	0.999995
rad26	1.10326e-06	0.999998	1.54456e-06	0.999996
rad43	7.58663e-07	0.999998	1.06213e-06	0.999997
rad61	5.56807e-07	0.999999	7.79527e-07	0.999998
rad10	4.82290e-07	0.999999	6.75204e-07	0.999999
rad14	2.67312e-07	1.000000	3.74236e-07	0.999999
rad3	2.39641e-07	1.000000	3.35497e-07	0.999999
rad41	2.02438e-07	1.000000	2.83413e-07	1.000000
rad4	1.47250e-07	1.000000	2.06150e-07	1.000000
rad2	1.01290e-07	1.000000	1.41805e-07	1.000000
rad5	4.46454e-08	1.000000	6.25035e-08	1.000000
rad1	2.31414e-08	1.000000	3.23980e-08	1.000000
rad27	8.72617e-09	1.000000	1.22166e-08	1.000000

10000000.0 Pa, 3250.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	8.22129e-11	(1.00)	5.90884e-11	(1.00)
Formation of rad11	1.42538e-11	(0.173)	5.34744e-12	(0.0905)
Formation of rad6	2.27549e-11	(0.277)	8.53669e-12	(0.144)
H-abstraction	4.52043e-11	(0.550)	4.52043e-11	(0.765)
species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.549844	0.549844	0.765028	0.765028
Phenyl+Allene	0.281276	0.831120	0.000000	0.765028
PhCH2CCH+H	0.0813175	0.912437	0.113141	0.878169
PhCHCCH2+H	0.0362380	0.948675	0.0504198	0.928589
C2H2+PhCH2	0.0120745	0.960750	0.0168000	0.945389
rad6	0.0104148	0.971165	0.0144906	0.959880
PhCCH+CH3	0.00870102	0.979866	0.0121062	0.971986
PhcycC3H3_A+H	0.00465344	0.984519	0.00647459	0.978461
PAH7+H	0.00368096	0.988200	0.00512152	0.983582
Ph+MeAc	0.00274285	0.990943	0.00381628	0.987398
rad19syn	0.00222103	0.993164	0.00309024	0.990489
Indene+H	0.00211928	0.995283	0.00294867	0.993437
rad54	0.000818789	0.996102	0.00113923	0.994576
rad11	0.000514834	0.996617	0.000716320	0.995293
rad7	0.000456742	0.997074	0.000635491	0.995928
rad39	0.000420903	0.997495	0.000585626	0.996514
PAH1+H	0.000321339	0.997816	0.000447096	0.996961
rad50	0.000179756	0.997996	0.000250104	0.997211
PAH9+H	0.000163185	0.998159	0.000227048	0.997438
rad56	0.000160472	0.998319	0.000223274	0.997661
rad19anti	0.000157748	0.998477	0.000219484	0.997881
rad51	0.000146867	0.998624	0.000204344	0.998085
rad71	0.000126164	0.998750	0.000175539	0.998261
rad38	0.000113850	0.998864	0.000158406	0.998419
rad53	9.65373e-05	0.998960	0.000134318	0.998554
rad55	9.39899e-05	0.999054	0.000130773	0.998684
PhCCCH3+H	8.84975e-05	0.999143	0.000123132	0.998807
PAH3+H	7.74548e-05	0.999220	0.000107767	0.998915
rad13	7.41213e-05	0.999295	0.000103129	0.999018
rad70	7.06605e-05	0.999365	9.83140e-05	0.999117
PAH10+CH3	6.02178e-05	0.999425	8.37845e-05	0.999200
PAH8+H	5.32242e-05	0.999479	7.40536e-05	0.999274
rad46	5.19233e-05	0.999531	7.22438e-05	0.999347
rad67	4.69198e-05	0.999577	6.52823e-05	0.999412
rad9	4.05931e-05	0.999618	5.64795e-05	0.999468
rad35	3.98820e-05	0.999658	5.54901e-05	0.999524
rad73	3.93708e-05	0.999697	5.47788e-05	0.999579

rad28	3.00312e-05	0.999727	4.17839e-05	0.999621
rad62	2.79887e-05	0.999755	3.89422e-05	0.999659
rad34	2.79654e-05	0.999783	3.89097e-05	0.999698
rad52	2.47095e-05	0.999808	3.43797e-05	0.999733
rad72	2.43941e-05	0.999832	3.39410e-05	0.999767
rad21	2.28403e-05	0.999855	3.17790e-05	0.999798
rad23	1.93374e-05	0.999875	2.69052e-05	0.999825
rad22	1.32192e-05	0.999888	1.83927e-05	0.999844
rad45	1.30444e-05	0.999901	1.81494e-05	0.999862
rad30	1.03256e-05	0.999911	1.43666e-05	0.999876
rad64	8.17704e-06	0.999919	1.13772e-05	0.999888
rad33	7.85324e-06	0.999927	1.09267e-05	0.999899
rad68syn	6.91287e-06	0.999934	9.61825e-06	0.999908
rad42	6.71340e-06	0.999941	9.34075e-06	0.999918
rad37	6.33653e-06	0.999947	8.81639e-06	0.999926
rad59	5.50379e-06	0.999953	7.65769e-06	0.999934
rad20	5.45783e-06	0.999958	7.59381e-06	0.999942
rad68anti	4.40498e-06	0.999963	6.12890e-06	0.999948
rad40syn	4.25280e-06	0.999967	5.91716e-06	0.999954
rad47	3.72756e-06	0.999971	5.18637e-06	0.999959
rad15	3.42516e-06	0.999974	4.76561e-06	0.999964
rad40anti	3.19987e-06	0.999977	4.45216e-06	0.999968
rad65	3.18530e-06	0.999980	4.43188e-06	0.999973
rad25	2.74327e-06	0.999983	3.81686e-06	0.999976
rad60syn	2.63921e-06	0.999986	3.67207e-06	0.999980
rad36	2.35835e-06	0.999988	3.28129e-06	0.999983
rad60anti	1.95249e-06	0.999990	2.71661e-06	0.999986
rad58	1.81856e-06	0.999992	2.53025e-06	0.999989
rad12	1.53355e-06	0.999993	2.13371e-06	0.999991
rad8	1.23298e-06	0.999995	1.71551e-06	0.999992
rad24	1.04744e-06	0.999996	1.45737e-06	0.999994
rad26	9.40182e-07	0.999997	1.30812e-06	0.999995
rad18	8.73577e-07	0.999997	1.21546e-06	0.999996
rad43	6.76112e-07	0.999998	9.40713e-07	0.999997
rad61	5.19147e-07	0.999999	7.22318e-07	0.999998
rad10	4.30224e-07	0.999999	5.98594e-07	0.999999
rad14	2.32571e-07	0.999999	3.23589e-07	0.999999
rad3	1.93328e-07	1.000000	2.68989e-07	0.999999
rad41	1.74514e-07	1.000000	2.42811e-07	0.999999
rad4	1.19683e-07	1.000000	1.66522e-07	1.000000
rad2	8.14017e-08	1.000000	1.13259e-07	1.000000
rad5	4.18184e-08	1.000000	5.81843e-08	1.000000
rad1	1.84821e-08	1.000000	2.57151e-08	1.000000
rad27	7.73490e-09	1.000000	1.07620e-08	1.000000

10000000.0 Pa, 3500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.05713e-10 (1.00)	7.63724e-11 (1.00)
Formation of rad11	1.77412e-11 (0.168)	6.52832e-12 (0.0855)
Formation of rad6	2.86822e-11 (0.271)	1.05543e-11 (0.138)
H-abstraction	5.92897e-11 (0.561)	5.92897e-11 (0.776)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.776324	0.776324
Phenyl+Allene	0.277551	0.838405	0.000000	0.776324
PhCH2CCH+H	0.0802543	0.918660	0.111087	0.887411
PhCHCCH2+H	0.0349729	0.953633	0.0484088	0.935820
C2H2+PhCH2	0.0118323	0.965465	0.0163781	0.952198
PhCCH+CH3	0.00839189	0.973857	0.0116159	0.963814
rad6	0.00723602	0.981093	0.0100159	0.973829
PhcycC3H3_A+H	0.00445869	0.985552	0.00617162	0.980001
PAH7+H	0.00356489	0.989116	0.00493447	0.984936
Ph+MeAc	0.00269528	0.991812	0.00373076	0.988666
rad19syn	0.00214879	0.993961	0.00297431	0.991641
Indene+H	0.00183996	0.995800	0.00254684	0.994187
rad54	0.000827921	0.996628	0.00114599	0.995333
rad39	0.000384839	0.997013	0.000532687	0.995866
rad7	0.000354716	0.997368	0.000490991	0.996357
rad11	0.000330711	0.997699	0.000457764	0.996815
PAH1+H	0.000306093	0.998005	0.000423689	0.997239
rad56	0.000162426	0.998167	0.000224826	0.997463
rad50	0.000154653	0.998322	0.000214067	0.997677
rad19anti	0.000152793	0.998475	0.000211493	0.997889
PAH9+H	0.000141344	0.998616	0.000195646	0.998085
rad51	0.000125178	0.998741	0.000173269	0.998258
rad71	0.000105952	0.998847	0.000146657	0.998405
rad38	9.94480e-05	0.998947	0.000137654	0.998542

rad53	9.81648e-05	0.999045	0.000135878	0.998678
rad55	9.54171e-05	0.999140	0.000132074	0.998810
PhCCCH3+H	8.50352e-05	0.999225	0.000117704	0.998928
PAH3+H	7.72804e-05	0.999302	0.000106970	0.999035
rad70	7.21555e-05	0.999375	9.98762e-05	0.999135
PAH10+CH3	5.82452e-05	0.999433	8.06220e-05	0.999215
rad13	5.75566e-05	0.999490	7.96687e-05	0.999295
PAH8+H	5.67771e-05	0.999547	7.85897e-05	0.999374
rad67	4.58156e-05	0.999593	6.34173e-05	0.999437
rad46	4.51863e-05	0.999638	6.25458e-05	0.999500
rad35	3.70687e-05	0.999675	5.13097e-05	0.999551
rad73	3.31930e-05	0.999708	4.59453e-05	0.999597
rad9	3.15880e-05	0.999740	4.37235e-05	0.999641
rad34	2.90864e-05	0.999769	4.02608e-05	0.999681
rad62	2.55222e-05	0.999795	3.53274e-05	0.999716
rad28	2.19955e-05	0.999817	3.04459e-05	0.999747
rad52	2.11577e-05	0.999838	2.92861e-05	0.999776
rad72	2.03633e-05	0.999858	2.81865e-05	0.999804
rad21	1.62677e-05	0.999874	2.25175e-05	0.999827
rad23	1.48974e-05	0.999889	2.06207e-05	0.999847
rad45	1.04690e-05	0.999900	1.44910e-05	0.999862
rad30	9.76954e-06	0.999910	1.35228e-05	0.999875
rad22	8.63232e-06	0.999918	1.19487e-05	0.999887
rad64	7.94959e-06	0.999926	1.10037e-05	0.999898
rad68syn	7.42340e-06	0.999934	1.02753e-05	0.999908
rad33	6.32571e-06	0.999940	8.75591e-06	0.999917
rad37	6.08726e-06	0.999946	8.42585e-06	0.999926
rad42	5.97167e-06	0.999952	8.26588e-06	0.999934
rad59	5.46393e-06	0.999957	7.56304e-06	0.999941
rad68anti	4.72951e-06	0.999962	6.54648e-06	0.999948
rad40syn	4.54485e-06	0.999967	6.29093e-06	0.999954
rad20	4.11864e-06	0.999971	5.70094e-06	0.999960
rad40anti	3.40962e-06	0.999974	4.71954e-06	0.999965
rad47	3.00878e-06	0.999977	4.16469e-06	0.999969
rad15	2.74425e-06	0.999980	3.79853e-06	0.999973
rad65	2.68850e-06	0.999983	3.72136e-06	0.999976
rad60syn	2.58413e-06	0.999985	3.57689e-06	0.999980
rad25	2.01220e-06	0.999987	2.78526e-06	0.999983
rad60anti	1.91619e-06	0.999989	2.65235e-06	0.999985
rad36	1.89467e-06	0.999991	2.62256e-06	0.999988
rad58	1.82695e-06	0.999993	2.52884e-06	0.999991
rad12	1.32237e-06	0.999994	1.83040e-06	0.999992
rad8	1.12445e-06	0.999995	1.55645e-06	0.999994
rad24	8.15559e-07	0.999996	1.12888e-06	0.999995
rad26	7.45278e-07	0.999997	1.03160e-06	0.999996
rad43	6.33384e-07	0.999998	8.76716e-07	0.999997
rad18	6.18268e-07	0.999998	8.55793e-07	0.999998
rad61	4.94500e-07	0.999999	6.84478e-07	0.999998
rad10	3.59082e-07	0.999999	4.97035e-07	0.999999
rad14	2.05779e-07	0.999999	2.84836e-07	0.999999
rad41	1.59457e-07	0.999999	2.20717e-07	0.999999
rad3	1.50600e-07	1.000000	2.08458e-07	1.000000
rad4	9.44018e-08	1.000000	1.30669e-07	1.000000
rad2	6.29906e-08	1.000000	8.71902e-08	1.000000
rad5	3.81561e-08	1.000000	5.28150e-08	1.000000
rad1	1.43378e-08	1.000000	1.98462e-08	1.000000
rad27	6.77619e-09	1.000000	9.37949e-09	1.000000

10000000.0 Pa, 3750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.33217e-10 (1.00)	9.66986e-11 (1.00)
Formation of rad11	2.17064e-11 (0.163)	7.84503e-12 (0.0811)
Formation of rad6	3.54800e-11 (0.266)	1.28230e-11 (0.133)
H-abstraction	7.60305e-11 (0.571)	7.60305e-11 (0.786)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.786263	0.786263
Phenyl+Allene	0.274127	0.844854	0.00000	0.786263
PhCH2CCH+H	0.0788050	0.923659	0.108566	0.894829
PhCHCCH2+H	0.0337254	0.957385	0.0464619	0.941291
C2H2+PhCH2	0.0116573	0.969042	0.0160597	0.957351
PhCCH+CH3	0.00802264	0.977065	0.0110524	0.968403
rad6	0.00495351	0.982018	0.00682418	0.975227
PhcycC3H3_A+H	0.00439829	0.986417	0.00605931	0.981287
PAH7+H	0.00340888	0.989825	0.00469624	0.985983
Ph+MeAc	0.00265696	0.992482	0.00366037	0.989643
rad19syn	0.00210584	0.994588	0.00290111	0.992544

Indene+H	0.00158695	0.996175	0.00218625	0.994731
rad54	0.000835082	0.997010	0.00115045	0.995881
rad39	0.000347879	0.997358	0.000479255	0.996360
PAH1+H	0.000303029	0.997661	0.000417468	0.996778
rad7	0.000267402	0.997929	0.000368386	0.997146
rad11	0.000218542	0.998147	0.000301074	0.997447
rad56	0.000170863	0.998318	0.000235388	0.997683
rad19anti	0.000144697	0.998463	0.000199342	0.997882
rad50	0.000133741	0.998596	0.000184248	0.998066
PAH9+H	0.000122666	0.998719	0.000168990	0.998235
rad51	0.000107194	0.998826	0.000147676	0.998383
rad53	0.000102594	0.998929	0.000141339	0.998524
rad55	9.71178e-05	0.999026	0.000133794	0.998658
rad71	8.93626e-05	0.999115	0.000123111	0.998781
rad38	8.67496e-05	0.999202	0.000119510	0.998901
PhCCCH3+H	8.11716e-05	0.999283	0.000111826	0.999012
PAH3+H	7.85127e-05	0.999362	0.000108163	0.999121
rad70	7.35052e-05	0.999435	0.000101264	0.999222
PAH8+H	6.38243e-05	0.999499	8.79278e-05	0.999310
PAH10+CH3	5.62721e-05	0.999555	7.75234e-05	0.999387
rad67	4.47392e-05	0.999600	6.16350e-05	0.999449
rad13	4.37854e-05	0.999644	6.03210e-05	0.999509
rad46	3.93798e-05	0.999683	5.42517e-05	0.999563
rad35	3.46503e-05	0.999718	4.77359e-05	0.999611
rad34	3.03128e-05	0.999748	4.17603e-05	0.999653
rad73	2.81308e-05	0.999776	3.87545e-05	0.999692
rad62	2.56125e-05	0.999802	3.52851e-05	0.999727
rad9	2.37827e-05	0.999826	3.27643e-05	0.999760
rad52	1.81914e-05	0.999844	2.50613e-05	0.999785
rad72	1.70384e-05	0.999861	2.34730e-05	0.999808
rad28	1.55689e-05	0.999877	2.14485e-05	0.999830
rad21	1.17379e-05	0.999888	1.61708e-05	0.999846
rad23	1.13226e-05	0.999900	1.55985e-05	0.999862
rad30	9.23022e-06	0.999909	1.27160e-05	0.999874
rad45	8.28741e-06	0.999917	1.14172e-05	0.999886
rad68syn	8.15322e-06	0.999925	1.12323e-05	0.999897
rad64	7.94112e-06	0.999933	1.09401e-05	0.999908
rad42	5.91461e-06	0.999939	8.14826e-06	0.999916
rad22	5.73114e-06	0.999945	7.89552e-06	0.999924
rad37	5.69525e-06	0.999951	7.84606e-06	0.999932
rad59	5.49418e-06	0.999956	7.56908e-06	0.999939
rad68anti	5.19257e-06	0.999961	7.15353e-06	0.999946
rad40syn	5.05310e-06	0.999966	6.96140e-06	0.999953
rad33	4.95965e-06	0.999971	6.83265e-06	0.999960
rad40anti	3.80149e-06	0.999975	5.23713e-06	0.999965
rad20	3.16737e-06	0.999978	4.36352e-06	0.999970
rad60syn	2.54597e-06	0.999981	3.50746e-06	0.999973
rad47	2.45304e-06	0.999983	3.37943e-06	0.999977
rad65	2.29326e-06	0.999986	3.15931e-06	0.999980
rad15	2.11701e-06	0.999988	2.91650e-06	0.999983
rad58	1.90060e-06	0.999990	2.61836e-06	0.999985
rad60anti	1.89411e-06	0.999991	2.60943e-06	0.999988
rad36	1.50071e-06	0.999993	2.06746e-06	0.999990
rad25	1.48908e-06	0.999994	2.05143e-06	0.999992
rad12	1.10257e-06	0.999996	1.51895e-06	0.999994
rad8	1.01555e-06	0.999997	1.39907e-06	0.999995
rad24	6.35560e-07	0.999997	8.75576e-07	0.999996
rad43	6.32941e-07	0.999998	8.71969e-07	0.999997
rad26	5.62206e-07	0.999998	7.74524e-07	0.999998
rad61	4.82155e-07	0.999999	6.64238e-07	0.999998
rad18	4.41614e-07	0.999999	6.08391e-07	0.999999
rad10	2.85475e-07	1.000000	3.93284e-07	0.999999
rad14	1.87578e-07	1.000000	2.58416e-07	1.000000
rad41	1.58301e-07	1.000000	2.18084e-07	1.000000
rad3	1.14973e-07	1.000000	1.58393e-07	1.000000
rad4	7.32962e-08	1.000000	1.00977e-07	1.000000
rad2	4.76609e-08	1.000000	6.56601e-08	1.000000
rad5	3.41523e-08	1.000000	4.70498e-08	1.000000
rad1	1.09540e-08	1.000000	1.50907e-08	1.000000
rad27	5.95011e-09	1.000000	8.19714e-09	1.000000

10000000.0 Pa, 4000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.65008e-10 (1.00)	1.20325e-10 (1.00)
Formation of rad11	2.61707e-11 (0.159)	9.31117e-12 (0.0774)
Formation of rad6	4.31906e-11 (0.262)	1.53666e-11 (0.128)
H-abstraction	9.56470e-11 (0.580)	9.56470e-11 (0.795)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.579650	0.579650	0.794907	0.794907
Phenyl+Allene	0.270796	0.850445	0.00000	0.794907
PhCH2CCH+H	0.0771578	0.927603	0.105811	0.900718
PhCHCCH2+H	0.0325559	0.960159	0.0446457	0.945364
C2H2+PhCH2	0.0115331	0.971692	0.0158160	0.961180
PhCCH+CH3	0.00763550	0.979328	0.0104710	0.971651
PhcycC3H3_A+H	0.00443268	0.983760	0.00607878	0.977729
rad6	0.00337992	0.987140	0.00463508	0.982364
PAH7+H	0.00323014	0.990370	0.00442968	0.986794
Ph+MeAc	0.00262618	0.992997	0.00360144	0.990396
rad19syn	0.00208104	0.995078	0.00285385	0.993249
Indene+H	0.00136527	0.996443	0.00187228	0.995122
rad54	0.000836447	0.997279	0.00114707	0.996269
rad39	0.000312779	0.997592	0.000428932	0.996698
PAH1+H	0.000310076	0.997902	0.000425224	0.997123
rad7	0.000198328	0.998100	0.000271980	0.997395
rad56	0.000183080	0.998284	0.000251069	0.997646
rad11	0.000148701	0.998432	0.000203922	0.997850
rad19anti	0.000134836	0.998567	0.000184908	0.998035
rad50	0.000116691	0.998684	0.000160025	0.998195
rad53	0.000108407	0.998792	0.000148665	0.998343
PAH9+H	0.000106777	0.998899	0.000146429	0.998490
rad55	9.84347e-05	0.998997	0.000134989	0.998625
rad51	9.26932e-05	0.999090	0.000127115	0.998752
PAH3+H	8.03264e-05	0.999170	0.000110156	0.998862
PhCCCH3+H	7.73571e-05	0.999248	0.000106084	0.998968
rad71	7.64348e-05	0.999324	0.000104819	0.999073
rad38	7.56837e-05	0.999400	0.000103789	0.999177
rad70	7.44869e-05	0.999474	0.000102148	0.999279
PAH8+H	7.33520e-05	0.999548	0.000100592	0.999380
PAH10+CH3	5.43025e-05	0.999602	7.44679e-05	0.999454
rad67	4.36542e-05	0.999646	5.98652e-05	0.999514
rad46	3.44337e-05	0.999680	4.72208e-05	0.999561
rad13	3.30382e-05	0.999713	4.53073e-05	0.999606
rad35	3.25430e-05	0.999746	4.46281e-05	0.999651
rad34	3.14679e-05	0.999777	4.31538e-05	0.999694
rad62	2.80870e-05	0.999805	3.85173e-05	0.999733
rad73	2.41746e-05	0.999829	3.31521e-05	0.999766
rad9	1.75530e-05	0.999847	2.40714e-05	0.999790
rad52	1.57705e-05	0.999863	2.16269e-05	0.999812
rad72	1.44487e-05	0.999877	1.98144e-05	0.999831
rad28	1.08350e-05	0.999888	1.48587e-05	0.999846
rad68syn	8.99697e-06	0.999897	1.23381e-05	0.999859
rad30	8.70550e-06	0.999906	1.19383e-05	0.999871
rad21	8.60924e-06	0.999914	1.18063e-05	0.999882
rad23	8.55073e-06	0.999923	1.17261e-05	0.999894
rad64	8.07607e-06	0.999931	1.10752e-05	0.999905
rad42	6.51568e-06	0.999937	8.93535e-06	0.999914
rad45	6.50089e-06	0.999944	8.91501e-06	0.999923
rad68anti	5.72732e-06	0.999950	7.85420e-06	0.999931
rad40syn	5.70327e-06	0.999955	7.82123e-06	0.999939
rad59	5.54766e-06	0.999961	7.60783e-06	0.999946
rad37	5.22857e-06	0.999966	7.17026e-06	0.999953
rad40anti	4.31826e-06	0.999971	5.92186e-06	0.999959
rad22	3.88878e-06	0.999974	5.33291e-06	0.999965
rad33	3.83036e-06	0.999978	5.25278e-06	0.999970
rad60syn	2.51127e-06	0.999981	3.44384e-06	0.999973
rad20	2.48496e-06	0.999983	3.40779e-06	0.999977
rad47	2.03077e-06	0.999985	2.78492e-06	0.999980
rad58	2.01001e-06	0.999987	2.75645e-06	0.999982
rad65	1.98693e-06	0.999989	2.72479e-06	0.999985
rad60anti	1.87529e-06	0.999991	2.57168e-06	0.999988
rad15	1.59412e-06	0.999993	2.18611e-06	0.999990
rad36	1.17734e-06	0.999994	1.61455e-06	0.999991
rad25	1.11569e-06	0.999995	1.53000e-06	0.999993
rad8	9.08978e-07	0.999996	1.24653e-06	0.999994
rad12	8.99247e-07	0.999997	1.23319e-06	0.999995
rad43	6.71733e-07	0.999997	9.21184e-07	0.999996
rad24	4.97039e-07	0.999998	6.81621e-07	0.999997
rad61	4.79103e-07	0.999998	6.57020e-07	0.999998
rad26	4.11489e-07	0.999999	5.64297e-07	0.999998
rad18	3.19625e-07	0.999999	4.38321e-07	0.999999
rad10	2.19849e-07	0.999999	3.01491e-07	0.999999
rad14	1.76527e-07	1.000000	2.42082e-07	0.999999
rad41	1.70338e-07	1.000000	2.33595e-07	1.000000
rad3	8.71071e-08	1.000000	1.19455e-07	1.000000
rad4	5.66826e-08	1.000000	7.77321e-08	1.000000
rad2	3.57386e-08	1.000000	4.90105e-08	1.000000

rad5	3.02173e-08	1.000000	4.14387e-08	1.000000
rad1	8.33555e-09	1.000000	1.14310e-08	1.000000
rad27	5.29419e-09	1.000000	7.26021e-09	1.000000

1000000.00 Pa, 20.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.56740e-51	(1.00)	1.56740e-51	(1.00)
Formation of rad11	1.56740e-51	(1.000)	1.56740e-51	(1.000)
Formation of rad6	3.73945e-60	(2.39e-09)	3.73945e-60	(2.39e-09)
H-abstraction	1.53631e-76	(9.80e-26)	1.53631e-76	(9.80e-26)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.999976	0.999976	0.999976	0.999976
rad6	2.31802e-05	0.999999	2.31802e-05	0.999999
rad21	1.19165e-06	1.00000	1.19165e-06	1.00000
rad20	6.87635e-09	1.00000	6.87635e-09	1.00000
rad22	2.65243e-09	1.00000	2.65243e-09	1.00000
rad25	4.93590e-10	1.00000	4.93590e-10	1.00000
rad24	2.26712e-10	1.00000	2.26712e-10	1.00000
rad45	7.88637e-11	1.00000	7.88637e-11	1.00000
PhCHCCH2+H	2.83508e-11	1.00000	2.83508e-11	1.00000
rad36	9.09331e-12	1.00000	9.09331e-12	1.00000
rad18	3.50592e-12	1.00000	3.50592e-12	1.00000
rad9	1.46897e-12	1.00000	1.46897e-12	1.00000
rad13	1.06387e-12	1.00000	1.06387e-12	1.00000
rad7	3.14330e-13	1.00000	3.14330e-13	1.00000
Indene+H	3.87314e-14	1.00000	3.87314e-14	1.00000
C2H2+PhCH2	2.94340e-14	1.00000	2.94340e-14	1.00000
Phenyl+Allene	1.80100e-14	1.00000	0.00000	1.00000
rad23	8.08441e-15	1.00000	8.08441e-15	1.00000
rad33	7.94990e-15	1.00000	7.94990e-15	1.00000
rad3	3.77848e-19	1.00000	3.77848e-19	1.00000
rad4	2.54800e-19	1.00000	2.54800e-19	1.00000
PhCH2CCH+H	6.67614e-20	1.00000	6.67614e-20	1.00000
rad28	1.27588e-20	1.00000	1.27588e-20	1.00000
rad30	3.32339e-22	1.00000	3.32339e-22	1.00000
rad8	1.79684e-22	1.00000	1.79684e-22	1.00000
rad15	4.84117e-23	1.00000	4.84117e-23	1.00000
rad38	3.13183e-24	1.00000	3.13183e-24	1.00000
rad2	6.84875e-25	1.00000	6.84875e-25	1.00000
rad1	1.02549e-25	1.00000	1.02549e-25	1.00000
Benzene+2-propynyl	9.80165e-26	1.00000	9.80165e-26	1.00000
PAH7+H	4.23515e-26	1.00000	4.23515e-26	1.00000
rad46	1.47739e-26	1.00000	1.47739e-26	1.00000
rad31	7.39826e-27	1.00000	7.39826e-27	1.00000
PhCCH+CH3	2.84702e-27	1.00000	2.84702e-27	1.00000
rad60syn	5.62319e-28	1.00000	5.62319e-28	1.00000
PAH9+H	3.21391e-28	1.00000	3.21391e-28	1.00000
rad14	2.75120e-28	1.00000	2.75120e-28	1.00000
rad35	1.87000e-28	1.00000	1.87000e-28	1.00000
rad60anti	5.87233e-29	1.00000	5.87233e-29	1.00000
rad26	3.25594e-31	1.00000	3.25594e-31	1.00000
rad10	8.88748e-32	1.00000	8.88748e-32	1.00000
Ph+MeAc	7.21543e-32	1.00000	7.21543e-32	1.00000
rad39	1.94031e-34	1.00000	1.94031e-34	1.00000
PAH3+H	1.13007e-34	1.00000	1.13007e-34	1.00000
rad27	9.50911e-35	1.00000	9.50911e-35	1.00000
rad59	5.29008e-35	1.00000	5.29008e-35	1.00000
PhCCCH3+H	2.38558e-35	1.00000	2.38558e-35	1.00000
rad50	1.13251e-36	1.00000	1.13251e-36	1.00000
rad12	1.12415e-41	1.00000	1.12415e-41	1.00000
rad19syn	3.77722e-43	1.00000	3.77722e-43	1.00000
rad37	2.61155e-43	1.00000	2.61155e-43	1.00000
rad54	2.56550e-44	1.00000	2.56550e-44	1.00000
rad52	2.07530e-44	1.00000	2.07530e-44	1.00000
rad70	4.28524e-45	1.00000	4.28524e-45	1.00000
rad5	1.59169e-45	1.00000	1.59169e-45	1.00000
rad51	8.47811e-49	1.00000	8.47811e-49	1.00000
rad34	1.83490e-50	1.00000	1.83490e-50	1.00000
rad55	1.03291e-50	1.00000	1.03291e-50	1.00000
rad58	1.03916e-51	1.00000	1.03916e-51	1.00000
PhcycC3H3_A+H	2.66567e-52	1.00000	2.66567e-52	1.00000
PAH10+CH3	1.01580e-53	1.00000	1.01580e-53	1.00000
rad62	2.26370e-54	1.00000	2.26370e-54	1.00000
rad47	1.54170e-55	1.00000	1.54170e-55	1.00000
rad65	5.78321e-56	1.00000	5.78321e-56	1.00000
rad43	2.71235e-58	1.00000	2.71235e-58	1.00000

PAH1+H	7.28000e-60	1.00000	7.28000e-60	1.00000
rad42	1.07312e-64	1.00000	1.07312e-64	1.00000
rad41	8.50066e-70	1.00000	8.50066e-70	1.00000

1000000.00 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.03204e-39 (1.00)	5.03204e-39 (1.00)
Formation of rad11	5.03203e-39 (1.000)	5.03203e-39 (1.000)
Formation of rad6	9.92181e-45 (1.97e-06)	9.92181e-45 (1.97e-06)
H-abstraction	3.33191e-55 (6.62e-17)	3.33191e-55 (6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.999949	0.999949	0.999949	0.999949
rad6	4.88504e-05	0.999998	4.88504e-05	0.999998
rad21	2.39497e-06	1.00000	2.39497e-06	1.00000
rad20	2.78594e-08	1.00000	2.78594e-08	1.00000
rad22	1.07848e-08	1.00000	1.07848e-08	1.00000
rad25	1.00781e-09	1.00000	1.00781e-09	1.00000
rad24	6.79937e-10	1.00000	6.79937e-10	1.00000
rad45	5.47778e-10	1.00000	5.47778e-10	1.00000
PhCHCCH2+H	5.86069e-11	1.00000	5.86069e-11	1.00000
rad36	5.43570e-11	1.00000	5.43570e-11	1.00000
rad18	2.87156e-11	1.00000	2.87156e-11	1.00000
rad13	4.86443e-12	1.00000	4.86443e-12	1.00000
rad9	3.05367e-12	1.00000	3.05367e-12	1.00000
rad7	1.45217e-12	1.00000	1.45217e-12	1.00000
Indene+H	3.27595e-13	1.00000	3.27595e-13	1.00000
C2H2+PhCH2	2.43723e-13	1.00000	2.43723e-13	1.00000
rad23	8.05850e-14	1.00000	8.05850e-14	1.00000
Phenyl+Allene	4.28126e-14	1.00000	0.00000	1.00000
rad33	3.69841e-14	1.00000	3.69841e-14	1.00000
Benzene+2-propynyl	6.62139e-17	1.00000	6.62139e-17	1.00000
rad3	4.02128e-18	1.00000	4.02128e-18	1.00000
rad4	2.58066e-18	1.00000	2.58066e-18	1.00000
PhCH2CCH+H	1.61741e-19	1.00000	1.61741e-19	1.00000
rad28	1.42892e-19	1.00000	1.42892e-19	1.00000
rad30	5.58927e-21	1.00000	5.58927e-21	1.00000
rad8	1.56899e-21	1.00000	1.56899e-21	1.00000
rad15	8.17024e-22	1.00000	8.17024e-22	1.00000
rad38	5.25927e-23	1.00000	5.25927e-23	1.00000
rad2	1.64908e-23	1.00000	1.64908e-23	1.00000
rad1	2.09751e-24	1.00000	2.09751e-24	1.00000
rad46	2.25475e-25	1.00000	2.25475e-25	1.00000
PAH7+H	2.13362e-25	1.00000	2.13362e-25	1.00000
PhCCH+CH3	9.08311e-26	1.00000	9.08311e-26	1.00000
rad31	3.17376e-26	1.00000	3.17376e-26	1.00000
rad60syn	1.00796e-26	1.00000	1.00796e-26	1.00000
rad14	7.39396e-27	1.00000	7.39396e-27	1.00000
PAH9+H	6.03784e-27	1.00000	6.03784e-27	1.00000
rad35	3.51360e-27	1.00000	3.51360e-27	1.00000
rad60anti	1.08368e-27	1.00000	1.08368e-27	1.00000
Ph+MeAc	5.71410e-30	1.00000	5.71410e-30	1.00000
rad10	5.26367e-30	1.00000	5.26367e-30	1.00000
rad26	2.75399e-30	1.00000	2.75399e-30	1.00000
rad39	1.03214e-32	1.00000	1.03214e-32	1.00000
rad27	6.44285e-33	1.00000	6.44285e-33	1.00000
PAH3+H	2.23746e-33	1.00000	2.23746e-33	1.00000
PhCCCH3+H	2.12884e-33	1.00000	2.12884e-33	1.00000
rad59	1.04608e-33	1.00000	1.04608e-33	1.00000
rad50	1.91785e-35	1.00000	1.91785e-35	1.00000
rad12	1.90737e-40	1.00000	1.90737e-40	1.00000
rad19syn	6.55479e-42	1.00000	6.55479e-42	1.00000
rad37	4.42758e-42	1.00000	4.42758e-42	1.00000
rad54	3.81951e-43	1.00000	3.81951e-43	1.00000
rad52	3.81512e-43	1.00000	3.81512e-43	1.00000
rad5	2.75180e-43	1.00000	2.75180e-43	1.00000
rad70	2.35884e-44	1.00000	2.35884e-44	1.00000
rad51	1.53504e-47	1.00000	1.53504e-47	1.00000
rad55	1.32870e-49	1.00000	1.32870e-49	1.00000
rad34	1.03923e-49	1.00000	1.03923e-49	1.00000
rad58	2.24728e-50	1.00000	2.24728e-50	1.00000
PhcycC3H3_A+H	3.62558e-51	1.00000	3.62558e-51	1.00000
PAH10+CH3	1.66930e-52	1.00000	1.66930e-52	1.00000
rad62	1.44192e-52	1.00000	1.44192e-52	1.00000
rad47	2.55757e-54	1.00000	2.55757e-54	1.00000
rad65	1.44203e-54	1.00000	1.44203e-54	1.00000
rad43	3.98928e-56	1.00000	3.98928e-56	1.00000

PAH1+H	1.67275e-58	1.00000	1.67275e-58	1.00000
rad42	5.55763e-63	1.00000	5.55763e-63	1.00000
rad41	9.32165e-68	1.00000	9.32165e-68	1.00000

1000000.00 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.35697e-33 (1.00)	9.35697e-33 (1.00)
Formation of rad11	9.35644e-33 (1.000)	9.35644e-33 (1.000)
Formation of rad6	5.26139e-37 (5.62e-05)	5.26139e-37 (5.62e-05)
H-abstraction	1.44763e-44 (1.55e-12)	1.44763e-44 (1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.999870	0.999870	0.999870	0.999870
rad6	0.000126412	0.999996	0.000126412	0.999996
rad21	3.57121e-06	1.000000	3.57121e-06	1.000000
rad20	6.18000e-08	1.000000	6.18000e-08	1.000000
rad22	2.40072e-08	1.000000	2.40072e-08	1.000000
rad45	1.56428e-09	1.000000	1.56428e-09	1.000000
rad25	1.53845e-09	1.000000	1.53845e-09	1.000000
rad24	1.15707e-09	1.000000	1.15707e-09	1.000000
rad36	1.43718e-10	1.000000	1.43718e-10	1.000000
rad18	9.51119e-11	1.000000	9.51119e-11	1.000000
PhCHCCH2+H	9.17728e-11	1.000000	9.17728e-11	1.000000
rad13	2.98588e-11	1.000000	2.98588e-11	1.000000
rad7	9.26367e-12	1.000000	9.26367e-12	1.000000
rad9	4.83688e-12	1.000000	4.83688e-12	1.000000
Benzene+2-propynyl	1.54712e-12	1.000000	1.54712e-12	1.000000
Indene+H	1.11979e-12	1.000000	1.11979e-12	1.000000
C2H2+PhCH2	8.24144e-13	1.000000	8.24144e-13	1.000000
rad23	3.03083e-13	1.000000	3.03083e-13	1.000000
rad33	2.50803e-13	1.000000	2.50803e-13	1.000000
Phenyl+Allene	8.71679e-14	1.000000	0.000000	1.000000
rad3	6.05047e-17	1.000000	6.05047e-17	1.000000
rad4	3.78341e-17	1.000000	3.78341e-17	1.000000
rad28	2.58468e-18	1.000000	2.58468e-18	1.000000
PhCH2CCH+H	3.53852e-19	1.000000	3.53852e-19	1.000000
rad30	2.85350e-20	1.000000	2.85350e-20	1.000000
rad8	6.11690e-21	1.000000	6.11690e-21	1.000000
rad15	4.20077e-21	1.000000	4.20077e-21	1.000000
rad2	5.33356e-22	1.000000	5.33356e-22	1.000000
rad38	2.55953e-22	1.000000	2.55953e-22	1.000000
rad1	6.23722e-23	1.000000	6.23722e-23	1.000000
PhCCH+CH3	4.37062e-24	1.000000	4.37062e-24	1.000000
rad46	1.08849e-24	1.000000	1.08849e-24	1.000000
PAH7+H	7.19479e-25	1.000000	7.19479e-25	1.000000
rad31	3.03833e-25	1.000000	3.03833e-25	1.000000
rad14	3.00151e-25	1.000000	3.00151e-25	1.000000
rad60syn	5.86020e-26	1.000000	5.86020e-26	1.000000
PAH9+H	3.36549e-26	1.000000	3.36549e-26	1.000000
rad35	1.95385e-26	1.000000	1.95385e-26	1.000000
rad60anti	6.69998e-27	1.000000	6.69998e-27	1.000000
Ph+MeAc	4.97591e-28	1.000000	4.97591e-28	1.000000
rad10	3.38790e-28	1.000000	3.38790e-28	1.000000
rad26	1.18634e-29	1.000000	1.18634e-29	1.000000
rad39	7.48741e-31	1.000000	7.48741e-31	1.000000
rad27	4.83048e-31	1.000000	4.83048e-31	1.000000
PhCCCH3+H	1.97289e-31	1.000000	1.97289e-31	1.000000
PAH3+H	1.62416e-32	1.000000	1.62416e-32	1.000000
rad59	7.57068e-33	1.000000	7.57068e-33	1.000000
rad50	1.24929e-34	1.000000	1.24929e-34	1.000000
rad12	1.21723e-39	1.000000	1.21723e-39	1.000000
rad19syn	2.93772e-40	1.000000	2.93772e-40	1.000000
rad5	4.52106e-41	1.000000	4.52106e-41	1.000000
rad37	2.83688e-41	1.000000	2.83688e-41	1.000000
rad54	1.38059e-41	1.000000	1.38059e-41	1.000000
rad52	2.80039e-42	1.000000	2.80039e-42	1.000000
rad70	9.90475e-44	1.000000	9.90475e-44	1.000000
rad51	1.18474e-46	1.000000	1.18474e-46	1.000000
rad55	3.30518e-48	1.000000	3.30518e-48	1.000000
rad34	4.64727e-49	1.000000	4.64727e-49	1.000000
rad58	2.04962e-49	1.000000	2.04962e-49	1.000000
PhcycC3H3_A+H	9.67840e-50	1.000000	9.67840e-50	1.000000
rad62	1.37245e-50	1.000000	1.37245e-50	1.000000
PAH10+CH3	1.17121e-51	1.000000	1.17121e-51	1.000000
rad47	2.07719e-53	1.000000	2.07719e-53	1.000000
rad65	1.40354e-53	1.000000	1.40354e-53	1.000000
rad43	6.60314e-54	1.000000	6.60314e-54	1.000000

PAH1+H	5.03572e-57	1.00000	5.03572e-57	1.00000
rad42	3.09657e-61	1.00000	3.09657e-61	1.00000
rad41	8.53690e-66	1.00000	8.53690e-66	1.00000

1000000.00 Pa, 50.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.52690e-29 (1.00)	5.52690e-29 (1.00)
Formation of rad11	5.52459e-29 (1.000)	5.52459e-29 (1.000)
Formation of rad6	2.30840e-32 (0.000418)	2.30840e-32 (0.000418)
H-abstraction	3.35357e-38 (6.07e-10)	3.35357e-38 (6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.999484	0.999484	0.999484	0.999484
rad6	0.000511272	0.999995	0.000511272	0.999995
rad21	4.75192e-06	1.00000	4.75192e-06	1.00000
rad20	1.08779e-07	1.00000	1.08779e-07	1.00000
rad22	4.24021e-08	1.00000	4.24021e-08	1.00000
rad45	3.20236e-09	1.00000	3.20236e-09	1.00000
rad25	2.10769e-09	1.00000	2.10769e-09	1.00000
rad24	1.60489e-09	1.00000	1.60489e-09	1.00000
Benzene+2-propynyl	6.06773e-10	1.00000	6.06773e-10	1.00000
rad36	2.79967e-10	1.00000	2.79967e-10	1.00000
rad18	2.22426e-10	1.00000	2.22426e-10	1.00000
rad13	2.15471e-10	1.00000	2.15471e-10	1.00000
PhCHCCH2+H	1.30214e-10	1.00000	1.30214e-10	1.00000
rad7	6.82717e-11	1.00000	6.82717e-11	1.00000
rad9	6.97126e-12	1.00000	6.97126e-12	1.00000
Indene+H	2.70196e-12	1.00000	2.70196e-12	1.00000
C2H2+PhCH2	1.98233e-12	1.00000	1.98233e-12	1.00000
rad33	1.88220e-12	1.00000	1.88220e-12	1.00000
rad23	7.76350e-13	1.00000	7.76350e-13	1.00000
Phenyl+Allene	1.69692e-13	1.00000	0.00000	1.00000
rad3	6.92715e-16	1.00000	6.92715e-16	1.00000
rad4	4.25847e-16	1.00000	4.25847e-16	1.00000
rad28	3.10334e-17	1.00000	3.10334e-17	1.00000
PhCH2CCH+H	8.14068e-19	1.00000	8.14068e-19	1.00000
rad30	9.26725e-20	1.00000	9.26725e-20	1.00000
rad8	1.78915e-20	1.00000	1.78915e-20	1.00000
rad15	1.37771e-20	1.00000	1.37771e-20	1.00000
rad2	8.81818e-21	1.00000	8.81818e-21	1.00000
rad1	9.76697e-22	1.00000	9.76697e-22	1.00000
rad38	7.87277e-22	1.00000	7.87277e-22	1.00000
PhCCH+CH3	7.95979e-23	1.00000	7.95979e-23	1.00000
rad14	5.22165e-24	1.00000	5.22165e-24	1.00000
rad46	3.41687e-24	1.00000	3.41687e-24	1.00000
rad31	2.61375e-24	1.00000	2.61375e-24	1.00000
PAH7+H	2.41976e-24	1.00000	2.41976e-24	1.00000
rad60syn	2.26848e-25	1.00000	2.26848e-25	1.00000
PAH9+H	1.17661e-25	1.00000	1.17661e-25	1.00000
rad35	6.80271e-26	1.00000	6.80271e-26	1.00000
rad60anti	2.82515e-26	1.00000	2.82515e-26	1.00000
Ph+MeAc	1.08964e-26	1.00000	1.08964e-26	1.00000
rad10	7.89594e-27	1.00000	7.89594e-27	1.00000
rad26	4.34435e-29	1.00000	4.34435e-29	1.00000
rad39	1.52289e-29	1.00000	1.52289e-29	1.00000
rad27	1.17214e-29	1.00000	1.17214e-29	1.00000
PhCCCH3+H	5.11306e-30	1.00000	5.11306e-30	1.00000
PAH3+H	8.74809e-32	1.00000	8.74809e-32	1.00000
rad59	4.05926e-32	1.00000	4.05926e-32	1.00000
rad50	6.21414e-34	1.00000	6.21414e-34	1.00000
rad19syn	7.48589e-39	1.00000	7.48589e-39	1.00000
rad12	5.87738e-39	1.00000	5.87738e-39	1.00000
rad5	1.88327e-39	1.00000	1.88327e-39	1.00000
rad54	3.53481e-40	1.00000	3.53481e-40	1.00000
rad37	1.38060e-40	1.00000	1.38060e-40	1.00000
rad52	1.67186e-41	1.00000	1.67186e-41	1.00000
rad70	4.32104e-43	1.00000	4.32104e-43	1.00000
rad51	7.80851e-46	1.00000	7.80851e-46	1.00000
rad55	8.37614e-47	1.00000	8.37614e-47	1.00000
PhcycC3H3_A+H	2.54489e-48	1.00000	2.54489e-48	1.00000
rad34	2.21785e-48	1.00000	2.21785e-48	1.00000
rad58	1.55414e-48	1.00000	1.55414e-48	1.00000
rad62	6.94849e-49	1.00000	6.94849e-49	1.00000
PAH10+CH3	6.83200e-51	1.00000	6.83200e-51	1.00000
rad43	4.52909e-52	1.00000	4.52909e-52	1.00000
rad47	1.56298e-52	1.00000	1.56298e-52	1.00000
rad65	1.10074e-52	1.00000	1.10074e-52	1.00000

PAH1+H	1.68413e-55	1.00000	1.68413e-55	1.00000
rad42	1.67100e-59	1.00000	1.67100e-59	1.00000
rad41	6.60796e-64	1.00000	6.60796e-64	1.00000

1000000.00 Pa, 60.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.83429e-26	(1.00)	1.83429e-26	(1.00)
Formation of rad11	1.83139e-26	(0.998)	1.83139e-26	(0.998)
Formation of rad6	2.90471e-29	(0.00158)	2.90471e-29	(0.00158)
H-abstraction	5.71259e-34	(3.11e-08)	5.71259e-34	(3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.998293	0.998293	0.998293	0.998293
rad6	0.00170095	0.999994	0.00170095	0.999994
rad21	5.95153e-06	1.000000	5.95153e-06	1.000000
rad20	1.69365e-07	1.000000	1.69365e-07	1.000000
rad22	6.62460e-08	1.000000	6.62460e-08	1.000000
Benzene+2-propynyl	3.11432e-08	1.000000	3.11432e-08	1.000000
rad45	5.52103e-09	1.000000	5.52103e-09	1.000000
rad25	2.72819e-09	1.000000	2.72819e-09	1.000000
rad24	2.01079e-09	1.000000	2.01079e-09	1.000000
rad13	9.70426e-10	1.000000	9.70426e-10	1.000000
rad36	4.65795e-10	1.000000	4.65795e-10	1.000000
rad18	4.32635e-10	1.000000	4.32635e-10	1.000000
rad7	3.10715e-10	1.000000	3.10715e-10	1.000000
PhCHCCH2+H	1.75659e-10	1.000000	1.75659e-10	1.000000
rad9	9.57738e-12	1.000000	9.57738e-12	1.000000
rad33	8.54548e-12	1.000000	8.54548e-12	1.000000
Indene+H	5.42247e-12	1.000000	5.42247e-12	1.000000
C2H2+PhCH2	3.98653e-12	1.000000	3.98653e-12	1.000000
rad23	1.61913e-12	1.000000	1.61913e-12	1.000000
Phenyl+Allene	3.16372e-13	1.000000	0.000000	1.000000
rad3	4.13214e-15	1.000000	4.13214e-15	1.000000
rad4	2.50896e-15	1.000000	2.50896e-15	1.000000
rad28	1.89104e-16	1.000000	1.89104e-16	1.000000
PhCH2CCH+H	2.05216e-18	1.000000	2.05216e-18	1.000000
rad30	2.37523e-19	1.000000	2.37523e-19	1.000000
rad2	6.80671e-20	1.000000	6.80671e-20	1.000000
rad8	4.51108e-20	1.000000	4.51108e-20	1.000000
rad15	3.57289e-20	1.000000	3.57289e-20	1.000000
rad1	7.25062e-21	1.000000	7.25062e-21	1.000000
rad38	1.91140e-21	1.000000	1.91140e-21	1.000000
PhCCH+CH3	6.59143e-22	1.000000	6.59143e-22	1.000000
rad14	4.17611e-23	1.000000	4.17611e-23	1.000000
rad31	1.27855e-23	1.000000	1.27855e-23	1.000000
PAH7+H	9.43937e-24	1.000000	9.43937e-24	1.000000
rad46	8.58686e-24	1.000000	8.58686e-24	1.000000
rad60syn	7.12226e-25	1.000000	7.12226e-25	1.000000
PAH9+H	3.21683e-25	1.000000	3.21683e-25	1.000000
rad35	1.84991e-25	1.000000	1.84991e-25	1.000000
Ph+MeAc	1.07309e-25	1.000000	1.07309e-25	1.000000
rad60anti	9.79443e-26	1.000000	9.79443e-26	1.000000
rad10	7.89834e-26	1.000000	7.89834e-26	1.000000
rad26	1.54897e-28	1.000000	1.54897e-28	1.000000
rad39	1.39880e-28	1.000000	1.39880e-28	1.000000
rad27	1.21368e-28	1.000000	1.21368e-28	1.000000
PhCCCH3+H	5.61115e-29	1.000000	5.61115e-29	1.000000
PAH3+H	4.24146e-31	1.000000	4.24146e-31	1.000000
rad59	1.95625e-31	1.000000	1.95625e-31	1.000000
rad50	2.83670e-33	1.000000	2.83670e-33	1.000000
rad19syn	1.12895e-37	1.000000	1.12895e-37	1.000000
rad5	3.67169e-38	1.000000	3.67169e-38	1.000000
rad12	2.60104e-38	1.000000	2.60104e-38	1.000000
rad54	5.59425e-39	1.000000	5.59425e-39	1.000000
rad37	6.17940e-40	1.000000	6.17940e-40	1.000000
rad52	9.73671e-41	1.000000	9.73671e-41	1.000000
rad70	2.08657e-42	1.000000	2.08657e-42	1.000000
rad51	5.22138e-45	1.000000	5.22138e-45	1.000000
rad55	1.43185e-45	1.000000	1.43185e-45	1.000000
PhcycC3H3_A+H	4.43946e-47	1.000000	4.43946e-47	1.000000
rad62	1.94925e-47	1.000000	1.94925e-47	1.000000
rad34	1.19349e-47	1.000000	1.19349e-47	1.000000
rad58	1.16093e-47	1.000000	1.16093e-47	1.000000
PAH10+CH3	3.92304e-50	1.000000	3.92304e-50	1.000000
rad43	1.58683e-50	1.000000	1.58683e-50	1.000000
rad47	1.26832e-51	1.000000	1.26832e-51	1.000000
rad65	8.44702e-52	1.000000	8.44702e-52	1.000000

PAH1+H	3.77136e-54	1.00000	3.77136e-54	1.00000
rad42	5.92064e-58	1.00000	5.92064e-58	1.00000
rad41	3.16885e-62	1.00000	3.16885e-62	1.00000

1000000.00 Pa, 70.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.17336e-24	(1.00)	1.17336e-24	(1.00)
Formation of rad11	1.16857e-24	(0.996)	1.16857e-24	(0.996)
Formation of rad6	4.79505e-27	(0.00409)	4.79505e-27	(0.00409)
H-abstraction	5.89821e-31	(5.03e-07)	5.89821e-31	(5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.995763	0.995763	0.995763	0.995763
rad6	0.00422821	0.999992	0.00422821	0.999992
rad21	7.17592e-06	0.999999	7.17592e-06	0.999999
Benzene+2-propynyl	5.02676e-07	0.999999	5.02676e-07	0.999999
rad20	2.44346e-07	1.000000	2.44346e-07	1.000000
rad22	9.59069e-08	1.000000	9.59069e-08	1.000000
rad45	8.58035e-09	1.000000	8.58035e-09	1.000000
rad25	3.40901e-09	1.000000	3.40901e-09	1.000000
rad13	2.98937e-09	1.000000	2.98937e-09	1.000000
rad24	2.37441e-09	1.000000	2.37441e-09	1.000000
rad7	9.65541e-10	1.000000	9.65541e-10	1.000000
rad18	7.50935e-10	1.000000	7.50935e-10	1.000000
rad36	7.04482e-10	1.000000	7.04482e-10	1.000000
PhCHCCH2+H	2.29801e-10	1.000000	2.29801e-10	1.000000
rad33	2.64001e-11	1.000000	2.64001e-11	1.000000
rad9	1.27815e-11	1.000000	1.27815e-11	1.000000
Indene+H	9.71272e-12	1.000000	9.71272e-12	1.000000
C2H2+PhCH2	7.18391e-12	1.000000	7.18391e-12	1.000000
rad23	2.97255e-12	1.000000	2.97255e-12	1.000000
Phenyl+Allene	5.66853e-13	1.000000	0.00000	1.000000
rad3	1.59364e-14	1.000000	1.59364e-14	1.000000
rad4	9.58412e-15	1.000000	9.58412e-15	1.000000
rad28	7.44261e-16	1.000000	7.44261e-16	1.000000
PhCH2CCH+H	5.99074e-18	1.000000	5.99074e-18	1.000000
rad30	5.27186e-19	1.000000	5.27186e-19	1.000000
rad2	3.26537e-19	1.000000	3.26537e-19	1.000000
rad8	1.04142e-19	1.000000	1.04142e-19	1.000000
rad15	8.03704e-20	1.000000	8.03704e-20	1.000000
rad1	3.37631e-20	1.000000	3.37631e-20	1.000000
rad38	4.02551e-21	1.000000	4.02551e-21	1.000000
PhCCH+CH3	3.40650e-21	1.000000	3.40650e-21	1.000000
rad14	2.08302e-22	1.000000	2.08302e-22	1.000000
rad31	4.26214e-23	1.000000	4.26214e-23	1.000000
PAH7+H	4.20982e-23	1.000000	4.20982e-23	1.000000
rad46	1.88921e-23	1.000000	1.88921e-23	1.000000
rad60syn	1.97387e-24	1.000000	1.97387e-24	1.000000
PAH9+H	7.57164e-25	1.000000	7.57164e-25	1.000000
Ph+MeAc	6.66791e-25	1.000000	6.66791e-25	1.000000
rad10	4.74017e-25	1.000000	4.74017e-25	1.000000
rad35	4.32666e-25	1.000000	4.32666e-25	1.000000
rad60anti	3.01310e-25	1.000000	3.01310e-25	1.000000
rad39	8.10814e-28	1.000000	8.10814e-28	1.000000
rad27	7.56704e-28	1.000000	7.56704e-28	1.000000
rad26	5.81210e-28	1.000000	5.81210e-28	1.000000
PhCCCH3+H	3.72148e-28	1.000000	3.72148e-28	1.000000
PAH3+H	2.04699e-30	1.000000	2.04699e-30	1.000000
rad59	9.36601e-31	1.000000	9.36601e-31	1.000000
rad50	1.30239e-32	1.000000	1.30239e-32	1.000000
rad19syn	1.36654e-36	1.000000	1.36654e-36	1.000000
rad5	4.76780e-37	1.000000	4.76780e-37	1.000000
rad12	1.17013e-37	1.000000	1.17013e-37	1.000000
rad54	7.25033e-38	1.000000	7.25033e-38	1.000000
rad37	2.82357e-39	1.000000	2.82357e-39	1.000000
rad52	6.10937e-40	1.000000	6.10937e-40	1.000000
rad70	1.18038e-41	1.000000	1.18038e-41	1.000000
rad51	3.90679e-44	1.000000	3.90679e-44	1.000000
rad55	2.06161e-44	1.000000	2.06161e-44	1.000000
PhcycC3H3_A+H	6.45904e-46	1.000000	6.45904e-46	1.000000
rad62	4.21667e-46	1.000000	4.21667e-46	1.000000
rad58	9.42708e-47	1.000000	9.42708e-47	1.000000
rad34	7.62122e-47	1.000000	7.62122e-47	1.000000
rad43	4.07770e-49	1.000000	4.07770e-49	1.000000
PAH10+CH3	2.45041e-49	1.000000	2.45041e-49	1.000000
rad47	1.21845e-50	1.000000	1.21845e-50	1.000000
rad65	7.10902e-51	1.000000	7.10902e-51	1.000000

PAH1+H	6.90782e-53	1.000000	6.90782e-53	1.000000
rad42	1.76321e-56	1.000000	1.76321e-56	1.000000
rad41	1.24160e-60	1.000000	1.24160e-60	1.000000

1000000.00 Pa, 80.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.68112e-23	(1.00)	2.68112e-23	(1.00)
Formation of rad11	2.65890e-23	(0.992)	2.65890e-23	(0.992)
Formation of rad6	2.22189e-25	(0.00829)	2.22189e-25	(0.00829)
H-abstraction	1.05871e-28	(3.95e-06)	1.05871e-28	(3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.991534	0.991534	0.991534	0.991534
rad6	0.00845350	0.999988	0.00845350	0.999988
rad21	8.42874e-06	0.999996	8.42874e-06	0.999996
Benzene+2-propynyl	3.94877e-06	1.000000	3.94877e-06	1.000000
rad20	3.34757e-07	1.000000	3.34757e-07	1.000000
rad22	1.31859e-07	1.000000	1.31859e-07	1.000000
rad45	1.24519e-08	1.000000	1.24519e-08	1.000000
rad13	7.13281e-09	1.000000	7.13281e-09	1.000000
rad25	4.15979e-09	1.000000	4.15979e-09	1.000000
rad24	2.69992e-09	1.000000	2.69992e-09	1.000000
rad7	2.32376e-09	1.000000	2.32376e-09	1.000000
rad18	1.20719e-09	1.000000	1.20719e-09	1.000000
rad36	1.00046e-09	1.000000	1.00046e-09	1.000000
PhCHCCH2+H	2.94760e-10	1.000000	2.94760e-10	1.000000
rad33	6.31176e-11	1.000000	6.31176e-11	1.000000
rad9	1.67455e-11	1.000000	1.67455e-11	1.000000
Indene+H	1.61205e-11	1.000000	1.61205e-11	1.000000
C2H2+PhCH2	1.20374e-11	1.000000	1.20374e-11	1.000000
rad23	5.00848e-12	1.000000	5.00848e-12	1.000000
Phenyl+Allene	9.83719e-13	1.000000	0.000000	1.000000
rad3	4.62949e-14	1.000000	4.62949e-14	1.000000
rad4	2.76286e-14	1.000000	2.76286e-14	1.000000
rad28	2.21041e-15	1.000000	2.21041e-15	1.000000
PhCH2CCH+H	2.11792e-17	1.000000	2.11792e-17	1.000000
rad2	1.15466e-18	1.000000	1.15466e-18	1.000000
rad30	1.06508e-18	1.000000	1.06508e-18	1.000000
rad8	2.28145e-19	1.000000	2.28145e-19	1.000000
rad15	1.64831e-19	1.000000	1.64831e-19	1.000000
rad1	1.16604e-19	1.000000	1.16604e-19	1.000000
PhCCH+CH3	1.30676e-20	1.000000	1.30676e-20	1.000000
rad38	7.73194e-21	1.000000	7.73194e-21	1.000000
rad14	7.69572e-22	1.000000	7.69572e-22	1.000000
PAH7+H	1.91056e-22	1.000000	1.91056e-22	1.000000
rad31	1.10824e-22	1.000000	1.10824e-22	1.000000
rad46	3.81929e-23	1.000000	3.81929e-23	1.000000
rad60syn	5.06322e-24	1.000000	5.06322e-24	1.000000
Ph+MeAc	3.10512e-24	1.000000	3.10512e-24	1.000000
rad10	2.05554e-24	1.000000	2.05554e-24	1.000000
PAH9+H	1.61677e-24	1.000000	1.61677e-24	1.000000
rad35	9.17213e-25	1.000000	9.17213e-25	1.000000
rad60anti	8.57567e-25	1.000000	8.57567e-25	1.000000
rad39	3.52719e-27	1.000000	3.52719e-27	1.000000
rad27	3.42397e-27	1.000000	3.42397e-27	1.000000
rad26	2.43875e-27	1.000000	2.43875e-27	1.000000
PhCCCH3+H	1.80044e-27	1.000000	1.80044e-27	1.000000
PAH3+H	1.05842e-29	1.000000	1.05842e-29	1.000000
rad59	4.78809e-30	1.000000	4.78809e-30	1.000000
rad50	6.38634e-32	1.000000	6.38634e-32	1.000000
rad19syn	1.66901e-35	1.000000	1.66901e-35	1.000000
rad5	4.88563e-36	1.000000	4.88563e-36	1.000000
rad54	9.67893e-37	1.000000	9.67893e-37	1.000000
rad12	5.79026e-37	1.000000	5.79026e-37	1.000000
rad37	1.43057e-38	1.000000	1.43057e-38	1.000000
rad52	4.51666e-39	1.000000	4.51666e-39	1.000000
rad70	8.61158e-41	1.000000	8.61158e-41	1.000000
rad51	3.60654e-43	1.000000	3.60654e-43	1.000000
rad55	3.13467e-43	1.000000	3.13467e-43	1.000000
PhcycC3H3_A+H	9.84474e-45	1.000000	9.84474e-45	1.000000
rad62	8.85871e-45	1.000000	8.85871e-45	1.000000
rad58	9.27659e-46	1.000000	9.27659e-46	1.000000
rad34	6.33700e-46	1.000000	6.33700e-46	1.000000
rad43	9.68802e-48	1.000000	9.68802e-48	1.000000
PAH10+CH3	1.85958e-48	1.000000	1.85958e-48	1.000000
rad47	1.53950e-49	1.000000	1.53950e-49	1.000000
rad65	7.36155e-50	1.000000	7.36155e-50	1.000000

PAH1+H	1.30129e-51	1.00000	1.30129e-51	1.00000
rad42	5.60568e-55	1.00000	5.60568e-55	1.00000
rad41	5.06758e-59	1.00000	5.06758e-59	1.00000

1000000.00 Pa, 90.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.08379e-22	(1.00)	3.08379e-22	(1.00)
Formation of rad11	3.03962e-22	(0.986)	3.03962e-22	(0.986)
Formation of rad6	4.41076e-24	(0.0143)	4.41076e-24	(0.0143)
H-abstraction	5.92916e-27	(1.92e-05)	5.92916e-27	(1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.985476	0.985476	0.985476	0.985476
rad6	0.0144947	0.999971	0.0144947	0.999971
Benzene+2-propynyl	1.92269e-05	0.999990	1.92269e-05	0.999990
rad21	9.71455e-06	1.000000	9.71455e-06	1.000000
rad20	4.41996e-07	1.000000	4.41996e-07	1.000000
rad22	1.74735e-07	1.000000	1.74735e-07	1.000000
rad45	1.72285e-08	1.000000	1.72285e-08	1.000000
rad13	1.42841e-08	1.000000	1.42841e-08	1.000000
rad25	4.99293e-09	1.000000	4.99293e-09	1.000000
rad7	4.69494e-09	1.000000	4.69494e-09	1.000000
rad24	2.99331e-09	1.000000	2.99331e-09	1.000000
rad18	1.83814e-09	1.000000	1.83814e-09	1.000000
rad36	1.35991e-09	1.000000	1.35991e-09	1.000000
PhCHCCH2+H	3.73384e-10	1.000000	3.73384e-10	1.000000
rad33	1.26636e-10	1.000000	1.26636e-10	1.000000
Indene+H	2.53628e-11	1.000000	2.53628e-11	1.000000
rad9	2.16898e-11	1.000000	2.16898e-11	1.000000
C2H2+PhCH2	1.91835e-11	1.000000	1.91835e-11	1.000000
rad23	7.94325e-12	1.000000	7.94325e-12	1.000000
Phenyl+Allene	1.66570e-12	1.000000	0.000000	1.000000
rad3	1.10929e-13	1.000000	1.10929e-13	1.000000
rad4	6.57841e-14	1.000000	6.57841e-14	1.000000
rad28	5.42617e-15	1.000000	5.42617e-15	1.000000
PhCH2CCH+H	8.51678e-17	1.000000	8.51678e-17	1.000000
rad2	3.32247e-18	1.000000	3.32247e-18	1.000000
rad30	2.01972e-18	1.000000	2.01972e-18	1.000000
rad8	4.85606e-19	1.000000	4.85606e-19	1.000000
rad1	3.29132e-19	1.000000	3.29132e-19	1.000000
rad15	3.17861e-19	1.000000	3.17861e-19	1.000000
PhCCH+CH3	4.10860e-20	1.000000	4.10860e-20	1.000000
rad38	1.39637e-20	1.000000	1.39637e-20	1.000000
rad14	2.32453e-21	1.000000	2.32453e-21	1.000000
PAH7+H	8.21229e-22	1.000000	8.21229e-22	1.000000
rad31	2.43697e-22	1.000000	2.43697e-22	1.000000
rad46	7.31134e-23	1.000000	7.31134e-23	1.000000
rad60syn	1.23841e-23	1.000000	1.23841e-23	1.000000
Ph+MeAc	1.19409e-23	1.000000	1.19409e-23	1.000000
rad10	7.16775e-24	1.000000	7.16775e-24	1.000000
PAH9+H	3.23591e-24	1.000000	3.23591e-24	1.000000
rad60anti	2.31783e-24	1.000000	2.31783e-24	1.000000
rad35	1.82129e-24	1.000000	1.82129e-24	1.000000
rad39	1.27048e-26	1.000000	1.27048e-26	1.000000
rad27	1.25149e-26	1.000000	1.25149e-26	1.000000
rad26	1.16448e-26	1.000000	1.16448e-26	1.000000
PhCCCH3+H	7.07574e-27	1.000000	7.07574e-27	1.000000
PAH3+H	6.11137e-29	1.000000	6.11137e-29	1.000000
rad59	2.71614e-29	1.000000	2.71614e-29	1.000000
rad50	3.42193e-31	1.000000	3.42193e-31	1.000000
rad19syn	2.54244e-34	1.000000	2.54244e-34	1.000000
rad5	4.27256e-35	1.000000	4.27256e-35	1.000000
rad54	1.68701e-35	1.000000	1.68701e-35	1.000000
rad12	3.27496e-36	1.000000	3.27496e-36	1.000000
rad37	8.43268e-38	1.000000	8.43268e-38	1.000000
rad52	4.28410e-38	1.000000	4.28410e-38	1.000000
rad70	9.60253e-40	1.000000	9.60253e-40	1.000000
rad55	6.54536e-42	1.000000	6.54536e-42	1.000000
rad51	4.58060e-42	1.000000	4.58060e-42	1.000000
rad62	2.17687e-43	1.000000	2.17687e-43	1.000000
PhcycC3H3_A+H	2.04867e-43	1.000000	2.04867e-43	1.000000
rad58	1.28740e-44	1.000000	1.28740e-44	1.000000
rad34	8.13618e-45	1.000000	8.13618e-45	1.000000
rad43	2.51413e-46	1.000000	2.51413e-46	1.000000
PAH10+CH3	1.99698e-47	1.000000	1.99698e-47	1.000000
rad47	2.91129e-48	1.000000	2.91129e-48	1.000000
rad65	1.07325e-48	1.000000	1.07325e-48	1.000000

PAH1+H	3.28125e-50	1.00000	3.28125e-50	1.00000
rad42	2.37922e-53	1.00000	2.37922e-53	1.00000
rad41	2.66274e-57	1.00000	2.66274e-57	1.00000

1000000.00 Pa, 100.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.19347e-21	(1.00)	2.19347e-21	(1.00)
Formation of rad11	2.14498e-21	(0.978)	2.14498e-21	(0.978)
Formation of rad6	4.83503e-23	(0.0220)	4.83503e-23	(0.0220)
H-abstraction	1.47101e-25	(6.71e-05)	1.47101e-25	(6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.977660	0.977660	0.977660	0.977660
rad6	0.0222604	0.999921	0.0222604	0.999921
Benzene+2-propynyl	6.70630e-05	0.999988	6.70630e-05	0.999988
rad21	1.10401e-05	0.999999	1.10401e-05	0.999999
rad20	5.67947e-07	1.000000	5.67947e-07	1.000000
rad22	2.25376e-07	1.000000	2.25376e-07	1.000000
rad13	2.52533e-08	1.000000	2.52533e-08	1.000000
rad45	2.30345e-08	1.000000	2.30345e-08	1.000000
rad7	8.37725e-09	1.000000	8.37725e-09	1.000000
rad25	5.92459e-09	1.000000	5.92459e-09	1.000000
rad24	3.26118e-09	1.000000	3.26118e-09	1.000000
rad18	2.69040e-09	1.000000	2.69040e-09	1.000000
rad36	1.79143e-09	1.000000	1.79143e-09	1.000000
PhCHCCH2+H	4.69509e-10	1.000000	4.69509e-10	1.000000
rad33	2.24303e-10	1.000000	2.24303e-10	1.000000
Indene+H	3.84013e-11	1.000000	3.84013e-11	1.000000
C2H2+PhCH2	2.95195e-11	1.000000	2.95195e-11	1.000000
rad9	2.79141e-11	1.000000	2.79141e-11	1.000000
rad23	1.20572e-11	1.000000	1.20572e-11	1.000000
Phenyl+Allene	2.76715e-12	1.000000	0.000000	1.000000
rad3	2.31918e-13	1.000000	2.31918e-13	1.000000
rad4	1.36805e-13	1.000000	1.36805e-13	1.000000
rad28	1.16458e-14	1.000000	1.16458e-14	1.000000
PhCH2CCH+H	3.41311e-16	1.000000	3.41311e-16	1.000000
rad2	8.27001e-18	1.000000	8.27001e-18	1.000000
rad30	3.66973e-18	1.000000	3.66973e-18	1.000000
rad8	1.01950e-18	1.000000	1.01950e-18	1.000000
rad1	8.06306e-19	1.000000	8.06306e-19	1.000000
rad15	5.88418e-19	1.000000	5.88418e-19	1.000000
PhCCH+CH3	1.12567e-19	1.000000	1.12567e-19	1.000000
rad38	2.41965e-20	1.000000	2.41965e-20	1.000000
rad14	6.10190e-21	1.000000	6.10190e-21	1.000000
PAH7+H	3.28791e-21	1.000000	3.28791e-21	1.000000
rad31	4.76490e-22	1.000000	4.76490e-22	1.000000
rad46	1.35234e-22	1.000000	1.35234e-22	1.000000
Ph+MeAc	4.02620e-23	1.000000	4.02620e-23	1.000000
rad60syn	2.94432e-23	1.000000	2.94432e-23	1.000000
rad10	2.14794e-23	1.000000	2.14794e-23	1.000000
PAH9+H	6.20699e-24	1.000000	6.20699e-24	1.000000
rad60anti	6.05156e-24	1.000000	6.05156e-24	1.000000
rad35	3.46534e-24	1.000000	3.46534e-24	1.000000
rad26	5.96912e-26	1.000000	5.96912e-26	1.000000
rad39	4.02734e-26	1.000000	4.02734e-26	1.000000
rad27	3.94988e-26	1.000000	3.94988e-26	1.000000
PhCCCH3+H	2.41591e-26	1.000000	2.41591e-26	1.000000
PAH3+H	3.87046e-28	1.000000	3.87046e-28	1.000000
rad59	1.67421e-28	1.000000	1.67421e-28	1.000000
rad50	1.94683e-30	1.000000	1.94683e-30	1.000000
rad19syn	5.26280e-33	1.000000	5.26280e-33	1.000000
rad54	4.59158e-34	1.000000	4.59158e-34	1.000000
rad5	3.29260e-34	1.000000	3.29260e-34	1.000000
rad12	2.04112e-35	1.000000	2.04112e-35	1.000000
rad37	5.63989e-37	1.000000	5.63989e-37	1.000000
rad52	5.39383e-37	1.000000	5.39383e-37	1.000000
rad70	2.03960e-38	1.000000	2.03960e-38	1.000000
rad55	2.50452e-40	1.000000	2.50452e-40	1.000000
rad51	8.65328e-41	1.000000	8.65328e-41	1.000000
PhcycC3H3_A+H	7.81201e-42	1.000000	7.81201e-42	1.000000
rad62	7.00865e-42	1.000000	7.00865e-42	1.000000
rad58	2.98719e-43	1.000000	2.98719e-43	1.000000
rad34	2.02819e-43	1.000000	2.02819e-43	1.000000
rad43	7.73865e-45	1.000000	7.73865e-45	1.000000
PAH10+CH3	3.55402e-46	1.000000	3.55402e-46	1.000000
rad47	9.15045e-47	1.000000	9.15045e-47	1.000000
rad65	2.46663e-47	1.000000	2.46663e-47	1.000000

PAH1+H	1.48233e-48	1.000000	1.48233e-48	1.000000
rad42	1.60115e-51	1.000000	1.60115e-51	1.000000
rad41	2.09669e-55	1.000000	2.09669e-55	1.000000

1000000.00 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06527e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44008e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.968281	0.968281	0.968281	0.968281
rad6	0.0315215	0.999803	0.0315215	0.999803
Benzene+2-propynyl	0.000183695	0.999986	0.000183695	0.999986
rad21	1.24141e-05	0.999999	1.24141e-05	0.999999
rad20	7.15099e-07	0.999999	7.15099e-07	0.999999
rad22	2.84893e-07	1.000000	2.84893e-07	1.000000
rad13	4.07380e-08	1.000000	4.07380e-08	1.000000
rad45	3.00340e-08	1.000000	3.00340e-08	1.000000
rad7	1.36454e-08	1.000000	1.36454e-08	1.000000
rad25	6.97539e-09	1.000000	6.97539e-09	1.000000
rad18	3.82428e-09	1.000000	3.82428e-09	1.000000
rad24	3.50999e-09	1.000000	3.50999e-09	1.000000
rad36	2.30658e-09	1.000000	2.30658e-09	1.000000
PhCHCCH2+H	5.88257e-10	1.000000	5.88257e-10	1.000000
rad33	3.62521e-10	1.000000	3.62521e-10	1.000000
Indene+H	5.65520e-11	1.000000	5.65520e-11	1.000000
C2H2+PhCH2	4.43291e-11	1.000000	4.43291e-11	1.000000
rad9	3.58249e-11	1.000000	3.58249e-11	1.000000
rad23	1.77215e-11	1.000000	1.77215e-11	1.000000
Phenyl+Allene	4.52776e-12	1.000000	0.000000	1.000000
rad3	4.38867e-13	1.000000	4.38867e-13	1.000000
rad4	2.57713e-13	1.000000	2.57713e-13	1.000000
rad28	2.26686e-14	1.000000	2.26686e-14	1.000000
PhCH2CCH+H	1.25326e-15	1.000000	1.25326e-15	1.000000
rad2	1.85372e-17	1.000000	1.85372e-17	1.000000
rad30	6.48243e-18	1.000000	6.48243e-18	1.000000
rad8	2.12908e-18	1.000000	2.12908e-18	1.000000
rad1	1.78338e-18	1.000000	1.78338e-18	1.000000
rad15	1.06113e-18	1.000000	1.06113e-18	1.000000
PhCCH+CH3	2.79859e-19	1.000000	2.79859e-19	1.000000
rad38	4.08049e-20	1.000000	4.08049e-20	1.000000
rad14	1.44919e-20	1.000000	1.44919e-20	1.000000
PAH7+H	1.22485e-20	1.000000	1.22485e-20	1.000000
rad31	8.56023e-22	1.000000	8.56023e-22	1.000000
rad46	2.45143e-22	1.000000	2.45143e-22	1.000000
Ph+MeAc	1.23820e-22	1.000000	1.23820e-22	1.000000
rad60syn	6.89037e-23	1.000000	6.89037e-23	1.000000
rad10	5.78126e-23	1.000000	5.78126e-23	1.000000
rad60anti	1.54380e-23	1.000000	1.54380e-23	1.000000
PAH9+H	1.15944e-23	1.000000	1.15944e-23	1.000000
rad35	6.42659e-24	1.000000	6.42659e-24	1.000000
rad26	2.99528e-25	1.000000	2.99528e-25	1.000000
rad39	1.16985e-25	1.000000	1.16985e-25	1.000000
rad27	1.12547e-25	1.000000	1.12547e-25	1.000000
PhCCCH3+H	7.49633e-26	1.000000	7.49633e-26	1.000000
PAH3+H	2.50758e-27	1.000000	2.50758e-27	1.000000
rad59	1.04619e-27	1.000000	1.04619e-27	1.000000
rad50	1.10695e-29	1.000000	1.10695e-29	1.000000
rad19syn	1.19383e-31	1.000000	1.19383e-31	1.000000
rad54	1.59698e-32	1.000000	1.59698e-32	1.000000
rad5	2.26915e-33	1.000000	2.26915e-33	1.000000
rad12	1.29192e-34	1.000000	1.29192e-34	1.000000
rad52	8.21413e-36	1.000000	8.21413e-36	1.000000
rad37	3.95095e-36	1.000000	3.95095e-36	1.000000
rad70	8.61032e-37	1.000000	8.61032e-37	1.000000
rad55	1.76879e-38	1.000000	1.76879e-38	1.000000
rad51	2.31105e-39	1.000000	2.31105e-39	1.000000
PhcycC3H3_A+H	5.54544e-40	1.000000	5.54544e-40	1.000000
rad62	2.74843e-40	1.000000	2.74843e-40	1.000000
rad58	1.19496e-41	1.000000	1.19496e-41	1.000000
rad34	1.03934e-41	1.000000	1.03934e-41	1.000000
rad43	2.64925e-43	1.000000	2.64925e-43	1.000000
PAH10+CH3	1.02380e-44	1.000000	1.02380e-44	1.000000
rad47	4.61130e-45	1.000000	4.61130e-45	1.000000
rad65	8.73546e-46	1.000000	8.73546e-46	1.000000

PAH1+H	1.24070e-46	1.000000	1.24070e-46	1.000000
rad42	1.64951e-49	1.000000	1.64951e-49	1.000000
rad41	2.38207e-53	1.000000	2.38207e-53	1.000000

1000000.00 Pa, 120.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	4.24245e-20	(1.00)	4.24245e-20	(1.00)
Formation of rad11	4.06372e-20	(0.958)	4.06372e-20	(0.958)
Formation of rad6	1.76944e-21	(0.0417)	1.76944e-21	(0.0417)
H-abstraction	1.78210e-23	(0.000420)	1.78210e-23	(0.000420)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.957585	0.957585	0.957585	0.957585
rad6	0.0419801	0.999565	0.0419801	0.999565
Benzene+2-propynyl	1.000420064	0.999985	0.000420064	0.999985
rad21	1.38477e-05	0.999999	1.38477e-05	0.999999
rad20	8.86650e-07	0.999999	8.86650e-07	0.999999
rad22	3.54714e-07	1.000000	3.54714e-07	1.000000
rad13	6.13270e-08	1.000000	6.13270e-08	1.000000
rad45	3.84420e-08	1.000000	3.84420e-08	1.000000
rad7	2.07525e-08	1.000000	2.07525e-08	1.000000
rad25	8.17109e-09	1.000000	8.17109e-09	1.000000
rad18	5.31883e-09	1.000000	5.31883e-09	1.000000
rad24	3.74579e-09	1.000000	3.74579e-09	1.000000
rad36	2.92058e-09	1.000000	2.92058e-09	1.000000
PhCHCCH2+H	7.36437e-10	1.000000	7.36437e-10	1.000000
rad33	5.46747e-10	1.000000	5.46747e-10	1.000000
Indene+H	8.16405e-11	1.000000	8.16405e-11	1.000000
C2H2+PhCH2	6.54718e-11	1.000000	6.54718e-11	1.000000
rad9	4.59704e-11	1.000000	4.59704e-11	1.000000
rad23	2.54355e-11	1.000000	2.54355e-11	1.000000
Phenyl+Allene	7.31802e-12	1.000000	0.000000	1.000000
rad3	7.70791e-13	1.000000	7.70791e-13	1.000000
rad4	4.50876e-13	1.000000	4.50876e-13	1.000000
rad28	4.10359e-14	1.000000	4.10359e-14	1.000000
PhCH2CCH+H	4.11800e-15	1.000000	4.11800e-15	1.000000
rad2	3.84715e-17	1.000000	3.84715e-17	1.000000
rad30	1.12529e-17	1.000000	1.12529e-17	1.000000
rad8	4.43890e-18	1.000000	4.43890e-18	1.000000
rad1	3.65981e-18	1.000000	3.65981e-18	1.000000
rad15	1.88435e-18	1.000000	1.88435e-18	1.000000
PhCCH+CH3	6.49365e-19	1.000000	6.49365e-19	1.000000
rad38	6.76694e-20	1.000000	6.76694e-20	1.000000
PAH7+H	4.24713e-20	1.000000	4.24713e-20	1.000000
rad14	3.20223e-20	1.000000	3.20223e-20	1.000000
rad31	1.44516e-21	1.000000	1.44516e-21	1.000000
rad46	4.40013e-22	1.000000	4.40013e-22	1.000000
Ph+MeAc	3.56805e-22	1.000000	3.56805e-22	1.000000
rad60syn	1.60014e-22	1.000000	1.60014e-22	1.000000
rad10	1.44152e-22	1.000000	1.44152e-22	1.000000
rad60anti	3.87793e-23	1.000000	3.87793e-23	1.000000
PAH9+H	2.13451e-23	1.000000	2.13451e-23	1.000000
rad35	1.17811e-23	1.000000	1.17811e-23	1.000000
rad26	1.38277e-24	1.000000	1.38277e-24	1.000000
rad39	3.20181e-25	1.000000	3.20181e-25	1.000000
rad27	2.98722e-25	1.000000	2.98722e-25	1.000000
PhCCCH3+H	2.18171e-25	1.000000	2.18171e-25	1.000000
PAH3+H	1.55033e-26	1.000000	1.55033e-26	1.000000
rad59	6.20317e-27	1.000000	6.20317e-27	1.000000
rad50	5.97283e-29	1.000000	5.97283e-29	1.000000
rad19syn	2.28360e-30	1.000000	2.28360e-30	1.000000
rad54	4.85625e-31	1.000000	4.85625e-31	1.000000
rad5	1.41490e-32	1.000000	1.41490e-32	1.000000
rad12	7.80263e-34	1.000000	7.80263e-34	1.000000
rad52	1.26353e-34	1.000000	1.26353e-34	1.000000
rad70	5.74645e-35	1.000000	5.74645e-35	1.000000
rad37	2.70269e-35	1.000000	2.70269e-35	1.000000
rad55	1.63026e-36	1.000000	1.63026e-36	1.000000
rad51	7.07058e-38	1.000000	7.07058e-38	1.000000
PhcycC3H3_A+H	5.21675e-38	1.000000	5.21675e-38	1.000000
rad62	1.04908e-38	1.000000	1.04908e-38	1.000000
rad34	8.89067e-40	1.000000	8.89067e-40	1.000000
rad58	6.82606e-40	1.000000	6.82606e-40	1.000000
rad43	8.62586e-42	1.000000	8.62586e-42	1.000000
PAH10+CH3	3.52712e-43	1.000000	3.52712e-43	1.000000
rad47	3.09846e-43	1.000000	3.09846e-43	1.000000
rad65	3.95547e-44	1.000000	3.95547e-44	1.000000

PAH1+H	1.44207e-44	1.000000	1.44207e-44	1.000000
rad42	2.07608e-47	1.000000	2.07608e-47	1.000000
rad41	3.16295e-51	1.000000	3.16295e-51	1.000000

1000000.00 Pa, 130.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.33719e-19	(1.00)	1.33719e-19	(1.00)
Formation of rad11	1.26517e-19	(0.946)	1.26517e-19	(0.946)
Formation of rad6	7.08974e-21	(0.0530)	7.08974e-21	(0.0530)
H-abstraction	1.11864e-22	(0.000837)	1.11864e-22	(0.000837)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.945825	0.945825	0.945825	0.945825
rad6	0.0533210	0.999146	0.0533210	0.999146
Benzene+2-propynyl	1.000836559	0.999983	0.000836559	0.999983
rad21	1.53536e-05	0.999998	1.53536e-05	0.999998
rad20	1.08664e-06	0.999999	1.08664e-06	0.999999
rad22	4.36654e-07	0.999999	4.36654e-07	0.999999
rad13	8.75272e-08	1.000000	8.75272e-08	1.000000
rad45	4.85359e-08	1.000000	4.85359e-08	1.000000
rad7	2.99400e-08	1.000000	2.99400e-08	1.000000
rad25	9.54357e-09	1.000000	9.54357e-09	1.000000
rad18	7.27859e-09	1.000000	7.27859e-09	1.000000
rad24	3.97412e-09	1.000000	3.97412e-09	1.000000
rad36	3.65319e-09	1.000000	3.65319e-09	1.000000
PhCHCCH2+H	9.23095e-10	1.000000	9.23095e-10	1.000000
rad33	7.81693e-10	1.000000	7.81693e-10	1.000000
Indene+H	1.16230e-10	1.000000	1.16230e-10	1.000000
C2H2+PhCH2	9.56667e-11	1.000000	9.56667e-11	1.000000
rad9	5.90913e-11	1.000000	5.90913e-11	1.000000
rad23	3.58777e-11	1.000000	3.58777e-11	1.000000
Phenyl+Allene	1.17090e-11	1.000000	0.000000	1.000000
rad3	1.27905e-12	1.000000	1.27905e-12	1.000000
rad4	7.45691e-13	1.000000	7.45691e-13	1.000000
rad28	7.03309e-14	1.000000	7.03309e-14	1.000000
PhCH2CCH+H	1.21685e-14	1.000000	1.21685e-14	1.000000
rad2	7.54171e-17	1.000000	7.54171e-17	1.000000
rad30	1.93520e-17	1.000000	1.93520e-17	1.000000
rad8	9.24495e-18	1.000000	9.24495e-18	1.000000
rad1	7.10677e-18	1.000000	7.10677e-18	1.000000
rad15	3.32195e-18	1.000000	3.32195e-18	1.000000
PhCCH+CH3	1.43498e-18	1.000000	1.43498e-18	1.000000
PAH7+H	1.37356e-19	1.000000	1.37356e-19	1.000000
rad38	1.11220e-19	1.000000	1.11220e-19	1.000000
rad14	6.71717e-20	1.000000	6.71717e-20	1.000000
rad31	2.32983e-21	1.000000	2.32983e-21	1.000000
Ph+MeAc	9.81579e-22	1.000000	9.81579e-22	1.000000
rad46	7.87942e-22	1.000000	7.87942e-22	1.000000
rad60syn	3.70618e-22	1.000000	3.70618e-22	1.000000
rad10	3.40567e-22	1.000000	3.40567e-22	1.000000
rad60anti	9.64081e-23	1.000000	9.64081e-23	1.000000
PAH9+H	3.90884e-23	1.000000	3.90884e-23	1.000000
rad35	2.16202e-23	1.000000	2.16202e-23	1.000000
rad26	5.74716e-24	1.000000	5.74716e-24	1.000000
rad39	8.41938e-25	1.000000	8.41938e-25	1.000000
rad27	7.55529e-25	1.000000	7.55529e-25	1.000000
PhCCCH3+H	6.09239e-25	1.000000	6.09239e-25	1.000000
PAH3+H	8.80431e-26	1.000000	8.80431e-26	1.000000
rad59	3.37088e-26	1.000000	3.37088e-26	1.000000
rad50	2.98009e-28	1.000000	2.98009e-28	1.000000
rad19syn	3.32767e-29	1.000000	3.32767e-29	1.000000
rad54	1.08319e-29	1.000000	1.08319e-29	1.000000
rad5	8.07918e-32	1.000000	8.07918e-32	1.000000
rad70	4.40520e-33	1.000000	4.40520e-33	1.000000
rad12	4.38284e-33	1.000000	4.38284e-33	1.000000
rad52	1.71235e-33	1.000000	1.71235e-33	1.000000
rad37	1.74293e-34	1.000000	1.74293e-34	1.000000
rad55	9.99253e-35	1.000000	9.99253e-35	1.000000
PhcycC3H3_A+H	3.50612e-36	1.000000	3.50612e-36	1.000000
rad51	1.94082e-36	1.000000	1.94082e-36	1.000000
rad62	3.26782e-37	1.000000	3.26782e-37	1.000000
rad34	9.76680e-38	1.000000	9.76680e-38	1.000000
rad58	4.20646e-38	1.000000	4.20646e-38	1.000000
rad43	2.36650e-40	1.000000	2.36650e-40	1.000000
rad47	2.22882e-41	1.000000	2.22882e-41	1.000000
PAH10+CH3	1.07300e-41	1.000000	1.07300e-41	1.000000
rad65	1.75671e-42	1.000000	1.75671e-42	1.000000

PAH1+H	1.54923e-42	1.000000	1.54923e-42	1.000000
rad42	2.37904e-45	1.000000	2.37904e-45	1.000000
rad41	3.74459e-49	1.000000	3.74459e-49	1.000000

1000000.00 Pa, 140.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.59582e-19	(1.00)	3.59582e-19	(1.00)
Formation of rad11	3.35703e-19	(0.934)	3.35703e-19	(0.934)
Formation of rad6	2.33415e-20	(0.0649)	2.33415e-20	(0.0649)
H-abstraction	5.37685e-22	(0.00150)	5.37685e-22	(0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.933241	0.933241	0.933241	0.933241
rad6	0.0652445	0.998486	0.0652445	0.998486
Benzene+2-propynyl	0.00149531	0.999981	0.00149531	0.999981
rad21	1.69462e-05	0.999998	1.69462e-05	0.999998
rad20	1.32011e-06	0.999999	1.32011e-06	0.999999
rad22	5.33000e-07	1.00000	5.33000e-07	1.00000
rad13	1.19799e-07	1.00000	1.19799e-07	1.00000
rad45	6.06705e-08	1.00000	6.06705e-08	1.00000
rad7	4.14524e-08	1.00000	4.14524e-08	1.00000
rad25	1.11320e-08	1.00000	1.11320e-08	1.00000
rad18	9.84251e-09	1.00000	9.84251e-09	1.00000
rad36	4.52977e-09	1.00000	4.52977e-09	1.00000
rad24	4.20000e-09	1.00000	4.20000e-09	1.00000
PhCHCCH2+H	1.16028e-09	1.00000	1.16028e-09	1.00000
rad33	1.07160e-09	1.00000	1.07160e-09	1.00000
Indene+H	1.63952e-10	1.00000	1.63952e-10	1.00000
C2H2+PhCH2	1.38922e-10	1.00000	1.38922e-10	1.00000
rad9	7.61894e-11	1.00000	7.61894e-11	1.00000
rad23	4.99786e-11	1.00000	4.99786e-11	1.00000
Phenyl+Allene	1.85776e-11	1.00000	0.00000	1.00000
rad3	2.03169e-12	1.00000	2.03169e-12	1.00000
rad4	1.18109e-12	1.00000	1.18109e-12	1.00000
rad28	1.15629e-13	1.00000	1.15629e-13	1.00000
PhCH2CCH+H	3.27764e-14	1.00000	3.27764e-14	1.00000
rad2	1.41729e-16	1.00000	1.41729e-16	1.00000
rad30	3.31744e-17	1.00000	3.31744e-17	1.00000
rad8	1.92154e-17	1.00000	1.92154e-17	1.00000
rad1	1.32497e-17	1.00000	1.32497e-17	1.00000
rad15	5.84931e-18	1.00000	5.84931e-18	1.00000
PhCCH+CH3	3.06507e-18	1.00000	3.06507e-18	1.00000
PAH7+H	4.16282e-19	1.00000	4.16282e-19	1.00000
rad38	1.82250e-19	1.00000	1.82250e-19	1.00000
rad14	1.35761e-19	1.00000	1.35761e-19	1.00000
rad31	3.62955e-21	1.00000	3.62955e-21	1.00000
Ph+MeAc	2.61137e-21	1.00000	2.61137e-21	1.00000
rad46	1.41537e-21	1.00000	1.41537e-21	1.00000
rad60syn	8.58606e-22	1.00000	8.58606e-22	1.00000
rad10	7.75267e-22	1.00000	7.75267e-22	1.00000
rad60anti	2.37962e-22	1.00000	2.37962e-22	1.00000
PAH9+H	7.17133e-23	1.00000	7.17133e-23	1.00000
rad35	4.02078e-23	1.00000	4.02078e-23	1.00000
rad26	2.15397e-23	1.00000	2.15397e-23	1.00000
rad39	2.15595e-24	1.00000	2.15595e-24	1.00000
rad27	1.85166e-24	1.00000	1.85166e-24	1.00000
PhCCCH3+H	1.65915e-24	1.00000	1.65915e-24	1.00000
PAH3+H	4.54324e-25	1.00000	4.54324e-25	1.00000
rad59	1.66443e-25	1.00000	1.66443e-25	1.00000
rad50	1.36690e-27	1.00000	1.36690e-27	1.00000
rad19syn	3.68735e-28	1.00000	3.68735e-28	1.00000
rad54	1.73849e-28	1.00000	1.73849e-28	1.00000
rad5	4.27495e-31	1.00000	4.27495e-31	1.00000
rad70	2.08311e-31	1.00000	2.08311e-31	1.00000
rad12	2.28274e-32	1.00000	2.28274e-32	1.00000
rad52	1.93296e-32	1.00000	1.93296e-32	1.00000
rad55	3.92685e-33	1.00000	3.92685e-33	1.00000
rad37	1.04824e-33	1.00000	1.04824e-33	1.00000
PhcycC3H3_A+H	1.53216e-34	1.00000	1.53216e-34	1.00000
rad51	4.24131e-35	1.00000	4.24131e-35	1.00000
rad34	1.04060e-35	1.00000	1.04060e-35	1.00000
rad62	7.83918e-36	1.00000	7.83918e-36	1.00000
rad58	2.04109e-36	1.00000	2.04109e-36	1.00000
rad43	5.23865e-39	1.00000	5.23865e-39	1.00000
rad47	1.38588e-39	1.00000	1.38588e-39	1.00000
PAH10+CH3	2.56635e-40	1.00000	2.56635e-40	1.00000
PAH1+H	1.47998e-40	1.00000	1.47998e-40	1.00000

rad65	6.10926e-41	1.00000	6.10926e-41	1.00000
rad42	2.64572e-43	1.00000	2.64572e-43	1.00000
rad41	4.04520e-47	1.00000	4.04520e-47	1.00000

1000000.00 Pa, 150.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	8.51464e-19	(1.00)	8.51464e-19	(1.00)
Formation of rad11	7.83711e-19	(0.920)	7.83711e-19	(0.920)
Formation of rad6	6.56651e-20	(0.0771)	6.56651e-20	(0.0771)
H-abstraction	2.08816e-21	(0.00245)	2.08816e-21	(0.00245)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.920042	0.920042	0.920042	0.920042
rad6	0.0774842	0.997526	0.0774842	0.997526
Benzene+2-propynyl	0.00245244	0.999979	0.00245244	0.999979
rad21	1.86418e-05	0.999997	1.86418e-05	0.999997
rad20	1.59328e-06	0.999999	1.59328e-06	0.999999
rad22	6.46604e-07	1.000000	6.46604e-07	1.000000
rad13	1.58591e-07	1.000000	1.58591e-07	1.000000
rad45	7.52988e-08	1.000000	7.52988e-08	1.000000
rad7	5.55524e-08	1.000000	5.55524e-08	1.000000
rad18	1.31962e-08	1.000000	1.31962e-08	1.000000
rad25	1.29849e-08	1.000000	1.29849e-08	1.000000
rad36	5.58270e-09	1.000000	5.58270e-09	1.000000
rad24	4.42798e-09	1.000000	4.42798e-09	1.000000
PhCHCCH2+H	1.46407e-09	1.000000	1.46407e-09	1.000000
rad33	1.42049e-09	1.000000	1.42049e-09	1.000000
Indene+H	2.30007e-10	1.000000	2.30007e-10	1.000000
C2H2+PhCH2	2.01188e-10	1.000000	2.01188e-10	1.000000
rad9	9.86210e-11	1.000000	9.86210e-11	1.000000
rad23	6.90227e-11	1.000000	6.90227e-11	1.000000
Phenyl+Allene	2.92650e-11	1.000000	0.00000	1.000000
rad3	3.11965e-12	1.000000	3.11965e-12	1.000000
rad4	1.80910e-12	1.000000	1.80910e-12	1.000000
rad28	1.84161e-13	1.000000	1.84161e-13	1.000000
PhCH2CCH+H	8.16342e-14	1.000000	8.16342e-14	1.000000
rad2	2.58203e-16	1.000000	2.58203e-16	1.000000
rad30	5.69517e-17	1.000000	5.69517e-17	1.000000
rad8	3.97938e-17	1.000000	3.97938e-17	1.000000
rad1	2.39794e-17	1.000000	2.39794e-17	1.000000
rad15	1.03331e-17	1.000000	1.03331e-17	1.000000
PhCCH+CH3	6.39722e-18	1.000000	6.39722e-18	1.000000
PAH7+H	1.18989e-18	1.000000	1.18989e-18	1.000000
rad38	2.99090e-19	1.000000	2.99090e-19	1.000000
rad14	2.67317e-19	1.000000	2.67317e-19	1.000000
Ph+MeAc	6.77701e-21	1.000000	6.77701e-21	1.000000
rad31	5.51323e-21	1.000000	5.51323e-21	1.000000
rad46	2.55983e-21	1.000000	2.55983e-21	1.000000
rad60syn	1.99199e-21	1.000000	1.99199e-21	1.000000
rad10	1.72206e-21	1.000000	1.72206e-21	1.000000
rad60anti	5.84144e-22	1.000000	5.84144e-22	1.000000
PAH9+H	1.32532e-22	1.000000	1.32532e-22	1.000000
rad35	7.66925e-23	1.000000	7.66925e-23	1.000000
rad26	7.35703e-23	1.000000	7.35703e-23	1.000000
rad39	5.42480e-24	1.000000	5.42480e-24	1.000000
PhCCCH3+H	4.45657e-24	1.000000	4.45657e-24	1.000000
rad27	4.45167e-24	1.000000	4.45167e-24	1.000000
PAH3+H	2.13781e-24	1.000000	2.13781e-24	1.000000
rad59	7.50338e-25	1.000000	7.50338e-25	1.000000
rad50	5.78899e-27	1.000000	5.78899e-27	1.000000
rad19syn	3.20190e-27	1.000000	3.20190e-27	1.000000
rad54	2.07134e-27	1.000000	2.07134e-27	1.000000
rad70	6.00751e-30	1.000000	6.00751e-30	1.000000
rad5	2.11833e-30	1.000000	2.11833e-30	1.000000
rad52	1.80564e-31	1.000000	1.80564e-31	1.000000
rad12	1.10873e-31	1.000000	1.10873e-31	1.000000
rad55	9.92341e-32	1.000000	9.92341e-32	1.000000
rad37	5.88033e-33	1.000000	5.88033e-33	1.000000
PhcycC3H3_A+H	4.24211e-33	1.000000	4.24211e-33	1.000000
rad34	9.33595e-34	1.000000	9.33595e-34	1.000000
rad51	7.20882e-34	1.000000	7.20882e-34	1.000000
rad62	1.44097e-34	1.000000	1.44097e-34	1.000000
rad58	6.92097e-35	1.000000	6.92097e-35	1.000000
rad43	9.31643e-38	1.000000	9.31643e-38	1.000000
rad47	6.51422e-38	1.000000	6.51422e-38	1.000000
PAH1+H	7.00560e-39	1.000000	7.00560e-39	1.000000
PAH10+CH3	4.79509e-39	1.000000	4.79509e-39	1.000000

rad65	1.59124e-39	1.000000	1.59124e-39	1.000000
rad42	1.90144e-41	1.000000	1.90144e-41	1.000000
rad41	2.88235e-45	1.000000	2.88235e-45	1.000000

1000000.00 Pa, 160.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.81800e-18	(1.00)	1.81800e-18	(1.00)
Formation of rad11	1.64862e-18	(0.907)	1.64862e-18	(0.907)
Formation of rad6	1.62558e-19	(0.0894)	1.62558e-19	(0.0894)
H-abstraction	6.82130e-21	(0.00375)	6.82130e-21	(0.00375)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.906410	0.906410	0.906410	0.906410
rad6	0.0898144	0.996225	0.0898144	0.996225
Benzene+2-propynyl	0.00375209	0.999977	0.00375209	0.999977
rad21	2.04580e-05	0.999997	2.04580e-05	0.999997
rad20	1.91379e-06	0.999999	1.91379e-06	0.999999
rad22	7.81022e-07	1.000000	7.81022e-07	1.000000
rad13	2.04375e-07	1.000000	2.04375e-07	1.000000
rad45	9.29955e-08	1.000000	9.29955e-08	1.000000
rad7	7.25371e-08	1.000000	7.25371e-08	1.000000
rad18	1.75881e-08	1.000000	1.75881e-08	1.000000
rad25	1.51613e-08	1.000000	1.51613e-08	1.000000
rad36	6.85319e-09	1.000000	6.85319e-09	1.000000
rad24	4.66227e-09	1.000000	4.66227e-09	1.000000
PhCHCCH2+H	1.85595e-09	1.000000	1.85595e-09	1.000000
rad33	1.83240e-09	1.000000	1.83240e-09	1.000000
Indene+H	3.21883e-10	1.000000	3.21883e-10	1.000000
C2H2+PhCH2	2.91347e-10	1.000000	2.91347e-10	1.000000
rad9	1.28225e-10	1.000000	1.28225e-10	1.000000
rad23	9.47943e-11	1.000000	9.47943e-11	1.000000
Phenyl+Allene	4.58118e-11	1.000000	0.000000	1.000000
rad3	4.66539e-12	1.000000	4.66539e-12	1.000000
rad4	2.69984e-12	1.000000	2.69984e-12	1.000000
rad28	2.86280e-13	1.000000	2.86280e-13	1.000000
PhCH2CCH+H	1.90397e-13	1.000000	1.90397e-13	1.000000
rad2	4.59921e-16	1.000000	4.59921e-16	1.000000
rad30	9.82354e-17	1.000000	9.82354e-17	1.000000
rad8	8.19757e-17	1.000000	8.19757e-17	1.000000
rad1	4.24839e-17	1.000000	4.24839e-17	1.000000
rad15	1.83690e-17	1.000000	1.83690e-17	1.000000
PhCCH+CH3	1.31497e-17	1.000000	1.31497e-17	1.000000
PAH7+H	3.22988e-18	1.000000	3.22988e-18	1.000000
rad14	5.17041e-19	1.000000	5.17041e-19	1.000000
rad38	4.93197e-19	1.000000	4.93197e-19	1.000000
Ph+MeAc	1.72540e-20	1.000000	1.72540e-20	1.000000
rad31	8.22237e-21	1.000000	8.22237e-21	1.000000
rad46	4.67211e-21	1.000000	4.67211e-21	1.000000
rad60syn	4.62817e-21	1.000000	4.62817e-21	1.000000
rad10	3.76768e-21	1.000000	3.76768e-21	1.000000
rad60anti	1.42697e-21	1.000000	1.42697e-21	1.000000
PAH9+H	2.47693e-22	1.000000	2.47693e-22	1.000000
rad26	2.31896e-22	1.000000	2.31896e-22	1.000000
rad35	1.51685e-22	1.000000	1.51685e-22	1.000000
rad39	1.34884e-23	1.000000	1.34884e-23	1.000000
PhCCCH3+H	1.18946e-23	1.000000	1.18946e-23	1.000000
rad27	1.05903e-23	1.000000	1.05903e-23	1.000000
PAH3+H	9.25552e-24	1.000000	9.25552e-24	1.000000
rad59	3.11802e-24	1.000000	3.11802e-24	1.000000
rad50	2.28222e-26	1.000000	2.28222e-26	1.000000
rad19syn	2.25755e-26	1.000000	2.25755e-26	1.000000
rad54	1.90992e-26	1.000000	1.90992e-26	1.000000
rad70	1.18874e-28	1.000000	1.18874e-28	1.000000
rad5	9.91645e-30	1.000000	9.91645e-30	1.000000
rad55	1.76127e-30	1.000000	1.76127e-30	1.000000
rad52	1.41599e-30	1.000000	1.41599e-30	1.000000
rad12	5.05984e-31	1.000000	5.05984e-31	1.000000
PhcycC3H3_A+H	8.25219e-32	1.000000	8.25219e-32	1.000000
rad34	4.14179e-32	1.000000	4.14179e-32	1.000000
rad37	3.08859e-32	1.000000	3.08859e-32	1.000000
rad51	9.65986e-33	1.000000	9.65986e-33	1.000000
rad62	2.08374e-33	1.000000	2.08374e-33	1.000000
rad58	1.67323e-33	1.000000	1.67323e-33	1.000000
rad47	2.11644e-36	1.000000	2.11644e-36	1.000000
rad43	1.35626e-36	1.000000	1.35626e-36	1.000000
PAH1+H	2.12458e-37	1.000000	2.12458e-37	1.000000
PAH10+CH3	7.15922e-38	1.000000	7.15922e-38	1.000000

rad65	3.14917e-38	1.00000	3.14917e-38	1.00000
rad42	8.33220e-40	1.00000	8.33220e-40	1.00000
rad41	1.31164e-43	1.00000	1.31164e-43	1.00000

1000000.00 Pa, 170.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.56414e-18	(1.00)	3.56414e-18	(1.00)
Formation of rad11	3.18264e-18	(0.893)	3.18264e-18	(0.893)
Formation of rad6	3.62173e-19	(0.102)	3.62173e-19	(0.102)
H-abstraction	1.93278e-20	(0.00542)	1.93278e-20	(0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.892500	0.892500	0.892500	0.892500
rad6	0.102052	0.994551	0.102052	0.994551
Benzene+2-propynyl	0.00542285	0.999974	0.00542285	0.999974
rad21	2.24143e-05	0.999997	2.24143e-05	0.999997
rad20	2.29097e-06	0.999999	2.29097e-06	0.999999
rad22	9.40660e-07	1.000000	9.40660e-07	1.000000
rad13	2.57669e-07	1.000000	2.57669e-07	1.000000
rad45	1.14489e-07	1.000000	1.14489e-07	1.000000
rad7	9.27542e-08	1.000000	9.27542e-08	1.000000
rad18	2.33515e-08	1.000000	2.33515e-08	1.000000
rad25	1.77345e-08	1.000000	1.77345e-08	1.000000
rad36	8.39365e-09	1.000000	8.39365e-09	1.000000
rad24	4.90679e-09	1.000000	4.90679e-09	1.000000
PhCHCCH2+H	2.36465e-09	1.000000	2.36465e-09	1.000000
rad33	2.31152e-09	1.000000	2.31152e-09	1.000000
Indene+H	4.50455e-10	1.000000	4.50455e-10	1.000000
C2H2+PhCH2	4.22718e-10	1.000000	4.22718e-10	1.000000
rad9	1.67491e-10	1.000000	1.67491e-10	1.000000
rad23	1.29782e-10	1.000000	1.29782e-10	1.000000
Phenyl+Allene	7.13059e-11	1.000000	0.000000	1.000000
rad3	6.83480e-12	1.000000	6.83480e-12	1.000000
rad4	3.94837e-12	1.000000	3.94837e-12	1.000000
rad28	4.36863e-13	1.000000	4.36863e-13	1.000000
PhCH2CCH+H	4.20232e-13	1.000000	4.20232e-13	1.000000
rad2	8.06216e-16	1.000000	8.06216e-16	1.000000
rad30	1.70615e-16	1.000000	1.70615e-16	1.000000
rad8	1.67734e-16	1.000000	1.67734e-16	1.000000
rad1	7.41576e-17	1.000000	7.41576e-17	1.000000
rad15	3.29191e-17	1.000000	3.29191e-17	1.000000
PhCCH+CH3	2.67672e-17	1.000000	2.67672e-17	1.000000
PAH7+H	8.37885e-18	1.000000	8.37885e-18	1.000000
rad14	9.88289e-19	1.000000	9.88289e-19	1.000000
rad38	8.19052e-19	1.000000	8.19052e-19	1.000000
Ph+MeAc	4.32457e-20	1.000000	4.32457e-20	1.000000
rad31	1.21061e-20	1.000000	1.21061e-20	1.000000
rad60syn	1.07597e-20	1.000000	1.07597e-20	1.000000
rad46	8.61484e-21	1.000000	8.61484e-21	1.000000
rad10	8.17495e-21	1.000000	8.17495e-21	1.000000
rad60anti	3.46824e-21	1.000000	3.46824e-21	1.000000
rad26	6.82503e-22	1.000000	6.82503e-22	1.000000
PAH9+H	4.69321e-22	1.000000	4.69321e-22	1.000000
rad35	3.13587e-22	1.000000	3.13587e-22	1.000000
PAH3+H	3.72358e-23	1.000000	3.72358e-23	1.000000
rad39	3.32452e-23	1.000000	3.32452e-23	1.000000
PhCCCH3+H	3.16806e-23	1.000000	3.16806e-23	1.000000
rad27	2.50744e-23	1.000000	2.50744e-23	1.000000
rad59	1.20658e-23	1.000000	1.20658e-23	1.000000
rad54	1.41687e-25	1.000000	1.41687e-25	1.000000
rad19syn	1.33528e-25	1.000000	1.33528e-25	1.000000
rad50	8.44871e-26	1.000000	8.44871e-26	1.000000
rad70	1.71875e-27	1.000000	1.71875e-27	1.000000
rad5	4.41596e-29	1.000000	4.41596e-29	1.000000
rad55	2.31056e-29	1.000000	2.31056e-29	1.000000
rad52	9.51590e-30	1.000000	9.51590e-30	1.000000
rad12	2.18434e-30	1.000000	2.18434e-30	1.000000
PhcycC3H3_A+H	1.18351e-30	1.000000	1.18351e-30	1.000000
rad34	1.01085e-30	1.000000	1.01085e-30	1.000000
rad37	1.52572e-31	1.000000	1.52572e-31	1.000000
rad51	1.04549e-31	1.000000	1.04549e-31	1.000000
rad58	2.97613e-32	1.000000	2.97613e-32	1.000000
rad62	2.43587e-32	1.000000	2.43587e-32	1.000000
rad47	4.71225e-35	1.000000	4.71225e-35	1.000000
rad43	1.64722e-35	1.000000	1.64722e-35	1.000000
PAH1+H	4.33882e-36	1.000000	4.33882e-36	1.000000
PAH10+CH3	8.73844e-37	1.000000	8.73844e-37	1.000000

rad65	4.84237e-37	1.00000	4.84237e-37	1.00000
rad42	2.19705e-38	1.00000	2.19705e-38	1.00000
rad41	3.69780e-42	1.00000	3.69780e-42	1.00000

1000000.00 Pa, 180.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	6.50681e-18	(1.00)	6.50681e-18	(1.00)
Formation of rad11	5.71915e-18	(0.879)	5.71915e-18	(0.879)
Formation of rad6	7.39013e-19	(0.114)	7.39013e-19	(0.114)
H-abstraction	4.86496e-20	(0.00748)	4.86496e-20	(0.00748)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.878444	0.878444	0.878444	0.878444
rad6	0.114051	0.992494	0.114051	0.992494
Benzene+2-propynyl	0.00747672	0.999971	0.00747672	0.999971
rad21	2.45323e-05	0.999996	2.45323e-05	0.999996
rad20	2.73611e-06	0.999998	2.73611e-06	0.999998
rad22	1.13098e-06	1.000000	1.13098e-06	1.000000
rad13	3.19062e-07	1.000000	3.19062e-07	1.000000
rad45	1.40700e-07	1.000000	1.40700e-07	1.000000
rad7	1.16618e-07	1.000000	1.16618e-07	1.000000
rad18	3.09340e-08	1.000000	3.09340e-08	1.000000
rad25	2.07942e-08	1.000000	2.07942e-08	1.000000
rad36	1.02706e-08	1.000000	1.02706e-08	1.000000
rad24	5.16526e-09	1.000000	5.16526e-09	1.000000
PhCHCCH2+H	3.02856e-09	1.000000	3.02856e-09	1.000000
rad33	2.86224e-09	1.000000	2.86224e-09	1.000000
Indene+H	6.31598e-10	1.000000	6.31598e-10	1.000000
C2H2+PhCH2	6.15336e-10	1.000000	6.15336e-10	1.000000
rad9	2.19793e-10	1.000000	2.19793e-10	1.000000
rad23	1.77472e-10	1.000000	1.77472e-10	1.000000
Phenyl+Allene	1.10392e-10	1.000000	0.000000	1.000000
rad3	9.85338e-12	1.000000	9.85338e-12	1.000000
rad4	5.68412e-12	1.000000	5.68412e-12	1.000000
PhCH2CCH+H	8.85221e-13	1.000000	8.85221e-13	1.000000
rad28	6.57327e-13	1.000000	6.57327e-13	1.000000
rad2	1.39766e-15	1.000000	1.39766e-15	1.000000
rad8	3.40490e-16	1.000000	3.40490e-16	1.000000
rad30	2.98693e-16	1.000000	2.98693e-16	1.000000
rad1	1.28159e-16	1.000000	1.28159e-16	1.000000
rad15	5.95145e-17	1.000000	5.95145e-17	1.000000
PhCCH+CH3	5.41544e-17	1.000000	5.41544e-17	1.000000
PAH7+H	2.08885e-17	1.000000	2.08885e-17	1.000000
rad14	1.87478e-18	1.000000	1.87478e-18	1.000000
rad38	1.37175e-18	1.000000	1.37175e-18	1.000000
Ph+MeAc	1.06921e-19	1.000000	1.06921e-19	1.000000
rad60syn	2.49955e-20	1.000000	2.49955e-20	1.000000
rad31	1.76735e-20	1.000000	1.76735e-20	1.000000
rad10	1.76733e-20	1.000000	1.76733e-20	1.000000
rad46	1.60494e-20	1.000000	1.60494e-20	1.000000
rad60anti	8.38106e-21	1.000000	8.38106e-21	1.000000
rad26	1.89449e-21	1.000000	1.89449e-21	1.000000
PAH9+H	9.02679e-22	1.000000	9.02679e-22	1.000000
rad35	6.79639e-22	1.000000	6.79639e-22	1.000000
PAH3+H	1.40466e-22	1.000000	1.40466e-22	1.000000
PhCCCH3+H	8.43709e-23	1.000000	8.43709e-23	1.000000
rad39	8.13387e-23	1.000000	8.13387e-23	1.000000
rad27	5.92906e-23	1.000000	5.92906e-23	1.000000
rad59	4.38789e-23	1.000000	4.38789e-23	1.000000
rad54	8.74371e-25	1.000000	8.74371e-25	1.000000
rad19syn	6.81244e-25	1.000000	6.81244e-25	1.000000
rad50	2.96049e-25	1.000000	2.96049e-25	1.000000
rad70	1.91224e-26	1.000000	1.91224e-26	1.000000
rad55	2.34749e-28	1.000000	2.34749e-28	1.000000
rad5	1.88061e-28	1.000000	1.88061e-28	1.000000
rad52	5.59577e-29	1.000000	5.59577e-29	1.000000
rad34	1.67122e-29	1.000000	1.67122e-29	1.000000
PhcycC3H3_A+H	1.31256e-29	1.000000	1.31256e-29	1.000000
rad12	8.96830e-30	1.000000	8.96830e-30	1.000000
rad51	9.38508e-31	1.000000	9.38508e-31	1.000000
rad37	7.11753e-31	1.000000	7.11753e-31	1.000000
rad58	4.06213e-31	1.000000	4.06213e-31	1.000000
rad62	2.36361e-31	1.000000	2.36361e-31	1.000000
rad47	7.64387e-34	1.000000	7.64387e-34	1.000000
rad43	1.69968e-34	1.000000	1.69968e-34	1.000000
PAH1+H	6.54380e-35	1.000000	6.54380e-35	1.000000
PAH10+CH3	8.91074e-36	1.000000	8.91074e-36	1.000000

rad65	5.95476e-36	1.00000	5.95476e-36	1.00000
rad42	4.15594e-37	1.00000	4.15594e-37	1.00000
rad41	7.49542e-41	1.00000	7.49542e-41	1.00000

1000000.00 Pa, 190.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.11858e-17	(1.00)	1.11858e-17	(1.00)
Formation of rad11	9.67466e-18	(0.865)	9.67466e-18	(0.865)
Formation of rad6	1.40029e-18	(0.125)	1.40029e-18	(0.125)
H-abstraction	1.10851e-19	(0.00991)	1.10851e-19	(0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.864355	0.864355	0.864355	0.864355
rad6	0.125704	0.990058	0.125704	0.990058
Benzene+2-propynyl	0.00990995	0.999968	0.00990995	0.999968
rad21	2.68353e-05	0.999995	2.68353e-05	0.999995
rad20	3.26287e-06	0.999998	3.26287e-06	0.999998
rad22	1.35870e-06	1.000000	1.35870e-06	1.000000
rad13	3.89226e-07	1.000000	3.89226e-07	1.000000
rad45	1.72792e-07	1.000000	1.72792e-07	1.000000
rad7	1.44626e-07	1.000000	1.44626e-07	1.000000
rad18	4.09362e-08	1.000000	4.09362e-08	1.000000
rad25	2.44506e-08	1.000000	2.44506e-08	1.000000
rad36	1.25683e-08	1.000000	1.25683e-08	1.000000
rad24	5.44128e-09	1.000000	5.44128e-09	1.000000
PhCHCCH2+H	3.89902e-09	1.000000	3.89902e-09	1.000000
rad33	3.48923e-09	1.000000	3.48923e-09	1.000000
C2H2+PhCH2	8.99387e-10	1.000000	8.99387e-10	1.000000
Indene+H	8.88597e-10	1.000000	8.88597e-10	1.000000
rad9	2.89693e-10	1.000000	2.89693e-10	1.000000
rad23	2.42760e-10	1.000000	2.42760e-10	1.000000
Phenyl+Allene	1.70014e-10	1.000000	0.000000	1.000000
rad3	1.40282e-11	1.000000	1.40282e-11	1.000000
rad4	8.08358e-12	1.000000	8.08358e-12	1.000000
PhCH2CCH+H	1.79189e-12	1.000000	1.79189e-12	1.000000
rad28	9.78517e-13	1.000000	9.78517e-13	1.000000
rad2	2.40500e-15	1.000000	2.40500e-15	1.000000
rad8	6.85044e-16	1.000000	6.85044e-16	1.000000
rad30	5.27216e-16	1.000000	5.27216e-16	1.000000
rad1	2.20071e-16	1.000000	2.20071e-16	1.000000
PhCCH+CH3	1.09135e-16	1.000000	1.09135e-16	1.000000
rad15	1.08522e-16	1.000000	1.08522e-16	1.000000
PAH7+H	5.02758e-17	1.000000	5.02758e-17	1.000000
rad14	3.53957e-18	1.000000	3.53957e-18	1.000000
rad38	2.31833e-18	1.000000	2.31833e-18	1.000000
Ph+MeAc	2.61020e-19	1.000000	2.61020e-19	1.000000
rad60syn	5.79242e-20	1.000000	5.79242e-20	1.000000
rad10	3.81818e-20	1.000000	3.81818e-20	1.000000
rad46	3.01910e-20	1.000000	3.01910e-20	1.000000
rad31	2.56721e-20	1.000000	2.56721e-20	1.000000
rad60anti	2.01152e-20	1.000000	2.01152e-20	1.000000
rad26	5.00071e-21	1.000000	5.00071e-21	1.000000
PAH9+H	1.76274e-21	1.000000	1.76274e-21	1.000000
rad35	1.53923e-21	1.000000	1.53923e-21	1.000000
PAH3+H	5.00629e-22	1.000000	5.00629e-22	1.000000
PhCCCH3+H	2.24747e-22	1.000000	2.24747e-22	1.000000
rad39	1.97584e-22	1.000000	1.97584e-22	1.000000
rad59	1.51098e-22	1.000000	1.51098e-22	1.000000
rad27	1.40239e-22	1.000000	1.40239e-22	1.000000
rad54	4.61431e-24	1.000000	4.61431e-24	1.000000
rad19syn	3.06774e-24	1.000000	3.06774e-24	1.000000
rad50	9.88670e-25	1.000000	9.88670e-25	1.000000
rad70	1.70065e-25	1.000000	1.70065e-25	1.000000
rad55	1.91520e-27	1.000000	1.91520e-27	1.000000
rad5	7.68836e-28	1.000000	7.68836e-28	1.000000
rad52	2.93369e-28	1.000000	2.93369e-28	1.000000
rad34	2.05996e-28	1.000000	2.05996e-28	1.000000
PhcycC3H3_A+H	1.16536e-28	1.000000	1.16536e-28	1.000000
rad12	3.51604e-29	1.000000	3.51604e-29	1.000000
rad51	7.15516e-30	1.000000	7.15516e-30	1.000000
rad58	4.40574e-30	1.000000	4.40574e-30	1.000000
rad37	3.14619e-30	1.000000	3.14619e-30	1.000000
rad62	1.94325e-30	1.000000	1.94325e-30	1.000000
rad47	9.53794e-33	1.000000	9.53794e-33	1.000000
rad43	1.50866e-33	1.000000	1.50866e-33	1.000000
PAH1+H	7.56241e-34	1.000000	7.56241e-34	1.000000
PAH10+CH3	7.72330e-35	1.000000	7.72330e-35	1.000000

rad65	6.00928e-35	1.00000	6.00928e-35	1.00000
rad42	5.86338e-36	1.00000	5.86338e-36	1.00000
rad41	1.13440e-39	1.00000	1.13440e-39	1.00000

1000000.00 Pa, 200.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.82690e-17	(1.00)	1.82690e-17	(1.00)
Formation of rad11	1.55456e-17	(0.851)	1.55456e-17	(0.851)
Formation of rad6	2.49126e-18	(0.136)	2.49126e-18	(0.136)
H-abstraction	2.32112e-19	(0.0127)	2.32112e-19	(0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.850327	0.850327	0.850327	0.850327
rad6	0.136932	0.987259	0.136932	0.987259
Benzene+2-propynyl	0.0127053	0.999964	0.0127053	0.999964
rad21	2.93486e-05	0.999994	2.93486e-05	0.999994
rad20	3.88764e-06	0.999998	3.88764e-06	0.999998
rad22	1.63212e-06	0.999999	1.63212e-06	0.999999
rad13	4.68926e-07	1.000000	4.68926e-07	1.000000
rad45	2.12228e-07	1.000000	2.12228e-07	1.000000
rad7	1.77377e-07	1.000000	1.77377e-07	1.000000
rad18	5.41627e-08	1.000000	5.41627e-08	1.000000
rad25	2.88389e-08	1.000000	2.88389e-08	1.000000
rad36	1.53936e-08	1.000000	1.53936e-08	1.000000
rad24	5.73837e-09	1.000000	5.73837e-09	1.000000
PhCHCCH2+H	5.04459e-09	1.000000	5.04459e-09	1.000000
rad33	4.19728e-09	1.000000	4.19728e-09	1.000000
C2H2+PhCH2	1.32040e-09	1.000000	1.32040e-09	1.000000
Indene+H	1.25574e-09	1.000000	1.25574e-09	1.000000
rad9	3.83347e-10	1.000000	3.83347e-10	1.000000
rad23	3.32541e-10	1.000000	3.32541e-10	1.000000
Phenyl+Allene	2.60482e-10	1.000000	0.000000	1.000000
rad3	1.97775e-11	1.000000	1.97775e-11	1.000000
rad4	1.13877e-11	1.000000	1.13877e-11	1.000000
PhCH2CCH+H	3.50465e-12	1.000000	3.50465e-12	1.000000
rad28	1.44481e-12	1.000000	1.44481e-12	1.000000
rad2	4.11821e-15	1.000000	4.11821e-15	1.000000
rad8	1.36500e-15	1.000000	1.36500e-15	1.000000
rad30	9.37734e-16	1.000000	9.37734e-16	1.000000
rad1	3.76464e-16	1.000000	3.76464e-16	1.000000
PhCCH+CH3	2.19311e-16	1.000000	2.19311e-16	1.000000
rad15	1.99405e-16	1.000000	1.99405e-16	1.000000
PAH7+H	1.17264e-16	1.000000	1.17264e-16	1.000000
rad14	6.66228e-18	1.000000	6.66228e-18	1.000000
rad38	3.95381e-18	1.000000	3.95381e-18	1.000000
Ph+MeAc	6.29404e-19	1.000000	6.29404e-19	1.000000
rad60syn	1.33659e-19	1.000000	1.33659e-19	1.000000
rad10	8.25652e-20	1.000000	8.25652e-20	1.000000
rad46	5.72827e-20	1.000000	5.72827e-20	1.000000
rad60anti	4.78894e-20	1.000000	4.78894e-20	1.000000
rad31	3.72094e-20	1.000000	3.72094e-20	1.000000
rad26	1.26356e-20	1.000000	1.26356e-20	1.000000
rad35	3.61239e-21	1.000000	3.61239e-21	1.000000
PAH9+H	3.49260e-21	1.000000	3.49260e-21	1.000000
PAH3+H	1.69598e-21	1.000000	1.69598e-21	1.000000
PhCCCH3+H	5.98362e-22	1.000000	5.98362e-22	1.000000
rad59	4.95633e-22	1.000000	4.95633e-22	1.000000
rad39	4.76280e-22	1.000000	4.76280e-22	1.000000
rad27	3.31880e-22	1.000000	3.31880e-22	1.000000
rad54	2.12969e-23	1.000000	2.12969e-23	1.000000
rad19syn	1.24223e-23	1.000000	1.24223e-23	1.000000
rad50	3.16459e-24	1.000000	3.16459e-24	1.000000
rad70	1.24601e-24	1.000000	1.24601e-24	1.000000
rad55	1.29195e-26	1.000000	1.29195e-26	1.000000
rad5	3.02431e-27	1.000000	3.02431e-27	1.000000
rad34	1.98730e-27	1.000000	1.98730e-27	1.000000
rad52	1.39303e-27	1.000000	1.39303e-27	1.000000
PhcycC3H3_A+H	8.51758e-28	1.000000	8.51758e-28	1.000000
rad12	1.31995e-28	1.000000	1.31995e-28	1.000000
rad51	4.72520e-29	1.000000	4.72520e-29	1.000000
rad58	3.89966e-29	1.000000	3.89966e-29	1.000000
rad62	1.37506e-29	1.000000	1.37506e-29	1.000000
rad37	1.32079e-29	1.000000	1.32079e-29	1.000000
rad47	9.48020e-32	1.000000	9.48020e-32	1.000000
rad43	1.16192e-32	1.000000	1.16192e-32	1.000000
PAH1+H	6.91710e-33	1.000000	6.91710e-33	1.000000
PAH10+CH3	5.76215e-34	1.000000	5.76215e-34	1.000000

rad65	5.08076e-34	1.00000	5.08076e-34	1.00000
rad42	6.40247e-35	1.00000	6.40247e-35	1.00000
rad41	1.32921e-38	1.00000	1.32921e-38	1.00000

1000000.00 Pa, 210.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.85520e-17	(1.00)	2.85520e-17	(1.00)
Formation of rad11	2.39009e-17	(0.837)	2.39009e-17	(0.837)
Formation of rad6	4.19900e-18	(0.147)	4.19900e-18	(0.147)
H-abstraction	4.52111e-19	(0.0158)	4.52111e-19	(0.0158)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.836443	0.836443	0.836443	0.836443
rad6	0.147683	0.984126	0.147683	0.984126
Benzene+2-propynyl	0.0158346	0.999961	0.0158346	0.999961
rad21	3.20994e-05	0.999993	3.20994e-05	0.999993
rad20	4.62997e-06	0.999997	4.62997e-06	0.999997
rad22	1.96140e-06	0.999999	1.96140e-06	0.999999
rad13	5.59026e-07	1.000000	5.59026e-07	1.000000
rad45	2.60851e-07	1.000000	2.60851e-07	1.000000
rad7	2.15590e-07	1.000000	2.15590e-07	1.000000
rad18	7.16901e-08	1.000000	7.16901e-08	1.000000
rad25	3.41247e-08	1.000000	3.41247e-08	1.000000
rad36	1.88816e-08	1.000000	1.88816e-08	1.000000
PhCHCCH2+H	6.55667e-09	1.000000	6.55667e-09	1.000000
rad24	6.06001e-09	1.000000	6.06001e-09	1.000000
rad33	4.99127e-09	1.000000	4.99127e-09	1.000000
C2H2+PhCH2	1.94696e-09	1.000000	1.94696e-09	1.000000
Indene+H	1.78364e-09	1.000000	1.78364e-09	1.000000
rad9	5.09048e-10	1.000000	5.09048e-10	1.000000
rad23	4.56541e-10	1.000000	4.56541e-10	1.000000
Phenyl+Allene	3.97001e-10	1.000000	0.000000	1.000000
rad3	2.76700e-11	1.000000	2.76700e-11	1.000000
rad4	1.59247e-11	1.000000	1.59247e-11	1.000000
PhCH2CCH+H	6.65195e-12	1.000000	6.65195e-12	1.000000
rad28	2.11990e-12	1.000000	2.11990e-12	1.000000
rad2	7.02969e-15	1.000000	7.02969e-15	1.000000
rad8	2.69204e-15	1.000000	2.69204e-15	1.000000
rad30	1.67895e-15	1.000000	1.67895e-15	1.000000
rad1	6.42659e-16	1.000000	6.42659e-16	1.000000
PhCCH+CH3	4.39601e-16	1.000000	4.39601e-16	1.000000
rad15	3.68692e-16	1.000000	3.68692e-16	1.000000
PAH7+H	2.65847e-16	1.000000	2.65847e-16	1.000000
rad14	1.25121e-17	1.000000	1.25121e-17	1.000000
rad38	6.80147e-18	1.000000	6.80147e-18	1.000000
Ph+MeAc	1.49895e-18	1.000000	1.49895e-18	1.000000
rad60syn	3.06529e-19	1.000000	3.06529e-19	1.000000
rad10	1.78801e-19	1.000000	1.78801e-19	1.000000
rad60anti	1.12944e-19	1.000000	1.12944e-19	1.000000
rad46	1.09471e-19	1.000000	1.09471e-19	1.000000
rad31	5.39355e-20	1.000000	5.39355e-20	1.000000
rad26	3.07231e-20	1.000000	3.07231e-20	1.000000
rad35	8.68803e-21	1.000000	8.68803e-21	1.000000
PAH9+H	7.01238e-21	1.000000	7.01238e-21	1.000000
PAH3+H	5.48643e-21	1.000000	5.48643e-21	1.000000
PhCCCH3+H	1.58975e-21	1.000000	1.58975e-21	1.000000
rad59	1.55576e-21	1.000000	1.55576e-21	1.000000
rad39	1.13811e-21	1.000000	1.13811e-21	1.000000
rad27	7.85211e-22	1.000000	7.85211e-22	1.000000
rad54	8.75253e-23	1.000000	8.75253e-23	1.000000
rad19syn	4.59036e-23	1.000000	4.59036e-23	1.000000
rad50	9.75324e-24	1.000000	9.75324e-24	1.000000
rad70	7.70358e-24	1.000000	7.70358e-24	1.000000
rad55	7.37726e-26	1.000000	7.37726e-26	1.000000
rad34	1.54846e-26	1.000000	1.54846e-26	1.000000
rad5	1.14534e-26	1.000000	1.14534e-26	1.000000
rad52	6.06736e-27	1.000000	6.06736e-27	1.000000
PhcycC3H3_A+H	5.24176e-27	1.000000	5.24176e-27	1.000000
rad12	4.75204e-28	1.000000	4.75204e-28	1.000000
rad58	2.87698e-28	1.000000	2.87698e-28	1.000000
rad51	2.74569e-28	1.000000	2.74569e-28	1.000000
rad62	8.47588e-29	1.000000	8.47588e-29	1.000000
rad37	5.27061e-29	1.000000	5.27061e-29	1.000000
rad47	7.70849e-31	1.000000	7.70849e-31	1.000000
rad43	7.81763e-32	1.000000	7.81763e-32	1.000000
PAH1+H	5.14755e-32	1.000000	5.14755e-32	1.000000
PAH10+CH3	3.73355e-33	1.000000	3.73355e-33	1.000000

rad65	3.65894e-33	1.00000	3.65894e-33	1.00000
rad42	5.58773e-34	1.00000	5.58773e-34	1.00000
rad41	1.24486e-37	1.00000	1.24486e-37	1.00000

1000000.00 Pa, 220.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	4.29529e-17	(1.00)	4.29529e-17	(1.00)
Formation of rad11	3.53712e-17	(0.823)	3.53712e-17	(0.823)
Formation of rad6	6.75433e-18	(0.157)	6.75433e-18	(0.157)
H-abstraction	8.27372e-19	(0.0193)	8.27372e-19	(0.0193)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.822768	0.822768	0.822768	0.822768
rad6	0.157924	0.980693	0.157924	0.980693
Benzene+2-propynyl	0.0192623	0.999955	0.0192623	0.999955
rad21	3.51172e-05	0.999990	3.51172e-05	0.999990
rad20	5.51306e-06	0.999996	5.51306e-06	0.999996
rad22	2.35902e-06	0.999998	2.35902e-06	0.999998
rad13	6.60486e-07	0.999999	6.60486e-07	0.999999
rad45	3.20972e-07	0.999999	3.20972e-07	0.999999
rad7	2.60126e-07	0.999999	2.60126e-07	0.999999
rad18	9.49538e-08	0.999999	9.49538e-08	0.999999
rad25	4.05102e-08	0.999999	4.05102e-08	0.999999
rad36	2.32034e-08	0.999999	2.32034e-08	0.999999
PhCHCCH2+H	8.55690e-09	0.999999	8.55690e-09	0.999999
rad24	6.40968e-09	0.999999	6.40968e-09	0.999999
rad33	5.87595e-09	0.999999	5.87595e-09	0.999999
C2H2+PhCH2	2.88235e-09	0.999999	2.88235e-09	0.999999
Indene+H	2.54719e-09	0.999999	2.54719e-09	0.999999
rad9	6.77940e-10	0.999999	6.77940e-10	0.999999
rad23	6.28503e-10	0.999999	6.28503e-10	0.999999
Phenyl+Allene	6.01850e-10	0.999999	0.00000	0.999999
rad3	3.84773e-11	0.999999	3.84773e-11	0.999999
rad4	2.21415e-11	0.999999	2.21415e-11	0.999999
PhCH2CCH+H	1.22958e-11	0.999999	1.22958e-11	0.999999
rad28	3.09502e-12	0.999999	3.09502e-12	0.999999
rad2	1.19743e-14	0.999999	1.19743e-14	0.999999
rad8	5.25220e-15	0.999999	5.25220e-15	0.999999
rad30	3.02154e-15	0.999999	3.02154e-15	0.999999
rad1	1.09597e-15	0.999999	1.09597e-15	0.999999
PhCCH+CH3	8.78694e-16	0.999999	8.78694e-16	0.999999
rad15	6.84768e-16	0.999999	6.84768e-16	0.999999
PAH7+H	5.87218e-16	0.999999	5.87218e-16	0.999999
rad14	2.34503e-17	0.999999	2.34503e-17	0.999999
rad38	1.17923e-17	0.999999	1.17923e-17	0.999999
Ph+MeAc	3.52423e-18	0.999999	3.52423e-18	0.999999
rad60syn	6.97398e-19	0.999999	6.97398e-19	0.999999
rad10	3.87662e-19	0.999999	3.87662e-19	0.999999
rad60anti	2.63503e-19	0.999999	2.63503e-19	0.999999
rad46	2.10402e-19	0.999999	2.10402e-19	0.999999
rad31	7.83285e-20	0.999999	7.83285e-20	0.999999
rad26	7.21847e-20	0.999999	7.21847e-20	0.999999
rad35	2.11715e-20	0.999999	2.11715e-20	0.999999
PAH3+H	1.70037e-20	0.999999	1.70037e-20	0.999999
PAH9+H	1.42433e-20	0.999999	1.42433e-20	0.999999
rad59	4.68820e-21	0.999999	4.68820e-21	0.999999
PhCCCH3+H	4.20569e-21	0.999999	4.20569e-21	0.999999
rad39	2.69224e-21	0.999999	2.69224e-21	0.999999
rad27	1.85450e-21	0.999999	1.85450e-21	0.999999
rad54	3.24865e-22	0.999999	3.24865e-22	0.999999
rad19syn	1.56552e-22	0.999999	1.56552e-22	0.999999
rad70	4.09793e-23	0.999999	4.09793e-23	0.999999
rad50	2.90450e-23	0.999999	2.90450e-23	0.999999
rad55	3.63420e-25	0.999999	3.63420e-25	0.999999
rad34	9.99754e-26	0.999999	9.99754e-26	0.999999
rad5	4.17093e-26	0.999999	4.17093e-26	0.999999
PhcycC3H3_A+H	2.76675e-26	0.999999	2.76675e-26	0.999999
rad52	2.44740e-26	0.999999	2.44740e-26	0.999999
rad58	1.80120e-27	0.999999	1.80120e-27	0.999999
rad12	1.64077e-27	0.999999	1.64077e-27	0.999999
rad51	1.42127e-27	0.999999	1.42127e-27	0.999999
rad62	4.59615e-28	0.999999	4.59615e-28	0.999999
rad37	1.99777e-28	0.999999	1.99777e-28	0.999999
rad47	5.24733e-30	0.999999	5.24733e-30	0.999999
rad43	4.62515e-31	0.999999	4.62515e-31	0.999999
PAH1+H	3.19122e-31	0.999999	3.19122e-31	0.999999
rad65	2.27624e-32	0.999999	2.27624e-32	0.999999

PAH10+CH3	2.11678e-32	0.999999	2.11678e-32	0.999999
rad42	4.00715e-33	0.999999	4.00715e-33	0.999999
rad41	9.57903e-37	0.999999	9.57903e-37	0.999999

1000000.00 Pa, 230.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	6.25016e-17	(1.00)	6.25016e-17	(1.00)
Formation of rad11	5.06355e-17	(0.810)	5.06355e-17	(0.810)
Formation of rad6	1.04318e-17	(0.167)	1.04318e-17	(0.167)
H-abstraction	1.43428e-18	(0.0229)	1.43428e-18	(0.0229)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.809360	0.809360	0.809360	0.809360
rad6	0.167643	0.977002	0.167643	0.977002
Benzene+2-propynyl	0.0229478	0.999950	0.0229478	0.999950
rad21	3.84331e-05	0.999989	3.84331e-05	0.999989
rad20	6.56427e-06	0.999995	6.56427e-06	0.999995
rad22	2.84018e-06	0.999998	2.84018e-06	0.999998
rad13	7.74357e-07	0.999999	7.74357e-07	0.999999
rad45	3.95483e-07	0.999999	3.95483e-07	0.999999
rad7	3.12011e-07	0.999999	3.12011e-07	0.999999
rad18	1.25861e-07	1.000000	1.25861e-07	1.000000
rad25	4.82421e-08	1.000000	4.82421e-08	1.000000
rad36	2.85746e-08	1.000000	2.85746e-08	1.000000
PhCHCCH2+H	1.12069e-08	1.000000	1.12069e-08	1.000000
rad33	6.85570e-09	1.000000	6.85570e-09	1.000000
rad24	6.79089e-09	1.000000	6.79089e-09	1.000000
C2H2+PhCH2	4.28148e-09	1.000000	4.28148e-09	1.000000
Indene+H	3.65719e-09	1.000000	3.65719e-09	1.000000
Phenyl+Allene	9.07431e-10	1.000000	0.000000	1.000000
rad9	9.04954e-10	1.000000	9.04954e-10	1.000000
rad23	8.67859e-10	1.000000	8.67859e-10	1.000000
rad3	5.32431e-11	1.000000	5.32431e-11	1.000000
rad4	3.06448e-11	1.000000	3.06448e-11	1.000000
PhCH2CCH+H	2.21977e-11	1.000000	2.21977e-11	1.000000
rad28	4.50023e-12	1.000000	4.50023e-12	1.000000
rad2	2.03641e-14	1.000000	2.03641e-14	1.000000
rad8	1.01324e-14	1.000000	1.01324e-14	1.000000
rad30	5.45651e-15	1.000000	5.45651e-15	1.000000
rad1	1.86812e-15	1.000000	1.86812e-15	1.000000
PhCCH+CH3	1.75022e-15	1.000000	1.75022e-15	1.000000
rad15	1.27508e-15	1.000000	1.27508e-15	1.000000
PAH7+H	1.26610e-15	1.000000	1.26610e-15	1.000000
rad14	4.38464e-17	1.000000	4.38464e-17	1.000000
rad38	2.05868e-17	1.000000	2.05868e-17	1.000000
Ph+MeAc	8.17382e-18	1.000000	8.17382e-18	1.000000
rad60syn	1.57122e-18	1.000000	1.57122e-18	1.000000
rad10	8.40682e-19	1.000000	8.40682e-19	1.000000
rad60anti	6.07254e-19	1.000000	6.07254e-19	1.000000
rad46	4.06093e-19	1.000000	4.06093e-19	1.000000
rad26	1.64412e-19	1.000000	1.64412e-19	1.000000
rad31	1.14135e-19	1.000000	1.14135e-19	1.000000
rad35	5.17482e-20	1.000000	5.17482e-20	1.000000
PAH3+H	5.05879e-20	1.000000	5.05879e-20	1.000000
PAH9+H	2.92106e-20	1.000000	2.92106e-20	1.000000
rad59	1.35903e-20	1.000000	1.35903e-20	1.000000
PhCCCH3+H	1.10462e-20	1.000000	1.10462e-20	1.000000
rad39	6.29311e-21	1.000000	6.29311e-21	1.000000
rad27	4.36280e-21	1.000000	4.36280e-21	1.000000
rad54	1.10105e-21	1.000000	1.10105e-21	1.000000
rad19syn	4.96880e-22	1.000000	4.96880e-22	1.000000
rad70	1.90573e-22	1.000000	1.90573e-22	1.000000
rad50	8.37812e-23	1.000000	8.37812e-23	1.000000
rad55	1.56884e-24	1.000000	1.56884e-24	1.000000
rad34	5.46610e-25	1.000000	5.46610e-25	1.000000
rad5	1.45656e-25	1.000000	1.45656e-25	1.000000
PhcycC3H3_A+H	1.27214e-25	1.000000	1.27214e-25	1.000000
rad52	9.20661e-26	1.000000	9.20661e-26	1.000000
rad58	9.72196e-27	1.000000	9.72196e-27	1.000000
rad51	6.61885e-27	1.000000	6.61885e-27	1.000000
rad12	5.42606e-27	1.000000	5.42606e-27	1.000000
rad62	2.21190e-27	1.000000	2.21190e-27	1.000000
rad37	7.17765e-28	1.000000	7.17765e-28	1.000000
rad47	3.05185e-29	1.000000	3.05185e-29	1.000000
rad43	2.42327e-30	1.000000	2.42327e-30	1.000000
PAH1+H	1.68205e-30	1.000000	1.68205e-30	1.000000
rad65	1.23880e-31	1.000000	1.23880e-31	1.000000

PAH10+CH3	1.05794e-31	1.000000	1.05794e-31	1.000000
rad42	2.41803e-32	1.000000	2.41803e-32	1.000000
rad41	6.20157e-36	1.000000	6.20157e-36	1.000000

1000000.00 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83273e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04077e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55481e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.796260	0.796260	0.796260	0.796260
rad6	0.176836	0.973096	0.176836	0.973096
Benzene+2-propynyl	0.0268483	0.999945	0.0268483	0.999945
rad21	4.20803e-05	0.999987	4.20803e-05	0.999987
rad20	7.81558e-06	0.999994	7.81558e-06	0.999994
rad22	3.42348e-06	0.999998	3.42348e-06	0.999998
rad13	9.01766e-07	0.999999	9.01766e-07	0.999999
rad45	4.88000e-07	0.999999	4.88000e-07	0.999999
rad7	3.72461e-07	1.000000	3.72461e-07	1.000000
rad18	1.66934e-07	1.000000	1.66934e-07	1.000000
rad25	5.76203e-08	1.000000	5.76203e-08	1.000000
rad36	3.52675e-08	1.000000	3.52675e-08	1.000000
PhCHCCH2+H	1.47208e-08	1.000000	1.47208e-08	1.000000
rad33	7.93434e-09	1.000000	7.93434e-09	1.000000
rad24	7.20722e-09	1.000000	7.20722e-09	1.000000
C2H2+PhCH2	6.37598e-09	1.000000	6.37598e-09	1.000000
Indene+H	5.27764e-09	1.000000	5.27764e-09	1.000000
Phenyl+Allene	1.36053e-09	1.000000	0.000000	1.000000
rad9	1.21003e-09	1.000000	1.21003e-09	1.000000
rad23	1.20211e-09	1.000000	1.20211e-09	1.000000
rad3	7.33731e-11	1.000000	7.33731e-11	1.000000
rad4	4.22546e-11	1.000000	4.22546e-11	1.000000
PhCH2CCH+H	3.92282e-11	1.000000	3.92282e-11	1.000000
rad28	6.52016e-12	1.000000	6.52016e-12	1.000000
rad2	3.45785e-14	1.000000	3.45785e-14	1.000000
rad8	1.93201e-14	1.000000	1.93201e-14	1.000000
rad30	9.86961e-15	1.000000	9.86961e-15	1.000000
PhCCH+CH3	3.47027e-15	1.000000	3.47027e-15	1.000000
rad1	3.18308e-15	1.000000	3.18308e-15	1.000000
PAH7+H	2.66829e-15	1.000000	2.66829e-15	1.000000
rad15	2.37557e-15	1.000000	2.37557e-15	1.000000
rad14	8.17290e-17	1.000000	8.17290e-17	1.000000
rad38	3.61498e-17	1.000000	3.61498e-17	1.000000
Ph+MeAc	1.86790e-17	1.000000	1.86790e-17	1.000000
rad60syn	3.49888e-18	1.000000	3.49888e-18	1.000000
rad10	1.82058e-18	1.000000	1.82058e-18	1.000000
rad60anti	1.38015e-18	1.000000	1.38015e-18	1.000000
rad46	7.85939e-19	1.000000	7.85939e-19	1.000000
rad26	3.63885e-19	1.000000	3.63885e-19	1.000000
rad31	1.67061e-19	1.000000	1.67061e-19	1.000000
PAH3+H	1.44592e-19	1.000000	1.44592e-19	1.000000
rad35	1.25800e-19	1.000000	1.25800e-19	1.000000
PAH9+H	6.03544e-20	1.000000	6.03544e-20	1.000000
rad59	3.79300e-20	1.000000	3.79300e-20	1.000000
PhCCCH3+H	2.86964e-20	1.000000	2.86964e-20	1.000000
rad39	1.45020e-20	1.000000	1.45020e-20	1.000000
rad27	1.01956e-20	1.000000	1.01956e-20	1.000000
rad54	3.43666e-21	1.000000	3.43666e-21	1.000000
rad19syn	1.47633e-21	1.000000	1.47633e-21	1.000000
rad70	7.85199e-22	1.000000	7.85199e-22	1.000000
rad50	2.34401e-22	1.000000	2.34401e-22	1.000000
rad55	6.01325e-24	1.000000	6.01325e-24	1.000000
rad34	2.57823e-24	1.000000	2.57823e-24	1.000000
PhcycC3H3_A+H	5.16382e-25	1.000000	5.16382e-25	1.000000
rad5	4.86051e-25	1.000000	4.86051e-25	1.000000
rad52	3.24550e-25	1.000000	3.24550e-25	1.000000
rad58	4.58774e-26	1.000000	4.58774e-26	1.000000
rad51	2.79625e-26	1.000000	2.79625e-26	1.000000
rad12	1.71453e-26	1.000000	1.71453e-26	1.000000
rad62	9.52608e-27	1.000000	9.52608e-27	1.000000
rad37	2.43763e-27	1.000000	2.43763e-27	1.000000
rad47	1.54387e-28	1.000000	1.54387e-28	1.000000
rad43	1.13306e-29	1.000000	1.13306e-29	1.000000
PAH1+H	7.67203e-30	1.000000	7.67203e-30	1.000000
rad65	5.96698e-31	1.000000	5.96698e-31	1.000000

PAH10+CH3	4.69694e-31	1.000000	4.69694e-31	1.000000
rad42	1.25302e-31	1.000000	1.25302e-31	1.000000
rad41	3.44756e-35	1.000000	3.44756e-35	1.000000

1000000.00 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.21641e-16 (1.00)	1.21641e-16 (1.00)
Formation of rad11	9.54219e-17 (0.784)	9.54219e-17 (0.784)
Formation of rad6	2.24583e-17 (0.185)	2.24583e-17 (0.185)
H-abstraction	3.76121e-18 (0.0309)	3.76121e-18 (0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.783506	0.783506	0.783506	0.783506
rad6	0.185512	0.969018	0.185512	0.969018
Benzene+2-propynyl	0.0309205	0.999938	0.0309205	0.999938
rad21	4.60943e-05	0.999984	4.60943e-05	0.999984
rad20	9.30418e-06	0.999993	9.30418e-06	0.999993
rad22	4.13144e-06	0.999998	4.13144e-06	0.999998
rad13	1.04390e-06	0.999999	1.04390e-06	0.999999
rad45	6.03024e-07	0.999999	6.03024e-07	0.999999
rad7	4.42919e-07	1.000000	4.42919e-07	1.000000
rad18	2.21494e-07	1.000000	2.21494e-07	1.000000
rad25	6.90082e-08	1.000000	6.90082e-08	1.000000
rad36	4.36253e-08	1.000000	4.36253e-08	1.000000
PhCHCCH2+H	1.93814e-08	1.000000	1.93814e-08	1.000000
C2H2+PhCH2	9.51046e-09	1.000000	9.51046e-09	1.000000
rad33	9.11478e-09	1.000000	9.11478e-09	1.000000
rad24	7.66235e-09	1.000000	7.66235e-09	1.000000
Indene+H	7.65065e-09	1.000000	7.65065e-09	1.000000
Phenyl+Allene	2.02824e-09	1.000000	0.000000	1.000000
rad23	1.67016e-09	1.000000	1.67016e-09	1.000000
rad9	1.61971e-09	1.000000	1.61971e-09	1.000000
rad3	1.00751e-10	1.000000	1.00751e-10	1.000000
PhCH2CCH+H	6.79889e-11	1.000000	6.79889e-11	1.000000
rad4	5.80762e-11	1.000000	5.80762e-11	1.000000
rad28	9.41537e-12	1.000000	9.41537e-12	1.000000
rad2	5.86058e-14	1.000000	5.86058e-14	1.000000
rad8	3.63924e-14	1.000000	3.63924e-14	1.000000
rad30	1.78462e-14	1.000000	1.78462e-14	1.000000
PhCCH+CH3	6.83953e-15	1.000000	6.83953e-15	1.000000
PAH7+H	5.50136e-15	1.000000	5.50136e-15	1.000000
rad1	5.42011e-15	1.000000	5.42011e-15	1.000000
rad15	4.41908e-15	1.000000	4.41908e-15	1.000000
rad14	1.51707e-16	1.000000	1.51707e-16	1.000000
rad38	6.37763e-17	1.000000	6.37763e-17	1.000000
Ph+MeAc	4.19866e-17	1.000000	4.19866e-17	1.000000
rad60syn	7.68575e-18	1.000000	7.68575e-18	1.000000
rad10	3.92828e-18	1.000000	3.92828e-18	1.000000
rad60anti	3.08793e-18	1.000000	3.08793e-18	1.000000
rad46	1.52301e-18	1.000000	1.52301e-18	1.000000
rad26	7.83898e-19	1.000000	7.83898e-19	1.000000
PAH3+H	3.96974e-19	1.000000	3.96974e-19	1.000000
rad35	3.02051e-19	1.000000	3.02051e-19	1.000000
rad31	2.45859e-19	1.000000	2.45859e-19	1.000000
PAH9+H	1.25325e-19	1.000000	1.25325e-19	1.000000
rad59	1.01912e-19	1.000000	1.01912e-19	1.000000
PhCCCH3+H	7.34107e-20	1.000000	7.34107e-20	1.000000
rad39	3.28514e-20	1.000000	3.28514e-20	1.000000
rad27	2.35900e-20	1.000000	2.35900e-20	1.000000
rad54	9.94421e-21	1.000000	9.94421e-21	1.000000
rad19syn	4.12308e-21	1.000000	4.12308e-21	1.000000
rad70	2.89906e-21	1.000000	2.89906e-21	1.000000
rad50	6.36298e-22	1.000000	6.36298e-22	1.000000
rad55	2.06958e-23	1.000000	2.06958e-23	1.000000
rad34	1.06601e-23	1.000000	1.06601e-23	1.000000
PhcycC3H3_A+H	1.87215e-24	1.000000	1.87215e-24	1.000000
rad5	1.54455e-24	1.000000	1.54455e-24	1.000000
rad52	1.07578e-24	1.000000	1.07578e-24	1.000000
rad58	1.91663e-25	1.000000	1.91663e-25	1.000000
rad51	1.07950e-25	1.000000	1.07950e-25	1.000000
rad12	5.16171e-26	1.000000	5.16171e-26	1.000000
rad62	3.70130e-26	1.000000	3.70130e-26	1.000000
rad37	7.80472e-27	1.000000	7.80472e-27	1.000000
rad47	6.90062e-28	1.000000	6.90062e-28	1.000000
rad43	4.76636e-29	1.000000	4.76636e-29	1.000000
PAH1+H	3.07483e-29	1.000000	3.07483e-29	1.000000
rad65	2.57138e-30	1.000000	2.57138e-30	1.000000

PAH10+CH3	1.86715e-30	1.000000	1.86715e-30	1.000000
rad42	5.67454e-31	1.000000	5.67454e-31	1.000000
rad41	1.67475e-34	1.000000	1.67475e-34	1.000000

1000000.00 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.63720e-16 (1.00)	1.63720e-16 (1.00)
Formation of rad11	1.26419e-16 (0.772)	1.26419e-16 (0.772)
Formation of rad6	3.15515e-17 (0.193)	3.15515e-17 (0.193)
H-abstraction	5.75028e-18 (0.0351)	5.75028e-18 (0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.771120	0.771120	0.771120	0.771120
rad6	0.193688	0.964808	0.193688	0.964808
Benzene+2-propynyl	0.0351226	0.999931	0.0351226	0.999931
rad21	5.05118e-05	0.999981	5.05118e-05	0.999981
rad20	1.10729e-05	0.999992	1.10729e-05	0.999992
rad22	4.99141e-06	0.999997	4.99141e-06	0.999997
rad13	1.20199e-06	0.999998	1.20199e-06	0.999998
rad45	7.46149e-07	0.999999	7.46149e-07	0.999999
rad7	5.25083e-07	1.000000	5.25083e-07	1.000000
rad18	2.93879e-07	1.000000	2.93879e-07	1.000000
rad25	8.28445e-08	1.000000	8.28445e-08	1.000000
rad36	5.40795e-08	1.000000	5.40795e-08	1.000000
PhCHCCH2+H	2.55613e-08	1.000000	2.55613e-08	1.000000
C2H2+PhCH2	1.41944e-08	1.000000	1.41944e-08	1.000000
Indene+H	1.11329e-08	1.000000	1.11329e-08	1.000000
rad33	1.03989e-08	1.000000	1.03989e-08	1.000000
rad24	8.16006e-09	1.000000	8.16006e-09	1.000000
Phenyl+Allene	3.00592e-09	1.000000	0.000000	1.000000
rad23	2.32708e-09	1.000000	2.32708e-09	1.000000
rad9	2.16917e-09	1.000000	2.16917e-09	1.000000
rad3	1.37889e-10	1.000000	1.37889e-10	1.000000
PhCH2CCH+H	1.15733e-10	1.000000	1.15733e-10	1.000000
rad4	7.95896e-11	1.000000	7.95896e-11	1.000000
rad28	1.35512e-11	1.000000	1.35512e-11	1.000000
rad2	9.90794e-14	1.000000	9.90794e-14	1.000000
rad8	6.76798e-14	1.000000	6.76798e-14	1.000000
rad30	3.21940e-14	1.000000	3.21940e-14	1.000000
PhCCH+CH3	1.33750e-14	1.000000	1.33750e-14	1.000000
PAH7+H	1.11005e-14	1.000000	1.11005e-14	1.000000
rad1	9.21782e-15	1.000000	9.21782e-15	1.000000
rad15	8.19021e-15	1.000000	8.19021e-15	1.000000
rad14	2.80033e-16	1.000000	2.80033e-16	1.000000
rad38	1.12909e-16	1.000000	1.12909e-16	1.000000
Ph+MeAc	9.26337e-17	1.000000	9.26337e-17	1.000000
rad60syn	1.66167e-17	1.000000	1.66167e-17	1.000000
rad10	8.42064e-18	1.000000	8.42064e-18	1.000000
rad60anti	6.78717e-18	1.000000	6.78717e-18	1.000000
rad46	2.95047e-18	1.000000	2.95047e-18	1.000000
rad26	1.64524e-18	1.000000	1.64524e-18	1.000000
PAH3+H	1.04600e-18	1.000000	1.04600e-18	1.000000
rad35	7.12148e-19	1.000000	7.12148e-19	1.000000
rad31	3.64051e-19	1.000000	3.64051e-19	1.000000
rad59	2.63402e-19	1.000000	2.63402e-19	1.000000
PAH9+H	2.60784e-19	1.000000	2.60784e-19	1.000000
PhCCCH3+H	1.84045e-19	1.000000	1.84045e-19	1.000000
rad39	7.29104e-20	1.000000	7.29104e-20	1.000000
rad27	5.38362e-20	1.000000	5.38362e-20	1.000000
rad54	2.68179e-20	1.000000	2.68179e-20	1.000000
rad19syn	1.08547e-20	1.000000	1.08547e-20	1.000000
rad70	9.68698e-21	1.000000	9.68698e-21	1.000000
rad50	1.67513e-21	1.000000	1.67513e-21	1.000000
rad55	6.45888e-23	1.000000	6.45888e-23	1.000000
rad34	3.91733e-23	1.000000	3.91733e-23	1.000000
PhcycC3H3_A+H	6.12541e-24	1.000000	6.12541e-24	1.000000
rad5	4.66180e-24	1.000000	4.66180e-24	1.000000
rad52	3.36162e-24	1.000000	3.36162e-24	1.000000
rad58	7.16881e-25	1.000000	7.16881e-25	1.000000
rad51	3.83366e-25	1.000000	3.83366e-25	1.000000
rad12	1.47671e-25	1.000000	1.47671e-25	1.000000
rad62	1.30769e-25	1.000000	1.30769e-25	1.000000
rad37	2.35153e-26	1.000000	2.35153e-26	1.000000
rad47	2.76278e-27	1.000000	2.76278e-27	1.000000
rad43	1.81862e-28	1.000000	1.81862e-28	1.000000
PAH1+H	1.09743e-28	1.000000	1.09743e-28	1.000000
rad65	1.00139e-29	1.000000	1.00139e-29	1.000000

PAH10+CH3	6.69926e-30	1.00000	6.69926e-30	1.00000
rad42	2.27992e-30	1.00000	2.27992e-30	1.00000
rad41	7.21684e-34	1.00000	7.21684e-34	1.00000

1000000.00 Pa, 270.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.15887e-16	(1.00)	2.15887e-16	(1.00)
Formation of rad11	1.64133e-16	(0.760)	1.64133e-16	(0.760)
Formation of rad6	4.32452e-17	(0.200)	4.32452e-17	(0.200)
H-abstraction	8.50919e-18	(0.0394)	8.50919e-18	(0.0394)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.759125	0.759125	0.759125	0.759125
rad6	0.201382	0.960507	0.201382	0.960507
Benzene+2-propynyl	0.0394150	0.999922	0.0394150	0.999922
rad21	5.53721e-05	0.999978	5.53721e-05	0.999978
rad20	1.31709e-05	0.999991	1.31709e-05	0.999991
rad22	6.03640e-06	0.999997	6.03640e-06	0.999997
rad13	1.37726e-06	0.999998	1.37726e-06	0.999998
rad45	9.24303e-07	0.999999	9.24303e-07	0.999999
rad7	6.20950e-07	1.000000	6.20950e-07	1.000000
rad18	3.89729e-07	1.000000	3.89729e-07	1.000000
rad25	9.96568e-08	1.000000	9.96568e-08	1.000000
rad36	6.71710e-08	1.000000	6.71710e-08	1.000000
PhCHCCH2+H	3.37489e-08	1.000000	3.37489e-08	1.000000
C2H2+PhCH2	2.11756e-08	1.000000	2.11756e-08	1.000000
Indene+H	1.62469e-08	1.000000	1.62469e-08	1.000000
rad33	1.17870e-08	1.000000	1.17870e-08	1.000000
rad24	8.70431e-09	1.000000	8.70431e-09	1.000000
Phenyl+Allene	4.42804e-09	1.000000	0.000000	1.000000
rad23	3.25066e-09	1.000000	3.25066e-09	1.000000
rad9	2.90481e-09	1.000000	2.90481e-09	1.000000
PhCH2CCH+H	1.93707e-10	1.000000	1.93707e-10	1.000000
rad3	1.88107e-10	1.000000	1.88107e-10	1.000000
rad4	1.08766e-10	1.000000	1.08766e-10	1.000000
rad28	1.94358e-11	1.000000	1.94358e-11	1.000000
rad2	1.66919e-13	1.000000	1.66919e-13	1.000000
rad8	1.24170e-13	1.000000	1.24170e-13	1.000000
rad30	5.78191e-14	1.000000	5.78191e-14	1.000000
PhCCH+CH3	2.58949e-14	1.000000	2.58949e-14	1.000000
PAH7+H	2.19188e-14	1.000000	2.19188e-14	1.000000
rad1	1.56424e-14	1.000000	1.56424e-14	1.000000
rad15	1.50897e-14	1.000000	1.50897e-14	1.000000
rad14	5.13114e-16	1.000000	5.13114e-16	1.000000
rad38	2.00328e-16	1.000000	2.00328e-16	1.000000
Ph+MeAc	2.00108e-16	1.000000	2.00108e-16	1.000000
rad60syn	3.52742e-17	1.000000	3.52742e-17	1.000000
rad10	1.78712e-17	1.000000	1.78712e-17	1.000000
rad60anti	1.46212e-17	1.000000	1.46212e-17	1.000000
rad46	5.70443e-18	1.000000	5.70443e-18	1.000000
rad26	3.36520e-18	1.000000	3.36520e-18	1.000000
PAH3+H	2.64240e-18	1.000000	2.64240e-18	1.000000
rad35	1.64068e-18	1.000000	1.64068e-18	1.000000
rad59	6.54159e-19	1.000000	6.54159e-19	1.000000
rad31	5.42668e-19	1.000000	5.42668e-19	1.000000
PAH9+H	5.41990e-19	1.000000	5.41990e-19	1.000000
PhCCCH3+H	4.50104e-19	1.000000	4.50104e-19	1.000000
rad39	1.57982e-19	1.000000	1.57982e-19	1.000000
rad27	1.20713e-19	1.000000	1.20713e-19	1.000000
rad54	6.77080e-20	1.000000	6.77080e-20	1.000000
rad70	2.95500e-20	1.000000	2.95500e-20	1.000000
rad19syn	2.69982e-20	1.000000	2.69982e-20	1.000000
rad50	4.27292e-21	1.000000	4.27292e-21	1.000000
rad55	1.84374e-22	1.000000	1.84374e-22	1.000000
rad34	1.29484e-22	1.000000	1.29484e-22	1.000000
PhcycC3H3_A+H	1.82540e-23	1.000000	1.82540e-23	1.000000
rad5	1.33450e-23	1.000000	1.33450e-23	1.000000
rad52	9.92534e-24	1.000000	9.92534e-24	1.000000
rad58	2.42498e-24	1.000000	2.42498e-24	1.000000
rad51	1.26022e-24	1.000000	1.26022e-24	1.000000
rad62	4.23291e-25	1.000000	4.23291e-25	1.000000
rad12	4.00714e-25	1.000000	4.00714e-25	1.000000
rad37	6.66240e-26	1.000000	6.66240e-26	1.000000
rad47	1.00268e-26	1.000000	1.00268e-26	1.000000
rad43	6.34368e-28	1.000000	6.34368e-28	1.000000
PAH1+H	3.52901e-28	1.000000	3.52901e-28	1.000000
rad65	3.55704e-29	1.000000	3.55704e-29	1.000000

PAH10+CH3	2.18646e-29	1.00000	2.18646e-29	1.00000
rad42	8.23322e-30	1.00000	8.23322e-30	1.00000
rad41	2.79457e-33	1.00000	2.79457e-33	1.00000

1000000.00 Pa, 280.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.79491e-16	(1.00)	2.79491e-16	(1.00)
Formation of rad11	2.09281e-16	(0.749)	2.09281e-16	(0.749)
Formation of rad6	5.79792e-17	(0.207)	5.79792e-17	(0.207)
H-abstraction	1.22310e-17	(0.0438)	1.22310e-17	(0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.747530	0.747530	0.747530	0.747530
rad6	0.208621	0.956150	0.208621	0.956150
Benzene+2-propynyl	0.0437616	0.999912	0.0437616	0.999912
rad21	6.07154e-05	0.999973	6.07154e-05	0.999973
rad20	1.56533e-05	0.999988	1.56533e-05	0.999988
rad22	7.30616e-06	0.999996	7.30616e-06	0.999996
rad13	1.57092e-06	0.999997	1.57092e-06	0.999997
rad45	1.14602e-06	0.999998	1.14602e-06	0.999998
rad7	7.32854e-07	0.999999	7.32854e-07	0.999999
rad18	5.16305e-07	1.000000	5.16305e-07	1.000000
rad25	1.20077e-07	1.000000	1.20077e-07	1.000000
rad36	8.35776e-08	1.000000	8.35776e-08	1.000000
PhCHCCH2+H	4.45813e-08	1.000000	4.45813e-08	1.000000
C2H2+PhCH2	3.15408e-08	1.000000	3.15408e-08	1.000000
Indene+H	2.37542e-08	1.000000	2.37542e-08	1.000000
rad33	1.32781e-08	1.000000	1.32781e-08	1.000000
rad24	9.29924e-09	1.000000	9.29924e-09	1.000000
Phenyl+Allene	6.48222e-09	1.000000	0.000000	1.000000
rad23	4.55065e-09	1.000000	4.55065e-09	1.000000
rad9	3.88748e-09	1.000000	3.88748e-09	1.000000
PhCH2CCH+H	3.19023e-10	1.000000	3.19023e-10	1.000000
rad3	2.55758e-10	1.000000	2.55758e-10	1.000000
rad4	1.48211e-10	1.000000	1.48211e-10	1.000000
rad28	2.77681e-11	1.000000	2.77681e-11	1.000000
rad2	2.79859e-13	1.000000	2.79859e-13	1.000000
rad8	2.24524e-13	1.000000	2.24524e-13	1.000000
rad30	1.03149e-13	1.000000	1.03149e-13	1.000000
PhCCH+CH3	4.95132e-14	1.000000	4.95132e-14	1.000000
PAH7+H	4.23325e-14	1.000000	4.23325e-14	1.000000
rad15	2.75720e-14	1.000000	2.75720e-14	1.000000
rad1	2.64537e-14	1.000000	2.64537e-14	1.000000
rad14	9.31388e-16	1.000000	9.31388e-16	1.000000
Ph+MeAc	4.22201e-16	1.000000	4.22201e-16	1.000000
rad38	3.55668e-16	1.000000	3.55668e-16	1.000000
rad60syn	7.33375e-17	1.000000	7.33375e-17	1.000000
rad10	3.74145e-17	1.000000	3.74145e-17	1.000000
rad60anti	3.07958e-17	1.000000	3.07958e-17	1.000000
rad46	1.09854e-17	1.000000	1.09854e-17	1.000000
rad26	6.70687e-18	1.000000	6.70687e-18	1.000000
PAH3+H	6.39353e-18	1.000000	6.39353e-18	1.000000
rad35	3.67871e-18	1.000000	3.67871e-18	1.000000
rad59	1.55941e-18	1.000000	1.55941e-18	1.000000
PAH9+H	1.12091e-18	1.000000	1.12091e-18	1.000000
PhCCCH3+H	1.06953e-18	1.000000	1.06953e-18	1.000000
rad31	8.14647e-19	1.000000	8.14647e-19	1.000000
rad39	3.33084e-19	1.000000	3.33084e-19	1.000000
rad27	2.64934e-19	1.000000	2.64934e-19	1.000000
rad54	1.60668e-19	1.000000	1.60668e-19	1.000000
rad70	8.29348e-20	1.000000	8.29348e-20	1.000000
rad19syn	6.35679e-20	1.000000	6.35679e-20	1.000000
rad50	1.05494e-20	1.000000	1.05494e-20	1.000000
rad55	4.85133e-22	1.000000	4.85133e-22	1.000000
rad34	3.89027e-22	1.000000	3.89027e-22	1.000000
PhcycC3H3_A+H	4.99577e-23	1.000000	4.99577e-23	1.000000
rad5	3.62251e-23	1.000000	3.62251e-23	1.000000
rad52	2.77501e-23	1.000000	2.77501e-23	1.000000
rad58	7.48606e-24	1.000000	7.48606e-24	1.000000
rad51	3.85680e-24	1.000000	3.85680e-24	1.000000
rad62	1.26432e-24	1.000000	1.26432e-24	1.000000
rad12	1.03047e-24	1.000000	1.03047e-24	1.000000
rad37	1.77572e-25	1.000000	1.77572e-25	1.000000
rad47	3.33268e-26	1.000000	3.33268e-26	1.000000
rad43	2.03807e-27	1.000000	2.03807e-27	1.000000
PAH1+H	1.03300e-27	1.000000	1.03300e-27	1.000000
rad65	1.16221e-28	1.000000	1.16221e-28	1.000000

PAH10+CH3	6.53984e-29	1.00000	6.53984e-29	1.00000
rad42	2.70246e-29	1.00000	2.70246e-29	1.00000
rad41	9.83290e-33	1.00000	9.83290e-33	1.00000

1000000.00 Pa, 290.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.55893e-16	(1.00)	3.55893e-16	(1.00)
Formation of rad11	2.62555e-16	(0.738)	2.62555e-16	(0.738)
Formation of rad6	7.62093e-17	(0.214)	7.62093e-17	(0.214)
H-abstraction	1.71289e-17	(0.0481)	1.71289e-17	(0.0481)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.736340	0.736340	0.736340	0.736340
rad6	0.215431	0.951772	0.215431	0.951772
Benzene+2-propynyl	0.0481294	0.999901	0.0481294	0.999901
rad21	6.65843e-05	0.999968	6.65843e-05	0.999968
rad20	1.85825e-05	0.999986	1.85825e-05	0.999986
rad22	8.84829e-06	0.999995	8.84829e-06	0.999995
rad13	1.78409e-06	0.999997	1.78409e-06	0.999997
rad45	1.42179e-06	0.999998	1.42179e-06	0.999998
rad7	8.63515e-07	0.999999	8.63515e-07	0.999999
rad18	6.82877e-07	1.000000	6.82877e-07	1.000000
rad25	1.44853e-07	1.000000	1.44853e-07	1.000000
rad36	1.04144e-07	1.000000	1.04144e-07	1.000000
PhCHCCH2+H	5.88841e-08	1.000000	5.88841e-08	1.000000
C2H2+PhCH2	4.68520e-08	1.000000	4.68520e-08	1.000000
Indene+H	3.47536e-08	1.000000	3.47536e-08	1.000000
rad33	1.48693e-08	1.000000	1.48693e-08	1.000000
rad24	9.94924e-09	1.000000	9.94924e-09	1.000000
Phenyl+Allene	9.42734e-09	1.000000	0.000000	1.000000
rad23	6.38135e-09	1.000000	6.38135e-09	1.000000
rad9	5.19644e-09	1.000000	5.19644e-09	1.000000
PhCH2CCH+H	5.17226e-10	1.000000	5.17226e-10	1.000000
rad3	3.46492e-10	1.000000	3.46492e-10	1.000000
rad4	2.01329e-10	1.000000	2.01329e-10	1.000000
rad28	3.94981e-11	1.000000	3.94981e-11	1.000000
rad2	4.66215e-13	1.000000	4.66215e-13	1.000000
rad8	3.99660e-13	1.000000	3.99660e-13	1.000000
rad30	1.82370e-13	1.000000	1.82371e-13	1.000000
PhCCH+CH3	9.32611e-14	1.000000	9.32611e-14	1.000000
PAH7+H	7.99033e-14	1.000000	7.99033e-14	1.000000
rad15	4.98417e-14	1.000000	4.98417e-14	1.000000
rad1	4.45147e-14	1.000000	4.45147e-14	1.000000
rad14	1.67105e-15	1.000000	1.67105e-15	1.000000
Ph+MeAc	8.68054e-16	1.000000	8.68054e-16	1.000000
rad38	6.30797e-16	1.000000	6.30797e-16	1.000000
rad60syn	1.48965e-16	1.000000	1.48965e-16	1.000000
rad10	7.69946e-17	1.000000	7.69946e-17	1.000000
rad60anti	6.32700e-17	1.000000	6.32700e-17	1.000000
rad46	2.10255e-17	1.000000	2.10255e-17	1.000000
PAH3+H	1.48086e-17	1.000000	1.48086e-17	1.000000
rad26	1.30175e-17	1.000000	1.30175e-17	1.000000
rad35	8.00229e-18	1.000000	8.00229e-18	1.000000
rad59	3.56562e-18	1.000000	3.56562e-18	1.000000
PhCCCH3+H	2.46177e-18	1.000000	2.46177e-18	1.000000
PAH9+H	2.29801e-18	1.000000	2.29801e-18	1.000000
rad31	1.23188e-18	1.000000	1.23188e-18	1.000000
rad39	6.81375e-19	1.000000	6.81375e-19	1.000000
rad27	5.67319e-19	1.000000	5.67319e-19	1.000000
rad54	3.59643e-19	1.000000	3.59643e-19	1.000000
rad70	2.15651e-19	1.000000	2.15651e-19	1.000000
rad19syn	1.41967e-19	1.000000	1.41967e-19	1.000000
rad50	2.51861e-20	1.000000	2.51861e-20	1.000000
rad55	1.18482e-21	1.000000	1.18482e-21	1.000000
rad34	1.07219e-21	1.000000	1.07219e-21	1.000000
PhcycC3H3_A+H	1.26500e-22	1.000000	1.26500e-22	1.000000
rad5	9.33197e-23	1.000000	9.33197e-23	1.000000
rad52	7.36352e-23	1.000000	7.36352e-23	1.000000
rad58	2.12624e-23	1.000000	2.12624e-23	1.000000
rad51	1.10470e-23	1.000000	1.10470e-23	1.000000
rad62	3.50779e-24	1.000000	3.50779e-24	1.000000
rad12	2.51159e-24	1.000000	2.51159e-24	1.000000
rad37	4.45838e-25	1.000000	4.45838e-25	1.000000
rad47	1.02343e-25	1.000000	1.02343e-25	1.000000
rad43	6.07225e-27	1.000000	6.07225e-27	1.000000
PAH1+H	2.77731e-27	1.000000	2.77731e-27	1.000000
rad65	3.51950e-28	1.000000	3.51950e-28	1.000000

PAH10+CH3	1.80529e-28	1.00000	1.80529e-28	1.00000
rad42	8.14159e-29	1.00000	8.14159e-29	1.00000
rad41	3.17389e-32	1.00000	3.17389e-32	1.00000

1000000.00 Pa, 300.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	6.34395e-16	(1.00)	6.34395e-16	(1.00)
Formation of rad11	4.51153e-16	(0.711)	4.51153e-16	(0.711)
Formation of rad6	1.51589e-16	(0.239)	1.51589e-16	(0.239)
H-abstraction	3.16530e-17	(0.0499)	3.16530e-17	(0.0499)

species	PYtrue	Cumul	PYeffective	Cumul

rad11	0.708217	0.708217	0.708217	0.708217
rad6	0.241667	0.949884	0.241667	0.949884
Benzene+2-propynyl	0.0498949	0.999779	0.0498949	0.999779
rad21	0.000121028	0.999900	0.000121028	0.999900
rad20	5.06046e-05	0.999950	5.06046e-05	0.999950
rad22	3.29996e-05	0.999983	3.29996e-05	0.999983
rad45	6.12933e-06	0.999989	6.12933e-06	0.999989
rad18	4.10900e-06	0.999993	4.10900e-06	0.999993
rad13	2.60793e-06	0.999996	2.60793e-06	0.999996
rad7	1.62907e-06	0.999998	1.62907e-06	0.999998
C2H2+PhCH2	7.88965e-07	0.999999	7.88965e-07	0.999999
Indene+H	5.32876e-07	0.999999	5.32876e-07	0.999999
rad25	4.19714e-07	0.999999	4.19714e-07	0.999999
PhCHCCH2+H	2.60411e-07	1.000000	2.60411e-07	1.000000
rad36	2.33652e-07	1.000000	2.33652e-07	1.000000
rad23	7.54389e-08	1.000000	7.54389e-08	1.000000
Phenyl+Allene	4.16946e-08	1.000000	0.000000	1.000000
rad9	2.53762e-08	1.000000	2.53762e-08	1.000000
rad33	1.88173e-08	1.000000	1.88173e-08	1.000000
rad24	1.73636e-08	1.000000	1.73636e-08	1.000000
PhCH2CCH+H	5.93501e-09	1.000000	5.93501e-09	1.000000
rad3	1.29513e-09	1.000000	1.29513e-09	1.000000
rad4	7.29461e-10	1.000000	7.29461e-10	1.000000
rad28	1.87863e-10	1.000000	1.87863e-10	1.000000
rad15	2.82943e-11	1.000000	2.82943e-11	1.000000
rad30	1.06224e-11	1.000000	1.06224e-11	1.000000
rad2	7.90321e-12	1.000000	7.90321e-12	1.000000
PhCCH+CH3	4.79499e-12	1.000000	4.79499e-12	1.000000
PAH7+H	3.24067e-12	1.000000	3.24067e-12	1.000000
rad1	7.25420e-13	1.000000	7.25420e-13	1.000000
Ph+MeAc	1.03769e-13	1.000000	1.03769e-13	1.000000
rad38	9.90076e-14	1.000000	9.90076e-14	1.000000
rad14	4.45194e-14	1.000000	4.45194e-14	1.000000
rad19anti	2.61366e-14	1.000000	2.61366e-14	1.000000
rad60syn	2.45518e-14	1.000000	2.45518e-14	1.000000
rad12	1.57945e-14	1.000000	1.57945e-14	1.000000
rad10	1.26679e-14	1.000000	1.26679e-14	1.000000
rad60anti	1.16892e-14	1.000000	1.16892e-14	1.000000
PAH3+H	9.58257e-15	1.000000	9.58257e-15	1.000000
rad46	8.65937e-15	1.000000	8.65937e-15	1.000000
PAH9+H	5.97620e-15	1.000000	5.97620e-15	1.000000
rad35	3.67528e-15	1.000000	3.67528e-15	1.000000
PhCCCH3+H	2.27043e-15	1.000000	2.27043e-15	1.000000
rad59	1.76578e-15	1.000000	1.76578e-15	1.000000
rad26	7.62388e-16	1.000000	7.62388e-16	1.000000
rad50	2.62914e-16	1.000000	2.62914e-16	1.000000
rad70	2.31170e-16	1.000000	2.31170e-16	1.000000
rad27	8.57841e-17	1.000000	8.57841e-17	1.000000
rad39	5.55314e-17	1.000000	5.55314e-17	1.000000
rad54	1.75848e-17	1.000000	1.75848e-17	1.000000
rad19syn	1.60763e-17	1.000000	1.60763e-17	1.000000
rad31	1.04718e-17	1.000000	1.04718e-17	1.000000
rad51	7.26367e-18	1.000000	7.26367e-18	1.000000
rad34	6.62667e-18	1.000000	6.62667e-18	1.000000
rad52	6.60398e-18	1.000000	6.60398e-18	1.000000
rad5	7.49766e-19	1.000000	7.49766e-19	1.000000
rad58	3.99404e-19	1.000000	3.99404e-19	1.000000
rad67	3.18400e-19	1.000000	3.18400e-19	1.000000
PhcycC3H3_A+H	1.97716e-19	1.000000	1.97716e-19	1.000000
rad62	1.86785e-19	1.000000	1.86785e-19	1.000000
rad55	1.74889e-19	1.000000	1.74889e-19	1.000000
rad8	4.38828e-20	1.000000	4.38828e-20	1.000000
rad65	2.74182e-20	1.000000	2.74182e-20	1.000000
rad37	1.72588e-20	1.000000	1.72588e-20	1.000000
rad43	5.54285e-21	1.000000	5.54285e-21	1.000000

PAH10+CH3	3.65332e-21	1.00000	3.65332e-21	1.00000
rad47	3.54105e-21	1.00000	3.54105e-21	1.00000
PAH1+H	2.46166e-21	1.00000	2.46166e-21	1.00000
rad73	9.03869e-22	1.00000	9.03869e-22	1.00000
rad42	8.08213e-22	1.00000	8.08213e-22	1.00000
rad71	3.38087e-22	1.00000	3.38087e-22	1.00000
rad68syn	1.75038e-22	1.00000	1.75038e-22	1.00000
rad68anti	1.25060e-22	1.00000	1.25060e-22	1.00000
rad53	9.80822e-23	1.00000	9.80822e-23	1.00000
rad41	2.36442e-23	1.00000	2.36442e-23	1.00000
rad64	1.28490e-23	1.00000	1.28490e-23	1.00000
rad56	3.82339e-24	1.00000	3.82339e-24	1.00000
PAH8+H	2.77583e-24	1.00000	2.77583e-24	1.00000
rad40syn	2.13262e-24	1.00000	2.13262e-24	1.00000
rad61	5.71455e-25	1.00000	5.71455e-25	1.00000
rad72	5.23120e-25	1.00000	5.23120e-25	1.00000
rad40anti	5.07284e-25	1.00000	5.07284e-25	1.00000

1000000.00 Pa, 400.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	5.11288e-15	(1.00)	5.11288e-15	(1.00)
Formation of rad11	3.08094e-15	(0.603)	3.08094e-15	(0.603)
Formation of rad6	1.54092e-15	(0.301)	1.54092e-15	(0.301)
H-abstraction	4.91025e-16	(0.0960)	4.91025e-16	(0.0960)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.594617	0.594617	0.594618	0.594618
rad6	0.308613	0.903230	0.308613	0.903231
Benzene+2-propynyl	0.0960368	0.999267	0.0960369	0.999268
rad21	0.000255958	0.999523	0.000255958	0.999524
rad22	0.000179726	0.999703	0.000179726	0.999703
rad20	0.000173069	0.999876	0.000173069	0.999877
rad45	3.94581e-05	0.999915	3.94582e-05	0.999916
rad18	3.19227e-05	0.999947	3.19227e-05	0.999948
C2H2+PhCH2	1.57233e-05	0.999963	1.57234e-05	0.999964
Indene+H	1.16516e-05	0.999974	1.16516e-05	0.999975
rad7	8.24301e-06	0.999983	8.24301e-06	0.999984
rad13	6.62749e-06	0.999989	6.62750e-06	0.999990
PhCHCCH2+H	2.98396e-06	0.999992	2.98396e-06	0.999993
rad23	2.84883e-06	0.999995	2.84883e-06	0.999996
rad25	2.08129e-06	0.999997	2.08129e-06	0.999998
rad36	1.64059e-06	0.999999	1.64059e-06	1.000000
Phenyl+Allene	8.94938e-07	1.000000	0.000000	1.000000
rad9	3.09685e-07	1.000000	3.09685e-07	1.000000
PhCH2CCH+H	2.09267e-07	1.000000	2.09267e-07	1.000000
rad33	4.03997e-08	1.000000	4.03996e-08	1.000000
rad24	3.68088e-08	1.000000	3.68088e-08	1.000000
rad3	1.56884e-08	1.000000	1.56884e-08	1.000000
rad4	9.25007e-09	1.000000	9.25007e-09	1.000000
rad28	3.71401e-09	1.000000	3.71401e-09	1.000000
PhCCH+CH3	1.66157e-09	1.000000	1.66157e-09	1.000000
rad2	8.38406e-10	1.000000	8.38407e-10	1.000000
rad15	8.23718e-10	1.000000	8.23719e-10	1.000000
rad30	5.95818e-10	1.000000	5.95818e-10	1.000000
PAH9+H	5.10173e-10	1.000000	5.10174e-10	1.000000
rad38	4.27679e-10	1.000000	4.27679e-10	1.000000
PAH7+H	2.99911e-10	1.000000	2.99911e-10	1.000000
rad46	9.65505e-11	1.000000	9.65505e-11	1.000000
rad1	9.26888e-11	1.000000	9.26888e-11	1.000000
rad35	8.83938e-11	1.000000	8.83939e-11	1.000000
Ph+MeAc	8.31808e-11	1.000000	8.31809e-11	1.000000
rad50	3.20721e-11	1.000000	3.20722e-11	1.000000
rad10	1.54799e-11	1.000000	1.54799e-11	1.000000
PhCCCH3+H	1.05814e-11	1.000000	1.05815e-11	1.000000
rad39	9.57378e-12	1.000000	9.57378e-12	1.000000
rad51	4.97165e-12	1.000000	4.97166e-12	1.000000
rad14	4.95851e-12	1.000000	4.95852e-12	1.000000
rad19anti	3.18814e-12	1.000000	3.18814e-12	1.000000
rad60syn	2.72761e-12	1.000000	2.72762e-12	1.000000
PAH3+H	2.62898e-12	1.000000	2.62899e-12	1.000000
rad52	2.02559e-12	1.000000	2.02559e-12	1.000000
rad60anti	1.37549e-12	1.000000	1.37549e-12	1.000000
rad26	1.29215e-12	1.000000	1.29215e-12	1.000000
rad59	4.05002e-13	1.000000	4.05002e-13	1.000000
rad12	2.08361e-13	1.000000	2.08361e-13	1.000000
PAH10+CH3	1.59493e-13	1.000000	1.59493e-13	1.000000
rad37	1.44560e-13	1.000000	1.44561e-13	1.000000

rad65	1.08660e-13	1.00000	1.08660e-13	1.00000
rad70	1.00185e-13	1.00000	1.00185e-13	1.00000
PAH1+H	7.38683e-14	1.00000	7.38684e-14	1.00000
rad27	3.38702e-14	1.00000	3.38703e-14	1.00000
rad73	3.17511e-14	1.00000	3.17511e-14	1.00000
rad71	3.13939e-14	1.00000	3.13939e-14	1.00000
rad19syn	2.81339e-14	1.00000	2.81340e-14	1.00000
rad67	1.59036e-14	1.00000	1.59036e-14	1.00000
rad54	1.40786e-14	1.00000	1.40786e-14	1.00000
PhcycC3H3_A+H	9.66481e-15	1.00000	9.66481e-15	1.00000
rad34	6.63828e-15	1.00000	6.63829e-15	1.00000
rad58	4.83430e-15	1.00000	4.83431e-15	1.00000
rad5	4.39808e-15	1.00000	4.39808e-15	1.00000
rad62	1.60754e-15	1.00000	1.60754e-15	1.00000
rad31	1.44235e-15	1.00000	1.44235e-15	1.00000
rad64	1.11394e-15	1.00000	1.11395e-15	1.00000
rad55	6.43663e-16	1.00000	6.43663e-16	1.00000
rad72	5.28083e-16	1.00000	5.28083e-16	1.00000
rad43	2.94059e-16	1.00000	2.94059e-16	1.00000
PAH8+H	2.73505e-16	1.00000	2.73506e-16	1.00000
rad61	1.62756e-16	1.00000	1.62757e-16	1.00000
rad68syn	1.28205e-16	1.00000	1.28206e-16	1.00000
rad53	1.01069e-16	1.00000	1.01069e-16	1.00000
rad56	8.70335e-17	1.00000	8.70336e-17	1.00000
rad68anti	8.40403e-17	1.00000	8.40404e-17	1.00000
rad40syn	3.79850e-17	1.00000	3.79850e-17	1.00000
rad42	3.76565e-17	1.00000	3.76566e-17	1.00000
rad47	3.50781e-17	1.00000	3.50781e-17	1.00000
rad40anti	2.11349e-17	1.00000	2.11349e-17	1.00000
rad41	7.30951e-18	1.00000	7.30952e-18	1.00000
rad8	2.58122e-19	1.00000	2.58122e-19	1.00000

1000000.00 Pa, 500.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.11551e-14	(1.00)	2.11548e-14	(1.00)
Formation of rad11	1.10850e-14	(0.524)	1.10848e-14	(0.524)
Formation of rad6	7.08033e-15	(0.335)	7.08023e-15	(0.335)
H-abstraction	2.98976e-15	(0.141)	2.98976e-15	(0.141)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.502168	0.502168	0.502175	0.502175
rad6	0.354074	0.856243	0.354079	0.856254
Benzene+2-propynyl	0.141326	0.997568	0.141328	0.997581
rad22	0.000776014	0.998344	0.000776024	0.998357
rad21	0.000463116	0.998807	0.000463122	0.998820
rad20	0.000400449	0.999208	0.000400454	0.999221
C2H2+PhCH2	0.000177594	0.999385	0.000177598	0.999398
Indene+H	0.000165915	0.999551	0.000165916	0.999564
rad45	0.000154269	0.999706	0.000154270	0.999719
rad18	0.000134388	0.999840	0.000134390	0.999853
rad23	4.72809e-05	0.999887	4.72815e-05	0.999900
rad7	3.67352e-05	0.999924	3.67356e-05	0.999937
PhCHCCH2+H	2.73349e-05	0.999951	2.73352e-05	0.999964
Phenyl+Allene	1.26193e-05	0.999964	0.00000	0.999964
rad13	1.17758e-05	0.999976	1.17759e-05	0.999976
rad36	7.58200e-06	0.999983	7.58210e-06	0.999984
rad25	7.23078e-06	0.999991	7.23086e-06	0.999991
PhCH2CCH+H	4.25319e-06	0.999995	4.25325e-06	0.999995
rad9	2.93405e-06	0.999998	2.93408e-06	0.999998
PAH9+H	7.38482e-07	0.999998	7.38491e-07	0.999999
rad38	3.76484e-07	0.999999	3.76489e-07	0.999999
rad46	1.22778e-07	0.999999	1.22780e-07	0.999999
PAH7+H	1.18776e-07	0.999999	1.18778e-07	0.999999
rad35	1.09369e-07	0.999999	1.09371e-07	0.999999
rad50	1.04466e-07	0.999999	1.04468e-07	1.000000
PhCCH+CH3	1.03608e-07	0.999999	1.03609e-07	1.000000
rad24	9.47393e-08	0.999999	9.47399e-08	1.000000
rad3	8.41057e-08	1.000000	8.41068e-08	1.000000
rad33	6.50497e-08	1.000000	6.50505e-08	1.000000
rad28	5.37788e-08	1.000000	5.37794e-08	1.000000
rad4	5.21283e-08	1.000000	5.21290e-08	1.000000
rad39	4.52606e-08	1.000000	4.52612e-08	1.000000
rad51	2.94086e-08	1.000000	2.94089e-08	1.000000
rad30	1.60452e-08	1.000000	1.60454e-08	1.000000
rad2	1.52294e-08	1.000000	1.52296e-08	1.000000
rad15	1.26769e-08	1.000000	1.26770e-08	1.000000
Ph+MeAc	1.26075e-08	1.000000	1.26076e-08	1.000000

rad52	8.90059e-09	1.000000	8.90074e-09	1.000000
rad19anti	4.01608e-09	1.000000	4.01613e-09	1.000000
PAH3+H	3.36482e-09	1.000000	3.36485e-09	1.000000
PhCCCH3+H	3.04851e-09	1.000000	3.04854e-09	1.000000
rad1	2.10060e-09	1.000000	2.10062e-09	1.000000
PAH10+CH3	1.94981e-09	1.000000	1.94983e-09	1.000000
rad10	1.06337e-09	1.000000	1.06338e-09	1.000000
PAH1+H	9.76854e-10	1.000000	9.76869e-10	1.000000
rad37	8.91871e-10	1.000000	8.91886e-10	1.000000
rad71	8.71262e-10	1.000000	8.71278e-10	1.000000
rad65	7.53750e-10	1.000000	7.53760e-10	1.000000
rad73	6.48716e-10	1.000000	6.48724e-10	1.000000
rad60syn	3.48926e-10	1.000000	3.48930e-10	1.000000
rad26	3.38408e-10	1.000000	3.38412e-10	1.000000
rad59	3.26831e-10	1.000000	3.26835e-10	1.000000
rad67	2.27154e-10	1.000000	2.27157e-10	1.000000
rad60anti	2.07612e-10	1.000000	2.07615e-10	1.000000
rad19syn	2.03277e-10	1.000000	2.03279e-10	1.000000
rad70	1.35746e-10	1.000000	1.35748e-10	1.000000
PhcycC3H3_A+H	1.26622e-10	1.000000	1.26623e-10	1.000000
rad54	8.33034e-11	1.000000	8.33045e-11	1.000000
rad14	7.22325e-11	1.000000	7.22333e-11	1.000000
rad58	3.49860e-11	1.000000	3.49864e-11	1.000000
rad34	3.46349e-11	1.000000	3.46353e-11	1.000000
rad72	2.70444e-11	1.000000	2.70447e-11	1.000000
rad64	1.82798e-11	1.000000	1.82800e-11	1.000000
PAH8+H	9.97840e-12	1.000000	9.97846e-12	1.000000
rad62	7.10146e-12	1.000000	7.10155e-12	1.000000
rad55	6.15742e-12	1.000000	6.15751e-12	1.000000
rad61	3.99187e-12	1.000000	3.99192e-12	1.000000
rad12	3.40556e-12	1.000000	3.40561e-12	1.000000
rad68syn	2.95297e-12	1.000000	2.95301e-12	1.000000
rad68anti	1.91896e-12	1.000000	1.91898e-12	1.000000
rad56	1.90218e-12	1.000000	1.90221e-12	1.000000
rad53	1.77844e-12	1.000000	1.77847e-12	1.000000
rad43	1.52014e-12	1.000000	1.52015e-12	1.000000
rad40syn	1.16024e-12	1.000000	1.16026e-12	1.000000
rad27	7.94359e-13	1.000000	7.94369e-13	1.000000
rad40anti	6.97058e-13	1.000000	6.97067e-13	1.000000
rad42	6.56691e-13	1.000000	6.56699e-13	1.000000
rad5	4.22014e-13	1.000000	4.22019e-13	1.000000
rad47	3.16753e-13	1.000000	3.16757e-13	1.000000
rad31	1.90925e-13	1.000000	1.90928e-13	1.000000
rad41	1.26441e-13	1.000000	1.26442e-13	1.000000
rad8	3.90386e-18	1.000000	3.90391e-18	1.000000

1000000.00 Pa, 600.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.08120e-14 (1.00)	6.08049e-14 (1.00)
Formation of rad11	2.83304e-14 (0.466)	2.83264e-14 (0.466)
Formation of rad6	2.13840e-14 (0.352)	2.13810e-14 (0.352)
H-abstraction	1.10975e-14 (0.182)	1.10975e-14 (0.183)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.411557	0.411557	0.411605	0.411605
rad6	0.398696	0.810253	0.398742	0.810347
Benzene+2-propynyl	0.182488	0.992741	0.182509	0.992857
rad22	0.00226785	0.995009	0.00226812	0.995125
Indene+H	0.00123089	0.996240	0.00123103	0.996356
C2H2+PhCH2	0.00110261	0.997343	0.00110275	0.997459
rad21	0.000669658	0.998012	0.000669736	0.998128
rad20	0.000619397	0.998632	0.000619468	0.998748
rad45	0.000305108	0.998937	0.000305144	0.999053
rad18	0.000294119	0.999231	0.000294154	0.999347
PhCHCCH2+H	0.000180064	0.999411	0.000180085	0.999527
rad23	0.000169481	0.999580	0.000169501	0.999697
rad7	0.000134538	0.999715	0.000134554	0.999831
Phenyl+Allene	0.000116054	0.999831	0.000000	0.999831
PhCH2CCH+H	5.02449e-05	0.999881	5.02507e-05	0.999882
rad9	1.88326e-05	0.999900	1.88348e-05	0.999900
rad36	1.86576e-05	0.999919	1.86598e-05	0.999919
PAH9+H	1.82809e-05	0.999937	1.82830e-05	0.999937
rad13	1.72741e-05	0.999954	1.72761e-05	0.999955
rad25	1.55131e-05	0.999970	1.55149e-05	0.999970
rad38	9.08754e-06	0.999979	9.08853e-06	0.999979
PAH7+H	3.69914e-06	0.999983	3.69957e-06	0.999983
rad50	3.46326e-06	0.999986	3.46367e-06	0.999986

rad46	3.24897e-06	0.999989	3.24935e-06	0.999990
rad35	2.57061e-06	0.999992	2.57091e-06	0.999992
PhCCH+CH3	1.84127e-06	0.999994	1.84148e-06	0.999994
rad39	1.60598e-06	0.999995	1.60616e-06	0.999996
rad51	1.10335e-06	0.999997	1.10347e-06	0.999997
rad28	5.29369e-07	0.999997	5.29431e-07	0.999997
Ph+MeAc	3.18857e-07	0.999997	3.18894e-07	0.999998
rad24	3.18360e-07	0.999998	3.18397e-07	0.999998
rad52	3.13762e-07	0.999998	3.13798e-07	0.999998
rad3	2.63188e-07	0.999998	2.63219e-07	0.999998
rad30	1.91771e-07	0.999998	1.91793e-07	0.999999
rad19anti	1.72532e-07	0.999999	1.72552e-07	0.999999
rad4	1.71987e-07	0.999999	1.72007e-07	0.999999
PAH3+H	1.12710e-07	0.999999	1.12724e-07	0.999999
rad33	1.05361e-07	0.999999	1.05374e-07	0.999999
rad15	9.45338e-08	0.999999	9.45452e-08	0.999999
PAH10+CH3	7.95878e-08	0.999999	7.95970e-08	0.999999
PhCCCH3+H	6.49710e-08	0.999999	6.49785e-08	0.999999
rad2	6.03854e-08	0.999999	6.03924e-08	1.000000
rad71	4.23048e-08	0.999999	4.23097e-08	1.000000
PAH1+H	4.21547e-08	0.999999	4.21596e-08	1.000000
rad37	3.06482e-08	0.999999	3.06518e-08	1.000000
rad73	3.00378e-08	0.999999	3.00412e-08	1.000000
rad65	2.82965e-08	0.999999	2.82997e-08	1.000000
rad19syn	1.70214e-08	0.999999	1.70233e-08	1.000000
PhycC3H3_A+H	1.15385e-08	1.000000	1.15399e-08	1.000000
rad59	1.04499e-08	1.000000	1.04511e-08	1.000000
rad67	1.01400e-08	1.000000	1.01412e-08	1.000000
rad1	9.92050e-09	1.000000	9.92164e-09	1.000000
rad60syn	8.87098e-09	1.000000	8.87206e-09	1.000000
rad54	7.16206e-09	1.000000	7.16289e-09	1.000000
rad70	5.84823e-09	1.000000	5.84890e-09	1.000000
rad60anti	5.46237e-09	1.000000	5.46300e-09	1.000000
rad10	5.46083e-09	1.000000	5.46147e-09	1.000000
rad26	2.83592e-09	1.000000	2.83624e-09	1.000000
rad34	1.57105e-09	1.000000	1.57123e-09	1.000000
rad72	1.43335e-09	1.000000	1.43352e-09	1.000000
rad58	1.34901e-09	1.000000	1.34916e-09	1.000000
rad64	8.20152e-10	1.000000	8.20245e-10	1.000000
rad47	5.68996e-10	1.000000	5.69061e-10	1.000000
rad55	5.42772e-10	1.000000	5.42835e-10	1.000000
PAH8+H	5.32702e-10	1.000000	5.32763e-10	1.000000
rad62	3.60786e-10	1.000000	3.60828e-10	1.000000
rad14	2.62911e-10	1.000000	2.62941e-10	1.000000
rad61	1.87903e-10	1.000000	1.87925e-10	1.000000
rad56	1.84840e-10	1.000000	1.84862e-10	1.000000
rad53	1.68121e-10	1.000000	1.68141e-10	1.000000
rad68syn	1.47952e-10	1.000000	1.47970e-10	1.000000
rad68anti	9.60298e-11	1.000000	9.60412e-11	1.000000
rad12	7.48205e-11	1.000000	7.48292e-11	1.000000
rad43	6.86944e-11	1.000000	6.87024e-11	1.000000
rad40syn	6.04462e-11	1.000000	6.04532e-11	1.000000
rad40anti	3.66952e-11	1.000000	3.66994e-11	1.000000
rad42	3.51309e-11	1.000000	3.51350e-11	1.000000
rad31	7.64008e-12	1.000000	7.64097e-12	1.000000
rad41	6.28360e-12	1.000000	6.28433e-12	1.000000
rad5	2.44571e-12	1.000000	2.44600e-12	1.000000
rad27	2.30863e-12	1.000000	2.30890e-12	1.000000
rad8	1.78928e-16	1.000000	1.78949e-16	1.000000

1000000.00 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.39564e-13 (1.00)	1.39473e-13 (1.00)
Formation of rad11	5.88273e-14 (0.422)	5.87786e-14 (0.421)
Formation of rad6	5.01684e-14 (0.359)	5.01268e-14 (0.359)
H-abstraction	3.05678e-14 (0.219)	3.05678e-14 (0.219)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.454308	0.454308	0.454602	0.454602
rad11	0.308574	0.762882	0.308774	0.763377
Benzene+2-propynyl	0.219024	0.981906	0.219166	0.982543
Indene+H	0.00449179	0.986398	0.00449470	0.987038
rad22	0.00419337	0.990592	0.00419608	0.991234
C2H2+PhCH2	0.00402094	0.994612	0.00402355	0.995257
rad21	0.000858808	0.995471	0.000859362	0.996117
PhCHCCH2+H	0.000810840	0.996282	0.000811364	0.996928
rad20	0.000734027	0.997016	0.000734502	0.997662

Phenyl+Allene	0.000647692	0.997664	0.00000	0.997662
rad23	0.000455167	0.998119	0.000455462	0.998118
rad45	0.000451576	0.998571	0.000451868	0.998570
rad7	0.000375398	0.998946	0.000375641	0.998945
rad18	0.000363433	0.999309	0.000363669	0.999309
PhCH2CCH+H	0.000325389	0.999635	0.000325599	0.999635
PAH9+H	7.78257e-05	0.999713	7.78761e-05	0.999713
rad9	6.55039e-05	0.999778	6.55465e-05	0.999778
rad38	3.86263e-05	0.999817	3.86513e-05	0.999817
rad36	3.51850e-05	0.999852	3.52077e-05	0.999852
rad13	2.54144e-05	0.999877	2.54308e-05	0.999877
rad25	2.23040e-05	0.999900	2.23184e-05	0.999900
PAH7+H	1.74376e-05	0.999917	1.74490e-05	0.999917
rad50	1.56747e-05	0.999933	1.56848e-05	0.999933
rad46	1.40707e-05	0.999947	1.40798e-05	0.999947
PhCCH+CH3	1.36351e-05	0.999960	1.36438e-05	0.999961
rad35	1.08451e-05	0.999971	1.08521e-05	0.999971
rad39	7.41451e-06	0.999979	7.41932e-06	0.999979
rad51	5.11245e-06	0.999984	5.11577e-06	0.999984
rad28	3.72402e-06	0.999988	3.72644e-06	0.999988
Ph+MeAc	2.49331e-06	0.999990	2.49493e-06	0.999990
rad19anti	2.34048e-06	0.999992	2.34200e-06	0.999993
rad52	1.43599e-06	0.999994	1.43692e-06	0.999994
rad24	1.35627e-06	0.999995	1.35715e-06	0.999995
rad30	9.18630e-07	0.999996	9.19229e-07	0.999996
rad3	5.58786e-07	0.999997	5.59148e-07	0.999997
PAH3+H	5.30015e-07	0.999997	5.30359e-07	0.999997
PhCCCH3+H	4.17293e-07	0.999998	4.17563e-07	0.999998
rad4	3.90458e-07	0.999998	3.90711e-07	0.999998
PAH10+CH3	3.82666e-07	0.999998	3.82914e-07	0.999999
rad15	2.70870e-07	0.999999	2.71046e-07	0.999999
rad33	2.34725e-07	0.999999	2.34878e-07	0.999999
PAH1+H	2.06034e-07	0.999999	2.06167e-07	0.999999
rad71	2.03815e-07	0.999999	2.03947e-07	0.999999
rad2	1.53697e-07	0.999999	1.53797e-07	1.000000
rad37	1.43587e-07	1.000000	1.43680e-07	1.000000
rad73	1.43247e-07	1.000000	1.43340e-07	1.000000
rad19syn	1.40257e-07	1.000000	1.40349e-07	1.000000
rad65	1.31064e-07	1.000000	1.31150e-07	1.000000
rad67	1.01693e-07	1.000000	1.01759e-07	1.000000
PhcycC3H3_A+H	1.00429e-07	1.000000	1.00494e-07	1.000000
rad54	5.98007e-08	1.000000	5.98395e-08	1.000000
rad59	4.94802e-08	1.000000	4.95123e-08	1.000000
rad60syn	4.39527e-08	1.000000	4.39812e-08	1.000000
rad70	3.28635e-08	1.000000	3.28848e-08	1.000000
rad1	2.93570e-08	1.000000	2.93760e-08	1.000000
rad60anti	2.69257e-08	1.000000	2.69431e-08	1.000000
rad47	2.68553e-08	1.000000	2.68728e-08	1.000000
rad10	1.23086e-08	1.000000	1.23166e-08	1.000000
rad26	1.13457e-08	1.000000	1.13531e-08	1.000000
rad34	8.35816e-09	1.000000	8.36359e-09	1.000000
rad72	7.05438e-09	1.000000	7.05896e-09	1.000000
rad58	6.33234e-09	1.000000	6.33644e-09	1.000000
rad55	4.60182e-09	1.000000	4.60480e-09	1.000000
rad64	4.03569e-09	1.000000	4.03831e-09	1.000000
PAH8+H	2.79467e-09	1.000000	2.79648e-09	1.000000
rad62	2.25056e-09	1.000000	2.25202e-09	1.000000
rad56	1.71064e-09	1.000000	1.71174e-09	1.000000
rad53	1.51549e-09	1.000000	1.51647e-09	1.000000
rad12	1.50898e-09	1.000000	1.50996e-09	1.000000
rad61	9.26175e-10	1.000000	9.26779e-10	1.000000
rad68syn	7.67607e-10	1.000000	7.68105e-10	1.000000
rad14	6.68902e-10	1.000000	6.69335e-10	1.000000
rad68anti	4.98150e-10	1.000000	4.98473e-10	1.000000
rad43	4.11749e-10	1.000000	4.12016e-10	1.000000
rad40syn	3.15872e-10	1.000000	3.16076e-10	1.000000
rad42	2.12791e-10	1.000000	2.12929e-10	1.000000
rad40anti	1.92255e-10	1.000000	1.92379e-10	1.000000
rad31	8.23328e-11	1.000000	8.23866e-11	1.000000
rad41	3.67853e-11	1.000000	3.68091e-11	1.000000
rad5	6.82210e-12	1.000000	6.82652e-12	1.000000
rad27	4.55859e-12	1.000000	4.56154e-12	1.000000
rad8	2.26459e-14	1.000000	2.26606e-14	1.000000

1000000.00 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.75392e-13 (1.00)	2.74754e-13 (1.00)
Formation of rad11	1.06471e-13 (0.387)	1.06141e-13 (0.386)

Formation of rad6 | 9.97133e-14 (0.362) 9.94044e-14 (0.362)
H-abstraction | 6.92082e-14 (0.251) 6.92082e-14 (0.252)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.509717	0.509717	0.510902	0.510902
Benzene+2-propynyl	0.251308	0.761025	0.251892	0.762794
rad11	0.203247	0.964272	0.203720	0.966514
Indene+H	0.00985586	0.974128	0.00987877	0.976393
C2H2+PhCH2	0.00937310	0.983501	0.00939489	0.985788
rad22	0.00481915	0.988320	0.00483035	0.990618
PhCHCCH2+H	0.00252672	0.990846	0.00253260	0.993151
Phenyl+Allene	0.00231912	0.993166	0.000000	0.993151
PhCH2CCH+H	0.00132739	0.994493	0.00133047	0.994481
rad21	0.00118088	0.995674	0.00118363	0.995665
rad23	0.000896574	0.996570	0.000898657	0.996563
rad20	0.000842653	0.997413	0.000844614	0.997408
rad7	0.000767237	0.998180	0.000769018	0.998177
rad45	0.000711517	0.998892	0.000713171	0.998890
rad18	0.000285282	0.999177	0.000285944	0.999176
PAH9+H	0.000167843	0.999345	0.000168232	0.999344
rad9	0.000139512	0.999484	0.000139836	0.999484
rad38	8.32950e-05	0.999568	8.34889e-05	0.999568
rad36	6.92095e-05	0.999637	6.93703e-05	0.999637
PhCCH+CH3	6.36865e-05	0.999701	6.38345e-05	0.999701
rad13	4.59653e-05	0.999747	4.60722e-05	0.999747
PAH7+H	4.19470e-05	0.999789	4.20445e-05	0.999789
rad50	3.47554e-05	0.999823	3.48362e-05	0.999824
rad46	3.05953e-05	0.999854	3.06664e-05	0.999854
rad25	2.70973e-05	0.999881	2.71603e-05	0.999882
rad35	2.34642e-05	0.999905	2.35187e-05	0.999905
rad28	1.96856e-05	0.999924	1.97314e-05	0.999925
rad39	1.67154e-05	0.999941	1.67543e-05	0.999942
rad19anti	1.23107e-05	0.999953	1.23394e-05	0.999954
Ph+MeAc	1.21386e-05	0.999965	1.21669e-05	0.999966
rad51	1.14569e-05	0.999977	1.14835e-05	0.999978
rad24	5.36575e-06	0.999982	5.37822e-06	0.999983
rad52	3.19850e-06	0.999985	3.20594e-06	0.999986
rad30	2.53432e-06	0.999988	2.54021e-06	0.999989
PhCCCH3+H	1.85396e-06	0.999990	1.85827e-06	0.999991
PAH3+H	1.30122e-06	0.999991	1.30424e-06	0.999992
rad3	1.05504e-06	0.999992	1.05750e-06	0.999993
PAH10+CH3	9.42619e-07	0.999993	9.44808e-07	0.999994
rad33	8.49683e-07	0.999994	8.51654e-07	0.999995
rad4	7.82623e-07	0.999995	7.84444e-07	0.999996
rad67	6.87701e-07	0.999995	6.89299e-07	0.999996
PAH1+H	4.73626e-07	0.999996	4.74728e-07	0.999997
rad71	4.67704e-07	0.999996	4.68791e-07	0.999997
rad19syn	3.93430e-07	0.999997	3.94345e-07	0.999998
rad37	3.51983e-07	0.999997	3.52800e-07	0.999998
rad73	3.26532e-07	0.999997	3.27291e-07	0.999998
rad2	3.17244e-07	0.999998	3.17982e-07	0.999999
rad15	3.08797e-07	0.999998	3.09514e-07	0.999999
rad65	2.93530e-07	0.999998	2.94212e-07	0.999999
PhcycC3H3_A+H	2.65263e-07	0.999999	2.65880e-07	0.999999
rad54	1.64572e-07	0.999999	1.64955e-07	1.000000
rad59	1.24791e-07	0.999999	1.25081e-07	1.000000
rad47	1.23930e-07	0.999999	1.24219e-07	1.000000
rad60syn	1.21409e-07	0.999999	1.21692e-07	1.000000
rad70	1.05209e-07	0.999999	1.05454e-07	1.000000
rad60anti	7.37320e-08	0.999999	7.39034e-08	1.000000
rad1	7.02430e-08	0.999999	7.04063e-08	1.000000
rad26	3.72859e-08	0.999999	3.73726e-08	1.000000
rad10	2.69148e-08	0.999999	2.69774e-08	1.000000
rad34	2.31833e-08	0.999999	2.32371e-08	1.000000
rad12	2.06001e-08	0.999999	2.06480e-08	1.000000
rad72	1.64113e-08	0.999999	1.64494e-08	1.000000
rad58	1.46783e-08	1.000000	1.47124e-08	1.000000
rad55	1.23321e-08	1.000000	1.23608e-08	1.000000
rad64	9.27106e-09	1.000000	9.29263e-09	1.000000
rad62	7.94707e-09	1.000000	7.96556e-09	1.000000
PAH8+H	6.66931e-09	1.000000	6.68482e-09	1.000000
rad56	4.49513e-09	1.000000	4.50557e-09	1.000000
rad53	3.96311e-09	1.000000	3.97232e-09	1.000000
rad61	2.29625e-09	1.000000	2.30159e-09	1.000000
rad14	1.90398e-09	1.000000	1.90841e-09	1.000000
rad68syn	1.82800e-09	1.000000	1.83225e-09	1.000000
rad43	1.61399e-09	1.000000	1.61775e-09	1.000000
rad68anti	1.18671e-09	1.000000	1.18947e-09	1.000000
rad40syn	7.55865e-10	1.000000	7.57624e-10	1.000000

rad42	7.23683e-10	1.000000	7.25366e-10	1.00000
rad40anti	4.62801e-10	1.000000	4.63877e-10	1.00000
rad31	4.55969e-10	1.000000	4.57029e-10	1.00000
rad41	1.42186e-10	1.000000	1.42516e-10	1.00000
rad5	1.42401e-11	1.000000	1.42732e-11	1.00000
rad27	1.35668e-11	1.000000	1.35984e-11	1.00000
rad8	4.46179e-12	1.000000	4.47217e-12	1.00000

1000000.00 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.88072e-13 (1.00)	4.84984e-13 (1.00)
Formation of rad11	1.74945e-13 (0.358)	1.73408e-13 (0.358)
Formation of rad6	1.76509e-13 (0.362)	1.74958e-13 (0.361)
H-abstraction	1.36618e-13 (0.280)	1.36618e-13 (0.282)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.542752	0.542752	0.546208	0.546208
Benzene+2-propynyl	0.279914	0.822666	0.281696	0.827904
rad11	0.118213	0.940879	0.118965	0.946870
C2H2+PhCH2	0.0158673	0.956746	0.0159683	0.962838
Indene+H	0.0155916	0.972338	0.0156909	0.978529
Phenyl+Allene	0.00632774	0.978665	0.000000	0.978529
PhCHCCH2+H	0.00588730	0.984553	0.00592479	0.984454
PhCH2CCH+H	0.00392627	0.988479	0.00395127	0.988405
rad22	0.00371781	0.992197	0.00374149	0.992147
rad21	0.00157646	0.993773	0.00158650	0.993733
rad7	0.00124818	0.995021	0.00125612	0.994989
rad23	0.00116411	0.996186	0.00117153	0.996161
rad45	0.00103337	0.997219	0.00103995	0.997201
rad20	0.000943666	0.998163	0.000949669	0.998151
PhCCH+CH3	0.000274267	0.998437	0.000276014	0.998427
PAH9+H	0.000267499	0.998704	0.000269202	0.998696
rad9	0.000245448	0.998950	0.000247011	0.998943
rad18	0.000172426	0.999122	0.000173524	0.999116
rad38	0.000132533	0.999255	0.000133377	0.999250
rad13	0.000112272	0.999367	0.000112986	0.999363
rad36	0.000104630	0.999472	0.000105296	0.999468
PAH7+H	8.81724e-05	0.999560	8.87342e-05	0.999557
rad28	7.90554e-05	0.999639	7.95586e-05	0.999636
rad50	5.63313e-05	0.999695	5.66900e-05	0.999693
Ph+MeAc	4.94393e-05	0.999745	4.97542e-05	0.999743
rad46	4.89602e-05	0.999794	4.92719e-05	0.999792
rad35	3.77778e-05	0.999831	3.80184e-05	0.999830
rad19anti	3.47152e-05	0.999866	3.49363e-05	0.999865
rad25	3.30726e-05	0.999899	3.32832e-05	0.999898
rad39	2.96178e-05	0.999929	2.98064e-05	0.999928
rad51	1.86859e-05	0.999947	1.88048e-05	0.999947
rad24	1.16984e-05	0.999959	1.17729e-05	0.999959
PhCCCH3+H	6.86262e-06	0.999966	6.90633e-06	0.999965
rad52	5.19646e-06	0.999971	5.22955e-06	0.999971
rad30	5.01918e-06	0.999976	5.05115e-06	0.999976
rad33	3.95581e-06	0.999980	3.98100e-06	0.999980
PAH3+H	2.60650e-06	0.999983	2.62310e-06	0.999982
rad3	2.53190e-06	0.999985	2.54803e-06	0.999985
rad67	2.32222e-06	0.999988	2.33701e-06	0.999987
rad4	1.97736e-06	0.999990	1.98996e-06	0.999989
PAH10+CH3	1.78559e-06	0.999991	1.79696e-06	0.999991
rad19syn	1.20722e-06	0.999993	1.21491e-06	0.999992
rad2	8.21057e-07	0.999993	8.26286e-07	0.999993
PAH1+H	8.05330e-07	0.999994	8.10462e-07	0.999994
rad71	7.78709e-07	0.999995	7.83662e-07	0.999995
rad37	6.70284e-07	0.999996	6.74552e-07	0.999995
PhcycC3H3_A+H	5.95956e-07	0.999996	5.99751e-07	0.999996
rad73	5.41281e-07	0.999997	5.44728e-07	0.999996
rad65	4.78858e-07	0.999997	4.81908e-07	0.999997
rad54	4.76547e-07	0.999998	4.79581e-07	0.999997
rad70	3.26679e-07	0.999998	3.28760e-07	0.999998
rad15	3.03730e-07	0.999998	3.05663e-07	0.999998
rad60syn	2.64873e-07	0.999999	2.66560e-07	0.999998
rad59	2.58190e-07	0.999999	2.59834e-07	0.999999
rad47	2.37060e-07	0.999999	2.38569e-07	0.999999
rad1	2.08430e-07	0.999999	2.09758e-07	0.999999
rad12	1.85468e-07	1.000000	1.86648e-07	0.999999
rad26	1.80611e-07	1.000000	1.81762e-07	0.999999
rad60anti	1.60490e-07	1.000000	1.61512e-07	1.000000
rad10	8.21438e-08	1.000000	8.26667e-08	1.000000
rad34	6.22626e-08	1.000000	6.26591e-08	1.000000

rad55	3.17490e-08	1.00000	3.19512e-08	1.000000
rad72	2.75545e-08	1.00000	2.77299e-08	1.000000
rad58	2.65267e-08	1.00000	2.66956e-08	1.000000
rad62	2.52919e-08	1.00000	2.54530e-08	1.000000
rad64	1.54891e-08	1.00000	1.55877e-08	1.000000
PAH8+H	1.15936e-08	1.00000	1.16675e-08	1.000000
rad14	8.09543e-09	1.00000	8.14693e-09	1.000000
rad56	7.95731e-09	1.00000	8.00801e-09	1.000000
rad53	7.54204e-09	1.00000	7.59003e-09	1.000000
rad43	5.37086e-09	1.00000	5.40506e-09	1.000000
rad61	4.36188e-09	1.00000	4.38966e-09	1.000000
rad68syn	3.36962e-09	1.00000	3.39108e-09	1.000000
rad68anti	2.19283e-09	1.00000	2.20679e-09	1.000000
rad42	2.18895e-09	1.00000	2.20289e-09	1.000000
rad31	2.02116e-09	1.00000	2.03403e-09	1.000000
rad40syn	1.34848e-09	1.00000	1.35707e-09	1.000000
rad40anti	8.30087e-10	1.00000	8.35373e-10	1.000000
rad41	4.71127e-10	1.00000	4.74127e-10	1.000000
rad8	4.09150e-10	1.00000	4.11755e-10	1.000000
rad27	8.94542e-11	1.00000	9.00236e-11	1.000000
rad5	3.49243e-11	1.00000	3.51467e-11	1.000000

1000000.00 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.98668e-13 (1.00)	7.86323e-13 (1.00)
Formation of rad11	2.67704e-13 (0.335)	2.61747e-13 (0.333)
Formation of rad6	2.87049e-13 (0.359)	2.80662e-13 (0.357)
H-abstraction	2.43915e-13 (0.305)	2.43915e-13 (0.310)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.532038	0.532038	0.540390	0.540390
Benzene+2-propynyl	0.305402	0.837440	0.310197	0.850586
rad11	0.0732245	0.910664	0.0743746	0.924961
C2H2+PhCH2	0.0214611	0.932125	0.0217981	0.946759
Indene+H	0.0194003	0.951526	0.0197049	0.966464
Phenyl+Allene	0.0154567	0.966982	0.000000	0.966464
PhCHCCH2+H	0.0111302	0.978113	0.0113050	0.977769
PhCH2CCH+H	0.00932762	0.987440	0.00947411	0.987243
rad22	0.00214636	0.989587	0.00218005	0.989423
rad7	0.00184170	0.991428	0.00187061	0.991294
rad21	0.00165871	0.993087	0.00168475	0.992979
rad45	0.00127239	0.994359	0.00129237	0.994271
rad23	0.00107347	0.995433	0.00109033	0.995361
PhCCH+CH3	0.00106820	0.996501	0.00108497	0.996446
rad20	0.000863892	0.997365	0.000877451	0.997324
rad9	0.000416780	0.997782	0.000423323	0.997747
PAH9+H	0.000347196	0.998129	0.000352647	0.998100
rad13	0.000333918	0.998463	0.000339160	0.998439
PAH7+H	0.000242272	0.998705	0.000246076	0.998685
rad28	0.000214939	0.998920	0.000218314	0.998903
Ph+MeAc	0.000178865	0.999099	0.000181673	0.999085
rad38	0.000171265	0.999270	0.000173954	0.999259
rad36	0.000126222	0.999396	0.000128204	0.999387
rad18	0.000103286	0.999500	0.000104908	0.999492
rad50	7.33808e-05	0.999573	7.45326e-05	0.999567
rad19anti	7.06698e-05	0.999644	7.17796e-05	0.999638
rad46	6.34187e-05	0.999707	6.44144e-05	0.999703
rad39	5.84729e-05	0.999766	5.93908e-05	0.999762
rad35	4.98429e-05	0.999816	5.06254e-05	0.999813
rad25	4.17771e-05	0.999857	4.24329e-05	0.999855
rad51	2.44066e-05	0.999882	2.47897e-05	0.999880
PhCCCH3+H	2.19064e-05	0.999904	2.22504e-05	0.999902
rad33	1.61152e-05	0.999920	1.63682e-05	0.999919
rad24	1.49932e-05	0.999935	1.52287e-05	0.999934
rad30	7.96336e-06	0.999943	8.08836e-06	0.999942
rad19syn	6.93432e-06	0.999950	7.04317e-06	0.999949
rad52	6.77565e-06	0.999956	6.88202e-06	0.999956
rad3	6.00227e-06	0.999962	6.09650e-06	0.999962
rad67	5.05510e-06	0.999967	5.13446e-06	0.999967
PAH3+H	4.99189e-06	0.999972	5.07026e-06	0.999972
rad4	4.78267e-06	0.999977	4.85775e-06	0.999977
PhcycC3H3_A+H	2.92165e-06	0.999980	2.96752e-06	0.999980
PAH10+CH3	2.90323e-06	0.999983	2.94881e-06	0.999983
rad54	2.83306e-06	0.999986	2.87754e-06	0.999986
rad2	2.31836e-06	0.999988	2.35476e-06	0.999988
PAH1+H	1.39045e-06	0.999990	1.41228e-06	0.999990
rad37	1.18599e-06	0.999991	1.20461e-06	0.999991

rad12	1.10477e-06	0.999992	1.12212e-06	0.999992
rad70	1.06269e-06	0.999993	1.07938e-06	0.999993
rad71	1.02862e-06	0.999994	1.04477e-06	0.999994
rad26	7.99982e-07	0.999995	8.12540e-07	0.999995
rad73	7.13505e-07	0.999995	7.24708e-07	0.999996
rad65	6.26511e-07	0.999996	6.36346e-07	0.999996
rad1	6.22439e-07	0.999997	6.32211e-07	0.999997
rad60syn	5.01203e-07	0.999997	5.09071e-07	0.999997
rad59	5.00841e-07	0.999998	5.08704e-07	0.999998
rad15	4.25559e-07	0.999998	4.32241e-07	0.999998
rad47	3.10946e-07	0.999998	3.15828e-07	0.999999
rad60anti	3.05420e-07	0.999999	3.10215e-07	0.999999
rad10	2.80495e-07	0.999999	2.84899e-07	0.999999
rad34	2.01715e-07	0.999999	2.04882e-07	0.999999
rad55	1.82627e-07	0.999999	1.85494e-07	1.000000
rad62	7.95912e-08	1.000000	8.08408e-08	1.000000
rad58	4.69337e-08	1.000000	4.76706e-08	1.000000
rad14	4.17364e-08	1.000000	4.23916e-08	1.000000
rad72	3.65375e-08	1.000000	3.71111e-08	1.000000
rad53	3.30875e-08	1.000000	3.36069e-08	1.000000
rad56	2.96672e-08	1.000000	3.01330e-08	1.000000
rad64	2.45800e-08	1.000000	2.49659e-08	1.000000
PAH8+H	2.11081e-08	1.000000	2.14394e-08	1.000000
rad43	1.52347e-08	1.000000	1.54739e-08	1.000000
rad8	1.04430e-08	1.000000	1.06070e-08	1.000000
rad68syn	7.82041e-09	1.000000	7.94322e-09	1.000000
rad31	7.19708e-09	1.000000	7.31005e-09	1.000000
rad61	6.87815e-09	1.000000	6.98612e-09	1.000000
rad42	6.25702e-09	1.000000	6.35526e-09	1.000000
rad68anti	5.11755e-09	1.000000	5.19789e-09	1.000000
rad40syn	2.69369e-09	1.000000	2.73598e-09	1.000000
rad40anti	1.61748e-09	1.000000	1.64288e-09	1.000000
rad41	1.30559e-09	1.000000	1.32609e-09	1.000000
rad27	8.65497e-10	1.000000	8.79086e-10	1.000000
rad5	8.82494e-11	1.000000	8.96351e-11	1.000000

1000000.00 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22919e-12 (1.00)	1.18217e-12 (1.00)
Formation of rad11	3.87976e-13 (0.316)	3.65880e-13 (0.309)
Formation of rad6	4.37724e-13 (0.356)	4.12795e-13 (0.349)
H-abstraction	4.03491e-13 (0.328)	4.03491e-13 (0.341)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.473972	0.473972	0.492826	0.492826
Benzene+2-propynyl	0.328257	0.802230	0.341315	0.834141
rad11	0.0557001	0.857930	0.0579158	0.892057
Phenyl+Allene	0.0382567	0.896186	0.000000	0.892057
C2H2+PhCH2	0.0263512	0.922538	0.0273994	0.919456
Indene+H	0.0219300	0.944467	0.0228024	0.942259
PhCH2CCH+H	0.0197116	0.964179	0.0204956	0.962754
PhCHCCH2+H	0.0190954	0.983274	0.0198550	0.982609
PhCCH+CH3	0.00338718	0.986662	0.00352192	0.986131
rad7	0.00293501	0.989597	0.00305175	0.989183
rad45	0.00142733	0.991024	0.00148410	0.990667
rad21	0.00134435	0.992368	0.00139782	0.992065
rad22	0.00109450	0.993463	0.00113804	0.993203
rad13	0.000902218	0.994365	0.000938106	0.994141
rad23	0.000854154	0.995219	0.000888132	0.995029
PAH7+H	0.000814119	0.996033	0.000846503	0.995876
rad9	0.000722950	0.996756	0.000751705	0.996627
rad20	0.000608989	0.997365	0.000633213	0.997261
Ph+MeAc	0.000551203	0.997916	0.000573129	0.997834
PAH9+H	0.000414602	0.998331	0.000431094	0.998265
rad28	0.000382721	0.998714	0.000397945	0.998663
rad38	0.000203105	0.998917	0.000211184	0.998874
rad39	0.000153984	0.999071	0.000160109	0.999034
rad36	0.000139468	0.999210	0.000145016	0.999179
rad19anti	0.000124019	0.999334	0.000128953	0.999308
rad50	8.71304e-05	0.999421	9.05962e-05	0.999399
rad46	7.51956e-05	0.999497	7.81866e-05	0.999477
rad18	7.31642e-05	0.999570	7.60742e-05	0.999553
rad35	6.08714e-05	0.999631	6.32928e-05	0.999616
PhCCCH3+H	5.87550e-05	0.999689	6.10921e-05	0.999677
rad25	4.89302e-05	0.999738	5.08766e-05	0.999728
rad33	4.40341e-05	0.999782	4.57857e-05	0.999774
rad19syn	3.90686e-05	0.999822	4.06226e-05	0.999815

rad51	2.89991e-05	0.999851	3.01526e-05	0.999845
PhcycC3H3_A+H	1.89537e-05	0.999869	1.97077e-05	0.999864
rad24	1.70080e-05	0.999886	1.76845e-05	0.999882
rad54	1.65138e-05	0.999903	1.71707e-05	0.999899
rad3	1.15209e-05	0.999915	1.19792e-05	0.999911
rad30	1.13779e-05	0.999926	1.18305e-05	0.999923
PAH3+H	9.33192e-06	0.999935	9.70309e-06	0.999933
rad4	9.22034e-06	0.999944	9.58710e-06	0.999942
rad67	9.14880e-06	0.999954	9.51267e-06	0.999952
rad52	8.04667e-06	0.999962	8.36682e-06	0.999960
rad2	5.41966e-06	0.999967	5.63525e-06	0.999966
PAH10+CH3	5.21823e-06	0.999972	5.42580e-06	0.999971
PAH1+H	4.08344e-06	0.999976	4.24588e-06	0.999976
rad70	3.35892e-06	0.999980	3.49253e-06	0.999979
rad12	3.34746e-06	0.999983	3.48062e-06	0.999982
rad37	2.57080e-06	0.999986	2.67306e-06	0.999985
rad26	2.12472e-06	0.999988	2.20923e-06	0.999987
rad1	1.46009e-06	0.999989	1.51816e-06	0.999989
rad71	1.22860e-06	0.999990	1.27748e-06	0.999990
rad55	1.12567e-06	0.999992	1.17044e-06	0.999991
rad59	9.24708e-07	0.999992	9.61489e-07	0.999992
rad10	9.02715e-07	0.999993	9.38620e-07	0.999993
rad15	8.85303e-07	0.999994	9.20519e-07	0.999994
rad60syn	8.63095e-07	0.999995	8.97432e-07	0.999995
rad73	8.51521e-07	0.999996	8.85398e-07	0.999996
rad65	7.47542e-07	0.999997	7.77275e-07	0.999997
rad34	7.05310e-07	0.999997	7.33367e-07	0.999997
rad60anti	5.30647e-07	0.999998	5.51756e-07	0.999998
rad47	3.53828e-07	0.999998	3.67903e-07	0.999998
rad62	2.61299e-07	0.999999	2.71693e-07	0.999999
rad53	2.38654e-07	0.999999	2.48147e-07	0.999999
rad56	2.23712e-07	0.999999	2.32611e-07	0.999999
rad14	1.79271e-07	0.999999	1.86402e-07	0.999999
rad58	8.90375e-08	0.999999	9.25795e-08	0.999999
rad8	8.11076e-08	0.999999	8.43341e-08	0.999999
PAH8+H	7.72356e-08	0.999999	8.03076e-08	1.000000
rad64	6.56048e-08	1.000000	6.82148e-08	1.000000
rad72	4.37034e-08	1.000000	4.54420e-08	1.000000
rad43	3.74800e-08	1.000000	3.89709e-08	1.000000
rad68syn	3.16341e-08	1.000000	3.28925e-08	1.000000
rad68anti	2.07065e-08	1.000000	2.15301e-08	1.000000
rad31	1.93886e-08	1.000000	2.01599e-08	1.000000
rad42	1.92507e-08	1.000000	2.00165e-08	1.000000
rad61	1.10355e-08	1.000000	1.14744e-08	1.000000
rad40syn	1.02382e-08	1.000000	1.06455e-08	1.000000
rad27	6.08881e-09	1.000000	6.33101e-09	1.000000
rad40anti	5.94183e-09	1.000000	6.17818e-09	1.000000
rad41	3.10145e-09	1.000000	3.22482e-09	1.000000
rad5	1.91185e-10	1.000000	1.98791e-10	1.000000

1000000.00 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.64931e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.68518e-13 (0.284)
Formation of rad6	6.34764e-13 (0.352)	5.51975e-13 (0.335)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.381)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.370294	0.370294	0.404659	0.404659
Benzene+2-propynyl	0.348883	0.719177	0.381260	0.785919
Phenyl+Allene	0.0849219	0.804099	0.000000	0.785919
rad11	0.0487958	0.852895	0.0533242	0.839243
PhCH2CCH+H	0.0365850	0.889480	0.0399802	0.879224
C2H2+PhCH2	0.0306644	0.920144	0.0335102	0.912734
PhCHCCH2+H	0.0299920	0.950136	0.0327753	0.945509
Indene+H	0.0239376	0.974074	0.0261591	0.971668
PhCCH+CH3	0.00769490	0.981769	0.00840904	0.980077
rad7	0.00488545	0.986654	0.00533884	0.985416
PAH7+H	0.00210713	0.988761	0.00230268	0.987719
rad13	0.00166093	0.990422	0.00181507	0.989534
rad45	0.00152557	0.991948	0.00166715	0.991201
Ph+MeAc	0.00126037	0.993208	0.00137733	0.992578
rad9	0.00113593	0.994344	0.00124135	0.993820
rad21	0.00105140	0.995396	0.00114898	0.994969
rad23	0.000672304	0.996068	0.000734698	0.995703
rad22	0.000595929	0.996664	0.000651236	0.996354
PAH9+H	0.000474271	0.997138	0.000518285	0.996873

rad28	0.000453251	0.997591	0.000495315	0.997368
rad20	0.000407099	0.997998	0.000444879	0.997813
rad39	0.000357945	0.998356	0.000391163	0.998204
rad38	0.000230760	0.998587	0.000252175	0.998456
rad19anti	0.000196911	0.998784	0.000215185	0.998671
rad36	0.000148015	0.998932	0.000161751	0.998833
rad19syn	0.000144167	0.999076	0.000157546	0.998991
PhCCCH3+H	0.000117542	0.999194	0.000128451	0.999119
rad50	9.87061e-05	0.999292	0.000107866	0.999227
rad46	8.52442e-05	0.999378	9.31550e-05	0.999320
PhcycC3H3_A+H	8.20023e-05	0.999460	8.96121e-05	0.999410
rad33	8.12360e-05	0.999541	8.87749e-05	0.999499
rad35	7.14647e-05	0.999612	7.80967e-05	0.999577
rad18	6.37390e-05	0.999676	6.96540e-05	0.999646
rad54	5.79777e-05	0.999734	6.33583e-05	0.999710
rad25	4.92570e-05	0.999783	5.38282e-05	0.999764
rad51	3.28396e-05	0.999816	3.58873e-05	0.999799
rad24	1.87304e-05	0.999835	2.04687e-05	0.999820
rad3	1.62598e-05	0.999851	1.77688e-05	0.999838
PAH3+H	1.50377e-05	0.999866	1.64332e-05	0.999854
rad30	1.49660e-05	0.999881	1.63548e-05	0.999870
rad67	1.47040e-05	0.999896	1.60686e-05	0.999887
PAH1+H	1.32855e-05	0.999909	1.45185e-05	0.999901
rad4	1.30094e-05	0.999922	1.42167e-05	0.999915
PAH10+CH3	1.05999e-05	0.999933	1.15836e-05	0.999927
rad52	9.11368e-06	0.999942	9.95948e-06	0.999937
rad2	8.84158e-06	0.999951	9.66211e-06	0.999947
rad70	8.45039e-06	0.999959	9.23463e-06	0.999956
rad12	6.47904e-06	0.999966	7.08030e-06	0.999963
rad37	5.73971e-06	0.999971	6.27235e-06	0.999969
rad55	4.12110e-06	0.999976	4.50355e-06	0.999974
rad26	3.42225e-06	0.999979	3.73985e-06	0.999977
rad10	2.39838e-06	0.999981	2.62096e-06	0.999980
rad15	2.37083e-06	0.999984	2.59085e-06	0.999983
rad1	2.36844e-06	0.999986	2.58824e-06	0.999985
rad34	1.94620e-06	0.999988	2.12682e-06	0.999987
rad59	1.47061e-06	0.999989	1.60708e-06	0.999989
rad71	1.39422e-06	0.999991	1.52362e-06	0.999990
rad60syn	1.29968e-06	0.999992	1.42030e-06	0.999992
rad53	9.98521e-07	0.999993	1.09118e-06	0.999993
rad56	9.83545e-07	0.999994	1.07483e-06	0.999994
rad73	9.66088e-07	0.999995	1.05575e-06	0.999995
rad65	8.51153e-07	0.999996	9.30145e-07	0.999996
rad60anti	8.04370e-07	0.999997	8.79019e-07	0.999997
rad62	7.24628e-07	0.999998	7.91882e-07	0.999998
rad14	4.72871e-07	0.999998	5.16755e-07	0.999998
rad47	3.78867e-07	0.999998	4.14028e-07	0.999999
PAH8+H	2.97177e-07	0.999999	3.24755e-07	0.999999
rad8	2.90702e-07	0.999999	3.17680e-07	0.999999
rad64	2.17672e-07	0.999999	2.37873e-07	0.999999
rad58	1.47783e-07	0.999999	1.61497e-07	1.000000
rad68syn	1.10913e-07	0.999999	1.21206e-07	1.000000
rad43	7.37950e-08	1.000000	8.06434e-08	1.000000
rad68anti	7.24211e-08	1.000000	7.91418e-08	1.000000
rad42	5.49814e-08	1.000000	6.00838e-08	1.000000
rad72	4.96113e-08	1.000000	5.42155e-08	1.000000
rad40syn	3.77893e-08	1.000000	4.12963e-08	1.000000
rad31	3.67689e-08	1.000000	4.01811e-08	1.000000
rad40anti	2.19667e-08	1.000000	2.40054e-08	1.000000
rad27	2.11215e-08	1.000000	2.30816e-08	1.000000
rad61	1.99506e-08	1.000000	2.18021e-08	1.000000
rad41	5.95937e-09	1.000000	6.51242e-09	1.000000
rad5	3.42660e-10	1.000000	3.74460e-10	1.000000

1000000.00 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.54148e-12 (1.00)	2.17315e-12 (1.00)
Formation of rad11	7.22991e-13 (0.284)	5.57300e-13 (0.256)
Formation of rad6	8.84215e-13 (0.348)	6.81575e-13 (0.314)
H-abstraction	9.34273e-13 (0.368)	9.34273e-13 (0.430)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.367610	0.367610	0.429917	0.429917
rad6	0.256913	0.624523	0.300458	0.730375
Phenyl+Allene	0.144928	0.769451	0.000000	0.730375
PhCH2CCH+H	0.0552035	0.824654	0.0645602	0.794935
rad11	0.0417861	0.866440	0.0488685	0.843803

PhCHCCH2+H	0.0403264	0.906767	0.0471615	0.890965
C2H2+PhCH2	0.0329877	0.939755	0.0385788	0.929544
Indene+H	0.0245761	0.964331	0.0287415	0.958285
PhCCH+CH3	0.0121285	0.976459	0.0141842	0.972469
rad7	0.00697874	0.983438	0.00816159	0.980631
PAH7+H	0.00367081	0.987109	0.00429298	0.984924
Ph+MeAc	0.00202859	0.989137	0.00237242	0.987296
rad13	0.00201332	0.991151	0.00235456	0.989651
rad45	0.00151193	0.992663	0.00176819	0.991419
rad9	0.00148572	0.994148	0.00173754	0.993157
rad21	0.000859671	0.995008	0.00100538	0.994162
rad39	0.000585705	0.995594	0.000684978	0.994847
rad23	0.000542352	0.996136	0.000634274	0.995481
PAH9+H	0.000504215	0.996640	0.000589677	0.996071
rad22	0.000395721	0.997036	0.000462792	0.996534
rad28	0.000390111	0.997426	0.000456231	0.996990
rad19syn	0.000334144	0.997760	0.000390779	0.997381
rad20	0.000294244	0.998054	0.000344116	0.997725
rad19anti	0.000270160	0.998325	0.000315950	0.998041
rad38	0.000243748	0.998568	0.000285061	0.998326
PhcycC3H3_A+H	0.000215491	0.998784	0.000252015	0.998578
PhCCCH3+H	0.000167851	0.998952	0.000196301	0.998774
rad36	0.000146255	0.999098	0.000171044	0.998945
rad54	0.000126450	0.999224	0.000147882	0.999093
rad33	0.000105759	0.999330	0.000123684	0.999217
rad50	0.000103767	0.999434	0.000121355	0.999338
rad46	8.97418e-05	0.999524	0.000104952	0.999443
rad35	7.79857e-05	0.999602	9.12036e-05	0.999534
rad18	5.83318e-05	0.999660	6.82184e-05	0.999603
rad25	4.61671e-05	0.999706	5.39921e-05	0.999657
rad51	3.44938e-05	0.999741	4.03403e-05	0.999697
PAH1+H	2.96699e-05	0.999770	3.46987e-05	0.999732
PAH3+H	2.10246e-05	0.999791	2.45881e-05	0.999756
rad67	2.02995e-05	0.999812	2.37401e-05	0.999780
rad24	1.88030e-05	0.999830	2.19900e-05	0.999802
PAH10+CH3	1.87416e-05	0.999849	2.19182e-05	0.999824
rad30	1.77595e-05	0.999867	2.07696e-05	0.999845
rad3	1.65210e-05	0.999883	1.93211e-05	0.999864
rad70	1.51342e-05	0.999899	1.76993e-05	0.999882
rad4	1.31976e-05	0.999912	1.54344e-05	0.999897
rad2	9.85649e-06	0.999922	1.15271e-05	0.999909
rad37	9.81337e-06	0.999931	1.14767e-05	0.999920
rad52	9.57691e-06	0.999941	1.12001e-05	0.999931
rad12	9.29303e-06	0.999950	1.08681e-05	0.999942
rad55	9.27526e-06	0.999960	1.08473e-05	0.999953
rad15	6.54296e-06	0.999966	7.65194e-06	0.999961
rad10	4.58762e-06	0.999971	5.36519e-06	0.999966
rad26	4.00018e-06	0.999975	4.67818e-06	0.999971
rad34	3.69441e-06	0.999978	4.32058e-06	0.999975
rad1	2.62827e-06	0.999981	3.07374e-06	0.999978
rad56	2.55864e-06	0.999984	2.99231e-06	0.999981
rad53	2.49367e-06	0.999986	2.91633e-06	0.999984
rad59	2.02685e-06	0.999988	2.37039e-06	0.999986
rad60syn	1.70934e-06	0.999990	1.99906e-06	0.999988
rad71	1.46472e-06	0.999991	1.71298e-06	0.999990
rad62	1.40298e-06	0.999993	1.64077e-06	0.999992
rad60anti	1.06360e-06	0.999994	1.24388e-06	0.999993
rad73	1.01509e-06	0.999995	1.18715e-06	0.999994
rad65	9.00378e-07	0.999996	1.05299e-06	0.999995
rad14	7.63984e-07	0.999996	8.93468e-07	0.999996
PAH8+H	7.14190e-07	0.999997	8.35234e-07	0.999997
rad8	5.86849e-07	0.999998	6.86317e-07	0.999998
rad64	5.07774e-07	0.999998	5.93838e-07	0.999998
rad47	3.75763e-07	0.999999	4.39451e-07	0.999999
rad68syn	2.46001e-07	0.999999	2.87696e-07	0.999999
rad58	2.15440e-07	0.999999	2.51956e-07	0.999999
rad68anti	1.60346e-07	0.999999	1.87523e-07	0.999999
rad42	1.12288e-07	0.999999	1.31320e-07	1.000000
rad43	1.10178e-07	0.999999	1.28852e-07	1.000000
rad40syn	8.78029e-08	1.000000	1.02684e-07	1.000000
rad72	5.20993e-08	1.000000	6.09299e-08	1.000000
rad40anti	5.14552e-08	1.000000	6.01763e-08	1.000000
rad31	4.87433e-08	1.000000	5.70049e-08	1.000000
rad27	3.87801e-08	1.000000	4.53530e-08	1.000000
rad61	3.47369e-08	1.000000	4.06245e-08	1.000000
rad41	8.87414e-09	1.000000	1.03782e-08	1.000000
rad5	5.47158e-10	1.000000	6.39895e-10	1.000000

1000000.00 Pa, 1400.00000 K
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Rate constant	True (fraction)	Effective (fraction)
Total	3.47024e-12 (1.00)	2.80301e-12 (1.00)
Formation of rad11	9.43269e-13 (0.272)	6.48507e-13 (0.231)
Formation of rad6	1.19194e-12 (0.343)	8.19468e-13 (0.292)
H-abstraction	1.33503e-12 (0.385)	1.33503e-12 (0.476)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.476285	0.476285
Phenyl+Allene	0.192272	0.576981	0.00000	0.476285
rad6	0.180120	0.757102	0.222996	0.699282
PhCH2CCH+H	0.0672322	0.824334	0.0832360	0.782518
PhCHCCH2+H	0.0458884	0.870222	0.0568115	0.839329
rad11	0.0332319	0.903454	0.0411424	0.880471
C2H2+PhCH2	0.0326449	0.936099	0.0404157	0.920887
Indene+H	0.0235127	0.959612	0.0291096	0.949997
PhCCH+CH3	0.0145011	0.974113	0.0179529	0.967950
rad7	0.00780755	0.981920	0.00966609	0.977616
PAH7+H	0.00471649	0.986637	0.00583921	0.983455
Ph+MeAc	0.00248933	0.989126	0.00308189	0.986537
rad13	0.00185321	0.990979	0.00229435	0.988831
rad9	0.00162594	0.992605	0.00201299	0.990844
rad45	0.00138458	0.993990	0.00171416	0.992558
rad39	0.000714734	0.994705	0.000884868	0.993443
rad21	0.000703253	0.995408	0.000870654	0.994314
rad19syn	0.000524535	0.995932	0.000649396	0.994963
PAH9+H	0.000495034	0.996427	0.000612872	0.995576
rad23	0.000471961	0.996899	0.000584308	0.996161
PhcycC3H3_A+H	0.000368332	0.997268	0.000456010	0.996617
rad22	0.000331351	0.997599	0.000410226	0.997027
rad19anti	0.000314571	0.997914	0.000389452	0.997416
rad28	0.000297480	0.998211	0.000368292	0.997784
rad38	0.000237704	0.998449	0.000294286	0.998079
rad20	0.000222623	0.998671	0.000275616	0.998354
rad54	0.000198234	0.998870	0.000245422	0.998600
PhCCCH3+H	0.000184580	0.999054	0.000228517	0.998828
rad36	0.000133774	0.999188	0.000165618	0.998994
rad33	0.000103534	0.999292	0.000128180	0.999122
rad50	0.000100764	0.999392	0.000124749	0.999247
rad46	8.72366e-05	0.999480	0.000108003	0.999355
rad35	7.81955e-05	0.999558	9.68092e-05	0.999452
rad18	4.97620e-05	0.999607	6.16072e-05	0.999513
PAH1+H	4.75587e-05	0.999655	5.88797e-05	0.999572
rad25	4.24399e-05	0.999697	5.25422e-05	0.999625
rad51	3.34713e-05	0.999731	4.14388e-05	0.999666
PAH10+CH3	2.62719e-05	0.999757	3.25257e-05	0.999699
PAH3+H	2.50326e-05	0.999782	3.09913e-05	0.999730
rad67	2.37348e-05	0.999806	2.93846e-05	0.999759
rad70	2.01504e-05	0.999826	2.49469e-05	0.999784
rad30	1.88079e-05	0.999845	2.32849e-05	0.999807
rad24	1.72051e-05	0.999862	2.13006e-05	0.999829
rad15	1.54263e-05	0.999878	1.90983e-05	0.999848
rad55	1.49416e-05	0.999893	1.84983e-05	0.999866
rad3	1.30767e-05	0.999906	1.61894e-05	0.999882
rad37	1.26565e-05	0.999918	1.56693e-05	0.999898
rad12	1.06415e-05	0.999929	1.31746e-05	0.999911
rad4	1.04230e-05	0.999939	1.29041e-05	0.999924
rad52	9.29662e-06	0.999949	1.15096e-05	0.999936
rad2	8.24035e-06	0.999957	1.02019e-05	0.999946
rad10	6.39041e-06	0.999963	7.91155e-06	0.999954
rad34	5.08130e-06	0.999968	6.29086e-06	0.999960
rad56	4.71528e-06	0.999973	5.83769e-06	0.999966
rad53	4.41596e-06	0.999977	5.46716e-06	0.999971
rad26	4.21790e-06	0.999982	5.22193e-06	0.999977
rad59	2.38420e-06	0.999984	2.95174e-06	0.999980
rad1	2.19017e-06	0.999986	2.71152e-06	0.999982
rad62	2.02750e-06	0.999988	2.51013e-06	0.999985
rad60syn	1.94247e-06	0.999990	2.40486e-06	0.999987
rad71	1.42113e-06	0.999992	1.75941e-06	0.999989
rad60anti	1.21330e-06	0.999993	1.50211e-06	0.999990
PAH8+H	1.12422e-06	0.999994	1.39183e-06	0.999992
rad73	9.85118e-07	0.999995	1.21961e-06	0.999993
rad14	8.87668e-07	0.999996	1.09897e-06	0.999994
rad65	8.81380e-07	0.999997	1.09118e-06	0.999995
rad64	8.48572e-07	0.999998	1.05056e-06	0.999996
rad8	7.96962e-07	0.999998	9.86673e-07	0.999997
rad68syn	3.69014e-07	0.999999	4.56854e-07	0.999998
rad47	3.45101e-07	0.999999	4.27248e-07	0.999998
rad58	2.66772e-07	0.999999	3.30274e-07	0.999998

rad68anti	2.40287e-07	1.000000	2.97485e-07	0.999999
rad42	1.71414e-07	1.000000	2.12217e-07	0.999999
rad40syn	1.35526e-07	1.000000	1.67787e-07	0.999999
rad43	1.32214e-07	1.000000	1.63686e-07	0.999999
rad40anti	7.99109e-08	1.000000	9.89328e-08	0.999999
rad61	5.12748e-08	1.000000	6.34805e-08	0.999999
rad72	5.05197e-08	1.000000	6.25457e-08	1.000000
rad31	4.95423e-08	1.000000	6.13353e-08	1.000000
rad27	4.61095e-08	1.000000	5.70854e-08	1.000000
rad41	1.08416e-08	1.000000	1.34224e-08	1.000000
rad5	8.93439e-10	1.000000	1.10611e-09	1.000000

1000000.00 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.61271e-12 (1.00)	3.60045e-12 (1.00)
Formation of rad11	1.20217e-12 (0.261)	7.62179e-13 (0.212)
Formation of rad6	1.56360e-12 (0.339)	9.91325e-13 (0.275)
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.513)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.512976	0.512976
Phenyl+Allene	0.219452	0.619854	0.000000	0.512976
rad6	0.142147	0.762000	0.182111	0.695087
PhCH2CCH+H	0.0719098	0.833910	0.0921275	0.787214
PhCHCCH2+H	0.0471612	0.881071	0.0604207	0.847635
C2H2+PhCH2	0.0307587	0.911830	0.0394065	0.887041
rad11	0.0260877	0.937918	0.0334222	0.920464
Indene+H	0.0215696	0.959487	0.0276339	0.948098
PhCCH+CH3	0.0149650	0.974452	0.0191724	0.967270
rad7	0.00746499	0.981917	0.00956380	0.976834
PAH7+H	0.00513688	0.987054	0.00658111	0.983415
Ph+MeAc	0.00263937	0.989694	0.00338143	0.986796
rad9	0.00160485	0.991298	0.00205605	0.988852
rad13	0.00146331	0.992762	0.00187471	0.990727
rad45	0.00121187	0.993974	0.00155259	0.992280
rad39	0.000741954	0.994716	0.000950550	0.993230
rad19syn	0.000648345	0.995364	0.000830630	0.994061
rad21	0.000569853	0.995934	0.000730069	0.994791
PhcycC3H3_A+H	0.000482521	0.996416	0.000618185	0.995409
rad23	0.000472752	0.996889	0.000605664	0.996015
PAH9+H	0.000463813	0.997353	0.000594214	0.996609
rad22	0.000331616	0.997684	0.000424850	0.997034
rad19anti	0.000329731	0.998014	0.000422435	0.997456
rad54	0.000258096	0.998272	0.000330659	0.997787
rad28	0.000240082	0.998512	0.000307581	0.998094
rad38	0.000220851	0.998733	0.000282943	0.998377
PhCCCH3+H	0.000176960	0.998910	0.000226713	0.998604
rad20	0.000171614	0.999082	0.000219864	0.998824
rad36	0.000117034	0.999199	0.000149937	0.998974
rad50	9.33082e-05	0.999292	0.000119542	0.999093
rad33	8.62959e-05	0.999378	0.000110557	0.999204
rad46	8.08390e-05	0.999459	0.000103567	0.999308
rad35	7.43789e-05	0.999534	9.52902e-05	0.999403
PAH1+H	6.30141e-05	0.999597	8.07306e-05	0.999484
rad18	4.13000e-05	0.999638	5.29118e-05	0.999536
rad25	3.77553e-05	0.999676	4.83703e-05	0.999585
PAH10+CH3	3.11893e-05	0.999707	3.99581e-05	0.999625
rad51	3.09791e-05	0.999738	3.96888e-05	0.999665
rad15	2.88172e-05	0.999767	3.69192e-05	0.999701
PAH3+H	2.64321e-05	0.999793	3.38635e-05	0.999735
rad67	2.49043e-05	0.999818	3.19061e-05	0.999767
rad70	2.26283e-05	0.999841	2.89903e-05	0.999796
rad55	1.99268e-05	0.999861	2.55292e-05	0.999822
rad30	1.84667e-05	0.999879	2.36586e-05	0.999845
rad24	1.49628e-05	0.999894	1.91696e-05	0.999865
rad37	1.37503e-05	0.999908	1.76162e-05	0.999882
rad12	1.07425e-05	0.999919	1.37628e-05	0.999896
rad3	9.14662e-06	0.999928	1.17182e-05	0.999908
rad52	8.60687e-06	0.999936	1.10267e-05	0.999919
rad10	7.32564e-06	0.999944	9.38530e-06	0.999928
rad4	7.27012e-06	0.999951	9.31415e-06	0.999937
rad56	7.11902e-06	0.999958	9.12051e-06	0.999946
rad53	6.42061e-06	0.999964	8.22579e-06	0.999955
rad2	5.92630e-06	0.999970	7.59247e-06	0.999962
rad34	5.80928e-06	0.999976	7.44256e-06	0.999970
rad26	4.61399e-06	0.999981	5.91121e-06	0.999976
rad62	2.50589e-06	0.999983	3.21043e-06	0.999979

rad59	2.49810e-06	0.999986	3.20044e-06	0.999982
rad60syn	1.99229e-06	0.999988	2.55242e-06	0.999985
rad1	1.57033e-06	0.999989	2.01182e-06	0.999987
PAH8+H	1.38438e-06	0.999991	1.77360e-06	0.999988
rad71	1.31530e-06	0.999992	1.68510e-06	0.999990
rad60anti	1.24736e-06	0.999993	1.59805e-06	0.999992
rad64	1.16736e-06	0.999994	1.49557e-06	0.999993
rad73	9.11946e-07	0.999995	1.16834e-06	0.999994
rad8	8.69417e-07	0.999996	1.11385e-06	0.999995
rad14	8.48575e-07	0.999997	1.08715e-06	0.999997
rad65	8.24933e-07	0.999998	1.05686e-06	0.999998
rad68syn	4.42279e-07	0.999998	5.66629e-07	0.999998
rad47	3.03290e-07	0.999999	3.88561e-07	0.999999
rad58	2.88932e-07	0.999999	3.70165e-07	0.999999
rad68anti	2.87837e-07	0.999999	3.68763e-07	0.999999
rad42	2.24007e-07	0.999999	2.86987e-07	1.000000
rad40syn	1.65133e-07	1.000000	2.11560e-07	1.000000
rad43	1.42250e-07	1.000000	1.82244e-07	1.000000
rad40anti	9.77536e-08	1.000000	1.25237e-07	1.000000
rad61	6.53346e-08	1.000000	8.37034e-08	1.000000
rad72	4.67323e-08	1.000000	5.98709e-08	1.000000
rad31	4.39794e-08	1.000000	5.63443e-08	1.000000
rad27	4.30346e-08	1.000000	5.51336e-08	1.000000
rad41	1.20650e-08	1.000000	1.54570e-08	1.000000
rad5	1.65240e-09	1.000000	2.11697e-09	1.000000

1000000.00 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.22082e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.02997e-12 (0.166)
Formation of rad6	2.80256e-12 (0.325)	1.41488e-12 (0.227)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.607)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.606989	0.606989
Phenyl+Allene	0.278217	0.716332	0.000000	0.606989
PhCH2CCH+H	0.0834591	0.799791	0.115629	0.722619
rad6	0.0819015	0.881692	0.113471	0.836090
PhCHCCH2+H	0.0476960	0.929388	0.0660808	0.902171
C2H2+PhCH2	0.0227175	0.952106	0.0314741	0.933645
PhCCH+CH3	0.0134533	0.965559	0.0186390	0.952284
Indene+H	0.00897898	0.974538	0.0124400	0.964724
PAH7+H	0.00525007	0.979788	0.00727376	0.971998
PhcycC3H3_A+H	0.00369654	0.983485	0.00512140	0.977119
rad11	0.00368926	0.987174	0.00511130	0.982230
Ph+MeAc	0.00319762	0.990371	0.00443017	0.986660
rad19syn	0.00205796	0.992429	0.00285121	0.989512
rad7	0.00110894	0.993538	0.00153639	0.991048
rad39	0.00103249	0.994571	0.00143048	0.992478
rad54	0.000605651	0.995177	0.000839105	0.993318
rad50	0.000584142	0.995761	0.000809303	0.994127
PAH9+H	0.000486117	0.996247	0.000673494	0.994800
rad51	0.000469424	0.996716	0.000650370	0.995451
rad71	0.000410530	0.997127	0.000568773	0.996020
rad38	0.000393907	0.997521	0.000545742	0.996565
rad19anti	0.000216397	0.997737	0.000299809	0.996865
PAH1+H	0.000213544	0.997951	0.000295856	0.997161
rad22	0.000179718	0.998130	0.000248993	0.997410
rad46	0.000177171	0.998307	0.000245464	0.997655
PhCCCH3+H	0.000158264	0.998466	0.000219268	0.997875
rad28	0.000133198	0.998599	0.000184540	0.998059
rad73	0.000128190	0.998727	0.000177602	0.998237
rad13	0.000123074	0.998850	0.000170514	0.998407
rad23	0.000118675	0.998969	0.000164419	0.998572
PAH3+H	9.15721e-05	0.999060	0.000126869	0.998699
rad35	8.02586e-05	0.999141	0.000111195	0.998810
rad52	8.00091e-05	0.999221	0.000110849	0.998921
rad72	7.89876e-05	0.999300	0.000109434	0.999030
PAH10+CH3	7.83381e-05	0.999378	0.000108534	0.999139
rad56	7.05526e-05	0.999449	9.77480e-05	0.999236
rad55	6.30143e-05	0.999512	8.73034e-05	0.999324
rad70	5.47579e-05	0.999566	7.58648e-05	0.999400
rad67	5.31991e-05	0.999620	7.37052e-05	0.999473
rad9	5.28475e-05	0.999672	7.32179e-05	0.999546
rad21	5.01492e-05	0.999723	6.94796e-05	0.999616
rad53	4.70217e-05	0.999770	6.51466e-05	0.999681
PAH8+H	4.67977e-05	0.999816	6.48365e-05	0.999746

rad45	2.75242e-05	0.999844	3.81337e-05	0.999784
rad34	2.07228e-05	0.999865	2.87105e-05	0.999813
rad30	1.76246e-05	0.999882	2.44181e-05	0.999837
rad20	1.36535e-05	0.999896	1.89164e-05	0.999856
rad37	1.24206e-05	0.999908	1.72082e-05	0.999873
rad62	1.22306e-05	0.999921	1.69450e-05	0.999890
rad65	7.78515e-06	0.999928	1.07860e-05	0.999901
rad33	7.37261e-06	0.999936	1.02145e-05	0.999911
rad59	6.58333e-06	0.999942	9.12095e-06	0.999920
rad64	5.53551e-06	0.999948	7.66921e-06	0.999928
rad68syn	5.38521e-06	0.999953	7.46099e-06	0.999935
rad36	4.85183e-06	0.999958	6.72201e-06	0.999942
rad18	4.72698e-06	0.999963	6.54905e-06	0.999949
rad25	4.15360e-06	0.999967	5.75466e-06	0.999955
rad40syn	3.48718e-06	0.999970	4.83136e-06	0.999959
rad68anti	3.42834e-06	0.999974	4.74981e-06	0.999964
rad60syn	3.40236e-06	0.999977	4.71385e-06	0.999969
rad15	3.37164e-06	0.999981	4.67128e-06	0.999973
rad40anti	2.67117e-06	0.999983	3.70080e-06	0.999977
rad26	2.54399e-06	0.999986	3.52460e-06	0.999981
rad60anti	2.48198e-06	0.999988	3.43868e-06	0.999984
rad42	2.47237e-06	0.999991	3.42537e-06	0.999988
rad58	2.17639e-06	0.999993	3.01530e-06	0.999991
rad47	1.74980e-06	0.999995	2.42428e-06	0.999993
rad24	1.11177e-06	0.999996	1.54032e-06	0.999995
rad10	8.98809e-07	0.999997	1.24527e-06	0.999996
rad12	5.88536e-07	0.999997	8.15391e-07	0.999997
rad61	5.66319e-07	0.999998	7.84614e-07	0.999997
rad43	4.27720e-07	0.999998	5.92589e-07	0.999998
rad3	3.42738e-07	0.999999	4.74851e-07	0.999998
rad2	2.35847e-07	0.999999	3.26757e-07	0.999999
rad8	2.31635e-07	0.999999	3.20921e-07	0.999999
rad4	2.12166e-07	0.999999	2.93947e-07	0.999999
rad14	1.03338e-07	0.999999	1.43171e-07	1.000000
rad41	9.03590e-08	1.000000	1.25188e-07	1.000000
rad1	6.46994e-08	1.000000	8.96386e-08	1.000000
rad5	5.00562e-09	1.000000	6.93506e-09	1.000000
rad27	4.11906e-09	1.000000	5.70679e-09	1.000000

1000000.00 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.44111e-11 (1.00)	9.93794e-12 (1.00)
Formation of rad11	3.16882e-12 (0.220)	1.32842e-12 (0.134)
Formation of rad6	4.53302e-12 (0.315)	1.90031e-12 (0.191)
H-abstraction	6.70922e-12 (0.466)	6.70922e-12 (0.675)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.675111	0.675111
Phenyl+Allene	0.310395	0.775955	0.000000	0.675111
PhCH2CCH+H	0.0812097	0.857165	0.117762	0.792873
PhCHCCH2+H	0.0450582	0.902223	0.0653391	0.858212
rad6	0.0350923	0.937315	0.0508874	0.909100
C2H2+PhCH2	0.0194831	0.956798	0.0282524	0.937352
PhCCH+CH3	0.0125870	0.969385	0.0182525	0.955605
Indene+H	0.00749578	0.976881	0.0108697	0.966474
PAH7+H	0.00497384	0.981855	0.00721260	0.973687
PhcycC3H3_A+H	0.00461925	0.986474	0.00669840	0.980385
Ph+MeAc	0.00336179	0.989836	0.00487493	0.985260
rad19syn	0.00232849	0.992164	0.00337654	0.988637
rad11	0.00149534	0.993660	0.00216840	0.990805
rad39	0.000851261	0.994511	0.00123441	0.992039
rad54	0.000763292	0.995274	0.00110685	0.993146
rad7	0.000544856	0.995819	0.000790097	0.993936
rad50	0.000463489	0.996283	0.000672107	0.994609
PAH9+H	0.000436804	0.996719	0.000633410	0.995242
rad51	0.000371525	0.997091	0.000538750	0.995781
rad71	0.000321623	0.997413	0.000466388	0.996247
rad38	0.000320400	0.997733	0.000464614	0.996712
PAH1+H	0.000312687	0.998046	0.000453428	0.997165
rad19anti	0.000215584	0.998261	0.000312620	0.997478
rad46	0.000142570	0.998404	0.000206742	0.997685
PhCCCH3+H	0.000135204	0.998539	0.000196060	0.997881
rad56	0.000133282	0.998672	0.000193273	0.998074
rad73	0.000100594	0.998773	0.000145872	0.998220
rad23	9.68624e-05	0.998870	0.000140460	0.998360
rad55	8.45056e-05	0.998954	0.000122542	0.998483
rad28	8.35265e-05	0.999038	0.000121122	0.998604

PAH3+H	8.09430e-05	0.999119	0.000117376	0.998721
rad53	8.08260e-05	0.999199	0.000117206	0.998838
PAH10+CH3	7.55666e-05	0.999275	0.000109579	0.998948
rad35	7.25539e-05	0.999348	0.000105211	0.999053
rad22	7.07988e-05	0.999418	0.000102666	0.999156
rad13	6.75318e-05	0.999486	9.79283e-05	0.999254
rad52	6.35208e-05	0.999549	9.21115e-05	0.999346
rad72	6.17331e-05	0.999611	8.95192e-05	0.999435
rad70	5.20179e-05	0.999663	7.54314e-05	0.999511
rad67	4.90233e-05	0.999712	7.10889e-05	0.999582
rad9	4.86940e-05	0.999761	7.06114e-05	0.999653
PAH8+H	4.09766e-05	0.999802	5.94202e-05	0.999712
rad21	2.93426e-05	0.999831	4.25497e-05	0.999755
rad62	2.58021e-05	0.999857	3.74158e-05	0.999792
rad45	2.09539e-05	0.999878	3.03853e-05	0.999822
rad34	1.91627e-05	0.999897	2.77879e-05	0.999850
rad30	1.57375e-05	0.999913	2.28210e-05	0.999873
rad37	1.04692e-05	0.999923	1.51814e-05	0.999888
rad64	7.87192e-06	0.999931	1.14151e-05	0.999900
rad20	7.26175e-06	0.999939	1.05303e-05	0.999910
rad65	6.92014e-06	0.999945	1.00349e-05	0.999920
rad42	6.01998e-06	0.999951	8.72957e-06	0.999929
rad59	5.85276e-06	0.999957	8.48707e-06	0.999937
rad68syn	4.69310e-06	0.999962	6.80548e-06	0.999944
rad33	4.57685e-06	0.999967	6.63690e-06	0.999951
rad36	3.71329e-06	0.999970	5.38468e-06	0.999956
rad40syn	3.09115e-06	0.999973	4.48249e-06	0.999961
rad15	3.08279e-06	0.999976	4.47037e-06	0.999965
rad60syn	3.05225e-06	0.999980	4.42609e-06	0.999970
rad68anti	2.98883e-06	0.999982	4.33412e-06	0.999974
rad25	2.59947e-06	0.999985	3.76949e-06	0.999978
rad40anti	2.38180e-06	0.999987	3.45386e-06	0.999981
rad60anti	2.22404e-06	0.999990	3.22509e-06	0.999984
rad18	2.08245e-06	0.999992	3.01977e-06	0.999987
rad58	1.90071e-06	0.999994	2.75622e-06	0.999990
rad26	1.38824e-06	0.999995	2.01309e-06	0.999992
rad47	1.25351e-06	0.999996	1.81771e-06	0.999994
rad24	7.79235e-07	0.999997	1.12997e-06	0.999995
rad43	6.59707e-07	0.999998	9.56642e-07	0.999996
rad61	5.94110e-07	0.999998	8.61524e-07	0.999997
rad12	5.84014e-07	0.999999	8.46885e-07	0.999998
rad10	4.78244e-07	0.999999	6.93505e-07	0.999998
rad8	1.96266e-07	1.000000	2.84606e-07	0.999999
rad3	1.86988e-07	1.000000	2.71152e-07	0.999999
rad41	1.62333e-07	1.000000	2.35401e-07	0.999999
rad2	1.22716e-07	1.000000	1.77952e-07	0.999999
rad4	1.14905e-07	1.000000	1.66624e-07	1.000000
rad14	7.41236e-08	1.000000	1.07487e-07	1.000000
rad1	3.32001e-08	1.000000	4.81437e-08	1.000000
rad5	8.09120e-09	1.000000	1.17331e-08	1.000000
rad27	2.85224e-09	1.000000	4.13603e-09	1.000000

1000000.00 Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.23655e-11 (1.00)	1.54550e-11 (1.00)
Formation of rad11	4.62280e-12 (0.207)	1.83229e-12 (0.119)
Formation of rad6	6.82518e-12 (0.305)	2.70521e-12 (0.175)
H-abstraction	1.09175e-11 (0.488)	1.09175e-11 (0.706)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.706405	0.706405
Phenyl+Allene	0.308980	0.797120	0.000000	0.706405
PhCH2CCH+H	0.0838278	0.880948	0.121310	0.827716
PhCHCCH2+H	0.0443778	0.925326	0.0642209	0.891937
rad6	0.0178749	0.943201	0.0258675	0.917804
C2H2+PhCH2	0.0173207	0.960521	0.0250654	0.942869
PhCCH+CH3	0.0122501	0.972772	0.0177276	0.960597
Indene+H	0.00641734	0.979189	0.00928681	0.969884
PAH7+H	0.00483914	0.984028	0.00700291	0.976887
PhcycC3H3_A+H	0.00429738	0.988325	0.00621889	0.983106
Ph+MeAc	0.00331360	0.991639	0.00479522	0.987901
rad19syn	0.00216873	0.993808	0.00313847	0.991039
rad39	0.000760352	0.994568	0.00110033	0.992140
rad54	0.000744311	0.995312	0.00107712	0.993217
rad11	0.000707651	0.996020	0.00102406	0.994241
PAH9+H	0.000395057	0.996415	0.000571702	0.994813
rad7	0.000387702	0.996803	0.000561056	0.995374

rad50	0.000369994	0.997173	0.000535432	0.995909
PAH1+H	0.000323767	0.997497	0.000468536	0.996378
rad51	0.000295897	0.997792	0.000428205	0.996806
rad38	0.000265018	0.998057	0.000383517	0.997189
rad71	0.000253890	0.998311	0.000367413	0.997557
rad19anti	0.000234791	0.998546	0.000339774	0.997896
rad56	0.000133415	0.998680	0.000193069	0.998090
PhCCCH3+H	0.000128679	0.998808	0.000186216	0.998276
rad46	0.000116204	0.998924	0.000168164	0.998444
rad55	8.23792e-05	0.999007	0.000119214	0.998563
rad53	7.99576e-05	0.999087	0.000115710	0.998679
rad73	7.94447e-05	0.999166	0.000114968	0.998794
PAH10+CH3	7.06484e-05	0.999237	0.000102238	0.998896
PAH3+H	6.86307e-05	0.999305	9.93181e-05	0.998995
rad35	6.63509e-05	0.999372	9.60187e-05	0.999091
rad23	5.55747e-05	0.999427	8.04241e-05	0.999172
rad70	5.24892e-05	0.999480	7.59594e-05	0.999248
rad52	5.07684e-05	0.999531	7.34688e-05	0.999321
rad13	4.93193e-05	0.999580	7.13717e-05	0.999393
rad28	4.89188e-05	0.999629	7.07921e-05	0.999463
rad72	4.87175e-05	0.999678	7.05009e-05	0.999534
rad67	4.69174e-05	0.999725	6.78961e-05	0.999602
rad9	4.25218e-05	0.999767	6.15348e-05	0.999663
PAH8+H	3.34151e-05	0.999800	4.83562e-05	0.999712
rad22	2.86242e-05	0.999829	4.14230e-05	0.999753
rad62	2.85392e-05	0.999858	4.13000e-05	0.999794
rad34	1.86508e-05	0.999876	2.69903e-05	0.999821
rad21	1.75540e-05	0.999894	2.54030e-05	0.999847
rad45	1.60449e-05	0.999910	2.32191e-05	0.999870
rad30	1.42985e-05	0.999924	2.06920e-05	0.999891
rad37	1.01650e-05	0.999934	1.47101e-05	0.999905
rad64	7.98834e-06	0.999942	1.15602e-05	0.999917
rad42	6.84741e-06	0.999949	9.90917e-06	0.999927
rad65	6.41314e-06	0.999956	9.28070e-06	0.999936
rad59	5.07646e-06	0.999961	7.34633e-06	0.999944
rad20	4.05550e-06	0.999965	5.86887e-06	0.999949
rad68syn	4.03336e-06	0.999969	5.83684e-06	0.999955
rad33	3.66117e-06	0.999972	5.29821e-06	0.999961
rad36	2.85980e-06	0.999975	4.13851e-06	0.999965
rad15	2.82155e-06	0.999978	4.08317e-06	0.999969
rad60syn	2.73246e-06	0.999981	3.95425e-06	0.999973
rad40syn	2.59277e-06	0.999983	3.75208e-06	0.999976
rad68anti	2.57122e-06	0.999986	3.72090e-06	0.999980
rad40anti	1.98832e-06	0.999988	2.87738e-06	0.999983
rad60anti	1.98277e-06	0.999990	2.86933e-06	0.999986
rad25	1.67593e-06	0.999992	2.42530e-06	0.999988
rad58	1.51468e-06	0.999993	2.19195e-06	0.999991
rad18	1.07171e-06	0.999994	1.55091e-06	0.999992
rad26	1.03962e-06	0.999995	1.50447e-06	0.999994
rad47	9.13081e-07	0.999996	1.32135e-06	0.999995
rad43	6.89818e-07	0.999997	9.98260e-07	0.999996
rad12	5.95621e-07	0.999997	8.61944e-07	0.999997
rad24	5.61894e-07	0.999998	8.13140e-07	0.999998
rad61	5.48023e-07	0.999999	7.93061e-07	0.999998
rad10	3.90791e-07	0.999999	5.65528e-07	0.999999
rad8	1.79444e-07	0.999999	2.59680e-07	0.999999
rad41	1.74623e-07	0.999999	2.52703e-07	0.999999
rad3	1.33875e-07	0.999999	1.93736e-07	1.000000
rad2	8.25435e-08	1.000000	1.19452e-07	1.000000
rad4	8.13867e-08	1.000000	1.17778e-07	1.000000
rad14	6.26885e-08	1.000000	9.07187e-08	1.000000
rad1	2.18345e-08	1.000000	3.15975e-08	1.000000
rad5	9.06468e-09	1.000000	1.31178e-08	1.000000
rad27	2.39960e-09	1.000000	3.47255e-09	1.000000

1000000.00 Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.28090e-11 (1.00)	2.29417e-11 (1.00)
Formation of rad11	6.43164e-12 (0.196)	2.50715e-12 (0.109)
Formation of rad6	9.73932e-12 (0.297)	3.79653e-12 (0.165)
H-abstraction	1.66381e-11 (0.507)	1.66381e-11 (0.725)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.725231	0.725231
Phenyl+Allene	0.300749	0.807867	0.000000	0.725231
PhCH2CCH+H	0.0865204	0.894388	0.123733	0.848964
PhCHCCH2+H	0.0434843	0.937872	0.0621868	0.911151

C2H2+PhCH2	0.0156809	0.953553	0.0224253	0.933576
PhCCH+CH3	0.0119607	0.965514	0.0171050	0.950681
rad6	0.0104318	0.975946	0.0149186	0.965600
Indene+H	0.00543288	0.981378	0.00776959	0.973369
PAH7+H	0.00478586	0.986164	0.00684428	0.980214
PhcycC3H3_A+H	0.00363806	0.989802	0.00520278	0.985416
Ph+MeAc	0.00318489	0.992987	0.00455471	0.989971
rad19syn	0.00195567	0.994943	0.00279679	0.992768
rad54	0.000719464	0.995662	0.00102890	0.993797
rad39	0.000690192	0.996353	0.000987047	0.994784
rad11	0.000355443	0.996708	0.000508320	0.995292
PAH9+H	0.000331967	0.997040	0.000474746	0.995767
rad50	0.000289533	0.997330	0.000414060	0.996181
rad7	0.000281001	0.997611	0.000401861	0.996583
PAH1+H	0.000280992	0.997892	0.000401847	0.996985
rad19anti	0.000249329	0.998141	0.000356565	0.997341
rad51	0.000228294	0.998369	0.000326483	0.997668
rad38	0.000219075	0.998588	0.000313300	0.997981
rad71	0.000191783	0.998780	0.000274269	0.998255
PhCCCH3+H	0.000124840	0.998905	0.000178534	0.998434
rad56	0.000110930	0.999016	0.000158641	0.998593
rad46	9.43750e-05	0.999110	0.000134966	0.998728
rad55	7.79960e-05	0.999188	0.000111542	0.998839
rad53	6.88881e-05	0.999257	9.85171e-05	0.998938
PAH10+CH3	6.66075e-05	0.999324	9.52553e-05	0.999033
PAH3+H	6.17743e-05	0.999385	8.83435e-05	0.999121
rad73	6.01572e-05	0.999446	8.60307e-05	0.999207
rad35	5.87618e-05	0.999504	8.40351e-05	0.999291
rad70	5.54758e-05	0.999560	7.93357e-05	0.999371
rad67	4.59299e-05	0.999606	6.56844e-05	0.999436
rad52	3.95145e-05	0.999645	5.65096e-05	0.999493
rad72	3.67191e-05	0.999682	5.25119e-05	0.999545
rad13	3.64039e-05	0.999718	5.20610e-05	0.999597
rad23	3.48731e-05	0.999753	4.98720e-05	0.999647
rad9	3.29428e-05	0.999786	4.71116e-05	0.999694
rad28	3.11791e-05	0.999817	4.45892e-05	0.999739
PAH8+H	2.71655e-05	0.999845	3.88493e-05	0.999778
rad62	2.26382e-05	0.999867	3.23749e-05	0.999810
rad34	1.94272e-05	0.999887	2.77827e-05	0.999838
rad22	1.34978e-05	0.999900	1.93032e-05	0.999857
rad30	1.32678e-05	0.999913	1.89743e-05	0.999876
rad45	1.19380e-05	0.999925	1.70726e-05	0.999893
rad21	1.05837e-05	0.999936	1.51358e-05	0.999908
rad37	1.03853e-05	0.999946	1.48519e-05	0.999923
rad64	7.00779e-06	0.999953	1.00218e-05	0.999933
rad42	5.27280e-06	0.999959	7.54062e-06	0.999941
rad65	5.14548e-06	0.999964	7.35856e-06	0.999948
rad59	4.67373e-06	0.999968	6.68389e-06	0.999955
rad68syn	3.73667e-06	0.999972	5.34382e-06	0.999960
rad33	2.94981e-06	0.999975	4.21850e-06	0.999964
rad60syn	2.56718e-06	0.999978	3.67133e-06	0.999968
rad68anti	2.38507e-06	0.999980	3.41090e-06	0.999972
rad20	2.35921e-06	0.999982	3.37389e-06	0.999975
rad15	2.30490e-06	0.999985	3.29624e-06	0.999978
rad40syn	2.22083e-06	0.999987	3.17600e-06	0.999981
rad36	2.13971e-06	0.999989	3.05999e-06	0.999984
rad60anti	1.85886e-06	0.999991	2.65835e-06	0.999987
rad40anti	1.66526e-06	0.999993	2.38149e-06	0.999989
rad58	1.25782e-06	0.999994	1.79882e-06	0.999991
rad25	1.07917e-06	0.999995	1.54333e-06	0.999993
rad26	8.17345e-07	0.999996	1.16888e-06	0.999994
rad47	6.50042e-07	0.999996	9.29623e-07	0.999995
rad18	5.85238e-07	0.999997	8.36949e-07	0.999996
rad43	5.80294e-07	0.999998	8.29877e-07	0.999997
rad12	5.50810e-07	0.999998	7.87713e-07	0.999997
rad61	4.70031e-07	0.999999	6.72192e-07	0.999998
rad24	4.06639e-07	0.999999	5.81532e-07	0.999999
rad10	3.22237e-07	0.999999	4.60832e-07	0.999999
rad8	1.66778e-07	1.000000	2.38510e-07	0.999999
rad41	1.39210e-07	1.000000	1.99085e-07	1.000000
rad3	9.73387e-08	1.000000	1.39204e-07	1.000000
rad4	5.85770e-08	1.000000	8.37713e-08	1.000000
rad2	5.64734e-08	1.000000	8.07626e-08	1.000000
rad14	5.13632e-08	1.000000	7.34546e-08	1.000000
rad1	1.44768e-08	1.000000	2.07033e-08	1.000000
rad5	8.94131e-09	1.000000	1.27870e-08	1.000000
rad27	2.01960e-09	1.000000	2.88823e-09	1.000000

1000000.00 Pa, 2750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.60596e-11 (1.00)	3.25072e-11 (1.00)
Formation of rad11	8.62280e-12 (0.187)	3.29989e-12 (0.102)
Formation of rad6	1.33313e-11 (0.289)	5.10181e-12 (0.157)
H-abstraction	2.41055e-11 (0.523)	2.41055e-11 (0.742)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.741543	0.741543
Phenyl+Allene	0.294236	0.817591	0.00000	0.741543
PhCH2CCH+H	0.0872108	0.904802	0.123569	0.865113
PhCHCCH2+H	0.0418274	0.946629	0.0592654	0.924378
C2H2+PhCH2	0.0143727	0.961002	0.0203646	0.944743
PhCCH+CH3	0.0114016	0.972403	0.0161550	0.960898
rad6	0.00605239	0.978456	0.00857567	0.969473
PAH7+H	0.00465354	0.983109	0.00659361	0.976067
Indene+H	0.00449073	0.987600	0.00636294	0.982430
PhcycC3H3_A+H	0.00323752	0.990837	0.00458724	0.987017
Ph+MeAc	0.00304912	0.993887	0.00432031	0.991337
rad19syn	0.00184373	0.995730	0.00261238	0.993950
rad54	0.000729453	0.996460	0.00103356	0.994983
rad39	0.000612075	0.997072	0.000867246	0.995851
PAH9+H	0.000273252	0.997345	0.000387170	0.996238
rad19anti	0.000247906	0.997593	0.000351258	0.996589
PAH1+H	0.000247188	0.997840	0.000350242	0.996939
rad50	0.000225191	0.998065	0.000319075	0.997258
rad7	0.000191483	0.998257	0.000271312	0.997530
rad11	0.000186211	0.998443	0.000263843	0.997793
rad38	0.000181636	0.998625	0.000257360	0.998051
rad51	0.000173111	0.998798	0.000245281	0.998296
rad71	0.000139240	0.998937	0.000197290	0.998493
PhCCCH3+H	0.000118167	0.999055	0.000167432	0.998661
rad56	9.91427e-05	0.999154	0.000140476	0.998801
rad55	7.83748e-05	0.999233	0.000111049	0.998912
rad46	7.69267e-05	0.999310	0.000108998	0.999021
rad53	6.41951e-05	0.999374	9.09581e-05	0.999112
PAH10+CH3	6.37547e-05	0.999438	9.03342e-05	0.999203
PAH3+H	6.07284e-05	0.999498	8.60464e-05	0.999289
rad70	5.95969e-05	0.999558	8.44432e-05	0.999373
rad35	5.20902e-05	0.999610	7.38067e-05	0.999447
rad67	4.54461e-05	0.999655	6.43929e-05	0.999511
rad73	4.39799e-05	0.999699	6.23152e-05	0.999574
rad52	3.04088e-05	0.999730	4.30863e-05	0.999617
rad72	2.64522e-05	0.999756	3.74801e-05	0.999654
PAH8+H	2.56213e-05	0.999782	3.63028e-05	0.999690
rad13	2.53767e-05	0.999807	3.59562e-05	0.999726
rad9	2.29834e-05	0.999830	3.25653e-05	0.999759
rad23	2.22911e-05	0.999853	3.15844e-05	0.999791
rad34	2.11649e-05	0.999874	2.99885e-05	0.999821
rad28	1.92785e-05	0.999893	2.73158e-05	0.999848
rad62	1.72759e-05	0.999910	2.44782e-05	0.999872
rad30	1.24142e-05	0.999923	1.75897e-05	0.999890
rad37	1.01960e-05	0.999933	1.44468e-05	0.999904
rad45	8.50459e-06	0.999941	1.20501e-05	0.999916
rad22	6.80402e-06	0.999948	9.64064e-06	0.999926
rad21	6.45597e-06	0.999955	9.14750e-06	0.999935
rad64	6.32914e-06	0.999961	8.96777e-06	0.999944
rad59	4.62134e-06	0.999966	6.54800e-06	0.999951
rad68syn	3.95425e-06	0.999970	5.60280e-06	0.999956
rad65	3.88601e-06	0.999973	5.50611e-06	0.999962
rad42	3.80175e-06	0.999977	5.38670e-06	0.999967
rad68anti	2.52541e-06	0.999980	3.57828e-06	0.999971
rad60syn	2.51745e-06	0.999982	3.56698e-06	0.999974
rad33	2.23014e-06	0.999984	3.15989e-06	0.999978
rad40syn	2.19847e-06	0.999987	3.11502e-06	0.999981
rad60anti	1.82631e-06	0.999988	2.58772e-06	0.999983
rad15	1.68702e-06	0.999990	2.39035e-06	0.999986
rad40anti	1.61008e-06	0.999992	2.28132e-06	0.999988
rad36	1.53180e-06	0.999993	2.17040e-06	0.999990
rad20	1.43304e-06	0.999995	2.03048e-06	0.999992
rad58	1.18838e-06	0.999996	1.68382e-06	0.999994
rad25	6.96212e-07	0.999997	9.86461e-07	0.999995
rad26	5.83171e-07	0.999997	8.26298e-07	0.999996
rad43	4.89710e-07	0.999998	6.93873e-07	0.999996
rad12	4.58837e-07	0.999998	6.50127e-07	0.999997
rad47	4.57452e-07	0.999999	6.48165e-07	0.999998
rad61	4.12066e-07	0.999999	5.83856e-07	0.999998
rad18	3.32653e-07	0.999999	4.71337e-07	0.999999
rad24	2.92231e-07	1.000000	4.14063e-07	0.999999

rad10	2.40776e-07	1.000000	3.41157e-07	0.999999
rad8	1.53054e-07	1.000000	2.16863e-07	1.000000
rad41	1.08530e-07	1.000000	1.53776e-07	1.000000
rad3	6.72232e-08	1.000000	9.52487e-08	1.000000
rad4	4.02195e-08	1.000000	5.69871e-08	1.000000
rad14	4.01283e-08	1.000000	5.68579e-08	1.000000
rad2	3.70065e-08	1.000000	5.24346e-08	1.000000
rad1	9.18529e-09	1.000000	1.30147e-08	1.000000
rad5	8.05378e-09	1.000000	1.14115e-08	1.000000
rad27	1.62400e-09	1.000000	2.30105e-09	1.000000

1000000.00 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.43665e-11 (1.00)
Formation of rad11	1.12221e-11 (0.180)	4.20313e-12 (0.0947)
Formation of rad6	1.76534e-11 (0.283)	6.61195e-12 (0.149)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.756)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.756233	0.756233
Phenyl+Allene	0.289305	0.826756	0.000000	0.756233
PhCH2CCH+H	0.0862496	0.913006	0.121360	0.877593
PhCHCCH2+H	0.0397849	0.952791	0.0559803	0.933573
C2H2+PhCH2	0.0133776	0.966168	0.0188233	0.952396
PhCCH+CH3	0.0106547	0.976823	0.0149919	0.967388
PAH7+H	0.00443532	0.981258	0.00624082	0.973629
Indene+H	0.00364184	0.984900	0.00512432	0.978753
rad6	0.00343182	0.988332	0.00482883	0.983582
PhcycC3H3_A+H	0.00315491	0.991487	0.00443919	0.988021
Ph+MeAc	0.00292808	0.994415	0.00412002	0.992141
rad19syn	0.00182785	0.996243	0.00257193	0.994713
rad54	0.000760578	0.997003	0.00107019	0.995783
rad39	0.000532579	0.997536	0.000749378	0.996533
PAH1+H	0.000233849	0.997770	0.000329044	0.996862
rad19anti	0.000233165	0.998003	0.000328081	0.997190
PAH9+H	0.000226640	0.998229	0.000318901	0.997509
rad50	0.000178636	0.998408	0.000251353	0.997760
rad38	0.000152298	0.998560	0.000214295	0.997975
rad51	0.000133079	0.998693	0.000187253	0.998162
rad7	0.000124618	0.998818	0.000175347	0.998337
PhCCCH3+H	0.000109548	0.998928	0.000154142	0.998491
rad56	0.000101749	0.999029	0.000143168	0.998634
rad11	0.000101698	0.999131	0.000143096	0.998778
rad71	9.98980e-05	0.999231	0.000140563	0.998918
rad55	8.23119e-05	0.999313	0.000115819	0.999034
rad53	6.70053e-05	0.999380	9.42812e-05	0.999128
rad70	6.38137e-05	0.999444	8.97903e-05	0.999218
rad46	6.37429e-05	0.999508	8.96906e-05	0.999308
PAH3+H	6.30593e-05	0.999571	8.87289e-05	0.999396
PAH10+CH3	6.17424e-05	0.999633	8.68763e-05	0.999483
rad35	4.68825e-05	0.999680	6.59670e-05	0.999549
rad67	4.52350e-05	0.999725	6.36490e-05	0.999613
rad73	3.19852e-05	0.999757	4.50057e-05	0.999658
PAH8+H	2.87077e-05	0.999785	4.03939e-05	0.999698
rad52	2.38127e-05	0.999809	3.35062e-05	0.999732
rad34	2.33590e-05	0.999833	3.28678e-05	0.999765
rad72	1.86529e-05	0.999851	2.62459e-05	0.999791
rad13	1.69891e-05	0.999868	2.39050e-05	0.999815
rad9	1.49351e-05	0.999883	2.10148e-05	0.999836
rad62	1.44388e-05	0.999898	2.03165e-05	0.999856
rad23	1.40102e-05	0.999912	1.97134e-05	0.999876
rad30	1.16280e-05	0.999923	1.63614e-05	0.999892
rad28	1.13756e-05	0.999935	1.60064e-05	0.999908
rad37	9.53077e-06	0.999944	1.34105e-05	0.999922
rad64	6.17623e-06	0.999950	8.69043e-06	0.999930
rad45	5.84250e-06	0.999956	8.22082e-06	0.999939
rad59	4.75375e-06	0.999961	6.68886e-06	0.999945
rad68syn	4.58116e-06	0.999966	6.44602e-06	0.999952
rad21	4.01764e-06	0.999970	5.65312e-06	0.999957
rad22	3.58460e-06	0.999973	5.04380e-06	0.999962
rad42	2.99557e-06	0.999976	4.21500e-06	0.999967
rad65	2.95816e-06	0.999979	4.16234e-06	0.999971
rad68anti	2.92510e-06	0.999982	4.11583e-06	0.999975
rad60syn	2.51792e-06	0.999985	3.54291e-06	0.999978
rad40syn	2.50085e-06	0.999987	3.51890e-06	0.999982
rad60anti	1.83498e-06	0.999989	2.58195e-06	0.999985
rad40anti	1.81387e-06	0.999991	2.55224e-06	0.999987

rad33	1.60740e-06	0.999992	2.26173e-06	0.999989
rad58	1.24842e-06	0.999994	1.75662e-06	0.999991
rad15	1.14421e-06	0.999995	1.60999e-06	0.999993
rad36	1.05664e-06	0.999996	1.48677e-06	0.999994
rad20	9.12063e-07	0.999997	1.28334e-06	0.999995
rad25	4.54741e-07	0.999997	6.39854e-07	0.999996
rad43	4.47027e-07	0.999998	6.28999e-07	0.999997
rad61	3.86439e-07	0.999998	5.43749e-07	0.999997
rad26	3.81703e-07	0.999998	5.37084e-07	0.999998
rad12	3.55117e-07	0.999999	4.99676e-07	0.999998
rad47	3.27956e-07	0.999999	4.61458e-07	0.999999
rad24	2.08943e-07	0.999999	2.93997e-07	0.999999
rad18	1.96295e-07	0.999999	2.76202e-07	0.999999
rad10	1.65906e-07	1.000000	2.33442e-07	1.000000
rad8	1.38584e-07	1.000000	1.94997e-07	1.000000
rad41	9.34260e-08	1.000000	1.31457e-07	1.000000
rad3	4.47671e-08	1.000000	6.29906e-08	1.000000
rad14	3.08372e-08	1.000000	4.33902e-08	1.000000
rad4	2.67906e-08	1.000000	3.76963e-08	1.000000
rad2	2.35015e-08	1.000000	3.30684e-08	1.000000
rad5	6.84762e-09	1.000000	9.63510e-09	1.000000
rad1	5.66927e-09	1.000000	7.97707e-09	1.000000
rad27	1.26502e-09	1.000000	1.77997e-09	1.000000

1000000.00 Pa, 3250.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	8.22129e-11	(1.00)	5.87789e-11	(1.00)
Formation of rad11	1.42538e-11	(0.173)	5.22824e-12	(0.0889)
Formation of rad6	2.27549e-11	(0.277)	8.34639e-12	(0.142)
H-abstraction	4.52043e-11	(0.550)	4.52043e-11	(0.769)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.549844	0.549844	0.769056	0.769056
Phenyl+Allene	0.285041	0.834885	0.000000	0.769056
PhCH2CCH+H	0.0844011	0.919286	0.118050	0.887106
PhCHCCH2+H	0.0377326	0.957018	0.0527760	0.939882
C2H2+PhCH2	0.0126638	0.969682	0.0177127	0.957595
PhCCH+CH3	0.00986301	0.979545	0.0137952	0.971390
PAH7+H	0.00416997	0.983715	0.00583246	0.977223
PhcycC3H3_A+H	0.00329081	0.987006	0.00460280	0.981825
Indene+H	0.00292518	0.989931	0.00409140	0.985917
Ph+MeAc	0.00282932	0.992760	0.00395731	0.989874
rad6	0.00193310	0.994693	0.00270380	0.992578
rad19syn	0.00186607	0.996560	0.00261003	0.995188
rad54	0.000795516	0.997355	0.00111267	0.996301
rad39	0.000460748	0.997816	0.000644442	0.996945
PAH1+H	0.000236127	0.998052	0.000330266	0.997275
rad19anti	0.000211647	0.998264	0.000296026	0.997571
PAH9+H	0.000190560	0.998454	0.000266532	0.997838
rad50	0.000147199	0.998601	0.000205884	0.998044
rad38	0.000129442	0.998731	0.000181049	0.998225
rad56	0.000114571	0.998845	0.000160249	0.998385
rad51	0.000106533	0.998952	0.000149006	0.998534
PhCCCH3+H	0.000100656	0.999053	0.000140786	0.998675
rad55	8.75324e-05	0.999140	0.000122430	0.998797
rad7	7.95124e-05	0.999220	0.000111213	0.998909
rad53	7.46741e-05	0.999294	0.000104445	0.999013
rad71	7.34083e-05	0.999368	0.000102675	0.999116
rad70	6.75729e-05	0.999435	9.45133e-05	0.999210
PAH3+H	6.69035e-05	0.999502	9.35768e-05	0.999304
PAH10+CH3	6.00877e-05	0.999562	8.40439e-05	0.999388
rad11	5.80616e-05	0.999620	8.12095e-05	0.999469
rad46	5.39724e-05	0.999674	7.54902e-05	0.999545
rad67	4.50683e-05	0.999719	6.30363e-05	0.999608
rad35	4.28209e-05	0.999762	5.98927e-05	0.999667
PAH8+H	3.54582e-05	0.999798	4.95947e-05	0.999717
rad34	2.56368e-05	0.999823	3.58577e-05	0.999753
rad73	2.39968e-05	0.999847	3.35638e-05	0.999786
rad52	1.93915e-05	0.999867	2.71225e-05	0.999814
rad62	1.39919e-05	0.999881	1.95702e-05	0.999833
rad72	1.33007e-05	0.999894	1.86034e-05	0.999852
rad13	1.12094e-05	0.999905	1.56784e-05	0.999867
rad30	1.08834e-05	0.999916	1.52224e-05	0.999883
rad9	9.33097e-06	0.999925	1.30511e-05	0.999896
rad23	8.68094e-06	0.999934	1.21419e-05	0.999908
rad37	8.60032e-06	0.999943	1.20291e-05	0.999920
rad28	6.54725e-06	0.999949	9.15750e-06	0.999929

rad64	6.38871e-06	0.999956	8.93579e-06	0.999938
rad68syn	5.47345e-06	0.999961	7.65560e-06	0.999946
rad59	4.95559e-06	0.999966	6.93127e-06	0.999953
rad45	3.91681e-06	0.999970	5.47838e-06	0.999958
rad68anti	3.49253e-06	0.999973	4.88495e-06	0.999963
rad40syn	3.04401e-06	0.999976	4.25761e-06	0.999967
rad42	2.82122e-06	0.999979	3.94600e-06	0.999971
rad21	2.56963e-06	0.999982	3.59411e-06	0.999975
rad60syn	2.53085e-06	0.999984	3.53986e-06	0.999978
rad65	2.35330e-06	0.999987	3.29153e-06	0.999982
rad40anti	2.21562e-06	0.999989	3.09894e-06	0.999985
rad22	1.97268e-06	0.999991	2.75916e-06	0.999987
rad60anti	1.85487e-06	0.999993	2.59438e-06	0.999990
rad58	1.38286e-06	0.999994	1.93418e-06	0.999992
rad33	1.13225e-06	0.999995	1.58366e-06	0.999994
rad15	7.42965e-07	0.999996	1.03918e-06	0.999995
rad36	7.10688e-07	0.999997	9.94026e-07	0.999996
rad20	6.09291e-07	0.999997	8.52203e-07	0.999996
rad43	4.44824e-07	0.999998	6.22167e-07	0.999997
rad61	3.86172e-07	0.999998	5.40131e-07	0.999998
rad25	3.03440e-07	0.999998	4.24417e-07	0.999998
rad12	2.63517e-07	0.999999	3.68577e-07	0.999998
rad47	2.46428e-07	0.999999	3.44674e-07	0.999999
rad26	2.37360e-07	0.999999	3.31991e-07	0.999999
rad24	1.49380e-07	0.999999	2.08935e-07	0.999999
rad8	1.24298e-07	0.999999	1.73854e-07	0.999999
rad18	1.20274e-07	1.000000	1.68224e-07	1.000000
rad10	1.08932e-07	1.000000	1.52361e-07	1.000000
rad41	9.20290e-08	1.000000	1.28719e-07	1.000000
rad3	2.94615e-08	1.000000	4.12073e-08	1.000000
rad14	2.41720e-08	1.000000	3.38090e-08	1.000000
rad4	1.77605e-08	1.000000	2.48412e-08	1.000000
rad2	1.47769e-08	1.000000	2.06682e-08	1.000000
rad5	5.65347e-09	1.000000	7.90738e-09	1.000000
rad1	3.48837e-09	1.000000	4.87913e-09	1.000000
rad27	9.77050e-10	1.000000	1.36658e-09	1.000000

1000000.00 Pa, 3500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.05713e-10 (1.00)	7.60110e-11 (1.00)
Formation of rad11	1.77412e-11 (0.168)	6.39021e-12 (0.0841)
Formation of rad6	2.86822e-11 (0.271)	1.03311e-11 (0.136)
H-abstraction	5.92897e-11 (0.561)	5.92897e-11 (0.780)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.780015	0.780015
Phenyl+Allene	0.280970	0.841824	0.000000	0.780015
PhCH2CCH+H	0.0822155	0.924040	0.114342	0.894357
PhCHCCH2+H	0.0358628	0.959903	0.0498765	0.944233
C2H2+PhCH2	0.0121746	0.972077	0.0169319	0.961165
PhCCH+CH3	0.00911819	0.981195	0.0126812	0.973847
PAH7+H	0.00389136	0.985087	0.00541196	0.979258
PhcycC3H3_A+H	0.00353843	0.988625	0.00492110	0.984180
Ph+MeAc	0.00275296	0.991378	0.00382870	0.988008
Indene+H	0.00234751	0.993726	0.00326482	0.991273
rad19syn	0.00192245	0.995648	0.00267367	0.993947
rad6	0.00110198	0.996750	0.00153259	0.995479
rad54	0.000823705	0.997574	0.00114557	0.996625
rad39	0.000400299	0.997974	0.000556720	0.997182
PAH1+H	0.000248050	0.998222	0.000344978	0.997527
rad19anti	0.000188623	0.998411	0.000262330	0.997789
PAH9+H	0.000161908	0.998573	0.000225174	0.998014
rad56	0.000132928	0.998705	0.000184871	0.998199
rad50	0.000126450	0.998832	0.000175861	0.998375
rad38	0.000111146	0.998943	0.000154578	0.998529
PhCCCH3+H	9.25306e-05	0.999036	0.000128688	0.998658
rad55	9.24432e-05	0.999128	0.000128566	0.998787
rad51	8.98566e-05	0.999218	0.000124969	0.998912
rad53	8.45684e-05	0.999302	0.000117614	0.999029
PAH3+H	7.11319e-05	0.999374	9.89276e-05	0.999128
rad70	7.06299e-05	0.999444	9.82292e-05	0.999226
PAH10+CH3	5.84643e-05	0.999503	8.13097e-05	0.999308
rad71	5.73032e-05	0.999560	7.96950e-05	0.999387
rad7	5.07735e-05	0.999611	7.06138e-05	0.999458
rad46	4.65520e-05	0.999657	6.47429e-05	0.999523
PAH8+H	4.48921e-05	0.999702	6.24343e-05	0.999585
rad67	4.47696e-05	0.999747	6.22636e-05	0.999647

rad35	3.94994e-05	0.999786	5.49342e-05	0.999702
rad11	3.47274e-05	0.999821	4.82974e-05	0.999751
rad34	2.77711e-05	0.999849	3.86230e-05	0.999789
rad73	1.91825e-05	0.999868	2.66782e-05	0.999816
rad52	1.65242e-05	0.999885	2.29814e-05	0.999839
rad62	1.55687e-05	0.999900	2.16523e-05	0.999861
rad30	1.01782e-05	0.999910	1.41555e-05	0.999875
rad72	9.97321e-06	0.999920	1.38703e-05	0.999889
rad37	7.60407e-06	0.999928	1.05754e-05	0.999899
rad13	7.43737e-06	0.999935	1.03436e-05	0.999910
rad64	6.78269e-06	0.999942	9.43308e-06	0.999919
rad68syn	6.51051e-06	0.999949	9.05457e-06	0.999928
rad9	5.74934e-06	0.999954	7.99594e-06	0.999936
rad23	5.35454e-06	0.999960	7.44686e-06	0.999944
rad59	5.16180e-06	0.999965	7.17883e-06	0.999951
rad68anti	4.15112e-06	0.999969	5.77322e-06	0.999956
rad28	3.76399e-06	0.999973	5.23482e-06	0.999962
rad40syn	3.74839e-06	0.999977	5.21311e-06	0.999967
rad42	3.18120e-06	0.999980	4.42429e-06	0.999971
rad40anti	2.75539e-06	0.999983	3.83209e-06	0.999975
rad45	2.59084e-06	0.999985	3.60324e-06	0.999979
rad60syn	2.53815e-06	0.999988	3.52996e-06	0.999982
rad65	1.97956e-06	0.999990	2.75309e-06	0.999985
rad60anti	1.87113e-06	0.999992	2.60231e-06	0.999988
rad21	1.69672e-06	0.999993	2.35973e-06	0.999990
rad58	1.55345e-06	0.999995	2.16048e-06	0.999992
rad22	1.13660e-06	0.999996	1.58073e-06	0.999994
rad33	7.94247e-07	0.999997	1.10461e-06	0.999995
rad43	4.74145e-07	0.999997	6.59420e-07	0.999996
rad15	4.73930e-07	0.999998	6.59125e-07	0.999996
rad36	4.71229e-07	0.999998	6.55366e-07	0.999997
rad20	4.26720e-07	0.999999	5.93464e-07	0.999997
rad61	4.00474e-07	0.999999	5.56964e-07	0.999998
rad25	2.07938e-07	0.999999	2.89192e-07	0.999998
rad47	1.96866e-07	0.999999	2.73793e-07	0.999999
rad12	1.92114e-07	1.000000	2.67185e-07	0.999999
rad26	1.44533e-07	1.000000	2.01011e-07	0.999999
rad8	1.10732e-07	1.000000	1.54001e-07	0.999999
rad24	1.07293e-07	1.000000	1.49219e-07	0.999999
rad41	1.01382e-07	1.000000	1.40998e-07	0.999999
rad18	7.65224e-08	1.000000	1.06424e-07	1.000000
rad10	7.00402e-08	1.000000	9.74088e-08	1.000000
rad14	1.98785e-08	1.000000	2.76462e-08	1.000000
rad3	1.95336e-08	1.000000	2.71666e-08	1.000000
rad4	1.19486e-08	1.000000	1.66176e-08	1.000000
rad2	9.36653e-09	1.000000	1.30266e-08	1.000000
rad5	4.62776e-09	1.000000	6.43610e-09	1.000000
rad1	2.18322e-09	1.000000	3.03634e-09	1.000000
rad27	7.64767e-10	1.000000	1.06361e-09	1.000000

1000000.00 Pa, 3750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.33217e-10 (1.00)	9.63218e-11 (1.00)
Formation of rad11	2.17064e-11 (0.163)	7.70203e-12 (0.0800)
Formation of rad6	3.54800e-11 (0.266)	1.25893e-11 (0.131)
H-abstraction	7.60305e-11 (0.571)	7.60305e-11 (0.789)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789339	0.789339
Phenyl+Allene	0.276955	0.847682	0.00000	0.789339
PhCH2CCH+H	0.0799873	0.927670	0.110626	0.899965
PhCHCCH2+H	0.0342342	0.961904	0.0473474	0.947312
C2H2+PhCH2	0.0118494	0.973753	0.0163882	0.963700
PhCCH+CH3	0.00845809	0.982211	0.0116979	0.975398
PhcycC3H3_A+H	0.00382285	0.986034	0.00528716	0.980685
PAH7+H	0.00361929	0.989654	0.00500563	0.985691
Ph+MeAc	0.00269544	0.992349	0.00372791	0.989419
rad19syn	0.00197545	0.994324	0.00273213	0.992151
Indene+H	0.00189448	0.996219	0.00262014	0.994771
rad54	0.000840774	0.997060	0.00116282	0.995934
rad6	0.000644502	0.997704	0.000891369	0.996825
rad39	0.000350943	0.998055	0.000485368	0.997311
PAH1+H	0.000265843	0.998321	0.000367671	0.997678
rad19anti	0.000167011	0.998488	0.000230984	0.997909
rad56	0.000153341	0.998641	0.000212077	0.998121
PAH9+H	0.000138316	0.998780	0.000191297	0.998313
rad50	0.000112325	0.998892	0.000155350	0.998468

rad55	9.62451e-05	0.998988	0.000133111	0.998601
rad38	9.59270e-05	0.999084	0.000132671	0.998734
rad53	9.48654e-05	0.999179	0.000131203	0.998865
PhCCCH3+H	8.55893e-05	0.999265	0.000118374	0.998983
rad51	7.94605e-05	0.999344	0.000109897	0.999093
PAH3+H	7.51326e-05	0.999419	0.000103911	0.999197
rad70	7.29064e-05	0.999492	0.000100833	0.999298
PAH10+CH3	5.67383e-05	0.999549	7.84713e-05	0.999376
PAH8+H	5.61944e-05	0.999605	7.77193e-05	0.999454
rad71	4.86422e-05	0.999654	6.72743e-05	0.999521
rad67	4.42550e-05	0.999698	6.12066e-05	0.999583
rad46	4.06269e-05	0.999739	5.61886e-05	0.999639
rad35	3.66415e-05	0.999775	5.06767e-05	0.999689
rad7	3.28813e-05	0.999808	4.54761e-05	0.999735
rad34	2.96399e-05	0.999838	4.09932e-05	0.999776
rad11	2.17606e-05	0.999859	3.00957e-05	0.999806
rad62	1.89123e-05	0.999878	2.61563e-05	0.999832
rad73	1.65839e-05	0.999895	2.29362e-05	0.999855
rad52	1.46237e-05	0.999910	2.02252e-05	0.999875
rad30	9.51440e-06	0.999919	1.31588e-05	0.999888
rad72	8.15120e-06	0.999927	1.12734e-05	0.999900
rad68syn	7.60354e-06	0.999935	1.05160e-05	0.999910
rad64	7.23556e-06	0.999942	1.00071e-05	0.999920
rad37	6.66012e-06	0.999949	9.21123e-06	0.999929
rad59	5.34050e-06	0.999954	7.38610e-06	0.999937
rad13	5.02571e-06	0.999959	6.95075e-06	0.999944
rad68anti	4.84452e-06	0.999964	6.70015e-06	0.999951
rad40syn	4.55128e-06	0.999969	6.29460e-06	0.999957
rad42	4.01567e-06	0.999973	5.55383e-06	0.999962
rad9	3.55944e-06	0.999976	4.92286e-06	0.999967
rad40anti	3.38513e-06	0.999979	4.68176e-06	0.999972
rad23	3.31812e-06	0.999983	4.58909e-06	0.999977
rad60syn	2.53280e-06	0.999985	3.50296e-06	0.999980
rad28	2.19965e-06	0.999988	3.04220e-06	0.999983
rad60anti	1.87770e-06	0.999989	2.59693e-06	0.999986
rad65	1.74846e-06	0.999991	2.41818e-06	0.999988
rad58	1.73594e-06	0.999993	2.40089e-06	0.999991
rad45	1.70633e-06	0.999995	2.35993e-06	0.999993
rad21	1.15817e-06	0.999996	1.60180e-06	0.999994
rad22	6.86077e-07	0.999996	9.48873e-07	0.999995
rad33	5.61347e-07	0.999997	7.76367e-07	0.999996
rad43	5.30203e-07	0.999998	7.33293e-07	0.999997
rad61	4.20888e-07	0.999998	5.82106e-07	0.999998
rad20	3.12079e-07	0.999998	4.31618e-07	0.999998
rad36	3.10812e-07	0.999999	4.29867e-07	0.999998
rad15	3.02545e-07	0.999999	4.18432e-07	0.999999
rad47	1.66563e-07	0.999999	2.30362e-07	0.999999
rad25	1.46561e-07	0.999999	2.02700e-07	0.999999
rad12	1.39912e-07	0.999999	1.93503e-07	0.999999
rad41	1.19786e-07	0.999999	1.65669e-07	1.000000
rad8	9.80991e-08	1.000000	1.35675e-07	1.000000
rad26	8.80572e-08	1.000000	1.21786e-07	1.000000
rad24	7.77100e-08	1.000000	1.07476e-07	1.000000
rad18	5.05018e-08	1.000000	6.98462e-08	1.000000
rad10	4.49646e-08	1.000000	6.21879e-08	1.000000
rad14	1.73522e-08	1.000000	2.39987e-08	1.000000
rad3	1.32083e-08	1.000000	1.82675e-08	1.000000
rad4	8.25221e-09	1.000000	1.14131e-08	1.000000
rad2	6.06146e-09	1.000000	8.38323e-09	1.000000
rad5	3.80533e-09	1.000000	5.26293e-09	1.000000
rad1	1.40825e-09	1.000000	1.94766e-09	1.000000
rad27	6.16844e-10	1.000000	8.53122e-10	1.000000

1000000.00 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.65008e-10 (1.00)	1.19960e-10 (1.00)
Formation of rad11	2.61707e-11 (0.159)	9.17364e-12 (0.0765)
Formation of rad6	4.31906e-11 (0.262)	1.51396e-11 (0.126)
H-abstraction	9.56470e-11 (0.580)	9.56470e-11 (0.797)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.579650	0.579650	0.797322	0.797322
Phenyl+Allene	0.273005	0.852654	0.000000	0.797322
PhCH2CCH+H	0.0778485	0.930503	0.107082	0.904405
PhCHCCH2+H	0.0328405	0.963343	0.0451728	0.949577
C2H2+PhCH2	0.0116377	0.974981	0.0160080	0.965585
PhCCH+CH3	0.00788922	0.982870	0.0108518	0.976437

PhcycC3H3_A+H	0.00410008	0.986970	0.00563975	0.982077
PAH7+H	0.00336311	0.990333	0.00462604	0.986703
Ph+MeAc	0.00265218	0.992985	0.00364814	0.990351
rad19syn	0.00201500	0.995000	0.00277168	0.993123
Indene+H	0.00154403	0.996544	0.00212384	0.995247
rad54	0.000846098	0.997391	0.00116383	0.996410
rad6	0.000389884	0.997780	0.000536294	0.996947
rad39	0.000310810	0.998091	0.000427527	0.997374
PAH1+H	0.000287573	0.998379	0.000395562	0.997770
rad56	0.000173553	0.998552	0.000238726	0.998009
rad19anti	0.000147974	0.998700	0.000203541	0.998212
PAH9+H	0.000118394	0.998819	0.000162854	0.998375
rad53	0.000104477	0.998923	0.000143711	0.998519
rad50	0.000101933	0.999025	0.000140211	0.998659
rad55	9.86684e-05	0.999124	0.000135721	0.998795
rad38	8.28868e-05	0.999207	0.000114013	0.998909
PhCCCH3+H	7.98918e-05	0.999287	0.000109893	0.999018
PAH3+H	7.86190e-05	0.999365	0.000108142	0.999127
rad70	7.44176e-05	0.999440	0.000102363	0.999229
rad51	7.26252e-05	0.999512	9.98977e-05	0.999329
PAH8+H	6.87000e-05	0.999581	9.44987e-05	0.999423
PAH10+CH3	5.48994e-05	0.999636	7.55153e-05	0.999499
rad71	4.48468e-05	0.999681	6.16876e-05	0.999561
rad67	4.35185e-05	0.999724	5.98609e-05	0.999620
rad46	3.56573e-05	0.999760	4.90474e-05	0.999670
rad35	3.41050e-05	0.999794	4.69122e-05	0.999716
rad34	3.11887e-05	0.999825	4.29006e-05	0.999759
rad62	2.38088e-05	0.999849	3.27495e-05	0.999792
rad7	2.17539e-05	0.999871	2.99229e-05	0.999822
rad73	1.53812e-05	0.999886	2.11571e-05	0.999843
rad11	1.42552e-05	0.999900	1.96084e-05	0.999863
rad52	1.32632e-05	0.999914	1.82439e-05	0.999881
rad30	8.89466e-06	0.999923	1.22348e-05	0.999893
rad68syn	6.68957e-06	0.999931	1.19527e-05	0.999905
rad64	7.68090e-06	0.999939	1.05653e-05	0.999916
rad72	7.36757e-06	0.999946	1.01342e-05	0.999926
rad37	5.81984e-06	0.999952	8.00533e-06	0.999934
rad68anti	5.53286e-06	0.999958	7.61057e-06	0.999942
rad59	5.47939e-06	0.999963	7.53702e-06	0.999949
rad40syn	5.40487e-06	0.999968	7.43453e-06	0.999956
rad42	5.28544e-06	0.999974	7.27028e-06	0.999964
rad40anti	4.06742e-06	0.999978	5.59484e-06	0.999969
rad13	3.48183e-06	0.999981	4.78934e-06	0.999974
rad60syn	2.51375e-06	0.999984	3.45772e-06	0.999978
rad9	2.24221e-06	0.999986	3.08421e-06	0.999981
rad23	2.08159e-06	0.999988	2.86327e-06	0.999984
rad58	1.91590e-06	0.999990	2.63536e-06	0.999986
rad60anti	1.87330e-06	0.999992	2.57676e-06	0.999989
rad65	1.59696e-06	0.999994	2.19664e-06	0.999991
rad28	1.32096e-06	0.999995	1.81701e-06	0.999993
rad45	1.12717e-06	0.999996	1.55045e-06	0.999994
rad21	8.16489e-07	0.999997	1.12310e-06	0.999995
rad43	6.10025e-07	0.999997	8.39102e-07	0.999996
rad61	4.42225e-07	0.999998	6.08293e-07	0.999997
rad22	4.33306e-07	0.999998	5.96021e-07	0.999997
rad33	4.02227e-07	0.999999	5.53272e-07	0.999998
rad20	2.37039e-07	0.999999	3.26052e-07	0.999998
rad36	2.05421e-07	0.999999	2.82561e-07	0.999999
rad15	1.95668e-07	0.999999	2.69146e-07	0.999999
rad47	1.46968e-07	0.999999	2.02157e-07	0.999999
rad41	1.46324e-07	1.000000	2.01271e-07	0.999999
rad25	1.06152e-07	1.000000	1.46015e-07	0.999999
rad12	1.02837e-07	1.000000	1.41455e-07	1.000000
rad8	8.64787e-08	1.000000	1.18954e-07	1.000000
rad24	5.69171e-08	1.000000	7.82908e-08	1.000000
rad26	5.44337e-08	1.000000	7.48749e-08	1.000000
rad18	3.45037e-08	1.000000	4.74607e-08	1.000000
rad10	2.91940e-08	1.000000	4.01570e-08	1.000000
rad14	1.59820e-08	1.000000	2.19837e-08	1.000000
rad3	9.16704e-09	1.000000	1.26095e-08	1.000000
rad4	5.88016e-09	1.000000	8.08830e-09	1.000000
rad2	4.03614e-09	1.000000	5.55181e-09	1.000000
rad5	3.16481e-09	1.000000	4.35326e-09	1.000000
rad1	9.42590e-10	1.000000	1.29655e-09	1.000000
rad27	5.17212e-10	1.000000	7.11436e-10	1.000000

100000.000 Pa, 20.0000000 K

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Rate constant | True (fraction) | Effective (fraction)

Total	1.56740e-51 (1.00)	1.56740e-51 (1.00)
Formation of rad11	1.56740e-51 (1.000)	1.56740e-51 (1.000)
Formation of rad6	3.73945e-60 (2.39e-09)	3.73945e-60 (2.39e-09)
H-abstraction	1.53631e-76 (9.80e-26)	1.53631e-76 (9.80e-26)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.999756	0.999756	0.999756	0.999756
rad6	0.000231726	0.999988	0.000231726	0.999988
rad21	1.10889e-05	0.999999	1.10889e-05	0.999999
rad20	6.36506e-07	0.999999	6.36506e-07	0.999999
rad22	2.53436e-07	1.000000	2.53436e-07	1.000000
rad45	2.55245e-08	1.000000	2.55245e-08	1.000000
rad25	4.93335e-09	1.000000	4.93335e-09	1.000000
rad18	3.28914e-09	1.000000	3.28914e-09	1.000000
rad24	2.72252e-09	1.000000	2.72252e-09	1.000000
rad36	1.92413e-09	1.000000	1.92413e-09	1.000000
PhCHCCH2+H	2.83483e-10	1.000000	2.83483e-10	1.000000
rad13	1.05483e-10	1.000000	1.05483e-10	1.000000
Indene+H	4.65740e-11	1.000000	4.65740e-11	1.000000
rad7	3.21587e-11	1.000000	3.21587e-11	1.000000
C2H2+PhCH2	2.80285e-11	1.000000	2.80285e-11	1.000000
rad23	1.47915e-11	1.000000	1.47915e-11	1.000000
rad9	1.46885e-11	1.000000	1.46885e-11	1.000000
rad33	7.54693e-13	1.000000	7.54693e-13	1.000000
Phenyl+Allene	1.80077e-13	1.000000	0.000000	1.000000
rad3	4.07234e-16	1.000000	4.07234e-16	1.000000
rad4	2.36699e-16	1.000000	2.36699e-16	1.000000
rad28	1.30669e-17	1.000000	1.30669e-17	1.000000
rad30	3.17402e-18	1.000000	3.17402e-18	1.000000
PhCH2CCH+H	6.67275e-19	1.000000	6.67275e-19	1.000000
rad15	4.62852e-19	1.000000	4.62852e-19	1.000000
rad8	1.65743e-19	1.000000	1.65743e-19	1.000000
rad38	1.92119e-20	1.000000	1.92119e-20	1.000000
rad2	6.85785e-21	1.000000	6.85785e-21	1.000000
rad1	6.37887e-22	1.000000	6.37887e-22	1.000000
rad46	7.67140e-23	1.000000	7.67140e-23	1.000000
PhCCH+CH3	2.95009e-23	1.000000	2.95009e-23	1.000000
rad60syn	5.37755e-24	1.000000	5.37755e-24	1.000000
PAH9+H	5.01852e-24	1.000000	5.01852e-24	1.000000
PAH7+H	4.79976e-24	1.000000	4.79976e-24	1.000000
rad35	2.93133e-24	1.000000	2.93133e-24	1.000000
rad14	2.56750e-24	1.000000	2.56750e-24	1.000000
rad31	6.24938e-25	1.000000	6.24938e-25	1.000000
rad60anti	5.57205e-25	1.000000	5.57205e-25	1.000000
Benzene+2-propynyl	9.80165e-26	1.000000	9.80165e-26	1.000000
rad10	9.13365e-27	1.000000	9.13365e-27	1.000000
Ph+MeAc	8.54508e-28	1.000000	8.54508e-28	1.000000
rad26	1.18299e-28	1.000000	1.18299e-28	1.000000
rad27	9.94921e-30	1.000000	9.94921e-30	1.000000
PhCCCH3+H	2.89024e-30	1.000000	2.89024e-30	1.000000
rad39	1.98951e-30	1.000000	1.98951e-30	1.000000
PAH3+H	1.00389e-30	1.000000	1.00389e-30	1.000000
rad59	4.70908e-31	1.000000	4.70908e-31	1.000000
rad50	4.13836e-33	1.000000	4.13836e-33	1.000000
rad12	3.99695e-38	1.000000	3.99695e-38	1.000000
rad37	9.11540e-40	1.000000	9.11540e-40	1.000000
rad19syn	3.81229e-40	1.000000	3.81229e-40	1.000000
rad5	2.06929e-40	1.000000	2.06929e-40	1.000000
rad52	6.45647e-41	1.000000	6.45647e-41	1.000000
rad54	1.95702e-41	1.000000	1.95702e-41	1.000000
rad70	4.12336e-43	1.000000	4.12336e-43	1.000000
rad51	2.14452e-45	1.000000	2.14452e-45	1.000000
rad55	6.92137e-48	1.000000	6.92137e-48	1.000000
rad58	6.89551e-48	1.000000	6.89551e-48	1.000000
rad34	1.72104e-48	1.000000	1.72104e-48	1.000000
PhcycC3H3_A+H	2.66976e-49	1.000000	2.66976e-49	1.000000
rad62	1.82623e-49	1.000000	1.82623e-49	1.000000
PAH10+CH3	2.22490e-50	1.000000	2.22490e-50	1.000000
rad65	6.95622e-52	1.000000	6.95622e-52	1.000000
rad47	2.54916e-52	1.000000	2.54916e-52	1.000000
rad43	2.35891e-52	1.000000	2.35891e-52	1.000000
PAH1+H	4.21612e-56	1.000000	4.21612e-56	1.000000
rad42	7.43217e-60	1.000000	7.43217e-60	1.000000
rad41	5.98612e-64	1.000000	5.98612e-64	1.000000

100000.000 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	5.03204e-39 (1.00)	5.03204e-39 (1.00)
Formation of rad11	5.03203e-39 (1.000)	5.03203e-39 (1.000)
Formation of rad6	9.92181e-45 (1.97e-06)	9.92181e-45 (1.97e-06)
H-abstraction	3.33191e-55 (6.62e-17)	3.33191e-55 (6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.999505	0.999505	0.999505	0.999505
rad6	0.000470607	0.999976	0.000470607	0.999976
rad21	2.08165e-05	0.999996	2.08165e-05	0.999996
rad20	2.39135e-06	0.999999	2.39135e-06	0.999999
rad22	9.86870e-07	1.000000	9.86870e-07	1.000000
rad45	1.07887e-07	1.000000	1.07887e-07	1.000000
rad18	2.53078e-08	1.000000	2.53078e-08	1.000000
rad25	1.00675e-08	1.000000	1.00675e-08	1.000000
rad36	7.53101e-09	1.000000	7.53101e-09	1.000000
rad24	2.75630e-09	1.000000	2.75630e-09	1.000000
PhCHCCH2+H	5.85964e-10	1.000000	5.85964e-10	1.000000
Indene+H	4.49533e-10	1.000000	4.49533e-10	1.000000
rad13	4.22393e-10	1.000000	4.22393e-10	1.000000
C2H2+PhCH2	2.21220e-10	1.000000	2.21220e-10	1.000000
rad7	1.33410e-10	1.000000	1.33410e-10	1.000000
rad23	1.31454e-10	1.000000	1.31454e-10	1.000000
rad9	3.05315e-11	1.000000	3.05315e-11	1.000000
rad33	2.88211e-12	1.000000	2.88211e-12	1.000000
Phenyl+Allene	4.28021e-13	1.000000	0.000000	1.000000
rad3	3.44366e-15	1.000000	3.44366e-15	1.000000
rad4	1.93287e-15	1.000000	1.93287e-15	1.000000
rad28	1.10828e-16	1.000000	1.10828e-16	1.000000
Benzene+2-propynyl	6.62139e-17	1.000000	6.62139e-17	1.000000
rad30	5.10178e-17	1.000000	5.10178e-17	1.000000
rad15	7.47321e-18	1.000000	7.47321e-18	1.000000
PhCH2CCH+H	1.61577e-18	1.000000	1.61577e-18	1.000000
rad8	1.41565e-18	1.000000	1.41565e-18	1.000000
rad38	2.08247e-19	1.000000	2.08247e-19	1.000000
rad2	1.19386e-19	1.000000	1.19386e-19	1.000000
rad1	1.00128e-20	1.000000	1.00128e-20	1.000000
rad46	8.51719e-22	1.000000	8.51719e-22	1.000000
PhCCH+CH3	5.41484e-22	1.000000	5.41484e-22	1.000000
PAH9+H	9.54939e-23	1.000000	9.54939e-23	1.000000
rad60syn	9.22675e-23	1.000000	9.22675e-23	1.000000
rad35	5.56367e-23	1.000000	5.56367e-23	1.000000
rad14	4.56212e-23	1.000000	4.56212e-23	1.000000
PAH7+H	2.40160e-23	1.000000	2.40160e-23	1.000000
rad60anti	9.77564e-24	1.000000	9.77564e-24	1.000000
rad31	3.23631e-24	1.000000	3.23631e-24	1.000000
rad10	3.30206e-25	1.000000	3.30206e-25	1.000000
Ph+MeAc	2.00615e-26	1.000000	2.00615e-26	1.000000
rad26	6.39133e-28	1.000000	6.39133e-28	1.000000
rad27	3.69737e-28	1.000000	3.69737e-28	1.000000
PhCCCH3+H	1.13865e-28	1.000000	1.13865e-28	1.000000
rad39	4.15967e-29	1.000000	4.15967e-29	1.000000
PAH3+H	1.77939e-29	1.000000	1.77939e-29	1.000000
rad59	8.35139e-30	1.000000	8.35139e-30	1.000000
rad50	4.65112e-32	1.000000	4.65112e-32	1.000000
rad12	4.31891e-37	1.000000	4.31891e-37	1.000000
rad5	1.02129e-38	1.000000	1.02129e-38	1.000000
rad37	9.81755e-39	1.000000	9.81755e-39	1.000000
rad19syn	4.19408e-39	1.000000	4.19408e-39	1.000000
rad52	6.99336e-40	1.000000	6.99336e-40	1.000000
rad54	1.66925e-40	1.000000	1.66925e-40	1.000000
rad70	2.18464e-42	1.000000	2.18464e-42	1.000000
rad51	2.27029e-44	1.000000	2.27029e-44	1.000000
rad58	1.06195e-46	1.000000	1.06195e-46	1.000000
rad55	5.52445e-47	1.000000	5.52445e-47	1.000000
rad34	9.15403e-48	1.000000	9.15403e-48	1.000000
rad62	7.29732e-48	1.000000	7.29732e-48	1.000000
PhcycC3H3_A+H	2.96294e-48	1.000000	2.96294e-48	1.000000
PAH10+CH3	2.22239e-49	1.000000	2.22239e-49	1.000000
rad43	1.94252e-50	1.000000	1.94252e-50	1.000000
rad65	1.39244e-50	1.000000	1.39244e-50	1.000000
rad47	2.54307e-51	1.000000	2.54307e-51	1.000000
PAH1+H	7.36979e-55	1.000000	7.36979e-55	1.000000
rad42	2.71902e-58	1.000000	2.71902e-58	1.000000
rad41	4.37097e-62	1.000000	4.37097e-62	1.000000

100000.000 Pa, 40.0000000 K

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Rate constant | True (fraction) | Effective (fraction)

Total	9.35697e-33 (1.00)	9.35697e-33 (1.00)
Formation of rad11	9.35644e-33 (1.000)	9.35644e-33 (1.000)
Formation of rad6	5.26139e-37 (5.62e-05)	5.26139e-37 (5.62e-05)
H-abstraction	1.44763e-44 (1.55e-12)	1.44763e-44 (1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.999206	0.999206	0.999206	0.999206
rad6	0.000757746	0.999964	0.000757746	0.999964
rad21	2.91838e-05	0.999993	2.91838e-05	0.999993
rad20	4.94409e-06	0.999998	4.94409e-06	0.999998
rad22	2.11225e-06	1.000000	2.11225e-06	1.000000
rad45	2.36319e-07	1.000000	2.36319e-07	1.000000
rad18	7.90577e-08	1.000000	7.90577e-08	1.000000
rad36	1.59861e-08	1.000000	1.59861e-08	1.000000
rad25	1.53600e-08	1.000000	1.53600e-08	1.000000
rad24	2.47652e-09	1.000000	2.47652e-09	1.000000
Indene+H	1.68838e-09	1.000000	1.68838e-09	1.000000
rad13	1.08377e-09	1.000000	1.08377e-09	1.000000
PhCHCCH2+H	9.17480e-10	1.000000	9.17480e-10	1.000000
C2H2+PhCH2	7.15103e-10	1.000000	7.15103e-10	1.000000
rad23	4.41392e-10	1.000000	4.41392e-10	1.000000
rad7	3.60005e-10	1.000000	3.60005e-10	1.000000
rad9	4.83563e-11	1.000000	4.83563e-11	1.000000
rad33	7.19605e-12	1.000000	7.19605e-12	1.000000
Benzene+2-propynyl	1.54712e-12	1.000000	1.54712e-12	1.000000
Phenyl+Allene	8.71377e-13	1.000000	0.000000	1.000000
rad3	1.60634e-14	1.000000	1.60634e-14	1.000000
rad4	8.86392e-15	1.000000	8.86392e-15	1.000000
rad28	5.69798e-16	1.000000	5.69798e-16	1.000000
rad30	2.49539e-16	1.000000	2.49539e-16	1.000000
rad15	3.68455e-17	1.000000	3.68455e-17	1.000000
rad8	5.33863e-18	1.000000	5.33863e-18	1.000000
PhCH2CCH+H	3.53328e-18	1.000000	3.53328e-18	1.000000
rad2	1.02968e-18	1.000000	1.02968e-18	1.000000
rad38	7.81795e-19	1.000000	7.81795e-19	1.000000
rad1	8.22636e-20	1.000000	8.22636e-20	1.000000
PhCCH+CH3	6.52972e-21	1.000000	6.52972e-21	1.000000
rad46	3.30620e-21	1.000000	3.30620e-21	1.000000
rad60syn	5.14830e-22	1.000000	5.14830e-22	1.000000
PAH9+H	5.10931e-22	1.000000	5.10931e-22	1.000000
rad14	4.74380e-22	1.000000	4.74380e-22	1.000000
rad35	2.96434e-22	1.000000	2.96434e-22	1.000000
PAH7+H	7.90109e-23	1.000000	7.90109e-23	1.000000
rad60anti	5.77417e-23	1.000000	5.77417e-23	1.000000
rad31	1.21608e-23	1.000000	1.21608e-23	1.000000
rad10	5.32361e-24	1.000000	5.32361e-24	1.000000
Ph+MeAc	5.81960e-25	1.000000	5.81960e-25	1.000000
rad27	6.94198e-27	1.000000	6.94198e-27	1.000000
PhCCCH3+H	2.70209e-27	1.000000	2.70209e-27	1.000000
rad26	2.11713e-27	1.000000	2.11713e-27	1.000000
rad39	8.88576e-28	1.000000	8.88576e-28	1.000000
PAH3+H	1.17099e-28	1.000000	1.17099e-28	1.000000
rad59	5.48828e-29	1.000000	5.48828e-29	1.000000
rad50	2.37190e-31	1.000000	2.37190e-31	1.000000
rad12	2.11581e-36	1.000000	2.11581e-36	1.000000
rad5	5.17446e-37	1.000000	5.17446e-37	1.000000
rad37	4.82304e-38	1.000000	4.82304e-38	1.000000
rad19syn	4.81058e-38	1.000000	4.81058e-38	1.000000
rad52	3.87267e-39	1.000000	3.87267e-39	1.000000
rad54	1.27000e-39	1.000000	1.27000e-39	1.000000
rad70	8.85007e-42	1.000000	8.85007e-42	1.000000
rad51	1.32395e-43	1.000000	1.32395e-43	1.000000
rad58	7.32557e-46	1.000000	7.32557e-46	1.000000
rad55	3.43499e-46	1.000000	3.43499e-46	1.000000
rad62	1.60148e-46	1.000000	1.60148e-46	1.000000
rad34	3.86154e-47	1.000000	3.86154e-47	1.000000
PhcycC3H3_A+H	2.50584e-47	1.000000	2.50584e-47	1.000000
PAH10+CH3	1.18096e-48	1.000000	1.18096e-48	1.000000
rad43	7.27187e-49	1.000000	7.27187e-49	1.000000
rad65	1.16297e-49	1.000000	1.16297e-49	1.000000
rad47	1.56353e-50	1.000000	1.56353e-50	1.000000
PAH1+H	7.35656e-54	1.000000	7.35656e-54	1.000000
rad42	4.32466e-57	1.000000	4.32466e-57	1.000000
rad41	1.06949e-60	1.000000	1.06949e-60	1.000000

100000.000 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	5.52690e-29 (1.00)	5.52690e-29 (1.00)
Formation of rad11	5.52459e-29 (1.000)	5.52459e-29 (1.000)
Formation of rad6	2.30840e-32 (0.000418)	2.30840e-32 (0.000418)
H-abstraction	3.35357e-38 (6.07e-10)	3.35357e-38 (6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.998598	0.998598	0.998598	0.998598
rad6	0.00135318	0.999951	0.00135318	0.999951
rad21	3.66883e-05	0.999988	3.66883e-05	0.999988
rad20	8.13836e-06	0.999996	8.13836e-06	0.999996
rad22	3.59745e-06	1.000000	3.59745e-06	1.000000
rad45	4.08180e-07	1.000000	4.08180e-07	1.000000
rad18	1.74808e-07	1.000000	1.74808e-07	1.000000
rad36	2.71309e-08	1.000000	2.71309e-08	1.000000
rad25	2.10314e-08	1.000000	2.10314e-08	1.000000
Indene+H	4.37175e-09	1.000000	4.37175e-09	1.000000
rad13	3.22413e-09	1.000000	3.22413e-09	1.000000
rad24	2.22821e-09	1.000000	2.22821e-09	1.000000
C2H2+PhCH2	1.64713e-09	1.000000	1.64713e-09	1.000000
PhCHCCH2+H	1.30167e-09	1.000000	1.30167e-09	1.000000
rad7	1.16006e-09	1.000000	1.16006e-09	1.000000
rad23	1.02948e-09	1.000000	1.02948e-09	1.000000
Benzene+2-propynyl	6.06773e-10	1.000000	6.06773e-10	1.000000
rad9	6.96882e-11	1.000000	6.96882e-11	1.000000
rad33	2.11030e-11	1.000000	2.11030e-11	1.000000
Phenyl+Allene	1.69618e-12	1.000000	0.000000	1.000000
rad3	8.95950e-14	1.000000	8.95950e-14	1.000000
rad4	4.89197e-14	1.000000	4.89197e-14	1.000000
rad28	3.62753e-15	1.000000	3.62753e-15	1.000000
rad30	7.77424e-16	1.000000	7.77424e-16	1.000000
rad15	1.16012e-16	1.000000	1.16012e-16	1.000000
rad8	1.50663e-17	1.000000	1.50663e-17	1.000000
rad2	9.88513e-18	1.000000	9.88513e-18	1.000000
PhCH2CCH+H	8.12527e-18	1.000000	8.12527e-18	1.000000
rad38	2.00032e-18	1.000000	2.00032e-18	1.000000
rad1	7.66909e-19	1.000000	7.66909e-19	1.000000
PhCCH+CH3	8.20422e-20	1.000000	8.20422e-20	1.000000
rad46	8.80316e-21	1.000000	8.80316e-21	1.000000
rad14	5.36963e-21	1.000000	5.36963e-21	1.000000
rad60syn	1.91522e-21	1.000000	1.91522e-21	1.000000
PAH9+H	1.69897e-21	1.000000	1.69897e-21	1.000000
rad35	9.80461e-22	1.000000	9.80461e-22	1.000000
PAH7+H	2.54021e-22	1.000000	2.54021e-22	1.000000
rad60anti	2.33512e-22	1.000000	2.33512e-22	1.000000
rad10	8.20460e-23	1.000000	8.20460e-23	1.000000
rad31	6.00424e-23	1.000000	6.00424e-23	1.000000
Ph+MeAc	1.08855e-23	1.000000	1.08855e-23	1.000000
rad27	1.18604e-25	1.000000	1.18604e-25	1.000000
PhCCCH3+H	5.27219e-26	1.000000	5.27219e-26	1.000000
rad39	1.48310e-26	1.000000	1.48310e-26	1.000000
rad26	6.48906e-27	1.000000	6.48906e-27	1.000000
PAH3+H	5.77563e-28	1.000000	5.77563e-28	1.000000
rad59	2.69878e-28	1.000000	2.69878e-28	1.000000
rad50	9.98981e-31	1.000000	9.98981e-31	1.000000
rad5	1.79279e-35	1.000000	1.79279e-35	1.000000
rad12	8.52106e-36	1.000000	8.52106e-36	1.000000
rad19syn	8.29107e-37	1.000000	8.29107e-37	1.000000
rad37	1.95498e-37	1.000000	1.95498e-37	1.000000
rad52	1.92503e-38	1.000000	1.92503e-38	1.000000
rad54	1.55820e-38	1.000000	1.55820e-38	1.000000
rad70	3.73130e-41	1.000000	3.73130e-41	1.000000
rad51	7.29092e-43	1.000000	7.29092e-43	1.000000
rad62	4.65890e-45	1.000000	4.65890e-45	1.000000
rad58	4.36226e-45	1.000000	4.36226e-45	1.000000
rad55	3.31389e-45	1.000000	3.31389e-45	1.000000
PhcycC3H3_A+H	3.32473e-46	1.000000	3.32473e-46	1.000000
rad34	1.74419e-46	1.000000	1.74419e-46	1.000000
rad43	3.10512e-47	1.000000	3.10512e-47	1.000000
PAH10+CH3	5.68457e-48	1.000000	5.68457e-48	1.000000
rad65	8.15250e-49	1.000000	8.15250e-49	1.000000
rad47	9.77833e-50	1.000000	9.77833e-50	1.000000
PAH1+H	1.00750e-52	1.000000	1.00750e-52	1.000000
rad42	9.15248e-56	1.000000	9.15248e-56	1.000000
rad41	3.27391e-59	1.000000	3.27391e-59	1.000000

100000.000 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.83429e-26 (1.00)	1.83429e-26 (1.00)
Formation of rad11	1.83139e-26 (0.998)	1.83139e-26 (0.998)
Formation of rad6	2.90471e-29 (0.00158)	2.90471e-29 (0.00158)
H-abstraction	5.71259e-34 (3.11e-08)	5.71259e-34 (3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.997181	0.997181	0.997181	0.997181
rad6	0.00275659	0.999938	0.00275659	0.999938
rad21	4.35797e-05	0.999981	4.35797e-05	0.999981
rad20	1.18779e-05	0.999993	1.18779e-05	0.999993
rad22	5.43143e-06	0.999998	5.43143e-06	0.999998
rad45	6.23510e-07	0.999999	6.23510e-07	0.999999
rad18	3.22011e-07	0.999999	3.22011e-07	0.999999
rad36	4.09715e-08	0.999999	4.09715e-08	0.999999
Benzene+2-propynyl	3.11432e-08	0.999999	3.11432e-08	0.999999
rad25	2.72061e-08	0.999999	2.72061e-08	0.999999
rad13	9.94147e-09	1.000000	9.94147e-09	1.000000
Indene+H	9.26311e-09	1.000000	9.26311e-09	1.000000
rad7	3.85880e-09	1.000000	3.85880e-09	1.000000
C2H2+PhCH2	3.17518e-09	1.000000	3.17518e-09	1.000000
rad24	2.02801e-09	1.000000	2.02801e-09	1.000000
rad23	1.98570e-09	1.000000	1.98570e-09	1.000000
PhCHCCH2+H	1.75577e-09	1.000000	1.75577e-09	1.000000
rad9	9.57310e-11	1.000000	9.57310e-11	1.000000
rad33	6.29710e-11	1.000000	6.29710e-11	1.000000
Phenyl+Allene	3.16204e-12	1.000000	0.000000	1.000000
rad3	4.27666e-13	1.000000	4.27666e-13	1.000000
rad4	2.31810e-13	1.000000	2.31810e-13	1.000000
rad28	1.84980e-14	1.000000	1.84980e-14	1.000000
rad30	1.91245e-15	1.000000	1.91245e-15	1.000000
rad15	2.88953e-16	1.000000	2.88953e-16	1.000000
rad2	6.63281e-17	1.000000	6.63281e-17	1.000000
rad8	3.65670e-17	1.000000	3.65670e-17	1.000000
PhCH2CCH+H	2.04757e-17	1.000000	2.04757e-17	1.000000
rad1	5.04510e-18	1.000000	5.04510e-18	1.000000
rad38	4.21112e-18	1.000000	4.21112e-18	1.000000
PhCCH+CH3	6.22313e-19	1.000000	6.22313e-19	1.000000
rad14	3.88160e-20	1.000000	3.88160e-20	1.000000
rad46	1.93784e-20	1.000000	1.93784e-20	1.000000
rad60syn	5.78026e-21	1.000000	5.78026e-21	1.000000
PAH9+H	4.41659e-21	1.000000	4.41659e-21	1.000000
rad35	2.53301e-21	1.000000	2.53301e-21	1.000000
PAH7+H	9.19602e-22	1.000000	9.19602e-22	1.000000
rad60anti	7.78237e-22	1.000000	7.78237e-22	1.000000
rad10	7.43965e-22	1.000000	7.43965e-22	1.000000
rad31	2.65824e-22	1.000000	2.65824e-22	1.000000
Ph+MeAc	1.02140e-22	1.000000	1.02140e-22	1.000000
rad27	1.12982e-24	1.000000	1.12982e-24	1.000000
PhCCCH3+H	5.38584e-25	1.000000	5.38584e-25	1.000000
rad39	1.29630e-25	1.000000	1.29630e-25	1.000000
rad26	2.04429e-26	1.000000	2.04429e-26	1.000000
PAH3+H	2.58769e-27	1.000000	2.58769e-27	1.000000
rad59	1.20367e-27	1.000000	1.20367e-27	1.000000
rad50	4.04720e-30	1.000000	4.04720e-30	1.000000
rad5	3.28588e-34	1.000000	3.28588e-34	1.000000
rad12	3.30415e-35	1.000000	3.30415e-35	1.000000
rad19syn	1.15585e-35	1.000000	1.15585e-35	1.000000
rad37	7.65027e-37	1.000000	7.65027e-37	1.000000
rad54	1.85411e-37	1.000000	1.85411e-37	1.000000
rad52	9.86247e-38	1.000000	9.86247e-38	1.000000
rad70	1.74360e-40	1.000000	1.74360e-40	1.000000
rad51	4.30939e-42	1.000000	4.30939e-42	1.000000
rad62	1.10236e-43	1.000000	1.10236e-43	1.000000
rad55	3.76067e-44	1.000000	3.76067e-44	1.000000
rad58	2.62631e-44	1.000000	2.62631e-44	1.000000
PhcycC3H3_A+H	4.76884e-45	1.000000	4.76884e-45	1.000000
rad43	9.40408e-46	1.000000	9.40408e-46	1.000000
rad34	8.90590e-46	1.000000	8.90590e-46	1.000000
PAH10+CH3	2.81691e-47	1.000000	2.81691e-47	1.000000
rad65	5.75123e-48	1.000000	5.75123e-48	1.000000
rad47	6.96644e-49	1.000000	6.96644e-49	1.000000
PAH1+H	1.53142e-51	1.000000	1.53142e-51	1.000000
rad42	2.26917e-54	1.000000	2.26917e-54	1.000000
rad41	1.11237e-57	1.000000	1.11237e-57	1.000000

100000.000 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.17336e-24 (1.00)	1.17336e-24 (1.00)
Formation of rad11	1.16857e-24 (0.996)	1.16857e-24 (0.996)
Formation of rad6	4.79505e-27 (0.00409)	4.79505e-27 (0.00409)
H-abstraction	5.89821e-31 (5.03e-07)	5.89821e-31 (5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.994423	0.994423	0.994423	0.994423
rad6	0.00550155	0.999924	0.00550155	0.999924
rad21	4.99916e-05	0.999974	4.99916e-05	0.999974
rad20	1.60905e-05	0.999990	1.60905e-05	0.999990
rad22	7.61191e-06	0.999998	7.61191e-06	0.999998
rad45	8.83411e-07	0.999999	8.83411e-07	0.999999
rad18	5.29862e-07	0.999999	5.29862e-07	0.999999
Benzene+2-propynyl	5.02676e-07	1.000000	5.02676e-07	1.000000
rad36	5.75790e-08	1.000000	5.75790e-08	1.000000
rad25	3.39726e-08	1.000000	3.39726e-08	1.000000
rad13	2.59809e-08	1.000000	2.59809e-08	1.000000
Indene+H	1.73098e-08	1.000000	1.73098e-08	1.000000
rad7	1.07452e-08	1.000000	1.07452e-08	1.000000
C2H2+PhCH2	5.48729e-09	1.000000	5.48729e-09	1.000000
rad23	3.41005e-09	1.000000	3.41005e-09	1.000000
PhCHCCH2+H	2.29670e-09	1.000000	2.29670e-09	1.000000
rad24	1.86535e-09	1.000000	1.86535e-09	1.000000
rad33	1.57295e-10	1.000000	1.57295e-10	1.000000
rad9	1.27745e-10	1.000000	1.27745e-10	1.000000
Phenyl+Allene	5.66497e-12	1.000000	0.000000	1.000000
rad3	1.51089e-12	1.000000	1.51089e-12	1.000000
rad4	8.14579e-13	1.000000	8.14579e-13	1.000000
rad28	6.79175e-14	1.000000	6.79175e-14	1.000000
rad30	4.07379e-15	1.000000	4.07379e-15	1.000000
rad15	6.24144e-16	1.000000	6.24144e-16	1.000000
rad2	3.01031e-16	1.000000	3.01031e-16	1.000000
rad8	8.09382e-17	1.000000	8.09382e-17	1.000000
PhCH2CCH+H	5.97615e-17	1.000000	5.97615e-17	1.000000
rad1	2.25759e-17	1.000000	2.25759e-17	1.000000
rad38	7.89146e-18	1.000000	7.89146e-18	1.000000
PhCCH+CH3	3.09317e-18	1.000000	3.09317e-18	1.000000
rad14	1.85776e-19	1.000000	1.85776e-19	1.000000
rad46	3.81343e-20	1.000000	3.81343e-20	1.000000
rad60syn	1.53869e-20	1.000000	1.53869e-20	1.000000
PAH9+H	9.90127e-21	1.000000	9.90127e-21	1.000000
rad35	5.63915e-21	1.000000	5.63915e-21	1.000000
rad10	4.28269e-21	1.000000	4.28269e-21	1.000000
PAH7+H	3.79556e-21	1.000000	3.79556e-21	1.000000
rad60anti	2.30254e-21	1.000000	2.30254e-21	1.000000
rad31	8.95615e-22	1.000000	8.95615e-22	1.000000
Ph+MeAc	6.14957e-22	1.000000	6.14957e-22	1.000000
rad27	6.77550e-24	1.000000	6.77550e-24	1.000000
PhCCCH3+H	3.44117e-24	1.000000	3.44117e-24	1.000000
rad39	7.30408e-25	1.000000	7.30408e-25	1.000000
rad26	7.08072e-26	1.000000	7.08072e-26	1.000000
PAH3+H	1.16574e-26	1.000000	1.16574e-26	1.000000
rad59	5.38752e-27	1.000000	5.38752e-27	1.000000
rad50	1.70629e-29	1.000000	1.70629e-29	1.000000
rad5	4.10721e-33	1.000000	4.10721e-33	1.000000
rad19syn	1.36758e-34	1.000000	1.36758e-34	1.000000
rad12	1.35412e-34	1.000000	1.35412e-34	1.000000
rad37	3.17360e-36	1.000000	3.17360e-36	1.000000
rad54	2.02561e-36	1.000000	2.02561e-36	1.000000
rad52	5.65363e-37	1.000000	5.65363e-37	1.000000
rad70	9.55587e-40	1.000000	9.55587e-40	1.000000
rad51	2.96442e-41	1.000000	2.96442e-41	1.000000
rad62	2.19823e-42	1.000000	2.19823e-42	1.000000
rad55	4.31483e-43	1.000000	4.31483e-43	1.000000
rad58	1.75464e-43	1.000000	1.75464e-43	1.000000
PhcycC3H3_A+H	6.50655e-44	1.000000	6.50655e-44	1.000000
rad43	2.24159e-44	1.000000	2.24159e-44	1.000000
rad34	5.40732e-45	1.000000	5.40732e-45	1.000000
PAH10+CH3	1.56299e-46	1.000000	1.56299e-46	1.000000
rad65	4.55596e-47	1.000000	4.55596e-47	1.000000
rad47	6.12178e-48	1.000000	6.12178e-48	1.000000
PAH1+H	2.26563e-50	1.000000	2.26563e-50	1.000000
rad42	5.86033e-53	1.000000	5.86033e-53	1.000000
rad41	3.78765e-56	1.000000	3.78765e-56	1.000000

100000.000 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	2.68112e-23 (1.00)	2.68112e-23 (1.00)
Formation of rad11	2.65890e-23 (0.992)	2.65890e-23 (0.992)
Formation of rad6	2.22189e-25 (0.00829)	2.22189e-25 (0.00829)
H-abstraction	1.05871e-28 (3.95e-06)	1.05871e-28 (3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.989958	0.989958	0.989958	0.989958
rad6	0.00994894	0.999907	0.00994894	0.999907
rad21	5.60120e-05	0.999963	5.60120e-05	0.999963
rad20	2.07211e-05	0.999984	2.07211e-05	0.999984
rad22	1.01444e-05	0.999994	1.01444e-05	0.999994
Benzene+2-propynyl	3.94877e-06	0.999998	3.94877e-06	0.999998
rad45	1.19002e-06	0.999999	1.19002e-06	0.999999
rad18	8.07880e-07	1.000000	8.07880e-07	1.000000
rad36	7.70907e-08	1.000000	7.70907e-08	1.000000
rad13	5.64256e-08	1.000000	5.64256e-08	1.000000
rad25	4.14236e-08	1.000000	4.14236e-08	1.000000
Indene+H	2.96972e-08	1.000000	2.96972e-08	1.000000
rad7	2.47242e-08	1.000000	2.47242e-08	1.000000
C2H2+PhCH2	8.81733e-09	1.000000	8.81733e-09	1.000000
rad23	5.41888e-09	1.000000	5.41888e-09	1.000000
PhCHCCH2+H	2.94558e-09	1.000000	2.94558e-09	1.000000
rad24	1.73071e-09	1.000000	1.73071e-09	1.000000
rad33	3.25433e-10	1.000000	3.25433e-10	1.000000
rad9	1.67344e-10	1.000000	1.67344e-10	1.000000
Phenyl+Allene	9.82987e-12	1.000000	0.000000	1.000000
rad3	4.17227e-12	1.000000	4.17227e-12	1.000000
rad4	2.24029e-12	1.000000	2.24029e-12	1.000000
rad28	1.93552e-13	1.000000	1.93552e-13	1.000000
rad30	7.89363e-15	1.000000	7.89363e-15	1.000000
rad15	1.22817e-15	1.000000	1.22817e-15	1.000000
rad2	1.02817e-15	1.000000	1.02817e-15	1.000000
PhCH2CCH+H	2.11275e-16	1.000000	2.11275e-16	1.000000
rad8	1.68881e-16	1.000000	1.68881e-16	1.000000
rad1	7.63087e-17	1.000000	7.63087e-17	1.000000
rad38	1.37204e-17	1.000000	1.37204e-17	1.000000
PhCCH+CH3	1.15378e-17	1.000000	1.15378e-17	1.000000
rad14	6.67445e-19	1.000000	6.67445e-19	1.000000
rad46	6.99405e-20	1.000000	6.99405e-20	1.000000
rad60syn	3.78426e-20	1.000000	3.78426e-20	1.000000
PAH9+H	2.01741e-20	1.000000	2.01741e-20	1.000000
rad10	1.80448e-20	1.000000	1.80448e-20	1.000000
PAH7+H	1.63593e-20	1.000000	1.63593e-20	1.000000
rad35	1.14014e-20	1.000000	1.14014e-20	1.000000
rad60anti	6.29400e-21	1.000000	6.29400e-21	1.000000
Ph+MeAc	2.78507e-21	1.000000	2.78507e-21	1.000000
rad31	2.40296e-21	1.000000	2.40296e-21	1.000000
rad27	2.97691e-23	1.000000	2.97691e-23	1.000000
PhCCCH3+H	1.61641e-23	1.000000	1.61641e-23	1.000000
rad39	3.10066e-24	1.000000	3.10066e-24	1.000000
rad26	2.85178e-25	1.000000	2.85178e-25	1.000000
PAH3+H	5.70010e-26	1.000000	5.70010e-26	1.000000
rad59	2.60856e-26	1.000000	2.60856e-26	1.000000
rad50	7.90552e-29	1.000000	7.90552e-29	1.000000
rad5	4.08637e-32	1.000000	4.08637e-32	1.000000
rad19syn	1.65503e-33	1.000000	1.65503e-33	1.000000
rad12	6.35771e-34	1.000000	6.35771e-34	1.000000
rad54	2.40194e-35	1.000000	2.40194e-35	1.000000
rad37	1.51870e-35	1.000000	1.51870e-35	1.000000
rad52	3.93686e-36	1.000000	3.93686e-36	1.000000
rad70	6.76301e-39	1.000000	6.76301e-39	1.000000
rad51	2.59581e-40	1.000000	2.59581e-40	1.000000
rad62	4.41197e-41	1.000000	4.41197e-41	1.000000
rad55	5.58876e-42	1.000000	5.58876e-42	1.000000
rad58	1.45138e-42	1.000000	1.45138e-42	1.000000
PhcycC3H3_A+H	9.64144e-43	1.000000	9.64144e-43	1.000000
rad43	5.07659e-43	1.000000	5.07659e-43	1.000000
rad34	4.28384e-44	1.000000	4.28384e-44	1.000000
PAH10+CH3	1.08077e-45	1.000000	1.08077e-45	1.000000
rad65	4.54109e-46	1.000000	4.54109e-46	1.000000
rad47	7.31577e-47	1.000000	7.31577e-47	1.000000
PAH1+H	3.67348e-49	1.000000	3.67348e-49	1.000000
rad42	1.76887e-51	1.000000	1.76887e-51	1.000000
rad41	1.45826e-54	1.000000	1.45826e-54	1.000000

100000.000 Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	3.08379e-22 (1.00)	3.08379e-22 (1.00)
Formation of rad11	3.03962e-22 (0.986)	3.03962e-22 (0.986)
Formation of rad6	4.41076e-24 (0.0143)	4.41076e-24 (0.0143)
H-abstraction	5.92916e-27 (1.92e-05)	5.92916e-27 (1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.983660	0.983660	0.983660	0.983660
rad6	0.0162172	0.999877	0.0162172	0.999877
rad21	6.17140e-05	0.999939	6.17140e-05	0.999939
rad20	2.57317e-05	0.999965	2.57317e-05	0.999965
Benzene+2-propynyl	1.92269e-05	0.999984	1.92269e-05	0.999984
rad22	1.30439e-05	0.999997	1.30439e-05	0.999997
rad45	1.54684e-06	0.999999	1.54684e-06	0.999999
rad18	1.16664e-06	1.000000	1.16664e-06	1.000000
rad13	1.05482e-07	1.000000	1.05482e-07	1.000000
rad36	9.97330e-08	1.000000	9.97330e-08	1.000000
rad25	4.96785e-08	1.000000	4.96785e-08	1.000000
rad7	4.88820e-08	1.000000	4.88820e-08	1.000000
Indene+H	4.79378e-08	1.000000	4.79378e-08	1.000000
C2H2+PhCH2	1.34684e-08	1.000000	1.34684e-08	1.000000
rad23	8.15418e-09	1.000000	8.15418e-09	1.000000
PhCHCCH2+H	3.73081e-09	1.000000	3.73081e-09	1.000000
rad24	1.61758e-09	1.000000	1.61758e-09	1.000000
rad33	5.79436e-10	1.000000	5.79436e-10	1.000000
rad9	2.16726e-10	1.000000	2.16726e-10	1.000000
Phenyl+Allene	1.66424e-11	1.000000	0.000000	1.000000
rad3	9.61997e-12	1.000000	9.61997e-12	1.000000
rad4	5.14917e-12	1.000000	5.14917e-12	1.000000
rad28	4.59956e-13	1.000000	4.59956e-13	1.000000
rad30	1.43380e-14	1.000000	1.43380e-14	1.000000
rad2	2.87494e-15	1.000000	2.87494e-15	1.000000
rad15	2.26903e-15	1.000000	2.26903e-15	1.000000
PhCH2CCH+H	8.49674e-16	1.000000	8.49674e-16	1.000000
rad8	3.39214e-16	1.000000	3.39214e-16	1.000000
rad1	2.11721e-16	1.000000	2.11721e-16	1.000000
PhCCH+CH3	3.53639e-17	1.000000	3.53639e-17	1.000000
rad38	2.26965e-17	1.000000	2.26965e-17	1.000000
rad14	1.96673e-18	1.000000	1.96673e-18	1.000000
rad46	1.22662e-19	1.000000	1.22662e-19	1.000000
rad60syn	8.84960e-20	1.000000	8.84960e-20	1.000000
PAH7+H	6.87225e-20	1.000000	6.87225e-20	1.000000
rad10	6.13325e-20	1.000000	6.13325e-20	1.000000
PAH9+H	3.85841e-20	1.000000	3.85841e-20	1.000000
rad35	2.16216e-20	1.000000	2.16216e-20	1.000000
rad60anti	1.62906e-20	1.000000	1.62906e-20	1.000000
Ph+MeAc	1.04188e-20	1.000000	1.04188e-20	1.000000
rad31	5.45645e-21	1.000000	5.45645e-21	1.000000
rad27	1.05821e-22	1.000000	1.05821e-22	1.000000
PhCCCH3+H	6.17769e-23	1.000000	6.17769e-23	1.000000
rad39	1.08974e-23	1.000000	1.08974e-23	1.000000
rad26	1.34881e-24	1.000000	1.34881e-24	1.000000
PAH3+H	3.15975e-25	1.000000	3.15975e-25	1.000000
rad59	1.42246e-25	1.000000	1.42246e-25	1.000000
rad50	4.09316e-28	1.000000	4.09316e-28	1.000000
rad5	3.47839e-31	1.000000	3.47839e-31	1.000000
rad19syn	2.51090e-32	1.000000	2.51090e-32	1.000000
rad12	3.54888e-33	1.000000	3.54888e-33	1.000000
rad54	4.00725e-34	1.000000	4.00725e-34	1.000000
rad37	8.80239e-35	1.000000	8.80239e-35	1.000000
rad52	3.61743e-35	1.000000	3.61743e-35	1.000000
rad70	7.33707e-38	1.000000	7.33707e-38	1.000000
rad51	3.20715e-39	1.000000	3.20715e-39	1.000000
rad62	1.05843e-39	1.000000	1.05843e-39	1.000000
rad55	1.04924e-40	1.000000	1.04924e-40	1.000000
PhcycC3H3_A+H	1.97593e-41	1.000000	1.97593e-41	1.000000
rad58	1.75198e-41	1.000000	1.75198e-41	1.000000
rad43	1.27421e-41	1.000000	1.27421e-41	1.000000
rad34	5.25815e-43	1.000000	5.25815e-43	1.000000
PAH10+CH3	1.09703e-44	1.000000	1.09703e-44	1.000000
rad65	6.49520e-45	1.000000	6.49520e-45	1.000000
rad47	1.33642e-45	1.000000	1.33642e-45	1.000000
PAH1+H	8.37086e-48	1.000000	8.37086e-48	1.000000
rad42	7.43307e-50	1.000000	7.43307e-50	1.000000
rad41	7.47958e-53	1.000000	7.47958e-53	1.000000

100000.000 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14498e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.975599	0.975599	0.975599	0.975599
rad6	0.0242159	0.999814	0.0242159	0.999814
rad21	6.71671e-05	0.999882	6.71671e-05	0.999882
Benzene+2-propynyl	6.70630e-05	0.999949	6.70630e-05	0.999949
rad20	3.11002e-05	0.999980	3.11002e-05	0.999980
rad22	1.63375e-05	0.999996	1.63375e-05	0.999996
rad45	1.95907e-06	0.999998	1.95907e-06	0.999998
rad18	1.61852e-06	1.000000	1.61852e-06	1.000000
rad13	1.75852e-07	1.000000	1.75852e-07	1.000000
rad36	1.25842e-07	1.000000	1.25842e-07	1.000000
rad7	8.61870e-08	1.000000	8.61870e-08	1.000000
Indene+H	7.40010e-08	1.000000	7.40010e-08	1.000000
rad25	5.88921e-08	1.000000	5.88921e-08	1.000000
C2H2+PhCH2	1.98444e-08	1.000000	1.98444e-08	1.000000
rad23	1.17955e-08	1.000000	1.17955e-08	1.000000
PhCHCCH2+H	4.69062e-09	1.000000	4.69062e-09	1.000000
rad24	1.52159e-09	1.000000	1.52159e-09	1.000000
rad33	9.20694e-10	1.000000	9.20694e-10	1.000000
rad9	2.78881e-10	1.000000	2.78881e-10	1.000000
Phenyl+Allene	2.76429e-11	1.000000	0.000000	1.000000
rad3	1.94393e-11	1.000000	1.94393e-11	1.000000
rad4	1.03795e-11	1.000000	1.03795e-11	1.000000
rad28	9.58395e-13	1.000000	9.58395e-13	1.000000
rad30	2.49044e-14	1.000000	2.49044e-14	1.000000
rad2	6.96487e-15	1.000000	6.96487e-15	1.000000
rad15	4.01541e-15	1.000000	4.01541e-15	1.000000
PhCH2CCH+H	3.40515e-15	1.000000	3.40515e-15	1.000000
rad8	6.64828e-16	1.000000	6.64828e-16	1.000000
rad1	5.09963e-16	1.000000	5.09963e-16	1.000000
PhCCH+CH3	9.44414e-17	1.000000	9.44414e-17	1.000000
rad38	3.63237e-17	1.000000	3.63237e-17	1.000000
rad14	5.03649e-18	1.000000	5.03649e-18	1.000000
PAH7+H	2.74584e-19	1.000000	2.74584e-19	1.000000
rad46	2.09273e-19	1.000000	2.09273e-19	1.000000
rad60syn	2.00411e-19	1.000000	2.00411e-19	1.000000
rad10	1.79167e-19	1.000000	1.79167e-19	1.000000
PAH9+H	7.07828e-20	1.000000	7.07828e-20	1.000000
rad60anti	4.05612e-20	1.000000	4.05612e-20	1.000000
rad35	3.93082e-20	1.000000	3.93082e-20	1.000000
Ph+MeAc	3.41315e-20	1.000000	3.41315e-20	1.000000
rad31	1.09735e-20	1.000000	1.09735e-20	1.000000
rad27	3.24454e-22	1.000000	3.24454e-22	1.000000
PhCCCH3+H	2.04978e-22	1.000000	2.04978e-22	1.000000
rad39	3.36501e-23	1.000000	3.36501e-23	1.000000
rad26	6.91864e-24	1.000000	6.91864e-24	1.000000
PAH3+H	1.93988e-24	1.000000	1.93988e-24	1.000000
rad59	8.50656e-25	1.000000	8.50656e-25	1.000000
rad50	2.27196e-27	1.000000	2.27196e-27	1.000000
rad5	2.60447e-30	1.000000	2.60447e-30	1.000000
rad19syn	5.19204e-31	1.000000	5.19204e-31	1.000000
rad12	2.21762e-32	1.000000	2.21762e-32	1.000000
rad54	1.19141e-32	1.000000	1.19141e-32	1.000000
rad37	5.89644e-34	1.000000	5.89644e-34	1.000000
rad52	4.52745e-34	1.000000	4.52745e-34	1.000000
rad70	1.52858e-36	1.000000	1.52858e-36	1.000000
rad51	6.00542e-38	1.000000	6.00542e-38	1.000000
rad62	3.37020e-38	1.000000	3.37020e-38	1.000000
rad55	3.99199e-39	1.000000	3.99199e-39	1.000000
PhcycC3H3_A+H	7.47943e-40	1.000000	7.47943e-40	1.000000
rad43	3.81340e-40	1.000000	3.81340e-40	1.000000
rad58	3.76450e-40	1.000000	3.76450e-40	1.000000
rad34	1.26341e-41	1.000000	1.26341e-41	1.000000
PAH10+CH3	1.96923e-43	1.000000	1.96923e-43	1.000000
rad65	1.47910e-43	1.000000	1.47910e-43	1.000000
rad47	4.05933e-44	1.000000	4.05933e-44	1.000000
PAH1+H	3.68425e-46	1.000000	3.68425e-46	1.000000
rad42	4.95846e-48	1.000000	4.95846e-48	1.000000
rad41	5.74074e-51	1.000000	5.74074e-51	1.000000

100000.000 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06527e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44008e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.965965	0.965965	0.965965	0.965965
rad6	0.0337172	0.999682	0.0337172	0.999682
Benzene+2-propynyl	0.000183695	0.999865	0.000183695	0.999865
rad21	7.24391e-05	0.999938	7.24391e-05	0.999938
rad20	3.68186e-05	0.999975	3.68186e-05	0.999975
rad22	2.00644e-05	0.999995	2.00644e-05	0.999995
rad45	2.43391e-06	0.999997	2.43391e-06	0.999997
rad18	2.17841e-06	0.999999	2.17841e-06	0.999999
rad13	2.68630e-07	1.000000	2.68630e-07	1.000000
rad36	1.55883e-07	1.000000	1.55883e-07	1.000000
rad7	1.39369e-07	1.000000	1.39369e-07	1.000000
Indene+H	1.10493e-07	1.000000	1.10493e-07	1.000000
rad25	6.92607e-08	1.000000	6.92607e-08	1.000000
C2H2+PhCH2	2.84907e-08	1.000000	2.84907e-08	1.000000
rad23	1.65752e-08	1.000000	1.65752e-08	1.000000
PhCHCCH2+H	5.87602e-09	1.000000	5.87602e-09	1.000000
rad24	1.43976e-09	1.000000	1.43976e-09	1.000000
rad33	1.34176e-09	1.000000	1.34176e-09	1.000000
rad9	3.57856e-10	1.000000	3.57856e-10	1.000000
Phenyl+Allene	4.52222e-11	1.000000	0.000000	1.000000
rad3	3.56067e-11	1.000000	3.56067e-11	1.000000
rad4	1.89757e-11	1.000000	1.89757e-11	1.000000
rad28	1.81215e-12	1.000000	1.81215e-12	1.000000
rad30	4.19433e-14	1.000000	4.19433e-14	1.000000
rad2	1.51910e-14	1.000000	1.51910e-14	1.000000
PhCH2CCH+H	1.25022e-14	1.000000	1.25022e-14	1.000000
rad15	6.90199e-15	1.000000	6.90199e-15	1.000000
rad8	1.28245e-15	1.000000	1.28245e-15	1.000000
rad1	1.10763e-15	1.000000	1.10763e-15	1.000000
PhCCH+CH3	2.28543e-16	1.000000	2.28543e-16	1.000000
rad38	5.69074e-17	1.000000	5.69074e-17	1.000000
rad14	1.16538e-17	1.000000	1.16538e-17	1.000000
PAH7+H	1.03264e-18	1.000000	1.03264e-18	1.000000
rad10	4.69491e-19	1.000000	4.69491e-19	1.000000
rad60syn	4.44631e-19	1.000000	4.44631e-19	1.000000
rad46	3.51552e-19	1.000000	3.51552e-19	1.000000
PAH9+H	1.26483e-19	1.000000	1.26483e-19	1.000000
Ph+MeAc	1.01756e-19	1.000000	1.01756e-19	1.000000
rad60anti	9.81635e-20	1.000000	9.81635e-20	1.000000
rad35	6.96043e-20	1.000000	6.96043e-20	1.000000
rad31	2.01773e-20	1.000000	2.01773e-20	1.000000
rad27	8.95777e-22	1.000000	8.95777e-22	1.000000
PhCCCH3+H	6.16833e-22	1.000000	6.16833e-22	1.000000
rad39	9.49693e-23	1.000000	9.49693e-23	1.000000
rad26	3.43789e-23	1.000000	3.43789e-23	1.000000
PAH3+H	1.21623e-23	1.000000	1.21623e-23	1.000000
rad59	5.14679e-24	1.000000	5.14679e-24	1.000000
rad50	1.25549e-26	1.000000	1.25549e-26	1.000000
rad5	1.73618e-29	1.000000	1.73618e-29	1.000000
rad19syn	1.17785e-29	1.000000	1.17785e-29	1.000000
rad54	4.69191e-31	1.000000	4.69191e-31	1.000000
rad12	1.39179e-31	1.000000	1.39179e-31	1.000000
rad52	6.94072e-33	1.000000	6.94072e-33	1.000000
rad37	4.09730e-33	1.000000	4.09730e-33	1.000000
rad70	6.42032e-35	1.000000	6.42032e-35	1.000000
rad51	1.61346e-36	1.000000	1.61346e-36	1.000000
rad62	1.31047e-36	1.000000	1.31047e-36	1.000000
rad55	3.18498e-37	1.000000	3.18498e-37	1.000000
PhcycC3H3_A+H	5.30707e-38	1.000000	5.30707e-38	1.000000
rad58	1.50477e-38	1.000000	1.50477e-38	1.000000
rad43	1.26394e-38	1.000000	1.26394e-38	1.000000
rad34	6.32868e-40	1.000000	6.32868e-40	1.000000
PAH10+CH3	6.13328e-42	1.000000	6.13328e-42	1.000000
rad65	5.19835e-42	1.000000	5.19835e-42	1.000000
rad47	1.94869e-42	1.000000	1.94869e-42	1.000000
PAH1+H	3.23399e-44	1.000000	3.23399e-44	1.000000
rad42	4.97174e-46	1.000000	4.97174e-46	1.000000
rad41	6.25068e-49	1.000000	6.25068e-49	1.000000

100000.000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.955004	0.955004	0.955004	0.955004
rad6	0.0444248	0.999428	0.0444248	0.999428
Benzene+2-propynyl	0.000420064	0.999849	0.000420064	0.999849
rad21	7.75961e-05	0.999926	7.75961e-05	0.999926
rad20	4.28910e-05	0.999969	4.28910e-05	0.999969
rad22	2.42789e-05	0.999993	2.42789e-05	0.999993
rad45	2.98085e-06	0.999996	2.98085e-06	0.999996
rad18	2.86442e-06	0.999999	2.86442e-06	0.999999
rad13	3.83522e-07	1.000000	3.83522e-07	1.000000
rad7	2.10940e-07	1.000000	2.10940e-07	1.000000
rad36	1.90470e-07	1.000000	1.90470e-07	1.000000
Indene+H	1.60898e-07	1.000000	1.60898e-07	1.000000
rad25	8.10283e-08	1.000000	8.10283e-08	1.000000
C2H2+PhCH2	4.01499e-08	1.000000	4.01499e-08	1.000000
rad23	2.27974e-08	1.000000	2.27974e-08	1.000000
PhCHCCH2+H	7.35480e-09	1.000000	7.35480e-09	1.000000
rad33	1.82935e-09	1.000000	1.82935e-09	1.000000
rad24	1.36991e-09	1.000000	1.36991e-09	1.000000
rad9	4.59113e-10	1.000000	4.59113e-10	1.000000
Phenyl+Allene	7.30743e-11	1.000000	0.000000	1.000000
rad3	6.05351e-11	1.000000	6.05351e-11	1.000000
rad4	3.22139e-11	1.000000	3.22139e-11	1.000000
rad28	3.18477e-12	1.000000	3.18477e-12	1.000000
rad30	6.91792e-14	1.000000	6.91792e-14	1.000000
PhCH2CCH+H	4.10719e-14	1.000000	4.10719e-14	1.000000
rad2	3.06405e-14	1.000000	3.06405e-14	1.000000
rad15	1.16390e-14	1.000000	1.16390e-14	1.000000
rad8	2.44793e-15	1.000000	2.44793e-15	1.000000
rad1	2.22772e-15	1.000000	2.22772e-15	1.000000
PhCCH+CH3	5.15036e-16	1.000000	5.15036e-16	1.000000
rad38	8.80309e-17	1.000000	8.80309e-17	1.000000
rad14	2.50342e-17	1.000000	2.50342e-17	1.000000
PAH7+H	3.62817e-18	1.000000	3.62817e-18	1.000000
rad10	1.13723e-18	1.000000	1.13723e-18	1.000000
rad60syn	9.73408e-19	1.000000	9.73408e-19	1.000000
rad46	5.86580e-19	1.000000	5.86580e-19	1.000000
Ph+MeAc	2.83402e-19	1.000000	2.83402e-19	1.000000
rad60anti	2.32504e-19	1.000000	2.32504e-19	1.000000
PAH9+H	2.22673e-19	1.000000	2.22673e-19	1.000000
rad35	1.21541e-19	1.000000	1.21541e-19	1.000000
rad31	3.46922e-20	1.000000	3.46922e-20	1.000000
rad27	2.29500e-21	1.000000	2.29500e-21	1.000000
PhCCCH3+H	1.73573e-21	1.000000	1.73573e-21	1.000000
rad39	2.51695e-22	1.000000	2.51695e-22	1.000000
rad26	1.54657e-22	1.000000	1.54657e-22	1.000000
PAH3+H	7.20592e-23	1.000000	7.20592e-23	1.000000
rad59	2.92631e-23	1.000000	2.92631e-23	1.000000
rad50	6.52030e-26	1.000000	6.52030e-26	1.000000
rad19syn	2.25273e-28	1.000000	2.25273e-28	1.000000
rad5	1.04119e-28	1.000000	1.04119e-28	1.000000
rad54	1.52698e-29	1.000000	1.52698e-29	1.000000
rad12	8.17561e-31	1.000000	8.17561e-31	1.000000
rad52	1.06720e-31	1.000000	1.06720e-31	1.000000
rad37	2.72664e-32	1.000000	2.72664e-32	1.000000
rad70	4.33872e-33	1.000000	4.33872e-33	1.000000
rad51	4.99980e-35	1.000000	4.99980e-35	1.000000
rad62	4.91608e-35	1.000000	4.91608e-35	1.000000
rad55	3.75776e-35	1.000000	3.75776e-35	1.000000
PhcycC3H3_A+H	5.01459e-36	1.000000	5.01459e-36	1.000000
rad58	9.11692e-37	1.000000	9.11692e-37	1.000000
rad43	3.94013e-37	1.000000	3.94013e-37	1.000000
rad34	5.38625e-38	1.000000	5.38625e-38	1.000000
rad65	2.34272e-40	1.000000	2.34272e-40	1.000000
PAH10+CH3	2.28194e-40	1.000000	2.28194e-40	1.000000
rad47	1.23147e-40	1.000000	1.23147e-40	1.000000
PAH1+H	4.11060e-42	1.000000	4.11060e-42	1.000000
rad42	6.03442e-44	1.000000	6.03442e-44	1.000000
rad41	7.87860e-47	1.000000	7.87860e-47	1.000000

100000.000 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
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Total	1.33719e-19 (1.00)	1.33719e-19 (1.00)
Formation of rad11	1.26517e-19 (0.946)	1.26517e-19 (0.946)
Formation of rad6	7.08974e-21 (0.0530)	7.08974e-21 (0.0530)
H-abstraction	1.11864e-22 (0.000837)	1.11864e-22 (0.000837)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.942967	0.942967	0.942967	0.942967
rad6	0.0560257	0.998993	0.0560257	0.998993
Benzene+2-propynyl	0.000836559	0.999830	0.000836559	0.999830
rad21	8.27015e-05	0.999912	8.27015e-05	0.999912
rad20	4.93303e-05	0.999962	4.93303e-05	0.999962
rad22	2.90504e-05	0.999991	2.90504e-05	0.999991
rad18	3.69857e-06	0.999995	3.69857e-06	0.999995
rad45	3.61200e-06	0.999998	3.61200e-06	0.999998
rad13	5.19176e-07	0.999999	5.19176e-07	0.999999
rad7	3.03290e-07	0.999999	3.03290e-07	0.999999
rad36	2.30388e-07	0.999999	2.30388e-07	0.999999
Indene+H	2.29913e-07	0.999999	2.29913e-07	0.999999
rad25	9.44937e-08	1.000000	9.44937e-08	1.000000
C2H2+PhCH2	5.58377e-08	1.000000	5.58377e-08	1.000000
rad23	3.08645e-08	1.000000	3.08645e-08	1.000000
PhCHCCH2+H	9.21696e-09	1.000000	9.21696e-09	1.000000
rad33	2.36726e-09	1.000000	2.36726e-09	1.000000
rad24	1.31044e-09	1.000000	1.31044e-09	1.000000
rad9	5.90022e-10	1.000000	5.90022e-10	1.000000
Phenyl+Allene	1.16889e-10	1.000000	0.000000	1.000000
rad3	9.71632e-11	1.000000	9.71632e-11	1.000000
rad4	5.16506e-11	1.000000	5.16506e-11	1.000000
rad28	5.29252e-12	1.000000	5.29252e-12	1.000000
PhCH2CCH+H	1.21329e-13	1.000000	1.21329e-13	1.000000
rad30	1.12563e-13	1.000000	1.12563e-13	1.000000
rad2	5.82692e-14	1.000000	5.82692e-14	1.000000
rad15	1.93961e-14	1.000000	1.93961e-14	1.000000
rad8	4.63814e-15	1.000000	4.63814e-15	1.000000
rad1	4.22919e-15	1.000000	4.22919e-15	1.000000
PhCCH+CH3	1.10221e-15	1.000000	1.10221e-15	1.000000
rad38	1.35334e-16	1.000000	1.35334e-16	1.000000
rad14	5.09075e-17	1.000000	5.09075e-17	1.000000
PAH7+H	1.18795e-17	1.000000	1.18795e-17	1.000000
rad10	2.60243e-18	1.000000	2.60243e-18	1.000000
rad60syn	2.11182e-18	1.000000	2.11182e-18	1.000000
rad46	9.78379e-19	1.000000	9.78379e-19	1.000000
Ph+MeAc	7.50784e-19	1.000000	7.50784e-19	1.000000
rad60anti	5.41334e-19	1.000000	5.41334e-19	1.000000
PAH9+H	3.89601e-19	1.000000	3.89601e-19	1.000000
rad35	2.11450e-19	1.000000	2.11450e-19	1.000000
rad31	5.66912e-20	1.000000	5.66912e-20	1.000000
rad27	5.57530e-21	1.000000	5.57530e-21	1.000000
PhCCCH3+H	4.66790e-21	1.000000	4.66790e-21	1.000000
rad39	6.38316e-22	1.000000	6.38316e-22	1.000000
rad26	6.18150e-22	1.000000	6.18150e-22	1.000000
PAH3+H	3.87410e-22	1.000000	3.87410e-22	1.000000
rad59	1.50671e-22	1.000000	1.50671e-22	1.000000
rad50	3.10193e-25	1.000000	3.10193e-25	1.000000
rad19syn	3.28083e-27	1.000000	3.28083e-27	1.000000
rad5	5.68321e-28	1.000000	5.68321e-28	1.000000
rad54	3.47281e-28	1.000000	3.47281e-28	1.000000
rad12	4.39524e-30	1.000000	4.39524e-30	1.000000
rad52	1.42397e-30	1.000000	1.42397e-30	1.000000
rad70	3.43822e-31	1.000000	3.43822e-31	1.000000
rad37	1.68263e-31	1.000000	1.68263e-31	1.000000
rad55	2.51344e-33	1.000000	2.51344e-33	1.000000
rad62	1.48581e-33	1.000000	1.48581e-33	1.000000
rad51	1.36976e-33	1.000000	1.36976e-33	1.000000
PhcycC3H3_A+H	3.37808e-34	1.000000	3.37808e-34	1.000000
rad58	6.17984e-35	1.000000	6.17984e-35	1.000000
rad43	1.02132e-35	1.000000	1.02132e-35	1.000000
rad34	6.01496e-36	1.000000	6.01496e-36	1.000000
rad65	1.03555e-38	1.000000	1.03555e-38	1.000000
rad47	8.28257e-39	1.000000	8.28257e-39	1.000000
PAH10+CH3	7.15265e-39	1.000000	7.15265e-39	1.000000
PAH1+H	4.87751e-40	1.000000	4.87751e-40	1.000000
rad42	6.69106e-42	1.000000	6.69106e-42	1.000000
rad41	8.86332e-45	1.000000	8.86332e-45	1.000000

100000.000 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	3.59582e-19 (1.00)	3.59582e-19 (1.00)
Formation of rad11	3.35703e-19 (0.934)	3.35703e-19 (0.934)
Formation of rad6	2.33415e-20 (0.0649)	2.33415e-20 (0.0649)
H-abstraction	5.37685e-22 (0.00150)	5.37685e-22 (0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.930093	0.930093	0.930093	0.930093
rad6	0.0682225	0.998316	0.0682225	0.998316
Benzene+2-propynyl	0.00149531	0.999811	0.00149531	0.999811
rad21	8.78155e-05	0.999899	8.78155e-05	0.999899
rad20	5.61565e-05	0.999955	5.61565e-05	0.999955
rad22	3.44663e-05	0.999989	3.44663e-05	0.999989
rad18	4.70762e-06	0.999994	4.70762e-06	0.999994
rad45	4.34260e-06	0.999998	4.34260e-06	0.999998
rad13	6.73515e-07	0.999999	6.73515e-07	0.999999
rad7	4.18833e-07	1.000000	4.18833e-07	1.000000
Indene+H	3.23893e-07	1.000000	3.23893e-07	1.000000
rad36	2.76631e-07	1.000000	2.76631e-07	1.000000
rad25	1.10020e-07	1.000000	1.10020e-07	1.000000
C2H2+PhCH2	7.69465e-08	1.000000	7.69465e-08	1.000000
rad23	4.13112e-08	1.000000	4.13112e-08	1.000000
PhCHCCH2+H	1.15823e-08	1.000000	1.15823e-08	1.000000
rad33	2.93863e-09	1.000000	2.93863e-09	1.000000
rad24	1.26008e-09	1.000000	1.26008e-09	1.000000
rad9	7.60545e-10	1.000000	7.60545e-10	1.000000
Phenyl+Allene	1.85397e-10	1.000000	0.000000	1.000000
rad3	1.49092e-10	1.000000	1.49092e-10	1.000000
rad4	7.91977e-11	1.000000	7.91977e-11	1.000000
rad28	8.42225e-12	1.000000	8.42225e-12	1.000000
PhCH2CCH+H	3.26679e-13	1.000000	3.26679e-13	1.000000
rad30	1.81657e-13	1.000000	1.81657e-13	1.000000
rad2	1.05976e-13	1.000000	1.05976e-13	1.000000
rad15	3.21113e-14	1.000000	3.21113e-14	1.000000
rad8	8.73674e-15	1.000000	8.73674e-15	1.000000
rad1	7.68639e-15	1.000000	7.68639e-15	1.000000
PhCCH+CH3	2.27212e-15	1.000000	2.27212e-15	1.000000
rad38	2.07796e-16	1.000000	2.07796e-16	1.000000
rad14	9.94037e-17	1.000000	9.94037e-17	1.000000
PAH7+H	3.63473e-17	1.000000	3.63473e-17	1.000000
rad10	5.71771e-18	1.000000	5.71771e-18	1.000000
rad60syn	4.55042e-18	1.000000	4.55042e-18	1.000000
Ph+MeAc	1.91550e-18	1.000000	1.91550e-18	1.000000
rad46	1.63887e-18	1.000000	1.63887e-18	1.000000
rad60anti	1.24223e-18	1.000000	1.24223e-18	1.000000
PAH9+H	6.82027e-19	1.000000	6.82027e-19	1.000000
rad35	3.69822e-19	1.000000	3.69822e-19	1.000000
rad31	8.91141e-20	1.000000	8.91141e-20	1.000000
rad27	1.30445e-20	1.000000	1.30445e-20	1.000000
PhCCCH3+H	1.21851e-20	1.000000	1.21851e-20	1.000000
rad26	2.20775e-21	1.000000	2.20775e-21	1.000000
PAH3+H	1.86999e-21	1.000000	1.86999e-21	1.000000
rad39	1.56925e-21	1.000000	1.56925e-21	1.000000
rad59	6.96642e-22	1.000000	6.96642e-22	1.000000
rad50	1.34698e-24	1.000000	1.34698e-24	1.000000
rad19syn	3.63194e-26	1.000000	3.63194e-26	1.000000
rad54	5.52521e-27	1.000000	5.52521e-27	1.000000
rad5	2.85703e-27	1.000000	2.85703e-27	1.000000
rad12	2.16703e-29	1.000000	2.16703e-29	1.000000
rad70	1.63326e-29	1.000000	1.63326e-29	1.000000
rad52	1.56123e-29	1.000000	1.56123e-29	1.000000
rad37	9.57684e-31	1.000000	9.57684e-31	1.000000
rad55	1.00970e-31	1.000000	1.00970e-31	1.000000
rad62	3.41490e-32	1.000000	3.41490e-32	1.000000
rad51	2.93918e-32	1.000000	2.93918e-32	1.000000
PhcycC3H3_A+H	1.47571e-32	1.000000	1.47571e-32	1.000000
rad58	3.13294e-33	1.000000	3.13294e-33	1.000000
rad34	6.66023e-34	1.000000	6.66023e-34	1.000000
rad43	2.10665e-34	1.000000	2.10665e-34	1.000000
rad47	4.79911e-37	1.000000	4.79911e-37	1.000000
rad65	3.53318e-37	1.000000	3.53318e-37	1.000000
PAH10+CH3	1.70125e-37	1.000000	1.70125e-37	1.000000
PAH1+H	5.21748e-38	1.000000	5.21748e-38	1.000000
rad42	7.29963e-40	1.000000	7.29963e-40	1.000000
rad41	9.13404e-43	1.000000	9.13404e-43	1.000000

100000.000 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
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Total	8.51464e-19 (1.00)	8.51464e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83711e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56651e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.916586	0.916586	0.916586	0.916586
rad6	0.0807514	0.997337	0.0807514	0.997337
Benzene+2-propynyl	0.00245244	0.999789	0.00245244	0.999789
rad21	9.29955e-05	0.999882	9.29955e-05	0.999882
rad20	6.33948e-05	0.999946	6.33948e-05	0.999946
rad22	4.06341e-05	0.999986	4.06341e-05	0.999986
rad18	5.92379e-06	0.999992	5.92379e-06	0.999992
rad45	5.19157e-06	0.999998	5.19157e-06	0.999998
rad13	8.44020e-07	0.999998	8.44020e-07	0.999998
rad7	5.60156e-07	0.999999	5.60156e-07	0.999999
Indene+H	4.51473e-07	0.999999	4.51473e-07	0.999999
rad36	3.30431e-07	1.000000	3.30431e-07	1.000000
rad25	1.28050e-07	1.000000	1.28050e-07	1.000000
C2H2+PhCH2	1.05387e-07	1.000000	1.05387e-07	1.000000
rad23	5.48521e-08	1.000000	5.48521e-08	1.000000
PhCHCCH2+H	1.46105e-08	1.000000	1.46105e-08	1.000000
rad33	3.52750e-09	1.000000	3.52750e-09	1.000000
rad24	1.21783e-09	1.000000	1.21783e-09	1.000000
rad9	9.84157e-10	1.000000	9.84157e-10	1.000000
Phenyl+Allene	2.91938e-10	1.000000	0.000000	1.000000
rad3	2.20771e-10	1.000000	2.20771e-10	1.000000
rad4	1.17226e-10	1.000000	1.17226e-10	1.000000
rad28	1.29561e-11	1.000000	1.29561e-11	1.000000
PhCH2CCH+H	8.13239e-13	1.000000	8.13239e-13	1.000000
rad30	2.91899e-13	1.000000	2.91899e-13	1.000000
rad2	1.86318e-13	1.000000	1.86318e-13	1.000000
rad15	5.30099e-14	1.000000	5.30099e-14	1.000000
rad8	1.63691e-14	1.000000	1.63691e-14	1.000000
rad1	1.35170e-14	1.000000	1.35170e-14	1.000000
PhCCH+CH3	4.55871e-15	1.000000	4.55871e-15	1.000000
rad38	3.19866e-16	1.000000	3.19866e-16	1.000000
rad14	1.88350e-16	1.000000	1.88350e-16	1.000000
PAH7+H	1.04530e-16	1.000000	1.04530e-16	1.000000
rad10	1.22066e-17	1.000000	1.22066e-17	1.000000
rad60syn	9.74548e-18	1.000000	9.74548e-18	1.000000
Ph+MeAc	4.74616e-18	1.000000	4.74616e-18	1.000000
rad60anti	2.81334e-18	1.000000	2.81334e-18	1.000000
rad46	2.76585e-18	1.000000	2.76585e-18	1.000000
PAH9+H	1.20068e-18	1.000000	1.20068e-18	1.000000
rad35	6.55415e-19	1.000000	6.55415e-19	1.000000
rad31	1.35985e-19	1.000000	1.35985e-19	1.000000
PhCCCH3+H	3.12077e-20	1.000000	3.12077e-20	1.000000
rad27	2.97209e-20	1.000000	2.97209e-20	1.000000
PAH3+H	8.13924e-21	1.000000	8.13924e-21	1.000000
rad26	7.14405e-21	1.000000	7.14405e-21	1.000000
rad39	3.77221e-21	1.000000	3.77221e-21	1.000000
rad59	2.90849e-21	1.000000	2.90849e-21	1.000000
rad50	5.37448e-24	1.000000	5.37448e-24	1.000000
rad19syn	3.14963e-25	1.000000	3.14963e-25	1.000000
rad54	6.42128e-26	1.000000	6.42128e-26	1.000000
rad5	1.33709e-26	1.000000	1.33709e-26	1.000000
rad70	4.65471e-28	1.000000	4.65471e-28	1.000000
rad52	1.40244e-28	1.000000	1.40244e-28	1.000000
rad12	9.89559e-29	1.000000	9.89559e-29	1.000000
rad37	5.04980e-30	1.000000	5.04980e-30	1.000000
rad55	2.53254e-30	1.000000	2.53254e-30	1.000000
rad62	5.95544e-31	1.000000	5.95544e-31	1.000000
rad51	4.84616e-31	1.000000	4.84616e-31	1.000000
PhcycC3H3_A+H	4.07923e-31	1.000000	4.07923e-31	1.000000
rad58	1.03223e-31	1.000000	1.03223e-31	1.000000
rad34	6.37938e-32	1.000000	6.37938e-32	1.000000
rad43	3.44927e-33	1.000000	3.44927e-33	1.000000
rad47	2.02667e-35	1.000000	2.02667e-35	1.000000
rad65	8.93090e-36	1.000000	8.93090e-36	1.000000
PAH10+CH3	3.09592e-36	1.000000	3.09592e-36	1.000000
PAH1+H	2.47081e-36	1.000000	2.47081e-36	1.000000
rad42	5.19828e-38	1.000000	5.19828e-38	1.000000
rad41	6.25623e-41	1.000000	6.25623e-41	1.000000

100000.000 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
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Total	1.81800e-18 (1.00)	1.81800e-18 (1.00)
Formation of rad11	1.64862e-18 (0.907)	1.64862e-18 (0.907)
Formation of rad6	1.62558e-19 (0.0894)	1.62558e-19 (0.0894)
H-abstraction	6.82130e-21 (0.00375)	6.82130e-21 (0.00375)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.902625	0.902625	0.902625	0.902625
rad6	0.0933897	0.996014	0.0933897	0.996014
Benzene+2-propynyl	0.00375209	0.999766	0.00375209	0.999766
rad21	9.82951e-05	0.999865	9.82951e-05	0.999865
rad20	7.10740e-05	0.999936	7.10740e-05	0.999936
rad22	4.76844e-05	0.999983	4.76844e-05	0.999983
rad18	7.38567e-06	0.999991	7.38567e-06	0.999991
rad45	6.18223e-06	0.999997	6.18223e-06	0.999997
rad13	1.02795e-06	0.999998	1.02795e-06	0.999998
rad7	7.30178e-07	0.999999	7.30178e-07	0.999999
Indene+H	6.24381e-07	0.999999	6.24381e-07	0.999999
rad36	3.93319e-07	1.000000	3.93319e-07	1.000000
rad25	1.49115e-07	1.000000	1.49115e-07	1.000000
C2H2+PhCH2	1.43784e-07	1.000000	1.43784e-07	1.000000
rad23	7.24450e-08	1.000000	7.24450e-08	1.000000
PhCHCCH2+H	1.85145e-08	1.000000	1.85145e-08	1.000000
rad33	4.11970e-09	1.000000	4.11970e-09	1.000000
rad9	1.27910e-09	1.000000	1.27910e-09	1.000000
rad24	1.18286e-09	1.000000	1.18286e-09	1.000000
Phenyl+Allene	4.56790e-10	1.000000	0.000000	1.000000
rad3	3.17747e-10	1.000000	3.17747e-10	1.000000
rad4	1.68700e-10	1.000000	1.68700e-10	1.000000
rad28	1.94052e-11	1.000000	1.94052e-11	1.000000
PhCH2CCH+H	1.89559e-12	1.000000	1.89559e-12	1.000000
rad30	4.68254e-13	1.000000	4.68254e-13	1.000000
rad2	3.19241e-13	1.000000	3.19241e-13	1.000000
rad15	8.74672e-14	1.000000	8.74672e-14	1.000000
rad8	3.04972e-14	1.000000	3.04972e-14	1.000000
rad1	2.31866e-14	1.000000	2.31866e-14	1.000000
PhCCH+CH3	8.96918e-15	1.000000	8.96918e-15	1.000000
rad38	4.95008e-16	1.000000	4.95008e-16	1.000000
rad14	3.49003e-16	1.000000	3.49003e-16	1.000000
PAH7+H	2.84478e-16	1.000000	2.84478e-16	1.000000
rad10	2.55485e-17	1.000000	2.55485e-17	1.000000
rad60syn	2.07399e-17	1.000000	2.07399e-17	1.000000
Ph+MeAc	1.14839e-17	1.000000	1.14839e-17	1.000000
rad60anti	6.29091e-18	1.000000	6.29091e-18	1.000000
rad46	4.71227e-18	1.000000	4.71227e-18	1.000000
PAH9+H	2.13358e-18	1.000000	2.13358e-18	1.000000
rad35	1.18485e-18	1.000000	1.18485e-18	1.000000
rad31	2.02867e-19	1.000000	2.02867e-19	1.000000
PhCCCH3+H	7.89744e-20	1.000000	7.89744e-20	1.000000
rad27	6.64462e-20	1.000000	6.64462e-20	1.000000
PAH3+H	3.22581e-20	1.000000	3.22581e-20	1.000000
rad26	2.12572e-20	1.000000	2.12572e-20	1.000000
rad59	1.10787e-20	1.000000	1.10787e-20	1.000000
rad39	8.91508e-21	1.000000	8.91508e-21	1.000000
rad50	1.98991e-23	1.000000	1.98991e-23	1.000000
rad19syn	2.21698e-24	1.000000	2.21698e-24	1.000000
rad54	5.71944e-25	1.000000	5.71944e-25	1.000000
rad5	5.87877e-26	1.000000	5.87877e-26	1.000000
rad70	9.04739e-27	1.000000	9.04739e-27	1.000000
rad52	1.05023e-27	1.000000	1.05023e-27	1.000000
rad12	4.22891e-28	1.000000	4.22891e-28	1.000000
rad55	4.40201e-29	1.000000	4.40201e-29	1.000000
rad37	2.48360e-29	1.000000	2.48360e-29	1.000000
rad62	8.10110e-30	1.000000	8.10110e-30	1.000000
PhcycC3H3_A+H	7.91582e-30	1.000000	7.91582e-30	1.000000
rad51	6.24601e-30	1.000000	6.24601e-30	1.000000
rad34	2.83180e-30	1.000000	2.83180e-30	1.000000
rad58	2.33779e-30	1.000000	2.33779e-30	1.000000
rad43	4.57219e-32	1.000000	4.57219e-32	1.000000
rad47	5.56668e-34	1.000000	5.56668e-34	1.000000
rad65	1.70276e-34	1.000000	1.70276e-34	1.000000
PAH1+H	7.35537e-35	1.000000	7.35537e-35	1.000000
PAH10+CH3	4.44619e-35	1.000000	4.44619e-35	1.000000
rad42	2.21891e-36	1.000000	2.21891e-36	1.000000
rad41	2.72671e-39	1.000000	2.72671e-39	1.000000

100000.000 Pa, 170.000000 K

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Rate constant | True (fraction) | Effective (fraction)

Total	3.56414e-18 (1.00)	3.56414e-18 (1.00)
Formation of rad11	3.18264e-18 (0.893)	3.18264e-18 (0.893)
Formation of rad6	3.62173e-19 (0.102)	3.62173e-19 (0.102)
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.888361	0.888361	0.888361	0.888361
rad6	0.105957	0.994319	0.105957	0.994319
Benzene+2-propynyl	0.00542285	0.999741	0.00542285	0.999741
rad21	0.000103764	0.999845	0.000103764	0.999845
rad20	7.92245e-05	0.999924	7.92245e-05	0.999924
rad22	5.57746e-05	0.999980	5.57746e-05	0.999980
rad18	9.13902e-06	0.999989	9.13902e-06	0.999989
rad45	7.34313e-06	0.999997	7.34313e-06	0.999997
rad13	1.22248e-06	0.999998	1.22248e-06	0.999998
rad7	9.32307e-07	0.999999	9.32307e-07	0.999999
Indene+H	8.58547e-07	1.000000	8.58547e-07	1.000000
rad36	4.67179e-07	1.000000	4.67179e-07	1.000000
C2H2+PhCH2	1.95738e-07	1.000000	1.95738e-07	1.000000
rad25	1.73859e-07	1.000000	1.73859e-07	1.000000
rad23	9.53776e-08	1.000000	9.53776e-08	1.000000
PhCHCCH2+H	2.35789e-08	1.000000	2.35789e-08	1.000000
rad33	4.70341e-09	1.000000	4.70341e-09	1.000000
rad9	1.67006e-09	1.000000	1.67006e-09	1.000000
rad24	1.15453e-09	1.000000	1.15453e-09	1.000000
Phenyl+Allene	7.10594e-10	1.000000	0.000000	1.000000
rad3	4.46970e-10	1.000000	4.46970e-10	1.000000
rad4	2.37346e-10	1.000000	2.37346e-10	1.000000
rad28	2.84541e-11	1.000000	2.84541e-11	1.000000
PhCH2CCH+H	4.18076e-12	1.000000	4.18076e-12	1.000000
rad30	7.51100e-13	1.000000	7.51100e-13	1.000000
rad2	5.36393e-13	1.000000	5.36393e-13	1.000000
rad15	1.44440e-13	1.000000	1.44440e-13	1.000000
rad8	5.64630e-14	1.000000	5.64630e-14	1.000000
rad1	3.90368e-14	1.000000	3.90368e-14	1.000000
PhCCH+CH3	1.73962e-14	1.000000	1.73962e-14	1.000000
rad38	7.71644e-16	1.000000	7.71644e-16	1.000000
PAH7+H	7.37366e-16	1.000000	7.37366e-16	1.000000
rad14	6.35956e-16	1.000000	6.35956e-16	1.000000
rad10	5.27641e-17	1.000000	5.27641e-17	1.000000
rad60syn	4.38192e-17	1.000000	4.38192e-17	1.000000
Ph+MeAc	2.72308e-17	1.000000	2.72308e-17	1.000000
rad60anti	1.38862e-17	1.000000	1.38862e-17	1.000000
rad46	8.11263e-18	1.000000	8.11263e-18	1.000000
PAH9+H	3.83619e-18	1.000000	3.83619e-18	1.000000
rad35	2.19530e-18	1.000000	2.19530e-18	1.000000
rad31	2.97522e-19	1.000000	2.97522e-19	1.000000
PhCCCH3+H	1.98309e-19	1.000000	1.98309e-19	1.000000
rad27	1.46464e-19	1.000000	1.46464e-19	1.000000
PAH3+H	1.17655e-19	1.000000	1.17655e-19	1.000000
rad26	5.89375e-20	1.000000	5.89375e-20	1.000000
rad59	3.89205e-20	1.000000	3.89205e-20	1.000000
rad39	2.07814e-20	1.000000	2.07814e-20	1.000000
rad50	6.90497e-23	1.000000	6.90497e-23	1.000000
rad19syn	1.30859e-23	1.000000	1.30859e-23	1.000000
rad54	4.07380e-24	1.000000	4.07380e-24	1.000000
rad5	2.44636e-25	1.000000	2.44636e-25	1.000000
rad70	1.28040e-25	1.000000	1.28040e-25	1.000000
rad52	6.70699e-27	1.000000	6.70699e-27	1.000000
rad12	1.70605e-27	1.000000	1.70605e-27	1.000000
rad55	5.61436e-28	1.000000	5.61436e-28	1.000000
rad37	1.14662e-28	1.000000	1.14662e-28	1.000000
PhcycC3H3_A+H	1.13191e-28	1.000000	1.13191e-28	1.000000
rad62	8.85113e-29	1.000000	8.85113e-29	1.000000
rad34	6.76410e-29	1.000000	6.76410e-29	1.000000
rad51	6.46442e-29	1.000000	6.46442e-29	1.000000
rad58	3.83404e-29	1.000000	3.83404e-29	1.000000
rad43	5.01542e-31	1.000000	5.01542e-31	1.000000
rad47	1.04456e-32	1.000000	1.04456e-32	1.000000
rad65	2.51190e-33	1.000000	2.51190e-33	1.000000
PAH1+H	1.46681e-33	1.000000	1.46681e-33	1.000000
PAH10+CH3	5.18485e-34	1.000000	5.18485e-34	1.000000
rad42	5.65897e-35	1.000000	5.65897e-35	1.000000
rad41	7.34035e-38	1.000000	7.34035e-38	1.000000

100000.000 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
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Total	6.50681e-18 (1.00)	6.50681e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71915e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39013e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.873924	0.873924	0.873924	0.873924
rad6	0.118313	0.992236	0.118313	0.992236
Benzene+2-propynyl	0.00747672	0.999713	0.00747672	0.999713
rad21	0.000109451	0.999823	0.000109451	0.999823
rad20	8.78768e-05	0.999910	8.78768e-05	0.999910
rad22	6.50932e-05	0.999976	6.50932e-05	0.999976
rad18	1.12375e-05	0.999987	1.12375e-05	0.999987
rad45	8.70910e-06	0.999996	8.70910e-06	0.999996
rad13	1.42486e-06	0.999997	1.42486e-06	0.999997
Indene+H	1.17554e-06	0.999998	1.17554e-06	0.999998
rad7	1.17059e-06	0.999999	1.17059e-06	0.999999
rad36	5.54323e-07	1.000000	5.54323e-07	1.000000
C2H2+PhCH2	2.66170e-07	1.000000	2.66170e-07	1.000000
rad25	2.03050e-07	1.000000	2.03050e-07	1.000000
rad23	1.25384e-07	1.000000	1.25384e-07	1.000000
PhCHCCH2+H	3.01836e-08	1.000000	3.01836e-08	1.000000
rad33	5.26910e-09	1.000000	5.26910e-09	1.000000
rad9	2.19040e-09	1.000000	2.19040e-09	1.000000
rad24	1.13227e-09	1.000000	1.13227e-09	1.000000
Phenyl+Allene	1.09937e-09	1.000000	0.000000	1.000000
rad3	6.17179e-10	1.000000	6.17179e-10	1.000000
rad4	3.27874e-10	1.000000	3.27874e-10	1.000000
rad28	4.10198e-11	1.000000	4.10198e-11	1.000000
PhCH2CCH+H	8.79910e-12	1.000000	8.79910e-12	1.000000
rad30	1.20559e-12	1.000000	1.20559e-12	1.000000
rad2	8.87955e-13	1.000000	8.87955e-13	1.000000
rad15	2.38814e-13	1.000000	2.38814e-13	1.000000
rad8	1.03788e-13	1.000000	1.03788e-13	1.000000
rad1	6.48074e-14	1.000000	6.48074e-14	1.000000
PhCCH+CH3	3.33814e-14	1.000000	3.33814e-14	1.000000
PAH7+H	1.83042e-15	1.000000	1.83042e-15	1.000000
rad38	1.21311e-15	1.000000	1.21311e-15	1.000000
rad14	1.14411e-15	1.000000	1.14411e-15	1.000000
rad10	1.08014e-16	1.000000	1.08014e-16	1.000000
rad60syn	9.17941e-17	1.000000	9.17941e-17	1.000000
Ph+MeAc	6.34181e-17	1.000000	6.34181e-17	1.000000
rad60anti	3.02389e-17	1.000000	3.02389e-17	1.000000
rad46	1.41145e-17	1.000000	1.41145e-17	1.000000
PAH9+H	6.98821e-18	1.000000	6.98821e-18	1.000000
rad35	4.17781e-18	1.000000	4.17781e-18	1.000000
PhCCCH3+H	4.95201e-19	1.000000	4.95201e-19	1.000000
rad31	4.30857e-19	1.000000	4.30857e-19	1.000000
PAH3+H	3.98755e-19	1.000000	3.98755e-19	1.000000
rad27	3.19149e-19	1.000000	3.19149e-19	1.000000
rad26	1.53962e-19	1.000000	1.53962e-19	1.000000
rad59	1.27343e-19	1.000000	1.27343e-19	1.000000
rad39	4.78591e-20	1.000000	4.78591e-20	1.000000
rad50	2.26537e-22	1.000000	2.26537e-22	1.000000
rad19syn	6.65991e-23	1.000000	6.65991e-23	1.000000
rad54	2.40456e-23	1.000000	2.40456e-23	1.000000
rad70	1.39039e-24	1.000000	1.39039e-24	1.000000
rad5	9.69265e-25	1.000000	9.69265e-25	1.000000
rad52	3.73479e-26	1.000000	3.73479e-26	1.000000
rad12	6.54068e-27	1.000000	6.54068e-27	1.000000
rad55	5.52238e-27	1.000000	5.52238e-27	1.000000
PhcycC3H3_A+H	1.25106e-27	1.000000	1.25106e-27	1.000000
rad34	1.09450e-27	1.000000	1.09450e-27	1.000000
rad62	7.98870e-28	1.000000	7.98870e-28	1.000000
rad51	5.52758e-28	1.000000	5.52758e-28	1.000000
rad37	4.99599e-28	1.000000	4.99599e-28	1.000000
rad58	4.79513e-28	1.000000	4.79513e-28	1.000000
rad43	4.64999e-30	1.000000	4.64999e-30	1.000000
rad47	1.45127e-31	1.000000	1.45127e-31	1.000000
rad65	2.95792e-32	1.000000	2.95792e-32	1.000000
PAH1+H	2.15472e-32	1.000000	2.15472e-32	1.000000
PAH10+CH3	5.03858e-33	1.000000	5.03858e-33	1.000000
rad42	1.03325e-33	1.000000	1.03325e-33	1.000000
rad41	1.41973e-36	1.000000	1.41973e-36	1.000000

100000.000 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.11858e-17 (1.00)	1.11858e-17 (1.00)
Formation of rad11	9.67466e-18 (0.865)	9.67466e-18 (0.865)
Formation of rad6	1.40029e-18 (0.125)	1.40029e-18 (0.125)
H-abstraction	1.10851e-19 (0.00991)	1.10851e-19 (0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.859420	0.859420	0.859420	0.859420
rad6	0.130351	0.989771	0.130351	0.989771
Benzene+2-propynyl	0.00990995	0.999681	0.00990995	0.999681
rad21	0.000115396	0.999797	0.000115396	0.999797
rad20	9.70601e-05	0.999894	9.70601e-05	0.999894
rad22	7.58637e-05	0.999970	7.58637e-05	0.999970
rad18	1.37436e-05	0.999983	1.37436e-05	0.999983
rad45	1.03224e-05	0.999994	1.03224e-05	0.999994
rad13	1.63243e-06	0.999995	1.63243e-06	0.999995
Indene+H	1.60450e-06	0.999997	1.60450e-06	0.999997
rad7	1.44987e-06	0.999998	1.44987e-06	0.999998
rad36	6.57579e-07	0.999999	6.57579e-07	0.999999
C2H2+PhCH2	3.61800e-07	0.999999	3.61800e-07	0.999999
rad25	2.37609e-07	1.000000	2.37609e-07	1.000000
rad23	1.64805e-07	1.000000	1.64805e-07	1.000000
PhCHCCH2+H	3.88351e-08	1.000000	3.88351e-08	1.000000
rad33	5.80965e-09	1.000000	5.80965e-09	1.000000
rad9	2.88516e-09	1.000000	2.88516e-09	1.000000
Phenyl+Allene	1.69176e-09	1.000000	0.000000	1.000000
rad24	1.11564e-09	1.000000	1.11564e-09	1.000000
rad3	8.39375e-10	1.000000	8.39375e-10	1.000000
rad4	4.46237e-10	1.000000	4.46237e-10	1.000000
rad28	5.83300e-11	1.000000	5.83300e-11	1.000000
PhCH2CCH+H	1.77928e-11	1.000000	1.77928e-11	1.000000
rad30	1.93642e-12	1.000000	1.93642e-12	1.000000
rad2	1.45335e-12	1.000000	1.45335e-12	1.000000
rad15	3.95205e-13	1.000000	3.95205e-13	1.000000
rad8	1.89229e-13	1.000000	1.89229e-13	1.000000
rad1	1.06468e-13	1.000000	1.06468e-13	1.000000
PhCCH+CH3	6.35197e-14	1.000000	6.35197e-14	1.000000
PAH7+H	4.37144e-15	1.000000	4.37144e-15	1.000000
rad14	2.03749e-15	1.000000	2.03749e-15	1.000000
rad38	1.92440e-15	1.000000	1.92440e-15	1.000000
rad10	2.19838e-16	1.000000	2.19838e-16	1.000000
rad60syn	1.90377e-16	1.000000	1.90377e-16	1.000000
Ph+MeAc	1.45256e-16	1.000000	1.45256e-16	1.000000
rad60anti	6.49092e-17	1.000000	6.49092e-17	1.000000
rad46	2.48026e-17	1.000000	2.48026e-17	1.000000
PAH9+H	1.29014e-17	1.000000	1.29014e-17	1.000000
rad35	8.15905e-18	1.000000	8.15905e-18	1.000000
PAH3+H	1.26614e-18	1.000000	1.26614e-18	1.000000
PhCCCH3+H	1.23069e-18	1.000000	1.23069e-18	1.000000
rad27	6.88187e-19	1.000000	6.88187e-19	1.000000
rad31	6.18306e-19	1.000000	6.18306e-19	1.000000
rad59	3.91218e-19	1.000000	3.91218e-19	1.000000
rad26	3.82349e-19	1.000000	3.82349e-19	1.000000
rad39	1.08966e-19	1.000000	1.08966e-19	1.000000
rad50	7.07893e-22	1.000000	7.07893e-22	1.000000
rad19syn	2.99032e-22	1.000000	2.99032e-22	1.000000
rad54	1.21101e-22	1.000000	1.21101e-22	1.000000
rad70	1.20384e-23	1.000000	1.20384e-23	1.000000
rad5	3.67348e-24	1.000000	3.67348e-24	1.000000
rad52	1.84949e-25	1.000000	1.84949e-25	1.000000
rad55	4.35385e-26	1.000000	4.35385e-26	1.000000
rad12	2.39474e-26	1.000000	2.39474e-26	1.000000
rad34	1.31981e-26	1.000000	1.31981e-26	1.000000
PhcycC3H3_A+H	1.10667e-26	1.000000	1.10667e-26	1.000000
rad62	6.09399e-27	1.000000	6.09399e-27	1.000000
rad58	4.74869e-27	1.000000	4.74869e-27	1.000000
rad51	4.00453e-27	1.000000	4.00453e-27	1.000000
rad37	2.06330e-27	1.000000	2.06330e-27	1.000000
rad43	3.70456e-29	1.000000	3.70456e-29	1.000000
rad47	1.56107e-30	1.000000	1.56107e-30	1.000000
rad65	2.85668e-31	1.000000	2.85668e-31	1.000000
PAH1+H	2.42450e-31	1.000000	2.42450e-31	1.000000
PAH10+CH3	4.16274e-32	1.000000	4.16274e-32	1.000000
rad42	1.40611e-32	1.000000	1.40611e-32	1.000000
rad41	2.05057e-35	1.000000	2.05057e-35	1.000000

100000.000 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.82690e-17 (1.00)	1.82690e-17 (1.00)
Formation of rad11	1.55456e-17 (0.851)	1.55456e-17 (0.851)
Formation of rad6	2.49126e-18 (0.136)	2.49126e-18 (0.136)
H-abstraction	2.32112e-19 (0.0127)	2.32112e-19 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.844941	0.844941	0.844941	0.844941
rad6	0.142001	0.986941	0.142001	0.986941
Benzene+2-propynyl	0.0127053	0.999647	0.0127053	0.999647
rad21	0.000121638	0.999768	0.000121638	0.999768
rad20	0.000106800	0.999875	0.000106800	0.999875
rad22	8.83502e-05	0.999963	8.83502e-05	0.999963
rad18	1.67285e-05	0.999980	1.67285e-05	0.999980
rad45	1.22340e-05	0.999992	1.22340e-05	0.999992
Indene+H	2.18450e-06	0.999994	2.18450e-06	0.999994
rad13	1.84273e-06	0.999996	1.84273e-06	0.999996
rad7	1.77595e-06	0.999998	1.77595e-06	0.999998
rad36	7.80389e-07	0.999999	7.80389e-07	0.999999
C2H2+PhCH2	4.91748e-07	0.999999	4.91748e-07	0.999999
rad25	2.78618e-07	1.000000	2.78618e-07	1.000000
rad23	2.16799e-07	1.000000	2.16799e-07	1.000000
PhCHCCH2+H	5.02082e-08	1.000000	5.02082e-08	1.000000
rad33	6.32005e-09	1.000000	6.32005e-09	1.000000
rad9	3.81498e-09	1.000000	3.81498e-09	1.000000
Phenyl+Allene	2.58949e-09	1.000000	0.000000	1.000000
rad3	1.12740e-09	1.000000	1.12740e-09	1.000000
rad24	1.10424e-09	1.000000	1.10424e-09	1.000000
rad4	5.99958e-10	1.000000	5.99958e-10	1.000000
rad28	8.20233e-11	1.000000	8.20233e-11	1.000000
PhCH2CCH+H	3.47565e-11	1.000000	3.47565e-11	1.000000
rad30	3.11080e-12	1.000000	3.11080e-12	1.000000
rad2	2.35805e-12	1.000000	2.35805e-12	1.000000
rad15	6.54051e-13	1.000000	6.54051e-13	1.000000
rad8	3.41882e-13	1.000000	3.41882e-13	1.000000
rad1	1.73540e-13	1.000000	1.73540e-13	1.000000
PhCCH+CH3	1.20023e-13	1.000000	1.20023e-13	1.000000
PAH7+H	1.00802e-14	1.000000	1.00802e-14	1.000000
rad14	3.59758e-15	1.000000	3.59758e-15	1.000000
rad38	3.08036e-15	1.000000	3.08036e-15	1.000000
rad10	4.45665e-16	1.000000	4.45665e-16	1.000000
rad60syn	3.90308e-16	1.000000	3.90308e-16	1.000000
Ph+MeAc	3.27482e-16	1.000000	3.27482e-16	1.000000
rad60anti	1.37215e-16	1.000000	1.37215e-16	1.000000
rad46	4.39749e-17	1.000000	4.39749e-17	1.000000
PAH9+H	2.41268e-17	1.000000	2.41268e-17	1.000000
rad35	1.62908e-17	1.000000	1.62908e-17	1.000000
PAH3+H	3.79196e-18	1.000000	3.79196e-18	1.000000
PhCCCH3+H	3.04374e-18	1.000000	3.04374e-18	1.000000
rad27	1.46836e-18	1.000000	1.46836e-18	1.000000
rad59	1.13606e-18	1.000000	1.13606e-18	1.000000
rad26	9.09150e-19	1.000000	9.09150e-19	1.000000
rad31	8.81857e-19	1.000000	8.81857e-19	1.000000
rad39	2.45304e-19	1.000000	2.45304e-19	1.000000
rad50	2.11960e-21	1.000000	2.11960e-21	1.000000
rad19syn	1.20677e-21	1.000000	1.20677e-21	1.000000
rad54	5.32890e-22	1.000000	5.32890e-22	1.000000
rad70	8.56977e-23	1.000000	8.56977e-23	1.000000
rad5	1.33634e-23	1.000000	1.33634e-23	1.000000
rad52	8.28106e-25	1.000000	8.28106e-25	1.000000
rad55	2.83758e-25	1.000000	2.83758e-25	1.000000
rad34	1.24484e-25	1.000000	1.24484e-25	1.000000
rad12	8.40302e-26	1.000000	8.40302e-26	1.000000
PhcycC3H3_A+H	8.05834e-26	1.000000	8.05834e-26	1.000000
rad62	4.00062e-26	1.000000	4.00062e-26	1.000000
rad58	3.83350e-26	1.000000	3.83350e-26	1.000000
rad51	2.51017e-26	1.000000	2.51017e-26	1.000000
rad37	8.10258e-27	1.000000	8.10258e-27	1.000000
rad43	2.56802e-28	1.000000	2.56802e-28	1.000000
rad47	1.34395e-29	1.000000	1.34395e-29	1.000000
rad65	2.31267e-30	1.000000	2.31267e-30	1.000000
PAH1+H	2.16094e-30	1.000000	2.16094e-30	1.000000
PAH10+CH3	2.96678e-31	1.000000	2.96678e-31	1.000000
rad42	1.48103e-31	1.000000	1.48103e-31	1.000000
rad41	2.29443e-34	1.000000	2.29443e-34	1.000000

100000.000 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	2.85520e-17 (1.00)	2.85520e-17 (1.00)
Formation of rad11	2.39009e-17 (0.837)	2.39009e-17 (0.837)
Formation of rad6	4.19900e-18 (0.147)	4.19900e-18 (0.147)
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.830560	0.830560	0.830560	0.830560
rad6	0.153213	0.983773	0.153213	0.983773
Benzene+2-propynyl	0.0158346	0.999607	0.0158346	0.999607
rad21	0.000128207	0.999736	0.000128207	0.999736
rad20	0.000117117	0.999853	0.000117117	0.999853
rad22	0.000102863	0.999956	0.000102863	0.999956
rad18	2.02724e-05	0.999976	2.02724e-05	0.999976
rad45	1.45051e-05	0.999990	1.45051e-05	0.999990
Indene+H	2.96771e-06	0.999993	2.96771e-06	0.999993
rad7	2.15576e-06	0.999995	2.15576e-06	0.999995
rad13	2.05349e-06	0.999997	2.05349e-06	0.999997
rad36	9.26932e-07	0.999998	9.26932e-07	0.999998
C2H2+PhCH2	6.68345e-07	0.999999	6.68345e-07	0.999999
rad25	3.27348e-07	0.999999	3.27348e-07	0.999999
rad23	2.85623e-07	1.000000	2.85623e-07	1.000000
PhCHCCH2+H	6.52002e-08	1.000000	6.52002e-08	1.000000
rad33	6.79716e-09	1.000000	6.79716e-09	1.000000
rad9	5.06131e-09	1.000000	5.06131e-09	1.000000
Phenyl+Allene	3.94214e-09	1.000000	0.000000	1.000000
rad3	1.49866e-09	1.000000	1.49866e-09	1.000000
rad24	1.09773e-09	1.000000	1.09773e-09	1.000000
rad4	7.98549e-10	1.000000	7.98549e-10	1.000000
rad28	1.14281e-10	1.000000	1.14281e-10	1.000000
PhCH2CCH+H	6.58724e-11	1.000000	6.58724e-11	1.000000
rad30	4.99368e-12	1.000000	4.99368e-12	1.000000
rad2	3.79976e-12	1.000000	3.79976e-12	1.000000
rad15	1.08120e-12	1.000000	1.08120e-12	1.000000
rad8	6.11569e-13	1.000000	6.11569e-13	1.000000
rad1	2.81179e-13	1.000000	2.81179e-13	1.000000
PhCCH+CH3	2.25372e-13	1.000000	2.25372e-13	1.000000
PAH7+H	2.25067e-14	1.000000	2.25067e-14	1.000000
rad14	6.30364e-15	1.000000	6.30364e-15	1.000000
rad38	4.97313e-15	1.000000	4.97313e-15	1.000000
rad10	9.00804e-16	1.000000	9.00804e-16	1.000000
rad60syn	7.89888e-16	1.000000	7.89888e-16	1.000000
Ph+MeAc	7.27104e-16	1.000000	7.27104e-16	1.000000
rad60anti	2.85395e-16	1.000000	2.85395e-16	1.000000
rad46	7.85604e-17	1.000000	7.85604e-17	1.000000
PAH9+H	4.56531e-17	1.000000	4.56531e-17	1.000000
rad35	3.30623e-17	1.000000	3.30623e-17	1.000000
PAH3+H	1.07700e-17	1.000000	1.07700e-17	1.000000
PhCCCH3+H	7.48639e-18	1.000000	7.48639e-18	1.000000
rad59	3.13500e-18	1.000000	3.13500e-18	1.000000
rad27	3.09766e-18	1.000000	3.09766e-18	1.000000
rad26	2.08161e-18	1.000000	2.08161e-18	1.000000
rad31	1.25304e-18	1.000000	1.25304e-18	1.000000
rad39	5.45888e-19	1.000000	5.45888e-19	1.000000
rad50	6.11064e-21	1.000000	6.11064e-21	1.000000
rad19syn	4.44202e-21	1.000000	4.44202e-21	1.000000
rad54	2.08827e-21	1.000000	2.08827e-21	1.000000
rad70	5.14101e-22	1.000000	5.14101e-22	1.000000
rad5	4.67603e-23	1.000000	4.67603e-23	1.000000
rad52	3.39785e-24	1.000000	3.39785e-24	1.000000
rad55	1.56694e-24	1.000000	1.56694e-24	1.000000
rad34	9.48096e-25	1.000000	9.48096e-25	1.000000
PhcycC3H3_A+H	4.94076e-25	1.000000	4.94076e-25	1.000000
rad12	2.83238e-25	1.000000	2.83238e-25	1.000000
rad58	2.58203e-25	1.000000	2.58203e-25	1.000000
rad62	2.29232e-25	1.000000	2.29232e-25	1.000000
rad51	1.38458e-25	1.000000	1.38458e-25	1.000000
rad37	3.03126e-26	1.000000	3.03126e-26	1.000000
rad43	1.56387e-27	1.000000	1.56387e-27	1.000000
rad47	9.52427e-29	1.000000	9.52427e-29	1.000000
rad65	1.59703e-29	1.000000	1.59703e-29	1.000000
PAH1+H	1.56915e-29	1.000000	1.56915e-29	1.000000
PAH10+CH3	1.84266e-30	1.000000	1.84266e-30	1.000000
rad42	1.24712e-30	1.000000	1.24712e-30	1.000000
rad41	2.05345e-33	1.000000	2.05345e-33	1.000000

100000.000 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	4.29529e-17	(1.00)	4.29529e-17	(1.00)
Formation of rad11	3.53712e-17	(0.823)	3.53712e-17	(0.823)
Formation of rad6	6.75433e-18	(0.157)	6.75433e-18	(0.157)
H-abstraction	8.27372e-19	(0.0193)	8.27372e-19	(0.0193)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.816340	0.816340	0.816340	0.816340
rad6	0.163962	0.980301	0.163962	0.980301
Benzene+2-propynyl	0.0192623	0.999564	0.0192623	0.999564
rad21	0.000135128	0.999699	0.000135128	0.999699
rad20	0.000128023	0.999827	0.000128023	0.999827
rad22	0.000119762	0.999946	0.000119762	0.999946
rad18	2.44642e-05	0.999971	2.44642e-05	0.999971
rad45	1.72089e-05	0.999988	1.72089e-05	0.999988
Indene+H	4.02324e-06	0.999992	4.02324e-06	0.999992
rad7	2.59755e-06	0.999995	2.59755e-06	0.999995
rad13	2.26271e-06	0.999997	2.26271e-06	0.999997
rad36	1.10225e-06	0.999998	1.10225e-06	0.999998
C2H2+PhCH2	9.08161e-07	0.999999	9.08161e-07	0.999999
rad25	3.85275e-07	0.999999	3.85275e-07	0.999999
rad23	3.77025e-07	1.000000	3.77025e-07	1.000000
PhCHCCH2+H	8.50012e-08	1.000000	8.50012e-08	1.000000
rad33	7.23943e-09	1.000000	7.23943e-09	1.000000
rad9	6.73323e-09	1.000000	6.73323e-09	1.000000
Phenyl+Allene	5.96816e-09	1.000000	0.000000	1.000000
rad3	1.97494e-09	1.000000	1.97494e-09	1.000000
rad24	1.09582e-09	1.000000	1.09582e-09	1.000000
rad4	1.05400e-09	1.000000	1.05400e-09	1.000000
rad28	1.58002e-10	1.000000	1.58002e-10	1.000000
PhCH2CCH+H	1.21552e-10	1.000000	1.21552e-10	1.000000
rad30	8.00101e-12	1.000000	8.00101e-12	1.000000
rad2	6.08915e-12	1.000000	6.08915e-12	1.000000
rad15	1.78281e-12	1.000000	1.78281e-12	1.000000
rad8	1.08234e-12	1.000000	1.08234e-12	1.000000
rad1	4.53486e-13	1.000000	4.53486e-13	1.000000
PhCCH+CH3	4.20661e-13	1.000000	4.20661e-13	1.000000
PAH7+H	4.87647e-14	1.000000	4.87647e-14	1.000000
rad14	1.09640e-14	1.000000	1.09640e-14	1.000000
rad38	8.09185e-15	1.000000	8.09185e-15	1.000000
rad10	1.81603e-15	1.000000	1.81603e-15	1.000000
Ph+MeAc	1.59036e-15	1.000000	1.59036e-15	1.000000
rad60syn	1.57584e-15	1.000000	1.57584e-15	1.000000
rad60anti	5.83532e-16	1.000000	5.83532e-16	1.000000
rad46	1.41204e-16	1.000000	1.41204e-16	1.000000
PAH9+H	8.72732e-17	1.000000	8.72732e-17	1.000000
rad35	6.77496e-17	1.000000	6.77496e-17	1.000000
PAH3+H	2.91362e-17	1.000000	2.91362e-17	1.000000
PhCCCH3+H	1.82928e-17	1.000000	1.82928e-17	1.000000
rad59	8.25592e-18	1.000000	8.25592e-18	1.000000
rad27	6.45341e-18	1.000000	6.45341e-18	1.000000
rad26	4.61007e-18	1.000000	4.61007e-18	1.000000
rad31	1.77735e-18	1.000000	1.77735e-18	1.000000
rad39	1.20033e-18	1.000000	1.20033e-18	1.000000
rad50	1.70252e-20	1.000000	1.70252e-20	1.000000
rad19syn	1.50837e-20	1.000000	1.50837e-20	1.000000
rad54	7.39911e-21	1.000000	7.39911e-21	1.000000
rad70	2.65168e-21	1.000000	2.65168e-21	1.000000
rad5	1.57483e-22	1.000000	1.57483e-22	1.000000
rad52	1.29110e-23	1.000000	1.29110e-23	1.000000
rad55	7.47786e-24	1.000000	7.47786e-24	1.000000
rad34	5.98378e-24	1.000000	5.98378e-24	1.000000
PhcycC3H3_A+H	2.59859e-24	1.000000	2.59859e-24	1.000000
rad58	1.47945e-24	1.000000	1.47945e-24	1.000000
rad62	1.15943e-24	1.000000	1.15943e-24	1.000000
rad12	9.18033e-25	1.000000	9.18033e-25	1.000000
rad51	6.81074e-25	1.000000	6.81074e-25	1.000000
rad37	1.08081e-25	1.000000	1.08081e-25	1.000000
rad43	8.43356e-27	1.000000	8.43356e-27	1.000000
rad47	5.69165e-28	1.000000	5.69165e-28	1.000000
rad65	9.54591e-29	1.000000	9.54591e-29	1.000000
PAH1+H	9.50727e-29	1.000000	9.50727e-29	1.000000
PAH10+CH3	1.00549e-29	1.000000	1.00549e-29	1.000000
rad42	8.63197e-30	1.000000	8.63197e-30	1.000000
rad41	1.51106e-32	1.000000	1.51106e-32	1.000000

100000.000 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	6.25016e-17	(1.00)	6.25016e-17	(1.00)
Formation of rad11	5.06355e-17	(0.810)	5.06355e-17	(0.810)
Formation of rad6	1.04318e-17	(0.167)	1.04318e-17	(0.167)
H-abstraction	1.43428e-18	(0.0229)	1.43428e-18	(0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.802327	0.802327	0.802327	0.802327
rad6	0.174239	0.976566	0.174239	0.976566
Benzene+2-propynyl	0.0229478	0.999513	0.0229478	0.999513
rad21	0.000142417	0.999656	0.000142417	0.999656
rad20	0.000139523	0.999795	0.000139523	0.999795
rad22	0.000139463	0.999935	0.000139463	0.999935
rad18	2.94005e-05	0.999964	2.94005e-05	0.999964
rad45	2.04321e-05	0.999985	2.04321e-05	0.999985
Indene+H	5.44186e-06	0.999990	5.44186e-06	0.999990
rad7	3.11110e-06	0.999993	3.11110e-06	0.999993
rad13	2.46860e-06	0.999996	2.46860e-06	0.999996
rad36	1.31243e-06	0.999997	1.31243e-06	0.999997
C2H2+PhCH2	1.23332e-06	0.999998	1.23332e-06	0.999998
rad23	4.98741e-07	0.999999	4.98741e-07	0.999999
rad25	4.54087e-07	0.999999	4.54087e-07	0.999999
PhCHCCH2+H	1.11186e-07	0.999999	1.11186e-07	0.999999
Phenyl+Allene	8.98401e-09	0.999999	0.00000	0.999999
rad9	8.97633e-09	0.999999	8.97633e-09	0.999999
rad33	7.64664e-09	0.999999	7.64664e-09	0.999999
rad3	2.58354e-09	0.999999	2.58354e-09	0.999999
rad4	1.38140e-09	0.999999	1.38140e-09	0.999999
rad24	1.09824e-09	0.999999	1.09824e-09	0.999999
PhCH2CCH+H	2.18991e-10	0.999999	2.18991e-10	0.999999
rad28	2.17016e-10	0.999999	2.17016e-10	0.999999
rad30	1.27785e-11	0.999999	1.27785e-11	0.999999
rad2	9.71270e-12	0.999999	9.71270e-12	0.999999
rad15	2.92797e-12	0.999999	2.92797e-12	0.999999
rad8	1.89392e-12	0.999999	1.89392e-12	0.999999
PhCCH+CH3	7.80474e-13	0.999999	7.80474e-13	0.999999
rad1	7.28690e-13	0.999999	7.28690e-13	0.999999
PAH7+H	1.02705e-13	0.999999	1.02705e-13	0.999999
rad14	1.89273e-14	0.999999	1.89273e-14	0.999999
rad38	1.32567e-14	0.999999	1.32567e-14	0.999999
rad10	3.65120e-15	0.999999	3.65120e-15	0.999999
Ph+MeAc	3.42714e-15	0.999999	3.42714e-15	0.999999
rad60syn	3.09557e-15	0.999999	3.09557e-15	0.999999
rad60anti	1.17196e-15	0.999999	1.17196e-15	0.999999
rad46	2.54955e-16	0.999999	2.54955e-16	0.999999
PAH9+H	1.68245e-16	0.999999	1.68245e-16	0.999999
rad35	1.39247e-16	0.999999	1.39247e-16	0.999999
PAH3+H	7.53365e-17	0.999999	7.53365e-17	0.999999
PhCCCH3+H	4.43376e-17	0.999999	4.43376e-17	0.999999
rad59	2.08178e-17	0.999999	2.08178e-17	0.999999
rad27	1.32591e-17	0.999999	1.32591e-17	0.999999
rad26	9.91092e-18	0.999999	9.91092e-18	0.999999
rad39	2.60626e-18	0.999999	2.60626e-18	0.999999
rad31	2.52100e-18	0.999999	2.52100e-18	0.999999
rad19syn	4.76508e-20	0.999999	4.76508e-20	0.999999
rad50	4.59700e-20	0.999999	4.59700e-20	0.999999
rad54	2.39874e-20	0.999999	2.39874e-20	0.999999
rad70	1.19551e-20	0.999999	1.19551e-20	0.999999
rad5	5.10076e-22	0.999999	5.10076e-22	0.999999
rad52	4.57896e-23	0.999999	4.57896e-23	0.999999
rad34	3.19890e-23	0.999999	3.19890e-23	0.999999
rad55	3.13410e-23	0.999999	3.13410e-23	0.999999
PhcycC3H3_A+H	1.19083e-23	0.999999	1.19083e-23	0.999999
rad58	7.33170e-24	0.999999	7.33170e-24	0.999999
rad62	5.22591e-24	0.999999	5.22591e-24	0.999999
rad51	3.01959e-24	0.999999	3.01959e-24	0.999999
rad12	2.86053e-24	0.999999	2.86053e-24	0.999999
rad37	3.66940e-25	0.999999	3.66940e-25	0.999999
rad43	4.05724e-26	0.999999	4.05724e-26	0.999999
rad47	2.92840e-27	0.999999	2.92840e-27	0.999999
rad65	5.00238e-28	0.999999	5.00238e-28	0.999999
PAH1+H	4.90548e-28	0.999999	4.90548e-28	0.999999
rad42	5.02904e-29	0.999999	5.02904e-29	0.999999
PAH10+CH3	4.85650e-29	0.999999	4.85650e-29	0.999999
rad41	9.36191e-32	0.999999	9.36191e-32	0.999999

100000.000 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	8.83273e-17 (1.00)	8.83273e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04077e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55481e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.788560	0.788560	0.788560	0.788560
rad6	0.184050	0.972611	0.184050	0.972611
Benzene+2-propynyl	0.0268483	0.999459	0.0268483	0.999459
rad22	0.000162449	0.999621	0.000162449	0.999621
rad20	0.000151608	0.999773	0.000151608	0.999773
rad21	0.000150080	0.999923	0.000150080	0.999923
rad18	3.51834e-05	0.999958	3.51834e-05	0.999958
rad45	2.42771e-05	0.999983	2.42771e-05	0.999983
Indene+H	7.34171e-06	0.999990	7.34171e-06	0.999990
rad7	3.70790e-06	0.999994	3.70790e-06	0.999994
rad13	2.66967e-06	0.999996	2.66967e-06	0.999996
C2H2+PhCH2	1.67319e-06	0.999998	1.67319e-06	0.999998
rad36	1.56470e-06	0.999999	1.56470e-06	0.999999
rad23	6.61173e-07	1.00000	6.61173e-07	1.00000
rad25	5.35694e-07	1.00000	5.35694e-07	1.00000
PhCHCCH2+H	1.45831e-07	1.00000	1.45831e-07	1.00000
Phenyl+Allene	1.34446e-08	1.00000	0.00000	1.00000
rad9	1.19841e-08	1.00000	1.19841e-08	1.00000
rad33	8.01955e-09	1.00000	8.01955e-09	1.00000
rad3	3.35844e-09	1.00000	3.35844e-09	1.00000
rad4	1.79968e-09	1.00000	1.79968e-09	1.00000
rad24	1.10474e-09	1.00000	1.10474e-09	1.00000
PhCH2CCH+H	3.86086e-10	1.00000	3.86086e-10	1.00000
rad28	2.96382e-10	1.00000	2.96382e-10	1.00000
rad30	2.03167e-11	1.00000	2.03167e-11	1.00000
rad2	1.54295e-11	1.00000	1.54295e-11	1.00000
rad15	4.78255e-12	1.00000	4.78255e-12	1.00000
rad8	3.27491e-12	1.00000	3.27491e-12	1.00000
PhCCH+CH3	1.43902e-12	1.00000	1.43902e-12	1.00000
rad1	1.16729e-12	1.00000	1.16729e-12	1.00000
PAH7+H	2.10534e-13	1.00000	2.10534e-13	1.00000
rad14	3.24177e-14	1.00000	3.24177e-14	1.00000
rad38	2.18437e-14	1.00000	2.18437e-14	1.00000
rad10	7.31678e-15	1.00000	7.31678e-15	1.00000
Ph+MeAc	7.27495e-15	1.00000	7.27495e-15	1.00000
rad60syn	5.98156e-15	1.00000	5.98156e-15	1.00000
rad60anti	2.31041e-15	1.00000	2.31041e-15	1.00000
rad46	4.61746e-16	1.00000	4.61746e-16	1.00000
PAH9+H	3.26423e-16	1.00000	3.26423e-16	1.00000
rad35	2.85369e-16	1.00000	2.85369e-16	1.00000
PAH3+H	1.86674e-16	1.00000	1.86674e-16	1.00000
PhCCCH3+H	1.06375e-16	1.00000	1.06375e-16	1.00000
rad59	5.03918e-17	1.00000	5.03918e-17	1.00000
rad27	2.68290e-17	1.00000	2.68290e-17	1.00000
rad26	2.07425e-17	1.00000	2.07425e-17	1.00000
rad39	5.58240e-18	1.00000	5.58240e-18	1.00000
rad31	3.58092e-18	1.00000	3.58092e-18	1.00000
rad19syn	1.40889e-19	1.00000	1.40889e-19	1.00000
rad50	1.20509e-19	1.00000	1.20509e-19	1.00000
rad54	7.18131e-20	1.00000	7.18131e-20	1.00000
rad70	4.77681e-20	1.00000	4.77681e-20	1.00000
rad5	1.58579e-21	1.00000	1.58579e-21	1.00000
rad52	1.52437e-22	1.00000	1.52437e-22	1.00000
rad34	1.47582e-22	1.00000	1.47582e-22	1.00000
rad55	1.16911e-22	1.00000	1.16911e-22	1.00000
PhcycC3H3_A+H	4.81884e-23	1.00000	4.81884e-23	1.00000
rad58	3.18783e-23	1.00000	3.18783e-23	1.00000
rad62	2.11697e-23	1.00000	2.11697e-23	1.00000
rad51	1.21719e-23	1.00000	1.21719e-23	1.00000
rad12	8.55692e-24	1.00000	8.55692e-24	1.00000
rad37	1.18394e-24	1.00000	1.18394e-24	1.00000
rad43	1.75394e-25	1.00000	1.75394e-25	1.00000
rad47	1.32066e-26	1.00000	1.32066e-26	1.00000
rad65	2.32493e-27	1.00000	2.32493e-27	1.00000
PAH1+H	2.19375e-27	1.00000	2.19375e-27	1.00000
rad42	2.51691e-28	1.00000	2.51691e-28	1.00000
PAH10+CH3	2.09183e-28	1.00000	2.09183e-28	1.00000
rad41	4.98376e-31	1.00000	4.98376e-31	1.00000

100000.000 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.21641e-16 (1.00)	1.21641e-16 (1.00)
Formation of rad11	9.54219e-17 (0.784)	9.54219e-17 (0.784)
Formation of rad6	2.24583e-17 (0.185)	2.24583e-17 (0.185)
H-abstraction	3.76121e-18 (0.0309)	3.76121e-18 (0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.775064	0.775064	0.775064	0.775064
rad6	0.193410	0.968474	0.193410	0.968474
Benzene+2-propynyl	0.0309205	0.999394	0.0309205	0.999394
rad22	0.000189262	0.999584	0.000189262	0.999584
rad20	0.000164259	0.999748	0.000164259	0.999748
rad21	0.000158114	0.999906	0.000158114	0.999906
rad18	4.19189e-05	0.999948	4.19189e-05	0.999948
rad45	2.88639e-05	0.999977	2.88639e-05	0.999977
Indene+H	9.87511e-06	0.999987	9.87511e-06	0.999987
rad7	4.40143e-06	0.999991	4.40143e-06	0.999991
rad13	2.86470e-06	0.999994	2.86470e-06	0.999994
C2H2+PhCH2	2.26638e-06	0.999996	2.26638e-06	0.999996
rad36	1.86774e-06	0.999998	1.86774e-06	0.999998
rad23	8.78274e-07	0.999999	8.78274e-07	0.999999
rad25	6.32217e-07	1.000000	6.32217e-07	1.000000
PhCHCCH2+H	1.91663e-07	1.000000	1.91663e-07	1.000000
Phenyl+Allene	1.99985e-08	1.000000	0.000000	1.000000
rad9	1.60127e-08	1.000000	1.60127e-08	1.000000
rad33	8.35979e-09	1.000000	8.35979e-09	1.000000
rad3	4.34194e-09	1.000000	4.34194e-09	1.000000
rad4	2.33259e-09	1.000000	2.33259e-09	1.000000
rad24	1.11511e-09	1.000000	1.11511e-09	1.000000
PhCH2CCH+H	6.67303e-10	1.000000	6.67303e-10	1.000000
rad28	4.02745e-10	1.000000	4.02745e-10	1.000000
rad30	3.21142e-11	1.000000	3.21142e-11	1.000000
rad2	2.44185e-11	1.000000	2.44185e-11	1.000000
rad15	7.75861e-12	1.000000	7.75861e-12	1.000000
rad8	5.59349e-12	1.000000	5.59349e-12	1.000000
PhCCH+CH3	2.63539e-12	1.000000	2.63539e-12	1.000000
rad1	1.86472e-12	1.000000	1.86472e-12	1.000000
PAH7+H	4.20453e-13	1.000000	4.20453e-13	1.000000
rad14	5.50531e-14	1.000000	5.50531e-14	1.000000
rad38	3.61585e-14	1.000000	3.61585e-14	1.000000
Ph+MeAc	1.52042e-14	1.000000	1.52042e-14	1.000000
rad10	1.45993e-14	1.000000	1.45993e-14	1.000000
rad60syn	1.13592e-14	1.000000	1.13592e-14	1.000000
rad60anti	4.46810e-15	1.000000	4.46810e-15	1.000000
rad46	8.37583e-16	1.000000	8.37583e-16	1.000000
PAH9+H	6.35983e-16	1.000000	6.35983e-16	1.000000
rad35	5.80284e-16	1.000000	5.80284e-16	1.000000
PAH3+H	4.44142e-16	1.000000	4.44142e-16	1.000000
PhCCCH3+H	2.51940e-16	1.000000	2.51940e-16	1.000000
rad59	1.17322e-16	1.000000	1.17322e-16	1.000000
rad27	5.33913e-17	1.000000	5.33913e-17	1.000000
rad26	4.23550e-17	1.000000	4.23550e-17	1.000000
rad39	1.17786e-17	1.000000	1.17786e-17	1.000000
rad31	5.10024e-18	1.000000	5.10024e-18	1.000000
rad19syn	3.91533e-19	1.000000	3.91533e-19	1.000000
rad50	3.07000e-19	1.000000	3.07000e-19	1.000000
rad54	1.99959e-19	1.000000	1.99959e-19	1.000000
rad70	1.71139e-19	1.000000	1.71139e-19	1.000000
rad5	4.72080e-21	1.000000	4.72080e-21	1.000000
rad34	5.97078e-22	1.000000	5.97078e-22	1.000000
rad52	4.78293e-22	1.000000	4.78293e-22	1.000000
rad55	3.92543e-22	1.000000	3.92543e-22	1.000000
PhcycC3H3_A+H	1.74216e-22	1.000000	1.74216e-22	1.000000
rad58	1.23144e-22	1.000000	1.23144e-22	1.000000
rad62	7.76810e-23	1.000000	7.76810e-23	1.000000
rad51	4.49419e-23	1.000000	4.49419e-23	1.000000
rad12	2.45228e-23	1.000000	2.45228e-23	1.000000
rad37	3.62260e-24	1.000000	3.62260e-24	1.000000
rad43	6.86323e-25	1.000000	6.86323e-25	1.000000
rad47	5.30208e-26	1.000000	5.30208e-26	1.000000
rad65	9.68526e-27	1.000000	9.68526e-27	1.000000
PAH1+H	8.63370e-27	1.000000	8.63370e-27	1.000000
rad42	1.10112e-27	1.000000	1.10112e-27	1.000000
PAH10+CH3	8.09657e-28	1.000000	8.09657e-28	1.000000
rad41	2.31971e-30	1.000000	2.31971e-30	1.000000

100000.000 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.63720e-16	(1.00)	1.63720e-16	(1.00)
Formation of rad11	1.26419e-16	(0.772)	1.26419e-16	(0.772)
Formation of rad6	3.15515e-17	(0.193)	3.15515e-17	(0.193)
H-abstraction	5.75028e-18	(0.0351)	5.75028e-18	(0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.761856	0.761856	0.761856	0.761856
rad6	0.202344	0.964200	0.202344	0.964200
Benzene+2-propynyl	0.0351226	0.999323	0.0351226	0.999323
rad22	0.000220521	0.999543	0.000220521	0.999543
rad20	0.000177440	0.999721	0.000177440	0.999721
rad21	0.000166503	0.999887	0.000166503	0.999887
rad18	4.97130e-05	0.999937	4.97130e-05	0.999937
rad45	3.43320e-05	0.999971	3.43320e-05	0.999971
Indene+H	1.32362e-05	0.999984	1.32362e-05	0.999984
rad7	5.20741e-06	0.999990	5.20741e-06	0.999990
C2H2+PhCH2	3.06334e-06	0.999993	3.06334e-06	0.999993
rad13	3.05272e-06	0.999996	3.05272e-06	0.999996
rad36	2.23177e-06	0.999998	2.23177e-06	0.999998
rad23	1.16870e-06	0.999999	1.16870e-06	0.999999
rad25	7.45972e-07	1.000000	7.45972e-07	1.000000
PhCHCCH2+H	2.52252e-07	1.000000	2.52252e-07	1.000000
Phenyl+Allene	2.95620e-08	1.000000	0.000000	1.000000
rad9	2.13993e-08	1.000000	2.13993e-08	1.000000
rad33	8.66955e-09	1.000000	8.66955e-09	1.000000
rad3	5.58636e-09	1.000000	5.58636e-09	1.000000
rad4	3.00975e-09	1.000000	3.00975e-09	1.000000
PhCH2CCH+H	1.13230e-09	1.000000	1.13230e-09	1.000000
rad24	1.12914e-09	1.000000	1.12914e-09	1.000000
rad28	5.44814e-10	1.000000	5.44814e-10	1.000000
rad30	5.04065e-11	1.000000	5.04065e-11	1.000000
rad2	3.85001e-11	1.000000	3.85001e-11	1.000000
rad15	1.24849e-11	1.000000	1.24849e-11	1.000000
rad8	9.43272e-12	1.000000	9.43272e-12	1.000000
PhCCH+CH3	4.79019e-12	1.000000	4.79019e-12	1.000000
rad1	2.97089e-12	1.000000	2.97089e-12	1.000000
PAH7+H	8.18580e-13	1.000000	8.18580e-13	1.000000
rad14	9.26280e-14	1.000000	9.26280e-14	1.000000
rad38	6.00593e-14	1.000000	6.00593e-14	1.000000
Ph+MeAc	3.12546e-14	1.000000	3.12546e-14	1.000000
rad10	2.89609e-14	1.000000	2.89609e-14	1.000000
rad60syn	2.11835e-14	1.000000	2.11835e-14	1.000000
rad60anti	8.47153e-15	1.000000	8.47153e-15	1.000000
rad46	1.51952e-15	1.000000	1.51952e-15	1.000000
PAH9+H	1.24133e-15	1.000000	1.24133e-15	1.000000
rad35	1.16617e-15	1.000000	1.16617e-15	1.000000
PAH3+H	1.01605e-15	1.000000	1.01605e-15	1.000000
PhCCCH3+H	5.87106e-16	1.000000	5.87106e-16	1.000000
rad59	2.63079e-16	1.000000	2.63079e-16	1.000000
rad27	1.04361e-16	1.000000	1.04361e-16	1.000000
rad26	8.45195e-17	1.000000	8.45195e-17	1.000000
rad39	2.44335e-17	1.000000	2.44335e-17	1.000000
rad31	7.29196e-18	1.000000	7.29196e-18	1.000000
rad19syn	1.02579e-18	1.000000	1.02579e-18	1.000000
rad50	7.60132e-19	1.000000	7.60132e-19	1.000000
rad70	5.55348e-19	1.000000	5.55348e-19	1.000000
rad54	5.20744e-19	1.000000	5.20744e-19	1.000000
rad5	1.34267e-20	1.000000	1.34267e-20	1.000000
rad34	2.14777e-21	1.000000	2.14777e-21	1.000000
rad52	1.41865e-21	1.000000	1.41865e-21	1.000000
rad55	1.19794e-21	1.000000	1.19794e-21	1.000000
PhcycC3H3_A+H	5.68566e-22	1.000000	5.68566e-22	1.000000
rad58	4.27320e-22	1.000000	4.27320e-22	1.000000
rad62	2.60130e-22	1.000000	2.60130e-22	1.000000
rad51	1.52996e-22	1.000000	1.52996e-22	1.000000
rad12	6.71815e-23	1.000000	6.71815e-23	1.000000
rad37	1.04930e-23	1.000000	1.04930e-23	1.000000
rad43	2.44859e-24	1.000000	2.44859e-24	1.000000
rad47	1.92037e-25	1.000000	1.92037e-25	1.000000
rad65	3.65187e-26	1.000000	3.65187e-26	1.000000
PAH1+H	3.03026e-26	1.000000	3.03026e-26	1.000000
rad42	4.27463e-27	1.000000	4.27463e-27	1.000000
PAH10+CH3	2.83781e-27	1.000000	2.83781e-27	1.000000
rad41	9.58287e-30	1.000000	9.58287e-30	1.000000

100000.000 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	2.15887e-16 (1.00)	2.15887e-16 (1.00)
Formation of rad11	1.64133e-16 (0.760)	1.64133e-16 (0.760)
Formation of rad6	4.32452e-17 (0.200)	4.32452e-17 (0.200)
H-abstraction	8.50919e-18 (0.0394)	8.50919e-18 (0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.748943	0.748943	0.748943	0.748943
rad6	0.210882	0.959825	0.210882	0.959825
Benzene+2-propynyl	0.0394150	0.999240	0.0394150	0.999240
rad22	0.000256915	0.999497	0.000256915	0.999497
rad20	0.000191104	0.999688	0.000191104	0.999688
rad21	0.000175219	0.999863	0.000175219	0.999863
rad18	5.86678e-05	0.999922	5.86678e-05	0.999922
rad45	4.08419e-05	0.999963	4.08419e-05	0.999963
Indene+H	1.76701e-05	0.999981	1.76701e-05	0.999981
rad7	6.14407e-06	0.999987	6.14407e-06	0.999987
C2H2+PhCH2	4.12933e-06	0.999991	4.12933e-06	0.999991
rad13	3.23305e-06	0.999994	3.23305e-06	0.999994
rad36	2.66882e-06	0.999997	2.66882e-06	0.999997
rad23	1.55732e-06	0.999998	1.55732e-06	0.999998
rad25	8.79428e-07	0.999999	8.79428e-07	0.999999
PhCHCCH2+H	3.32242e-07	1.000000	3.32242e-07	1.000000
Phenyl+Allene	4.34177e-08	1.000000	0.000000	1.000000
rad9	2.85857e-08	1.000000	2.85857e-08	1.000000
rad33	8.95142e-09	1.000000	8.95142e-09	1.000000
rad3	7.15623e-09	1.000000	7.15623e-09	1.000000
rad4	3.86800e-09	1.000000	3.86800e-09	1.000000
PhCH2CCH+H	1.88829e-09	1.000000	1.88829e-09	1.000000
rad24	1.14663e-09	1.000000	1.14663e-09	1.000000
rad28	7.33947e-10	1.000000	7.33947e-10	1.000000
rad30	7.84746e-11	1.000000	7.84746e-11	1.000000
rad2	6.04636e-11	1.000000	6.04636e-11	1.000000
rad15	1.99050e-11	1.000000	1.99050e-11	1.000000
rad8	1.56995e-11	1.000000	1.56995e-11	1.000000
PhCCH+CH3	8.63210e-12	1.000000	8.63210e-12	1.000000
rad1	4.71981e-12	1.000000	4.71981e-12	1.000000
PAH7+H	1.55427e-12	1.000000	1.55427e-12	1.000000
rad14	1.54262e-13	1.000000	1.54262e-13	1.000000
rad38	9.99777e-14	1.000000	9.99777e-14	1.000000
Ph+MeAc	6.31097e-14	1.000000	6.31097e-14	1.000000
rad10	5.70002e-14	1.000000	5.70002e-14	1.000000
rad60syn	3.87658e-14	1.000000	3.87658e-14	1.000000
rad60anti	1.57382e-14	1.000000	1.57382e-14	1.000000
rad46	2.75291e-15	1.000000	2.75291e-15	1.000000
PAH9+H	2.42076e-15	1.000000	2.42076e-15	1.000000
rad35	2.30887e-15	1.000000	2.30887e-15	1.000000
PAH3+H	2.23708e-15	1.000000	2.23708e-15	1.000000
PhCCCH3+H	1.34137e-15	1.000000	1.34137e-15	1.000000
rad59	5.68695e-16	1.000000	5.68695e-16	1.000000
rad27	2.00104e-16	1.000000	2.00104e-16	1.000000
rad26	1.65004e-16	1.000000	1.65004e-16	1.000000
rad39	4.97139e-17	1.000000	4.97139e-17	1.000000
rad31	1.04757e-17	1.000000	1.04757e-17	1.000000
rad19syn	2.53959e-18	1.000000	2.53959e-18	1.000000
rad50	1.82850e-18	1.000000	1.82850e-18	1.000000
rad70	1.64670e-18	1.000000	1.64670e-18	1.000000
rad54	1.27414e-18	1.000000	1.27414e-18	1.000000
rad5	3.64246e-20	1.000000	3.64246e-20	1.000000
rad34	6.95197e-21	1.000000	6.95197e-21	1.000000
rad52	3.98718e-21	1.000000	3.98718e-21	1.000000
rad55	3.35113e-21	1.000000	3.35113e-21	1.000000
PhcycC3H3_A+H	1.69050e-21	1.000000	1.69050e-21	1.000000
rad58	1.34518e-21	1.000000	1.34518e-21	1.000000
rad62	8.00563e-22	1.000000	8.00563e-22	1.000000
rad51	4.83096e-22	1.000000	4.83096e-22	1.000000
rad12	1.75620e-22	1.000000	1.75620e-22	1.000000
rad37	2.87452e-23	1.000000	2.87452e-23	1.000000
rad43	8.02093e-24	1.000000	8.02093e-24	1.000000
rad47	6.34742e-25	1.000000	6.34742e-25	1.000000
rad65	1.25746e-25	1.000000	1.25746e-25	1.000000
PAH1+H	9.59559e-26	1.000000	9.59559e-26	1.000000
rad42	1.49168e-26	1.000000	1.49168e-26	1.000000
PAH10+CH3	9.07527e-27	1.000000	9.07527e-27	1.000000
rad41	3.55895e-29	1.000000	3.55895e-29	1.000000

100000.000 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	2.79491e-16 (1.00)	2.79491e-16 (1.00)
Formation of rad11	2.09281e-16 (0.749)	2.09281e-16 (0.749)
Formation of rad6	5.79792e-17 (0.207)	5.79792e-17 (0.207)
H-abstraction	1.22310e-17 (0.0438)	1.22310e-17 (0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.736327	0.736327	0.736327	0.736327
rad6	0.219059	0.955386	0.219059	0.955386
Benzene+2-propynyl	0.0437616	0.999148	0.0437616	0.999148
rad22	0.000299211	0.999447	0.000299211	0.999447
rad20	0.000205184	0.999652	0.000205184	0.999652
rad21	0.000184224	0.999837	0.000184224	0.999837
rad18	6.88770e-05	0.999905	6.88770e-05	0.999905
rad45	4.85771e-05	0.999954	4.85771e-05	0.999954
Indene+H	2.34818e-05	0.999978	2.34818e-05	0.999978
rad7	7.23242e-06	0.999985	7.23242e-06	0.999985
C2H2+PhCH2	5.54804e-06	0.999990	5.54804e-06	0.999990
rad13	3.40526e-06	0.999994	3.40526e-06	0.999994
rad36	3.19296e-06	0.999997	3.19296e-06	0.999997
rad23	2.07711e-06	0.999999	2.07711e-06	0.999999
rad25	1.03516e-06	1.00000	1.03516e-06	1.00000
PhCHCCH2+H	4.37640e-07	1.00000	4.37640e-07	1.00000
Phenyl+Allene	6.33409e-08	1.00000	0.00000	1.00000
rad9	3.81460e-08	1.00000	3.81461e-08	1.00000
rad33	9.20826e-09	1.00000	9.20826e-09	1.00000
rad3	9.13065e-09	1.00000	9.13065e-09	1.00000
rad4	4.95293e-09	1.00000	4.95293e-09	1.00000
PhCH2CCH+H	3.09717e-09	1.00000	3.09717e-09	1.00000
rad24	1.16742e-09	1.00000	1.16742e-09	1.00000
rad28	9.84878e-10	1.00000	9.84878e-10	1.00000
rad30	1.21053e-10	1.00000	1.21053e-10	1.00000
rad2	9.45412e-11	1.00000	9.45412e-11	1.00000
rad15	3.14088e-11	1.00000	3.14088e-11	1.00000
rad8	2.57779e-11	1.00000	2.57779e-11	1.00000
PhCCH+CH3	1.54000e-11	1.00000	1.54000e-11	1.00000
rad1	7.47391e-12	1.00000	7.47391e-12	1.00000
PAH7+H	2.87864e-12	1.00000	2.87864e-12	1.00000
rad14	2.54023e-13	1.00000	2.54023e-13	1.00000
rad38	1.66580e-13	1.00000	1.66580e-13	1.00000
Ph+MeAc	1.24965e-13	1.00000	1.24965e-13	1.00000
rad10	1.11036e-13	1.00000	1.11036e-13	1.00000
rad60syn	6.95648e-14	1.00000	6.95648e-14	1.00000
rad60anti	2.86319e-14	1.00000	2.86319e-14	1.00000
rad46	4.97258e-15	1.00000	4.97258e-15	1.00000
PAH3+H	4.74336e-15	1.00000	4.74336e-15	1.00000
PAH9+H	4.70291e-15	1.00000	4.70291e-15	1.00000
rad35	4.49222e-15	1.00000	4.49222e-15	1.00000
PhCCCH3+H	2.99424e-15	1.00000	2.99424e-15	1.00000
rad59	1.18585e-15	1.00000	1.18585e-15	1.00000
rad27	3.75925e-16	1.00000	3.75925e-16	1.00000
rad26	3.15335e-16	1.00000	3.15335e-16	1.00000
rad39	9.89573e-17	1.00000	9.89573e-17	1.00000
rad31	1.51350e-17	1.00000	1.51350e-17	1.00000
rad19syn	5.95375e-18	1.00000	5.95375e-18	1.00000
rad70	4.49658e-18	1.00000	4.49658e-18	1.00000
rad50	4.27007e-18	1.00000	4.27007e-18	1.00000
rad54	2.94022e-18	1.00000	2.94022e-18	1.00000
rad5	9.41823e-20	1.00000	9.41823e-20	1.00000
rad34	2.04608e-20	1.00000	2.04608e-20	1.00000
rad52	1.06407e-20	1.00000	1.06407e-20	1.00000
rad55	8.65795e-21	1.00000	8.65795e-21	1.00000
PhcycC3H3_A+H	4.61722e-21	1.00000	4.61722e-21	1.00000
rad58	3.87516e-21	1.00000	3.87516e-21	1.00000
rad62	2.27929e-21	1.00000	2.27929e-21	1.00000
rad51	1.42257e-21	1.00000	1.42257e-21	1.00000
rad12	4.37611e-22	1.00000	4.37611e-22	1.00000
rad37	7.44805e-23	1.00000	7.44806e-23	1.00000
rad43	2.42860e-23	1.00000	2.42860e-23	1.00000
rad47	1.93353e-24	1.00000	1.93353e-24	1.00000
rad65	3.98629e-25	1.00000	3.98629e-25	1.00000
PAH1+H	2.76944e-25	1.00000	2.76944e-25	1.00000
rad42	4.73166e-26	1.00000	4.73166e-26	1.00000
PAH10+CH3	2.66747e-26	1.00000	2.66747e-26	1.00000
rad41	1.20146e-28	1.00000	1.20146e-28	1.00000

100000.000 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	3.55893e-16 (1.00)	3.55893e-16 (1.00)
Formation of rad11	2.62555e-16 (0.738)	2.62555e-16 (0.738)
Formation of rad6	7.62093e-17 (0.214)	7.62093e-17 (0.214)
H-abstraction	1.71289e-17 (0.0481)	1.71289e-17 (0.0481)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.724001	0.724001	0.724001	0.724001
rad6	0.226911	0.950912	0.226911	0.950912
Benzene+2-propynyl	0.0481294	0.999041	0.0481294	0.999041
rad22	0.000348247	0.999390	0.000348247	0.999390
rad20	0.000219601	0.999609	0.000219601	0.999609
rad21	0.000193467	0.999803	0.000193467	0.999803
rad18	8.04204e-05	0.999883	8.04204e-05	0.999883
rad45	5.77449e-05	0.999941	5.77449e-05	0.999941
Indene+H	3.10471e-05	0.999972	3.10471e-05	0.999972
rad7	8.49653e-06	0.999980	8.49653e-06	0.999980
C2H2+PhCH2	7.42554e-06	0.999988	7.42554e-06	0.999988
rad36	3.82042e-06	0.999992	3.82042e-06	0.999992
rad13	3.56915e-06	0.999995	3.56915e-06	0.999995
rad23	2.77161e-06	0.999998	2.77161e-06	0.999998
rad25	1.21576e-06	0.999999	1.21576e-06	0.999999
PhCHCCH2+H	5.76153e-07	1.000000	5.76153e-07	1.000000
Phenyl+Allene	9.17590e-08	1.000000	0.000000	1.000000
rad9	5.08211e-08	1.000000	5.08211e-08	1.000000
rad3	1.16058e-08	1.000000	1.16058e-08	1.000000
rad33	9.44309e-09	1.000000	9.44309e-09	1.000000
rad4	6.32057e-09	1.000000	6.32057e-09	1.000000
PhCH2CCH+H	4.99852e-09	1.000000	4.99852e-09	1.000000
rad28	1.31659e-09	1.000000	1.31659e-09	1.000000
rad24	1.19135e-09	1.000000	1.19135e-09	1.000000
rad30	1.84850e-10	1.000000	1.84850e-10	1.000000
rad2	1.47070e-10	1.000000	1.47070e-10	1.000000
rad15	4.90046e-11	1.000000	4.90046e-11	1.000000
rad8	4.17356e-11	1.000000	4.17356e-11	1.000000
PhCCH+CH3	2.71540e-11	1.000000	2.71540e-11	1.000000
rad1	1.17883e-11	1.000000	1.17883e-11	1.000000
PAH7+H	5.20047e-12	1.000000	5.20047e-12	1.000000
rad14	4.13132e-13	1.000000	4.13132e-13	1.000000
rad38	2.77407e-13	1.000000	2.77407e-13	1.000000
Ph+MeAc	2.42230e-13	1.000000	2.42230e-13	1.000000
rad10	2.13502e-13	1.000000	2.13502e-13	1.000000
rad60syn	1.22326e-13	1.000000	1.22326e-13	1.000000
rad60anti	5.09778e-14	1.000000	5.09778e-14	1.000000
PAH3+H	9.69052e-15	1.000000	9.69052e-15	1.000000
PAH9+H	9.07387e-15	1.000000	9.07387e-15	1.000000
rad46	8.93944e-15	1.000000	8.93944e-15	1.000000
rad35	8.57188e-15	1.000000	8.57188e-15	1.000000
PhCCCH3+H	6.51044e-15	1.000000	6.51044e-15	1.000000
rad59	2.38636e-15	1.000000	2.38636e-15	1.000000
rad27	6.91181e-16	1.000000	6.91181e-16	1.000000
rad26	5.90041e-16	1.000000	5.90041e-16	1.000000
rad39	1.92219e-16	1.000000	1.92219e-16	1.000000
rad31	2.20070e-17	1.000000	2.20070e-17	1.000000
rad19syn	1.32439e-17	1.000000	1.32439e-17	1.000000
rad70	1.13865e-17	1.000000	1.13865e-17	1.000000
rad50	9.67234e-18	1.000000	9.67234e-18	1.000000
rad54	6.42074e-18	1.000000	6.42074e-18	1.000000
rad5	2.32129e-19	1.000000	2.32129e-19	1.000000
rad34	5.52590e-20	1.000000	5.52590e-20	1.000000
rad52	2.70168e-20	1.000000	2.70168e-20	1.000000
rad55	2.07985e-20	1.000000	2.07985e-20	1.000000
PhcycC3H3_A+H	1.16705e-20	1.000000	1.16705e-20	1.000000
rad58	1.02961e-20	1.000000	1.02961e-20	1.000000
rad62	6.04056e-21	1.000000	6.04056e-21	1.000000
rad51	3.92581e-21	1.000000	3.92581e-21	1.000000
rad12	1.03923e-21	1.000000	1.03923e-21	1.000000
rad37	1.82710e-22	1.000000	1.82710e-22	1.000000
rad43	6.83913e-23	1.000000	6.83913e-23	1.000000
rad47	5.47347e-24	1.000000	5.47347e-24	1.000000
rad65	1.17186e-24	1.000000	1.17186e-24	1.000000
PAH1+H	7.35067e-25	1.000000	7.35067e-25	1.000000
rad42	1.37754e-25	1.000000	1.37754e-25	1.000000
PAH10+CH3	7.25621e-26	1.000000	7.25621e-26	1.000000
rad41	3.72196e-28	1.000000	3.72196e-28	1.000000

100000.000 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	6.34395e-16	(1.00)	6.34395e-16	(1.00)
Formation of rad11	4.51153e-16	(0.711)	4.51153e-16	(0.711)
Formation of rad6	1.51589e-16	(0.239)	1.51589e-16	(0.239)
H-abstraction	3.16530e-17	(0.0499)	3.16530e-17	(0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.683057	0.683057	0.683057	0.683057
rad6	0.264970	0.948027	0.264970	0.948027
Benzene+2-propynyl	0.0498949	0.997922	0.0498949	0.997922
rad22	0.000920189	0.998842	0.000920189	0.998842
rad20	0.000294254	0.999137	0.000294254	0.999137
rad21	0.000256357	0.999393	0.000256357	0.999393
rad18	0.000172979	0.999566	0.000172979	0.999566
rad45	0.000168895	0.999735	0.000168895	0.999735
Indene+H	0.000166772	0.999902	0.000166772	0.999902
C2H2+PhCH2	4.77069e-05	0.999949	4.77070e-05	0.999949
rad23	1.91555e-05	0.999968	1.91555e-05	0.999968
rad7	1.62379e-05	0.999985	1.62379e-05	0.999985
rad36	5.83214e-06	0.999990	5.83214e-06	0.999990
rad13	3.79221e-06	0.999994	3.79221e-06	0.999994
rad25	2.72511e-06	0.999997	2.72511e-06	0.999997
PhCHCCH2+H	2.37496e-06	0.999999	2.37496e-06	0.999999
Phenyl+Allene	3.64476e-07	1.000000	0.000000	0.999999
rad9	2.30873e-07	1.000000	2.30873e-07	1.000000
PhCH2CCH+H	4.94531e-08	1.000000	4.94531e-08	1.000000
rad3	2.98418e-08	1.000000	2.98418e-08	1.000000
rad4	1.53756e-08	1.000000	1.53756e-08	1.000000
rad33	1.01038e-08	1.000000	1.01039e-08	1.000000
rad28	4.34388e-09	1.000000	4.34388e-09	1.000000
rad30	2.07359e-09	1.000000	2.07359e-09	1.000000
rad24	1.88775e-09	1.000000	1.88775e-09	1.000000
rad2	1.40460e-09	1.000000	1.40460e-09	1.000000
rad15	7.20661e-10	1.000000	7.20661e-10	1.000000
PhCCH+CH3	6.76401e-10	1.000000	6.76401e-10	1.000000
rad1	1.09475e-10	1.000000	1.09475e-10	1.000000
PAH7+H	9.89801e-11	1.000000	9.89801e-11	1.000000
rad38	1.72533e-11	1.000000	1.72533e-11	1.000000
Ph+MeAc	1.32088e-11	1.000000	1.32088e-11	1.000000
rad10	1.24169e-11	1.000000	1.24169e-11	1.000000
PAH9+H	5.23641e-12	1.000000	5.23642e-12	1.000000
rad14	3.76830e-12	1.000000	3.76830e-12	1.000000
rad60syn	2.74788e-12	1.000000	2.74788e-12	1.000000
rad19anti	2.08970e-12	1.000000	2.08971e-12	1.000000
PhCCCH3+H	1.72651e-12	1.000000	1.72651e-12	1.000000
rad35	1.51308e-12	1.000000	1.51308e-12	1.000000
rad46	1.31076e-12	1.000000	1.31076e-12	1.000000
rad60anti	1.24408e-12	1.000000	1.24408e-12	1.000000
PAH3+H	5.72583e-13	1.000000	5.72583e-13	1.000000
rad59	1.12302e-13	1.000000	1.12302e-13	1.000000
rad26	6.37700e-14	1.000000	6.37700e-14	1.000000
rad50	2.59840e-14	1.000000	2.59841e-14	1.000000
rad12	1.80204e-14	1.000000	1.80204e-14	1.000000
rad27	1.54099e-14	1.000000	1.54099e-14	1.000000
rad39	8.79587e-15	1.000000	8.79587e-15	1.000000
rad70	2.36038e-15	1.000000	2.36038e-15	1.000000
rad19syn	1.32227e-15	1.000000	1.32227e-15	1.000000
rad52	5.25878e-16	1.000000	5.25879e-16	1.000000
rad51	4.78961e-16	1.000000	4.78961e-16	1.000000
rad54	2.96034e-16	1.000000	2.96034e-16	1.000000
rad5	2.63633e-16	1.000000	2.63634e-16	1.000000
rad31	1.69953e-16	1.000000	1.69953e-16	1.000000
rad34	4.49357e-17	1.000000	4.49357e-17	1.000000
rad67	3.75561e-17	1.000000	3.75562e-17	1.000000
rad62	1.68034e-17	1.000000	1.68034e-17	1.000000
PhcycC3H3_A+H	1.38393e-17	1.000000	1.38393e-17	1.000000
rad37	1.14318e-17	1.000000	1.14318e-17	1.000000
rad65	5.62850e-18	1.000000	5.62851e-18	1.000000
rad58	5.55145e-18	1.000000	5.55145e-18	1.000000
rad55	3.03521e-18	1.000000	3.03521e-18	1.000000
rad43	2.01394e-18	1.000000	2.01394e-18	1.000000
PAH10+CH3	7.68613e-19	1.000000	7.68614e-19	1.000000
PAH1+H	2.16822e-19	1.000000	2.16822e-19	1.000000
rad42	2.91034e-20	1.000000	2.91034e-20	1.000000
rad73	1.80276e-20	1.000000	1.80276e-20	1.000000
rad47	1.11639e-20	1.000000	1.11639e-20	1.000000
rad71	4.82469e-21	1.000000	4.82469e-21	1.000000
rad41	4.04052e-21	1.000000	4.04052e-21	1.000000
rad53	1.74170e-21	1.000000	1.74170e-21	1.000000
rad64	9.70789e-22	1.000000	9.70789e-22	1.000000

rad68syn	2.72637e-22	1.00000	2.72637e-22	1.000000
rad68anti	1.93180e-22	1.00000	1.93180e-22	1.000000
rad56	9.15887e-23	1.00000	9.15887e-23	1.000000
rad61	3.27318e-23	1.00000	3.27318e-23	1.000000
PAH8+H	2.40492e-23	1.00000	2.40492e-23	1.000000
rad40syn	8.95062e-24	1.00000	8.95062e-24	1.000000
rad40anti	3.50662e-24	1.00000	3.50662e-24	1.000000
rad72	2.61464e-24	1.00000	2.61464e-24	1.000000
rad8	5.37871e-27	1.00000	5.37871e-27	1.000000

100000.000 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.11288e-15 (1.00)	5.11285e-15 (1.00)
Formation of rad11	3.08094e-15 (0.603)	3.08092e-15 (0.603)
Formation of rad6	1.54092e-15 (0.301)	1.54091e-15 (0.301)
H-abstraction	4.91025e-16 (0.0960)	4.91025e-16 (0.0960)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.534114	0.534114	0.534117	0.534117
rad6	0.363737	0.897851	0.363739	0.897856
Benzene+2-propynyl	0.0960368	0.993887	0.0960374	0.993894
rad22	0.00275994	0.996647	0.00275995	0.996654
Indene+H	0.00107967	0.997727	0.00107967	0.997733
rad45	0.000542592	0.998270	0.000542596	0.998276
C2H2+PhCH2	0.000366160	0.998636	0.000366163	0.998642
rad20	0.000358763	0.998995	0.000358766	0.999001
rad18	0.000342405	0.999337	0.000342407	0.999343
rad21	0.000294671	0.999632	0.000294673	0.999638
rad23	0.000229168	0.999861	0.000229169	0.999867
rad7	7.32368e-05	0.999934	7.32373e-05	0.999940
PhCHCCH2+H	2.25278e-05	0.999957	2.25280e-05	0.999963
rad36	2.09868e-05	0.999978	2.09868e-05	0.999984
rad25	6.93636e-06	0.999984	6.93641e-06	0.999991
Phenyl+Allene	6.27619e-06	0.999991	0.00000	0.999991
rad13	5.35707e-06	0.999996	5.35710e-06	0.999996
rad9	2.32708e-06	0.999998	2.32710e-06	0.999999
PhCH2CCH+H	1.36264e-06	1.000000	1.36265e-06	1.000000
rad3	2.08183e-07	1.000000	2.08184e-07	1.000000
rad4	1.13051e-07	1.000000	1.13052e-07	1.000000
PhCCH+CH3	6.99756e-08	1.000000	6.99760e-08	1.000000
rad28	6.46540e-08	1.000000	6.46544e-08	1.000000
rad2	5.39539e-08	1.000000	5.39542e-08	1.000000
rad30	2.86861e-08	1.000000	2.86863e-08	1.000000
PAH9+H	1.60248e-08	1.000000	1.60249e-08	1.000000
rad33	1.36579e-08	1.000000	1.36580e-08	1.000000
rad38	9.84154e-09	1.000000	9.84162e-09	1.000000
rad15	7.70208e-09	1.000000	7.70212e-09	1.000000
rad1	5.16422e-09	1.000000	5.16425e-09	1.000000
PAH7+H	4.06176e-09	1.000000	4.06178e-09	1.000000
Ph+MeAc	3.52060e-09	1.000000	3.52062e-09	1.000000
rad35	3.17668e-09	1.000000	3.17670e-09	1.000000
rad24	2.91502e-09	1.000000	2.91504e-09	1.000000
rad10	2.32148e-09	1.000000	2.32149e-09	1.000000
rad46	1.71541e-09	1.000000	1.71543e-09	1.000000
PhCCCH3+H	1.26691e-09	1.000000	1.26692e-09	1.000000
rad50	2.77470e-10	1.000000	2.77471e-10	1.000000
rad19anti	1.56500e-10	1.000000	1.56501e-10	1.000000
rad14	8.79602e-11	1.000000	8.79608e-11	1.000000
rad60syn	7.99330e-11	1.000000	7.99335e-11	1.000000
rad26	7.39741e-11	1.000000	7.39746e-11	1.000000
rad39	7.28202e-11	1.000000	7.28207e-11	1.000000
PAH3+H	4.08572e-11	1.000000	4.08575e-11	1.000000
rad60anti	3.85954e-11	1.000000	3.85957e-11	1.000000
rad51	2.46221e-11	1.000000	2.46222e-11	1.000000
rad52	1.32117e-11	1.000000	1.32118e-11	1.000000
rad59	7.04124e-12	1.000000	7.04128e-12	1.000000
rad37	1.14381e-12	1.000000	1.14382e-12	1.000000
rad27	8.46257e-13	1.000000	8.46262e-13	1.000000
rad19syn	6.48809e-13	1.000000	6.48813e-13	1.000000
rad65	6.40853e-13	1.000000	6.40857e-13	1.000000
rad70	5.53032e-13	1.000000	5.53036e-13	1.000000
PAH10+CH3	5.24490e-13	1.000000	5.24494e-13	1.000000
rad12	2.33934e-13	1.000000	2.33935e-13	1.000000
PAH1+H	2.07959e-13	1.000000	2.07959e-13	1.000000
rad54	1.77788e-13	1.000000	1.77789e-13	1.000000
rad5	1.67576e-13	1.000000	1.67577e-13	1.000000
rad67	9.86685e-14	1.000000	9.86693e-14	1.000000

PhcycC3H3_A+H	8.63408e-14	1.00000	8.63413e-14	1.00000
rad73	3.60489e-14	1.00000	3.60491e-14	1.00000
rad34	2.48257e-14	1.00000	2.48259e-14	1.00000
rad58	2.46071e-14	1.00000	2.46072e-14	1.00000
rad71	2.31831e-14	1.00000	2.31832e-14	1.00000
rad62	1.69419e-14	1.00000	1.69420e-14	1.00000
rad31	1.52793e-14	1.00000	1.52794e-14	1.00000
rad43	9.15733e-15	1.00000	9.15732e-15	1.00000
rad55	6.58618e-15	1.00000	6.58622e-15	1.00000
rad64	2.22945e-15	1.00000	2.22946e-15	1.00000
rad53	4.89762e-16	1.00000	4.89765e-16	1.00000
rad56	2.88682e-16	1.00000	2.88684e-16	1.00000
rad61	1.93705e-16	1.00000	1.93706e-16	1.00000
PAH8+H	1.68578e-16	1.00000	1.68580e-16	1.00000
rad68syn	1.63292e-16	1.00000	1.63294e-16	1.00000
rad72	1.32514e-16	1.00000	1.32515e-16	1.00000
rad42	1.31340e-16	1.00000	1.31341e-16	1.00000
rad68anti	1.08366e-16	1.00000	1.08367e-16	1.00000
rad41	6.14416e-17	1.00000	6.14420e-17	1.00000
rad47	3.44961e-17	1.00000	3.44962e-17	1.00000
rad40syn	3.15850e-17	1.00000	3.15852e-17	1.00000
rad40anti	1.55344e-17	1.00000	1.55345e-17	1.00000
rad8	1.37107e-25	1.00000	1.37108e-25	1.00000

100000.000 Pa, 500.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.11551e-14	(1.00)	2.11539e-14	(1.00)
Formation of rad11	1.10850e-14	(0.524)	1.10842e-14	(0.524)
Formation of rad6	7.08033e-15	(0.335)	7.07985e-15	(0.335)
H-abstraction	2.98976e-15	(0.141)	2.98976e-15	(0.141)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.464572	0.464572	0.464599	0.464599
rad11	0.378662	0.843234	0.378684	0.843283
Benzene+2-propynyl	0.141326	0.984559	0.141334	0.984617
rad22	0.00554266	0.990102	0.00554298	0.990160
Indene+H	0.00467681	0.994779	0.00467709	0.994837
C2H2+PhCH2	0.00173496	0.996514	0.00173506	0.996572
rad23	0.000984831	0.997499	0.000984890	0.997557
rad45	0.000957851	0.998456	0.000957902	0.998515
rad18	0.000399181	0.998856	0.000399205	0.998914
rad20	0.000329917	0.999186	0.000329936	0.999244
rad21	0.000269543	0.999455	0.000269558	0.999514
rad7	0.000238906	0.999694	0.000238920	0.999753
PhCHCCH2+H	0.000142043	0.999836	0.000142052	0.999895
Phenyl+Allene	5.90676e-05	0.999895	0.000000	0.999895
rad36	4.48275e-05	0.999940	4.48302e-05	0.999939
PhCH2CCH+H	1.78579e-05	0.999958	1.78590e-05	0.999957
rad9	1.48720e-05	0.999973	1.48729e-05	0.999972
rad25	1.00305e-05	0.999983	1.00311e-05	0.999982
rad13	6.95652e-06	0.999990	6.95693e-06	0.999989
PAH9+H	3.15804e-06	0.999993	3.15822e-06	0.999992
PhCCH+CH3	1.81611e-06	0.999995	1.81622e-06	0.999994
rad38	1.47840e-06	0.999996	1.47849e-06	0.999996
rad28	7.58828e-07	0.999997	7.58873e-07	0.999996
rad3	7.29846e-07	0.999998	7.29889e-07	0.999997
rad35	5.30284e-07	0.999998	5.30315e-07	0.999998
rad2	4.25168e-07	0.999999	4.25193e-07	0.999998
rad4	4.21224e-07	0.999999	4.21249e-07	0.999998
rad46	3.86014e-07	0.999999	3.86036e-07	0.999999
PAH7+H	2.82120e-07	1.000000	2.82137e-07	0.999999
Ph+MeAc	2.06705e-07	1.000000	2.06717e-07	0.999999
rad30	2.02979e-07	1.000000	2.02990e-07	1.000000
rad50	1.78456e-07	1.000000	1.78467e-07	1.000000
PhCCCH3+H	8.71271e-08	1.000000	8.71323e-08	1.000000
rad39	6.82107e-08	1.000000	6.82147e-08	1.000000
rad1	5.19170e-08	1.000000	5.19201e-08	1.000000
rad15	4.81479e-08	1.000000	4.81507e-08	1.000000
rad10	3.89283e-08	1.000000	3.89306e-08	1.000000
rad51	3.36229e-08	1.000000	3.36249e-08	1.000000
rad33	1.94005e-08	1.000000	1.94016e-08	1.000000
rad19anti	1.81464e-08	1.000000	1.81476e-08	1.000000
rad52	1.24708e-08	1.000000	1.24715e-08	1.000000
PAH3+H	6.36453e-09	1.000000	6.36490e-09	1.000000
rad24	6.30066e-09	1.000000	6.30103e-09	1.000000
rad26	4.66580e-09	1.000000	4.66609e-09	1.000000
PAH10+CH3	1.78899e-09	1.000000	1.78909e-09	1.000000

rad60syn	1.58264e-09	1.00000	1.58274e-09	1.00000
rad37	1.47792e-09	1.00000	1.47800e-09	1.00000
rad65	9.27248e-10	1.00000	9.27308e-10	1.00000
rad60anti	8.63371e-10	1.00000	8.63423e-10	1.00000
PAH1+H	7.81403e-10	1.00000	7.81449e-10	1.00000
rad59	7.20646e-10	1.00000	7.20689e-10	1.00000
rad19syn	5.60521e-10	1.00000	5.60554e-10	1.00000
rad14	4.42194e-10	1.00000	4.42221e-10	1.00000
rad71	3.43434e-10	1.00000	3.43453e-10	1.00000
rad73	3.16225e-10	1.00000	3.16244e-10	1.00000
rad67	2.72186e-10	1.00000	2.72201e-10	1.00000
PhcycC3H3_A+H	2.39708e-10	1.00000	2.39721e-10	1.00000
rad54	2.11541e-10	1.00000	2.11554e-10	1.00000
rad70	1.44257e-10	1.00000	1.44266e-10	1.00000
rad58	3.91557e-11	1.00000	3.91580e-11	1.00000
rad34	2.77135e-11	1.00000	2.77151e-11	1.00000
rad55	1.35182e-11	1.00000	1.35190e-11	1.00000
rad64	1.22617e-11	1.00000	1.22624e-11	1.00000
rad62	7.24381e-12	1.00000	7.24424e-12	1.00000
rad72	7.03727e-12	1.00000	7.03768e-12	1.00000
rad27	6.61067e-12	1.00000	6.61105e-12	1.00000
rad5	4.40472e-12	1.00000	4.40498e-12	1.00000
PAH8+H	3.37863e-12	1.00000	3.37882e-12	1.00000
rad12	3.13724e-12	1.00000	3.13743e-12	1.00000
rad43	3.00263e-12	1.00000	3.00281e-12	1.00000
rad53	2.37336e-12	1.00000	2.37350e-12	1.00000
rad61	2.07941e-12	1.00000	2.07953e-12	1.00000
rad56	2.00081e-12	1.00000	2.00093e-12	1.00000
rad68syn	1.38911e-12	1.00000	1.38920e-12	1.00000
rad31	1.29798e-12	1.00000	1.29806e-12	1.00000
rad68anti	9.08297e-13	1.00000	9.08348e-13	1.00000
rad40syn	4.46467e-13	1.00000	4.46493e-13	1.00000
rad42	3.87031e-13	1.00000	3.87054e-13	1.00000
rad40anti	2.54229e-13	1.00000	2.54243e-13	1.00000
rad47	1.33654e-13	1.00000	1.33663e-13	1.00000
rad41	9.12479e-14	1.00000	9.12539e-14	1.00000
rad8	1.88676e-23	1.00000	1.88688e-23	1.00000

100000.000 Pa, 600.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	6.08120e-14	(1.00)	6.07925e-14	(1.00)
Formation of rad11	2.83304e-14	(0.466)	2.83193e-14	(0.466)
Formation of rad6	2.13840e-14	(0.352)	2.13757e-14	(0.352)
H-abstraction	1.10975e-14	(0.182)	1.10975e-14	(0.183)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.561322	0.561322	0.561503	0.561503
rad11	0.226283	0.787606	0.226355	0.787858
Benzene+2-propynyl	0.182488	0.970094	0.182547	0.970405
Indene+H	0.0128120	0.982906	0.0128162	0.983221
rad22	0.00688019	0.989786	0.00688239	0.990104
C2H2+PhCH2	0.00509081	0.994877	0.00509245	0.995196
rad23	0.00159594	0.996473	0.00159645	0.996792
rad45	0.000939149	0.997412	0.000939450	0.997732
PhCHCCH2+H	0.000564781	0.997977	0.000564962	0.998297
rad7	0.000523208	0.998500	0.000523375	0.998820
Phenyl+Allene	0.000320637	0.998821	0.000000	0.998820
rad18	0.000308530	0.999129	0.000308629	0.999129
rad20	0.000253500	0.999383	0.000253581	0.999382
rad21	0.000216784	0.999599	0.000216854	0.999599
PhCH2CCH+H	0.000124146	0.999723	0.000124186	0.999723
rad36	5.56645e-05	0.999779	5.56823e-05	0.999779
PAH9+H	5.33131e-05	0.999832	5.33302e-05	0.999832
rad9	5.21221e-05	0.999885	5.21388e-05	0.999885
rad38	2.53223e-05	0.999910	2.53304e-05	0.999910
PhCCH+CH3	1.84306e-05	0.999928	1.84366e-05	0.999928
rad25	9.16970e-06	0.999938	9.17264e-06	0.999938
rad13	9.10757e-06	0.999947	9.11052e-06	0.999947
rad46	8.20831e-06	0.999955	8.21099e-06	0.999955
rad35	7.97861e-06	0.999963	7.98117e-06	0.999963
PAH7+H	7.96603e-06	0.999971	7.96858e-06	0.999971
rad50	6.87162e-06	0.999978	6.87382e-06	0.999978
rad28	6.11073e-06	0.999984	6.11269e-06	0.999984
rad39	3.02712e-06	0.999987	3.02808e-06	0.999987
Ph+MeAc	2.72187e-06	0.999990	2.72274e-06	0.999990
rad51	1.91687e-06	0.999991	1.91748e-06	0.999991
rad3	1.81561e-06	0.999993	1.81619e-06	0.999993

rad2	1.21680e-06	0.999994	1.21720e-06	0.999994
rad4	1.12581e-06	0.999996	1.12617e-06	0.999996
PhCCCH3+H	9.34146e-07	0.999997	9.34439e-07	0.999997
rad30	8.72669e-07	0.999997	8.72950e-07	0.999997
rad19anti	6.79233e-07	0.999998	6.79451e-07	0.999998
rad52	5.82765e-07	0.999999	5.82952e-07	0.999999
PAH3+H	2.28373e-07	0.999999	2.28446e-07	0.999999
rad1	1.82968e-07	0.999999	1.83027e-07	0.999999
rad15	1.62478e-07	0.999999	1.62530e-07	0.999999
PAH10+CH3	1.32501e-07	0.999999	1.32544e-07	0.999999
rad10	1.07760e-07	0.999999	1.07794e-07	1.000000
PAH1+H	6.54390e-08	1.000000	6.54599e-08	1.000000
rad37	6.28008e-08	1.000000	6.28210e-08	1.000000
rad71	5.59666e-08	1.000000	5.59846e-08	1.000000
rad65	5.08808e-08	1.000000	5.08971e-08	1.000000
rad73	4.17541e-08	1.000000	4.17674e-08	1.000000
rad33	3.36410e-08	1.000000	3.36518e-08	1.000000
rad26	2.96834e-08	1.000000	2.96928e-08	1.000000
rad19syn	2.43570e-08	1.000000	2.43648e-08	1.000000
rad60syn	2.26783e-08	1.000000	2.26856e-08	1.000000
rad59	2.21806e-08	1.000000	2.21877e-08	1.000000
rad24	2.20262e-08	1.000000	2.20333e-08	1.000000
rad67	1.91551e-08	1.000000	1.91613e-08	1.000000
PhcycC3H3_A+H	1.41939e-08	1.000000	1.41985e-08	1.000000
rad60anti	1.36035e-08	1.000000	1.36079e-08	1.000000
rad54	9.70779e-09	1.000000	9.71094e-09	1.000000
rad70	8.95069e-09	1.000000	8.95356e-09	1.000000
rad58	2.35312e-09	1.000000	2.35387e-09	1.000000
rad34	2.29597e-09	1.000000	2.29670e-09	1.000000
rad72	1.73275e-09	1.000000	1.73331e-09	1.000000
rad64	1.21678e-09	1.000000	1.21718e-09	1.000000
rad14	9.70288e-10	1.000000	9.70595e-10	1.000000
rad55	6.97110e-10	1.000000	6.97333e-10	1.000000
PAH8+H	6.51104e-10	1.000000	6.51313e-10	1.000000
rad62	5.52785e-10	1.000000	5.52962e-10	1.000000
rad61	2.66857e-10	1.000000	2.66943e-10	1.000000
rad56	1.98491e-10	1.000000	1.98554e-10	1.000000
rad68syn	1.93767e-10	1.000000	1.93829e-10	1.000000
rad53	1.89423e-10	1.000000	1.89484e-10	1.000000
rad43	1.45545e-10	1.000000	1.45592e-10	1.000000
rad68anti	1.25934e-10	1.000000	1.25974e-10	1.000000
rad47	9.53676e-11	1.000000	9.53984e-11	1.000000
rad40syn	7.59008e-11	1.000000	7.59252e-11	1.000000
rad42	4.70544e-11	1.000000	4.70695e-11	1.000000
rad12	4.57870e-11	1.000000	4.58017e-11	1.000000
rad40anti	4.55822e-11	1.000000	4.55968e-11	1.000000
rad31	3.29177e-11	1.000000	3.29282e-11	1.000000
rad5	1.43557e-11	1.000000	1.43603e-11	1.000000
rad27	1.33087e-11	1.000000	1.33130e-11	1.000000
rad41	9.63814e-12	1.000000	9.64121e-12	1.000000
rad8	1.26550e-20	1.000000	1.26591e-20	1.000000

100000.000 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.39564e-13 (1.00)	1.39405e-13 (1.00)
Formation of rad11	5.88273e-14 (0.422)	5.87420e-14 (0.421)
Formation of rad6	5.01684e-14 (0.359)	5.00956e-14 (0.359)
H-abstraction	3.05678e-14 (0.219)	3.05678e-14 (0.219)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.623049	0.623049	0.623757	0.623757
Benzene+2-propynyl	0.219024	0.842073	0.219273	0.843029
rad11	0.112156	0.954229	0.112283	0.955313
Indene+H	0.0222777	0.976507	0.0223030	0.977616
C2H2+PhCH2	0.0102265	0.986734	0.0102381	0.987854
rad22	0.00554608	0.992280	0.00555237	0.993406
rad23	0.00176768	0.994047	0.00176969	0.995176
PhCHCCH2+H	0.00155903	0.995606	0.00156080	0.996737
Phenyl+Allene	0.00113341	0.996740	0.000000	0.996737
rad7	0.000815112	0.997555	0.000816039	0.997553
rad45	0.000555859	0.998111	0.000556489	0.998109
PhCH2CCH+H	0.000510442	0.998621	0.000511021	0.998620
PAH9+H	0.000200141	0.998821	0.000200369	0.998821
rad20	0.000199743	0.999021	0.000199970	0.999021
rad21	0.000190229	0.999211	0.000190444	0.999211
rad18	0.000182844	0.999394	0.000183052	0.999394
PhCCH+CH3	0.000111330	0.999505	0.000111457	0.999506

rad38	9.68871e-05	0.999602	9.69968e-05	0.999603
rad9	9.37905e-05	0.999696	9.38965e-05	0.999696
rad36	4.11581e-05	0.999737	4.12048e-05	0.999738
PAH7+H	3.89449e-05	0.999776	3.89891e-05	0.999777
rad50	3.44965e-05	0.999811	3.45356e-05	0.999811
rad46	3.39585e-05	0.999845	3.39970e-05	0.999845
rad28	3.35250e-05	0.999878	3.35631e-05	0.999879
rad35	2.85749e-05	0.999907	2.86073e-05	0.999907
Ph+MeAc	1.73473e-05	0.999924	1.73669e-05	0.999925
rad39	1.61368e-05	0.999940	1.61552e-05	0.999941
rad13	1.29459e-05	0.999953	1.29606e-05	0.999954
rad51	1.07140e-05	0.999964	1.07262e-05	0.999965
rad25	6.70266e-06	0.999971	6.71026e-06	0.999971
rad19anti	5.79469e-06	0.999976	5.80126e-06	0.999977
PhCCCH3+H	4.66411e-06	0.999981	4.66940e-06	0.999982
rad52	3.08517e-06	0.999984	3.08867e-06	0.999985
rad3	3.00998e-06	0.999987	3.01340e-06	0.999988
rad2	2.43752e-06	0.999990	2.44029e-06	0.999990
rad30	2.31300e-06	0.999992	2.31562e-06	0.999993
rad4	2.02776e-06	0.999994	2.03007e-06	0.999995
PAH3+H	1.14769e-06	0.999995	1.14900e-06	0.999996
PAH10+CH3	7.84631e-07	0.999996	7.85521e-07	0.999997
rad1	4.37007e-07	0.999996	4.37503e-07	0.999997
PAH1+H	4.01122e-07	0.999997	4.01576e-07	0.999997
rad71	3.97228e-07	0.999997	3.97678e-07	0.999998
rad37	3.21842e-07	0.999997	3.22208e-07	0.999998
rad73	2.83510e-07	0.999998	2.83831e-07	0.999998
rad65	2.80096e-07	0.999998	2.80415e-07	0.999999
rad15	2.17725e-07	0.999998	2.17973e-07	0.999999
rad10	1.75324e-07	0.999998	1.75522e-07	0.999999
rad67	1.53247e-07	0.999999	1.53421e-07	0.999999
rad19syn	1.42685e-07	0.999999	1.42847e-07	0.999999
rad24	1.22471e-07	0.999999	1.22609e-07	0.999999
rad59	1.07729e-07	0.999999	1.07852e-07	1.000000
rad60syn	9.62638e-08	0.999999	9.63730e-08	1.000000
rad26	9.05534e-08	0.999999	9.06557e-08	1.000000
rad33	8.39244e-08	0.999999	8.40195e-08	1.000000
PhcycC3H3_A+H	8.14839e-08	0.999999	8.15766e-08	1.000000
rad60anti	5.88773e-08	0.999999	5.89441e-08	1.000000
rad70	5.55974e-08	0.999999	5.56605e-08	1.000000
rad54	5.49503e-08	0.999999	5.50127e-08	1.000000
rad34	1.45597e-08	0.999999	1.45763e-08	1.000000
rad72	1.33412e-08	0.999999	1.33563e-08	1.000000
rad58	1.32788e-08	1.000000	1.32938e-08	1.000000
rad64	7.73995e-09	1.000000	7.74874e-09	1.000000
PAH8+H	4.82558e-09	1.000000	4.83105e-09	1.000000
rad47	4.67967e-09	1.000000	4.68498e-09	1.000000
rad62	4.57239e-09	1.000000	4.57758e-09	1.000000
rad55	3.90517e-09	1.000000	3.90960e-09	1.000000
rad61	1.79414e-09	1.000000	1.79617e-09	1.000000
rad14	1.69727e-09	1.000000	1.69920e-09	1.000000
rad68syn	1.34468e-09	1.000000	1.34621e-09	1.000000
rad56	1.29195e-09	1.000000	1.29342e-09	1.000000
rad43	1.20947e-09	1.000000	1.21085e-09	1.000000
rad53	1.16137e-09	1.000000	1.16269e-09	1.000000
rad68anti	8.72865e-10	1.000000	8.73860e-10	1.000000
rad12	6.31869e-10	1.000000	6.32587e-10	1.000000
rad40syn	5.49534e-10	1.000000	5.50158e-10	1.000000
rad42	3.86473e-10	1.000000	3.86912e-10	1.000000
rad40anti	3.34054e-10	1.000000	3.34433e-10	1.000000
rad31	2.22642e-10	1.000000	2.22894e-10	1.000000
rad41	8.47077e-11	1.000000	8.48034e-11	1.000000
rad5	2.54879e-11	1.000000	2.55168e-11	1.000000
rad27	2.26382e-11	1.000000	2.26639e-11	1.000000
rad8	2.26770e-17	1.000000	2.27028e-17	1.000000

100000.000 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.75392e-13 (1.00)	2.74505e-13 (1.00)
Formation of rad11	1.06471e-13 (0.387)	1.06013e-13 (0.386)
Formation of rad6	9.97133e-14 (0.362)	9.92841e-14 (0.362)
H-abstraction	6.92082e-14 (0.251)	6.92082e-14 (0.252)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.635860	0.635860	0.637915	0.637915
Benzene+2-propynyl	0.251308	0.887168	0.252120	0.890035
rad11	0.0510875	0.938255	0.0512526	0.941288

Indene+H	0.0288306	0.967086	0.0289238	0.970212
C2H2+PhCH2	0.0160583	0.983144	0.0161102	0.986322
PhCHCCH2+H	0.00344285	0.986587	0.00345398	0.989776
rad22	0.00334284	0.989930	0.00335366	0.993130
Phenyl+Allene	0.00322275	0.993152	0.000000	0.993130
rad23	0.00156816	0.994720	0.00157322	0.994703
PhCH2CCH+H	0.00153875	0.996259	0.00154373	0.996247
rad7	0.00102905	0.997288	0.00103237	0.997279
PhCCH+CH3	0.000485833	0.997774	0.000487404	0.997766
rad45	0.000398534	0.998173	0.000399823	0.998166
PAH9+H	0.000345886	0.998519	0.000347004	0.998513
rad21	0.000221527	0.998740	0.000222243	0.998736
rad20	0.000201895	0.998942	0.000202548	0.998938
rad38	0.000168616	0.999111	0.000169161	0.999107
rad9	0.000134473	0.999245	0.000134907	0.999242
rad28	0.000121083	0.999366	0.000121475	0.999364
rad18	0.000100597	0.999467	0.000100922	0.999465
PAH7+H	9.24568e-05	0.999559	9.27558e-05	0.999557
Ph+MeAc	7.62446e-05	0.999635	7.64909e-05	0.999634
rad50	6.53576e-05	0.999701	6.55689e-05	0.999699
rad46	6.06021e-05	0.999761	6.07981e-05	0.999760
rad35	4.87588e-05	0.999810	4.89165e-05	0.999809
rad36	3.57804e-05	0.999846	3.58961e-05	0.999845
rad39	3.47507e-05	0.999881	3.48631e-05	0.999880
rad13	2.36459e-05	0.999904	2.37223e-05	0.999904
rad51	2.09542e-05	0.999925	2.10219e-05	0.999925
rad19anti	1.96347e-05	0.999945	1.96981e-05	0.999944
PhCCCH3+H	1.67022e-05	0.999962	1.67562e-05	0.999961
rad52	5.93433e-06	0.999968	5.95352e-06	0.999967
rad25	5.40578e-06	0.999973	5.42325e-06	0.999972
rad30	4.20863e-06	0.999977	4.22224e-06	0.999977
rad3	4.12115e-06	0.999981	4.13447e-06	0.999981
rad2	3.72893e-06	0.999985	3.74098e-06	0.999985
rad4	2.96386e-06	0.999988	2.97344e-06	0.999987
PAH3+H	2.24997e-06	0.999990	2.25724e-06	0.999990
PAH10+CH3	1.62790e-06	0.999992	1.63317e-06	0.999991
rad71	8.37188e-07	0.999993	8.39891e-07	0.999992
PAH1+H	8.19227e-07	0.999993	8.21875e-07	0.999993
rad1	7.64707e-07	0.999994	7.67175e-07	0.999994
rad37	6.66124e-07	0.999995	6.68278e-07	0.999994
rad24	6.56346e-07	0.999996	6.58469e-07	0.999995
rad67	6.31005e-07	0.999996	6.33045e-07	0.999996
rad73	5.89016e-07	0.999997	5.90920e-07	0.999996
rad19syn	5.73024e-07	0.999997	5.74876e-07	0.999997
rad65	5.44957e-07	0.999998	5.46719e-07	0.999997
rad33	3.41978e-07	0.999998	3.43083e-07	0.999998
rad26	2.87641e-07	0.999999	2.88571e-07	0.999998
rad10	2.77306e-07	0.999999	2.78202e-07	0.999998
PhcycC3H3_A+H	2.18005e-07	0.999999	2.18710e-07	0.999999
rad59	2.11944e-07	0.999999	2.12629e-07	0.999999
rad54	1.97822e-07	0.999999	1.98462e-07	0.999999
rad60syn	1.93974e-07	1.000000	1.94601e-07	0.999999
rad15	1.62857e-07	1.000000	1.63384e-07	0.999999
rad70	1.34451e-07	1.000000	1.34886e-07	1.000000
rad60anti	1.18431e-07	1.000000	1.18813e-07	1.000000
rad34	3.23422e-08	1.000000	3.24467e-08	1.000000
rad72	2.88842e-08	1.000000	2.89775e-08	1.000000
rad58	2.62158e-08	1.000000	2.63006e-08	1.000000
rad47	2.02357e-08	1.000000	2.03010e-08	1.000000
rad62	1.93336e-08	1.000000	1.93961e-08	1.000000
rad64	1.58251e-08	1.000000	1.58763e-08	1.000000
rad55	1.19157e-08	1.000000	1.19542e-08	1.000000
PAH8+H	1.04353e-08	1.000000	1.04690e-08	1.000000
rad12	8.07959e-09	1.000000	8.10575e-09	1.000000
rad43	5.33050e-09	1.000000	5.34774e-09	1.000000
rad61	3.80962e-09	1.000000	3.82193e-09	1.000000
rad14	3.50425e-09	1.000000	3.51558e-09	1.000000
rad68syn	2.83549e-09	1.000000	2.84466e-09	1.000000
rad56	2.78448e-09	1.000000	2.79348e-09	1.000000
rad53	2.58550e-09	1.000000	2.59386e-09	1.000000
rad68anti	1.84026e-09	1.000000	1.84620e-09	1.000000
rad42	1.55065e-09	1.000000	1.55566e-09	1.000000
rad40syn	1.18919e-09	1.000000	1.19304e-09	1.000000
rad31	8.13776e-10	1.000000	8.16401e-10	1.000000
rad40anti	7.32568e-10	1.000000	7.34936e-10	1.000000
rad41	3.76434e-10	1.000000	3.77651e-10	1.000000
rad27	5.57706e-11	1.000000	5.59509e-11	1.000000
rad5	4.27622e-11	1.000000	4.29005e-11	1.000000
rad8	3.43937e-14	1.000000	3.45049e-14	1.000000

100000.000 Pa, 900.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	4.88072e-13	(1.00)	4.83618e-13	(1.00)
Formation of rad11	1.74945e-13	(0.358)	1.72728e-13	(0.357)
Formation of rad6	1.76509e-13	(0.362)	1.74272e-13	(0.360)
H-abstraction	1.36618e-13	(0.280)	1.36618e-13	(0.282)

species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.609989	0.609989	0.615607	0.615607
Benzene+2-propynyl	0.279914	0.889903	0.282491	0.898098
Indene+H	0.0337724	0.923676	0.0340834	0.932181
rad11	0.0239674	0.947643	0.0241881	0.956370
C2H2+PhCH2	0.0228936	0.970537	0.0231044	0.979474
Phenyl+Allene	0.00912501	0.979662	0.000000	0.979474
PhCHCCH2+H	0.00706074	0.986722	0.00712576	0.986600
PhCH2CCH+H	0.00414676	0.990869	0.00418495	0.990785
PhCCH+CH3	0.00178757	0.992657	0.00180403	0.992589
rad22	0.00168194	0.994339	0.00169742	0.994286
rad7	0.00121138	0.995550	0.00122253	0.995509
rad23	0.00116172	0.996712	0.00117241	0.996681
PAH9+H	0.000468150	0.997180	0.000472461	0.997154
rad45	0.000400488	0.997580	0.000404176	0.997558
rad28	0.000304556	0.997885	0.000307361	0.997865
rad21	0.000281591	0.998166	0.000284184	0.998149
Ph+MeAc	0.000273008	0.998439	0.000275522	0.998425
PAH7+H	0.000259793	0.998699	0.000262186	0.998687
rad38	0.000228659	0.998928	0.000230764	0.998918
rad20	0.000225151	0.999153	0.000227224	0.999145
rad9	0.000178864	0.999332	0.000180511	0.999325
rad50	9.15194e-05	0.999423	9.23620e-05	0.999418
rad46	8.29453e-05	0.999506	8.37089e-05	0.999502
rad39	7.46578e-05	0.999581	7.53456e-05	0.999577
rad35	6.61486e-05	0.999647	6.67577e-05	0.999644
rad13	5.97042e-05	0.999707	6.02539e-05	0.999704
rad18	5.73862e-05	0.999764	5.79146e-05	0.999762
PhCCCH3+H	5.37753e-05	0.999818	5.42705e-05	0.999816
rad19anti	4.89494e-05	0.999867	4.94001e-05	0.999865
rad36	3.84631e-05	0.999905	3.88174e-05	0.999904
rad51	2.97040e-05	0.999935	2.99775e-05	0.999934
rad52	8.35703e-06	0.999944	8.43403e-06	0.999943
rad30	6.72167e-06	0.999950	6.78356e-06	0.999949
rad3	6.47863e-06	0.999957	6.53829e-06	0.999956
rad2	6.20299e-06	0.999963	6.26011e-06	0.999962
rad25	5.45401e-06	0.999968	5.50423e-06	0.999968
rad4	4.93547e-06	0.999973	4.98092e-06	0.999973
PAH3+H	3.47196e-06	0.999977	3.50394e-06	0.999976
rad19syn	3.17951e-06	0.999980	3.20879e-06	0.999979
PAH10+CH3	2.67846e-06	0.999983	2.70313e-06	0.999982
rad67	2.19569e-06	0.999985	2.21590e-06	0.999984
rad33	1.85659e-06	0.999987	1.87369e-06	0.999986
rad24	1.71372e-06	0.999988	1.72950e-06	0.999988
rad1	1.44431e-06	0.999990	1.45761e-06	0.999989
PAH1+H	1.28453e-06	0.999991	1.29636e-06	0.999991
rad71	1.22399e-06	0.999992	1.23526e-06	0.999992
rad37	1.21435e-06	0.999994	1.22553e-06	0.999993
rad54	1.06748e-06	0.999995	1.07731e-06	0.999994
rad26	9.30315e-07	0.999996	9.38881e-07	0.999995
PhcycC3H3_A+H	8.89883e-07	0.999996	8.98077e-07	0.999996
rad73	8.56031e-07	0.999997	8.63916e-07	0.999997
rad65	7.70939e-07	0.999998	7.78038e-07	0.999998
rad10	5.23323e-07	0.999999	5.28142e-07	0.999998
rad59	3.34460e-07	0.999999	3.37540e-07	0.999999
rad60syn	3.26599e-07	0.999999	3.29607e-07	0.999999
rad70	3.14942e-07	1.000000	3.17843e-07	0.999999
rad60anti	1.98361e-07	1.000000	2.00188e-07	0.999999
rad15	1.31199e-07	1.000000	1.32407e-07	1.000000
rad34	6.41564e-08	1.000000	6.47473e-08	1.000000
rad62	6.12027e-08	1.000000	6.17664e-08	1.000000
rad12	6.05390e-08	1.000000	6.10964e-08	1.000000
rad55	5.77722e-08	1.000000	5.83042e-08	1.000000
rad72	4.27076e-08	1.000000	4.31009e-08	1.000000
rad58	3.84558e-08	1.000000	3.88100e-08	1.000000
rad47	3.46310e-08	1.000000	3.49500e-08	1.000000
rad64	2.36725e-08	1.000000	2.38905e-08	1.000000
rad43	1.91518e-08	1.000000	1.93282e-08	1.000000
PAH8+H	1.60594e-08	1.000000	1.62073e-08	1.000000
rad14	1.15215e-08	1.000000	1.16276e-08	1.000000

rad53	6.72248e-09	1.00000	6.78439e-09	1.00000
rad61	6.13351e-09	1.00000	6.18999e-09	1.00000
rad56	5.69155e-09	1.00000	5.74397e-09	1.00000
rad42	4.56340e-09	1.00000	4.60543e-09	1.00000
rad68syn	4.33604e-09	1.00000	4.37596e-09	1.00000
rad68anti	2.81710e-09	1.00000	2.84304e-09	1.00000
rad31	2.44429e-09	1.00000	2.46679e-09	1.00000
rad40syn	1.88038e-09	1.00000	1.89769e-09	1.00000
rad41	1.41377e-09	1.00000	1.42679e-09	1.00000
rad40anti	1.19256e-09	1.00000	1.20353e-09	1.00000
rad27	2.79059e-10	1.00000	2.81629e-10	1.00000
rad5	7.53686e-11	1.00000	7.60631e-11	1.00000
rad8	1.17705e-11	1.00000	1.18789e-11	1.00000

100000.000 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.98668e-13 (1.00)	7.78032e-13 (1.00)
Formation of rad11	2.67704e-13 (0.335)	2.57746e-13 (0.331)
Formation of rad6	2.87049e-13 (0.359)	2.76371e-13 (0.355)
H-abstraction	2.43915e-13 (0.305)	2.43915e-13 (0.314)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.543326	0.543326	0.557738	0.557738
Benzene+2-propynyl	0.305402	0.848728	0.313502	0.871240
Indene+H	0.0397258	0.888454	0.0407794	0.912019
C2H2+PhCH2	0.0322525	0.920707	0.0331079	0.945127
Phenyl+Allene	0.0258379	0.946544	0.00000	0.945127
rad11	0.0148363	0.961381	0.0152298	0.960357
PhCHCCH2+H	0.0142040	0.975585	0.0145807	0.974938
PhCH2CCH+H	0.0105263	0.986111	0.0108055	0.985743
PhCCH+CH3	0.00524876	0.991360	0.00538797	0.991131
rad7	0.00153805	0.992898	0.00157884	0.992710
PAH7+H	0.000841332	0.993739	0.000863649	0.993574
rad22	0.000824127	0.994563	0.000845985	0.994420
rad23	0.000805289	0.995369	0.000826653	0.995246
Ph+MeAc	0.000781784	0.996150	0.000802516	0.996049
PAH9+H	0.000599624	0.996750	0.000615528	0.996664
rad28	0.000519081	0.997269	0.000532849	0.997197
rad45	0.000463180	0.997732	0.000475466	0.997673
rad21	0.000325201	0.998058	0.000333827	0.998006
rad38	0.000292565	0.998350	0.000300326	0.998307
rad9	0.000230575	0.998581	0.000236691	0.998543
rad20	0.000229521	0.998810	0.000235608	0.998779
rad39	0.000194701	0.999005	0.000199865	0.998979
rad13	0.000185030	0.999190	0.000189937	0.999169
PhCCCH3+H	0.000139749	0.999330	0.000143455	0.999312
rad50	0.000118154	0.999448	0.000121288	0.999434
rad19anti	0.000108334	0.999556	0.000111208	0.999545
rad46	0.000106344	0.999662	0.000109165	0.999654
rad35	8.58426e-05	0.999748	8.81189e-05	0.999742
rad36	4.44960e-05	0.999793	4.56761e-05	0.999788
rad18	4.03466e-05	0.999833	4.14167e-05	0.999829
rad51	3.85084e-05	0.999872	3.95298e-05	0.999869
rad19syn	1.59468e-05	0.999888	1.63697e-05	0.999885
rad52	1.08093e-05	0.999898	1.10959e-05	0.999896
rad30	1.05832e-05	0.999909	1.08640e-05	0.999907
rad2	1.04084e-05	0.999919	1.06845e-05	0.999918
rad3	9.92657e-06	0.999929	1.01899e-05	0.999928
rad33	8.45965e-06	0.999938	8.68406e-06	0.999937
rad4	7.77346e-06	0.999946	7.97965e-06	0.999945
rad25	7.06476e-06	0.999953	7.25209e-06	0.999952
rad67	5.90756e-06	0.999959	6.06425e-06	0.999958
rad54	5.63530e-06	0.999964	5.78476e-06	0.999964
PAH3+H	5.49184e-06	0.999970	5.63750e-06	0.999969
PhcycC3H3_A+H	4.71545e-06	0.999974	4.84052e-06	0.999974
PAH10+CH3	4.52263e-06	0.999979	4.64259e-06	0.999979
rad24	2.64752e-06	0.999982	2.71774e-06	0.999981
rad1	2.61813e-06	0.999984	2.68757e-06	0.999984
rad37	2.54071e-06	0.999987	2.60810e-06	0.999987
PAH1+H	2.32563e-06	0.999989	2.38732e-06	0.999989
rad26	2.10515e-06	0.999991	2.16098e-06	0.999991
rad71	1.60526e-06	0.999993	1.64784e-06	0.999993
rad73	1.12016e-06	0.999994	1.14987e-06	0.999994
rad10	1.08987e-06	0.999995	1.11878e-06	0.999995
rad65	9.98985e-07	0.999996	1.02548e-06	0.999996
rad70	9.01304e-07	0.999997	9.25207e-07	0.999997
rad60syn	5.60207e-07	0.999997	5.75065e-07	0.999998

rad59	5.45113e-07	0.999998	5.59571e-07	0.999998
rad60anti	3.39424e-07	0.999998	3.48426e-07	0.999999
rad55	3.15929e-07	0.999999	3.24308e-07	0.999999
rad12	2.73164e-07	0.999999	2.80409e-07	0.999999
rad34	1.65033e-07	0.999999	1.69410e-07	0.999999
rad62	1.61206e-07	0.999999	1.65481e-07	1.000000
rad15	1.56981e-07	0.999999	1.61145e-07	1.000000
rad72	5.62511e-08	0.999999	5.77430e-08	1.000000
rad58	5.52892e-08	1.000000	5.67557e-08	1.000000
rad43	4.92142e-08	1.000000	5.05195e-08	1.000000
rad14	4.68058e-08	1.000000	4.80473e-08	1.000000
rad47	4.55785e-08	1.000000	4.67874e-08	1.000000
rad64	3.73885e-08	1.000000	3.83802e-08	1.000000
rad53	3.31657e-08	1.000000	3.40454e-08	1.000000
PAH8+H	2.38614e-08	1.000000	2.44942e-08	1.000000
rad56	2.31105e-08	1.000000	2.37235e-08	1.000000
rad42	1.03593e-08	1.000000	1.06341e-08	1.000000
rad61	9.68270e-09	1.000000	9.93953e-09	1.000000
rad68syn	7.11213e-09	1.000000	7.30077e-09	1.000000
rad31	5.81649e-09	1.000000	5.97077e-09	1.000000
rad68anti	4.63987e-09	1.000000	4.76294e-09	1.000000
rad41	3.66130e-09	1.000000	3.75841e-09	1.000000
rad40syn	2.97329e-09	1.000000	3.05215e-09	1.000000
rad27	2.02998e-09	1.000000	2.08382e-09	1.000000
rad40anti	1.92478e-09	1.000000	1.97584e-09	1.000000
rad8	6.75299e-10	1.000000	6.93212e-10	1.000000
rad5	1.24657e-10	1.000000	1.27963e-10	1.000000

100000.000 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22919e-12 (1.00)	1.15133e-12 (1.00)
Formation of rad11	3.87976e-13 (0.316)	3.51389e-13 (0.305)
Formation of rad6	4.37724e-13 (0.356)	3.96446e-13 (0.344)
H-abstraction	4.03491e-13 (0.328)	4.03491e-13 (0.350)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.429757	0.429757	0.458822	0.458822
Benzene+2-propynyl	0.328257	0.758014	0.350458	0.809280
Phenyl+Allene	0.0633476	0.821362	0.000000	0.809280
Indene+H	0.0475167	0.868878	0.0507303	0.860010
C2H2+PhCH2	0.0443252	0.913204	0.0473230	0.907334
PhCHCCH2+H	0.0263889	0.939592	0.0281736	0.935507
PhCH2CCH+H	0.0234644	0.963057	0.0250513	0.960558
rad11	0.0127991	0.975856	0.0136646	0.974223
PhCCH+CH3	0.0116321	0.987488	0.0124188	0.986642
rad7	0.00223230	0.989720	0.00238327	0.989025
PAH7+H	0.00220762	0.991928	0.00235693	0.991382
Ph+MeAc	0.00172294	0.993651	0.00183947	0.993222
PAH9+H	0.000750055	0.994401	0.000800788	0.994022
rad28	0.000609781	0.995011	0.000651023	0.994673
rad23	0.000589326	0.995600	0.000629184	0.995303
rad45	0.000544860	0.996145	0.000581710	0.995884
rad13	0.000492981	0.996638	0.000526323	0.996411
rad39	0.000457684	0.997096	0.000488638	0.996899
rad22	0.000424667	0.997520	0.000453388	0.997353
rad38	0.000364805	0.997885	0.000389477	0.997742
rad9	0.000346701	0.998232	0.000370149	0.998112
rad21	0.000310316	0.998542	0.000331303	0.998443
PhCCCH3+H	0.000274098	0.998816	0.000292636	0.998736
rad19anti	0.000208406	0.999025	0.000222501	0.998959
rad20	0.000188386	0.999213	0.000201127	0.999160
rad50	0.000146824	0.999360	0.000156754	0.999317
rad46	0.000132337	0.999492	0.000141288	0.999458
rad35	0.000109421	0.999602	0.000116821	0.999575
rad19syn	5.77917e-05	0.999659	6.17003e-05	0.999636
rad36	5.20626e-05	0.999711	5.55837e-05	0.999692
rad51	4.78568e-05	0.999759	5.10934e-05	0.999743
rad18	3.44368e-05	0.999794	3.67658e-05	0.999780
rad33	2.17688e-05	0.999815	2.32410e-05	0.999803
rad54	2.15756e-05	0.999837	2.30347e-05	0.999826
PhcycC3H3_A+H	1.99890e-05	0.999857	2.13410e-05	0.999847
rad30	1.61498e-05	0.999873	1.72420e-05	0.999865
rad2	1.45440e-05	0.999888	1.55276e-05	0.999880
rad52	1.34309e-05	0.999901	1.43392e-05	0.999894
rad3	1.25235e-05	0.999914	1.33705e-05	0.999908
rad67	1.21686e-05	0.999926	1.29916e-05	0.999921
rad4	9.90612e-06	0.999936	1.05761e-05	0.999931

rad25	9.70111e-06	0.999945	1.03572e-05	0.999942
PAH3+H	9.12059e-06	0.999955	9.73742e-06	0.999952
PAH10+CH3	7.92038e-06	0.999963	8.45606e-06	0.999960
rad37	5.48338e-06	0.999968	5.85424e-06	0.999966
PAH1+H	5.42921e-06	0.999973	5.79640e-06	0.999972
rad1	3.74686e-06	0.999977	4.00026e-06	0.999976
rad24	3.53283e-06	0.999981	3.77176e-06	0.999979
rad26	3.16175e-06	0.999984	3.37558e-06	0.999983
rad70	2.57343e-06	0.999986	2.74747e-06	0.999986
rad10	2.33680e-06	0.999989	2.49484e-06	0.999988
rad71	2.00008e-06	0.999991	2.13535e-06	0.999990
rad73	1.39483e-06	0.999992	1.48917e-06	0.999992
rad55	1.29074e-06	0.999993	1.37804e-06	0.999993
rad65	1.24239e-06	0.999995	1.32642e-06	0.999994
rad60syn	9.55379e-07	0.999996	1.02000e-06	0.999995
rad59	9.22800e-07	0.999997	9.85212e-07	0.999996
rad12	7.96371e-07	0.999997	8.50231e-07	0.999997
rad60anti	5.79944e-07	0.999998	6.19167e-07	0.999998
rad34	4.78994e-07	0.999998	5.11390e-07	0.999998
rad62	3.83867e-07	0.999999	4.09828e-07	0.999999
rad15	3.17620e-07	0.999999	3.39102e-07	0.999999
rad53	1.68223e-07	0.999999	1.79600e-07	0.999999
rad14	1.49453e-07	0.999999	1.59561e-07	0.999999
rad56	1.26807e-07	1.000000	1.35383e-07	1.000000
rad43	9.06940e-08	1.000000	9.68279e-08	1.000000
rad58	8.41895e-08	1.000000	8.98836e-08	1.000000
rad64	7.69669e-08	1.000000	8.21723e-08	1.000000
rad72	7.01682e-08	1.000000	7.49143e-08	1.000000
rad47	5.45135e-08	1.000000	5.82003e-08	1.000000
PAH8+H	4.30532e-08	1.000000	4.59650e-08	1.000000
rad42	2.17382e-08	1.000000	2.32084e-08	1.000000
rad68syn	1.64716e-08	1.000000	1.75856e-08	1.000000
rad61	1.50036e-08	1.000000	1.60184e-08	1.000000
rad68anti	1.07977e-08	1.000000	1.15279e-08	1.000000
rad31	1.03772e-08	1.000000	1.10790e-08	1.000000
rad27	9.61385e-09	1.000000	1.02641e-08	1.000000
rad8	8.10605e-09	1.000000	8.65430e-09	1.000000
rad41	6.50610e-09	1.000000	6.94614e-09	1.000000
rad40syn	5.78933e-09	1.000000	6.18087e-09	1.000000
rad40anti	3.59886e-09	1.000000	3.84225e-09	1.000000
rad5	1.83973e-10	1.000000	1.96416e-10	1.000000

100000.000 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.58564e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.39288e-13 (0.277)
Formation of rad6	6.34764e-13 (0.352)	5.17538e-13 (0.326)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.397)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.396569	0.396569
rad6	0.290793	0.639676	0.330539	0.727108
Phenyl+Allene	0.120246	0.759921	0.000000	0.727108
C2H2+PhCH2	0.0543984	0.814320	0.0618336	0.788941
Indene+H	0.0531490	0.867469	0.0604137	0.849355
PhCH2CCH+H	0.0420187	0.909488	0.0477618	0.897117
PhCHCCH2+H	0.0410926	0.950580	0.0467092	0.943826
PhCCH+CH3	0.0189314	0.969512	0.0215190	0.965345
rad11	0.0128305	0.982342	0.0145842	0.979929
PAH7+H	0.00414992	0.986492	0.00471713	0.984647
rad7	0.00329416	0.989786	0.00374441	0.988391
Ph+MeAc	0.00283536	0.992621	0.00322290	0.991614
PAH9+H	0.000853894	0.993475	0.000970607	0.992584
rad13	0.000807535	0.994283	0.000917910	0.993502
rad39	0.000803609	0.995087	0.000913444	0.994416
rad45	0.000586142	0.995673	0.000666255	0.995082
rad28	0.000517728	0.996190	0.000588492	0.995671
rad9	0.000497737	0.996688	0.000565769	0.996236
rad23	0.000457427	0.997146	0.000519948	0.996756
rad38	0.000413504	0.997559	0.000470022	0.997226
PhCCCH3+H	0.000395749	0.997955	0.000449841	0.997676
rad19anti	0.000331460	0.998286	0.000376764	0.998053
rad21	0.000264706	0.998551	0.000300887	0.998354
rad22	0.000243945	0.998795	0.000277288	0.998631
rad50	0.000164618	0.998960	0.000187119	0.998818
rad46	0.000149339	0.999109	0.000169751	0.998988
rad19syn	0.000146221	0.999255	0.000166207	0.999154

rad20	0.000134298	0.999389	0.000152654	0.999307
rad35	0.000127168	0.999517	0.000144549	0.999451
PhcycC3H3_A+H	5.96050e-05	0.999576	6.77521e-05	0.999519
rad36	5.58740e-05	0.999632	6.35111e-05	0.999583
rad54	5.54368e-05	0.999687	6.30139e-05	0.999646
rad51	5.35277e-05	0.999741	6.08440e-05	0.999707
rad33	3.23048e-05	0.999773	3.67202e-05	0.999743
rad18	3.22953e-05	0.999806	3.67094e-05	0.999780
rad30	2.16905e-05	0.999827	2.46551e-05	0.999805
rad67	1.95105e-05	0.999847	2.21772e-05	0.999827
rad2	1.50699e-05	0.999862	1.71297e-05	0.999844
rad52	1.50386e-05	0.999877	1.70941e-05	0.999861
PAH3+H	1.37596e-05	0.999891	1.56403e-05	0.999877
PAH10+CH3	1.30195e-05	0.999904	1.47990e-05	0.999891
PAH1+H	1.23236e-05	0.999916	1.40081e-05	0.999905
rad3	1.21128e-05	0.999928	1.37684e-05	0.999919
rad25	1.12438e-05	0.999939	1.27806e-05	0.999932
rad37	9.90076e-06	0.999949	1.12540e-05	0.999943
rad4	9.61889e-06	0.999959	1.09336e-05	0.999954
rad70	5.91215e-06	0.999965	6.72023e-06	0.999961
rad10	4.41868e-06	0.999969	5.02262e-06	0.999966
rad24	4.13863e-06	0.999973	4.70430e-06	0.999971
rad1	3.90979e-06	0.999977	4.44419e-06	0.999975
rad55	3.49808e-06	0.999981	3.97620e-06	0.999979
rad26	3.45256e-06	0.999984	3.92446e-06	0.999983
rad71	2.23220e-06	0.999986	2.53730e-06	0.999986
rad73	1.55700e-06	0.999988	1.76982e-06	0.999987
rad12	1.50798e-06	0.999990	1.71410e-06	0.999989
rad60syn	1.42490e-06	0.999991	1.61965e-06	0.999991
rad59	1.40159e-06	0.999992	1.59317e-06	0.999992
rad65	1.39191e-06	0.999994	1.58215e-06	0.999994
rad34	1.17404e-06	0.999995	1.33451e-06	0.999995
rad60anti	8.68082e-07	0.999996	9.86737e-07	0.999996
rad15	8.52573e-07	0.999997	9.69105e-07	0.999997
rad62	7.74139e-07	0.999997	8.79954e-07	0.999998
rad53	5.46803e-07	0.999998	6.21540e-07	0.999999
rad56	4.43025e-07	0.999998	5.03579e-07	0.999999
rad14	2.77149e-07	0.999999	3.15029e-07	0.999999
rad64	1.72598e-07	0.999999	1.96189e-07	1.000000
rad43	1.27100e-07	0.999999	1.44472e-07	1.000000
rad58	1.20556e-07	0.999999	1.37033e-07	1.000000
PAH8+H	1.02862e-07	0.999999	1.16921e-07	1.000000
rad72	7.82994e-08	0.999999	8.90013e-08	1.000000
rad47	5.78027e-08	0.999999	6.57034e-08	1.000000
rad68syn	4.43175e-08	0.999999	5.03749e-08	1.000000
rad42	4.34936e-08	0.999999	4.94383e-08	1.000000
rad8	3.20091e-08	0.999999	3.63842e-08	1.000000
rad68anti	2.90620e-08	0.999999	3.30342e-08	1.000000
rad61	2.15369e-08	0.999999	2.44806e-08	1.000000
rad27	2.06561e-08	1.000000	2.34794e-08	1.000000
rad40syn	1.40600e-08	1.000000	1.59818e-08	1.000000
rad31	1.36335e-08	1.000000	1.54969e-08	1.000000
rad41	8.64286e-09	1.000000	9.82416e-09	1.000000
rad40anti	8.25792e-09	1.000000	9.38662e-09	1.000000
rad5	2.44461e-10	1.000000	2.77875e-10	1.000000

100000.000 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.54148e-12 (1.00)	2.09340e-12 (1.00)
Formation of rad11	7.22991e-13 (0.284)	5.21425e-13 (0.249)
Formation of rad6	8.84215e-13 (0.348)	6.37700e-13 (0.305)
H-abstraction	9.34273e-13 (0.368)	9.34273e-13 (0.446)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.367610	0.367610	0.446295	0.446295
rad6	0.178244	0.545854	0.216396	0.662691
Phenyl+Allene	0.176307	0.722161	0.000000	0.662691
PhCH2CCH+H	0.0596733	0.781835	0.0724462	0.735137
C2H2+PhCH2	0.0572173	0.839052	0.0694645	0.804602
Indene+H	0.0525348	0.891587	0.0637796	0.868382
PhCHCCH2+H	0.0522816	0.943868	0.0634723	0.931854
PhCCH+CH3	0.0234666	0.967335	0.0284895	0.960343
rad11	0.0115386	0.978873	0.0140084	0.974352
PAH7+H	0.00577303	0.984647	0.00700869	0.981360
rad7	0.00410554	0.988752	0.00498431	0.986345
Ph+MeAc	0.00359105	0.992343	0.00435970	0.990704
rad39	0.00105694	0.993400	0.00128317	0.991988

PAH9+H	0.000848048	0.994248	0.00102956	0.993017
rad13	0.000819040	0.995067	0.000994355	0.994012
rad9	0.000591353	0.995658	0.000717928	0.994729
rad45	0.000546735	0.996205	0.000663759	0.995393
PhCCCH3+H	0.000436527	0.996642	0.000529963	0.995923
rad19anti	0.000431698	0.997073	0.000524100	0.996447
rad38	0.000408541	0.997482	0.000495987	0.996943
rad23	0.000362011	0.997844	0.000439497	0.997383
rad28	0.000358593	0.998203	0.000435348	0.997818
rad19syn	0.000271658	0.998474	0.000329804	0.998148
rad21	0.000209799	0.998684	0.000254705	0.998403
rad22	0.000162465	0.998847	0.000197240	0.998600
rad50	0.000160074	0.999007	0.000194337	0.998794
rad46	0.000146673	0.999153	0.000178068	0.998972
PhcycC3H3_A+H	0.000129075	0.999282	0.000156702	0.999129
rad35	0.000129017	0.999411	0.000156633	0.999286
rad54	0.000101869	0.999513	0.000123673	0.999409
rad20	9.10566e-05	0.999604	0.000110547	0.999520
rad36	5.21055e-05	0.999656	6.32586e-05	0.999583
rad51	5.18160e-05	0.999708	6.29070e-05	0.999646
rad33	3.32969e-05	0.999741	4.04240e-05	0.999686
rad18	2.78811e-05	0.999769	3.38489e-05	0.999720
rad67	2.51037e-05	0.999794	3.04770e-05	0.999751
rad30	2.47082e-05	0.999819	2.99969e-05	0.999781
PAH1+H	2.23020e-05	0.999841	2.70756e-05	0.999808
PAH10+CH3	1.86400e-05	0.999860	2.26298e-05	0.999830
PAH3+H	1.78769e-05	0.999878	2.17034e-05	0.999852
rad52	1.45890e-05	0.999893	1.77118e-05	0.999870
rad37	1.40210e-05	0.999907	1.70221e-05	0.999887
rad2	1.16368e-05	0.999918	1.41276e-05	0.999901
rad25	1.05557e-05	0.999929	1.28151e-05	0.999914
rad70	1.02689e-05	0.999939	1.24669e-05	0.999926
rad3	9.07220e-06	0.999948	1.10141e-05	0.999937
rad4	7.21740e-06	0.999955	8.76227e-06	0.999946
rad55	6.71472e-06	0.999962	8.15198e-06	0.999954
rad10	6.19203e-06	0.999968	7.51738e-06	0.999962
rad24	4.04136e-06	0.999972	4.90640e-06	0.999967
rad26	3.23846e-06	0.999976	3.93163e-06	0.999971
rad1	3.03010e-06	0.999979	3.67868e-06	0.999974
rad15	2.32451e-06	0.999981	2.82206e-06	0.999977
rad34	2.17031e-06	0.999983	2.63484e-06	0.999980
rad71	2.14701e-06	0.999985	2.60657e-06	0.999982
rad12	2.05183e-06	0.999987	2.49101e-06	0.999985
rad59	1.81583e-06	0.999989	2.20450e-06	0.999987
rad60syn	1.78740e-06	0.999991	2.16999e-06	0.999989
rad73	1.49887e-06	0.999992	1.81969e-06	0.999991
rad65	1.35126e-06	0.999994	1.64049e-06	0.999993
rad62	1.24041e-06	0.999995	1.50591e-06	0.999994
rad53	1.21260e-06	0.999996	1.47215e-06	0.999996
rad60anti	1.09369e-06	0.999997	1.32778e-06	0.999997
rad56	1.03699e-06	0.999998	1.25895e-06	0.999998
rad64	3.24780e-07	0.999999	3.94298e-07	0.999999
rad14	3.12910e-07	0.999999	3.79888e-07	0.999999
PAH8+H	2.28271e-07	0.999999	2.77132e-07	0.999999
rad58	1.54525e-07	0.999999	1.87601e-07	0.999999
rad43	1.45060e-07	0.999999	1.76109e-07	1.000000
rad68syn	9.60999e-08	1.000000	1.16670e-07	1.000000
rad72	7.52165e-08	1.000000	9.13165e-08	1.000000
rad42	7.38252e-08	1.000000	8.96271e-08	1.000000
rad68anti	6.29278e-08	1.000000	7.63969e-08	1.000000
rad8	6.28601e-08	1.000000	7.63149e-08	1.000000
rad47	5.29056e-08	1.000000	6.42298e-08	1.000000
rad40syn	3.04711e-08	1.000000	3.69933e-08	1.000000
rad61	2.81599e-08	1.000000	3.41874e-08	1.000000
rad27	2.42785e-08	1.000000	2.94751e-08	1.000000
rad40anti	1.75353e-08	1.000000	2.12886e-08	1.000000
rad31	1.37253e-08	1.000000	1.66631e-08	1.000000
rad41	9.44993e-09	1.000000	1.14726e-08	1.000000
rad5	3.13622e-10	1.000000	3.80751e-10	1.000000

100000.000 Pa, 1400.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.47024e-12 (1.00)	2.72124e-12 (1.00)
Formation of rad11	9.43269e-13 (0.272)	6.12385e-13 (0.225)
Formation of rad6	1.19194e-12 (0.343)	7.73822e-13 (0.284)
H-abstraction	1.33503e-12 (0.385)	1.33503e-12 (0.491)
species	PYtrue Cumul	PYeffective Cumul

Benzene+2-propynyl	0.384709	0.384709	0.490597	0.490597
Phenyl+Allene	0.215835	0.600544	0.00000	0.490597
rad6	0.115153	0.715697	0.146848	0.637445
PhCH2CCH+H	0.0712378	0.786935	0.0908449	0.728290
PhCHCCH2+H	0.0573213	0.844256	0.0730983	0.801388
C2H2+PhCH2	0.0537923	0.898048	0.0685983	0.869987
Indene+H	0.0472003	0.945249	0.0601916	0.930178
PhCCH+CH3	0.0243971	0.969646	0.0311122	0.961290
rad11	0.00864281	0.978288	0.0110217	0.972312
PAH7+H	0.00659801	0.984886	0.00841407	0.980726
rad7	0.00396478	0.988851	0.00505605	0.985782
Ph+MeAc	0.00383870	0.992690	0.00489526	0.990677
rad39	0.00114557	0.993835	0.00146087	0.992138
PAH9+H	0.000763367	0.994599	0.000973480	0.993112
rad13	0.000642653	0.995241	0.000819538	0.993931
rad9	0.000599244	0.995841	0.000764181	0.994695
rad19anti	0.000485377	0.996326	0.000618971	0.995314
rad45	0.000457310	0.996783	0.000583180	0.995898
PhCCCH3+H	0.000405710	0.997189	0.000517380	0.996415
rad19syn	0.000402598	0.997592	0.000513412	0.996928
rad38	0.000365535	0.997957	0.000466145	0.997395
rad23	0.000307840	0.998265	0.000392570	0.997787
rad28	0.000244756	0.998510	0.000312122	0.998099
PhcycC3H3_A+H	0.000217092	0.998727	0.000276844	0.998376
rad21	0.000155635	0.998883	0.000198472	0.998575
rad54	0.000151205	0.999034	0.000192822	0.998767
rad50	0.000140545	0.999174	0.000179228	0.998947
rad46	0.000130360	0.999305	0.000166241	0.999113
rad22	0.000126439	0.999431	0.000161240	0.999274
rad35	0.000118628	0.999550	0.000151279	0.999425
rad20	6.00571e-05	0.999610	7.65872e-05	0.999502
rad51	4.52094e-05	0.999655	5.76527e-05	0.999560
rad36	4.36196e-05	0.999699	5.56258e-05	0.999615
PAH1+H	3.33929e-05	0.999732	4.25840e-05	0.999658
rad67	2.78124e-05	0.999760	3.54674e-05	0.999693
rad33	2.77117e-05	0.999788	3.53391e-05	0.999729
rad30	2.49089e-05	0.999812	3.17648e-05	0.999760
PAH10+CH3	2.36425e-05	0.999836	3.01499e-05	0.999791
PAH3+H	2.05121e-05	0.999857	2.61578e-05	0.999817
rad18	2.02447e-05	0.999877	2.58170e-05	0.999843
rad37	1.65462e-05	0.999893	2.11003e-05	0.999864
rad70	1.42026e-05	0.999908	1.81118e-05	0.999882
rad52	1.27684e-05	0.999920	1.62828e-05	0.999898
rad55	1.03680e-05	0.999931	1.32217e-05	0.999911
rad25	8.83595e-06	0.999940	1.12680e-05	0.999922
rad2	7.35796e-06	0.999947	9.38321e-06	0.999932
rad10	6.17106e-06	0.999953	7.86962e-06	0.999940
rad3	5.76936e-06	0.999959	7.35731e-06	0.999947
rad15	5.26043e-06	0.999964	6.70833e-06	0.999954
rad4	4.59282e-06	0.999969	5.85696e-06	0.999960
rad24	3.45936e-06	0.999972	4.41151e-06	0.999964
rad34	3.13963e-06	0.999975	4.00378e-06	0.999968
rad26	3.05802e-06	0.999978	3.89971e-06	0.999972
rad12	2.26591e-06	0.999981	2.88958e-06	0.999975
rad53	2.14622e-06	0.999983	2.73694e-06	0.999978
rad59	2.06723e-06	0.999985	2.63622e-06	0.999980
rad60syn	1.96280e-06	0.999987	2.50304e-06	0.999983
rad56	1.94194e-06	0.999989	2.47644e-06	0.999985
rad1	1.92178e-06	0.999991	2.45073e-06	0.999988
rad71	1.85340e-06	0.999993	2.36353e-06	0.999990
rad62	1.67324e-06	0.999994	2.13378e-06	0.999992
rad73	1.29594e-06	0.999996	1.65263e-06	0.999994
rad60anti	1.20622e-06	0.999997	1.53823e-06	0.999995
rad65	1.18443e-06	0.999998	1.51044e-06	0.999997
rad64	5.12392e-07	0.999998	6.53422e-07	0.999998
PAH8+H	3.81336e-07	0.999999	4.86295e-07	0.999998
rad14	2.73252e-07	0.999999	3.48462e-07	0.999998
rad58	1.79614e-07	0.999999	2.29051e-07	0.999999
rad68syn	1.55606e-07	0.999999	1.98435e-07	0.999999
rad43	1.49108e-07	1.000000	1.90148e-07	0.999999
rad42	1.07659e-07	1.000000	1.37292e-07	0.999999
rad68anti	1.01785e-07	1.000000	1.29800e-07	0.999999
rad8	8.32027e-08	1.000000	1.06104e-07	0.999999
rad72	6.47741e-08	1.000000	8.26028e-08	0.999999
rad40syn	5.00917e-08	1.000000	6.38791e-08	0.999999
rad47	4.37040e-08	1.000000	5.57333e-08	1.000000
rad61	3.49522e-08	1.000000	4.45724e-08	1.000000
rad40anti	2.87017e-08	1.000000	3.66016e-08	1.000000
rad27	2.07023e-08	1.000000	2.64005e-08	1.000000

rad31	1.16916e-08	1.00000	1.49097e-08	1.000000
rad41	9.61269e-09	1.00000	1.22585e-08	1.000000
rad5	4.26413e-10	1.00000	5.43778e-10	1.000000

100000.000 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.61271e-12 (1.00)	3.50447e-12 (1.00)
Formation of rad11	1.20217e-12 (0.261)	7.20463e-13 (0.206)
Formation of rad6	1.56360e-12 (0.339)	9.37067e-13 (0.267)
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.527)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.527024	0.527024
Phenyl+Allene	0.240258	0.640660	0.000000	0.527024
rad6	0.0854607	0.726121	0.112486	0.639511
PhCH2CCH+H	0.0773295	0.803451	0.101783	0.741294
PhCHCCH2+H	0.0581223	0.861573	0.0765024	0.817796
C2H2+PhCH2	0.0479524	0.909525	0.0631167	0.880913
Indene+H	0.0405725	0.950098	0.0534032	0.934316
PhCCH+CH3	0.0233308	0.973429	0.0307088	0.965025
PAH7+H	0.00683493	0.980264	0.00899633	0.974022
rad11	0.00597404	0.986238	0.00786327	0.981885
Ph+MeAc	0.00378681	0.990024	0.00498436	0.986869
rad7	0.00317049	0.993195	0.00417311	0.991042
rad39	0.00112546	0.994320	0.00148137	0.992524
PAH9+H	0.000659917	0.994980	0.000868611	0.993392
rad9	0.000554769	0.995535	0.000730208	0.994122
rad19syn	0.000516253	0.996051	0.000679510	0.994802
rad19anti	0.000504970	0.996556	0.000664659	0.995467
rad13	0.000451835	0.997008	0.000594720	0.996061
rad45	0.000361830	0.997370	0.000476254	0.996538
PhCCCH3+H	0.000349483	0.997719	0.000460002	0.996998
rad38	0.000313707	0.998033	0.000412912	0.997411
PhcycC3H3_A+H	0.000306920	0.998340	0.000403979	0.997814
rad23	0.000297559	0.998638	0.000391659	0.998206
rad54	0.000200705	0.998838	0.000264175	0.998470
rad28	0.000185625	0.999024	0.000244327	0.998715
rad50	0.000118193	0.999142	0.000155569	0.998870
rad22	0.000112632	0.999255	0.000148250	0.999018
rad21	0.000111625	0.999366	0.000146925	0.999165
rad46	0.000111115	0.999478	0.000146254	0.999312
rad35	0.000104689	0.999582	0.000137796	0.999449
PAH1+H	4.52151e-05	0.999627	5.95136e-05	0.999509
rad20	3.93660e-05	0.999667	5.18150e-05	0.999561
rad51	3.77172e-05	0.999705	4.96450e-05	0.999610
rad36	3.45591e-05	0.999739	4.54879e-05	0.999656
rad67	2.86080e-05	0.999768	3.76549e-05	0.999694
PAH10+CH3	2.79447e-05	0.999796	3.67819e-05	0.999730
rad30	2.35926e-05	0.999819	3.10535e-05	0.999761
PAH3+H	2.18520e-05	0.999841	2.87624e-05	0.999790
rad33	2.08355e-05	0.999862	2.74245e-05	0.999818
rad37	1.76412e-05	0.999880	2.32200e-05	0.999841
rad70	1.73255e-05	0.999897	2.28044e-05	0.999864
rad55	1.42878e-05	0.999911	1.88060e-05	0.999882
rad18	1.35480e-05	0.999925	1.78323e-05	0.999900
rad52	1.06958e-05	0.999935	1.40782e-05	0.999914
rad15	8.92633e-06	0.999944	1.17492e-05	0.999926
rad25	6.99317e-06	0.999951	9.20468e-06	0.999935
rad10	4.95503e-06	0.999956	6.52201e-06	0.999942
rad2	4.24533e-06	0.999961	5.58783e-06	0.999947
rad34	3.96501e-06	0.999964	5.21891e-06	0.999953
rad3	3.44590e-06	0.999968	4.53562e-06	0.999957
rad53	3.39281e-06	0.999971	4.46573e-06	0.999962
rad56	3.26696e-06	0.999975	4.30009e-06	0.999966
rad26	3.06872e-06	0.999978	4.03917e-06	0.999970
rad24	2.78315e-06	0.999980	3.66328e-06	0.999974
rad4	2.74211e-06	0.999983	3.60926e-06	0.999977
rad12	2.24614e-06	0.999985	2.95645e-06	0.999980
rad59	2.18242e-06	0.999988	2.87258e-06	0.999983
rad62	2.07833e-06	0.999990	2.73557e-06	0.999986
rad60syn	2.00279e-06	0.999992	2.63614e-06	0.999988
rad71	1.52111e-06	0.999993	2.00215e-06	0.999990
rad60anti	1.23564e-06	0.999994	1.62640e-06	0.999992
rad1	1.11162e-06	0.999996	1.46316e-06	0.999994
rad73	1.06653e-06	0.999997	1.40380e-06	0.999995
rad65	9.95614e-07	0.999998	1.31046e-06	0.999996
rad64	7.34939e-07	0.999998	9.67354e-07	0.999997

PAH8+H	5.34758e-07	0.999999	7.03868e-07	0.999998
rad14	2.14577e-07	0.999999	2.82435e-07	0.999998
rad68syn	2.13468e-07	0.999999	2.80974e-07	0.999998
rad58	1.95640e-07	1.000000	2.57508e-07	0.999999
rad43	1.49940e-07	1.000000	1.97357e-07	0.999999
rad42	1.46458e-07	1.000000	1.92774e-07	0.999999
rad68anti	1.39529e-07	1.000000	1.83654e-07	0.999999
rad8	9.05548e-08	1.000000	1.19192e-07	0.999999
rad40syn	6.96930e-08	1.000000	9.17322e-08	0.999999
rad72	5.29235e-08	1.000000	6.96599e-08	1.000000
rad61	4.31081e-08	1.000000	5.67405e-08	1.000000
rad40anti	3.99196e-08	1.000000	5.25438e-08	1.000000
rad47	3.46029e-08	1.000000	4.55456e-08	1.000000
rad27	1.52424e-08	1.000000	2.00627e-08	1.000000
rad41	9.96639e-09	1.000000	1.31181e-08	1.000000
rad31	9.27530e-09	1.000000	1.22085e-08	1.000000
rad5	6.44088e-10	1.000000	8.47771e-10	1.000000

100000.000 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.16559e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.00670e-12 (0.163)
Formation of rad6	2.80256e-12 (0.325)	1.38291e-12 (0.224)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.612)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.612427	0.612427
Phenyl+Allene	0.284626	0.722740	0.000000	0.612427
PhCH2CCH+H	0.0853869	0.808127	0.119360	0.731788
PhCHCCH2+H	0.0548852	0.863013	0.0767223	0.808510
rad6	0.0462415	0.909254	0.0646398	0.873150
C2H2+PhCH2	0.0315744	0.940828	0.0441368	0.917287
PhCCH+CH3	0.0195273	0.960356	0.0272966	0.944583
Indene+H	0.0186961	0.979052	0.0261346	0.970718
PAH7+H	0.00644190	0.985494	0.00900498	0.979723
Ph+MeAc	0.00399919	0.989493	0.00559035	0.985313
PhcycC3H3_A+H	0.00184673	0.991340	0.00258149	0.987895
rad39	0.00130834	0.992648	0.00182889	0.989723
rad19syn	0.00127111	0.993919	0.00177685	0.991500
rad11	0.000734699	0.994654	0.00102701	0.992527
PAH9+H	0.000582242	0.995236	0.000813903	0.993341
rad50	0.000544962	0.995781	0.000761786	0.994103
rad7	0.000505741	0.996287	0.000706960	0.994810
rad38	0.000442279	0.996729	0.000618248	0.995428
rad54	0.000424007	0.997153	0.000592707	0.996021
rad51	0.000423306	0.997576	0.000591727	0.996613
rad71	0.000357020	0.997933	0.000499070	0.997112
rad19anti	0.000351492	0.998285	0.000491341	0.997603
PhCCCH3+H	0.000254208	0.998539	0.000355349	0.997958
rad46	0.000186198	0.998725	0.000260281	0.998219
rad23	0.000135886	0.998861	0.000189951	0.998409
PAH1+H	0.000135831	0.998997	0.000189874	0.998599
rad73	0.000112098	0.999109	0.000156699	0.998755
rad28	0.000107180	0.999216	0.000149823	0.998905
rad35	8.85902e-05	0.999305	0.000123837	0.999029
rad52	7.36025e-05	0.999378	0.000102887	0.999132
rad72	6.81994e-05	0.999447	9.53340e-05	0.999227
PAH10+CH3	6.34161e-05	0.999510	8.86476e-05	0.999316
rad22	5.25577e-05	0.999563	7.34691e-05	0.999389
PAH3+H	4.72237e-05	0.999610	6.60125e-05	0.999455
rad13	4.21193e-05	0.999652	5.88773e-05	0.999514
rad67	4.09034e-05	0.999693	5.71778e-05	0.999571
rad55	4.02598e-05	0.999733	5.62779e-05	0.999628
rad9	3.82444e-05	0.999771	5.34606e-05	0.999681
rad70	3.35212e-05	0.999805	4.68583e-05	0.999728
rad56	3.05967e-05	0.999835	4.27702e-05	0.999771
rad53	2.23873e-05	0.999858	3.12946e-05	0.999802
rad45	2.21009e-05	0.999880	3.08942e-05	0.999833
rad30	1.91837e-05	0.999899	2.68163e-05	0.999860
rad37	1.64276e-05	0.999916	2.29637e-05	0.999883
PAH8+H	1.44981e-05	0.999930	2.02664e-05	0.999903
rad34	1.04745e-05	0.999941	1.46420e-05	0.999918
rad21	9.66117e-06	0.999950	1.35051e-05	0.999931
rad65	7.01210e-06	0.999957	9.80199e-06	0.999941
rad62	6.49141e-06	0.999964	9.07416e-06	0.999950
rad36	3.82227e-06	0.999967	5.34304e-06	0.999955
rad59	3.76446e-06	0.999971	5.26223e-06	0.999961

rad64	3.36636e-06	0.999975	4.70575e-06	0.999965
rad20	2.89872e-06	0.999978	4.05203e-06	0.999969
rad60syn	2.45420e-06	0.999980	3.43066e-06	0.999973
rad15	2.25354e-06	0.999982	3.15016e-06	0.999976
rad26	1.99936e-06	0.999984	2.79484e-06	0.999979
rad33	1.99778e-06	0.999986	2.79265e-06	0.999981
rad68syn	1.85909e-06	0.999988	2.59877e-06	0.999984
rad60anti	1.72829e-06	0.999990	2.41593e-06	0.999986
rad18	1.29224e-06	0.999991	1.80638e-06	0.999988
rad68anti	1.18630e-06	0.999992	1.65830e-06	0.999990
rad40syn	1.12235e-06	0.999993	1.56890e-06	0.999991
rad42	1.05023e-06	0.999994	1.46808e-06	0.999993
rad58	8.87801e-07	0.999995	1.24103e-06	0.999994
rad40anti	8.47958e-07	0.999996	1.18534e-06	0.999995
rad25	7.61950e-07	0.999997	1.06510e-06	0.999996
rad10	7.10734e-07	0.999998	9.93512e-07	0.999997
rad61	3.68124e-07	0.999998	5.14592e-07	0.999998
rad43	2.83358e-07	0.999998	3.96099e-07	0.999998
rad24	2.51585e-07	0.999999	3.51683e-07	0.999999
rad12	2.25072e-07	0.999999	3.14622e-07	0.999999
rad2	1.71603e-07	0.999999	2.39880e-07	0.999999
rad47	1.53911e-07	0.999999	2.15147e-07	0.999999
rad3	1.34070e-07	0.999999	1.87412e-07	1.000000
rad4	8.44744e-08	0.999999	1.18084e-07	1.000000
rad1	4.85375e-08	0.999999	6.78493e-08	1.000000
rad41	4.67215e-08	0.999999	6.53107e-08	1.000000
rad14	2.69864e-08	0.999999	3.77235e-08	1.000000
rad8	2.44915e-08	1.000000	3.42359e-08	1.000000
rad5	1.99873e-09	1.000000	2.79397e-09	1.000000
rad27	1.41306e-09	1.000000	1.97527e-09	1.000000

10000.000 Pa, 2000.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.44111e-11	(1.00)	1.00515e-11	(1.00)
Formation of rad11	3.16882e-12	(0.220)	1.37516e-12	(0.137)
Formation of rad6	4.53302e-12	(0.315)	1.96717e-12	(0.196)
H-abstraction	6.70922e-12	(0.466)	6.70922e-12	(0.667)
species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.465560	0.465560	0.667481	0.667481
Phenyl+Allene	0.302512	0.768072	0.000000	0.667481
PhCH2CCH+H	0.0887972	0.856869	0.127310	0.794791
PhCHCCH2+H	0.0521766	0.909046	0.0748065	0.869598
C2H2+PhCH2	0.0250622	0.934108	0.0359320	0.905530
PhCCH+CH3	0.0172826	0.951390	0.0247784	0.930308
rad6	0.0155885	0.966979	0.0223496	0.952658
Indene+H	0.0141051	0.981084	0.0202227	0.972880
PAH7+H	0.00602420	0.987108	0.00863698	0.981517
Ph+MeAc	0.00382814	0.990936	0.00548846	0.987006
PhcycC3H3_A+H	0.00228293	0.993219	0.00327307	0.990279
rad19syn	0.00144055	0.994660	0.00206534	0.992344
rad39	0.00102217	0.995682	0.00146550	0.993810
rad54	0.000536070	0.996218	0.000768568	0.994578
PAH9+H	0.000457421	0.996676	0.000655814	0.995234
rad19anti	0.000371927	0.997048	0.000533237	0.995767
rad50	0.000339104	0.997387	0.000486179	0.996254
rad38	0.000310342	0.997697	0.000444944	0.996698
rad51	0.000256682	0.997954	0.000368009	0.997066
rad11	0.000243866	0.998198	0.000349634	0.997416
rad71	0.000209348	0.998407	0.000300145	0.997716
PhCCCH3+H	0.000203917	0.998611	0.000292358	0.998009
rad7	0.000198190	0.998809	0.000284147	0.998293
PAH1+H	0.000182049	0.998991	0.000261007	0.998554
rad46	0.000125546	0.999117	0.000179997	0.998734
rad23	8.96459e-05	0.999206	0.000128526	0.998862
rad35	7.32471e-05	0.999279	0.000105015	0.998967
rad73	6.59932e-05	0.999345	9.46160e-05	0.999062
rad56	6.00358e-05	0.999405	8.60742e-05	0.999148
PAH10+CH3	5.99844e-05	0.999465	8.60011e-05	0.999234
rad55	5.40965e-05	0.999520	7.75591e-05	0.999312
rad28	5.09205e-05	0.999570	7.30055e-05	0.999385
rad52	4.53153e-05	0.999616	6.49692e-05	0.999450
PAH3+H	4.43724e-05	0.999660	6.36175e-05	0.999513
rad72	3.98053e-05	0.999700	5.70696e-05	0.999570
rad53	3.92169e-05	0.999739	5.62260e-05	0.999626
rad70	3.84832e-05	0.999778	5.51739e-05	0.999682
rad67	3.83799e-05	0.999816	5.50259e-05	0.999737

rad9	2.56671e-05	0.999842	3.67992e-05	0.999773
rad13	2.03382e-05	0.999862	2.91592e-05	0.999803
rad30	1.68889e-05	0.999879	2.42140e-05	0.999827
rad22	1.61260e-05	0.999895	2.31201e-05	0.999850
rad37	1.48782e-05	0.999910	2.13311e-05	0.999871
PAH8+H	1.34725e-05	0.999923	1.93158e-05	0.999891
rad45	1.25663e-05	0.999936	1.80166e-05	0.999909
rad62	1.24161e-05	0.999948	1.78011e-05	0.999926
rad34	1.19482e-05	0.999960	1.71303e-05	0.999944
rad65	4.84342e-06	0.999965	6.94409e-06	0.999950
rad21	4.66354e-06	0.999970	6.68619e-06	0.999957
rad64	4.46438e-06	0.999974	6.40066e-06	0.999964
rad59	3.59855e-06	0.999978	5.15930e-06	0.999969
rad42	2.55279e-06	0.999980	3.65997e-06	0.999972
rad60syn	2.33945e-06	0.999983	3.35412e-06	0.999976
rad36	2.19796e-06	0.999985	3.15126e-06	0.999979
rad68syn	1.87659e-06	0.999987	2.69049e-06	0.999982
rad60anti	1.65090e-06	0.999989	2.36691e-06	0.999984
rad15	1.48186e-06	0.999990	2.12456e-06	0.999986
rad20	1.20889e-06	0.999991	1.73320e-06	0.999988
rad68anti	1.19915e-06	0.999992	1.71924e-06	0.999990
rad33	1.15490e-06	0.999994	1.65580e-06	0.999991
rad40syn	1.09365e-06	0.999995	1.56798e-06	0.999993
rad26	8.97837e-07	0.999996	1.28724e-06	0.999994
rad40anti	8.19959e-07	0.999996	1.17559e-06	0.999995
rad58	7.71640e-07	0.999997	1.10631e-06	0.999996
rad18	4.21254e-07	0.999998	6.03961e-07	0.999997
rad25	3.99517e-07	0.999998	5.72794e-07	0.999998
rad43	3.77324e-07	0.999998	5.40975e-07	0.999998
rad61	3.37004e-07	0.999999	4.83167e-07	0.999999
rad10	2.83609e-07	0.999999	4.06614e-07	0.999999
rad12	1.93092e-07	0.999999	2.76839e-07	0.999999
rad24	1.57057e-07	0.999999	2.25176e-07	0.999999
rad47	8.41107e-08	0.999999	1.20591e-07	1.000000
rad41	7.51524e-08	0.999999	1.07747e-07	1.000000
rad2	6.28923e-08	1.000000	9.01695e-08	1.000000
rad3	6.08593e-08	1.000000	8.72553e-08	1.000000
rad4	3.78944e-08	1.000000	5.43299e-08	1.000000
rad8	2.15552e-08	1.000000	3.09041e-08	1.000000
rad1	1.77204e-08	1.000000	2.54059e-08	1.000000
rad14	1.58923e-08	1.000000	2.27850e-08	1.000000
rad5	2.22538e-09	1.000000	3.19056e-09	1.000000
rad27	7.62255e-10	1.000000	1.09286e-09	1.000000

100000.000 Pa, 2250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.23655e-11 (1.00)	1.56544e-11 (1.00)
Formation of rad11	4.62280e-12 (0.207)	1.91282e-12 (0.122)
Formation of rad6	6.82518e-12 (0.305)	2.82412e-12 (0.180)
H-abstraction	1.09175e-11 (0.488)	1.09175e-11 (0.697)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.697406	0.697406
Phenyl+Allene	0.300063	0.788203	0.000000	0.697406
PhCH2CCH+H	0.0919853	0.880188	0.131419	0.828825
PhCHCCH2+H	0.0499583	0.930147	0.0713756	0.900201
C2H2+PhCH2	0.0207229	0.950870	0.0296068	0.929808
PhCCH+CH3	0.0156952	0.966565	0.0224237	0.952231
Indene+H	0.0108186	0.977383	0.0154566	0.967688
PAH7+H	0.00571154	0.983095	0.00816009	0.975848
rad6	0.00563768	0.988733	0.00805457	0.983903
Ph+MeAc	0.00358955	0.992322	0.00512840	0.989031
PhcycC3H3_A+H	0.00205198	0.994374	0.00293167	0.991963
rad19syn	0.00137838	0.995753	0.00196929	0.993932
rad39	0.000853782	0.996606	0.00121980	0.995152
rad54	0.000555844	0.997162	0.000794134	0.995946
PAH9+H	0.000380534	0.997543	0.000543668	0.996489
rad19anti	0.000377169	0.997920	0.000538860	0.997028
rad38	0.000236815	0.998157	0.000338337	0.997367
rad50	0.000223160	0.998380	0.000318828	0.997686
PAH1+H	0.000177992	0.998558	0.000254297	0.997940
PhCCCH3+H	0.000176264	0.998734	0.000251829	0.998192
rad51	0.000161839	0.998896	0.000231219	0.998423
rad71	0.000124563	0.999021	0.000177963	0.998601
rad7	0.000102056	0.999123	0.000145807	0.998747
rad11	0.000100528	0.999223	0.000143624	0.998890
rad46	9.19648e-05	0.999315	0.000131390	0.999022

rad35	6.41662e-05	0.999379	9.16739e-05	0.999113
PAH10+CH3	5.68743e-05	0.999436	8.12562e-05	0.999195
rad56	5.60297e-05	0.999492	8.00498e-05	0.999275
rad55	5.57057e-05	0.999548	7.95865e-05	0.999354
rad70	4.44394e-05	0.999592	6.34906e-05	0.999418
PAH3+H	4.42841e-05	0.999637	6.32688e-05	0.999481
rad73	3.94795e-05	0.999676	5.64045e-05	0.999537
rad67	3.85277e-05	0.999715	5.50446e-05	0.999592
rad53	3.77784e-05	0.999752	5.39740e-05	0.999646
rad23	3.68049e-05	0.999789	5.25833e-05	0.999699
rad52	2.93226e-05	0.999819	4.18933e-05	0.999741
rad72	2.35753e-05	0.999842	3.36821e-05	0.999775
rad28	1.93353e-05	0.999861	2.76244e-05	0.999802
rad9	1.55508e-05	0.999877	2.22174e-05	0.999824
rad30	1.53502e-05	0.999892	2.19309e-05	0.999846
rad37	1.43331e-05	0.999907	2.04777e-05	0.999867
rad34	1.39245e-05	0.999921	1.98939e-05	0.999887
rad62	1.19442e-05	0.999933	1.70647e-05	0.999904
PAH8+H	1.18462e-05	0.999944	1.69246e-05	0.999921
rad13	1.14397e-05	0.999956	1.63438e-05	0.999937
rad45	7.13707e-06	0.999963	1.01967e-05	0.999947
rad22	5.24974e-06	0.999968	7.50028e-06	0.999955
rad64	4.33932e-06	0.999973	6.19958e-06	0.999961
rad65	3.71883e-06	0.999976	5.31310e-06	0.999966
rad59	3.62954e-06	0.999980	5.18553e-06	0.999971
rad42	2.42997e-06	0.999982	3.47169e-06	0.999975
rad21	2.42523e-06	0.999985	3.46492e-06	0.999978
rad60syn	2.32014e-06	0.999987	3.31480e-06	0.999982
rad68syn	1.96446e-06	0.999989	2.80662e-06	0.999984
rad60anti	1.64349e-06	0.999991	2.34805e-06	0.999987
rad36	1.26077e-06	0.999992	1.80126e-06	0.999989
rad68anti	1.25734e-06	0.999993	1.79637e-06	0.999990
rad40syn	1.03827e-06	0.999994	1.48338e-06	0.999992
rad15	9.41873e-07	0.999995	1.34565e-06	0.999993
rad40anti	7.55623e-07	0.999996	1.07956e-06	0.999994
rad33	7.45882e-07	0.999997	1.06564e-06	0.999995
rad58	7.13860e-07	0.999997	1.01989e-06	0.999996
rad20	5.69347e-07	0.999998	8.13428e-07	0.999997
rad26	4.35228e-07	0.999998	6.21810e-07	0.999998
rad43	3.60421e-07	0.999999	5.14934e-07	0.999998
rad61	2.80991e-07	0.999999	4.01452e-07	0.999999
rad25	2.25448e-07	0.999999	3.22096e-07	0.999999
rad18	1.77531e-07	0.999999	2.53639e-07	0.999999
rad10	1.53016e-07	1.000000	2.18614e-07	1.000000
rad12	1.50706e-07	1.000000	2.15314e-07	1.000000
rad24	1.01539e-07	1.000000	1.45068e-07	1.000000
rad41	6.96841e-08	1.000000	9.95574e-08	1.000000
rad47	4.80043e-08	1.000000	6.85839e-08	1.000000
rad3	3.24789e-08	1.000000	4.64028e-08	1.000000
rad2	2.81294e-08	1.000000	4.01884e-08	1.000000
rad4	1.99285e-08	1.000000	2.84718e-08	1.000000
rad8	1.95266e-08	1.000000	2.78977e-08	1.000000
rad14	1.06340e-08	1.000000	1.51929e-08	1.000000
rad1	7.78201e-09	1.000000	1.11182e-08	1.000000
rad5	1.77574e-09	1.000000	2.53700e-09	1.000000
rad27	4.82760e-10	1.000000	6.89718e-10	1.000000

100000.000 Pa, 2500.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.28090e-11	(1.00)	2.31012e-11	(1.00)
Formation of rad11	6.43164e-12	(0.196)	2.57057e-12	(0.111)
Formation of rad6	9.73932e-12	(0.297)	3.89256e-12	(0.169)
H-abstraction	1.66381e-11	(0.507)	1.66381e-11	(0.720)
species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.507119	0.507119	0.720225	0.720225
Phenyl+Allene	0.295889	0.803008	0.000000	0.720225
PhCH2CCH+H	0.0923044	0.895312	0.131094	0.851319
PhCHCCH2+H	0.0469101	0.942222	0.0666233	0.917942
C2H2+PhCH2	0.0175067	0.959729	0.0248635	0.942806
PhCCH+CH3	0.0141050	0.973834	0.0200323	0.962838
Indene+H	0.00810509	0.981939	0.0115111	0.974349
PAH7+H	0.00537808	0.987317	0.00763807	0.981987
Ph+MeAc	0.00334115	0.990658	0.00474520	0.986733
rad6	0.00236066	0.993019	0.00335268	0.990085
PhcycC3H3_A+H	0.00197986	0.994999	0.00281185	0.992897
rad19syn	0.00140067	0.996399	0.00198928	0.994886

rad39	0.000716615	0.997116	0.00101776	0.995904
rad54	0.000602089	0.997718	0.000855109	0.996759
rad19anti	0.000352318	0.998070	0.000500371	0.997260
PAH9+H	0.000310178	0.998380	0.000440525	0.997700
rad38	0.000192133	0.998573	0.000272873	0.997973
PAH1+H	0.000168458	0.998741	0.000239249	0.998212
rad50	0.000157406	0.998898	0.000223553	0.998436
PhCCCH3+H	0.000152960	0.999051	0.000217239	0.998653
rad51	0.000105912	0.999157	0.000150420	0.998803
rad46	7.26221e-05	0.999230	0.000103141	0.998907
rad71	7.15787e-05	0.999302	0.000101658	0.999008
rad55	6.05357e-05	0.999362	8.59750e-05	0.999094
PAH10+CH3	5.65700e-05	0.999419	8.03426e-05	0.999175
rad35	5.65029e-05	0.999475	8.02472e-05	0.999255
rad7	5.40656e-05	0.999529	7.67858e-05	0.999332
rad56	5.36220e-05	0.999583	7.61555e-05	0.999408
rad70	5.08989e-05	0.999634	7.22879e-05	0.999480
PAH3+H	4.73617e-05	0.999681	6.72645e-05	0.999547
rad11	4.49058e-05	0.999726	6.37766e-05	0.999611
rad67	4.01540e-05	0.999766	5.70279e-05	0.999668
rad53	3.83612e-05	0.999805	5.44816e-05	0.999723
rad73	2.30883e-05	0.999828	3.27907e-05	0.999755
rad52	2.00658e-05	0.999848	2.84981e-05	0.999784
rad34	1.65484e-05	0.999864	2.35026e-05	0.999807
rad23	1.61715e-05	0.999880	2.29673e-05	0.999830
rad30	1.40344e-05	0.999894	1.99320e-05	0.999850
rad37	1.34899e-05	0.999908	1.91588e-05	0.999869
rad72	1.33186e-05	0.999921	1.89155e-05	0.999888
PAH8+H	1.22582e-05	0.999933	1.74095e-05	0.999906
rad62	9.53765e-06	0.999943	1.35456e-05	0.999919
rad9	8.52123e-06	0.999952	1.21021e-05	0.999931
rad28	8.15822e-06	0.999960	1.15866e-05	0.999943
rad13	6.42643e-06	0.999966	9.12700e-06	0.999952
rad64	4.21801e-06	0.999970	5.99053e-06	0.999958
rad45	3.93197e-06	0.999974	5.58430e-06	0.999964
rad59	3.84552e-06	0.999978	5.46151e-06	0.999969
rad65	2.56143e-06	0.999981	3.63783e-06	0.999973
rad68syn	2.36708e-06	0.999983	3.36180e-06	0.999976
rad60syn	2.35483e-06	0.999985	3.34440e-06	0.999980
rad22	2.08119e-06	0.999987	2.95576e-06	0.999982
rad42	1.74388e-06	0.999989	2.47672e-06	0.999985
rad60anti	1.67966e-06	0.999991	2.38550e-06	0.999987
rad68anti	1.51567e-06	0.999992	2.15260e-06	0.999989
rad21	1.29976e-06	0.999994	1.84595e-06	0.999991
rad40syn	1.15478e-06	0.999995	1.64005e-06	0.999993
rad40anti	8.12929e-07	0.999996	1.15455e-06	0.999994
rad58	7.57115e-07	0.999996	1.07528e-06	0.999995
rad36	7.00651e-07	0.999997	9.95086e-07	0.999996
rad15	5.48232e-07	0.999998	7.78618e-07	0.999997
rad33	4.74271e-07	0.999998	6.73574e-07	0.999998
rad43	3.25321e-07	0.999999	4.62031e-07	0.999998
rad20	2.88538e-07	0.999999	4.09792e-07	0.999999
rad61	2.51865e-07	0.999999	3.57706e-07	0.999999
rad26	2.24749e-07	0.999999	3.19195e-07	0.999999
rad25	1.29711e-07	0.999999	1.84220e-07	0.999999
rad12	1.06118e-07	1.000000	1.50712e-07	1.000000
rad10	8.40974e-08	1.000000	1.19438e-07	1.000000
rad18	8.30431e-08	1.000000	1.17940e-07	1.000000
rad24	6.52053e-08	1.000000	9.26065e-08	1.000000
rad41	5.61811e-08	1.000000	7.97903e-08	1.000000
rad47	2.84784e-08	1.000000	4.04459e-08	1.000000
rad3	1.76137e-08	1.000000	2.50155e-08	1.000000
rad8	1.75140e-08	1.000000	2.48740e-08	1.000000
rad2	1.32698e-08	1.000000	1.88462e-08	1.000000
rad4	1.06530e-08	1.000000	1.51297e-08	1.000000
rad14	7.07674e-09	1.000000	1.00506e-08	1.000000
rad1	3.56192e-09	1.000000	5.05875e-09	1.000000
rad5	1.37374e-09	1.000000	1.95103e-09	1.000000
rad27	3.14298e-10	1.000000	4.46375e-10	1.000000

100000.000 Pa, 2750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.60596e-11 (1.00)	3.25871e-11 (1.00)
Formation of rad11	8.62280e-12 (0.187)	3.33125e-12 (0.102)
Formation of rad6	1.33313e-11 (0.289)	5.15029e-12 (0.158)
H-abstraction	2.41055e-11 (0.523)	2.41055e-11 (0.740)
species	PYtrue Cumul	PYeffective Cumul

Benzene+2-propynyl	0.523355	0.523355	0.739727	0.739727
Phenyl+Allene	0.292503	0.815858	0.00000	0.739727
PhCH2CCH+H	0.0905540	0.906412	0.127992	0.867719
PhCHCCH2+H	0.0436265	0.950038	0.0616631	0.929382
C2H2+PhCH2	0.0152567	0.965295	0.0215643	0.950947
PhCCH+CH3	0.0125766	0.977871	0.0177762	0.968723
Indene+H	0.00598590	0.983857	0.00846070	0.977184
PAH7+H	0.00500249	0.988860	0.00707068	0.984254
Ph+MeAc	0.00313090	0.991991	0.00442532	0.988680
PhcycC3H3_A+H	0.00219232	0.994183	0.00309871	0.991778
rad19syn	0.00150967	0.995693	0.00213383	0.993912
rad6	0.00104026	0.996733	0.00147034	0.995383
rad54	0.000668733	0.997402	0.000945213	0.996328
rad39	0.000602051	0.998004	0.000850960	0.997179
rad19anti	0.000311298	0.998315	0.000439999	0.997619
PAH9+H	0.000259178	0.998574	0.000366332	0.997985
PAH1+H	0.000175652	0.998750	0.000248273	0.998233
rad38	0.000163702	0.998914	0.000231382	0.998465
PhCCCH3+H	0.000132906	0.999047	0.000187855	0.998653
rad50	0.000125376	0.999172	0.000177211	0.998830
rad51	7.83014e-05	0.999250	0.000110674	0.998940
rad55	6.88009e-05	0.999319	9.72456e-05	0.999038
rad56	6.36183e-05	0.999383	8.99204e-05	0.999128
rad46	6.16002e-05	0.999444	8.70678e-05	0.999215
PAH10+CH3	5.75640e-05	0.999502	8.13632e-05	0.999296
rad70	5.70816e-05	0.999559	8.06813e-05	0.999377
PAH3+H	5.26531e-05	0.999612	7.44217e-05	0.999451
rad35	5.10196e-05	0.999663	7.21125e-05	0.999523
rad53	4.56638e-05	0.999708	6.45428e-05	0.999588
rad71	4.26329e-05	0.999751	6.02589e-05	0.999648
rad67	4.19967e-05	0.999793	5.93594e-05	0.999707
rad7	2.86879e-05	0.999822	4.05485e-05	0.999748
rad11	2.12673e-05	0.999843	3.00600e-05	0.999778
rad34	1.95095e-05	0.999862	2.75754e-05	0.999806
PAH8+H	1.61656e-05	0.999878	2.28491e-05	0.999828
rad52	1.55505e-05	0.999894	2.19796e-05	0.999850
rad73	1.43468e-05	0.999908	2.02782e-05	0.999871
rad30	1.28941e-05	0.999921	1.82249e-05	0.999889
rad37	1.21562e-05	0.999933	1.71820e-05	0.999906
rad62	8.74744e-06	0.999942	1.23639e-05	0.999918
rad72	7.54263e-06	0.999950	1.06610e-05	0.999929
rad23	7.52671e-06	0.999957	1.06385e-05	0.999940
rad64	4.57177e-06	0.999962	6.46190e-06	0.999946
rad9	4.42457e-06	0.999966	6.25384e-06	0.999953
rad59	4.17211e-06	0.999970	5.89701e-06	0.999958
rad28	3.64029e-06	0.999974	5.14531e-06	0.999964
rad13	3.59734e-06	0.999978	5.08459e-06	0.999969
rad68syn	3.11394e-06	0.999981	4.40135e-06	0.999973
rad60syn	2.41354e-06	0.999983	3.41137e-06	0.999976
rad45	2.12046e-06	0.999985	2.99712e-06	0.999979
rad68anti	1.99218e-06	0.999987	2.81582e-06	0.999982
rad65	1.88319e-06	0.999989	2.66176e-06	0.999985
rad60anti	1.73631e-06	0.999991	2.45416e-06	0.999987
rad40syn	1.52843e-06	0.999992	2.16033e-06	0.999990
rad42	1.48532e-06	0.999994	2.09940e-06	0.999992
rad40anti	1.07137e-06	0.999995	1.51432e-06	0.999993
rad22	9.11999e-07	0.999996	1.28905e-06	0.999994
rad58	8.92804e-07	0.999997	1.26192e-06	0.999996
rad21	7.21179e-07	0.999998	1.01934e-06	0.999997
rad36	3.80786e-07	0.999998	5.38216e-07	0.999997
rad43	3.26792e-07	0.999998	4.61899e-07	0.999998
rad15	3.02257e-07	0.999999	4.27220e-07	0.999998
rad33	2.97350e-07	0.999999	4.20286e-07	0.999999
rad61	2.62146e-07	0.999999	3.70527e-07	0.999999
rad20	1.57279e-07	0.999999	2.22303e-07	0.999999
rad26	1.14728e-07	0.999999	1.62161e-07	0.999999
rad25	7.66117e-08	0.999999	1.08286e-07	0.999999
rad12	7.06121e-08	0.999999	9.98053e-08	1.000000
rad41	5.42894e-08	1.000000	7.67342e-08	1.000000
rad10	4.53339e-08	1.000000	6.40766e-08	1.000000
rad24	4.17415e-08	1.000000	5.89990e-08	1.000000
rad18	4.17210e-08	1.000000	5.89698e-08	1.000000
rad47	1.91914e-08	1.000000	2.71259e-08	1.000000
rad8	1.55676e-08	1.000000	2.20037e-08	1.000000
rad3	9.63505e-09	1.000000	1.36185e-08	1.000000
rad2	6.46160e-09	1.000000	9.13306e-09	1.000000
rad4	5.76507e-09	1.000000	8.14855e-09	1.000000
rad14	4.73006e-09	1.000000	6.68563e-09	1.000000
rad1	1.66993e-09	1.000000	2.36033e-09	1.000000

rad5	1.04113e-09	1.000000	1.47157e-09	1.000000
rad27	2.08769e-10	1.000000	2.95082e-10	1.000000

100000.000 Pa, 3000.00000 K

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Rate constant      | True (fraction)      | Effective (fraction)
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Total              | 6.24269e-11 (1.00   ) | 4.43808e-11 (1.00   )
Formation of rad11 | 1.12221e-11 (0.180   ) | 4.20869e-12 (0.0948  )
Formation of rad6  | 1.76534e-11 (0.283   ) | 6.62069e-12 (0.149   )
H-abstraction     | 3.35514e-11 (0.537   ) | 3.35514e-11 (0.756   )

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species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.755990	0.755990
Phenyl+Allene	0.289076	0.826527	0.000000	0.755990
PhCH2CCH+H	0.0879805	0.914508	0.123755	0.879744
PhCHCCH2+H	0.0406471	0.955155	0.0571748	0.936919
C2H2+PhCH2	0.0137797	0.968934	0.0193828	0.956302
PhCCH+CH3	0.0112496	0.980184	0.0158239	0.972126
PAH7+H	0.00462543	0.984809	0.00650622	0.978632
Indene+H	0.00443343	0.989243	0.00623615	0.984868
Ph+MeAc	0.00296865	0.992212	0.00417575	0.989044
PhcycC3H3_A+H	0.00255441	0.994766	0.00359308	0.992637
rad19syn	0.00164542	0.996411	0.00231448	0.994952
rad54	0.000733417	0.997145	0.00103164	0.995983
rad39	0.000511514	0.997656	0.000719501	0.996703
rad6	0.000477674	0.998134	0.000671907	0.997375
rad19anti	0.000268226	0.998402	0.000377291	0.997752
PAH9+H	0.000221688	0.998624	0.000311831	0.998064
PAH1+H	0.000192734	0.998817	0.000271103	0.998335
rad38	0.000143289	0.998960	0.000201553	0.998536
PhCCCH3+H	0.000116733	0.999077	0.000164199	0.998701
rad50	0.000111746	0.999188	0.000157184	0.998858
rad56	8.17786e-05	0.999270	0.000115031	0.998973
rad55	7.76652e-05	0.999348	0.000109245	0.999082
rad51	6.73790e-05	0.999415	9.47765e-05	0.999177
rad70	6.24769e-05	0.999478	8.78811e-05	0.999265
PAH3+H	5.87354e-05	0.999536	8.26180e-05	0.999347
PAH10+CH3	5.83672e-05	0.999595	8.21005e-05	0.999429
rad53	5.68315e-05	0.999652	7.99402e-05	0.999509
rad46	5.46487e-05	0.999706	7.68698e-05	0.999586
rad35	4.68765e-05	0.999753	6.59375e-05	0.999652
rad67	4.34125e-05	0.999797	6.10648e-05	0.999713
rad71	2.93638e-05	0.999826	4.13036e-05	0.999755
PAH8+H	2.29932e-05	0.999849	3.23426e-05	0.999787
rad34	2.24471e-05	0.999871	3.15745e-05	0.999819
rad7	1.55735e-05	0.999887	2.19060e-05	0.999840
rad52	1.37139e-05	0.999901	1.92903e-05	0.999860
rad30	1.19124e-05	0.999913	1.67562e-05	0.999876
rad11	1.07401e-05	0.999923	1.51072e-05	0.999892
rad37	1.06516e-05	0.999934	1.49827e-05	0.999907
rad73	1.05318e-05	0.999945	1.48143e-05	0.999921
rad62	9.35190e-06	0.999954	1.31546e-05	0.999935
rad64	5.18203e-06	0.999959	7.28915e-06	0.999942
rad72	4.71295e-06	0.999964	6.62930e-06	0.999948
rad59	4.52192e-06	0.999968	6.36062e-06	0.999955
rad68syn	4.08948e-06	0.999972	5.75232e-06	0.999961
rad23	3.60682e-06	0.999976	5.07341e-06	0.999966
rad68anti	2.61320e-06	0.999979	3.67577e-06	0.999969
rad60syn	2.47076e-06	0.999981	3.47542e-06	0.999973
rad9	2.27210e-06	0.999983	3.19597e-06	0.999976
rad40syn	2.10042e-06	0.999985	2.95450e-06	0.999979
rad13	2.05922e-06	0.999987	2.89652e-06	0.999982
rad60anti	1.79267e-06	0.999989	2.52160e-06	0.999984
rad28	1.68339e-06	0.999991	2.36789e-06	0.999987
rad42	1.60312e-06	0.999993	2.25497e-06	0.999989
rad65	1.59518e-06	0.999994	2.24381e-06	0.999991
rad40anti	1.49032e-06	0.999996	2.09631e-06	0.999993
rad45	1.14358e-06	0.999997	1.60858e-06	0.999995
rad58	1.08081e-06	0.999998	1.52028e-06	0.999996
rad22	4.30477e-07	0.999998	6.05517e-07	0.999997
rad21	4.19144e-07	0.999999	5.89575e-07	0.999998
rad43	3.52424e-07	0.999999	4.95727e-07	0.999998
rad61	2.94096e-07	0.999999	4.13681e-07	0.999999
rad36	2.06757e-07	1.000000	2.90829e-07	0.999999
rad33	1.88252e-07	1.000000	2.64800e-07	0.999999
rad15	1.64347e-07	1.000000	2.31173e-07	0.999999
rad20	9.28488e-08	1.000000	1.30603e-07	0.999999
rad41	6.11360e-08	1.000000	8.59951e-08	1.000000

rad26	5.84009e-08	1.00000	8.21478e-08	1.000000
rad25	4.70625e-08	1.00000	6.61990e-08	1.000000
rad12	4.62558e-08	1.00000	6.50646e-08	1.000000
rad24	2.70000e-08	1.00000	3.79787e-08	1.000000
rad10	2.44957e-08	1.00000	3.44560e-08	1.000000
rad18	2.24541e-08	1.00000	3.15845e-08	1.000000
rad47	1.53323e-08	1.00000	2.15667e-08	1.000000
rad8	1.38018e-08	1.00000	1.94138e-08	1.000000
rad3	5.43744e-09	1.00000	7.64838e-09	1.000000
rad2	3.29947e-09	1.00000	4.64108e-09	1.000000
rad14	3.27730e-09	1.00000	4.60992e-09	1.000000
rad4	3.24099e-09	1.00000	4.55885e-09	1.000000
rad1	8.19322e-10	1.00000	1.15247e-09	1.000000
rad5	7.86185e-10	1.00000	1.10586e-09	1.000000
rad27	1.43250e-10	1.00000	2.01498e-10	1.000000

100000.000 Pa, 3250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.22129e-11 (1.00)	5.87549e-11 (1.00)
Formation of rad11	1.42538e-11 (0.173)	5.21897e-12 (0.0888)
Formation of rad6	2.27549e-11 (0.277)	8.33160e-12 (0.142)
H-abstraction	4.52043e-11 (0.550)	4.52043e-11 (0.769)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.549844	0.549844	0.769371	0.769371
Phenyl+Allene	0.285333	0.835177	0.000000	0.769371
PhCH2CCH+H	0.0852452	0.920422	0.119280	0.888651
PhCHCCH2+H	0.0381255	0.958548	0.0533472	0.941998
C2H2+PhCH2	0.0128408	0.971389	0.0179675	0.959966
PhCCH+CH3	0.0101513	0.981540	0.0142043	0.974170
PAH7+H	0.00427023	0.985810	0.00597513	0.980145
Indene+H	0.00332893	0.989139	0.00465801	0.984803
PhcycC3H3_A+H	0.00296463	0.992104	0.00414828	0.988951
Ph+MeAc	0.00284914	0.994953	0.00398665	0.992938
rad19syn	0.00177287	0.996726	0.00248069	0.995419
rad54	0.000785189	0.997511	0.00109868	0.996517
rad39	0.000441259	0.997952	0.000617433	0.997135
rad6	0.000231179	0.998183	0.000323478	0.997458
rad19anti	0.000229716	0.998413	0.000321430	0.997780
PAH1+H	0.000213693	0.998627	0.000299010	0.998079
PAH9+H	0.000191314	0.998818	0.000267696	0.998346
rad38	0.000126431	0.998944	0.000176909	0.998523
rad50	0.000106098	0.999051	0.000148458	0.998672
PhCCCH3+H	0.000104021	0.999155	0.000145552	0.998817
rad56	0.000103978	0.999259	0.000145491	0.998963
rad55	8.55044e-05	0.999344	0.000119642	0.999082
rad53	6.94307e-05	0.999414	9.71511e-05	0.999179
rad70	6.68954e-05	0.999480	9.36035e-05	0.999273
PAH3+H	6.46928e-05	0.999545	9.05216e-05	0.999364
rad51	6.44403e-05	0.999610	9.01683e-05	0.999454
PAH10+CH3	5.84280e-05	0.999668	8.17557e-05	0.999536
rad46	4.93349e-05	0.999717	6.90319e-05	0.999605
rad67	4.42059e-05	0.999762	6.18554e-05	0.999666
rad35	4.33625e-05	0.999805	6.06752e-05	0.999727
PAH8+H	3.20928e-05	0.999837	4.49060e-05	0.999772
rad34	2.51536e-05	0.999862	3.51963e-05	0.999807
rad71	2.50971e-05	0.999887	3.51172e-05	0.999842
rad52	1.30782e-05	0.999900	1.82998e-05	0.999861
rad62	1.10692e-05	0.999911	1.54886e-05	0.999876
rad30	1.10508e-05	0.999922	1.54629e-05	0.999892
rad73	9.47380e-06	0.999932	1.32562e-05	0.999905
rad37	9.20736e-06	0.999941	1.28834e-05	0.999918
rad7	8.78916e-06	0.999950	1.22983e-05	0.999930
rad64	5.85991e-06	0.999956	8.19950e-06	0.999938
rad11	5.80800e-06	0.999962	8.12686e-06	0.999946
rad68syn	5.19435e-06	0.999967	7.26820e-06	0.999954
rad59	4.84273e-06	0.999972	6.77620e-06	0.999960
rad72	3.61435e-06	0.999975	5.05739e-06	0.999965
rad68anti	3.31555e-06	0.999979	4.63931e-06	0.999970
rad40syn	2.81141e-06	0.999981	3.93388e-06	0.999974
rad60syn	2.51230e-06	0.999984	3.51534e-06	0.999978
rad40anti	2.02663e-06	0.999986	2.83577e-06	0.999980
rad42	2.01437e-06	0.999988	2.81861e-06	0.999983
rad60anti	1.83708e-06	0.999990	2.57054e-06	0.999986
rad23	1.78253e-06	0.999992	2.49421e-06	0.999988
rad65	1.50053e-06	0.999993	2.09962e-06	0.999990
rad58	1.29094e-06	0.999994	1.80635e-06	0.999992

rad13	1.22566e-06	0.999996	1.71501e-06	0.999994
rad9	1.18819e-06	0.999997	1.66257e-06	0.999996
rad28	8.13968e-07	0.999998	1.13895e-06	0.999997
rad45	6.26446e-07	0.999998	8.76558e-07	0.999998
rad43	3.92483e-07	0.999999	5.49183e-07	0.999998
rad61	3.33145e-07	0.999999	4.66154e-07	0.999999
rad21	2.56372e-07	0.999999	3.58729e-07	0.999999
rad22	2.18330e-07	0.999999	3.05498e-07	0.999999
rad33	1.22051e-07	0.999999	1.70780e-07	0.999999
rad36	1.13908e-07	1.000000	1.59387e-07	1.000000
rad15	9.06349e-08	1.000000	1.26821e-07	1.000000
rad41	7.36514e-08	1.000000	1.03057e-07	1.000000
rad20	5.92536e-08	1.000000	8.29106e-08	1.000000
rad12	3.05903e-08	1.000000	4.28036e-08	1.000000
rad26	3.02873e-08	1.000000	4.23795e-08	1.000000
rad25	3.02217e-08	1.000000	4.22879e-08	1.000000
rad24	1.78000e-08	1.000000	2.49068e-08	1.000000
rad47	1.39203e-08	1.000000	1.94780e-08	1.000000
rad10	1.35337e-08	1.000000	1.89371e-08	1.000000
rad18	1.29133e-08	1.000000	1.80690e-08	1.000000
rad8	1.22270e-08	1.000000	1.71087e-08	1.000000
rad3	3.21042e-09	1.000000	4.49219e-09	1.000000
rad14	2.41570e-09	1.000000	3.38019e-09	1.000000
rad4	1.92373e-09	1.000000	2.69179e-09	1.000000
rad2	1.78594e-09	1.000000	2.49898e-09	1.000000
rad5	6.01170e-10	1.000000	8.41191e-10	1.000000
rad1	4.28137e-10	1.000000	5.99073e-10	1.000000
rad27	1.02326e-10	1.000000	1.43180e-10	1.000000

100000.000 Pa, 3500.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.05713e-10	(1.00)	7.59702e-11	(1.00)
Formation of rad11	1.77412e-11	(0.168)	6.37463e-12	(0.0839)
Formation of rad6	2.86822e-11	(0.271)	1.03059e-11	(0.136)
H-abstraction	5.92897e-11	(0.561)	5.92897e-11	(0.780)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.780434	0.780434
Phenyl+Allene	0.281355	0.842210	0.00000	0.780434
PhCH2CCH+H	0.0826151	0.924825	0.114960	0.895393
PhCHCCH2+H	0.0360375	0.960862	0.0501465	0.945540
C2H2+PhCH2	0.0122510	0.973113	0.0170474	0.962587
PhCCH+CH3	0.00925490	0.982368	0.0128783	0.975466
PAH7+H	0.00394424	0.986313	0.00548843	0.980954
PhcycC3H3_A+H	0.00336811	0.989681	0.00468675	0.985641
Ph+MeAc	0.00276284	0.992444	0.00384452	0.989485
Indene+H	0.00254714	0.994991	0.00354437	0.993030
rad19syn	0.00187754	0.996868	0.00261262	0.995642
rad54	0.000820890	0.997689	0.00114228	0.996784
rad39	0.000386173	0.998075	0.000537364	0.997322
PAH1+H	0.000236140	0.998311	0.000328590	0.997650
rad19anti	0.000197487	0.998509	0.000274805	0.997925
PAH9+H	0.000165008	0.998674	0.000229609	0.998155
rad56	0.000127533	0.998801	0.000177463	0.998332
rad6	0.000118872	0.998920	0.000165411	0.998498
rad38	0.000111274	0.999032	0.000154838	0.998653
rad50	0.000102877	0.999134	0.000143155	0.998796
PhCCCH3+H	9.40724e-05	0.999229	0.000130903	0.998927
rad55	9.16751e-05	0.999320	0.000127566	0.999054
rad53	8.19950e-05	0.999402	0.000114097	0.999168
rad70	7.03142e-05	0.999473	9.78427e-05	0.999266
PAH3+H	7.00608e-05	0.999543	9.74905e-05	0.999364
rad51	6.44437e-05	0.999607	8.96742e-05	0.999453
PAH10+CH3	5.77410e-05	0.999665	8.03468e-05	0.999534
rad46	4.45812e-05	0.999709	6.20349e-05	0.999596
rad67	4.44108e-05	0.999754	6.17976e-05	0.999657
PAH8+H	4.29429e-05	0.999797	5.97554e-05	0.999717
rad35	4.01777e-05	0.999837	5.59075e-05	0.999773
rad34	2.75279e-05	0.999864	3.83053e-05	0.999811
rad71	2.56658e-05	0.999890	3.57142e-05	0.999847
rad62	1.39120e-05	0.999904	1.93587e-05	0.999867
rad52	1.28263e-05	0.999917	1.78479e-05	0.999884
rad30	1.02773e-05	0.999927	1.43009e-05	0.999899
rad73	9.81538e-06	0.999937	1.36582e-05	0.999912
rad37	7.92455e-06	0.999945	1.10271e-05	0.999923
rad64	6.51253e-06	0.999951	9.06225e-06	0.999932
rad68syn	6.35619e-06	0.999958	8.84468e-06	0.999941

rad7	5.18820e-06	0.999963	7.21941e-06	0.999948
rad59	5.11104e-06	0.999968	7.11202e-06	0.999956
rad68anti	4.05330e-06	0.999972	5.64020e-06	0.999961
rad40syn	3.61595e-06	0.999976	5.03163e-06	0.999966
rad72	3.50408e-06	0.999979	4.87595e-06	0.999971
rad11	3.35749e-06	0.999983	4.67198e-06	0.999976
rad42	2.71912e-06	0.999985	3.78368e-06	0.999980
rad40anti	2.64704e-06	0.999988	3.68338e-06	0.999983
rad60syn	2.53303e-06	0.999990	3.52472e-06	0.999987
rad60anti	1.86518e-06	0.999992	2.59541e-06	0.999989
rad58	1.50462e-06	0.999994	2.09369e-06	0.999991
rad65	1.47698e-06	0.999995	2.05522e-06	0.999994
rad23	9.14358e-07	0.999996	1.27233e-06	0.999995
rad13	7.63235e-07	0.999997	1.06205e-06	0.999996
rad9	6.43805e-07	0.999998	8.95861e-07	0.999997
rad43	4.45930e-07	0.999998	6.20519e-07	0.999997
rad28	4.15315e-07	0.999998	5.77914e-07	0.999998
rad61	3.71509e-07	0.999999	5.16958e-07	0.999998
rad45	3.51555e-07	0.999999	4.89192e-07	0.999999
rad21	1.64773e-07	0.999999	2.29284e-07	0.999999
rad22	1.18771e-07	0.999999	1.65270e-07	0.999999
rad41	9.11468e-08	1.000000	1.26832e-07	0.999999
rad33	8.14329e-08	1.000000	1.13314e-07	1.000000
rad36	6.42114e-08	1.000000	8.93508e-08	1.000000
rad15	5.15192e-08	1.000000	7.16893e-08	1.000000
rad20	4.04937e-08	1.000000	5.63473e-08	1.000000
rad12	2.06869e-08	1.000000	2.87860e-08	1.000000
rad25	2.02576e-08	1.000000	2.81886e-08	1.000000
rad26	1.62435e-08	1.000000	2.26030e-08	1.000000
rad47	1.34202e-08	1.000000	1.86743e-08	1.000000
rad24	1.20053e-08	1.000000	1.67054e-08	1.000000
rad8	1.08166e-08	1.000000	1.50514e-08	1.000000
rad18	7.88644e-09	1.000000	1.09740e-08	1.000000
rad10	7.73010e-09	1.000000	1.07565e-08	1.000000
rad3	1.99113e-09	1.000000	2.77069e-09	1.000000
rad14	1.92369e-09	1.000000	2.67682e-09	1.000000
rad4	1.21087e-09	1.000000	1.68493e-09	1.000000
rad2	1.02669e-09	1.000000	1.42865e-09	1.000000
rad5	4.69640e-10	1.000000	6.53511e-10	1.000000
rad1	2.40047e-10	1.000000	3.34028e-10	1.000000
rad27	7.65255e-11	1.000000	1.06485e-10	1.000000

100000.000 Pa, 3750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.33217e-10 (1.00)	9.62771e-11 (1.00)
Formation of rad11	2.17064e-11 (0.163)	7.68505e-12 (0.0798)
Formation of rad6	3.54800e-11 (0.266)	1.25615e-11 (0.130)
H-abstraction	7.60305e-11 (0.571)	7.60305e-11 (0.790)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789705	0.789705
Phenyl+Allene	0.277291	0.848018	0.00000	0.789705
PhCH2CCH+H	0.0801744	0.928193	0.110936	0.900641
PhCHCCH2+H	0.0343111	0.962504	0.0474757	0.948117
C2H2+PhCH2	0.0118817	0.974385	0.0164405	0.964557
PhCCH+CH3	0.00852222	0.982908	0.0117920	0.976349
PhcycC3H3_A+H	0.00373746	0.986645	0.00517146	0.981521
PAH7+H	0.00364775	0.990293	0.00504730	0.986568
Ph+MeAc	0.00270062	0.992993	0.00373679	0.990305
Indene+H	0.00198954	0.994983	0.00275288	0.993058
rad19syn	0.00195547	0.996938	0.00270576	0.995764
rad54	0.000840954	0.997779	0.00116361	0.996927
rad39	0.000341983	0.998121	0.000473195	0.997400
PAH1+H	0.000259645	0.998381	0.000359265	0.997760
rad19anti	0.000171180	0.998552	0.000236859	0.997997
rad56	0.000150710	0.998703	0.000208534	0.998205
PAH9+H	0.000141729	0.998845	0.000196107	0.998401
rad50	9.96419e-05	0.998944	0.000137873	0.998539
rad38	9.72930e-05	0.999042	0.000134622	0.998674
rad55	9.60386e-05	0.999138	0.000132887	0.998807
rad53	9.36733e-05	0.999231	0.000129614	0.998936
PhCCCH3+H	8.62864e-05	0.999318	0.000119393	0.999056
PAH3+H	7.46523e-05	0.999392	0.000103295	0.999159
rad70	7.27853e-05	0.999465	0.000100712	0.999260
rad6	6.50353e-05	0.999530	8.99878e-05	0.999350
rad51	6.48794e-05	0.999595	8.97725e-05	0.999439
PAH10+CH3	5.64867e-05	0.999651	7.81598e-05	0.999518

PAH8+H	5.50881e-05	0.999707	7.62240e-05	0.999594
rad67	4.41374e-05	0.999751	6.10723e-05	0.999655
rad46	4.00456e-05	0.999791	5.54103e-05	0.999710
rad35	3.72434e-05	0.999828	5.15329e-05	0.999762
rad34	2.95284e-05	0.999857	4.08577e-05	0.999803
rad71	2.86470e-05	0.999886	3.96382e-05	0.999842
rad62	1.79803e-05	0.999904	2.48789e-05	0.999867
rad52	1.25804e-05	0.999917	1.74073e-05	0.999885
rad73	1.07751e-05	0.999927	1.49093e-05	0.999899
rad30	9.57291e-06	0.999937	1.32459e-05	0.999913
rad68syn	7.52120e-06	0.999945	1.04070e-05	0.999923
rad64	7.10266e-06	0.999952	9.82783e-06	0.999933
rad37	6.82771e-06	0.999958	9.44736e-06	0.999942
rad59	5.32049e-06	0.999964	7.36187e-06	0.999950
rad68anti	4.79240e-06	0.999969	6.63112e-06	0.999956
rad40syn	4.47774e-06	0.999973	6.19574e-06	0.999963
rad72	3.95708e-06	0.999977	5.47534e-06	0.999968
rad42	3.75218e-06	0.999981	5.19182e-06	0.999973
rad40anti	3.32437e-06	0.999984	4.59988e-06	0.999978
rad7	3.20160e-06	0.999987	4.42998e-06	0.999982
rad60syn	2.53331e-06	0.999990	3.50530e-06	0.999986
rad11	2.06269e-06	0.999992	2.85410e-06	0.999989
rad60anti	1.87695e-06	0.999994	2.59710e-06	0.999991
rad58	1.71096e-06	0.999995	2.36741e-06	0.999994
rad65	1.46609e-06	0.999997	2.02860e-06	0.999996
rad43	5.15363e-07	0.999997	7.13099e-07	0.999996
rad13	4.97042e-07	0.999998	6.87750e-07	0.999997
rad23	4.88852e-07	0.999998	6.76413e-07	0.999998
rad61	4.05777e-07	0.999999	5.61466e-07	0.999998
rad9	3.64472e-07	0.999999	5.04312e-07	0.999999
rad28	2.24318e-07	0.999999	3.10384e-07	0.999999
rad45	2.02875e-07	1.000000	2.80714e-07	0.999999
rad41	1.14181e-07	1.000000	1.57990e-07	1.000000
rad21	1.10752e-07	1.000000	1.53246e-07	1.000000
rad22	6.89738e-08	1.000000	9.54376e-08	1.000000
rad33	5.59076e-08	1.000000	7.73584e-08	1.000000
rad36	3.71718e-08	1.000000	5.14339e-08	1.000000
rad15	3.04084e-08	1.000000	4.20756e-08	1.000000
rad20	2.92773e-08	1.000000	4.05105e-08	1.000000
rad12	1.43769e-08	1.000000	1.98930e-08	1.000000
rad25	1.41089e-08	1.000000	1.95222e-08	1.000000
rad47	1.31325e-08	1.000000	1.81711e-08	1.000000
rad8	9.54437e-09	1.000000	1.32064e-08	1.000000
rad26	9.07513e-09	1.000000	1.25571e-08	1.000000
rad24	8.29179e-09	1.000000	1.14732e-08	1.000000
rad18	5.07461e-09	1.000000	7.02161e-09	1.000000
rad10	4.58455e-09	1.000000	6.34356e-09	1.000000
rad14	1.65536e-09	1.000000	2.29049e-09	1.000000
rad3	1.29476e-09	1.000000	1.79154e-09	1.000000
rad4	8.05659e-10	1.000000	1.11478e-09	1.000000
rad2	6.24807e-10	1.000000	8.64532e-10	1.000000
rad5	3.75873e-10	1.000000	5.20088e-10	1.000000
rad1	1.44284e-10	1.000000	1.99643e-10	1.000000
rad27	6.01853e-11	1.000000	8.32771e-11	1.000000

100000.000 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.65008e-10 (1.00)	1.19918e-10 (1.00)
Formation of rad11	2.61707e-11 (0.159)	9.15768e-12 (0.0764)
Formation of rad6	4.31906e-11 (0.262)	1.51133e-11 (0.126)
H-abstraction	9.56470e-11 (0.580)	9.56470e-11 (0.798)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.579650	0.579650	0.797603	0.797603
Phenyl+Allene	0.273261	0.852911	0.000000	0.797603
PhCH2CCH+H	0.0779355	0.930846	0.107240	0.904844
PhCHCCH2+H	0.0328741	0.963720	0.0452352	0.950079
C2H2+PhCH2	0.0116507	0.975371	0.0160315	0.966110
PhCCH+CH3	0.00791898	0.983290	0.0108966	0.977007
PhcycC3H3_A+H	0.00406003	0.987350	0.00558665	0.982594
PAH7+H	0.00337888	0.990729	0.00464937	0.987243
Ph+MeAc	0.00265508	0.993384	0.00365342	0.990896
rad19syn	0.00200749	0.995391	0.00276233	0.993659
Indene+H	0.00158645	0.996978	0.00218297	0.995842
rad54	0.000847271	0.997825	0.00116586	0.997008
rad39	0.000305660	0.998131	0.000420592	0.997428
PAH1+H	0.000284444	0.998415	0.000391398	0.997820

rad56	0.000172358	0.998587	0.000237166	0.998057
rad19anti	0.000149831	0.998737	0.000206169	0.998263
PAH9+H	0.000121218	0.998859	0.000166797	0.998430
rad53	0.000103981	0.998963	0.000143079	0.998573
rad55	9.86924e-05	0.999061	0.000135802	0.998709
rad50	9.55953e-05	0.999157	0.000131540	0.998840
rad38	8.44787e-05	0.999241	0.000116244	0.998956
PhCCCH3+H	8.02020e-05	0.999321	0.000110359	0.999067
PAH3+H	7.84336e-05	0.999400	0.000107926	0.999175
rad70	7.43978e-05	0.999474	0.000102372	0.999277
PAH8+H	6.80951e-05	0.999542	9.36999e-05	0.999371
rad51	6.46890e-05	0.999607	8.90128e-05	0.999460
PAH10+CH3	5.48688e-05	0.999662	7.54998e-05	0.999535
rad67	4.35071e-05	0.999705	5.98663e-05	0.999595
rad6	3.77412e-05	0.999743	5.19323e-05	0.999647
rad46	3.57018e-05	0.999779	4.91261e-05	0.999696
rad35	3.45588e-05	0.999813	4.75533e-05	0.999744
rad71	3.26371e-05	0.999846	4.49090e-05	0.999789
rad34	3.11480e-05	0.999877	4.28599e-05	0.999832
rad62	2.32937e-05	0.999901	3.20523e-05	0.999864
rad52	1.22047e-05	0.999913	1.67937e-05	0.999880
rad73	1.19165e-05	0.999925	1.63972e-05	0.999897
rad30	8.92866e-06	0.999934	1.22859e-05	0.999909
rad68syn	8.64863e-06	0.999942	1.19006e-05	0.999921
rad64	7.61919e-06	0.999950	1.04841e-05	0.999931
rad37	5.90702e-06	0.999956	8.12814e-06	0.999940
rad68anti	5.50697e-06	0.999961	7.57762e-06	0.999947
rad59	5.47380e-06	0.999967	7.53204e-06	0.999955
rad40syn	5.36586e-06	0.999972	7.38351e-06	0.999962
rad42	5.13710e-06	0.999977	7.06872e-06	0.999969
rad72	4.72281e-06	0.999982	6.49863e-06	0.999976
rad40anti	4.03476e-06	0.999986	5.55188e-06	0.999981
rad60syn	2.51613e-06	0.999989	3.46224e-06	0.999985
rad7	2.05809e-06	0.999991	2.83197e-06	0.999987
rad58	1.90385e-06	0.999992	2.61972e-06	0.999990
rad60anti	1.87451e-06	0.999994	2.57936e-06	0.999993
rad65	1.44524e-06	0.999996	1.98866e-06	0.999995
rad11	1.33683e-06	0.999997	1.83949e-06	0.999996
rad43	6.02581e-07	0.999998	8.29160e-07	0.999997
rad61	4.34810e-07	0.999998	5.98302e-07	0.999998
rad13	3.37380e-07	0.999999	4.64239e-07	0.999998
rad23	2.72944e-07	0.999999	3.75575e-07	0.999999
rad9	2.16101e-07	0.999999	2.97357e-07	0.999999
rad41	1.43350e-07	0.999999	1.97251e-07	0.999999
rad28	1.28050e-07	0.999999	1.76198e-07	0.999999
rad45	1.20538e-07	0.999999	1.65861e-07	1.000000
rad21	7.74214e-08	0.999999	1.06532e-07	1.000000
rad22	4.24827e-08	1.000000	5.84566e-08	1.000000
rad33	3.94120e-08	1.000000	5.42313e-08	1.000000
rad20	2.21420e-08	1.000000	3.04678e-08	1.000000
rad36	2.21231e-08	1.000000	3.04416e-08	1.000000
rad15	1.86728e-08	1.000000	2.56940e-08	1.000000
rad47	1.27824e-08	1.000000	1.75888e-08	1.000000
rad12	1.02750e-08	1.000000	1.41384e-08	1.000000
rad25	1.01567e-08	1.000000	1.39757e-08	1.000000
rad8	8.39398e-09	1.000000	1.15502e-08	1.000000
rad24	5.86355e-09	1.000000	8.06829e-09	1.000000
rad26	5.29272e-09	1.000000	7.28283e-09	1.000000
rad18	3.41446e-09	1.000000	4.69835e-09	1.000000
rad10	2.82520e-09	1.000000	3.88751e-09	1.000000
rad14	1.51703e-09	1.000000	2.08744e-09	1.000000
rad3	8.79016e-10	1.000000	1.20954e-09	1.000000
rad4	5.63009e-10	1.000000	7.74705e-10	1.000000
rad2	4.00548e-10	1.000000	5.51158e-10	1.000000
rad5	3.07953e-10	1.000000	4.23747e-10	1.000000
rad1	9.24409e-11	1.000000	1.27200e-10	1.000000
rad27	4.98069e-11	1.000000	6.85347e-11	1.000000

10000.0000 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	1.56740e-51 (1.00)	1.56740e-51 (1.00)		
Formation of rad11	1.56740e-51 (1.000)	1.56740e-51 (1.000)		
Formation of rad6	3.73945e-60 (2.39e-09)	3.73945e-60 (2.39e-09)		
H-abstraction	1.53631e-76 (9.80e-26)	1.53631e-76 (9.80e-26)		
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.997566	0.997566	0.997566	0.997566

rad6	0.00231408	0.999880	0.00231408	0.999880
rad21	6.46779e-05	0.999945	6.46779e-05	0.999945
rad20	3.30722e-05	0.999978	3.30722e-05	0.999978
rad22	1.79249e-05	0.999996	1.79249e-05	0.999996
rad45	2.06010e-06	0.999998	2.06010e-06	0.999998
rad18	1.90512e-06	1.000000	1.90512e-06	1.000000
rad36	1.31939e-07	1.000000	1.31939e-07	1.000000
Indene+H	9.13293e-08	1.000000	9.13293e-08	1.000000
rad25	4.90801e-08	1.000000	4.90801e-08	1.000000
C2H2+PhCH2	1.84649e-08	1.000000	1.84649e-08	1.000000
rad23	1.38597e-08	1.000000	1.38597e-08	1.000000
rad13	7.95978e-09	1.000000	7.95978e-09	1.000000
rad7	3.21207e-09	1.000000	3.21207e-09	1.000000
PhCHCCH2+H	2.83232e-09	1.000000	2.83232e-09	1.000000
rad24	9.98569e-10	1.000000	9.98569e-10	1.000000
rad9	1.46761e-10	1.000000	1.46761e-10	1.000000
rad33	3.90252e-11	1.000000	3.90252e-11	1.000000
Phenyl+Allene	1.79849e-12	1.000000	0.000000	1.000000
rad3	3.54751e-13	1.000000	3.54751e-13	1.000000
rad4	1.87491e-13	1.000000	1.87491e-13	1.000000
rad30	2.13188e-14	1.000000	2.13188e-14	1.000000
rad28	1.11845e-14	1.000000	1.11845e-14	1.000000
rad15	3.13655e-15	1.000000	3.13655e-15	1.000000
rad8	1.16354e-16	1.000000	1.16354e-16	1.000000
rad2	5.98534e-17	1.000000	5.98534e-17	1.000000
rad38	2.74837e-17	1.000000	2.74837e-17	1.000000
PhCH2CCH+H	6.63890e-18	1.000000	6.63890e-18	1.000000
rad1	4.24554e-18	1.000000	4.24554e-18	1.000000
PhCCH+CH3	2.57386e-19	1.000000	2.57386e-19	1.000000
rad46	1.15504e-19	1.000000	1.15504e-19	1.000000
PAH9+H	5.59108e-20	1.000000	5.59108e-20	1.000000
rad60syn	3.67268e-20	1.000000	3.67268e-20	1.000000
rad35	3.25025e-20	1.000000	3.25025e-20	1.000000
rad14	2.20557e-20	1.000000	2.20557e-20	1.000000
rad60anti	3.57397e-21	1.000000	3.57397e-21	1.000000
rad10	7.92611e-22	1.000000	7.92611e-22	1.000000
PAH7+H	4.76483e-22	1.000000	4.76483e-22	1.000000
rad31	1.62277e-22	1.000000	1.62277e-22	1.000000
Ph+MeAc	7.34853e-24	1.000000	7.34853e-24	1.000000
rad27	8.59312e-25	1.000000	8.59312e-25	1.000000
PhCCCH3+H	2.55721e-25	1.000000	2.55721e-25	1.000000
Benzene+2-propynyl	9.80165e-26	1.000000	9.80165e-26	1.000000
rad39	1.71273e-26	1.000000	1.71273e-26	1.000000
rad26	1.00245e-26	1.000000	1.00245e-26	1.000000
PAH3+H	4.09021e-27	1.000000	4.09021e-27	1.000000
rad59	1.94213e-27	1.000000	1.94213e-27	1.000000
rad50	3.73903e-30	1.000000	3.73903e-30	1.000000
rad12	3.27380e-35	1.000000	3.27380e-35	1.000000
rad5	1.51474e-35	1.000000	1.51474e-35	1.000000
rad37	7.32678e-37	1.000000	7.32678e-37	1.000000
rad19syn	3.69362e-37	1.000000	3.69362e-37	1.000000
rad52	4.18865e-38	1.000000	4.18865e-38	1.000000
rad54	5.19433e-39	1.000000	5.19433e-39	1.000000
rad70	2.89428e-41	1.000000	2.89428e-41	1.000000
rad51	1.14336e-42	1.000000	1.14336e-42	1.000000
rad62	7.25294e-45	1.000000	7.25294e-45	1.000000
rad58	6.73912e-45	1.000000	6.73912e-45	1.000000
rad55	1.41764e-45	1.000000	1.41764e-45	1.000000
PhcycC3H3_A+H	2.44925e-46	1.000000	2.44925e-46	1.000000
rad34	9.82225e-47	1.000000	9.82225e-47	1.000000
rad43	9.43530e-47	1.000000	9.43530e-47	1.000000
PAH10+CH3	1.11872e-47	1.000000	1.11872e-47	1.000000
rad65	3.33534e-48	1.000000	3.33534e-48	1.000000
rad47	8.37420e-50	1.000000	8.37420e-50	1.000000
PAH1+H	1.10952e-52	1.000000	1.10952e-52	1.000000
rad42	1.60559e-55	1.000000	1.60559e-55	1.000000
rad41	1.03906e-58	1.000000	1.03906e-58	1.000000

10000.0000 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	5.03204e-39 (1.00)	5.03204e-39 (1.00)		
Formation of rad11	5.03203e-39 (1.000)	5.03203e-39 (1.000)		
Formation of rad6	9.92181e-45 (1.97e-06)	9.92181e-45 (1.97e-06)		
H-abstraction	3.33191e-55 (6.62e-17)	3.33191e-55 (6.62e-17)		
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.995082	0.995082	0.995082	0.995082

rad6	0.00467547	0.999757	0.00467547	0.999757
rad21	9.07211e-05	0.999848	9.07211e-05	0.999848
rad20	7.69156e-05	0.999925	7.69156e-05	0.999925
rad22	5.70066e-05	0.999982	5.70066e-05	0.999982
rad18	9.70994e-06	0.999992	9.70994e-06	0.999992
rad45	6.66559e-06	0.999998	6.66559e-06	0.999998
Indene+H	8.82660e-07	0.999999	8.82660e-07	0.999999
rad36	4.21044e-07	1.000000	4.21044e-07	1.000000
C2H2+PhCH2	1.06632e-07	1.000000	1.06632e-07	1.000000
rad25	9.96261e-08	1.000000	9.96261e-08	1.000000
rad23	9.40523e-08	1.000000	9.40523e-08	1.000000
rad13	2.46344e-08	1.000000	2.46344e-08	1.000000
rad7	1.31302e-08	1.000000	1.31302e-08	1.000000
PhCHCCH2+H	5.84913e-09	1.000000	5.84913e-09	1.000000
rad24	4.17415e-10	1.000000	4.17415e-10	1.000000
rad9	3.04791e-10	1.000000	3.04791e-10	1.000000
rad33	9.09181e-11	1.000000	9.09181e-11	1.000000
Phenyl+Allene	4.26967e-12	1.000000	0.000000	1.000000
rad3	2.50537e-12	1.000000	2.50537e-12	1.000000
rad4	1.30218e-12	1.000000	1.30218e-12	1.000000
rad30	2.51712e-13	1.000000	2.51712e-13	1.000000
rad28	8.02760e-14	1.000000	8.02760e-14	1.000000
rad15	3.74281e-14	1.000000	3.74281e-14	1.000000
rad2	8.78361e-16	1.000000	8.78361e-16	1.000000
rad8	7.66361e-16	1.000000	7.66361e-16	1.000000
rad38	2.02427e-16	1.000000	2.02427e-16	1.000000
Benzene+2-propynyl	6.62139e-17	1.000000	6.62139e-17	1.000000
rad1	5.96237e-17	1.000000	5.96237e-17	1.000000
PhCH2CCH+H	1.59946e-17	1.000000	1.59946e-17	1.000000
PhCCH+CH3	3.89475e-18	1.000000	3.89475e-18	1.000000
rad46	8.73535e-19	1.000000	8.73535e-19	1.000000
PAH9+H	8.24031e-19	1.000000	8.24031e-19	1.000000
rad35	4.77420e-19	1.000000	4.77420e-19	1.000000
rad60syn	4.71409e-19	1.000000	4.71409e-19	1.000000
rad14	3.29040e-19	1.000000	3.29040e-19	1.000000
rad60anti	4.51677e-20	1.000000	4.51677e-20	1.000000
rad10	2.38497e-20	1.000000	2.38497e-20	1.000000
PAH7+H	2.20552e-21	1.000000	2.20552e-21	1.000000
rad31	9.79780e-22	1.000000	9.79780e-22	1.000000
Ph+MeAc	1.18786e-22	1.000000	1.18786e-22	1.000000
rad27	2.59555e-23	1.000000	2.59555e-23	1.000000
PhCCCH3+H	7.94047e-24	1.000000	7.94047e-24	1.000000
rad39	2.69775e-25	1.000000	2.69775e-25	1.000000
rad26	4.45614e-26	1.000000	4.45614e-26	1.000000
PAH3+H	4.10728e-26	1.000000	4.10728e-26	1.000000
rad59	1.96147e-26	1.000000	1.96147e-26	1.000000
rad50	2.91214e-29	1.000000	2.91214e-29	1.000000
rad5	4.67777e-34	1.000000	4.67777e-34	1.000000
rad12	2.45425e-34	1.000000	2.45425e-34	1.000000
rad37	5.47194e-36	1.000000	5.47194e-36	1.000000
rad19syn	3.71043e-36	1.000000	3.71043e-36	1.000000
rad52	3.14292e-37	1.000000	3.14292e-37	1.000000
rad54	2.91409e-38	1.000000	2.91409e-38	1.000000
rad70	1.13521e-40	1.000000	1.13521e-40	1.000000
rad51	8.28016e-42	1.000000	8.28016e-42	1.000000
rad62	1.76748e-43	1.000000	1.76748e-43	1.000000
rad58	3.48990e-44	1.000000	3.48990e-44	1.000000
rad55	7.80873e-45	1.000000	7.80873e-45	1.000000
rad43	4.40776e-45	1.000000	4.40776e-45	1.000000
PhcycC3H3_A+H	2.44224e-45	1.000000	2.44224e-45	1.000000
rad34	3.38319e-46	1.000000	3.38319e-46	1.000000
PAH10+CH3	7.67779e-47	1.000000	7.67779e-47	1.000000
rad65	4.73435e-47	1.000000	4.73435e-47	1.000000
rad47	4.89371e-49	1.000000	4.89371e-49	1.000000
PAH1+H	1.29193e-51	1.000000	1.29193e-51	1.000000
rad42	3.17273e-54	1.000000	3.17273e-54	1.000000
rad41	3.58907e-57	1.000000	3.58907e-57	1.000000

10000.0000 Pa, 40.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	9.35697e-33	(1.00)	9.35697e-33	(1.00)
Formation of rad11	9.35644e-33	(1.000)	9.35644e-33	(1.000)
Formation of rad6	5.26139e-37	(5.62e-05)	5.26139e-37	(5.62e-05)
H-abstraction	1.44763e-44	(1.55e-12)	1.44763e-44	(1.55e-12)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.992593	0.992593	0.992593	0.992593

rad6	0.00704261	0.999636	0.00704261	0.999636
rad20	0.000110924	0.999747	0.000110924	0.999747
rad22	0.000107088	0.999854	0.000107088	0.999854
rad21	0.000106842	0.999960	0.000106842	0.999960
rad18	2.20442e-05	0.999983	2.20442e-05	0.999983
rad45	1.26575e-05	0.999995	1.26575e-05	0.999995
Indene+H	3.01170e-06	0.999998	3.01170e-06	0.999998
rad36	7.95490e-07	0.999999	7.95490e-07	0.999999
rad23	2.71359e-07	0.999999	2.71359e-07	0.999999
C2H2+PhCH2	2.71203e-07	1.000000	2.71203e-07	1.000000
rad25	1.51182e-07	1.000000	1.51182e-07	1.000000
rad13	4.40536e-08	1.000000	4.40536e-08	1.000000
rad7	3.00241e-08	1.000000	3.00241e-08	1.000000
PhCHCCH2+H	9.15002e-09	1.000000	9.15002e-09	1.000000
rad9	4.82311e-10	1.000000	4.82311e-10	1.000000
rad24	2.27919e-10	1.000000	2.27919e-10	1.000000
rad33	1.34406e-10	1.000000	1.34406e-10	1.000000
Phenyl+Allene	8.68363e-12	1.000000	0.000000	1.000000
rad3	7.62001e-12	1.000000	7.62001e-12	1.000000
rad4	3.93383e-12	1.000000	3.93383e-12	1.000000
Benzene+2-propynyl	1.54712e-12	1.000000	1.54712e-12	1.000000
rad30	9.63865e-13	1.000000	9.63865e-13	1.000000
rad28	2.52746e-13	1.000000	2.52746e-13	1.000000
rad15	1.45069e-13	1.000000	1.45069e-13	1.000000
rad2	4.24230e-15	1.000000	4.24230e-15	1.000000
rad8	2.36213e-15	1.000000	2.36213e-15	1.000000
rad38	6.22952e-16	1.000000	6.22952e-16	1.000000
rad1	2.83046e-16	1.000000	2.83046e-16	1.000000
PhCH2CCH+H	3.48148e-17	1.000000	3.48148e-17	1.000000
PhCCH+CH3	2.08658e-17	1.000000	2.08658e-17	1.000000
PAH9+H	3.78125e-18	1.000000	3.78125e-18	1.000000
rad46	2.77249e-18	1.000000	2.77249e-18	1.000000
rad35	2.18144e-18	1.000000	2.18144e-18	1.000000
rad60syn	2.09251e-18	1.000000	2.09251e-18	1.000000
rad14	1.68112e-18	1.000000	1.68112e-18	1.000000
rad60anti	2.08854e-19	1.000000	2.08854e-19	1.000000
rad10	1.82511e-19	1.000000	1.82511e-19	1.000000
PAH7+H	6.91165e-21	1.000000	6.91165e-21	1.000000
rad31	2.83198e-21	1.000000	2.83198e-21	1.000000
Ph+MeAc	9.39404e-22	1.000000	9.39404e-22	1.000000
rad27	2.06469e-22	1.000000	2.06469e-22	1.000000
PhCCCH3+H	6.93607e-23	1.000000	6.93607e-23	1.000000
rad39	1.80174e-24	1.000000	1.80174e-24	1.000000
rad26	1.99930e-25	1.000000	1.99930e-25	1.000000
PAH3+H	1.80763e-25	1.000000	1.80763e-25	1.000000
rad59	8.64987e-26	1.000000	8.64987e-26	1.000000
rad50	1.23405e-28	1.000000	1.23405e-28	1.000000
rad5	5.95424e-33	1.000000	5.95424e-33	1.000000
rad12	1.00518e-33	1.000000	1.00518e-33	1.000000
rad37	2.22598e-35	1.000000	2.22598e-35	1.000000
rad19syn	2.16337e-35	1.000000	2.16337e-35	1.000000
rad52	1.42739e-36	1.000000	1.42739e-36	1.000000
rad54	1.17406e-37	1.000000	1.17406e-37	1.000000
rad70	3.58980e-40	1.000000	3.58980e-40	1.000000
rad51	3.88683e-41	1.000000	3.88683e-41	1.000000
rad62	1.67217e-42	1.000000	1.67217e-42	1.000000
rad58	1.18318e-43	1.000000	1.18318e-43	1.000000
rad43	6.03669e-44	1.000000	6.03669e-44	1.000000
rad55	3.20366e-44	1.000000	3.20366e-44	1.000000
PhcycC3H3_A+H	1.40917e-44	1.000000	1.40917e-44	1.000000
rad34	1.01956e-45	1.000000	1.01956e-45	1.000000
PAH10+CH3	3.25275e-46	1.000000	3.25275e-46	1.000000
rad65	3.17883e-46	1.000000	3.17883e-46	1.000000
rad47	2.14728e-48	1.000000	2.14728e-48	1.000000
PAH1+H	8.17664e-51	1.000000	8.17664e-51	1.000000
rad42	2.74373e-53	1.000000	2.74373e-53	1.000000
rad41	4.36923e-56	1.000000	4.36923e-56	1.000000

10000.0000 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	5.52690e-29 (1.00)	5.52690e-29 (1.00)		
Formation of rad11	5.52459e-29 (1.000)	5.52459e-29 (1.000)		
Formation of rad6	2.30840e-32 (0.000418)	2.30840e-32 (0.000418)		
H-abstraction	3.35357e-38 (6.07e-10)	3.35357e-38 (6.07e-10)		
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.989791	0.989791	0.989791	0.989791

rad6	0.00972161	0.999513	0.00972161	0.999513
rad22	0.000165693	0.999678	0.000165693	0.999678
rad20	0.000136508	0.999815	0.000136508	0.999815
rad21	0.000118600	0.999933	0.000118600	0.999933
rad18	3.73889e-05	0.999971	3.73889e-05	0.999971
rad45	1.97643e-05	0.999991	1.97643e-05	0.999991
Indene+H	6.93073e-06	0.999997	6.93073e-06	0.999997
rad36	1.23841e-06	0.999999	1.23841e-06	0.999999
rad23	5.68950e-07	0.999999	5.68950e-07	0.999999
C2H2+PhCH2	5.13021e-07	1.000000	5.13021e-07	1.000000
rad25	2.05831e-07	1.000000	2.05831e-07	1.000000
rad13	6.70959e-08	1.000000	6.70959e-08	1.000000
rad7	5.85891e-08	1.000000	5.85891e-08	1.000000
PhCHCCH2+H	1.29693e-08	1.000000	1.29693e-08	1.000000
rad9	6.94446e-10	1.000000	6.94446e-10	1.000000
Benzene+2-propynyl	6.06773e-10	1.000000	6.06773e-10	1.000000
rad33	1.77725e-10	1.000000	1.77725e-10	1.000000
rad24	1.43943e-10	1.000000	1.43943e-10	1.000000
rad3	1.87149e-11	1.000000	1.87149e-11	1.000000
Phenyl+Allene	1.68879e-11	1.000000	0.000000	1.000000
rad4	9.62732e-12	1.000000	9.62732e-12	1.000000
rad30	2.44049e-12	1.000000	2.44049e-12	1.000000
rad28	6.67587e-13	1.000000	6.67587e-13	1.000000
rad15	3.72308e-13	1.000000	3.72308e-13	1.000000
rad2	1.60072e-14	1.000000	1.60072e-14	1.000000
rad8	5.63332e-15	1.000000	5.63332e-15	1.000000
rad38	1.39536e-15	1.000000	1.39536e-15	1.000000
rad1	1.05883e-15	1.000000	1.05883e-15	1.000000
PhCCH+CH3	9.93015e-17	1.000000	9.93015e-17	1.000000
PhCH2CCH+H	7.97331e-17	1.000000	7.97331e-17	1.000000
PAH9+H	1.12629e-17	1.000000	1.12629e-17	1.000000
rad14	7.21615e-18	1.000000	7.21615e-18	1.000000
rad35	6.46361e-18	1.000000	6.46361e-18	1.000000
rad46	6.44394e-18	1.000000	6.44394e-18	1.000000
rad60syn	6.41272e-18	1.000000	6.41272e-18	1.000000
rad10	1.06259e-18	1.000000	1.06259e-18	1.000000
rad60anti	6.96523e-19	1.000000	6.96523e-19	1.000000
PAH7+H	2.07560e-20	1.000000	2.07560e-20	1.000000
Ph+MeAc	8.47187e-21	1.000000	8.47187e-21	1.000000
rad31	6.83514e-21	1.000000	6.83514e-21	1.000000
rad27	1.31716e-21	1.000000	1.31716e-21	1.000000
PhCCCH3+H	5.31098e-22	1.000000	5.31098e-22	1.000000
rad39	1.29201e-23	1.000000	1.29201e-23	1.000000
rad26	1.28518e-24	1.000000	1.28518e-24	1.000000
PAH3+H	6.53050e-25	1.000000	6.53050e-25	1.000000
rad59	3.12443e-25	1.000000	3.12443e-25	1.000000
rad50	4.60899e-28	1.000000	4.60899e-28	1.000000
rad5	9.40005e-32	1.000000	9.40005e-32	1.000000
rad12	3.77472e-33	1.000000	3.77472e-33	1.000000
rad19syn	1.52582e-34	1.000000	1.52582e-34	1.000000
rad37	7.96920e-35	1.000000	7.96920e-35	1.000000
rad52	6.19425e-36	1.000000	6.19425e-36	1.000000
rad54	5.61745e-37	1.000000	5.61745e-37	1.000000
rad70	1.22506e-39	1.000000	1.22506e-39	1.000000
rad51	1.84089e-40	1.000000	1.84089e-40	1.000000
rad62	1.62490e-41	1.000000	1.62490e-41	1.000000
rad43	8.12147e-43	1.000000	8.12147e-43	1.000000
rad58	4.15427e-43	1.000000	4.15427e-43	1.000000
rad55	1.49472e-43	1.000000	1.49472e-43	1.000000
PhcycC3H3_A+H	8.64798e-44	1.000000	8.64798e-44	1.000000
rad34	3.49529e-45	1.000000	3.49529e-45	1.000000
rad65	1.88960e-45	1.000000	1.88960e-45	1.000000
PAH10+CH3	1.32422e-45	1.000000	1.32422e-45	1.000000
rad47	1.05312e-47	1.000000	1.05312e-47	1.000000
PAH1+H	5.24575e-50	1.000000	5.24575e-50	1.000000
rad42	2.31956e-52	1.000000	2.31956e-52	1.000000
rad41	4.97515e-55	1.000000	4.97515e-55	1.000000

10000.0000 Pa, 60.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.83429e-26	(1.00)	1.83429e-26	(1.00)
Formation of rad11	1.83139e-26	(0.998)	1.83139e-26	(0.998)
Formation of rad6	2.90471e-29	(0.00158)	2.90471e-29	(0.00158)
H-abstraction	5.71259e-34	(3.11e-08)	5.71259e-34	(3.11e-08)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.986152	0.986152	0.986152	0.986152

rad6	0.0132331	0.999385	0.0132331	0.999385
rad22	0.000231619	0.999617	0.000231619	0.999617
rad20	0.000155741	0.999772	0.000155741	0.999772
rad21	0.000127404	0.999900	0.000127404	0.999900
rad18	5.47012e-05	0.999955	5.47012e-05	0.999955
rad45	2.78705e-05	0.999982	2.78705e-05	0.999982
Indene+H	1.29941e-05	0.999995	1.29941e-05	0.999995
rad36	1.74256e-06	0.999997	1.74256e-06	0.999997
rad23	1.00979e-06	0.999998	1.00979e-06	0.999998
C2H2+PhCH2	8.35316e-07	0.999999	8.35316e-07	0.999999
rad25	2.64648e-07	0.999999	2.64648e-07	0.999999
rad7	1.12277e-07	0.999999	1.12277e-07	0.999999
rad13	9.80418e-08	0.999999	9.80418e-08	0.999999
Benzene+2-propynyl	3.11432e-08	0.999999	3.11432e-08	0.999999
PhCHCCH2+H	1.74767e-08	1.000000	1.74767e-08	1.000000
rad9	9.53048e-10	1.000000	9.53048e-10	1.000000
rad33	2.31878e-10	1.000000	2.31878e-10	1.000000
rad24	9.95830e-11	1.000000	9.95830e-11	1.000000
rad3	4.45367e-11	1.000000	4.45367e-11	1.000000
Phenyl+Allene	3.14541e-11	1.000000	0.000000	1.000000
rad4	2.28637e-11	1.000000	2.28637e-11	1.000000
rad30	4.99853e-12	1.000000	4.99853e-12	1.000000
rad28	1.75096e-12	1.000000	1.75096e-12	1.000000
rad15	7.73664e-13	1.000000	7.73664e-13	1.000000
rad2	5.76272e-14	1.000000	5.76272e-14	1.000000
rad8	1.17848e-14	1.000000	1.17848e-14	1.000000
rad1	3.79451e-15	1.000000	3.79451e-15	1.000000
rad38	2.65619e-15	1.000000	2.65619e-15	1.000000
PhCCH+CH3	4.56232e-16	1.000000	4.56232e-16	1.000000
PhCH2CCH+H	2.00252e-16	1.000000	2.00252e-16	1.000000
rad14	2.99551e-17	1.000000	2.99551e-17	1.000000
PAH9+H	2.68440e-17	1.000000	2.68440e-17	1.000000
rad60syn	1.62769e-17	1.000000	1.62769e-17	1.000000
rad35	1.53121e-17	1.000000	1.53121e-17	1.000000
rad46	1.27904e-17	1.000000	1.27904e-17	1.000000
rad10	5.63814e-18	1.000000	5.63814e-18	1.000000
rad60anti	1.97583e-18	1.000000	1.97583e-18	1.000000
PAH7+H	6.65195e-20	1.000000	6.65195e-20	1.000000
Ph+MeAc	6.08981e-20	1.000000	6.08981e-20	1.000000
rad31	1.62491e-20	1.000000	1.62491e-20	1.000000
rad27	7.59528e-21	1.000000	7.59528e-21	1.000000
PhCCCH3+H	3.59260e-21	1.000000	3.59260e-21	1.000000
rad39	8.10698e-23	1.000000	8.10698e-23	1.000000
rad26	9.38544e-24	1.000000	9.38544e-24	1.000000
PAH3+H	2.28092e-24	1.000000	2.28092e-24	1.000000
rad59	1.08931e-24	1.000000	1.08931e-24	1.000000
rad50	1.71475e-27	1.000000	1.71475e-27	1.000000
rad5	1.32651e-30	1.000000	1.32651e-30	1.000000
rad12	1.62313e-32	1.000000	1.62313e-32	1.000000
rad19syn	1.37458e-33	1.000000	1.37458e-33	1.000000
rad37	2.90532e-34	1.000000	2.90532e-34	1.000000
rad52	2.87479e-35	1.000000	2.87479e-35	1.000000
rad54	3.58761e-36	1.000000	3.58761e-36	1.000000
rad70	4.75749e-39	1.000000	4.75749e-39	1.000000
rad51	9.77072e-40	1.000000	9.77072e-40	1.000000
rad62	2.02857e-40	1.000000	2.02857e-40	1.000000
rad43	1.33979e-41	1.000000	1.33979e-41	1.000000
rad58	1.64291e-42	1.000000	1.64291e-42	1.000000
rad55	8.98539e-43	1.000000	8.98539e-43	1.000000
PhcycC3H3_A+H	6.67621e-43	1.000000	6.67621e-43	1.000000
rad34	1.41086e-44	1.000000	1.41086e-44	1.000000
rad65	1.17279e-44	1.000000	1.17279e-44	1.000000
PAH10+CH3	5.90400e-45	1.000000	5.90400e-45	1.000000
rad47	6.28612e-47	1.000000	6.28612e-47	1.000000
PAH1+H	4.08283e-49	1.000000	4.08283e-49	1.000000
rad42	2.49635e-51	1.000000	2.49635e-51	1.000000
rad41	7.30887e-54	1.000000	7.30887e-54	1.000000

10000.0000 Pa, 70.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.17336e-24	(1.00)	1.17336e-24	(1.00)
Formation of rad11	1.16857e-24	(0.996)	1.16857e-24	(0.996)
Formation of rad6	4.79505e-27	(0.00409)	4.79505e-27	(0.00409)
H-abstraction	5.89821e-31	(5.03e-07)	5.89821e-31	(5.03e-07)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.981136	0.981136	0.981136	0.981136

rad6	0.0181183	0.999254	0.0181183	0.999254
rad22	0.000304010	0.999558	0.000304010	0.999558
rad20	0.000170062	0.999728	0.000170062	0.999728
rad21	0.000133852	0.999862	0.000133852	0.999862
rad18	7.32159e-05	0.999935	7.32159e-05	0.999935
rad45	3.69013e-05	0.999972	3.69013e-05	0.999972
Indene+H	2.15001e-05	0.999993	2.15001e-05	0.999993
rad36	2.30333e-06	0.999996	2.30333e-06	0.999996
rad23	1.61782e-06	0.999997	1.61782e-06	0.999997
C2H2+PhCH2	1.24339e-06	0.999999	1.24339e-06	0.999999
Benzene+2-propynyl	5.02676e-07	0.999999	5.02676e-07	0.999999
rad25	3.28289e-07	0.999999	3.28289e-07	0.999999
rad7	2.13829e-07	1.000000	2.13829e-07	1.000000
rad13	1.41098e-07	1.000000	1.41098e-07	1.000000
PhCHCCH2+H	2.28369e-08	1.000000	2.28369e-08	1.000000
rad9	1.27045e-09	1.000000	1.27045e-09	1.000000
rad33	3.04568e-10	1.000000	3.04568e-10	1.000000
rad3	1.01808e-10	1.000000	1.01808e-10	1.000000
rad24	7.33636e-11	1.000000	7.33636e-11	1.000000
Phenyl+Allene	5.62956e-11	1.000000	0.000000	1.000000
rad4	5.22025e-11	1.000000	5.22025e-11	1.000000
rad30	9.01086e-12	1.000000	9.01086e-12	1.000000
rad28	4.36752e-12	1.000000	4.36752e-12	1.000000
rad15	1.41616e-12	1.000000	1.41616e-12	1.000000
rad2	1.86485e-13	1.000000	1.86485e-13	1.000000
rad8	2.27456e-14	1.000000	2.27456e-14	1.000000
rad1	1.22516e-14	1.000000	1.22516e-14	1.000000
rad38	4.58532e-15	1.000000	4.58532e-15	1.000000
PhCCH+CH3	1.76782e-15	1.000000	1.76782e-15	1.000000
PhCH2CCH+H	5.83303e-16	1.000000	5.83303e-16	1.000000
rad14	1.07891e-16	1.000000	1.07891e-16	1.000000
PAH9+H	5.59498e-17	1.000000	5.59498e-17	1.000000
rad60syn	3.68703e-17	1.000000	3.68703e-17	1.000000
rad35	3.16973e-17	1.000000	3.16973e-17	1.000000
rad10	2.47828e-17	1.000000	2.47828e-17	1.000000
rad46	2.31220e-17	1.000000	2.31220e-17	1.000000
rad60anti	5.05556e-18	1.000000	5.05556e-18	1.000000
Ph+MeAc	3.17486e-19	1.000000	3.17486e-19	1.000000
PAH7+H	2.38720e-19	1.000000	2.38720e-19	1.000000
rad31	3.74793e-20	1.000000	3.74793e-20	1.000000
rad27	3.52013e-20	1.000000	3.52013e-20	1.000000
PhCCCH3+H	1.87538e-20	1.000000	1.87538e-20	1.000000
rad39	3.86204e-22	1.000000	3.86204e-22	1.000000
rad26	5.66543e-23	1.000000	5.66543e-23	1.000000
PAH3+H	8.45751e-24	1.000000	8.45751e-24	1.000000
rad59	4.02463e-24	1.000000	4.02463e-24	1.000000
rad50	6.80550e-27	1.000000	6.80550e-27	1.000000
rad5	1.47772e-29	1.000000	1.47772e-29	1.000000
rad12	8.59656e-32	1.000000	8.59656e-32	1.000000
rad19syn	1.36300e-32	1.000000	1.36300e-32	1.000000
rad37	1.21812e-33	1.000000	1.21812e-33	1.000000
rad52	1.53517e-34	1.000000	1.53517e-34	1.000000
rad54	2.87174e-35	1.000000	2.87174e-35	1.000000
rad70	2.21253e-38	1.000000	2.21253e-38	1.000000
rad51	6.24918e-39	1.000000	6.24918e-39	1.000000
rad62	3.01246e-39	1.000000	3.01246e-39	1.000000
rad43	2.41910e-40	1.000000	2.41910e-40	1.000000
rad58	7.76330e-42	1.000000	7.76330e-42	1.000000
rad55	7.02881e-42	1.000000	7.02881e-42	1.000000
PhcycC3H3_A+H	6.41414e-42	1.000000	6.41414e-42	1.000000
rad65	8.45421e-44	1.000000	8.45421e-44	1.000000
rad34	6.97737e-44	1.000000	6.97737e-44	1.000000
PAH10+CH3	3.41766e-44	1.000000	3.41766e-44	1.000000
rad47	4.88388e-46	1.000000	4.88388e-46	1.000000
PAH1+H	3.99545e-48	1.000000	3.99545e-48	1.000000
rad42	3.77947e-50	1.000000	3.77947e-50	1.000000
rad41	1.52966e-52	1.000000	1.52966e-52	1.000000

10000.0000 Pa, 80.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	2.68112e-23	(1.00)	2.68112e-23	(1.00)
Formation of rad11	2.65890e-23	(0.992)	2.65890e-23	(0.992)
Formation of rad6	2.22189e-25	(0.00829)	2.22189e-25	(0.00829)
H-abstraction	1.05871e-28	(3.95e-06)	1.05871e-28	(3.95e-06)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.974373	0.974373	0.974373	0.974373

rad6	0.0247415	0.999115	0.0247415	0.999115
rad22	0.000382249	0.999497	0.000382249	0.999497
rad20	0.000180477	0.999677	0.000180477	0.999677
rad21	0.000138327	0.999816	0.000138327	0.999816
rad18	9.23539e-05	0.999908	9.23539e-05	0.999908
rad45	4.68122e-05	0.999955	4.68122e-05	0.999955
Indene+H	3.27235e-05	0.999988	3.27235e-05	0.999988
Benzene+2-propynyl	3.94877e-06	0.999992	3.94877e-06	0.999992
rad36	2.91808e-06	0.999994	2.91808e-06	0.999994
rad23	2.41963e-06	0.999997	2.41963e-06	0.999997
C2H2+PhCH2	1.74520e-06	0.999999	1.74520e-06	0.999999
rad25	3.97382e-07	0.999999	3.97382e-07	0.999999
rad7	3.91690e-07	0.999999	3.91690e-07	0.999999
rad13	1.98207e-07	1.000000	1.98207e-07	1.000000
PhCHCCH2+H	2.92556e-08	1.000000	2.92556e-08	1.000000
rad9	1.66239e-09	1.000000	1.66239e-09	1.000000
rad33	3.98332e-10	1.000000	3.98332e-10	1.000000
rad3	2.14534e-10	1.000000	2.14534e-10	1.000000
rad4	1.09932e-10	1.000000	1.09932e-10	1.000000
Phenyl+Allene	9.75736e-11	1.000000	0.000000	1.000000
rad24	5.66316e-11	1.000000	5.66316e-11	1.000000
rad30	1.49392e-11	1.000000	1.49392e-11	1.000000
rad28	9.85088e-12	1.000000	9.85088e-12	1.000000
rad15	2.38604e-12	1.000000	2.38604e-12	1.000000
rad2	5.20437e-13	1.000000	5.20437e-13	1.000000
rad8	4.16479e-14	1.000000	4.16479e-14	1.000000
rad1	3.41653e-14	1.000000	3.41653e-14	1.000000
rad38	7.42922e-15	1.000000	7.42922e-15	1.000000
PhCCH+CH3	5.65699e-15	1.000000	5.65699e-15	1.000000
PhCH2CCH+H	2.06214e-15	1.000000	2.06214e-15	1.000000
rad14	3.26117e-16	1.000000	3.26117e-16	1.000000
PAH9+H	1.06919e-16	1.000000	1.06919e-16	1.000000
rad10	8.86754e-17	1.000000	8.86754e-17	1.000000
rad60syn	7.76095e-17	1.000000	7.76095e-17	1.000000
rad35	6.01125e-17	1.000000	6.01125e-17	1.000000
rad46	3.94061e-17	1.000000	3.94061e-17	1.000000
rad60anti	1.20132e-17	1.000000	1.20132e-17	1.000000
Ph+MeAc	1.29112e-18	1.000000	1.29112e-18	1.000000
PAH7+H	9.47440e-19	1.000000	9.47440e-19	1.000000
rad27	1.30576e-19	1.000000	1.30576e-19	1.000000
rad31	8.02528e-20	1.000000	8.02528e-20	1.000000
PhCCCH3+H	7.72016e-20	1.000000	7.72016e-20	1.000000
rad39	1.45807e-21	1.000000	1.45807e-21	1.000000
rad26	2.71598e-22	1.000000	2.71598e-22	1.000000
PAH3+H	3.61520e-23	1.000000	3.61520e-23	1.000000
rad59	1.70870e-23	1.000000	1.70870e-23	1.000000
rad50	3.03276e-26	1.000000	3.03276e-26	1.000000
rad5	1.37273e-28	1.000000	1.37273e-28	1.000000
rad12	5.06177e-31	1.000000	5.06177e-31	1.000000
rad19syn	1.52334e-31	1.000000	1.52334e-31	1.000000
rad37	6.47189e-33	1.000000	6.47189e-33	1.000000
rad52	1.01989e-33	1.000000	1.01989e-33	1.000000
rad54	2.90883e-34	1.000000	2.90883e-34	1.000000
rad70	1.35489e-37	1.000000	1.35489e-37	1.000000
rad62	5.25807e-38	1.000000	5.25807e-38	1.000000
rad51	5.23621e-38	1.000000	5.23621e-38	1.000000
rad43	4.74890e-39	1.000000	4.74890e-39	1.000000
PhcycC3H3_A+H	7.82045e-41	1.000000	7.82045e-41	1.000000
rad55	7.35164e-41	1.000000	7.35164e-41	1.000000
rad58	4.83067e-41	1.000000	4.83067e-41	1.000000
rad65	7.92408e-43	1.000000	7.92408e-43	1.000000
rad34	4.61765e-43	1.000000	4.61765e-43	1.000000
PAH10+CH3	3.31939e-43	1.000000	3.31939e-43	1.000000
rad47	5.37044e-45	1.000000	5.37044e-45	1.000000
PAH1+H	5.11751e-47	1.000000	5.11751e-47	1.000000
rad42	8.43785e-49	1.000000	8.43785e-49	1.000000
rad41	4.61489e-51	1.000000	4.61489e-51	1.000000

10000.0000 Pa, 90.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	3.08379e-22	(1.00)	3.08379e-22	(1.00)
Formation of rad11	3.03962e-22	(0.986)	3.03962e-22	(0.986)
Formation of rad6	4.41076e-24	(0.0143)	4.41076e-24	(0.0143)
H-abstraction	5.92916e-27	(1.92e-05)	5.92916e-27	(1.92e-05)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.965733	0.965733	0.965733	0.965733

rad6	0.0332259	0.998959	0.0332259	0.998959
rad22	0.000465986	0.999425	0.000465986	0.999425
rad20	0.000187736	0.999613	0.000187736	0.999613
rad21	0.000141145	0.999754	0.000141145	0.999754
rad18	0.000111678	0.999866	0.000111678	0.999866
rad45	5.75922e-05	0.999923	5.75922e-05	0.999923
Indene+H	4.69472e-05	0.999970	4.69472e-05	0.999970
Benzene+2-propynyl	1.92269e-05	0.999990	1.92269e-05	0.999990
rad36	3.58633e-06	0.999993	3.58633e-06	0.999993
rad23	3.44667e-06	0.999997	3.44667e-06	0.999997
C2H2+PhCH2	2.35239e-06	0.999999	2.35239e-06	0.999999
rad7	6.75680e-07	1.000000	6.75680e-07	1.000000
rad25	4.72704e-07	1.000000	4.72704e-07	1.000000
rad13	2.68854e-07	1.000000	2.68854e-07	1.000000
PhCHCCH2+H	3.70080e-08	1.000000	3.70080e-08	1.000000
rad9	2.15026e-09	1.000000	2.15026e-09	1.000000
rad33	5.11561e-10	1.000000	5.11561e-10	1.000000
rad3	4.11911e-10	1.000000	4.11911e-10	1.000000
rad4	2.11014e-10	1.000000	2.11014e-10	1.000000
Phenyl+Allene	1.64978e-10	1.000000	0.000000	1.000000
rad24	4.53566e-11	1.000000	4.53566e-11	1.000000
rad30	2.33820e-11	1.000000	2.33820e-11	1.000000
rad28	1.99646e-11	1.000000	1.99646e-11	1.000000
rad15	3.79888e-12	1.000000	3.79888e-12	1.000000
rad2	1.26494e-12	1.000000	1.26494e-12	1.000000
rad1	8.30653e-14	1.000000	8.30653e-14	1.000000
rad8	7.36217e-14	1.000000	7.36217e-14	1.000000
PhCCH+CH3	1.54645e-14	1.000000	1.54645e-14	1.000000
rad38	1.15374e-14	1.000000	1.15374e-14	1.000000
PhCH2CCH+H	8.30075e-15	1.000000	8.30075e-15	1.000000
rad14	8.47099e-16	1.000000	8.47099e-16	1.000000
rad10	2.67463e-16	1.000000	2.67463e-16	1.000000
PAH9+H	1.92846e-16	1.000000	1.92846e-16	1.000000
rad60syn	1.55593e-16	1.000000	1.55593e-16	1.000000
rad35	1.07504e-16	1.000000	1.07504e-16	1.000000
rad46	6.46839e-17	1.000000	6.46839e-17	1.000000
rad60anti	2.69968e-17	1.000000	2.69968e-17	1.000000
Ph+MeAc	4.39712e-18	1.000000	4.39712e-18	1.000000
PAH7+H	3.97667e-18	1.000000	3.97667e-18	1.000000
rad27	4.05061e-19	1.000000	4.05061e-19	1.000000
PhCCCH3+H	2.65603e-19	1.000000	2.65603e-19	1.000000
rad31	1.57441e-19	1.000000	1.57441e-19	1.000000
rad39	4.64535e-21	1.000000	4.64535e-21	1.000000
rad26	1.08813e-21	1.000000	1.08813e-21	1.000000
PAH3+H	1.86991e-22	1.000000	1.86991e-22	1.000000
rad59	8.71452e-23	1.000000	8.71452e-23	1.000000
rad50	1.53669e-25	1.000000	1.53669e-25	1.000000
rad5	1.10689e-27	1.000000	1.10689e-27	1.000000
rad12	3.02720e-30	1.000000	3.02720e-30	1.000000
rad19syn	2.22920e-30	1.000000	2.22920e-30	1.000000
rad37	4.27716e-32	1.000000	4.27716e-32	1.000000
rad52	9.13966e-33	1.000000	9.13966e-33	1.000000
rad54	4.49066e-33	1.000000	4.49066e-33	1.000000
rad70	1.30796e-36	1.000000	1.30796e-36	1.000000
rad62	1.17485e-36	1.000000	1.17485e-36	1.000000
rad51	6.31664e-37	1.000000	6.31664e-37	1.000000
rad43	1.09359e-37	1.000000	1.09359e-37	1.000000
PhcycC3H3_A+H	1.42901e-39	1.000000	1.42901e-39	1.000000
rad55	1.21483e-39	1.000000	1.21483e-39	1.000000
rad58	4.74030e-40	1.000000	4.74030e-40	1.000000
rad65	1.09354e-41	1.000000	1.09354e-41	1.000000
PAH10+CH3	6.01645e-42	1.000000	6.01645e-42	1.000000
rad34	4.87968e-42	1.000000	4.87968e-42	1.000000
rad47	9.17354e-44	1.000000	9.17354e-44	1.000000
PAH1+H	1.01700e-45	1.000000	1.01700e-45	1.000000
rad42	2.99178e-47	1.000000	2.99178e-47	1.000000
rad41	2.08593e-49	1.000000	2.08593e-49	1.000000

10000.0000 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14498e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.955275	0.955275	0.955275	0.955275

rad6	0.0434886	0.998764	0.0434886	0.998764
rad22	0.000555128	0.999319	0.000555128	0.999319
rad20	0.000192428	0.999511	0.000192428	0.999511
rad21	0.000142578	0.999654	0.000142578	0.999654
rad18	0.000130860	0.999785	0.000130860	0.999785
rad45	6.92658e-05	0.999854	6.92658e-05	0.999854
Benzene+2-propynyl	6.70630e-05	0.999921	6.70630e-05	0.999921
Indene+H	6.44897e-05	0.999985	6.44897e-05	0.999985
rad23	4.73778e-06	0.999990	4.73778e-06	0.999990
rad36	4.30988e-06	0.999994	4.30988e-06	0.999994
C2H2+PhCH2	3.08122e-06	0.999997	3.08122e-06	0.999997
rad7	1.09406e-06	0.999999	1.09406e-06	0.999999
rad25	5.55227e-07	0.999999	5.55227e-07	0.999999
rad13	3.50873e-07	0.999999	3.50873e-07	0.999999
PhCHCCH2+H	4.64635e-08	1.000000	4.64635e-08	1.000000
rad9	2.76302e-09	1.000000	2.76302e-09	1.000000
rad3	7.26524e-10	1.000000	7.26524e-10	1.000000
rad33	6.40323e-10	1.000000	6.40323e-10	1.000000
rad4	3.72191e-10	1.000000	3.72191e-10	1.000000
Phenyl+Allene	2.73600e-10	1.000000	0.000000	1.000000
rad24	3.74525e-11	1.000000	3.74525e-11	1.000000
rad28	3.68696e-11	1.000000	3.68696e-11	1.000000
rad30	3.51355e-11	1.000000	3.51355e-11	1.000000
rad15	5.81311e-12	1.000000	5.81311e-12	1.000000
rad2	2.74635e-12	1.000000	2.74635e-12	1.000000
rad1	1.80551e-13	1.000000	1.80551e-13	1.000000
rad8	1.27070e-13	1.000000	1.27070e-13	1.000000
PhCCH+CH3	3.75068e-14	1.000000	3.75068e-14	1.000000
PhCH2CCH+H	3.32745e-14	1.000000	3.32745e-14	1.000000
rad38	1.74157e-14	1.000000	1.74157e-14	1.000000
rad14	1.95423e-15	1.000000	1.95423e-15	1.000000
rad10	7.07738e-16	1.000000	7.07738e-16	1.000000
PAH9+H	3.34728e-16	1.000000	3.34728e-16	1.000000
rad60syn	3.01705e-16	1.000000	3.01705e-16	1.000000
rad35	1.84840e-16	1.000000	1.84840e-16	1.000000
rad46	1.03745e-16	1.000000	1.03745e-16	1.000000
rad60anti	5.80921e-17	1.000000	5.80921e-17	1.000000
PAH7+H	1.66982e-17	1.000000	1.66982e-17	1.000000
Ph+MeAc	1.31950e-17	1.000000	1.31950e-17	1.000000
rad27	1.09740e-18	1.000000	1.09740e-18	1.000000
PhCCCH3+H	8.02741e-19	1.000000	8.02741e-19	1.000000
rad31	2.85068e-19	1.000000	2.85068e-19	1.000000
rad39	1.31143e-20	1.000000	1.31143e-20	1.000000
rad26	3.84964e-21	1.000000	3.84964e-21	1.000000
PAH3+H	1.11270e-21	1.000000	1.11270e-21	1.000000
rad59	5.05451e-22	1.000000	5.05451e-22	1.000000
rad50	8.39682e-25	1.000000	8.39682e-25	1.000000
rad5	7.84941e-27	1.000000	7.84941e-27	1.000000
rad19syn	4.56997e-29	1.000000	4.56997e-29	1.000000
rad12	1.77973e-29	1.000000	1.77973e-29	1.000000
rad37	3.10657e-31	1.000000	3.10657e-31	1.000000
rad54	1.36046e-31	1.000000	1.36046e-31	1.000000
rad52	1.13894e-31	1.000000	1.13894e-31	1.000000
rad62	3.60830e-35	1.000000	3.60830e-35	1.000000
rad70	2.56754e-35	1.000000	2.56754e-35	1.000000
rad51	1.16802e-35	1.000000	1.16802e-35	1.000000
rad43	3.07387e-36	1.000000	3.07387e-36	1.000000
PhcycC3H3_A+H	5.12144e-38	1.000000	5.12144e-38	1.000000
rad55	4.26862e-38	1.000000	4.26862e-38	1.000000
rad58	9.45282e-39	1.000000	9.45282e-39	1.000000
rad65	2.42868e-40	1.000000	2.42868e-40	1.000000
PAH10+CH3	1.73859e-40	1.000000	1.73859e-40	1.000000
rad34	1.06315e-40	1.000000	1.06315e-40	1.000000
rad47	2.57686e-42	1.000000	2.57686e-42	1.000000
PAH1+H	4.17482e-44	1.000000	4.17482e-44	1.000000
rad42	1.78771e-45	1.000000	1.78771e-45	1.000000
rad41	1.46588e-47	1.000000	1.46588e-47	1.000000

10000.0000 Pa, 110.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.09987e-20	(1.00)	1.09987e-20	(1.00)
Formation of rad11	1.06527e-20	(0.969)	1.06527e-20	(0.969)
Formation of rad6	3.44008e-22	(0.0313)	3.44008e-22	(0.0313)
H-abstraction	2.02040e-24	(0.000184)	2.02040e-24	(0.000184)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.943180	0.943180	0.943180	0.943180

rad6	0.0553131	0.998493	0.0553131	0.998493
rad22	0.000649821	0.999143	0.000649821	0.999143
rad20	0.000195028	0.999338	0.000195028	0.999338
Benzene+2-propynyl	0.000183695	0.999521	0.000183695	0.999521
rad18	0.000149653	0.999671	0.000149653	0.999671
rad21	0.000142864	0.999814	0.000142864	0.999814
Indene+H	8.57256e-05	0.999900	8.57256e-05	0.999900
rad45	8.18906e-05	0.999982	8.18906e-05	0.999982
rad23	6.34177e-06	0.999988	6.34177e-06	0.999988
rad36	5.09267e-06	0.999993	5.09267e-06	0.999993
C2H2+PhCH2	3.95354e-06	0.999997	3.95354e-06	0.999997
rad7	1.67236e-06	0.999999	1.67236e-06	0.999999
rad25	6.46118e-07	0.999999	6.46118e-07	0.999999
rad13	4.41372e-07	1.000000	4.41372e-07	1.000000
PhCHCCH2+H	5.81130e-08	1.000000	5.81130e-08	1.000000
rad9	3.53976e-09	1.000000	3.53976e-09	1.000000
rad3	1.19360e-09	1.000000	1.19360e-09	1.000000
rad33	7.79908e-10	1.000000	7.79908e-10	1.000000
rad4	6.11628e-10	1.000000	6.11628e-10	1.000000
Phenyl+Allene	4.46763e-10	1.000000	0.000000	1.000000
rad28	6.31452e-11	1.000000	6.31452e-11	1.000000
rad30	5.12738e-11	1.000000	5.12738e-11	1.000000
rad24	3.17501e-11	1.000000	3.17501e-11	1.000000
rad15	8.64835e-12	1.000000	8.64835e-12	1.000000
rad2	5.45889e-12	1.000000	5.45889e-12	1.000000
rad1	3.59540e-13	1.000000	3.59540e-13	1.000000
rad8	2.15727e-13	1.000000	2.15727e-13	1.000000
PhCH2CCH+H	1.22062e-13	1.000000	1.22062e-13	1.000000
PhCCH+CH3	8.32156e-14	1.000000	8.32156e-14	1.000000
rad38	2.58072e-14	1.000000	2.58072e-14	1.000000
rad14	4.11860e-15	1.000000	4.11860e-15	1.000000
rad10	1.69792e-15	1.000000	1.69792e-15	1.000000
rad60syn	5.71247e-16	1.000000	5.71247e-16	1.000000
PAH9+H	5.66818e-16	1.000000	5.66818e-16	1.000000
rad35	3.09756e-16	1.000000	3.09756e-16	1.000000
rad46	1.64232e-16	1.000000	1.64232e-16	1.000000
rad60anti	1.20737e-16	1.000000	1.20737e-16	1.000000
PAH7+H	6.65696e-17	1.000000	6.65696e-17	1.000000
Ph+MeAc	3.61464e-17	1.000000	3.61464e-17	1.000000
rad27	2.68569e-18	1.000000	2.68569e-18	1.000000
PhCCCH3+H	2.21275e-18	1.000000	2.21275e-18	1.000000
rad31	4.82820e-19	1.000000	4.82820e-19	1.000000
rad39	3.39808e-20	1.000000	3.39808e-20	1.000000
rad26	1.25488e-20	1.000000	1.25488e-20	1.000000
PAH3+H	6.71033e-21	1.000000	6.71033e-21	1.000000
rad59	2.94121e-21	1.000000	2.94121e-21	1.000000
rad50	4.53943e-24	1.000000	4.53943e-24	1.000000
rad5	4.92721e-26	1.000000	4.92721e-26	1.000000
rad19syn	1.03826e-27	1.000000	1.03826e-27	1.000000
rad12	1.00784e-28	1.000000	1.00784e-28	1.000000
rad54	5.72411e-30	1.000000	5.72411e-30	1.000000
rad37	2.21826e-30	1.000000	2.21826e-30	1.000000
rad52	1.75570e-30	1.000000	1.75570e-30	1.000000
rad62	1.37664e-33	1.000000	1.37664e-33	1.000000
rad70	1.10542e-33	1.000000	1.10542e-33	1.000000
rad51	3.13617e-34	1.000000	3.13617e-34	1.000000
rad43	9.59219e-35	1.000000	9.59219e-35	1.000000
PhcycC3H3_A+H	3.63838e-36	1.000000	3.63838e-36	1.000000
rad55	3.31671e-36	1.000000	3.31671e-36	1.000000
rad58	4.12253e-37	1.000000	4.12253e-37	1.000000
rad65	8.35418e-39	1.000000	8.35418e-39	1.000000
PAH10+CH3	6.35557e-39	1.000000	6.35557e-39	1.000000
rad34	5.17734e-39	1.000000	5.17734e-39	1.000000
rad47	1.12258e-40	1.000000	1.12258e-40	1.000000
PAH1+H	3.61812e-42	1.000000	3.61812e-42	1.000000
rad42	1.65291e-43	1.000000	1.65291e-43	1.000000
rad41	1.47426e-45	1.000000	1.47426e-45	1.000000

10000.0000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)		
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)		
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)		
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)		
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.929676	0.929676	0.929676	0.929676

rad6	0.0684175	0.998094	0.0684175	0.998094
rad22	0.000750420	0.998844	0.000750420	0.998844
Benzene+2-propynyl	0.000420064	0.999264	0.000420064	0.999264
rad20	0.000195922	0.999460	0.000195922	0.999460
rad18	0.000167863	0.999628	0.000167863	0.999628
rad21	0.000142206	0.999770	0.000142206	0.999770
Indene+H	0.000111103	0.999881	0.000111103	0.999881
rad45	9.55553e-05	0.999977	9.55553e-05	0.999977
rad23	8.32048e-06	0.999985	8.32048e-06	0.999985
rad36	5.94066e-06	0.999991	5.94066e-06	0.999991
C2H2+PhCH2	4.99788e-06	0.999996	4.99788e-06	0.999996
rad7	2.43360e-06	0.999999	2.43360e-06	0.999999
rad25	7.46718e-07	0.999999	7.46718e-07	0.999999
rad13	5.37396e-07	1.000000	5.37396e-07	1.000000
PhCHCCH2+H	7.26050e-08	1.000000	7.26050e-08	1.000000
rad9	4.53287e-09	1.000000	4.53287e-09	1.000000
rad3	1.85138e-09	1.000000	1.85138e-09	1.000000
rad4	9.49137e-10	1.000000	9.49137e-10	1.000000
rad33	9.25791e-10	1.000000	9.25791e-10	1.000000
Phenyl+Allene	7.20329e-10	1.000000	0.000000	1.000000
rad28	1.01882e-10	1.000000	1.01882e-10	1.000000
rad30	7.32500e-11	1.000000	7.32500e-11	1.000000
rad24	2.75518e-11	1.000000	2.75518e-11	1.000000
rad15	1.26101e-11	1.000000	1.26101e-11	1.000000
rad2	1.01361e-11	1.000000	1.01361e-11	1.000000
rad1	6.69240e-13	1.000000	6.69240e-13	1.000000
PhCH2CCH+H	4.00225e-13	1.000000	4.00225e-13	1.000000
rad8	3.61964e-13	1.000000	3.61964e-13	1.000000
PhCCH+CH3	1.72871e-13	1.000000	1.72871e-13	1.000000
rad38	3.78112e-14	1.000000	3.78112e-14	1.000000
rad14	8.10490e-15	1.000000	8.10490e-15	1.000000
rad10	3.78790e-15	1.000000	3.78790e-15	1.000000
rad60syn	1.06226e-15	1.000000	1.06226e-15	1.000000
PAH9+H	9.45881e-16	1.000000	9.45881e-16	1.000000
rad35	5.11081e-16	1.000000	5.11081e-16	1.000000
rad46	2.58474e-16	1.000000	2.58474e-16	1.000000
PAH7+H	2.44232e-16	1.000000	2.44232e-16	1.000000
rad60anti	2.43861e-16	1.000000	2.43861e-16	1.000000
Ph+MeAc	9.26669e-17	1.000000	9.26669e-17	1.000000
rad27	6.08759e-18	1.000000	6.08759e-18	1.000000
PhCCCH3+H	5.71887e-18	1.000000	5.71887e-18	1.000000
rad31	7.75186e-19	1.000000	7.75186e-19	1.000000
rad39	8.28744e-20	1.000000	8.28744e-20	1.000000
rad26	3.87363e-20	1.000000	3.87363e-20	1.000000
PAH3+H	3.71074e-20	1.000000	3.71074e-20	1.000000
rad59	1.56102e-20	1.000000	1.56102e-20	1.000000
rad50	2.28080e-23	1.000000	2.28080e-23	1.000000
rad5	2.76514e-25	1.000000	2.76514e-25	1.000000
rad19syn	1.98500e-26	1.000000	1.98500e-26	1.000000
rad12	5.40528e-28	1.000000	5.40528e-28	1.000000
rad54	1.94618e-28	1.000000	1.94618e-28	1.000000
rad52	2.69149e-29	1.000000	2.69149e-29	1.000000
rad37	1.48081e-29	1.000000	1.48081e-29	1.000000
rad70	8.41641e-32	1.000000	8.41641e-32	1.000000
rad62	5.03066e-32	1.000000	5.03066e-32	1.000000
rad51	9.81103e-33	1.000000	9.81103e-33	1.000000
rad43	2.77943e-33	1.000000	2.77943e-33	1.000000
rad55	4.30076e-34	1.000000	4.30076e-34	1.000000
PhcycC3H3_A+H	3.58361e-34	1.000000	3.58361e-34	1.000000
rad58	3.15276e-35	1.000000	3.15276e-35	1.000000
rad34	4.60680e-37	1.000000	4.60680e-37	1.000000
rad65	3.73371e-37	1.000000	3.73371e-37	1.000000
PAH10+CH3	2.31729e-37	1.000000	2.31729e-37	1.000000
rad47	6.39870e-39	1.000000	6.39870e-39	1.000000
PAH1+H	4.73974e-40	1.000000	4.73974e-40	1.000000
rad42	1.90420e-41	1.000000	1.90420e-41	1.000000
rad41	1.73500e-43	1.000000	1.73500e-43	1.000000

10000.0000 Pa, 130.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.33719e-19	(1.00)	1.33719e-19	(1.00)
Formation of rad11	1.26517e-19	(0.946)	1.26517e-19	(0.946)
Formation of rad6	7.08974e-21	(0.0530)	7.08974e-21	(0.0530)
H-abstraction	1.11864e-22	(0.000837)	1.11864e-22	(0.000837)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.914998	0.914998	0.914998	0.914998

rad6	0.0825057	0.997504	0.0825057	0.997504
rad22	0.000857454	0.998361	0.000857454	0.998361
Benzene+2-propynyl	0.000836559	0.999198	0.000836559	0.999198
rad20	0.000195426	0.999393	0.000195426	0.999393
rad18	0.000185336	0.999578	0.000185336	0.999578
Indene+H	0.000141160	0.999720	0.000141160	0.999720
rad21	0.000140779	0.999860	0.000140779	0.999860
rad45	0.000110377	0.999971	0.000110377	0.999971
rad23	1.07522e-05	0.999981	1.07522e-05	0.999981
rad36	6.86166e-06	0.999988	6.86166e-06	0.999988
C2H2+PhCH2	6.25084e-06	0.999995	6.25084e-06	0.999995
rad7	3.39912e-06	0.999998	3.39912e-06	0.999998
rad25	8.58506e-07	0.999999	8.58506e-07	0.999999
rad13	6.36315e-07	0.999999	6.36315e-07	0.999999
PhCHCCH2+H	9.07949e-08	1.000000	9.07949e-08	1.000000
rad9	5.81265e-09	1.000000	5.81265e-09	1.000000
rad3	2.74250e-09	1.000000	2.74250e-09	1.000000
rad4	1.40691e-09	1.000000	1.40691e-09	1.000000
Phenyl+Allene	1.14920e-09	1.000000	0.000000	1.000000
rad33	1.07411e-09	1.000000	1.07411e-09	1.000000
rad28	1.56853e-10	1.000000	1.56853e-10	1.000000
rad30	1.03032e-10	1.000000	1.03032e-10	1.000000
rad24	2.44214e-11	1.000000	2.44214e-11	1.000000
rad15	1.81233e-11	1.000000	1.81233e-11	1.000000
rad2	1.78615e-11	1.000000	1.78615e-11	1.000000
rad1	1.18290e-12	1.000000	1.18290e-12	1.000000
PhCH2CCH+H	1.17892e-12	1.000000	1.17892e-12	1.000000
rad8	6.02078e-13	1.000000	6.02078e-13	1.000000
PhCCH+CH3	3.42182e-13	1.000000	3.42182e-13	1.000000
rad38	5.50700e-14	1.000000	5.50700e-14	1.000000
rad14	1.51402e-14	1.000000	1.51402e-14	1.000000
rad10	8.01109e-15	1.000000	8.01109e-15	1.000000
rad60syn	1.94670e-15	1.000000	1.94670e-15	1.000000
PAH9+H	1.56731e-15	1.000000	1.56731e-15	1.000000
rad35	8.36637e-16	1.000000	8.36637e-16	1.000000
PAH7+H	8.17280e-16	1.000000	8.17280e-16	1.000000
rad60anti	4.80709e-16	1.000000	4.80709e-16	1.000000
rad46	4.06553e-16	1.000000	4.06553e-16	1.000000
Ph+MeAc	2.26276e-16	1.000000	2.26276e-16	1.000000
PhCCCH3+H	1.41441e-17	1.000000	1.41441e-17	1.000000
rad27	1.30154e-17	1.000000	1.30154e-17	1.000000
rad31	1.19335e-18	1.000000	1.19335e-18	1.000000
rad39	1.93717e-19	1.000000	1.93717e-19	1.000000
PAH3+H	1.80616e-19	1.000000	1.80616e-19	1.000000
rad26	1.14882e-19	1.000000	1.14882e-19	1.000000
rad59	7.28112e-20	1.000000	7.28112e-20	1.000000
rad50	1.03854e-22	1.000000	1.03854e-22	1.000000
rad5	1.40583e-24	1.000000	1.40583e-24	1.000000
rad19syn	2.87858e-25	1.000000	2.87858e-25	1.000000
rad54	4.51114e-27	1.000000	4.51114e-27	1.000000
rad12	2.72958e-27	1.000000	2.72958e-27	1.000000
rad52	3.52324e-28	1.000000	3.52324e-28	1.000000
rad37	9.16091e-29	1.000000	9.16091e-29	1.000000
rad70	8.56612e-30	1.000000	8.56612e-30	1.000000
rad62	1.45297e-30	1.000000	1.45297e-30	1.000000
rad51	2.66753e-31	1.000000	2.66753e-31	1.000000
rad43	6.57895e-32	1.000000	6.57895e-32	1.000000
rad55	3.00284e-32	1.000000	3.00284e-32	1.000000
PhcycC3H3_A+H	2.46901e-32	1.000000	2.46901e-32	1.000000
rad58	3.18587e-33	1.000000	3.18587e-33	1.000000
rad34	5.83841e-35	1.000000	5.83841e-35	1.000000
rad65	1.65024e-35	1.000000	1.65024e-35	1.000000
PAH10+CH3	7.11231e-36	1.000000	7.11231e-36	1.000000
rad47	3.91485e-37	1.000000	3.91485e-37	1.000000
PAH1+H	5.97943e-38	1.000000	5.97943e-38	1.000000
rad42	2.06107e-39	1.000000	2.06107e-39	1.000000
rad41	1.85115e-41	1.000000	1.85115e-41	1.000000

10000.0000 Pa, 140.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	3.59582e-19	(1.00)	3.59582e-19	(1.00)
Formation of rad11	3.35703e-19	(0.934)	3.35703e-19	(0.934)
Formation of rad6	2.33415e-20	(0.0649)	2.33415e-20	(0.0649)
H-abstraction	5.37685e-22	(0.00150)	5.37685e-22	(0.00150)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.899360	0.899360	0.899360	0.899360

rad6	0.0972994	0.996660	0.0972994	0.996660
Benzene+2-propynyl	0.00149531	0.998155	0.00149531	0.998155
rad22	0.000971604	0.999126	0.000971604	0.999126
rad18	0.000201939	0.999328	0.000201939	0.999328
rad20	0.000193800	0.999522	0.000193800	0.999522
Indene+H	0.000176534	0.999699	0.000176534	0.999699
rad21	0.000138727	0.999837	0.000138727	0.999837
rad45	0.000126498	0.999964	0.000126498	0.999964
rad23	1.37359e-05	0.999978	1.37359e-05	0.999978
rad36	7.86524e-06	0.999986	7.86524e-06	0.999986
C2H2+PhCH2	7.75884e-06	0.999993	7.75884e-06	0.999993
rad7	4.58995e-06	0.999998	4.58995e-06	0.999998
rad25	9.83057e-07	0.999999	9.83058e-07	0.999999
rad13	7.35980e-07	1.000000	7.35980e-07	1.000000
PhCHCCH2+H	1.13812e-07	1.000000	1.13812e-07	1.000000
rad9	7.47337e-09	1.000000	7.47337e-09	1.000000
rad3	3.91606e-09	1.000000	3.91606e-09	1.000000
rad4	2.01063e-09	1.000000	2.01063e-09	1.000000
Phenyl+Allene	1.81699e-09	1.000000	0.000000	1.000000
rad33	1.22186e-09	1.000000	1.22186e-09	1.000000
rad28	2.32770e-10	1.000000	2.32770e-10	1.000000
rad30	1.43279e-10	1.000000	1.43279e-10	1.000000
rad2	3.02400e-11	1.000000	3.02400e-11	1.000000
rad15	2.57785e-11	1.000000	2.57785e-11	1.000000
rad24	2.20747e-11	1.000000	2.20747e-11	1.000000
PhCH2CCH+H	3.16238e-12	1.000000	3.16238e-12	1.000000
rad1	2.00986e-12	1.000000	2.00986e-12	1.000000
rad8	9.94647e-13	1.000000	9.94647e-13	1.000000
PhCCH+CH3	6.53928e-13	1.000000	6.53928e-13	1.000000
rad38	8.00528e-14	1.000000	8.00528e-14	1.000000
rad14	2.71820e-14	1.000000	2.71820e-14	1.000000
rad10	1.63006e-14	1.000000	1.63006e-14	1.000000
rad60syn	3.52251e-15	1.000000	3.52251e-15	1.000000
PAH9+H	2.59347e-15	1.000000	2.59347e-15	1.000000
PAH7+H	2.50409e-15	1.000000	2.50409e-15	1.000000
rad35	1.36680e-15	1.000000	1.36680e-15	1.000000
rad60anti	9.27549e-16	1.000000	9.27549e-16	1.000000
rad46	6.41451e-16	1.000000	6.41451e-16	1.000000
Ph+MeAc	5.32874e-16	1.000000	5.32874e-16	1.000000
PhCCCH3+H	3.39808e-17	1.000000	3.39808e-17	1.000000
rad27	2.65974e-17	1.000000	2.65974e-17	1.000000
rad31	1.77799e-18	1.000000	1.77799e-18	1.000000
PAH3+H	7.70387e-19	1.000000	7.70387e-19	1.000000
rad39	4.39645e-19	1.000000	4.39645e-19	1.000000
rad26	3.29503e-19	1.000000	3.29503e-19	1.000000
rad59	2.97762e-19	1.000000	2.97762e-19	1.000000
rad50	4.27808e-22	1.000000	4.27808e-22	1.000000
rad5	6.56527e-24	1.000000	6.56527e-24	1.000000
rad19syn	3.16249e-24	1.000000	3.16249e-24	1.000000
rad54	7.21309e-26	1.000000	7.21309e-26	1.000000
rad12	1.30451e-26	1.000000	1.30451e-26	1.000000
rad52	3.73377e-27	1.000000	3.73377e-27	1.000000
rad37	5.29975e-28	1.000000	5.29975e-28	1.000000
rad70	4.31220e-28	1.000000	4.31220e-28	1.000000
rad62	3.12774e-29	1.000000	3.12774e-29	1.000000
rad51	5.57466e-30	1.000000	5.57466e-30	1.000000
rad55	1.22876e-30	1.000000	1.22876e-30	1.000000
rad43	1.21828e-30	1.000000	1.21828e-30	1.000000
PhcycC3H3_A+H	1.07999e-30	1.000000	1.07999e-30	1.000000
rad58	2.00123e-31	1.000000	2.00123e-31	1.000000
rad34	8.04159e-33	1.000000	8.04159e-33	1.000000
rad65	5.47314e-34	1.000000	5.47314e-34	1.000000
PAH10+CH3	1.74481e-34	1.000000	1.74481e-34	1.000000
rad47	2.10283e-35	1.000000	2.10283e-35	1.000000
PAH1+H	7.03773e-36	1.000000	7.03773e-36	1.000000
rad42	2.33709e-37	1.000000	2.33709e-37	1.000000
rad41	1.85255e-39	1.000000	1.85255e-39	1.000000

10000.0000 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.51464e-19 (1.00)	8.51464e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83711e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56651e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.882946	0.882946	0.882946	0.882946

rad6	0.112556	0.995503	0.112556	0.995503
Benzene+2-propynyl	0.00245244	0.997955	0.00245244	0.997955
rad22	0.00109367	0.999049	0.00109367	0.999049
Indene+H	0.000217983	0.999267	0.000217983	0.999267
rad18	0.000217555	0.999484	0.000217555	0.999484
rad20	0.000191255	0.999675	0.000191255	0.999675
rad45	0.000144086	0.999820	0.000144086	0.999820
rad21	0.000136171	0.999956	0.000136171	0.999956
rad23	1.73968e-05	0.999973	1.73968e-05	0.999973
C2H2+PhCH2	9.58042e-06	0.999983	9.58042e-06	0.999983
rad36	8.96275e-06	0.999992	8.96275e-06	0.999992
rad7	6.02799e-06	0.999998	6.02799e-06	0.999998
rad25	1.12199e-06	0.999999	1.12199e-06	0.999999
rad13	8.34756e-07	1.000000	8.34756e-07	1.000000
PhCHCCH2+H	1.43148e-07	1.000000	1.43148e-07	1.000000
rad9	9.64134e-09	1.000000	9.64134e-09	1.000000
rad3	5.43032e-09	1.000000	5.43032e-09	1.000000
Phenyl+Allene	2.85037e-09	1.000000	0.000000	1.000000
rad4	2.79093e-09	1.000000	2.79093e-09	1.000000
rad33	1.36681e-09	1.000000	1.36681e-09	1.000000
rad28	3.35635e-10	1.000000	3.35635e-10	1.000000
rad30	1.97576e-10	1.000000	1.97576e-10	1.000000
rad2	4.96605e-11	1.000000	4.96605e-11	1.000000
rad15	3.63928e-11	1.000000	3.63928e-11	1.000000
rad24	2.03216e-11	1.000000	2.03216e-11	1.000000
PhCH2CCH+H	7.83576e-12	1.000000	7.83576e-12	1.000000
rad1	3.31432e-12	1.000000	3.31432e-12	1.000000
rad8	1.63358e-12	1.000000	1.63358e-12	1.000000
PhCCH+CH3	1.21856e-12	1.000000	1.21856e-12	1.000000
rad38	1.16496e-13	1.000000	1.16496e-13	1.000000
rad14	4.73361e-14	1.000000	4.73361e-14	1.000000
rad10	3.22734e-14	1.000000	3.22734e-14	1.000000
PAH7+H	7.08594e-15	1.000000	7.08594e-15	1.000000
rad60syn	6.29938e-15	1.000000	6.29938e-15	1.000000
PAH9+H	4.30378e-15	1.000000	4.30378e-15	1.000000
rad35	2.23822e-15	1.000000	2.23822e-15	1.000000
rad60anti	1.75533e-15	1.000000	1.75533e-15	1.000000
Ph+MeAc	1.22097e-15	1.000000	1.22097e-15	1.000000
rad46	1.01771e-15	1.000000	1.01771e-15	1.000000
PhCCCH3+H	8.01649e-17	1.000000	8.01649e-17	1.000000
rad27	5.24472e-17	1.000000	5.24472e-17	1.000000
PAH3+H	2.90960e-18	1.000000	2.90960e-18	1.000000
rad31	2.58326e-18	1.000000	2.58326e-18	1.000000
rad59	1.07986e-18	1.000000	1.07986e-18	1.000000
rad39	9.77635e-19	1.000000	9.77635e-19	1.000000
rad26	9.17408e-19	1.000000	9.17408e-19	1.000000
rad50	1.60741e-21	1.000000	1.60741e-21	1.000000
rad5	2.85166e-23	1.000000	2.85166e-23	1.000000
rad19syn	2.71413e-23	1.000000	2.71413e-23	1.000000
rad54	8.36535e-25	1.000000	8.36535e-25	1.000000
rad12	5.96635e-26	1.000000	5.96635e-26	1.000000
rad52	3.20382e-26	1.000000	3.20382e-26	1.000000
rad70	1.20203e-26	1.000000	1.20203e-26	1.000000
rad37	2.90832e-27	1.000000	2.90832e-27	1.000000
rad62	5.03323e-28	1.000000	5.03323e-28	1.000000
rad51	8.82081e-29	1.000000	8.82081e-29	1.000000
rad55	3.10308e-29	1.000000	3.10308e-29	1.000000
PhcycC3H3_A+H	2.95909e-29	1.000000	2.95909e-29	1.000000
rad43	1.76901e-29	1.000000	1.76901e-29	1.000000
rad58	6.60255e-30	1.000000	6.60255e-30	1.000000
rad34	1.12142e-30	1.000000	1.12142e-30	1.000000
rad65	1.31684e-32	1.000000	1.31684e-32	1.000000
PAH10+CH3	3.41794e-33	1.000000	3.41794e-33	1.000000
rad47	7.61888e-34	1.000000	7.61888e-34	1.000000
PAH1+H	3.39583e-34	1.000000	3.39583e-34	1.000000
rad42	1.76444e-35	1.000000	1.76444e-35	1.000000
rad41	1.25281e-37	1.000000	1.25281e-37	1.000000

10000.0000 Pa, 160.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.81800e-18	(1.00)	1.81800e-18	(1.00)
Formation of rad11	1.64862e-18	(0.907)	1.64862e-18	(0.907)
Formation of rad6	1.62558e-19	(0.0894)	1.62558e-19	(0.0894)
H-abstraction	6.82130e-21	(0.00375)	6.82130e-21	(0.00375)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.865910	0.865910	0.865910	0.865910

rad6	0.128077	0.993986	0.128077	0.993986
Benzene+2-propynyl	0.00375209	0.997739	0.00375209	0.997739
rad22	0.00122458	0.998963	0.00122458	0.998963
Indene+H	0.000266401	0.999229	0.000266401	0.999229
rad18	0.000232081	0.999462	0.000232081	0.999462
rad20	0.000187966	0.999650	0.000187966	0.999650
rad45	0.000163332	0.999813	0.000163332	0.999813
rad21	0.000133211	0.999946	0.000133211	0.999946
rad23	2.18921e-05	0.999968	2.18921e-05	0.999968
C2H2+PhCH2	1.17888e-05	0.999980	1.17888e-05	0.999980
rad36	1.01672e-05	0.999990	1.01672e-05	0.999990
rad7	7.73732e-06	0.999998	7.73732e-06	0.999998
rad25	1.27689e-06	0.999999	1.27689e-06	0.999999
rad13	9.31484e-07	1.000000	9.31484e-07	1.000000
PhCHCCH2+H	1.80769e-07	1.000000	1.80769e-07	1.000000
rad9	1.24857e-08	1.000000	1.24857e-08	1.000000
rad3	7.35609e-09	1.000000	7.35609e-09	1.000000
Phenyl+Allene	4.43990e-09	1.000000	0.000000	1.000000
rad4	3.78519e-09	1.000000	3.78519e-09	1.000000
rad33	1.50750e-09	1.000000	1.50750e-09	1.000000
rad28	4.73207e-10	1.000000	4.73207e-10	1.000000
rad30	2.70723e-10	1.000000	2.70723e-10	1.000000
rad2	7.96994e-11	1.000000	7.96994e-11	1.000000
rad15	5.10925e-11	1.000000	5.10925e-11	1.000000
rad24	1.90314e-11	1.000000	1.90314e-11	1.000000
PhCH2CCH+H	1.81610e-11	1.000000	1.81610e-11	1.000000
rad1	5.34418e-12	1.000000	5.34418e-12	1.000000
rad8	2.66820e-12	1.000000	2.66820e-12	1.000000
PhCCH+CH3	2.23068e-12	1.000000	2.23068e-12	1.000000
rad38	1.70077e-13	1.000000	1.70077e-13	1.000000
rad14	8.05003e-14	1.000000	8.05003e-14	1.000000
rad10	6.27115e-14	1.000000	6.27115e-14	1.000000
PAH7+H	1.86919e-14	1.000000	1.86919e-14	1.000000
rad60syn	1.11369e-14	1.000000	1.11369e-14	1.000000
PAH9+H	7.18360e-15	1.000000	7.18360e-15	1.000000
rad35	3.68526e-15	1.000000	3.68526e-15	1.000000
rad60anti	3.26210e-15	1.000000	3.26210e-15	1.000000
Ph+MeAc	2.73849e-15	1.000000	2.73849e-15	1.000000
rad46	1.62593e-15	1.000000	1.62593e-15	1.000000
PhCCCH3+H	1.87097e-16	1.000000	1.87097e-16	1.000000
rad27	1.00469e-16	1.000000	1.00469e-16	1.000000
PAH3+H	9.87161e-18	1.000000	9.87161e-18	1.000000
rad31	3.68242e-18	1.000000	3.68242e-18	1.000000
rad59	3.52484e-18	1.000000	3.52484e-18	1.000000
rad26	2.48883e-18	1.000000	2.48883e-18	1.000000
rad39	2.14337e-18	1.000000	2.14337e-18	1.000000
rad50	5.56951e-21	1.000000	5.56951e-21	1.000000
rad19syn	1.88580e-22	1.000000	1.88580e-22	1.000000
rad5	1.16410e-22	1.000000	1.16410e-22	1.000000
rad54	7.41094e-24	1.000000	7.41094e-24	1.000000
rad12	2.64490e-25	1.000000	2.64490e-25	1.000000
rad52	2.27026e-25	1.000000	2.27026e-25	1.000000
rad70	2.23843e-25	1.000000	2.23843e-25	1.000000
rad37	1.53524e-26	1.000000	1.53524e-26	1.000000
rad62	6.23993e-27	1.000000	6.23993e-27	1.000000
rad51	1.07858e-27	1.000000	1.07858e-27	1.000000
PhcycC3H3_A+H	5.65800e-28	1.000000	5.65800e-28	1.000000
rad55	5.40603e-28	1.000000	5.40603e-28	1.000000
rad43	2.06056e-28	1.000000	2.06056e-28	1.000000
rad58	1.40247e-28	1.000000	1.40247e-28	1.000000
rad34	5.17662e-29	1.000000	5.17662e-29	1.000000
rad65	2.35523e-31	1.000000	2.35523e-31	1.000000
PAH10+CH3	5.47442e-32	1.000000	5.47442e-32	1.000000
rad47	1.72111e-32	1.000000	1.72111e-32	1.000000
PAH1+H	1.01921e-32	1.000000	1.01921e-32	1.000000
rad42	7.49878e-34	1.000000	7.49878e-34	1.000000
rad41	5.33313e-36	1.000000	5.33313e-36	1.000000

10000.0000 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	3.56414e-18 (1.00)	3.56414e-18 (1.00)		
Formation of rad11	3.18264e-18 (0.893)	3.18264e-18 (0.893)		
Formation of rad6	3.62173e-19 (0.102)	3.62173e-19 (0.102)		
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)		
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.848375	0.848375	0.848375	0.848375

rad6	0.143704	0.992080	0.143704	0.992080
Benzene+2-propynyl	0.00542285	0.997503	0.00542285	0.997503
rad22	0.00136534	0.998868	0.00136534	0.998868
Indene+H	0.000322831	0.999191	0.000322831	0.999191
rad18	0.000245416	0.999436	0.000245416	0.999436
rad45	0.000184449	0.999621	0.000184449	0.999621
rad20	0.000184078	0.999805	0.000184078	0.999805
rad21	0.000129931	0.999935	0.000129931	0.999935
rad23	2.74196e-05	0.999962	2.74196e-05	0.999962
C2H2+PhCH2	1.44755e-05	0.999977	1.44755e-05	0.999977
rad36	1.14934e-05	0.999988	1.14934e-05	0.999988
rad7	9.74522e-06	0.999998	9.74522e-06	0.999998
rad25	1.44920e-06	0.999999	1.44920e-06	0.999999
rad13	1.02542e-06	1.00000	1.02542e-06	1.00000
PhCHCCH2+H	2.29271e-07	1.00000	2.29271e-07	1.00000
rad9	1.62324e-08	1.00000	1.62324e-08	1.00000
rad3	9.78060e-09	1.00000	9.78060e-09	1.00000
Phenyl+Allene	6.86994e-09	1.00000	0.00000	1.00000
rad4	5.03968e-09	1.00000	5.03968e-09	1.00000
rad33	1.64306e-09	1.00000	1.64306e-09	1.00000
rad28	6.55623e-10	1.00000	6.55623e-10	1.00000
rad30	3.69125e-10	1.00000	3.69125e-10	1.00000
rad2	1.25734e-10	1.00000	1.25734e-10	1.00000
rad15	7.14193e-11	1.00000	7.14193e-11	1.00000
PhCH2CCH+H	3.97826e-11	1.00000	3.97826e-11	1.00000
rad24	1.81130e-11	1.00000	1.81130e-11	1.00000
rad1	8.47569e-12	1.00000	8.47569e-12	1.00000
rad8	4.33380e-12	1.00000	4.33380e-12	1.00000
PhCCH+CH3	4.03321e-12	1.00000	4.03321e-12	1.00000
rad38	2.49461e-13	1.00000	2.49461e-13	1.00000
rad14	1.34333e-13	1.00000	1.34333e-13	1.00000
rad10	1.20367e-13	1.00000	1.20367e-13	1.00000
PAH7+H	4.63498e-14	1.00000	4.63498e-14	1.00000
rad60syn	1.94628e-14	1.00000	1.94628e-14	1.00000
PAH9+H	1.20819e-14	1.00000	1.20819e-14	1.00000
rad35	6.11259e-15	1.00000	6.11259e-15	1.00000
Ph+MeAc	6.03715e-15	1.00000	6.03715e-15	1.00000
rad60anti	5.95796e-15	1.00000	5.95796e-15	1.00000
rad46	2.61709e-15	1.00000	2.61709e-15	1.00000
PhCCCH3+H	4.34082e-16	1.00000	4.34082e-16	1.00000
rad27	1.87844e-16	1.00000	1.87844e-16	1.00000
PAH3+H	3.05161e-17	1.00000	3.05161e-17	1.00000
rad59	1.05054e-17	1.00000	1.05054e-17	1.00000
rad26	6.60951e-18	1.00000	6.60951e-18	1.00000
rad31	5.17588e-18	1.00000	5.17588e-18	1.00000
rad39	4.65194e-18	1.00000	4.65194e-18	1.00000
rad50	1.79860e-20	1.00000	1.79860e-20	1.00000
rad19syn	1.09598e-21	1.00000	1.09598e-21	1.00000
rad5	4.50297e-22	1.00000	4.50297e-22	1.00000
rad54	5.24407e-23	1.00000	5.24407e-23	1.00000
rad70	3.00523e-24	1.00000	3.00523e-24	1.00000
rad52	1.36114e-24	1.00000	1.36114e-24	1.00000
rad12	1.14940e-24	1.00000	1.14940e-24	1.00000
rad37	7.88182e-26	1.00000	7.88182e-26	1.00000
rad62	6.15561e-26	1.00000	6.15561e-26	1.00000
rad51	1.04966e-26	1.00000	1.04966e-26	1.00000
PhcycC3H3_A+H	7.94586e-27	1.00000	7.94586e-27	1.00000
rad55	6.89763e-27	1.00000	6.89763e-27	1.00000
rad58	2.10939e-27	1.00000	2.10939e-27	1.00000
rad43	1.97560e-27	1.00000	1.97560e-27	1.00000
rad34	1.18435e-27	1.00000	1.18435e-27	1.00000
rad65	3.22885e-30	1.00000	3.22885e-30	1.00000
PAH10+CH3	7.29384e-31	1.00000	7.29384e-31	1.00000
rad47	2.72714e-31	1.00000	2.72714e-31	1.00000
PAH1+H	2.03862e-31	1.00000	2.03863e-31	1.00000
rad42	1.85455e-32	1.00000	1.85455e-32	1.00000
rad41	1.38446e-34	1.00000	1.38446e-34	1.00000

10000.0000 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.50681e-18 (1.00)	6.50681e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71915e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39013e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.830440	0.830440	0.830441	0.830441

rad6	0.159326	0.989766	0.159326	0.989767
Benzene+2-propynyl	0.00747672	0.997243	0.00747672	0.997244
rad22	0.00151699	0.998760	0.00151699	0.998761
Indene+H	0.000388491	0.999148	0.000388491	0.999149
rad18	0.000257472	0.999406	0.000257472	0.999407
rad45	0.000207674	0.999613	0.000207674	0.999614
rad20	0.000179712	0.999793	0.000179712	0.999794
rad21	0.000126401	0.999920	0.000126401	0.999921
rad23	3.42257e-05	0.999954	3.42257e-05	0.999955
C2H2+PhCH2	1.77535e-05	0.999971	1.77535e-05	0.999972
rad36	1.29579e-05	0.999984	1.29579e-05	0.999985
rad7	1.20831e-05	0.999997	1.20831e-05	0.999998
rad25	1.64011e-06	0.999998	1.64011e-06	0.999999
rad13	1.11613e-06	0.999999	1.11613e-06	1.000000
PhCHCCH2+H	2.92060e-07	1.000000	2.92060e-07	1.000000
rad9	2.11819e-08	1.000000	2.11819e-08	1.000000
rad3	1.28124e-08	1.000000	1.28124e-08	1.000000
Phenyl+Allene	1.05613e-08	1.000000	0.000000	1.000000
rad4	6.61215e-09	1.000000	6.61215e-09	1.000000
rad33	1.77310e-09	1.000000	1.77310e-09	1.000000
rad28	8.96222e-10	1.000000	8.96222e-10	1.000000
rad30	5.01254e-10	1.000000	5.01254e-10	1.000000
rad2	1.95878e-10	1.000000	1.95878e-10	1.000000
rad15	9.94697e-11	1.000000	9.94697e-11	1.000000
PhCH2CCH+H	8.30561e-11	1.000000	8.30561e-11	1.000000
rad24	1.75025e-11	1.000000	1.75025e-11	1.000000
rad1	1.32820e-11	1.000000	1.32820e-11	1.000000
PhCCH+CH3	7.23054e-12	1.000000	7.23054e-12	1.000000
rad8	6.99740e-12	1.000000	6.99740e-12	1.000000
rad38	3.67887e-13	1.000000	3.67887e-13	1.000000
rad10	2.29265e-13	1.000000	2.29265e-13	1.000000
rad14	2.20679e-13	1.000000	2.20679e-13	1.000000
PAH7+H	1.08801e-13	1.000000	1.08801e-13	1.000000
rad60syn	3.36123e-14	1.000000	3.36123e-14	1.000000
PAH9+H	2.04912e-14	1.000000	2.04912e-14	1.000000
Ph+MeAc	1.31170e-14	1.000000	1.31170e-14	1.000000
rad60anti	1.06997e-14	1.000000	1.06997e-14	1.000000
rad35	1.02217e-14	1.000000	1.02217e-14	1.000000
rad46	4.24308e-15	1.000000	4.24308e-15	1.000000
PhCCCH3+H	1.00386e-15	1.000000	1.00386e-15	1.000000
rad27	3.43880e-16	1.000000	3.43880e-16	1.000000
PAH3+H	8.70318e-17	1.000000	8.70318e-17	1.000000
rad59	2.89479e-17	1.000000	2.89479e-17	1.000000
rad26	1.72715e-17	1.000000	1.72715e-17	1.000000
rad39	1.00202e-17	1.000000	1.00202e-17	1.000000
rad31	7.20252e-18	1.000000	7.20252e-18	1.000000
rad50	5.46383e-20	1.000000	5.46383e-20	1.000000
rad19syn	5.47775e-21	1.000000	5.47775e-21	1.000000
rad5	1.66088e-21	1.000000	1.66088e-21	1.000000
rad54	3.07529e-22	1.000000	3.07529e-22	1.000000
rad70	3.07512e-23	1.000000	3.07512e-23	1.000000
rad52	7.06692e-24	1.000000	7.06692e-24	1.000000
rad12	4.93584e-24	1.000000	4.93584e-24	1.000000
rad62	4.98066e-25	1.000000	4.98066e-25	1.000000
rad37	3.96049e-25	1.000000	3.96049e-25	1.000000
PhcycC3H3_A+H	8.60355e-26	1.000000	8.60355e-26	1.000000
rad51	8.37917e-26	1.000000	8.37917e-26	1.000000
rad55	6.78429e-26	1.000000	6.78429e-26	1.000000
rad58	2.39648e-26	1.000000	2.39648e-26	1.000000
rad34	1.83417e-26	1.000000	1.83417e-26	1.000000
rad43	1.59760e-26	1.000000	1.59760e-26	1.000000
rad65	3.51271e-29	1.000000	3.51271e-29	1.000000
PAH10+CH3	8.21179e-30	1.000000	8.21179e-30	1.000000
rad47	3.23095e-30	1.000000	3.23095e-30	1.000000
PAH1+H	2.99360e-30	1.000000	2.99360e-30	1.000000
rad42	3.24677e-31	1.000000	3.24677e-31	1.000000
rad41	2.56510e-33	1.000000	2.56510e-33	1.000000

10000.0000 Pa, 190.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.11858e-17	(1.00)	1.11858e-17	(1.00)
Formation of rad11	9.67466e-18	(0.865)	9.67466e-18	(0.865)
Formation of rad6	1.40029e-18	(0.125)	1.40029e-18	(0.125)
H-abstraction	1.10851e-19	(0.00991)	1.10851e-19	(0.00991)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.812184	0.812184	0.812184	0.812184

rad6	0.174865	0.987048	0.174865	0.987048
Benzene+2-propynyl	0.00990995	0.996958	0.00990995	0.996958
rad22	0.00168069	0.998639	0.00168069	0.998639
Indene+H	0.000464794	0.999104	0.000464794	0.999104
rad18	0.000268171	0.999372	0.000268171	0.999372
rad45	0.000233254	0.999605	0.000233254	0.999605
rad20	0.000174969	0.999780	0.000174969	0.999780
rad21	0.000122680	0.999903	0.000122680	0.999903
rad23	4.26170e-05	0.999946	4.26170e-05	0.999946
C2H2+PhCH2	2.17627e-05	0.999967	2.17628e-05	0.999967
rad7	1.47872e-05	0.999982	1.47872e-05	0.999982
rad36	1.45786e-05	0.999997	1.45786e-05	0.999997
rad25	1.85042e-06	0.999999	1.85042e-06	0.999999
rad13	1.20349e-06	1.000000	1.20349e-06	1.000000
PhCHCCH2+H	3.73598e-07	1.000000	3.73598e-07	1.000000
rad9	2.77329e-08	1.000000	2.77329e-08	1.000000
rad3	1.65865e-08	1.000000	1.65865e-08	1.000000
Phenyl+Allene	1.61311e-08	1.000000	0.000000	1.000000
rad4	8.57493e-09	1.000000	8.57493e-09	1.000000
rad33	1.89763e-09	1.000000	1.89763e-09	1.000000
rad28	1.21261e-09	1.000000	1.21261e-09	1.000000
rad30	6.78238e-10	1.000000	6.78238e-10	1.000000
rad2	3.02391e-10	1.000000	3.02391e-10	1.000000
PhCH2CCH+H	1.66365e-10	1.000000	1.66365e-10	1.000000
rad15	1.38068e-10	1.000000	1.38068e-10	1.000000
rad1	2.06387e-11	1.000000	2.06387e-11	1.000000
rad24	1.71541e-11	1.000000	1.71541e-11	1.000000
PhCCH+CH3	1.28861e-11	1.000000	1.28861e-11	1.000000
rad8	1.12252e-11	1.000000	1.12252e-11	1.000000
rad38	5.45601e-13	1.000000	5.45601e-13	1.000000
rad10	4.34706e-13	1.000000	4.34706e-13	1.000000
rad14	3.57613e-13	1.000000	3.57613e-13	1.000000
PAH7+H	2.43176e-13	1.000000	2.43176e-13	1.000000
rad60syn	5.73419e-14	1.000000	5.73419e-14	1.000000
PAH9+H	3.50424e-14	1.000000	3.50424e-14	1.000000
Ph+MeAc	2.81341e-14	1.000000	2.81341e-14	1.000000
rad60anti	1.88996e-14	1.000000	1.88996e-14	1.000000
rad35	1.72305e-14	1.000000	1.72305e-14	1.000000
rad46	6.92381e-15	1.000000	6.92381e-15	1.000000
PhCCCH3+H	2.31659e-15	1.000000	2.31659e-15	1.000000
rad27	6.17725e-16	1.000000	6.17725e-16	1.000000
PAH3+H	2.31418e-16	1.000000	2.31418e-16	1.000000
rad59	7.45223e-17	1.000000	7.45223e-17	1.000000
rad26	4.46270e-17	1.000000	4.46270e-17	1.000000
rad39	2.14509e-17	1.000000	2.14509e-17	1.000000
rad31	9.95625e-18	1.000000	9.95625e-18	1.000000
rad50	1.57337e-19	1.000000	1.57337e-19	1.000000
rad19syn	2.40897e-20	1.000000	2.40897e-20	1.000000
rad5	5.86793e-21	1.000000	5.86793e-21	1.000000
rad54	1.54006e-21	1.000000	1.54006e-21	1.000000
rad70	2.49721e-22	1.000000	2.49721e-22	1.000000
rad52	3.24277e-23	1.000000	3.24277e-23	1.000000
rad12	2.10101e-23	1.000000	2.10101e-23	1.000000
rad62	3.39127e-24	1.000000	3.39127e-24	1.000000
rad37	1.94889e-24	1.000000	1.94889e-24	1.000000
PhcycC3H3_A+H	7.44652e-25	1.000000	7.44652e-25	1.000000
rad51	5.63479e-25	1.000000	5.63479e-25	1.000000
rad55	5.35044e-25	1.000000	5.35044e-25	1.000000
rad58	2.14479e-25	1.000000	2.14479e-25	1.000000
rad34	2.11408e-25	1.000000	2.11408e-25	1.000000
rad43	1.11200e-25	1.000000	1.11200e-25	1.000000
rad65	3.12264e-28	1.000000	3.12264e-28	1.000000
PAH10+CH3	7.87924e-29	1.000000	7.87924e-29	1.000000
PAH1+H	3.36530e-29	1.000000	3.36530e-29	1.000000
rad47	2.97611e-29	1.000000	2.97611e-29	1.000000
rad42	4.21885e-30	1.000000	4.21885e-30	1.000000
rad41	3.54236e-32	1.000000	3.54236e-32	1.000000

10000.0000 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	1.82690e-17 (1.00)	1.82690e-17 (1.00)		
Formation of rad11	1.55456e-17 (0.851)	1.55456e-17 (0.851)		
Formation of rad6	2.49126e-18 (0.136)	2.49126e-18 (0.136)		
H-abstraction	2.32112e-19 (0.0127)	2.32112e-19 (0.0127)		
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.793662	0.793662	0.793662	0.793662

rad6	0.190276	0.983938	0.190276	0.983938
Benzene+2-propynyl	0.0127053	0.996643	0.0127053	0.996643
rad22	0.00185752	0.998501	0.00185752	0.998501
Indene+H	0.000553367	0.999054	0.000553367	0.999054
rad18	0.000277444	0.999332	0.000277444	0.999332
rad45	0.000261455	0.999593	0.000261455	0.999593
rad20	0.000169932	0.999763	0.000169932	0.999763
rad21	0.000118818	0.999882	0.000118818	0.999882
rad23	5.29720e-05	0.999935	5.29720e-05	0.999935
C2H2+PhCH2	2.66744e-05	0.999961	2.66744e-05	0.999961
rad7	1.78991e-05	0.999979	1.78991e-05	0.999979
rad36	1.63751e-05	0.999996	1.63751e-05	0.999996
rad25	2.08040e-06	0.999998	2.08040e-06	0.999998
rad13	1.28756e-06	0.999999	1.28756e-06	0.999999
PhCHCCH2+H	4.79703e-07	0.999999	4.79703e-07	0.999999
rad9	3.64105e-08	1.000000	3.64105e-08	1.000000
Phenyl+Allene	2.44748e-08	1.000000	0.000000	1.000000
rad3	2.12715e-08	1.000000	2.12715e-08	1.000000
rad4	1.10186e-08	1.000000	1.10186e-08	1.000000
rad33	2.01690e-09	1.000000	2.01690e-09	1.000000
rad28	1.62812e-09	1.000000	1.62812e-09	1.000000
rad30	9.14569e-10	1.000000	9.14569e-10	1.000000
rad2	4.63811e-10	1.000000	4.63811e-10	1.000000
PhCH2CCH+H	3.21402e-10	1.000000	3.21402e-10	1.000000
rad15	1.90993e-10	1.000000	1.90993e-10	1.000000
rad1	3.18846e-11	1.000000	3.18847e-11	1.000000
PhCCH+CH3	2.28658e-11	1.000000	2.28658e-11	1.000000
rad8	1.78812e-11	1.000000	1.78812e-11	1.000000
rad24	1.70357e-11	1.000000	1.70357e-11	1.000000
rad10	8.22028e-13	1.000000	8.22028e-13	1.000000
rad38	8.13551e-13	1.000000	8.13551e-13	1.000000
rad14	5.72283e-13	1.000000	5.72283e-13	1.000000
PAH7+H	5.19951e-13	1.000000	5.19951e-13	1.000000
rad60syn	9.65941e-14	1.000000	9.65941e-14	1.000000
PAH9+H	6.03755e-14	1.000000	6.03755e-14	1.000000
Ph+MeAc	5.96251e-14	1.000000	5.96251e-14	1.000000
rad60anti	3.28418e-14	1.000000	3.28418e-14	1.000000
rad35	2.92522e-14	1.000000	2.92522e-14	1.000000
rad46	1.13578e-14	1.000000	1.13578e-14	1.000000
PhCCCH3+H	5.33411e-15	1.000000	5.33411e-15	1.000000
rad27	1.09045e-15	1.000000	1.09045e-15	1.000000
PAH3+H	5.78698e-16	1.000000	5.78698e-16	1.000000
rad59	1.80779e-16	1.000000	1.80779e-16	1.000000
rad26	1.14457e-16	1.000000	1.14457e-16	1.000000
rad39	4.56681e-17	1.000000	4.56681e-17	1.000000
rad31	1.37095e-17	1.000000	1.37095e-17	1.000000
rad50	4.32156e-19	1.000000	4.32156e-19	1.000000
rad19syn	9.49644e-20	1.000000	9.49644e-20	1.000000
rad5	1.99199e-20	1.000000	1.99199e-20	1.000000
rad54	6.74698e-21	1.000000	6.74698e-21	1.000000
rad70	1.66257e-21	1.000000	1.66257e-21	1.000000
rad52	1.33791e-22	1.000000	1.33791e-22	1.000000
rad12	8.84367e-23	1.000000	8.84367e-23	1.000000
rad62	1.98439e-23	1.000000	1.98439e-23	1.000000
rad37	9.34274e-24	1.000000	9.34274e-24	1.000000
PhcycC3H3_A+H	5.30402e-24	1.000000	5.30402e-24	1.000000
rad55	3.49101e-24	1.000000	3.49101e-24	1.000000
rad51	3.26455e-24	1.000000	3.26455e-24	1.000000
rad34	1.90395e-24	1.000000	1.90395e-24	1.000000
rad58	1.56241e-24	1.000000	1.56241e-24	1.000000
rad43	6.77015e-25	1.000000	6.77015e-25	1.000000
rad65	2.32338e-27	1.000000	2.32338e-27	1.000000
PAH10+CH3	6.48234e-28	1.000000	6.48234e-28	1.000000
PAH1+H	2.99874e-28	1.000000	2.99874e-28	1.000000
rad47	2.20418e-28	1.000000	2.20418e-28	1.000000
rad42	4.23925e-29	1.000000	4.23925e-29	1.000000
rad41	3.79136e-31	1.000000	3.79137e-31	1.000000

10000.0000 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	2.85520e-17 (1.00)	2.85520e-17 (1.00)		
Formation of rad11	2.39009e-17 (0.837)	2.39009e-17 (0.837)		
Formation of rad6	4.19900e-18 (0.147)	4.19900e-18 (0.147)		
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)		
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.774917	0.774917	0.774917	0.774917

rad6	0.205544	0.980461	0.205544	0.980461
Benzene+2-propynyl	0.0158346	0.996296	0.0158346	0.996296
rad22	0.00204856	0.998344	0.00204856	0.998344
Indene+H	0.000656081	0.999000	0.000656081	0.999000
rad45	0.000292546	0.999293	0.000292546	0.999293
rad18	0.000285237	0.999578	0.000285237	0.999578
rad20	0.000164674	0.999743	0.000164674	0.999743
rad21	0.000114855	0.999858	0.000114855	0.999858
rad23	6.57547e-05	0.999923	6.57547e-05	0.999923
C2H2+PhCH2	3.26974e-05	0.999956	3.26974e-05	0.999956
rad7	2.14662e-05	0.999977	2.14662e-05	0.999977
rad36	1.83678e-05	0.999996	1.83678e-05	0.999996
rad25	2.32963e-06	0.999998	2.32963e-06	0.999998
rad13	1.36853e-06	1.000000	1.36853e-06	1.000000
PhCHCCH2+H	6.17918e-07	1.000000	6.17918e-07	1.000000
rad9	4.79030e-08	1.000000	4.79030e-08	1.000000
Phenyl+Allene	3.68787e-08	1.000000	0.000000	1.000000
rad3	2.70767e-08	1.000000	2.70767e-08	1.000000
rad4	1.40563e-08	1.000000	1.40563e-08	1.000000
rad28	2.17366e-09	1.000000	2.17366e-09	1.000000
rad33	2.13140e-09	1.000000	2.13140e-09	1.000000
rad30	1.22895e-09	1.000000	1.22895e-09	1.000000
rad2	7.08138e-10	1.000000	7.08138e-10	1.000000
PhCH2CCH+H	6.01378e-10	1.000000	6.01378e-10	1.000000
rad15	2.63244e-10	1.000000	2.63244e-10	1.000000
rad1	4.90673e-11	1.000000	4.90673e-11	1.000000
PhCCH+CH3	4.04299e-11	1.000000	4.04299e-11	1.000000
rad8	2.82661e-11	1.000000	2.82661e-11	1.000000
rad24	1.71245e-11	1.000000	1.71245e-11	1.000000
rad10	1.55154e-12	1.000000	1.55154e-12	1.000000
rad38	1.21894e-12	1.000000	1.21894e-12	1.000000
PAH7+H	1.06775e-12	1.000000	1.06775e-12	1.000000
rad14	9.04742e-13	1.000000	9.04742e-13	1.000000
rad60syn	1.60610e-13	1.000000	1.60610e-13	1.000000
Ph+MeAc	1.24907e-13	1.000000	1.24907e-13	1.000000
PAH9+H	1.04663e-13	1.000000	1.04663e-13	1.000000
rad60anti	5.61515e-14	1.000000	5.61515e-14	1.000000
rad35	4.99412e-14	1.000000	4.99412e-14	1.000000
rad46	1.87028e-14	1.000000	1.87028e-14	1.000000
PhCCCH3+H	1.22428e-14	1.000000	1.22428e-14	1.000000
rad27	1.89355e-15	1.000000	1.89355e-15	1.000000
PAH3+H	1.37067e-15	1.000000	1.37067e-15	1.000000
rad59	4.16136e-16	1.000000	4.16136e-16	1.000000
rad26	2.92022e-16	1.000000	2.92022e-16	1.000000
rad39	9.67022e-17	1.000000	9.67022e-17	1.000000
rad31	1.88481e-17	1.000000	1.88481e-17	1.000000
rad50	1.13788e-18	1.000000	1.13788e-18	1.000000
rad19syn	3.40606e-19	1.000000	3.40606e-19	1.000000
rad5	6.50914e-20	1.000000	6.50914e-20	1.000000
rad54	2.63636e-20	1.000000	2.63636e-20	1.000000
rad70	9.31751e-21	1.000000	9.31751e-21	1.000000
rad52	5.03405e-22	1.000000	5.03405e-22	1.000000
rad12	3.65380e-22	1.000000	3.65380e-22	1.000000
rad62	1.01493e-22	1.000000	1.01493e-22	1.000000
rad37	4.32135e-23	1.000000	4.32135e-23	1.000000
PhcycC3H3_A+H	3.18272e-23	1.000000	3.18272e-23	1.000000
rad55	1.93186e-23	1.000000	1.93186e-23	1.000000
rad51	1.65967e-23	1.000000	1.65967e-23	1.000000
rad34	1.38488e-23	1.000000	1.38488e-23	1.000000
rad58	9.51008e-24	1.000000	9.51008e-24	1.000000
rad43	3.65018e-24	1.000000	3.65018e-24	1.000000
rad65	1.47531e-26	1.000000	1.47531e-26	1.000000
PAH10+CH3	4.60040e-27	1.000000	4.60040e-27	1.000000
PAH1+H	2.17885e-27	1.000000	2.17885e-27	1.000000
rad47	1.35093e-27	1.000000	1.35093e-27	1.000000
rad42	3.40484e-28	1.000000	3.40484e-28	1.000000
rad41	3.24800e-30	1.000000	3.24800e-30	1.000000

10000.0000 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	4.29529e-17 (1.00)	4.29529e-17 (1.00)		
Formation of rad11	3.53712e-17 (0.823)	3.53712e-17 (0.823)		
Formation of rad6	6.75433e-18 (0.157)	6.75433e-18 (0.157)		
H-abstraction	8.27372e-19 (0.0193)	8.27372e-19 (0.0193)		
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.755975	0.755975	0.755975	0.755975

rad6	0.220672	0.976647	0.220672	0.976647
Benzene+2-propynyl	0.0192623	0.995909	0.0192623	0.995909
rad22	0.00225476	0.998164	0.00225476	0.998164
Indene+H	0.000775073	0.998939	0.000775073	0.998939
rad45	0.000326797	0.999266	0.000326797	0.999266
rad18	0.000291513	0.999557	0.000291513	0.999557
rad20	0.000159252	0.999717	0.000159252	0.999717
rad21	0.000110826	0.999828	0.000110826	0.999828
rad23	8.15289e-05	0.999909	8.15289e-05	0.999909
C2H2+PhCH2	4.00841e-05	0.999949	4.00841e-05	0.999949
rad7	2.55417e-05	0.999975	2.55417e-05	0.999975
rad36	2.05781e-05	0.999995	2.05781e-05	0.999995
rad25	2.59690e-06	0.999998	2.59690e-06	0.999998
rad13	1.44674e-06	0.999999	1.44674e-06	0.999999
PhCHCCH2+H	7.97961e-07	1.00000	7.97961e-07	1.00000
rad9	6.31055e-08	1.00000	6.31055e-08	1.00000
Phenyl+Allene	5.51699e-08	1.00000	0.00000	1.00000
rad3	3.42610e-08	1.00000	3.42610e-08	1.00000
rad4	1.78289e-08	1.00000	1.78289e-08	1.00000
rad28	2.89025e-09	1.00000	2.89025e-09	1.00000
rad33	2.24173e-09	1.00000	2.24173e-09	1.00000
rad30	1.64529e-09	1.00000	1.64529e-09	1.00000
PhCH2CCH+H	1.09345e-09	1.00000	1.09345e-09	1.00000
rad2	1.07756e-09	1.00000	1.07756e-09	1.00000
rad15	3.61370e-10	1.00000	3.61370e-10	1.00000
rad1	7.53138e-11	1.00000	7.53138e-11	1.00000
PhCCH+CH3	7.12407e-11	1.00000	7.12407e-11	1.00000
rad8	4.43156e-11	1.00000	4.43156e-11	1.00000
rad24	1.74047e-11	1.00000	1.74047e-11	1.00000
rad10	2.92274e-12	1.00000	2.92274e-12	1.00000
PAH7+H	2.11286e-12	1.00000	2.11286e-12	1.00000
rad38	1.83357e-12	1.00000	1.83357e-12	1.00000
rad14	1.41292e-12	1.00000	1.41292e-12	1.00000
rad60syn	2.63516e-13	1.00000	2.63516e-13	1.00000
Ph+MeAc	2.58643e-13	1.00000	2.58643e-13	1.00000
PAH9+H	1.82242e-13	1.00000	1.82242e-13	1.00000
rad60anti	9.44746e-14	1.00000	9.44746e-14	1.00000
rad35	8.55883e-14	1.00000	8.55883e-14	1.00000
rad46	3.08679e-14	1.00000	3.08679e-14	1.00000
PhCCCH3+H	2.79644e-14	1.00000	2.79644e-14	1.00000
rad27	3.23701e-15	1.00000	3.23701e-15	1.00000
PAH3+H	3.09289e-15	1.00000	3.09289e-15	1.00000
rad59	9.14172e-16	1.00000	9.14172e-16	1.00000
rad26	7.41317e-16	1.00000	7.41317e-16	1.00000
rad39	2.03606e-16	1.00000	2.03606e-16	1.00000
rad31	2.59223e-17	1.00000	2.59223e-17	1.00000
rad50	2.88362e-18	1.00000	2.88362e-18	1.00000
rad19syn	1.12457e-18	1.00000	1.12457e-18	1.00000
rad5	2.04855e-19	1.00000	2.04855e-19	1.00000
rad54	9.32946e-20	1.00000	9.32946e-20	1.00000
rad70	4.49102e-20	1.00000	4.49102e-20	1.00000
rad52	1.74726e-21	1.00000	1.74726e-21	1.00000
rad12	1.46602e-21	1.00000	1.46602e-21	1.00000
rad62	4.59927e-22	1.00000	4.59927e-22	1.00000
rad37	1.90661e-22	1.00000	1.90661e-22	1.00000
PhcycC3H3_A+H	1.63997e-22	1.00000	1.63997e-22	1.00000
rad55	9.24868e-23	1.00000	9.24868e-23	1.00000
rad34	8.35568e-23	1.00000	8.35568e-23	1.00000
rad51	7.51481e-23	1.00000	7.51481e-23	1.00000
rad58	4.94144e-23	1.00000	4.94144e-23	1.00000
rad43	1.75962e-23	1.00000	1.75962e-23	1.00000
rad65	8.12430e-26	1.00000	8.12430e-26	1.00000
PAH10+CH3	2.83681e-26	1.00000	2.83681e-26	1.00000
PAH1+H	1.32200e-26	1.00000	1.32200e-26	1.00000
rad47	7.02204e-27	1.00000	7.02204e-27	1.00000
rad42	2.24786e-27	1.00000	2.24786e-27	1.00000
rad41	2.28955e-29	1.00000	2.28955e-29	1.00000

10000.0000 Pa, 230.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	6.25016e-17	(1.00)	6.25016e-17	(1.00)
Formation of rad11	5.06355e-17	(0.810)	5.06355e-17	(0.810)
Formation of rad6	1.04318e-17	(0.167)	1.04318e-17	(0.167)
H-abstraction	1.43428e-18	(0.0229)	1.43428e-18	(0.0229)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.736852	0.736852	0.736852	0.736852

rad6	0.235681	0.972532	0.235681	0.972532
Benzene+2-propynyl	0.0229478	0.995480	0.0229478	0.995480
rad22	0.00247692	0.997957	0.00247692	0.997957
Indene+H	0.000912770	0.998870	0.000912770	0.998870
rad45	0.000364460	0.999234	0.000364460	0.999234
rad18	0.000296247	0.999531	0.000296247	0.999531
rad20	0.000153719	0.999684	0.000153719	0.999684
rad21	0.000106760	0.999791	0.000106760	0.999791
rad23	0.000100973	0.999892	0.000100973	0.999892
C2H2+PhCH2	4.91379e-05	0.999941	4.91379e-05	0.999941
rad7	3.01843e-05	0.999971	3.01843e-05	0.999971
rad36	2.30279e-05	0.999994	2.30279e-05	0.999994
rad25	2.88013e-06	0.999997	2.88013e-06	0.999997
rad13	1.52254e-06	0.999999	1.52254e-06	0.999999
PhCHCCH2+H	1.03227e-06	1.000000	1.03227e-06	1.000000
rad9	8.31739e-08	1.000000	8.31740e-08	1.000000
Phenyl+Allene	8.19126e-08	1.000000	0.000000	1.000000
rad3	4.31428e-08	1.000000	4.31428e-08	1.000000
rad4	2.25106e-08	1.000000	2.25106e-08	1.000000
rad28	3.83236e-09	1.000000	3.83236e-09	1.000000
rad33	2.34861e-09	1.000000	2.34861e-09	1.000000
rad30	2.19383e-09	1.000000	2.19383e-09	1.000000
PhCH2CCH+H	1.93708e-09	1.000000	1.93708e-09	1.000000
rad2	1.63536e-09	1.000000	1.63536e-09	1.000000
rad15	4.93870e-10	1.000000	4.93870e-10	1.000000
PhCCH+CH3	1.25055e-10	1.000000	1.25055e-10	1.000000
rad1	1.15386e-10	1.000000	1.15386e-10	1.000000
rad8	6.88699e-11	1.000000	6.88699e-11	1.000000
rad24	1.78653e-11	1.000000	1.78653e-11	1.000000
rad10	5.49090e-12	1.000000	5.49090e-12	1.000000
PAH7+H	4.04020e-12	1.000000	4.04020e-12	1.000000
rad38	2.76618e-12	1.000000	2.76618e-12	1.000000
rad14	2.17881e-12	1.000000	2.17881e-12	1.000000
Ph+MeAc	5.29188e-13	1.000000	5.29188e-13	1.000000
rad60syn	4.26530e-13	1.000000	4.26530e-13	1.000000
PAH9+H	3.18136e-13	1.000000	3.18136e-13	1.000000
rad60anti	1.56440e-13	1.000000	1.56440e-13	1.000000
rad35	1.46948e-13	1.000000	1.46948e-13	1.000000
PhCCCH3+H	6.34309e-14	1.000000	6.34309e-14	1.000000
rad46	5.09827e-14	1.000000	5.09827e-14	1.000000
PAH3+H	6.68083e-15	1.000000	6.68083e-15	1.000000
rad27	5.45064e-15	1.000000	5.45064e-15	1.000000
rad59	1.92553e-15	1.000000	1.92553e-15	1.000000
rad26	1.86916e-15	1.000000	1.86916e-15	1.000000
rad39	4.25971e-16	1.000000	4.25971e-16	1.000000
rad31	3.57209e-17	1.000000	3.57209e-17	1.000000
rad50	7.05589e-18	1.000000	7.05590e-18	1.000000
rad19syn	3.44894e-18	1.000000	3.44894e-18	1.000000
rad5	6.20627e-19	1.000000	6.20627e-19	1.000000
rad54	3.02575e-19	1.000000	3.02576e-19	1.000000
rad70	1.89490e-19	1.000000	1.89490e-19	1.000000
rad12	5.64792e-21	1.000000	5.64792e-21	1.000000
rad52	5.64523e-21	1.000000	5.64523e-21	1.000000
rad62	1.86719e-21	1.000000	1.86719e-21	1.000000
rad37	7.94064e-22	1.000000	7.94064e-22	1.000000
PhcycC3H3_A+H	7.37270e-22	1.000000	7.37270e-22	1.000000
rad34	4.27639e-22	1.000000	4.27639e-22	1.000000
rad55	3.89255e-22	1.000000	3.89255e-22	1.000000
rad51	3.06685e-22	1.000000	3.06685e-22	1.000000
rad58	2.23109e-22	1.000000	2.23109e-22	1.000000
rad43	7.64377e-23	1.000000	7.64377e-23	1.000000
rad65	3.93304e-25	1.000000	3.93304e-25	1.000000
PAH10+CH3	1.53303e-25	1.000000	1.53303e-25	1.000000
PAH1+H	6.83556e-26	1.000000	6.83556e-26	1.000000
rad47	3.16079e-26	1.000000	3.16079e-26	1.000000
rad42	1.24925e-26	1.000000	1.24925e-26	1.000000
rad41	1.35978e-28	1.000000	1.35978e-28	1.000000

10000.0000 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83273e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04077e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55481e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.717550	0.717550	0.717550	0.717550

rad6	0.250606	0.968156	0.250606	0.968156
Benzene+2-propynyl	0.0268483	0.995004	0.0268483	0.995004
rad22	0.00271561	0.997719	0.00271561	0.997719
Indene+H	0.00107191	0.998791	0.00107191	0.998791
rad45	0.000405769	0.999197	0.000405769	0.999197
rad18	0.000299439	0.999497	0.000299439	0.999497
rad20	0.000148113	0.999645	0.000148113	0.999645
rad23	0.000124895	0.999770	0.000124895	0.999770
rad21	0.000102680	0.999872	0.000102680	0.999872
C2H2+PhCH2	6.02196e-05	0.999932	6.02197e-05	0.999932
rad7	3.54578e-05	0.999968	3.54578e-05	0.999968
rad36	2.57383e-05	0.999994	2.57383e-05	0.999994
rad25	3.17636e-06	0.999997	3.17636e-06	0.999997
rad13	1.59640e-06	0.999998	1.59640e-06	0.999998
PhCHCCH2+H	1.33661e-06	1.000000	1.33661e-06	1.000000
Phenyl+Allene	1.20663e-07	1.000000	0.000000	1.000000
rad9	1.09588e-07	1.000000	1.09588e-07	1.000000
rad3	5.41101e-08	1.000000	5.41101e-08	1.000000
rad4	2.83154e-08	1.000000	2.83154e-08	1.000000
rad28	5.07221e-09	1.000000	5.07221e-09	1.000000
PhCH2CCH+H	3.35052e-09	1.000000	3.35052e-09	1.000000
rad30	2.91248e-09	1.000000	2.91248e-09	1.000000
rad2	2.47593e-09	1.000000	2.47593e-09	1.000000
rad33	2.45277e-09	1.000000	2.45277e-09	1.000000
rad15	6.71633e-10	1.000000	6.71633e-10	1.000000
PhCCH+CH3	2.18521e-10	1.000000	2.18521e-10	1.000000
rad1	1.76502e-10	1.000000	1.76502e-10	1.000000
rad8	1.06039e-10	1.000000	1.06039e-10	1.000000
rad24	1.84988e-11	1.000000	1.84988e-11	1.000000
rad10	1.02742e-11	1.000000	1.02742e-11	1.000000
PAH7+H	7.48386e-12	1.000000	7.48386e-12	1.000000
rad38	4.18073e-12	1.000000	4.18073e-12	1.000000
rad14	3.31586e-12	1.000000	3.31586e-12	1.000000
Ph+MeAc	1.06911e-12	1.000000	1.06911e-12	1.000000
rad60syn	6.80970e-13	1.000000	6.80970e-13	1.000000
PAH9+H	5.55695e-13	1.000000	5.55695e-13	1.000000
rad60anti	2.54991e-13	1.000000	2.54991e-13	1.000000
rad35	2.52257e-13	1.000000	2.52257e-13	1.000000
PhCCCH3+H	1.42513e-13	1.000000	1.42513e-13	1.000000
rad46	8.41399e-14	1.000000	8.41399e-14	1.000000
PAH3+H	1.38687e-14	1.000000	1.38687e-14	1.000000
rad27	9.04443e-15	1.000000	9.04443e-15	1.000000
rad26	4.66502e-15	1.000000	4.66502e-15	1.000000
rad59	3.90355e-15	1.000000	3.90355e-15	1.000000
rad39	8.84506e-16	1.000000	8.84506e-16	1.000000
rad31	4.93832e-17	1.000000	4.93832e-17	1.000000
rad50	1.67112e-17	1.000000	1.67112e-17	1.000000
rad19syn	9.89218e-18	1.000000	9.89218e-18	1.000000
rad5	1.80760e-18	1.000000	1.80760e-18	1.000000
rad54	9.07633e-19	1.000000	9.07633e-19	1.000000
rad70	7.10187e-19	1.000000	7.10187e-19	1.000000
rad12	2.06891e-20	1.000000	2.06891e-20	1.000000
rad52	1.70977e-20	1.000000	1.70977e-20	1.000000
rad62	6.85408e-21	1.000000	6.85408e-21	1.000000
rad37	3.09769e-21	1.000000	3.09769e-21	1.000000
PhcycC3H3_A+H	2.93122e-21	1.000000	2.93122e-21	1.000000
rad34	1.89191e-21	1.000000	1.89191e-21	1.000000
rad55	1.45945e-21	1.000000	1.45945e-21	1.000000
rad51	1.13907e-21	1.000000	1.13907e-21	1.000000
rad58	8.88489e-22	1.000000	8.88489e-22	1.000000
rad43	3.01259e-22	1.000000	3.01259e-22	1.000000
rad65	1.69367e-24	1.000000	1.69367e-24	1.000000
PAH10+CH3	7.32853e-25	1.000000	7.32853e-25	1.000000
PAH1+H	3.06509e-25	1.000000	3.06509e-25	1.000000
rad47	1.25412e-25	1.000000	1.25412e-25	1.000000
rad42	5.96411e-26	1.000000	5.96411e-26	1.000000
rad41	6.94342e-28	1.000000	6.94342e-28	1.000000

10000.0000 Pa, 250.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.21641e-16	(1.00)	1.21641e-16	(1.00)
Formation of rad11	9.54219e-17	(0.784)	9.54219e-17	(0.784)
Formation of rad6	2.24583e-17	(0.185)	2.24583e-17	(0.185)
H-abstraction	3.76121e-18	(0.0309)	3.76121e-18	(0.0309)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.698066	0.698066	0.698066	0.698066

rad6	0.265489	0.963555	0.265489	0.963555
Benzene+2-propynyl	0.0309205	0.994475	0.0309205	0.994475
rad22	0.00297103	0.997446	0.00297104	0.997446
Indene+H	0.00125553	0.998702	0.00125553	0.998702
rad45	0.000450917	0.999153	0.000450917	0.999153
rad18	0.000301102	0.999454	0.000301102	0.999454
rad23	0.000154246	0.999608	0.000154246	0.999608
rad20	0.000142469	0.999751	0.000142469	0.999751
rad21	9.86058e-05	0.999849	9.86058e-05	0.999849
C2H2+PhCH2	7.37552e-05	0.999923	7.37552e-05	0.999923
rad7	4.14302e-05	0.999964	4.14303e-05	0.999964
rad36	2.87294e-05	0.999993	2.87294e-05	0.999993
rad25	3.48173e-06	0.999997	3.48173e-06	0.999997
PhCHCCH2+H	1.73086e-06	0.999998	1.73086e-06	0.999998
rad13	1.66874e-06	1.000000	1.66874e-06	1.000000
Phenyl+Allene	1.76287e-07	1.000000	0.000000	1.000000
rad9	1.44223e-07	1.000000	1.44223e-07	1.000000
rad3	6.76309e-08	1.000000	6.76309e-08	1.000000
rad4	3.55039e-08	1.000000	3.55039e-08	1.000000
rad28	6.70549e-09	1.000000	6.70549e-09	1.000000
PhCH2CCH+H	5.66800e-09	1.000000	5.66800e-09	1.000000
rad30	3.84815e-09	1.000000	3.84815e-09	1.000000
rad2	3.73896e-09	1.000000	3.73896e-09	1.000000
rad33	2.55498e-09	1.000000	2.55498e-09	1.000000
rad15	9.08471e-10	1.000000	9.08471e-10	1.000000
PhCCH+CH3	3.79694e-10	1.000000	3.79694e-10	1.000000
rad1	2.69532e-10	1.000000	2.69532e-10	1.000000
rad8	1.61690e-10	1.000000	1.61691e-10	1.000000
rad24	1.93001e-11	1.000000	1.93001e-11	1.000000
rad10	1.91140e-11	1.000000	1.91140e-11	1.000000
PAH7+H	1.34578e-11	1.000000	1.34578e-11	1.000000
rad38	6.32290e-12	1.000000	6.32290e-12	1.000000
rad14	4.97731e-12	1.000000	4.97732e-12	1.000000
Ph+MeAc	2.13072e-12	1.000000	2.13072e-12	1.000000
rad60syn	1.07226e-12	1.000000	1.07226e-12	1.000000
PAH9+H	9.69341e-13	1.000000	9.69341e-13	1.000000
rad35	4.32138e-13	1.000000	4.32138e-13	1.000000
rad60anti	4.09184e-13	1.000000	4.09184e-13	1.000000
PhCCCH3+H	3.16228e-13	1.000000	3.16229e-13	1.000000
rad46	1.38561e-13	1.000000	1.38561e-13	1.000000
PAH3+H	2.77576e-14	1.000000	2.77576e-14	1.000000
rad27	1.47941e-14	1.000000	1.47941e-14	1.000000
rad26	1.14726e-14	1.000000	1.14726e-14	1.000000
rad59	7.64049e-15	1.000000	7.64049e-15	1.000000
rad39	1.81970e-15	1.000000	1.81970e-15	1.000000
rad31	6.85641e-17	1.000000	6.85641e-17	1.000000
rad50	3.83792e-17	1.000000	3.83792e-17	1.000000
rad19syn	2.66688e-17	1.000000	2.66688e-17	1.000000
rad5	5.05240e-18	1.000000	5.05241e-18	1.000000
rad54	2.53584e-18	1.000000	2.53584e-18	1.000000
rad70	2.39342e-18	1.000000	2.39342e-18	1.000000
rad12	7.15577e-20	1.000000	7.15577e-20	1.000000
rad52	4.88042e-20	1.000000	4.88042e-20	1.000000
rad62	2.29318e-20	1.000000	2.29318e-20	1.000000
rad37	1.12689e-20	1.000000	1.12689e-20	1.000000
PhcycC3H3_A+H	1.04276e-20	1.000000	1.04276e-20	1.000000
rad34	7.35251e-21	1.000000	7.35251e-21	1.000000
rad55	4.92922e-21	1.000000	4.92922e-21	1.000000
rad51	3.88132e-21	1.000000	3.88132e-21	1.000000
rad58	3.16058e-21	1.000000	3.16058e-21	1.000000
rad43	1.08407e-21	1.000000	1.08407e-21	1.000000
rad65	6.55578e-24	1.000000	6.55578e-24	1.000000
PAH10+CH3	3.12891e-24	1.000000	3.12891e-24	1.000000
PAH1+H	1.21007e-24	1.000000	1.21007e-24	1.000000
rad47	4.45320e-25	1.000000	4.45320e-25	1.000000
rad42	2.48888e-25	1.000000	2.48888e-25	1.000000
rad41	3.10168e-27	1.000000	3.10168e-27	1.000000

10000.0000 Pa, 260.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.63720e-16	(1.00)	1.63720e-16	(1.00)
Formation of rad11	1.26419e-16	(0.772)	1.26419e-16	(0.772)
Formation of rad6	3.15515e-17	(0.193)	3.15515e-17	(0.193)
H-abstraction	5.75028e-18	(0.0351)	5.75028e-18	(0.0351)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.678389	0.678389	0.678389	0.678389

rad6	0.280377	0.958766	0.280377	0.958766
Benzene+2-propynyl	0.0351226	0.993888	0.0351226	0.993888
rad22	0.00324303	0.997131	0.00324303	0.997131
Indene+H	0.00146703	0.998599	0.00146703	0.998599
rad45	0.000500038	0.999099	0.000500038	0.999099
rad18	0.000301269	0.999400	0.000301269	0.999400
rad23	0.000190128	0.999590	0.000190128	0.999590
rad20	0.000136817	0.999727	0.000136817	0.999727
rad21	9.45532e-05	0.999821	9.45532e-05	0.999821
C2H2+PhCH2	9.02417e-05	0.999912	9.02417e-05	0.999912
rad7	4.81727e-05	0.999960	4.81727e-05	0.999960
rad36	3.20192e-05	0.999992	3.20192e-05	0.999992
rad25	3.79162e-06	0.999996	3.79162e-06	0.999996
PhCHCCH2+H	2.23976e-06	0.999998	2.23976e-06	0.999998
rad13	1.74000e-06	1.000000	1.74000e-06	1.000000
Phenyl+Allene	2.55359e-07	1.000000	0.000000	1.000000
rad9	1.89434e-07	1.000000	1.89434e-07	1.000000
rad3	8.42637e-08	1.000000	8.42637e-08	1.000000
rad4	4.43895e-08	1.000000	4.43895e-08	1.000000
PhCH2CCH+H	9.39055e-09	1.000000	9.39055e-09	1.000000
rad28	8.85874e-09	1.000000	8.85874e-09	1.000000
rad2	5.62903e-09	1.000000	5.62903e-09	1.000000
rad30	5.05827e-09	1.000000	5.05827e-09	1.000000
rad33	2.65597e-09	1.000000	2.65597e-09	1.000000
rad15	1.22168e-09	1.000000	1.22168e-09	1.000000
PhCCH+CH3	6.55152e-10	1.000000	6.55152e-10	1.000000
rad1	4.10719e-10	1.000000	4.10719e-10	1.000000
rad8	2.44066e-10	1.000000	2.44066e-10	1.000000
rad10	3.52827e-11	1.000000	3.52827e-11	1.000000
PAH7+H	2.35377e-11	1.000000	2.35377e-11	1.000000
rad24	2.02649e-11	1.000000	2.02649e-11	1.000000
rad38	9.55854e-12	1.000000	9.55854e-12	1.000000
rad14	7.36496e-12	1.000000	7.36496e-12	1.000000
Ph+MeAc	4.18372e-12	1.000000	4.18372e-12	1.000000
PAH9+H	1.68547e-12	1.000000	1.68547e-12	1.000000
rad60syn	1.66509e-12	1.000000	1.66509e-12	1.000000
rad35	7.37453e-13	1.000000	7.37453e-13	1.000000
PhCCCH3+H	6.90829e-13	1.000000	6.90829e-13	1.000000
rad60anti	6.46549e-13	1.000000	6.46549e-13	1.000000
rad46	2.27399e-13	1.000000	2.27399e-13	1.000000
PAH3+H	5.37052e-14	1.000000	5.37052e-14	1.000000
rad26	2.76650e-14	1.000000	2.76650e-14	1.000000
rad27	2.38593e-14	1.000000	2.38593e-14	1.000000
rad59	1.44759e-14	1.000000	1.44759e-14	1.000000
rad39	3.70040e-15	1.000000	3.70040e-15	1.000000
rad31	9.56820e-17	1.000000	9.56820e-17	1.000000
rad50	8.55773e-17	1.000000	8.55773e-17	1.000000
rad19syn	6.78350e-17	1.000000	6.78350e-17	1.000000
rad5	1.35291e-17	1.000000	1.35291e-17	1.000000
rad70	7.32890e-18	1.000000	7.32890e-18	1.000000
rad54	6.63458e-18	1.000000	6.63458e-18	1.000000
rad12	2.32748e-19	1.000000	2.32748e-19	1.000000
rad52	1.31830e-19	1.000000	1.31830e-19	1.000000
rad62	7.04269e-20	1.000000	7.04269e-20	1.000000
rad37	3.81713e-20	1.000000	3.81713e-20	1.000000
PhcycC3H3_A+H	3.35350e-20	1.000000	3.35350e-20	1.000000
rad34	2.54490e-20	1.000000	2.54490e-20	1.000000
rad55	1.51414e-20	1.000000	1.51414e-20	1.000000
rad51	1.22165e-20	1.000000	1.22165e-20	1.000000
rad58	1.01532e-20	1.000000	1.01532e-20	1.000000
rad43	3.58336e-21	1.000000	3.58336e-21	1.000000
rad65	2.30241e-23	1.000000	2.30241e-23	1.000000
PAH10+CH3	1.20433e-23	1.000000	1.20433e-23	1.000000
PAH1+H	4.26175e-24	1.000000	4.26175e-24	1.000000
rad47	1.43355e-24	1.000000	1.43355e-24	1.000000
rad42	9.21500e-25	1.000000	9.21500e-25	1.000000
rad41	1.23031e-26	1.000000	1.23031e-26	1.000000

10000.0000 Pa, 270.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	2.15887e-16	(1.00)	2.15887e-16	(1.00)
Formation of rad11	1.64133e-16	(0.760)	1.64133e-16	(0.760)
Formation of rad6	4.32452e-17	(0.200)	4.32451e-17	(0.200)
H-abstraction	8.50919e-18	(0.0394)	8.50919e-18	(0.0394)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.658504	0.658504	0.658505	0.658505

rad6	0.295319	0.953823	0.295319	0.953824
Benzene+2-propynyl	0.0394150	0.993238	0.0394151	0.993239
rad22	0.00353092	0.996769	0.00353092	0.996770
Indene+H	0.00171008	0.998479	0.00171008	0.998480
rad45	0.000553200	0.999033	0.000553201	0.999034
rad18	0.000299988	0.999333	0.000299988	0.999334
rad23	0.000233799	0.999566	0.000233799	0.999567
rad20	0.000131178	0.999698	0.000131178	0.999699
C2H2+PhCH2	0.000110253	0.999808	0.000110253	0.999809
rad21	9.05345e-05	0.999898	9.05345e-05	0.999899
rad7	5.57572e-05	0.999954	5.57572e-05	0.999955
rad36	3.56224e-05	0.999990	3.56225e-05	0.999991
rad25	4.10077e-06	0.999994	4.10078e-06	0.999995
PhCHCCH2+H	2.89383e-06	0.999997	2.89383e-06	0.999998
rad13	1.81062e-06	0.999999	1.81062e-06	1.000000
Phenyl+Allene	3.66630e-07	0.999999	0.000000	1.000000
rad9	2.48145e-07	0.999999	2.48145e-07	1.000000
rad3	1.04664e-07	0.999999	1.04664e-07	1.000000
rad4	5.53449e-08	0.999999	5.53449e-08	1.000000
PhCH2CCH+H	1.52534e-08	0.999999	1.52534e-08	1.000000
rad28	1.16988e-08	0.999999	1.16988e-08	1.000000
rad2	8.44206e-09	0.999999	8.44207e-09	1.000000
rad30	6.61234e-09	0.999999	6.61235e-09	1.000000
rad33	2.75645e-09	0.999999	2.75645e-09	1.000000
rad15	1.63265e-09	0.999999	1.63265e-09	1.000000
PhCCH+CH3	1.12085e-09	0.999999	1.12085e-09	1.000000
rad1	6.24065e-10	0.999999	6.24065e-10	1.000000
rad8	3.64572e-10	0.999999	3.64572e-10	1.000000
rad10	6.44770e-11	0.999999	6.44770e-11	1.000000
PAH7+H	4.01060e-11	0.999999	4.01060e-11	1.000000
rad24	2.13900e-11	0.999999	2.13900e-11	1.000000
rad38	1.44284e-11	0.999999	1.44284e-11	1.000000
rad14	1.07376e-11	0.999999	1.07376e-11	1.000000
Ph+MeAc	8.08134e-12	0.999999	8.08135e-12	1.000000
PAH9+H	2.91604e-12	0.999999	2.91604e-12	1.000000
rad60syn	2.55002e-12	0.999999	2.55002e-12	1.000000
PhCCCH3+H	1.48108e-12	0.999999	1.48109e-12	1.000000
rad35	1.25161e-12	0.999999	1.25161e-12	1.000000
rad60anti	1.00612e-12	0.999999	1.00612e-12	1.000000
rad46	3.71487e-13	0.999999	3.71487e-13	1.000000
PAH3+H	1.00661e-13	0.999999	1.00661e-13	1.000000
rad26	6.51028e-14	0.999999	6.51028e-14	1.000000
rad27	3.79433e-14	0.999999	3.79433e-14	1.000000
rad59	2.66028e-14	0.999999	2.66028e-14	1.000000
rad39	7.41646e-15	0.999999	7.41647e-15	1.000000
rad50	1.85401e-16	0.999999	1.85401e-16	1.000000
rad19syn	1.63276e-16	0.999999	1.63276e-16	1.000000
rad31	1.34292e-16	0.999999	1.34292e-16	1.000000
rad5	3.46611e-17	0.999999	3.46611e-17	1.000000
rad70	2.05731e-17	0.999999	2.05731e-17	1.000000
rad54	1.63253e-17	0.999999	1.63254e-17	1.000000
rad12	7.10889e-19	0.999999	7.10889e-19	1.000000
rad52	3.38058e-19	0.999999	3.38058e-19	1.000000
rad62	1.99824e-19	0.999999	1.99824e-19	1.000000
rad37	1.20483e-19	0.999999	1.20483e-19	1.000000
PhcycC3H3_A+H	9.83879e-20	0.999999	9.83879e-20	1.000000
rad34	7.93921e-20	0.999999	7.93922e-20	1.000000
rad55	4.26566e-20	0.999999	4.26566e-20	1.000000
rad51	3.57307e-20	0.999999	3.57307e-20	1.000000
rad58	2.97363e-20	0.999999	2.97363e-20	1.000000
rad43	1.09439e-20	0.999999	1.09439e-20	1.000000
rad65	7.39903e-23	0.999999	7.39903e-23	1.000000
PAH10+CH3	4.21631e-23	0.999999	4.21631e-23	1.000000
PAH1+H	1.35446e-23	0.999999	1.35446e-23	1.000000
rad47	4.23023e-24	0.999999	4.23023e-24	1.000000
rad42	3.06622e-24	0.999999	3.06622e-24	1.000000
rad41	4.38911e-26	0.999999	4.38911e-26	1.000000

10000.0000 Pa, 280.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	2.79491e-16	(1.00)	2.79491e-16	(1.00)
Formation of rad11	2.09281e-16	(0.749)	2.09281e-16	(0.749)
Formation of rad6	5.79792e-17	(0.207)	5.79792e-17	(0.207)
H-abstraction	1.22310e-17	(0.0438)	1.22310e-17	(0.0438)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.638396	0.638396	0.638397	0.638397

rad6	0.310363	0.948760	0.310364	0.948762
Benzene+2-propynyl	0.0437616	0.992521	0.0437616	0.992523
rad22	0.00383346	0.996355	0.00383346	0.996357
Indene+H	0.00198866	0.998343	0.00198866	0.998345
rad45	0.000610380	0.998954	0.000610381	0.998956
rad18	0.000297325	0.999251	0.000297325	0.999253
rad23	0.000286671	0.999538	0.000286672	0.999540
C2H2+PhCH2	0.000134445	0.999672	0.000134445	0.999674
rad20	0.000125572	0.999798	0.000125573	0.999800
rad21	8.65600e-05	0.999884	8.65601e-05	0.999886
rad7	6.42557e-05	0.999949	6.42557e-05	0.999951
rad36	3.95497e-05	0.999988	3.95498e-05	0.999990
rad25	4.40350e-06	0.999993	4.40350e-06	0.999994
PhCHCCH2+H	3.73030e-06	0.999996	3.73030e-06	0.999998
rad13	1.88096e-06	0.999998	1.88097e-06	1.00000
Phenyl+Allene	5.21584e-07	0.999999	0.00000	1.00000
rad9	3.23941e-07	0.999999	3.23942e-07	1.00000
rad3	1.29591e-07	0.999999	1.29592e-07	1.00000
rad4	6.88059e-08	0.999999	6.88060e-08	1.00000
PhCH2CCH+H	2.43122e-08	0.999999	2.43122e-08	1.00000
rad28	1.54442e-08	0.999999	1.54442e-08	1.00000
rad2	1.25997e-08	0.999999	1.25997e-08	1.00000
rad30	8.59329e-09	0.999999	8.59330e-09	1.00000
rad33	2.85707e-09	0.999999	2.85708e-09	1.00000
rad15	2.16748e-09	0.999999	2.16748e-09	1.00000
PhCCH+CH3	1.89809e-09	0.999999	1.89809e-09	1.00000
rad1	9.44592e-10	0.999999	9.44592e-10	1.00000
rad8	5.38733e-10	0.999999	5.38733e-10	1.00000
rad10	1.16380e-10	0.999999	1.16380e-10	1.00000
PAH7+H	6.66688e-11	0.999999	6.66688e-11	1.00000
rad24	2.26714e-11	0.999999	2.26714e-11	1.00000
rad38	2.17248e-11	0.999999	2.17248e-11	1.00000
rad14	1.54180e-11	0.999999	1.54180e-11	1.00000
Ph+MeAc	1.53309e-11	0.999999	1.53310e-11	1.00000
PAH9+H	5.01122e-12	0.999999	5.01122e-12	1.00000
rad60syn	3.85133e-12	0.999999	3.85134e-12	1.00000
PhCCCH3+H	3.10683e-12	0.999999	3.10683e-12	1.00000
rad35	2.10944e-12	0.999999	2.10944e-12	1.00000
rad60anti	1.54212e-12	0.999999	1.54212e-12	1.00000
rad46	6.03435e-13	0.999999	6.03435e-13	1.00000
PAH3+H	1.83079e-13	0.999999	1.83079e-13	1.00000
rad26	1.48908e-13	0.999999	1.48908e-13	1.00000
rad27	5.94979e-14	0.999999	5.94980e-14	1.00000
rad59	4.74997e-14	0.999999	4.74997e-14	1.00000
rad39	1.46036e-14	0.999999	1.46036e-14	1.00000
rad50	3.90383e-16	0.999999	3.90383e-16	1.00000
rad19syn	3.72805e-16	0.999999	3.72805e-16	1.00000
rad31	1.89646e-16	0.999999	1.89646e-16	1.00000
rad5	8.48978e-17	0.999999	8.48978e-17	1.00000
rad70	5.33544e-17	0.999999	5.33544e-17	1.00000
rad54	3.79175e-17	0.999999	3.79175e-17	1.00000
rad12	2.03991e-18	0.999999	2.03991e-18	1.00000
rad52	8.25065e-19	0.999999	8.25065e-19	1.00000
rad62	5.26913e-19	0.999999	5.26914e-19	1.00000
rad37	3.55162e-19	0.999999	3.55163e-19	1.00000
PhcycC3H3_A+H	2.65480e-19	0.999999	2.65480e-19	1.00000
rad34	2.25552e-19	0.999999	2.25552e-19	1.00000
rad55	1.11034e-19	0.999999	1.11034e-19	1.00000
rad51	9.76253e-20	0.999999	9.76252e-20	1.00000
rad58	8.00667e-20	0.999999	8.00668e-20	1.00000
rad43	3.10561e-20	0.999999	3.10562e-20	1.00000
rad65	2.19231e-22	0.999999	2.19231e-22	1.00000
PAH10+CH3	1.35366e-22	0.999999	1.35366e-22	1.00000
PAH1+H	3.92389e-23	0.999999	3.92389e-23	1.00000
rad47	1.15513e-23	0.999999	1.15513e-23	1.00000
rad42	9.27148e-24	0.999999	9.27149e-24	1.00000
rad41	1.42390e-25	0.999999	1.42390e-25	1.00000

10000.0000 Pa, 290.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	3.55893e-16	(1.00)	3.55893e-16	(1.00)
Formation of rad11	2.62555e-16	(0.738)	2.62555e-16	(0.738)
Formation of rad6	7.62093e-17	(0.214)	7.62093e-17	(0.214)
H-abstraction	1.71289e-17	(0.0481)	1.71289e-17	(0.0481)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.618051	0.618051	0.618051	0.618051

rad6	0.325553	0.943604	0.325553	0.943604
Benzene+2-propynyl	0.0481294	0.991733	0.0481294	0.991733
rad22	0.00414881	0.995882	0.00414881	0.995882
Indene+H	0.00230694	0.998189	0.00230694	0.998189
rad45	0.000671453	0.998860	0.000671454	0.998860
rad23	0.000350300	0.999211	0.000350300	0.999211
rad18	0.000293358	0.999504	0.000293358	0.999504
C2H2+PhCH2	0.000163555	0.999667	0.000163555	0.999667
rad20	0.000120016	0.999787	0.000120016	0.999787
rad21	8.26383e-05	0.999870	8.26384e-05	0.999870
rad7	7.37359e-05	0.999944	7.37359e-05	0.999944
rad36	4.38061e-05	0.999988	4.38061e-05	0.999988
PhCHCCH2+H	4.79399e-06	0.999992	4.79399e-06	0.999992
rad25	4.69388e-06	0.999997	4.69388e-06	0.999997
rad13	1.95138e-06	0.999999	1.95138e-06	0.999999
Phenyl+Allene	7.35044e-07	1.000000	0.000000	0.999999
rad9	4.21167e-07	1.000000	4.21168e-07	0.999999
rad3	1.59903e-07	1.000000	1.59903e-07	1.000000
rad4	8.52734e-08	1.000000	8.52734e-08	1.000000
PhCH2CCH+H	3.80485e-08	1.000000	3.80486e-08	1.000000
rad28	2.03798e-08	1.000000	2.03798e-08	1.000000
rad2	1.86921e-08	1.000000	1.86921e-08	1.000000
rad30	1.10988e-08	1.000000	1.10988e-08	1.000000
PhCCH+CH3	3.17600e-09	1.000000	3.17601e-09	1.000000
rad33	2.95841e-09	1.000000	2.95842e-09	1.000000
rad15	2.85758e-09	1.000000	2.85758e-09	1.000000
rad1	1.42262e-09	1.000000	1.42262e-09	1.000000
rad8	7.87309e-10	1.000000	7.87310e-10	1.000000
rad10	2.07011e-10	1.000000	2.07012e-10	1.000000
PAH7+H	1.08250e-10	1.000000	1.08250e-10	1.000000
rad38	3.25975e-11	1.000000	3.25975e-11	1.000000
Ph+MeAc	2.85158e-11	1.000000	2.85159e-11	1.000000
rad24	2.41045e-11	1.000000	2.41045e-11	1.000000
rad14	2.17970e-11	1.000000	2.17970e-11	1.000000
PAH9+H	8.53975e-12	1.000000	8.53975e-12	1.000000
PhCCCH3+H	6.35975e-12	1.000000	6.35975e-12	1.000000
rad60syn	5.73643e-12	1.000000	5.73643e-12	1.000000
rad35	3.52535e-12	1.000000	3.52535e-12	1.000000
rad60anti	2.32845e-12	1.000000	2.32845e-12	1.000000
rad46	9.73621e-13	1.000000	9.73621e-13	1.000000
rad26	3.30023e-13	1.000000	3.30024e-13	1.000000
PAH3+H	3.23540e-13	1.000000	3.23540e-13	1.000000
rad27	9.19787e-14	1.000000	9.19788e-14	1.000000
rad59	8.25079e-14	1.000000	8.25080e-14	1.000000
rad39	2.81622e-14	1.000000	2.81623e-14	1.000000
rad19syn	8.09283e-16	1.000000	8.09283e-16	1.000000
rad50	7.98906e-16	1.000000	7.98906e-16	1.000000
rad31	2.69552e-16	1.000000	2.69552e-16	1.000000
rad5	1.98795e-16	1.000000	1.98795e-16	1.000000
rad70	1.28708e-16	1.000000	1.28708e-16	1.000000
rad54	8.33940e-17	1.000000	8.33940e-17	1.000000
rad12	5.50895e-18	1.000000	5.50896e-18	1.000000
rad52	1.92058e-18	1.000000	1.92058e-18	1.000000
rad62	1.29836e-18	1.000000	1.29836e-18	1.000000
rad37	9.80817e-19	1.000000	9.80817e-19	1.000000
PhcycC3H3_A+H	6.63638e-19	1.000000	6.63638e-19	1.000000
rad34	5.88841e-19	1.000000	5.88841e-19	1.000000
rad55	2.68810e-19	1.000000	2.68810e-19	1.000000
rad51	2.50349e-19	1.000000	2.50349e-19	1.000000
rad58	1.99666e-19	1.000000	1.99666e-19	1.000000
rad43	8.23220e-20	1.000000	8.23220e-20	1.000000
rad65	6.02999e-22	1.000000	6.02999e-22	1.000000
PAH10+CH3	4.01534e-22	1.000000	4.01535e-22	1.000000
PAH1+H	1.04540e-22	1.000000	1.04540e-22	1.000000
rad47	2.94237e-23	1.000000	2.94238e-23	1.000000
rad42	2.57231e-23	1.000000	2.57232e-23	1.000000
rad41	4.24071e-25	1.000000	4.24071e-25	1.000000

10000.0000 Pa, 300.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	6.34395e-16	(1.00)	6.34394e-16	(1.00)
Formation of rad11	4.51153e-16	(0.711)	4.51152e-16	(0.711)
Formation of rad6	1.51589e-16	(0.239)	1.51588e-16	(0.239)
H-abstraction	3.16530e-17	(0.0499)	3.16530e-17	(0.0499)
species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.506806	0.506806	0.506807	0.506807

rad6	0.428513	0.935319	0.428514	0.935320
Benzene+2-propynyl	0.0498949	0.985214	0.0498949	0.985215
rad22	0.00634573	0.991559	0.00634575	0.991561
Indene+H	0.00520075	0.996760	0.00520076	0.996762
rad45	0.00108614	0.997846	0.00108614	0.997848
rad23	0.00103786	0.998884	0.00103786	0.998886
C2H2+PhCH2	0.000506978	0.999391	0.000506979	0.999393
rad18	0.000248121	0.999639	0.000248121	0.999641
rad7	0.000133326	0.999772	0.000133326	0.999774
rad20	9.53963e-05	0.999868	9.53962e-05	0.999870
rad21	6.89901e-05	0.999937	6.89903e-05	0.999939
rad36	3.70680e-05	0.999974	3.70681e-05	0.999976
PhCHCCH2+H	1.39872e-05	0.999988	1.39872e-05	0.999990
rad25	5.71081e-06	0.999994	5.71082e-06	0.999996
rad13	2.31920e-06	0.999996	2.31921e-06	0.999998
Phenyl+Allene	1.81231e-06	0.999998	0.00000	0.999998
rad9	1.33418e-06	0.999999	1.33419e-06	0.999999
rad3	3.85438e-07	0.999999	3.85439e-07	1.000000
PhCH2CCH+H	2.06533e-07	1.000000	2.06534e-07	1.000000
rad4	1.92599e-07	1.000000	1.92600e-07	1.000000
rad2	1.23982e-07	1.000000	1.23983e-07	1.000000
rad28	7.49691e-08	1.000000	7.49693e-08	1.000000
PhCCH+CH3	4.40198e-08	1.000000	4.40199e-08	1.000000
rad30	3.41456e-08	1.000000	3.41456e-08	1.000000
rad1	9.37717e-09	1.000000	9.37718e-09	1.000000
rad10	3.97393e-09	1.000000	3.97394e-09	1.000000
rad33	3.83071e-09	1.000000	3.83072e-09	1.000000
rad15	2.91504e-09	1.000000	2.91504e-09	1.000000
Ph+MeAc	8.99616e-10	1.000000	8.99617e-10	1.000000
PAH7+H	6.57452e-10	1.000000	6.57453e-10	1.000000
PhCCCH3+H	4.91810e-10	1.000000	4.91810e-10	1.000000
rad38	4.71283e-10	1.000000	4.71283e-10	1.000000
PAH9+H	4.61540e-10	1.000000	4.61541e-10	1.000000
rad35	1.35497e-10	1.000000	1.35497e-10	1.000000
rad14	8.32739e-11	1.000000	8.32740e-11	1.000000
rad19anti	8.08339e-11	1.000000	8.08341e-11	1.000000
rad24	5.18133e-11	1.000000	5.18134e-11	1.000000
rad26	4.71462e-11	1.000000	4.71463e-11	1.000000
rad60syn	2.74651e-11	1.000000	2.74651e-11	1.000000
rad46	2.65590e-11	1.000000	2.65590e-11	1.000000
rad60anti	1.18159e-11	1.000000	1.18159e-11	1.000000
PAH3+H	3.01187e-12	1.000000	3.01188e-12	1.000000
rad39	1.07874e-12	1.000000	1.07874e-12	1.000000
rad27	7.01235e-13	1.000000	7.01235e-13	1.000000
rad59	6.23745e-13	1.000000	6.23746e-13	1.000000
rad50	2.14387e-13	1.000000	2.14387e-13	1.000000
rad19syn	3.66772e-14	1.000000	3.66773e-14	1.000000
rad12	2.96439e-14	1.000000	2.96440e-14	1.000000
rad5	2.40585e-14	1.000000	2.40586e-14	1.000000
rad37	9.21969e-15	1.000000	9.21971e-15	1.000000
rad54	3.92845e-15	1.000000	3.92846e-15	1.000000
rad52	2.77250e-15	1.000000	2.77251e-15	1.000000
rad70	2.70840e-15	1.000000	2.70840e-15	1.000000
rad31	2.10538e-15	1.000000	2.10538e-15	1.000000
rad51	1.73826e-15	1.000000	1.73826e-15	1.000000
rad67	8.15067e-16	1.000000	8.15069e-16	1.000000
rad62	2.90557e-16	1.000000	2.90557e-16	1.000000
PhcycC3H3_A+H	2.38552e-16	1.000000	2.38552e-16	1.000000
rad43	1.72314e-16	1.000000	1.72314e-16	1.000000
PAH10+CH3	1.21002e-16	1.000000	1.21002e-16	1.000000
rad55	3.57602e-17	1.000000	3.57602e-17	1.000000
rad65	3.47745e-17	1.000000	3.47746e-17	1.000000
rad34	2.79961e-17	1.000000	2.79961e-17	1.000000
rad58	5.62295e-18	1.000000	5.62296e-18	1.000000
PAH1+H	2.32860e-18	1.000000	2.32860e-18	1.000000
rad42	1.91538e-19	1.000000	1.91539e-19	1.000000
rad41	1.34253e-19	1.000000	1.34253e-19	1.000000
rad53	1.40770e-20	1.000000	1.40770e-20	1.000000
rad47	9.62818e-21	1.000000	9.62817e-21	1.000000
rad73	6.04416e-21	1.000000	6.04417e-21	1.000000
rad64	2.16777e-21	1.000000	2.16777e-21	1.000000
rad71	8.49023e-22	1.000000	8.49025e-22	1.000000
rad56	4.35033e-22	1.000000	4.35034e-22	1.000000
rad61	1.41226e-22	1.000000	1.41226e-22	1.000000
rad68syn	1.00868e-22	1.000000	1.00868e-22	1.000000
rad68anti	7.08446e-23	1.000000	7.08448e-23	1.000000
PAH8+H	6.11453e-24	1.000000	6.11454e-24	1.000000
rad40syn	4.88268e-24	1.000000	4.88268e-24	1.000000
rad40anti	2.73587e-24	1.000000	2.73588e-24	1.000000
rad72	5.27576e-26	1.000000	5.27577e-26	1.000000

rad8 | 4.72578e-32 1.00000 | 4.72578e-32 1.00000

10000.0000 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.11288e-15 (1.00)	5.11279e-15 (1.00)
Formation of rad11	3.08094e-15 (0.603)	3.08087e-15 (0.603)
Formation of rad6	1.54092e-15 (0.301)	1.54089e-15 (0.301)
H-abstraction	4.91025e-16 (0.0960)	4.91025e-16 (0.0960)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.602101	0.602101	0.602112	0.602112
rad11	0.273602	0.875703	0.273607	0.875719
Benzene+2-propynyl	0.0960368	0.971739	0.0960386	0.971758
Indene+H	0.0135040	0.985243	0.0135043	0.985262
rad22	0.00749064	0.992734	0.00749078	0.992753
rad23	0.00320214	0.995936	0.00320220	0.995955
C2H2+PhCH2	0.00182017	0.997756	0.00182020	0.997775
rad45	0.00150366	0.999260	0.00150369	0.999279
rad7	0.000334137	0.999594	0.000334144	0.999613
rad18	0.000138362	0.999733	0.000138365	0.999751
PhCHCCH2+H	7.94197e-05	0.999812	7.94212e-05	0.999831
rad36	5.76657e-05	0.999870	5.76669e-05	0.999888
rad20	4.91145e-05	0.999919	4.91154e-05	0.999937
rad21	3.56988e-05	0.999954	3.56994e-05	0.999973
Phenyl+Allene	1.89158e-05	0.999973	0.000000	0.999973
rad9	7.86481e-06	0.999981	7.86496e-06	0.999981
rad25	4.87768e-06	0.999986	4.87778e-06	0.999986
PhCH2CCH+H	3.55355e-06	0.999990	3.55362e-06	0.999989
rad13	3.10806e-06	0.999993	3.10812e-06	0.999993
rad2	1.74433e-06	0.999994	1.74437e-06	0.999994
PhCCH+CH3	1.62259e-06	0.999996	1.62262e-06	0.999996
rad3	1.54448e-06	0.999998	1.54450e-06	0.999997
rad28	9.53916e-07	0.999999	9.53941e-07	0.999998
rad4	8.16663e-07	0.999999	8.16679e-07	0.999999
rad30	1.67182e-07	1.000000	1.67185e-07	0.999999
rad1	1.62828e-07	1.000000	1.62831e-07	1.000000
rad10	1.31709e-07	1.000000	1.31712e-07	1.000000
Ph+MeAc	1.06993e-07	1.000000	1.06995e-07	1.000000
PhCCCH3+H	7.91427e-08	1.000000	7.91442e-08	1.000000
PAH9+H	6.61509e-08	1.000000	6.61521e-08	1.000000
rad38	3.19954e-08	1.000000	3.19960e-08	1.000000
rad15	1.65165e-08	1.000000	1.65167e-08	1.000000
rad35	1.55031e-08	1.000000	1.55033e-08	1.000000
PAH7+H	1.30792e-08	1.000000	1.30794e-08	1.000000
rad26	7.85589e-09	1.000000	7.85604e-09	1.000000
rad33	5.46979e-09	1.000000	5.46990e-09	1.000000
rad46	3.83731e-09	1.000000	3.83738e-09	1.000000
rad19anti	3.10715e-09	1.000000	3.10720e-09	1.000000
rad14	5.11858e-10	1.000000	5.11868e-10	1.000000
rad60syn	3.19412e-10	1.000000	3.19417e-10	1.000000
rad39	2.62970e-10	1.000000	2.62975e-10	1.000000
rad50	2.30093e-10	1.000000	2.30097e-10	1.000000
rad60anti	1.48904e-10	1.000000	1.48906e-10	1.000000
PAH3+H	9.66174e-11	1.000000	9.66190e-11	1.000000
rad24	8.20040e-11	1.000000	8.20056e-11	1.000000
rad59	1.81249e-11	1.000000	1.81252e-11	1.000000
rad37	1.31165e-11	1.000000	1.31168e-11	1.000000
rad27	1.03093e-11	1.000000	1.03096e-11	1.000000
rad51	9.27783e-12	1.000000	9.27799e-12	1.000000
rad52	7.23021e-12	1.000000	7.23034e-12	1.000000
rad19syn	6.86788e-12	1.000000	6.86801e-12	1.000000
rad5	2.41355e-12	1.000000	2.41359e-12	1.000000
rad54	1.04017e-12	1.000000	1.04020e-12	1.000000
rad70	7.01930e-13	1.000000	7.01943e-13	1.000000
PAH10+CH3	4.82014e-13	1.000000	4.82024e-13	1.000000
rad67	2.62800e-13	1.000000	2.62805e-13	1.000000
rad65	2.61469e-13	1.000000	2.61474e-13	1.000000
rad12	2.57436e-13	1.000000	2.57440e-13	1.000000
PhcycC3H3_A+H	1.58523e-13	1.000000	1.58526e-13	1.000000
rad43	1.50166e-13	1.000000	1.50170e-13	1.000000
rad31	1.10621e-13	1.000000	1.10622e-13	1.000000
rad62	9.71046e-14	1.000000	9.71072e-14	1.000000
PAH1+H	4.02602e-14	1.000000	4.02609e-14	1.000000
rad34	1.97604e-14	1.000000	1.97608e-14	1.000000
rad55	1.85906e-14	1.000000	1.85910e-14	1.000000
rad58	9.48276e-15	1.000000	9.48292e-15	1.000000
rad73	1.71688e-15	1.000000	1.71691e-15	1.000000

rad71	6.40215e-16	1.00000	6.40227e-16	1.000000
rad41	3.49960e-16	1.00000	3.49967e-16	1.000000
rad42	2.50266e-16	1.00000	2.50271e-16	1.000000
rad64	2.37316e-16	1.00000	2.37321e-16	1.000000
rad53	1.48814e-16	1.00000	1.48817e-16	1.000000
rad56	4.55823e-17	1.00000	4.55831e-17	1.000000
rad68syn	1.26687e-17	1.00000	1.26689e-17	1.000000
rad61	1.09879e-17	1.00000	1.09881e-17	1.000000
rad47	1.06223e-17	1.00000	1.06225e-17	1.000000
rad68anti	8.55249e-18	1.00000	8.55265e-18	1.000000
PAH8+H	5.07830e-18	1.00000	5.07839e-18	1.000000
rad40syn	1.42900e-18	1.00000	1.42904e-18	1.000000
rad72	8.61305e-19	1.00000	8.61322e-19	1.000000
rad40anti	6.22854e-19	1.00000	6.22866e-19	1.000000
rad8	5.88079e-30	1.00000	5.88090e-30	1.000000

10000.0000 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.11551e-14 (1.00)	2.11527e-14 (1.00)
Formation of rad11	1.10850e-14 (0.524)	1.10836e-14 (0.524)
Formation of rad6	7.08033e-15 (0.335)	7.07940e-15 (0.335)
H-abstraction	2.98976e-15 (0.141)	2.98976e-15 (0.141)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.704522	0.704522	0.704600	0.704600
Benzene+2-propynyl	0.141326	0.845847	0.141342	0.845942
rad11	0.112197	0.958044	0.112209	0.958152
Indene+H	0.0249560	0.983000	0.0249588	0.983110
rad22	0.00528064	0.988281	0.00528124	0.988392
C2H2+PhCH2	0.00452533	0.992806	0.00452583	0.992917
rad23	0.00445671	0.997263	0.00445721	0.997375
rad45	0.00150599	0.998769	0.00150616	0.998881
rad7	0.000529232	0.999298	0.000529292	0.999410
PhCHCCH2+H	0.000301220	0.999599	0.000301254	0.999711
Phenyl+Allene	0.000112636	0.999712	0.000000	0.999711
rad36	7.00802e-05	0.999782	7.00881e-05	0.999781
rad18	5.83000e-05	0.999840	5.83066e-05	0.999840
PhCH2CCH+H	3.01667e-05	0.999871	3.01701e-05	0.999870
rad9	2.74686e-05	0.999898	2.74717e-05	0.999897
PhCCH+CH3	2.33244e-05	0.999921	2.33271e-05	0.999921
rad20	2.22112e-05	0.999944	2.22137e-05	0.999943
rad21	1.65897e-05	0.999960	1.65915e-05	0.999960
rad28	8.70215e-06	0.999969	8.70310e-06	0.999968
rad2	6.82038e-06	0.999976	6.82115e-06	0.999975
rad13	3.70437e-06	0.999979	3.70478e-06	0.999979
rad3	3.46185e-06	0.999983	3.46224e-06	0.999982
Ph+MeAc	3.13116e-06	0.999986	3.13152e-06	0.999985
PAH9+H	2.88124e-06	0.999989	2.88156e-06	0.999988
rad25	2.59724e-06	0.999991	2.59754e-06	0.999991
PhCCCH3+H	2.08751e-06	0.999994	2.08775e-06	0.999993
rad4	1.95511e-06	0.999996	1.95533e-06	0.999995
rad38	1.23477e-06	0.999997	1.23491e-06	0.999996
rad1	8.16398e-07	0.999998	8.16491e-07	0.999997
rad10	7.04424e-07	0.999998	7.04503e-07	0.999998
rad35	5.62826e-07	0.999999	5.62889e-07	0.999998
rad30	5.33664e-07	0.999999	5.33725e-07	0.999999
PAH7+H	2.69758e-07	1.000000	2.69788e-07	0.999999
rad46	2.39291e-07	1.000000	2.39318e-07	0.999999
rad26	1.41876e-07	1.000000	1.41892e-07	0.999999
rad19anti	8.55589e-08	1.000000	8.55686e-08	0.999999
rad15	5.64529e-08	1.000000	5.64592e-08	1.000000
rad50	5.08297e-08	1.000000	5.08354e-08	1.000000
rad39	3.78242e-08	1.000000	3.78284e-08	1.000000
rad33	7.69851e-09	1.000000	7.69937e-09	1.000000
rad51	5.63206e-09	1.000000	5.63270e-09	1.000000
PAH3+H	2.79507e-09	1.000000	2.79539e-09	1.000000
rad52	2.70400e-09	1.000000	2.70430e-09	1.000000
rad60syn	2.29735e-09	1.000000	2.29761e-09	1.000000
rad37	1.59514e-09	1.000000	1.59532e-09	1.000000
rad60anti	1.16157e-09	1.000000	1.16170e-09	1.000000
rad14	1.15138e-09	1.000000	1.15150e-09	1.000000
rad19syn	7.12986e-10	1.000000	7.13066e-10	1.000000
rad59	4.01981e-10	1.000000	4.02026e-10	1.000000
PAH10+CH3	2.85404e-10	1.000000	2.85436e-10	1.000000
rad54	1.72339e-10	1.000000	1.72358e-10	1.000000
rad65	1.63608e-10	1.000000	1.63626e-10	1.000000
rad24	1.48154e-10	1.000000	1.48171e-10	1.000000

PhcycC3H3_A+H	9.06159e-11	1.00000	9.06262e-11	1.000000
PAH1+H	8.68060e-11	1.00000	8.68164e-11	1.000000
rad67	7.51959e-11	1.00000	7.52043e-11	1.000000
rad70	5.51842e-11	1.00000	5.51904e-11	1.000000
rad27	3.78269e-11	1.00000	3.78312e-11	1.000000
rad5	2.22006e-11	1.00000	2.22031e-11	1.000000
rad73	1.73011e-11	1.00000	1.73030e-11	1.000000
rad71	1.45368e-11	1.00000	1.45385e-11	1.000000
rad43	1.39335e-11	1.00000	1.39351e-11	1.000000
rad62	9.07138e-12	1.00000	9.07241e-12	1.000000
rad55	6.78671e-12	1.00000	6.78748e-12	1.000000
rad58	6.19248e-12	1.00000	6.19318e-12	1.000000
rad31	5.38674e-12	1.00000	5.38734e-12	1.000000
rad34	5.08640e-12	1.00000	5.08698e-12	1.000000
rad12	2.13701e-12	1.00000	2.13725e-12	1.000000
rad64	1.03261e-12	1.00000	1.03273e-12	1.000000
rad53	4.76233e-13	1.00000	4.76286e-13	1.000000
rad56	2.97786e-13	1.00000	2.97820e-13	1.000000
rad72	1.80632e-13	1.00000	1.80652e-13	1.000000
PAH8+H	1.36981e-13	1.00000	1.36996e-13	1.000000
rad61	1.17154e-13	1.00000	1.17167e-13	1.000000
rad42	9.83088e-14	1.00000	9.83198e-14	1.000000
rad68syn	8.86341e-14	1.00000	8.86445e-14	1.000000
rad41	8.60649e-14	1.00000	8.60745e-14	1.000000
rad68anti	5.84684e-14	1.00000	5.84750e-14	1.000000
rad40syn	2.15888e-14	1.00000	2.15912e-14	1.000000
rad47	1.30434e-14	1.00000	1.30449e-14	1.000000
rad40anti	1.14569e-14	1.00000	1.14583e-14	1.000000
rad8	4.38296e-27	1.00000	4.38345e-27	1.000000

10000.0000 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.08120e-14 (1.00)	6.07823e-14 (1.00)
Formation of rad11	2.83304e-14 (0.466)	2.83135e-14 (0.466)
Formation of rad6	2.13840e-14 (0.352)	2.13713e-14 (0.352)
H-abstraction	1.10975e-14 (0.182)	1.10975e-14 (0.183)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.727594	0.727594	0.727949	0.727949
Benzene+2-propynyl	0.182488	0.910083	0.182577	0.910527
rad11	0.0369698	0.947052	0.0369877	0.947514
Indene+H	0.0348813	0.981934	0.0348984	0.982413
C2H2+PhCH2	0.00862107	0.990555	0.00862528	0.991038
rad23	0.00325754	0.993812	0.00325913	0.994297
rad22	0.00246107	0.996273	0.00246227	0.996759
rad45	0.00103998	0.997313	0.00104048	0.997800
PhCHCCH2+H	0.000868524	0.998182	0.000868945	0.998669
rad7	0.000626471	0.998808	0.000626776	0.999296
Phenyl+Allene	0.000487532	0.999296	0.000000	0.999296
PhCCH+CH3	0.000180073	0.999476	0.000180162	0.999476
PhCH2CCH+H	0.000163975	0.999640	0.000164055	0.999640
rad36	6.13243e-05	0.999701	6.13542e-05	0.999701
rad9	5.41695e-05	0.999756	5.41959e-05	0.999755
rad28	5.14651e-05	0.999807	5.14903e-05	0.999807
PAH9+H	3.55287e-05	0.999843	3.55461e-05	0.999842
Ph+MeAc	2.79085e-05	0.999870	2.79222e-05	0.999870
rad18	2.12899e-05	0.999892	2.13002e-05	0.999892
rad38	1.60111e-05	0.999908	1.60190e-05	0.999908
PhCCCH3+H	1.47697e-05	0.999923	1.47769e-05	0.999922
rad2	1.42787e-05	0.999937	1.42857e-05	0.999937
rad20	1.05409e-05	0.999947	1.05461e-05	0.999947
rad21	8.42070e-06	0.999956	8.42477e-06	0.999956
PAH7+H	6.45059e-06	0.999962	6.45374e-06	0.999962
rad3	6.44490e-06	0.999969	6.44805e-06	0.999969
rad35	5.87864e-06	0.999975	5.88150e-06	0.999974
rad46	4.40197e-06	0.999979	4.40412e-06	0.999979
rad13	4.34118e-06	0.999983	4.34330e-06	0.999983
rad4	3.93566e-06	0.999987	3.93758e-06	0.999987
rad50	2.53398e-06	0.999990	2.53522e-06	0.999990
rad1	2.11734e-06	0.999992	2.11837e-06	0.999992
rad39	1.69944e-06	0.999994	1.70026e-06	0.999993
rad30	1.32143e-06	0.999995	1.32207e-06	0.999995
rad19anti	1.25244e-06	0.999996	1.25306e-06	0.999996
rad10	1.14099e-06	0.999997	1.14155e-06	0.999997
rad25	1.09654e-06	0.999998	1.09707e-06	0.999998
rad51	5.84180e-07	0.999999	5.84465e-07	0.999999
rad26	5.40887e-07	0.999999	5.41151e-07	0.999999

rad52	1.94628e-07	1.000000	1.94723e-07	1.000000
rad15	1.06538e-07	1.000000	1.06590e-07	1.000000
PAH3+H	9.09302e-08	1.000000	9.09751e-08	1.000000
rad37	4.21781e-08	1.000000	4.21987e-08	1.000000
PAH10+CH3	3.98310e-08	1.000000	3.98503e-08	1.000000
rad19syn	2.48154e-08	1.000000	2.48275e-08	1.000000
PAH1+H	1.75686e-08	1.000000	1.75772e-08	1.000000
rad60syn	1.62564e-08	1.000000	1.62643e-08	1.000000
rad65	1.59120e-08	1.000000	1.59197e-08	1.000000
rad33	1.27630e-08	1.000000	1.27692e-08	1.000000
rad71	1.21433e-08	1.000000	1.21492e-08	1.000000
rad59	9.74122e-09	1.000000	9.74597e-09	1.000000
rad73	9.54543e-09	1.000000	9.55003e-09	1.000000
rad60anti	9.17632e-09	1.000000	9.18080e-09	1.000000
rad54	7.29051e-09	1.000000	7.29407e-09	1.000000
rad67	6.95999e-09	1.000000	6.96339e-09	1.000000
PhcycC3H3_A+H	6.18099e-09	1.000000	6.18401e-09	1.000000
rad70	3.09613e-09	1.000000	3.09764e-09	1.000000
rad14	1.66796e-09	1.000000	1.66878e-09	1.000000
rad58	7.08164e-10	1.000000	7.08509e-10	1.000000
rad34	6.47410e-10	1.000000	6.47727e-10	1.000000
rad24	5.42395e-10	1.000000	5.42659e-10	1.000000
rad62	3.77357e-10	1.000000	3.77541e-10	1.000000
rad55	3.73729e-10	1.000000	3.73911e-10	1.000000
rad72	3.45160e-10	1.000000	3.45328e-10	1.000000
rad43	3.21723e-10	1.000000	3.21880e-10	1.000000
rad64	3.05706e-10	1.000000	3.05855e-10	1.000000
PAH8+H	1.36955e-10	1.000000	1.37022e-10	1.000000
rad31	8.50310e-11	1.000000	8.50725e-11	1.000000
rad61	6.23984e-11	1.000000	6.24289e-11	1.000000
rad53	6.01688e-11	1.000000	6.01981e-11	1.000000
rad27	5.74250e-11	1.000000	5.74530e-11	1.000000
rad56	5.68880e-11	1.000000	5.69158e-11	1.000000
rad5	4.75099e-11	1.000000	4.75330e-11	1.000000
rad68syn	4.40070e-11	1.000000	4.40284e-11	1.000000
rad68anti	2.86485e-11	1.000000	2.86624e-11	1.000000
rad12	2.05204e-11	1.000000	2.05304e-11	1.000000
rad40syn	1.64550e-11	1.000000	1.64630e-11	1.000000
rad42	1.50050e-11	1.000000	1.50124e-11	1.000000
rad40anti	9.78292e-12	1.000000	9.78774e-12	1.000000
rad41	6.50071e-12	1.000000	6.50388e-12	1.000000
rad47	4.57945e-12	1.000000	4.58168e-12	1.000000
rad8	1.70985e-23	1.000000	1.71069e-23	1.000000

10000.0000 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.39564e-13 (1.00)	1.39293e-13 (1.00)
Formation of rad11	5.88273e-14 (0.422)	5.86813e-14 (0.421)
Formation of rad6	5.01684e-14 (0.359)	5.00439e-14 (0.359)
H-abstraction	3.05678e-14 (0.219)	3.05678e-14 (0.219)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.702785	0.702785	0.704150	0.704150
Benzene+2-propynyl	0.219024	0.921809	0.219450	0.923600
Indene+H	0.0417864	0.963596	0.0418675	0.965467
C2H2+PhCH2	0.0146000	0.978196	0.0146284	0.980096
rad11	0.0112086	0.989405	0.0112304	0.991326
PhCHCCH2+H	0.00225563	0.991660	0.00226001	0.993586
Phenyl+Allene	0.00193881	0.993599	0.000000	0.993586
rad23	0.00171822	0.995317	0.00172156	0.995308
PhCCH+CH3	0.000951439	0.996269	0.000953286	0.996261
rad22	0.000908962	0.997178	0.000910730	0.997172
PhCH2CCH+H	0.000701625	0.997879	0.000702988	0.997875
rad7	0.000649766	0.998529	0.000651027	0.998526
rad45	0.000487008	0.999016	0.000487954	0.999014
rad28	0.000185897	0.999202	0.000186259	0.999200
PAH9+H	0.000161000	0.999363	0.000161313	0.999361
Ph+MeAc	0.000147963	0.999511	0.000148251	0.999510
rad38	7.58447e-05	0.999587	7.59920e-05	0.999586
rad9	7.19241e-05	0.999659	7.20638e-05	0.999658
PAH7+H	6.34337e-05	0.999722	6.35570e-05	0.999721
PhCCCH3+H	6.10910e-05	0.999783	6.12097e-05	0.999782
rad36	3.50033e-05	0.999818	3.50712e-05	0.999817
rad46	2.46688e-05	0.999843	2.47167e-05	0.999842
rad35	2.41767e-05	0.999867	2.42236e-05	0.999866
rad2	2.28206e-05	0.999890	2.28649e-05	0.999889
rad50	2.13780e-05	0.999911	2.14195e-05	0.999911

rad39	1.82644e-05	0.999930	1.83000e-05	0.999929
rad3	8.34535e-06	0.999938	8.36157e-06	0.999937
rad18	8.33434e-06	0.999946	8.35056e-06	0.999946
rad19anti	7.85146e-06	0.999954	7.86670e-06	0.999954
rad20	7.12570e-06	0.999961	7.13954e-06	0.999961
rad21	6.39686e-06	0.999968	6.40929e-06	0.999967
rad51	6.16269e-06	0.999974	6.17466e-06	0.999973
rad13	5.85505e-06	0.999980	5.86643e-06	0.999979
rad4	5.54683e-06	0.999985	5.55760e-06	0.999985
rad1	4.02199e-06	0.999989	4.02980e-06	0.999989
rad30	2.95070e-06	0.999992	2.95643e-06	0.999992
rad52	1.84028e-06	0.999994	1.84385e-06	0.999993
rad10	1.31259e-06	0.999995	1.31514e-06	0.999995
rad26	1.20851e-06	0.999996	1.21085e-06	0.999996
PAH3+H	7.41353e-07	0.999997	7.42793e-07	0.999997
rad25	4.93463e-07	0.999998	4.94422e-07	0.999997
PAH10+CH3	4.76602e-07	0.999998	4.77528e-07	0.999998
rad37	3.27243e-07	0.999998	3.27878e-07	0.999998
rad19syn	2.93691e-07	0.999999	2.94261e-07	0.999998
PAH1+H	2.22518e-07	0.999999	2.22950e-07	0.999999
rad71	2.00247e-07	0.999999	2.00636e-07	0.999999
rad65	1.63079e-07	0.999999	1.63396e-07	0.999999
rad73	1.46002e-07	1.000000	1.46286e-07	0.999999
rad15	1.00229e-07	1.000000	1.00424e-07	0.999999
rad54	8.54419e-08	1.000000	8.56076e-08	0.999999
rad67	8.51677e-08	1.000000	8.53329e-08	0.999999
rad60syn	8.02788e-08	1.000000	8.04349e-08	0.999999
rad59	7.27980e-08	1.000000	7.29395e-08	1.000000
PhcycC3H3_A+H	6.57810e-08	1.000000	6.59087e-08	1.000000
rad60anti	4.77731e-08	1.000000	4.78660e-08	1.000000
rad70	3.58316e-08	1.000000	3.59013e-08	1.000000
rad33	3.17000e-08	1.000000	3.17616e-08	1.000000
rad34	8.29951e-09	1.000000	8.31567e-09	1.000000
rad58	7.62723e-09	1.000000	7.64205e-09	1.000000
rad72	6.48799e-09	1.000000	6.50060e-09	1.000000
rad62	6.05057e-09	1.000000	6.06232e-09	1.000000
rad24	5.44910e-09	1.000000	5.45969e-09	1.000000
rad55	4.16390e-09	1.000000	4.17199e-09	1.000000
rad64	4.12874e-09	1.000000	4.13676e-09	1.000000
rad43	3.85790e-09	1.000000	3.86539e-09	1.000000
PAH8+H	2.40039e-09	1.000000	2.40505e-09	1.000000
rad14	2.21677e-09	1.000000	2.22107e-09	1.000000
rad61	9.50408e-10	1.000000	9.52248e-10	1.000000
rad68syn	6.81329e-10	1.000000	6.82652e-10	1.000000
rad56	6.22706e-10	1.000000	6.23916e-10	1.000000
rad53	6.13485e-10	1.000000	6.14676e-10	1.000000
rad68anti	4.42573e-10	1.000000	4.43433e-10	1.000000
rad31	4.05921e-10	1.000000	4.06710e-10	1.000000
rad42	3.35475e-10	1.000000	3.36127e-10	1.000000
rad40syn	2.79760e-10	1.000000	2.80304e-10	1.000000
rad12	2.67413e-10	1.000000	2.67932e-10	1.000000
rad47	2.67280e-10	1.000000	2.67800e-10	1.000000
rad40anti	1.71839e-10	1.000000	1.72172e-10	1.000000
rad41	1.61159e-10	1.000000	1.61472e-10	1.000000
rad27	8.60627e-11	1.000000	8.62297e-11	1.000000
rad5	6.47335e-11	1.000000	6.48593e-11	1.000000
rad8	1.60494e-19	1.000000	1.60805e-19	1.000000

10000.0000 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.75392e-13 (1.00)	2.73404e-13 (1.00)
Formation of rad11	1.06471e-13 (0.387)	1.05444e-13 (0.386)
Formation of rad6	9.97133e-14 (0.362)	9.87519e-14 (0.361)
H-abstraction	6.92082e-14 (0.251)	6.92082e-14 (0.253)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.646833	0.646833	0.651537	0.651537
Benzene+2-propynyl	0.251308	0.898141	0.253135	0.904672
Indene+H	0.0498982	0.948039	0.0502610	0.954933
C2H2+PhCH2	0.0243541	0.972393	0.0245311	0.979464
Phenyl+Allene	0.00721836	0.979612	0.000000	0.979464
PhCHCCH2+H	0.00567609	0.985288	0.00571736	0.985181
rad11	0.00402415	0.989312	0.00405342	0.989234
PhCCH+CH3	0.00349356	0.992806	0.00351895	0.992753
PhCH2CCH+H	0.00253573	0.995341	0.00255417	0.995308
rad23	0.000889566	0.996231	0.000896036	0.996204
rad7	0.000656347	0.996887	0.000661119	0.996865

Ph+MeAc	0.000530297	0.997417	0.000534153	0.997399
rad28	0.000409756	0.997827	0.000412736	0.997812
rad22	0.000348620	0.998176	0.000351154	0.998163
PAH9+H	0.000344034	0.998520	0.000346536	0.998509
PAH7+H	0.000312624	0.998833	0.000314897	0.998824
rad45	0.000292900	0.999125	0.000295030	0.999119
PhCCCH3+H	0.000177989	0.999303	0.000179283	0.999299
rad38	0.000164824	0.999468	0.000166022	0.999465
rad9	0.000111363	0.999580	0.000112172	0.999577
rad39	8.11642e-05	0.999661	8.17541e-05	0.999658
rad46	5.67070e-05	0.999717	5.71193e-05	0.999716
rad50	5.58327e-05	0.999773	5.62386e-05	0.999772
rad35	4.99700e-05	0.999823	5.03333e-05	0.999822
rad19anti	2.90887e-05	0.999852	2.93002e-05	0.999851
rad2	2.59894e-05	0.999878	2.61784e-05	0.999878
rad36	2.45585e-05	0.999903	2.47371e-05	0.999902
rad51	1.71494e-05	0.999920	1.72741e-05	0.999920
rad13	1.06823e-05	0.999931	1.07599e-05	0.999930
rad21	9.40380e-06	0.999940	9.47219e-06	0.999940
rad20	9.00452e-06	0.999949	9.07000e-06	0.999949
rad3	8.65653e-06	0.999958	8.71943e-06	0.999958
rad4	6.11773e-06	0.999964	6.16221e-06	0.999964
rad30	5.92900e-06	0.999970	5.97210e-06	0.999970
rad1	5.10702e-06	0.999975	5.14415e-06	0.999975
rad52	4.96038e-06	0.999980	4.99645e-06	0.999980
rad18	4.83905e-06	0.999985	4.87424e-06	0.999985
rad26	2.16508e-06	0.999987	2.18083e-06	0.999987
rad19syn	2.03596e-06	0.999989	2.05076e-06	0.999989
PAH3+H	2.02867e-06	0.999991	2.04342e-06	0.999991
PAH10+CH3	1.51326e-06	0.999993	1.52427e-06	0.999993
rad10	1.37149e-06	0.999994	1.38146e-06	0.999994
rad37	1.06085e-06	0.999995	1.06856e-06	0.999995
PAH1+H	6.97223e-07	0.999996	7.02292e-07	0.999996
rad71	6.34098e-07	0.999996	6.38709e-07	0.999996
rad54	5.97221e-07	0.999997	6.01563e-07	0.999997
rad73	4.52182e-07	0.999997	4.55469e-07	0.999997
rad65	4.49492e-07	0.999998	4.52761e-07	0.999998
rad67	4.26539e-07	0.999998	4.29640e-07	0.999998
PhcycC3H3_A+H	3.84073e-07	0.999999	3.86866e-07	0.999999
rad25	3.41208e-07	0.999999	3.43689e-07	0.999999
rad60syn	2.12063e-07	0.999999	2.13605e-07	0.999999
rad59	1.98424e-07	0.999999	1.99866e-07	0.999999
rad70	1.40169e-07	0.999999	1.41189e-07	1.000000
rad33	1.39762e-07	1.000000	1.40778e-07	1.000000
rad60anti	1.27103e-07	1.000000	1.28028e-07	1.000000
rad15	8.24101e-08	1.000000	8.30088e-08	1.000000
rad24	5.36854e-08	1.000000	5.40757e-08	1.000000
rad62	3.69940e-08	1.000000	3.72630e-08	1.000000
rad34	2.90712e-08	1.000000	2.92826e-08	1.000000
rad55	2.75209e-08	1.000000	2.77210e-08	1.000000
rad43	2.15984e-08	1.000000	2.17554e-08	1.000000
rad58	2.15171e-08	1.000000	2.16736e-08	1.000000
rad72	2.13667e-08	1.000000	2.15220e-08	1.000000
rad64	1.25756e-08	1.000000	1.26670e-08	1.000000
PAH8+H	8.13432e-09	1.000000	8.19348e-09	1.000000
rad12	4.38761e-09	1.000000	4.41951e-09	1.000000
rad14	3.59310e-09	1.000000	3.61923e-09	1.000000
rad61	3.10495e-09	1.000000	3.12753e-09	1.000000
rad53	2.34809e-09	1.000000	2.36516e-09	1.000000
rad42	2.27923e-09	1.000000	2.29580e-09	1.000000
rad68syn	2.15230e-09	1.000000	2.16796e-09	1.000000
rad56	2.03504e-09	1.000000	2.04984e-09	1.000000
rad47	1.60833e-09	1.000000	1.62002e-09	1.000000
rad68anti	1.39782e-09	1.000000	1.40799e-09	1.000000
rad41	1.24263e-09	1.000000	1.25167e-09	1.000000
rad31	1.05992e-09	1.000000	1.06762e-09	1.000000
rad40syn	9.73173e-10	1.000000	9.80253e-10	1.000000
rad40anti	6.29319e-10	1.000000	6.33895e-10	1.000000
rad27	1.70590e-10	1.000000	1.71830e-10	1.000000
rad5	7.66751e-11	1.000000	7.72326e-11	1.000000
rad8	9.56941e-16	1.000000	9.63897e-16	1.000000

10000.0000 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.88072e-13 (1.00)	4.76940e-13 (1.00)
Formation of rad11	1.74945e-13 (0.358)	1.69404e-13 (0.355)
Formation of rad6	1.76509e-13 (0.362)	1.70918e-13 (0.358)
H-abstraction	1.36618e-13 (0.280)	1.36618e-13 (0.286)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.551933	0.551933	0.564814	0.564814
Benzene+2-propynyl	0.279914	0.831847	0.286447	0.851261
Indene+H	0.0648922	0.896739	0.0664067	0.917668
C2H2+PhCH2	0.0408874	0.937626	0.0418416	0.959510
Phenyl+Allene	0.0228073	0.960434	0.00000	0.959510
PhCHCCH2+H	0.0133969	0.973831	0.0137096	0.973219
PhCCH+CH3	0.00955641	0.983387	0.00977939	0.982999
PhCH2CCH+H	0.00767490	0.991062	0.00785408	0.990853
rad11	0.00198531	0.993047	0.00203164	0.992884
Ph+MeAc	0.00139699	0.994444	0.00142960	0.994314
PAH7+H	0.00107461	0.995519	0.00109969	0.995414
rad7	0.000676121	0.996195	0.000691902	0.996105
rad28	0.000606427	0.996801	0.000620581	0.996726
rad23	0.000550738	0.997352	0.000563591	0.997290
PAH9+H	0.000538805	0.997891	0.000551380	0.997841
PhCCCH3+H	0.000408004	0.998299	0.000417527	0.998259
rad45	0.000279295	0.998578	0.000285813	0.998544
rad38	0.000259212	0.998837	0.000265263	0.998810
rad39	0.000254208	0.999092	0.000260142	0.999070
rad9	0.000173075	0.999265	0.000177115	0.999247
rad22	0.000159680	0.999424	0.000163407	0.999410
rad50	9.31590e-05	0.999518	9.53336e-05	0.999506
rad46	9.06661e-05	0.999608	9.27826e-05	0.999598
rad19anti	8.53842e-05	0.999694	8.73774e-05	0.999686
rad35	7.80293e-05	0.999772	7.98509e-05	0.999766
rad51	2.92772e-05	0.999801	2.99605e-05	0.999796
rad2	2.72852e-05	0.999828	2.79220e-05	0.999823
rad13	2.67007e-05	0.999855	2.73240e-05	0.999851
rad36	2.54139e-05	0.999880	2.60070e-05	0.999877
rad21	1.94925e-05	0.999900	1.99475e-05	0.999897
rad20	1.58491e-05	0.999916	1.62191e-05	0.999913
rad30	1.11439e-05	0.999927	1.14040e-05	0.999924
rad19syn	9.62467e-06	0.999936	9.84932e-06	0.999934
rad3	9.27457e-06	0.999946	9.49104e-06	0.999944
rad52	8.36863e-06	0.999954	8.56399e-06	0.999952
rad4	6.94338e-06	0.999961	7.10543e-06	0.999959
rad1	5.98995e-06	0.999967	6.12976e-06	0.999966
rad18	4.23934e-06	0.999971	4.33828e-06	0.999970
PAH3+H	3.83018e-06	0.999975	3.91958e-06	0.999974
rad26	3.21172e-06	0.999978	3.28668e-06	0.999977
PAH10+CH3	3.14695e-06	0.999981	3.22040e-06	0.999980
rad54	2.94841e-06	0.999984	3.01722e-06	0.999983
rad37	2.60432e-06	0.999987	2.66511e-06	0.999986
rad67	1.96262e-06	0.999989	2.00842e-06	0.999988
PhcycC3H3_A+H	1.89470e-06	0.999991	1.93892e-06	0.999990
rad10	1.58336e-06	0.999992	1.62032e-06	0.999992
PAH1+H	1.46641e-06	0.999994	1.50064e-06	0.999993
rad71	1.13904e-06	0.999995	1.16562e-06	0.999994
rad33	8.58825e-07	0.999996	8.78869e-07	0.999995
rad73	8.04862e-07	0.999997	8.23647e-07	0.999996
rad65	7.64472e-07	0.999997	7.82311e-07	0.999997
rad60syn	4.38179e-07	0.999998	4.48406e-07	0.999997
rad70	4.32598e-07	0.999998	4.42694e-07	0.999998
rad25	3.98620e-07	0.999999	4.07924e-07	0.999998
rad59	3.84890e-07	0.999999	3.93874e-07	0.999998
rad60anti	2.61714e-07	0.999999	2.67822e-07	0.999999
rad24	2.36969e-07	1.000000	2.42500e-07	0.999999
rad55	1.39777e-07	1.000000	1.43039e-07	0.999999
rad62	1.12436e-07	1.000000	1.15061e-07	0.999999
rad15	8.49176e-08	1.000000	8.69001e-08	0.999999
rad34	7.67950e-08	1.000000	7.85872e-08	0.999999
rad43	6.43867e-08	1.000000	6.58894e-08	0.999999
rad72	3.90220e-08	1.000000	3.99327e-08	0.999999
rad58	3.80332e-08	1.000000	3.89208e-08	0.999999
rad12	3.72318e-08	1.000000	3.81007e-08	0.999999
rad64	2.37685e-08	1.000000	2.43232e-08	1.000000
PAH8+H	1.60787e-08	1.000000	1.64539e-08	1.000000
rad14	9.31900e-09	1.000000	9.53650e-09	1.000000
rad53	8.80759e-09	1.000000	9.01318e-09	1.000000
rad42	6.33971e-09	1.000000	6.48768e-09	1.000000
rad61	6.21473e-09	1.000000	6.35978e-09	1.000000
rad56	5.54996e-09	1.000000	5.67949e-09	1.000000
rad41	4.20988e-09	1.000000	4.30814e-09	1.000000
rad68syn	4.06378e-09	1.000000	4.15862e-09	1.000000
rad47	3.32534e-09	1.000000	3.40296e-09	1.000000
rad68anti	2.64308e-09	1.000000	2.70477e-09	1.000000
rad31	2.11044e-09	1.000000	2.15970e-09	1.000000

rad40syn	2.02603e-09	1.00000	2.07331e-09	1.000000
rad40anti	1.38836e-09	1.00000	1.42076e-09	1.000000
rad27	6.16148e-10	1.00000	6.30529e-10	1.000000
rad5	8.66768e-11	1.00000	8.87004e-11	1.000000
rad8	9.90003e-13	1.00000	1.01311e-12	1.000000

10000.0000 Pa, 1000.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	7.98668e-13	(1.00)	7.54715e-13	(1.00)
Formation of rad11	2.67704e-13	(0.335)	2.46494e-13	(0.327)
Formation of rad6	2.87049e-13	(0.359)	2.64307e-13	(0.350)
H-abstraction	2.43915e-13	(0.305)	2.43915e-13	(0.323)
species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.416493	0.416493	0.440748	0.440748
Benzene+2-propynyl	0.305402	0.721895	0.323188	0.763936
Indene+H	0.0840880	0.805983	0.0889853	0.852921
C2H2+PhCH2	0.0626005	0.868583	0.0662462	0.919167
Phenyl+Allene	0.0550320	0.923615	0.000000	0.919167
PhCHCCH2+H	0.0265362	0.950152	0.0280816	0.947249
PhCCH+CH3	0.0190701	0.969222	0.0201807	0.967430
PhCH2CCH+H	0.0181447	0.987366	0.0192014	0.986631
Ph+MeAc	0.00271370	0.990080	0.00287174	0.989503
PAH7+H	0.00257871	0.992659	0.00272888	0.992232
rad11	0.00162878	0.994288	0.00172363	0.993955
rad7	0.000766260	0.995054	0.000810889	0.994766
PAH9+H	0.000715033	0.995769	0.000756676	0.995523
PhCCCH3+H	0.000701495	0.996470	0.000742348	0.996265
rad28	0.000628678	0.997099	0.000665290	0.996931
rad39	0.000574583	0.997674	0.000608046	0.997539
rad23	0.000429560	0.998103	0.000454576	0.997993
rad38	0.000343284	0.998446	0.000363276	0.998356
rad45	0.000311566	0.998758	0.000329711	0.998686
rad9	0.000210656	0.998969	0.000222924	0.998909
rad19anti	0.000190021	0.999159	0.000201087	0.999110
rad50	0.000124237	0.999283	0.000131473	0.999242
rad46	0.000120023	0.999403	0.000127013	0.999369
rad35	0.000105104	0.999508	0.000111225	0.999480
rad22	0.000100635	0.999609	0.000106495	0.999586
rad13	7.92585e-05	0.999688	8.38740e-05	0.999670
rad51	3.93045e-05	0.999727	4.15934e-05	0.999712
rad21	3.86554e-05	0.999766	4.09065e-05	0.999753
rad19syn	3.09353e-05	0.999797	3.27369e-05	0.999785
rad36	2.89023e-05	0.999826	3.05855e-05	0.999816
rad2	2.69547e-05	0.999853	2.85245e-05	0.999845
rad20	2.69524e-05	0.999880	2.85220e-05	0.999873
rad30	1.85167e-05	0.999898	1.95951e-05	0.999893
rad52	1.11936e-05	0.999909	1.18454e-05	0.999905
rad54	9.99020e-06	0.999919	1.05719e-05	0.999915
rad3	9.33623e-06	0.999929	9.87997e-06	0.999925
rad4	7.21097e-06	0.999936	7.63092e-06	0.999933
PhcycC3H3_A+H	6.97126e-06	0.999943	7.37726e-06	0.999940
rad1	6.43348e-06	0.999949	6.80812e-06	0.999947
PAH3+H	6.27897e-06	0.999956	6.64463e-06	0.999953
rad67	6.16959e-06	0.999962	6.52890e-06	0.999960
PAH10+CH3	5.42617e-06	0.999967	5.74217e-06	0.999966
rad37	5.30297e-06	0.999972	5.61180e-06	0.999971
rad18	5.15821e-06	0.999978	5.45861e-06	0.999977
rad33	3.80485e-06	0.999981	4.02643e-06	0.999981
rad26	3.60810e-06	0.999985	3.81823e-06	0.999985
PAH1+H	2.84032e-06	0.999988	3.00573e-06	0.999988
rad10	2.18663e-06	0.999990	2.31397e-06	0.999990
rad71	1.55716e-06	0.999992	1.64785e-06	0.999992
rad70	1.16998e-06	0.999993	1.23811e-06	0.999993
rad73	1.09653e-06	0.999994	1.16039e-06	0.999994
rad65	1.02509e-06	0.999995	1.08479e-06	0.999995
rad60syn	7.84166e-07	0.999996	8.29833e-07	0.999996
rad25	7.53597e-07	0.999996	7.97488e-07	0.999997
rad59	6.52421e-07	0.999997	6.90416e-07	0.999997
rad24	5.37464e-07	0.999998	5.68764e-07	0.999998
rad55	5.02270e-07	0.999998	5.31521e-07	0.999998
rad60anti	4.67333e-07	0.999999	4.94550e-07	0.999999
rad62	2.43050e-07	0.999999	2.57205e-07	0.999999
rad34	1.93082e-07	0.999999	2.04326e-07	0.999999
rad12	1.33973e-07	0.999999	1.41775e-07	1.000000
rad43	1.13483e-07	0.999999	1.20092e-07	1.000000
rad15	1.04950e-07	0.999999	1.11062e-07	1.000000

rad58	5.56493e-08	0.999999	5.88902e-08	1.000000
rad72	5.36855e-08	1.000000	5.68120e-08	1.000000
rad64	3.93977e-08	1.000000	4.16921e-08	1.000000
rad53	3.39281e-08	1.000000	3.59039e-08	1.000000
rad14	2.93415e-08	1.000000	3.10503e-08	1.000000
PAH8+H	2.41612e-08	1.000000	2.55683e-08	1.000000
rad56	1.86866e-08	1.000000	1.97748e-08	1.000000
rad42	1.13706e-08	1.000000	1.20328e-08	1.000000
rad61	9.99284e-09	1.000000	1.05748e-08	1.000000
rad41	7.52132e-09	1.000000	7.95931e-09	1.000000
rad68syn	6.64423e-09	1.000000	7.03120e-09	1.000000
rad47	4.54155e-09	1.000000	4.80604e-09	1.000000
rad68anti	4.33903e-09	1.000000	4.59172e-09	1.000000
rad31	3.22110e-09	1.000000	3.40868e-09	1.000000
rad40syn	3.18677e-09	1.000000	3.37237e-09	1.000000
rad27	3.14350e-09	1.000000	3.32657e-09	1.000000
rad40anti	2.21577e-09	1.000000	2.34480e-09	1.000000
rad8	1.01268e-10	1.000000	1.07165e-10	1.000000
rad5	9.49710e-11	1.000000	1.00502e-10	1.000000

10000.0000 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22919e-12 (1.00)	1.10410e-12 (1.00)
Formation of rad11	3.87976e-13 (0.316)	3.29198e-13 (0.298)
Formation of rad6	4.37724e-13 (0.356)	3.71410e-13 (0.336)
H-abstraction	4.03491e-13 (0.328)	4.03491e-13 (0.365)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.328257	0.328257	0.365448	0.365448
rad6	0.268704	0.596962	0.299148	0.664596
Phenyl+Allene	0.101768	0.698730	0.000000	0.664596
Indene+H	0.0979287	0.796659	0.109024	0.773620
C2H2+PhCH2	0.0813910	0.878050	0.0906127	0.864233
PhCHCCH2+H	0.0423696	0.920419	0.0471700	0.911403
PhCH2CCH+H	0.0334336	0.953853	0.0372217	0.948624
PhCCH+CH3	0.0288008	0.982654	0.0320638	0.980688
PAH7+H	0.00453648	0.987190	0.00505046	0.985739
Ph+MeAc	0.00405770	0.991248	0.00451744	0.990256
rad11	0.00190211	0.993150	0.00211762	0.992374
rad39	0.000964112	0.994114	0.00107334	0.993447
rad7	0.000961069	0.995075	0.00106996	0.994517
PhCCCH3+H	0.000920717	0.995996	0.00102504	0.995542
PAH9+H	0.000806044	0.996802	0.000897370	0.996439
rad28	0.000487316	0.997289	0.000542529	0.996982
rad38	0.000384733	0.997674	0.000428323	0.997410
rad23	0.000359581	0.998034	0.000400320	0.997811
rad45	0.000320099	0.998354	0.000356365	0.998167
rad19anti	0.000318471	0.998672	0.000354553	0.998521
rad9	0.000245595	0.998918	0.000273420	0.998795
rad13	0.000190026	0.999108	0.000211556	0.999006
rad50	0.000136422	0.999244	0.000151878	0.999158
rad46	0.000133273	0.999378	0.000148373	0.999307
rad35	0.000121155	0.999499	0.000134882	0.999442
rad19syn	7.25576e-05	0.999571	8.07784e-05	0.999522
rad22	6.93346e-05	0.999641	7.71900e-05	0.999600
rad21	5.17598e-05	0.999692	5.76241e-05	0.999657
rad51	4.31020e-05	0.999735	4.79854e-05	0.999705
rad20	3.13315e-05	0.999767	3.48814e-05	0.999740
rad36	2.98218e-05	0.999797	3.32005e-05	0.999773
rad30	2.58213e-05	0.999822	2.87468e-05	0.999802
rad54	2.47035e-05	0.999847	2.75024e-05	0.999829
rad2	2.29284e-05	0.999870	2.55262e-05	0.999855
PhcycC3H3_A+H	1.92008e-05	0.999889	2.13761e-05	0.999876
rad52	1.22774e-05	0.999902	1.36684e-05	0.999890
rad67	1.15793e-05	0.999913	1.28912e-05	0.999903
PAH3+H	9.07672e-06	0.999922	1.01052e-05	0.999913
rad37	8.76060e-06	0.999931	9.75312e-06	0.999923
rad33	7.95612e-06	0.999939	8.85752e-06	0.999932
rad3	7.91192e-06	0.999947	8.80834e-06	0.999940
PAH10+CH3	7.88841e-06	0.999955	8.78213e-06	0.999949
rad18	6.23787e-06	0.999961	6.94460e-06	0.999956
rad4	6.19349e-06	0.999967	6.89523e-06	0.999963
rad1	5.66559e-06	0.999973	6.30749e-06	0.999969
PAH1+H	5.28859e-06	0.999978	5.88778e-06	0.999975
rad10	3.38583e-06	0.999981	3.76944e-06	0.999979
rad26	3.16962e-06	0.999985	3.52874e-06	0.999983
rad70	2.62409e-06	0.999987	2.92139e-06	0.999985

rad71	1.71473e-06	0.999989	1.90900e-06	0.999987
rad25	1.45264e-06	0.999990	1.61722e-06	0.999989
rad55	1.32596e-06	0.999992	1.47620e-06	0.999990
rad73	1.20612e-06	0.999993	1.34277e-06	0.999992
rad60syn	1.18753e-06	0.999994	1.32208e-06	0.999993
rad65	1.12440e-06	0.999995	1.25180e-06	0.999994
rad59	9.67948e-07	0.999996	1.07761e-06	0.999995
rad24	7.80713e-07	0.999997	8.69164e-07	0.999996
rad60anti	7.08286e-07	0.999998	7.88538e-07	0.999997
rad62	4.41854e-07	0.999998	4.91915e-07	0.999998
rad34	4.37102e-07	0.999999	4.86626e-07	0.999998
rad12	2.81155e-07	0.999999	3.13009e-07	0.999998
rad15	1.76110e-07	0.999999	1.96063e-07	0.999999
rad43	1.40692e-07	0.999999	1.56632e-07	0.999999
rad53	1.12485e-07	0.999999	1.25229e-07	0.999999
rad58	7.12168e-08	0.999999	7.92853e-08	0.999999
rad14	6.95616e-08	0.999999	7.74426e-08	0.999999
rad56	6.76008e-08	1.000000	7.52597e-08	0.999999
rad64	6.50837e-08	1.000000	7.24576e-08	0.999999
rad72	5.92480e-08	1.000000	6.59604e-08	0.999999
PAH8+H	3.13186e-08	1.000000	3.48670e-08	0.999999
rad42	1.81158e-08	1.000000	2.01683e-08	0.999999
rad61	1.29641e-08	1.000000	1.44329e-08	0.999999
rad68syn	1.13390e-08	1.000000	1.26236e-08	0.999999
rad27	9.49502e-09	1.000000	1.05707e-08	0.999999
rad41	8.73507e-09	1.000000	9.72476e-09	0.999999
rad68anti	7.44640e-09	1.000000	8.29004e-09	0.999999
rad47	4.79691e-09	1.000000	5.34039e-09	0.999999
rad40syn	4.33942e-09	1.000000	4.83107e-09	0.999999
rad31	3.79413e-09	1.000000	4.22400e-09	0.999999
rad40anti	2.86973e-09	1.000000	3.19486e-09	0.999999
rad8	1.26803e-09	1.000000	1.41169e-09	0.999999
rad5	1.00902e-10	1.000000	1.12333e-10	0.999999

10000.0000 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.52990e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.13694e-13 (0.270)
Formation of rad6	6.34764e-13 (0.352)	4.87386e-13 (0.319)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.411)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.411019	0.411019
Phenyl+Allene	0.151175	0.500058	0.00000	0.411019
rad6	0.150458	0.650516	0.177254	0.588273
Indene+H	0.0990336	0.749550	0.116671	0.704945
C2H2+PhCH2	0.0891920	0.838742	0.105077	0.810022
PhCHCCH2+H	0.0557297	0.894471	0.0656549	0.875677
PhCH2CCH+H	0.0499331	0.944405	0.0588261	0.934503
PhCCH+CH3	0.0347499	0.979154	0.0409388	0.975442
PAH7+H	0.00626151	0.985416	0.00737670	0.982818
Ph+MeAc	0.00491851	0.990334	0.00579449	0.988613
rad11	0.00227825	0.992613	0.00268401	0.991297
rad39	0.00127205	0.993885	0.00149860	0.992795
rad7	0.00120865	0.995093	0.00142391	0.994219
PhCCCH3+H	0.000964291	0.996058	0.00113603	0.995355
PAH9+H	0.000779817	0.996837	0.000918699	0.996274
rad19anti	0.000433091	0.997271	0.000510224	0.996784
rad38	0.000368946	0.997640	0.000434655	0.997219
rad28	0.000307266	0.997947	0.000361990	0.997581
rad23	0.000283555	0.998230	0.000334056	0.997915
rad45	0.000282419	0.998513	0.000332717	0.998248
rad9	0.000269057	0.998782	0.000316976	0.998565
rad13	0.000264458	0.999046	0.000311558	0.998876
rad19syn	0.000134072	0.999180	0.000157950	0.999034
rad46	0.000125804	0.999306	0.000148209	0.999182
rad50	0.000125418	0.999432	0.000147755	0.999330
rad35	0.000120220	0.999552	0.000141631	0.999472
rad21	4.81355e-05	0.999600	5.67083e-05	0.999528
rad54	4.75307e-05	0.999647	5.59959e-05	0.999584
rad22	4.62524e-05	0.999694	5.44900e-05	0.999639
PhcycC3H3_A+H	4.19229e-05	0.999736	4.93893e-05	0.999688
rad51	3.93122e-05	0.999775	4.63137e-05	0.999735
rad30	3.02848e-05	0.999805	3.56785e-05	0.999770
rad36	2.63840e-05	0.999832	3.10830e-05	0.999801
rad20	2.51116e-05	0.999857	2.95839e-05	0.999831
rad2	1.58130e-05	0.999873	1.86292e-05	0.999850

rad67	1.55730e-05	0.999888	1.83465e-05	0.999868
rad37	1.20272e-05	0.999900	1.41692e-05	0.999882
PAH3+H	1.16129e-05	0.999912	1.36812e-05	0.999896
rad52	1.12348e-05	0.999923	1.32358e-05	0.999909
PAH10+CH3	1.01585e-05	0.999933	1.19677e-05	0.999921
PAH1+H	9.21057e-06	0.999942	1.08509e-05	0.999932
rad33	9.14175e-06	0.999952	1.07699e-05	0.999943
rad18	6.52491e-06	0.999958	7.68703e-06	0.999950
rad3	5.49917e-06	0.999964	6.47856e-06	0.999957
rad70	4.87903e-06	0.999968	5.74799e-06	0.999963
rad10	4.82058e-06	0.999973	5.67913e-06	0.999968
rad4	4.33346e-06	0.999978	5.10525e-06	0.999973
rad1	3.96487e-06	0.999982	4.67102e-06	0.999978
rad55	2.71162e-06	0.999984	3.19455e-06	0.999981
rad26	2.40524e-06	0.999987	2.83361e-06	0.999984
rad25	1.91094e-06	0.999989	2.25129e-06	0.999986
rad71	1.55657e-06	0.999990	1.83380e-06	0.999988
rad60syn	1.52805e-06	0.999992	1.80020e-06	0.999990
rad59	1.25683e-06	0.999993	1.48067e-06	0.999991
rad73	1.09491e-06	0.999994	1.28990e-06	0.999993
rad65	1.02713e-06	0.999995	1.21006e-06	0.999994
rad60anti	9.14194e-07	0.999996	1.07701e-06	0.999995
rad34	8.55984e-07	0.999997	1.00844e-06	0.999996
rad24	8.39531e-07	0.999998	9.89047e-07	0.999997
rad62	7.02516e-07	0.999998	8.27631e-07	0.999998
rad12	4.12167e-07	0.999999	4.85573e-07	0.999998
rad15	3.76296e-07	0.999999	4.43314e-07	0.999999
rad53	2.86668e-07	0.999999	3.37724e-07	0.999999
rad56	1.90037e-07	1.000000	2.23882e-07	0.999999
rad43	1.43821e-07	1.000000	1.69436e-07	0.999999
rad64	1.10347e-07	1.000000	1.29999e-07	1.000000
rad14	9.60339e-08	1.000000	1.13137e-07	1.000000
rad58	8.21124e-08	1.000000	9.67366e-08	1.000000
rad72	5.38029e-08	1.000000	6.33850e-08	1.000000
PAH8+H	4.49657e-08	1.000000	5.29740e-08	1.000000
rad42	2.88490e-08	1.000000	3.39870e-08	1.000000
rad68syn	2.18326e-08	1.000000	2.57209e-08	1.000000
rad68anti	1.43784e-08	1.000000	1.69392e-08	1.000000
rad61	1.41680e-08	1.000000	1.66914e-08	1.000000
rad27	1.32028e-08	1.000000	1.55542e-08	1.000000
rad41	7.99702e-09	1.000000	9.42129e-09	1.000000
rad40syn	6.55362e-09	1.000000	7.72084e-09	1.000000
rad8	4.24173e-09	1.000000	4.99718e-09	1.000000
rad47	4.14611e-09	1.000000	4.88453e-09	1.000000
rad40anti	3.93419e-09	1.000000	4.63487e-09	1.000000
rad31	3.59009e-09	1.000000	4.22948e-09	1.000000
rad5	1.07174e-10	1.000000	1.26261e-10	1.000000

10000.0000 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.54148e-12 (1.00)	2.05405e-12 (1.00)
Formation of rad11	7.22991e-13 (0.284)	5.03726e-13 (0.245)
Formation of rad6	8.84215e-13 (0.348)	6.16055e-13 (0.300)
H-abstraction	9.34273e-13 (0.368)	9.34273e-13 (0.455)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.367610	0.367610	0.454844	0.454844
Phenyl+Allene	0.191788	0.559398	0.000000	0.454844
Indene+H	0.0890468	0.648445	0.110177	0.565021
C2H2+PhCH2	0.0854953	0.733940	0.105783	0.670804
rad6	0.0810680	0.815008	0.100306	0.771110
PhCH2CCH+H	0.0638746	0.878883	0.0790319	0.850141
PhCHCCH2+H	0.0635223	0.942405	0.0785958	0.928737
PhCCH+CH3	0.0357908	0.978196	0.0442839	0.973021
PAH7+H	0.00729310	0.985489	0.00902376	0.982045
Ph+MeAc	0.00514955	0.990639	0.00637152	0.988416
rad11	0.00215885	0.992797	0.00267115	0.991087
rad39	0.00141443	0.994212	0.00175007	0.992838
rad7	0.00132775	0.995540	0.00164282	0.994480
PhCCCH3+H	0.000859488	0.996399	0.00106344	0.995544
PAH9+H	0.000679655	0.997079	0.000840931	0.996385
rad19anti	0.000512682	0.997591	0.000634344	0.997019
rad38	0.000317945	0.997909	0.000393393	0.997412
rad9	0.000258412	0.998168	0.000319734	0.997732
rad13	0.000229324	0.998397	0.000283742	0.998016
rad45	0.000217073	0.998614	0.000268584	0.998285
rad23	0.000213645	0.998828	0.000264344	0.998549

rad19syn	0.000209479	0.999037	0.000259188	0.998808
rad28	0.000179635	0.999217	0.000222262	0.999030
rad35	0.000107698	0.999325	0.000133254	0.999164
rad46	0.000106168	0.999431	0.000131361	0.999295
rad50	0.000101408	0.999532	0.000125472	0.999420
PhcycC3H3_A+H	7.70959e-05	0.999609	9.53904e-05	0.999516
rad54	7.63643e-05	0.999686	9.44854e-05	0.999610
rad21	3.67567e-05	0.999722	4.54790e-05	0.999656
rad22	3.19339e-05	0.999754	3.95119e-05	0.999695
rad51	3.12586e-05	0.999786	3.86763e-05	0.999734
rad30	3.11635e-05	0.999817	3.85586e-05	0.999773
rad36	2.03477e-05	0.999837	2.51761e-05	0.999798
rad67	1.75407e-05	0.999855	2.17032e-05	0.999819
rad20	1.66686e-05	0.999871	2.06240e-05	0.999840
PAH1+H	1.46055e-05	0.999886	1.80713e-05	0.999858
rad37	1.44467e-05	0.999900	1.78749e-05	0.999876
PAH3+H	1.36819e-05	0.999914	1.69287e-05	0.999893
PAH10+CH3	1.24129e-05	0.999926	1.53585e-05	0.999908
rad52	9.00068e-06	0.999935	1.11366e-05	0.999919
rad2	8.99961e-06	0.999944	1.11352e-05	0.999931
rad70	7.73944e-06	0.999952	9.57600e-06	0.999940
rad33	7.71149e-06	0.999960	9.54144e-06	0.999950
rad18	5.63506e-06	0.999966	6.97222e-06	0.999957
rad10	5.20374e-06	0.999971	6.43857e-06	0.999963
rad55	4.60340e-06	0.999975	5.69579e-06	0.999969
rad3	3.24275e-06	0.999979	4.01226e-06	0.999973
rad4	2.56640e-06	0.999981	3.17541e-06	0.999976
rad1	2.27604e-06	0.999983	2.81614e-06	0.999979
rad26	1.79088e-06	0.999985	2.21585e-06	0.999981
rad25	1.76849e-06	0.999987	2.18815e-06	0.999983
rad60syn	1.74350e-06	0.999989	2.15723e-06	0.999985
rad59	1.48366e-06	0.999990	1.83573e-06	0.999987
rad34	1.44764e-06	0.999992	1.79116e-06	0.999989
rad71	1.21721e-06	0.999993	1.50605e-06	0.999990
rad60anti	1.04817e-06	0.999994	1.29689e-06	0.999992
rad62	9.92814e-07	0.999995	1.22841e-06	0.999993
rad15	8.79193e-07	0.999996	1.08783e-06	0.999994
rad73	8.57356e-07	0.999997	1.06081e-06	0.999995
rad65	8.19793e-07	0.999997	1.01433e-06	0.999996
rad24	7.40187e-07	0.999998	9.15836e-07	0.999997
rad53	5.90325e-07	0.999999	7.30406e-07	0.999998
rad12	4.76285e-07	0.999999	5.89309e-07	0.999998
rad56	4.24489e-07	1.000000	5.25220e-07	0.999999
rad64	1.81896e-07	1.000000	2.25060e-07	0.999999
rad43	1.36506e-07	1.000000	1.68899e-07	0.999999
rad58	9.13178e-08	1.000000	1.12987e-07	0.999999
rad14	8.50128e-08	1.000000	1.05186e-07	1.000000
PAH8+H	7.86447e-08	1.000000	9.73066e-08	1.000000
rad42	4.44320e-08	1.000000	5.49758e-08	1.000000
rad68syn	4.23523e-08	1.000000	5.24025e-08	1.000000
rad72	4.20135e-08	1.000000	5.19832e-08	1.000000
rad68anti	2.78795e-08	1.000000	3.44953e-08	1.000000
rad61	1.45829e-08	1.000000	1.80435e-08	1.000000
rad40syn	1.16047e-08	1.000000	1.43584e-08	1.000000
rad27	1.09409e-08	1.000000	1.35371e-08	1.000000
rad8	7.26015e-09	1.000000	8.98298e-09	1.000000
rad41	6.82102e-09	1.000000	8.43968e-09	1.000000
rad40anti	6.51893e-09	1.000000	8.06581e-09	1.000000
rad47	3.11039e-09	1.000000	3.84847e-09	1.000000
rad31	2.90627e-09	1.000000	3.59593e-09	1.000000
rad5	1.19958e-10	1.000000	1.48424e-10	1.000000

10000.0000 Pa, 1400.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.47024e-12 (1.00)	2.70319e-12 (1.00)
Formation of rad11	9.43269e-13 (0.272)	6.04410e-13 (0.224)
Formation of rad6	1.19194e-12 (0.343)	7.63746e-13 (0.283)
H-abstraction	1.33503e-12 (0.385)	1.33503e-12 (0.494)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.493873	0.493873
Phenyl+Allene	0.221037	0.605746	0.00000	0.493873
C2H2+PhCH2	0.0758488	0.681594	0.0973718	0.591245
Indene+H	0.0749258	0.756520	0.0961869	0.687432
PhCH2CCH+H	0.0739838	0.830504	0.0949778	0.782409
PhCHCCH2+H	0.0664262	0.896930	0.0852748	0.867684
rad6	0.0484463	0.945376	0.0621934	0.929878

PhCCH+CH3	0.0337834	0.979160	0.0433697	0.973247
PAH7+H	0.00769969	0.986860	0.00988451	0.983132
Ph+MeAc	0.00498478	0.991844	0.00639927	0.989531
rad11	0.00158132	0.993426	0.00203004	0.991561
rad39	0.00142307	0.994849	0.00182688	0.993388
rad7	0.00116862	0.996017	0.00150022	0.994888
PhCCCH3+H	0.000703930	0.996721	0.000903670	0.995792
PAH9+H	0.000572416	0.997294	0.000734846	0.996527
rad19anti	0.000559848	0.997854	0.000718711	0.997245
rad19syn	0.000293012	0.998147	0.000376156	0.997622
rad38	0.000264520	0.998411	0.000339579	0.997961
rad9	0.000222027	0.998633	0.000285028	0.998246
rad23	0.000168769	0.998802	0.000216659	0.998463
rad13	0.000159909	0.998962	0.000205284	0.998668
rad45	0.000152990	0.999115	0.000196403	0.998865
PhcycC3H3_A+H	0.000125084	0.999240	0.000160578	0.999025
rad28	0.000112848	0.999353	0.000144869	0.999170
rad54	0.000109676	0.999462	0.000140797	0.999311
rad35	9.32400e-05	0.999556	0.000119698	0.999430
rad46	8.63610e-05	0.999642	0.000110867	0.999541
rad50	7.79358e-05	0.999720	0.000100051	0.999641
rad30	2.97728e-05	0.999750	3.82210e-05	0.999680
rad21	2.55906e-05	0.999775	3.28521e-05	0.999712
rad22	2.41041e-05	0.999799	3.09438e-05	0.999743
rad51	2.33520e-05	0.999823	2.99783e-05	0.999773
PAH1+H	2.14191e-05	0.999844	2.74969e-05	0.999801
rad67	1.84601e-05	0.999863	2.36983e-05	0.999825
rad37	1.60441e-05	0.999879	2.05967e-05	0.999845
PAH3+H	1.54785e-05	0.999894	1.98706e-05	0.999865
PAH10+CH3	1.50535e-05	0.999909	1.93250e-05	0.999884
rad36	1.43977e-05	0.999924	1.84831e-05	0.999903
rad70	1.08945e-05	0.999934	1.39859e-05	0.999917
rad20	1.02907e-05	0.999945	1.32108e-05	0.999930
rad55	6.95593e-06	0.999952	8.92970e-06	0.999939
rad52	6.81539e-06	0.999959	8.74937e-06	0.999948
rad33	5.67499e-06	0.999964	7.28529e-06	0.999955
rad2	4.55453e-06	0.999969	5.84693e-06	0.999961
rad10	4.04753e-06	0.999973	5.19605e-06	0.999966
rad18	3.90838e-06	0.999977	5.01740e-06	0.999971
rad34	2.16435e-06	0.999979	2.77851e-06	0.999974
rad60syn	1.85753e-06	0.999981	2.38462e-06	0.999976
rad15	1.77357e-06	0.999983	2.27683e-06	0.999979
rad3	1.75774e-06	0.999984	2.25651e-06	0.999981
rad59	1.66312e-06	0.999986	2.13504e-06	0.999983
rad26	1.44724e-06	0.999987	1.85791e-06	0.999985
rad25	1.39691e-06	0.999989	1.79329e-06	0.999987
rad4	1.39549e-06	0.999990	1.79148e-06	0.999988
rad62	1.29488e-06	0.999991	1.66231e-06	0.999990
rad1	1.15976e-06	0.999993	1.48885e-06	0.999992
rad60anti	1.12340e-06	0.999994	1.44217e-06	0.999993
rad53	1.07074e-06	0.999995	1.37456e-06	0.999994
rad71	8.75719e-07	0.999996	1.12421e-06	0.999995
rad56	8.36347e-07	0.999997	1.07366e-06	0.999997
rad73	6.19340e-07	0.999997	7.95085e-07	0.999997
rad65	6.17174e-07	0.999998	7.92296e-07	0.999998
rad24	5.86532e-07	0.999998	7.52965e-07	0.999999
rad12	4.76614e-07	0.999999	6.11857e-07	0.999999
rad64	2.85242e-07	0.999999	3.66181e-07	1.000000
PAH8+H	1.39543e-07	0.999999	1.79140e-07	1.000000
rad43	1.30696e-07	0.999999	1.67782e-07	1.000000
rad58	1.03481e-07	0.999999	1.32845e-07	1.000000
rad68syn	7.42355e-08	1.000000	9.53007e-08	1.000000
rad42	6.50781e-08	1.000000	8.35444e-08	1.000000
rad14	6.20736e-08	1.000000	7.96877e-08	1.000000
rad68anti	4.87995e-08	1.000000	6.26469e-08	1.000000
rad72	3.00759e-08	1.000000	3.86102e-08	1.000000
rad40syn	2.03778e-08	1.000000	2.61601e-08	1.000000
rad61	1.59691e-08	1.000000	2.05005e-08	1.000000
rad40anti	1.12180e-08	1.000000	1.44012e-08	1.000000
rad8	9.02189e-09	1.000000	1.15820e-08	1.000000
rad27	7.23711e-09	1.000000	9.29067e-09	1.000000
rad41	6.25093e-09	1.000000	8.02464e-09	1.000000
rad47	2.18871e-09	1.000000	2.80977e-09	1.000000
rad31	2.17425e-09	1.000000	2.79121e-09	1.000000
rad5	1.47818e-10	1.000000	1.89762e-10	1.000000

10000.0000 Pa, 1500.00000 K

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Rate constant | True (fraction) | Effective (fraction)

Total	4.61271e-12 (1.00)	3.49743e-12 (1.00)
Formation of rad11	1.20217e-12 (0.261)	7.17402e-13 (0.205)
Formation of rad6	1.56360e-12 (0.339)	9.33086e-13 (0.267)
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.528)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.528085	0.528085
Phenyl+Allene	0.241785	0.642187	0.000000	0.528085
PhCH2CCH+H	0.0809031	0.723090	0.106702	0.634788
PhCHCCH2+H	0.0664468	0.789537	0.0876360	0.722424
C2H2+PhCH2	0.0650767	0.854614	0.0858285	0.808252
Indene+H	0.0614534	0.916067	0.0810499	0.889302
rad6	0.0338496	0.949917	0.0446437	0.933946
PhCCH+CH3	0.0307496	0.980666	0.0405552	0.974501
PAH7+H	0.00774440	0.988411	0.0102140	0.984715
Ph+MeAc	0.00467796	0.993089	0.00616967	0.990885
rad39	0.00136263	0.994451	0.00179716	0.992682
rad11	0.00102795	0.995479	0.00135575	0.994037
rad7	0.000853671	0.996333	0.00112589	0.995163
rad19anti	0.000585604	0.996918	0.000772345	0.995936
PhCCCH3+H	0.000561445	0.997480	0.000740481	0.996676
PAH9+H	0.000491078	0.997971	0.000647675	0.997324
rad19syn	0.000379918	0.998351	0.000501070	0.997825
rad38	0.000224500	0.998575	0.000296091	0.998121
PhcycC3H3_A+H	0.000183984	0.998759	0.000242653	0.998364
rad9	0.000177469	0.998937	0.000234061	0.998598
rad23	0.000147374	0.999084	0.000194369	0.998792
rad54	0.000147190	0.999231	0.000194127	0.998986
rad13	0.000103694	0.999335	0.000136761	0.999123
rad45	0.000103468	0.999439	0.000136463	0.999259
rad35	8.19830e-05	0.999521	0.000108127	0.999368
rad28	8.13042e-05	0.999602	0.000107231	0.999475
rad46	7.20009e-05	0.999674	9.49606e-05	0.999570
rad50	6.12957e-05	0.999735	8.08423e-05	0.999651
PAH1+H	2.97639e-05	0.999765	3.92551e-05	0.999690
rad30	2.75515e-05	0.999793	3.63373e-05	0.999726
rad22	2.02358e-05	0.999813	2.66887e-05	0.999753
rad67	1.94036e-05	0.999832	2.55912e-05	0.999779
PAH10+CH3	1.82841e-05	0.999850	2.41146e-05	0.999803
rad51	1.76689e-05	0.999868	2.33032e-05	0.999826
PAH3+H	1.72283e-05	0.999885	2.27222e-05	0.999849
rad21	1.72200e-05	0.999903	2.27112e-05	0.999871
rad37	1.70861e-05	0.999920	2.25347e-05	0.999894
rad70	1.42018e-05	0.999934	1.87306e-05	0.999913
rad55	9.78244e-06	0.999944	1.29019e-05	0.999926
rad36	9.77902e-06	0.999953	1.28974e-05	0.999938
rad20	6.24673e-06	0.999960	8.23873e-06	0.999947
rad52	5.25885e-06	0.999965	6.93583e-06	0.999954
rad33	3.96995e-06	0.999969	5.23589e-06	0.999959
rad34	2.98242e-06	0.999972	3.93348e-06	0.999963
rad15	2.59257e-06	0.999974	3.41931e-06	0.999966
rad10	2.53985e-06	0.999977	3.34978e-06	0.999970
rad18	2.41763e-06	0.999979	3.18857e-06	0.999973
rad2	2.21222e-06	0.999982	2.91766e-06	0.999976
rad60syn	1.91708e-06	0.999984	2.52841e-06	0.999978
rad59	1.82078e-06	0.999985	2.40140e-06	0.999981
rad53	1.79223e-06	0.999987	2.36375e-06	0.999983
rad62	1.61545e-06	0.999989	2.13060e-06	0.999985
rad56	1.52161e-06	0.999990	2.00683e-06	0.999987
rad26	1.28753e-06	0.999992	1.69810e-06	0.999989
rad60anti	1.16686e-06	0.999993	1.53896e-06	0.999990
rad25	1.04077e-06	0.999994	1.37266e-06	0.999992
rad3	9.39642e-07	0.999995	1.23928e-06	0.999993
rad4	7.47560e-07	0.999995	9.85943e-07	0.999994
rad71	6.17112e-07	0.999996	8.13897e-07	0.999995
rad1	5.66715e-07	0.999997	7.47433e-07	0.999995
rad65	4.73388e-07	0.999997	6.24348e-07	0.999996
rad24	4.44482e-07	0.999998	5.86222e-07	0.999997
rad73	4.40774e-07	0.999998	5.81333e-07	0.999997
rad12	4.38953e-07	0.999998	5.78931e-07	0.999998
rad64	4.27423e-07	0.999999	5.63721e-07	0.999998
PAH8+H	2.38992e-07	0.999999	3.15204e-07	0.999999
rad43	1.29796e-07	0.999999	1.71186e-07	0.999999
rad58	1.20916e-07	0.999999	1.59474e-07	0.999999
rad68syn	1.19740e-07	0.999999	1.57923e-07	0.999999
rad42	9.19519e-08	1.000000	1.21274e-07	0.999999
rad68anti	7.85803e-08	1.000000	1.03639e-07	0.999999
rad14	4.30966e-08	1.000000	5.68393e-08	1.000000
rad40syn	3.41197e-08	1.000000	4.49999e-08	1.000000

rad72	2.09023e-08	1.000000	2.75678e-08	1.000000
rad61	1.95710e-08	1.000000	2.58119e-08	1.000000
rad40anti	1.88145e-08	1.000000	2.48142e-08	1.000000
rad8	9.64705e-09	1.000000	1.27234e-08	1.000000
rad41	6.44717e-09	1.000000	8.50310e-09	1.000000
rad27	4.44563e-09	1.000000	5.86326e-09	1.000000
rad31	1.59340e-09	1.000000	2.10151e-09	1.000000
rad47	1.55813e-09	1.000000	2.05500e-09	1.000000
rad5	1.99167e-10	1.000000	2.62679e-10	1.000000

10000.0000 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.21523e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.02761e-12 (0.165)
Formation of rad6	2.80256e-12 (0.325)	1.41164e-12 (0.227)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.608)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.607536	0.607536
Phenyl+Allene	0.278867	0.716981	0.000000	0.607536
PhCH2CCH+H	0.0913429	0.808324	0.126666	0.734202
PhCHCCH2+H	0.0621029	0.870427	0.0861187	0.820321
C2H2+PhCH2	0.0408404	0.911267	0.0566337	0.876955
Indene+H	0.0306762	0.941944	0.0425388	0.919493
PhCCH+CH3	0.0246679	0.966611	0.0342071	0.953701
rad6	0.0158222	0.982434	0.0219408	0.975641
PAH7+H	0.00698468	0.989418	0.00968569	0.985327
Ph+MeAc	0.00457980	0.993998	0.00635085	0.991678
rad39	0.00127770	0.995276	0.00177180	0.993450
PhcycC3H3_A+H	0.000745897	0.996022	0.00103434	0.994484
rad19syn	0.000724096	0.996746	0.00100411	0.995488
rad19anti	0.000502793	0.997249	0.000697228	0.996185
PAH9+H	0.000400886	0.997649	0.000555909	0.996741
PhCCCH3+H	0.000367238	0.998017	0.000509249	0.997251
rad54	0.000279636	0.998296	0.000387772	0.997638
rad38	0.000262576	0.998559	0.000364115	0.998002
rad50	0.000212963	0.998772	0.000295317	0.998298
rad51	0.000155463	0.998927	0.000215582	0.998513
rad7	0.000129633	0.999057	0.000179763	0.998693
rad71	0.000126688	0.999184	0.000175679	0.998869
rad11	0.000117827	0.999301	0.000163391	0.999032
rad46	9.49502e-05	0.999396	0.000131668	0.999164
PAH1+H	7.11291e-05	0.999468	9.86348e-05	0.999263
rad35	6.59159e-05	0.999533	9.14056e-05	0.999354
rad23	6.22384e-05	0.999596	8.63063e-05	0.999440
rad28	4.18993e-05	0.999638	5.81019e-05	0.999498
rad73	3.98530e-05	0.999677	5.52644e-05	0.999554
PAH10+CH3	3.66645e-05	0.999714	5.08429e-05	0.999604
PAH3+H	2.79737e-05	0.999742	3.87912e-05	0.999643
rad52	2.78259e-05	0.999770	3.85863e-05	0.999682
rad67	2.56333e-05	0.999796	3.55459e-05	0.999717
rad70	2.53573e-05	0.999821	3.51632e-05	0.999753
rad72	2.41640e-05	0.999845	3.35084e-05	0.999786
rad55	2.40171e-05	0.999869	3.33046e-05	0.999819
rad30	2.14353e-05	0.999891	2.97245e-05	0.999849
rad37	1.68827e-05	0.999907	2.34113e-05	0.999872
rad9	1.30788e-05	0.999921	1.81365e-05	0.999891
rad56	1.07344e-05	0.999931	1.48855e-05	0.999905
rad13	9.45142e-06	0.999941	1.31064e-05	0.999919
rad53	9.11007e-06	0.999950	1.26330e-05	0.999931
rad22	8.94853e-06	0.999959	1.24090e-05	0.999944
rad45	7.81852e-06	0.999967	1.08420e-05	0.999954
rad34	6.65991e-06	0.999973	9.23530e-06	0.999964
PAH8+H	3.95175e-06	0.999977	5.47993e-06	0.999969
rad62	3.48399e-06	0.999981	4.83127e-06	0.999974
rad65	2.62588e-06	0.999983	3.64133e-06	0.999978
rad59	2.53446e-06	0.999986	3.51456e-06	0.999981
rad60syn	2.08112e-06	0.999988	2.88590e-06	0.999984
rad64	1.56842e-06	0.999989	2.17494e-06	0.999986
rad21	1.45429e-06	0.999991	2.01667e-06	0.999988
rad60anti	1.42239e-06	0.999992	1.97244e-06	0.999990
rad36	1.33517e-06	0.999994	1.85150e-06	0.999992
rad26	7.06481e-07	0.999994	9.79680e-07	0.999993
rad15	7.04896e-07	0.999995	9.77486e-07	0.999994
rad68syn	6.68419e-07	0.999996	9.26902e-07	0.999995
rad20	4.50098e-07	0.999996	6.24155e-07	0.999996
rad68anti	4.28740e-07	0.999997	5.94536e-07	0.999996

rad42	3.92887e-07	0.999997	5.44818e-07	0.999997
rad33	3.77802e-07	0.999997	5.23900e-07	0.999997
rad58	3.47346e-07	0.999998	4.81667e-07	0.999998
rad40syn	3.36422e-07	0.999998	4.66518e-07	0.999998
rad10	2.74809e-07	0.999998	3.81079e-07	0.999999
rad40anti	2.43923e-07	0.999999	3.38249e-07	0.999999
rad18	2.17021e-07	0.999999	3.00944e-07	0.999999
rad43	1.78717e-07	0.999999	2.47827e-07	0.999999
rad61	1.37278e-07	0.999999	1.90365e-07	1.000000
rad25	1.10842e-07	0.999999	1.53705e-07	1.000000
rad2	7.44734e-08	0.999999	1.03273e-07	1.000000
rad12	5.25375e-08	0.999999	7.28542e-08	1.000000
rad24	4.46743e-08	0.999999	6.19500e-08	1.000000
rad3	3.39586e-08	0.999999	4.70906e-08	1.000000
rad4	2.15847e-08	0.999999	2.99316e-08	1.000000
rad1	2.07578e-08	1.000000	2.87849e-08	1.000000
rad41	1.93322e-08	1.000000	2.68081e-08	1.000000
rad47	5.57605e-09	1.000000	7.73232e-09	1.000000
rad14	5.10666e-09	1.000000	7.08142e-09	1.000000
rad8	2.67192e-09	1.000000	3.70517e-09	1.000000
rad5	4.62960e-10	1.000000	6.41988e-10	1.000000
rad27	3.47341e-10	1.000000	4.81659e-10	1.000000

10000.0000 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.44111e-11 (1.00)	1.02141e-11 (1.00)
Formation of rad11	3.16882e-12 (0.220)	1.44202e-12 (0.141)
Formation of rad6	4.53302e-12 (0.315)	2.06283e-12 (0.202)
H-abstraction	6.70922e-12 (0.466)	6.70922e-12 (0.657)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.656860	0.656860
Phenyl+Allene	0.291234	0.756794	0.000000	0.656860
PhCH2CCH+H	0.0952414	0.852036	0.134377	0.791237
PhCHCCH2+H	0.0574031	0.909439	0.0809906	0.872227
C2H2+PhCH2	0.0297189	0.939158	0.0419307	0.914158
PhCCH+CH3	0.0204294	0.959587	0.0288239	0.942982
Indene+H	0.0203700	0.979957	0.0287402	0.971722
PAH7+H	0.00647976	0.986437	0.00914234	0.980864
Ph+MeAc	0.00410744	0.990544	0.00579519	0.986660
rad6	0.00390781	0.994452	0.00551354	0.992173
PhcycC3H3_A+H	0.00102183	0.995474	0.00144170	0.993615
rad39	0.00101874	0.996493	0.00143735	0.995052
rad19syn	0.000910856	0.997403	0.00128513	0.996337
rad19anti	0.000492496	0.997896	0.000694865	0.997032
rad54	0.000382637	0.998279	0.000539865	0.997572
PAH9+H	0.000335294	0.998614	0.000473066	0.998045
PhCCH3+H	0.000262320	0.998876	0.000370107	0.998415
rad38	0.000201349	0.999077	0.000284083	0.998699
rad50	0.000117539	0.999195	0.000165836	0.998865
PAH1+H	9.70425e-05	0.999292	0.000136918	0.999002
rad51	7.53042e-05	0.999367	0.000106247	0.999108
rad46	6.80684e-05	0.999435	9.60380e-05	0.999204
rad35	5.86345e-05	0.999494	8.27279e-05	0.999287
rad71	5.34750e-05	0.999548	7.54482e-05	0.999363
PAH10+CH3	4.06254e-05	0.999588	5.73184e-05	0.999420
rad7	3.89492e-05	0.999627	5.49535e-05	0.999475
rad55	3.49609e-05	0.999662	4.93264e-05	0.999524
rad11	3.40758e-05	0.999696	4.80777e-05	0.999572
rad70	3.35597e-05	0.999730	4.73495e-05	0.999620
PAH3+H	3.13908e-05	0.999761	4.42894e-05	0.999664
rad23	3.01586e-05	0.999791	4.25511e-05	0.999706
rad67	2.86848e-05	0.999820	4.04716e-05	0.999747
rad56	2.17002e-05	0.999842	3.06169e-05	0.999778
rad30	1.82495e-05	0.999860	2.57483e-05	0.999803
rad73	1.70223e-05	0.999877	2.40169e-05	0.999827
rad53	1.66993e-05	0.999894	2.35610e-05	0.999851
rad37	1.64323e-05	0.999910	2.31844e-05	0.999874
rad52	1.44850e-05	0.999925	2.04370e-05	0.999894
rad28	1.41077e-05	0.999939	1.99046e-05	0.999914
rad72	1.00936e-05	0.999949	1.42411e-05	0.999929
rad34	9.32752e-06	0.999958	1.31602e-05	0.999942
rad9	6.07129e-06	0.999964	8.56597e-06	0.999950
rad62	5.49019e-06	0.999970	7.74614e-06	0.999958
PAH8+H	4.22929e-06	0.999974	5.96713e-06	0.999964
rad13	3.69830e-06	0.999978	5.21796e-06	0.999969
rad45	3.16626e-06	0.999981	4.46730e-06	0.999974

rad59	2.80348e-06	0.999984	3.95544e-06	0.999978
rad22	2.50398e-06	0.999986	3.53286e-06	0.999981
rad64	2.19954e-06	0.999988	3.10334e-06	0.999984
rad60syn	2.12286e-06	0.999990	2.99516e-06	0.999987
rad65	1.51889e-06	0.999992	2.14300e-06	0.999989
rad60anti	1.46914e-06	0.999993	2.07281e-06	0.999992
rad68syn	9.11263e-07	0.999994	1.28570e-06	0.999993
rad42	8.19473e-07	0.999995	1.15620e-06	0.999994
rad21	6.17716e-07	0.999996	8.71541e-07	0.999995
rad68anti	5.85479e-07	0.999996	8.26058e-07	0.999996
rad36	5.49292e-07	0.999997	7.74995e-07	0.999996
rad40syn	4.08457e-07	0.999997	5.76293e-07	0.999997
rad58	3.77501e-07	0.999998	5.32618e-07	0.999998
rad15	3.22139e-07	0.999998	4.54506e-07	0.999998
rad40anti	2.83969e-07	0.999998	4.00653e-07	0.999998
rad26	2.27550e-07	0.999998	3.21051e-07	0.999999
rad43	2.13487e-07	0.999999	3.01210e-07	0.999999
rad33	1.85641e-07	0.999999	2.61922e-07	0.999999
rad20	1.62084e-07	0.999999	2.28685e-07	1.000000
rad61	1.27150e-07	0.999999	1.79396e-07	1.000000
rad10	7.15102e-08	0.999999	1.00894e-07	1.000000
rad18	6.02121e-08	0.999999	8.49539e-08	1.000000
rad25	5.14929e-08	0.999999	7.26516e-08	1.000000
rad12	3.45959e-08	0.999999	4.88116e-08	1.000000
rad41	2.77121e-08	0.999999	3.90991e-08	1.000000
rad24	2.41884e-08	0.999999	3.41275e-08	1.000000
rad2	1.81154e-08	0.999999	2.55591e-08	1.000000
rad3	1.18818e-08	0.999999	1.67641e-08	1.000000
rad4	7.47735e-09	0.999999	1.05498e-08	1.000000
rad1	5.10109e-09	0.999999	7.19715e-09	1.000000
rad14	2.44809e-09	0.999999	3.45401e-09	1.000000
rad47	2.36864e-09	0.999999	3.34193e-09	1.000000
rad8	2.31270e-09	0.999999	3.26300e-09	1.000000
rad5	3.60429e-10	0.999999	5.08533e-10	1.000000
rad27	1.38108e-10	0.999999	1.94857e-10	1.000000

10000.0000 Pa, 2250.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.23655e-11	(1.00)	1.57993e-11	(1.00)
Formation of rad11	4.62280e-12	(0.207)	1.97134e-12	(0.125)
Formation of rad6	6.82518e-12	(0.305)	2.91051e-12	(0.184)
H-abstraction	1.09175e-11	(0.488)	1.09175e-11	(0.691)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.691009	0.691009
Phenyl+Allene	0.293584	0.781724	0.000000	0.691009
PhCH2CCH+H	0.0958744	0.877598	0.135720	0.826729
PhCHCCH2+H	0.0526054	0.930204	0.0744680	0.901197
C2H2+PhCH2	0.0226519	0.952856	0.0320658	0.933263
PhCCH+CH3	0.0172500	0.970106	0.0244191	0.957682
Indene+H	0.0136847	0.983790	0.0193721	0.977054
PAH7+H	0.00598948	0.989780	0.00847870	0.985533
Ph+MeAc	0.00370580	0.993486	0.00524592	0.990778
PhcycC3H3_A+H	0.00121858	0.994704	0.00172503	0.992504
rad19syn	0.00106200	0.995766	0.00150336	0.994007
rad6	0.00101674	0.996783	0.00143929	0.995446
rad39	0.000838032	0.997621	0.00118631	0.996632
rad54	0.000469253	0.998090	0.000664271	0.997297
rad19anti	0.000447896	0.998538	0.000634040	0.997931
PAH9+H	0.000300803	0.998839	0.000425817	0.998357
PhCCCH3+H	0.000201727	0.999041	0.000285564	0.998642
rad38	0.000177274	0.999218	0.000250948	0.998893
PAH1+H	0.000114066	0.999332	0.000161471	0.999055
rad50	8.76765e-05	0.999420	0.000124115	0.999179
rad46	5.93036e-05	0.999479	8.39497e-05	0.999263
rad35	5.52942e-05	0.999534	7.82744e-05	0.999341
rad51	4.77955e-05	0.999582	6.76591e-05	0.999409
PAH10+CH3	4.59959e-05	0.999628	6.51117e-05	0.999474
rad55	4.42107e-05	0.999672	6.25845e-05	0.999536
rad70	4.18991e-05	0.999714	5.93123e-05	0.999596
PAH3+H	3.69288e-05	0.999751	5.22763e-05	0.999648
rad67	3.34193e-05	0.999785	4.73083e-05	0.999695
rad56	2.72588e-05	0.999812	3.85874e-05	0.999734
rad71	2.47321e-05	0.999837	3.50108e-05	0.999769
rad53	2.17089e-05	0.999858	3.07311e-05	0.999800
rad30	1.59879e-05	0.999874	2.26324e-05	0.999822
rad37	1.56099e-05	0.999890	2.20973e-05	0.999844

rad7	1.53060e-05	0.999905	2.16672e-05	0.999866
rad34	1.24538e-05	0.999918	1.76295e-05	0.999884
rad11	1.23005e-05	0.999930	1.74125e-05	0.999901
rad52	1.01700e-05	0.999940	1.43966e-05	0.999915
rad23	8.84110e-06	0.999949	1.25154e-05	0.999928
rad73	8.17983e-06	0.999957	1.15793e-05	0.999939
rad62	5.84872e-06	0.999963	8.27944e-06	0.999948
PAH8+H	5.52404e-06	0.999969	7.81981e-06	0.999956
rad72	4.51500e-06	0.999973	6.39141e-06	0.999962
rad28	3.71896e-06	0.999977	5.26455e-06	0.999967
rad59	3.19174e-06	0.999980	4.51822e-06	0.999972
rad64	2.68826e-06	0.999983	3.80550e-06	0.999976
rad9	2.68179e-06	0.999985	3.79632e-06	0.999979
rad60syn	2.20623e-06	0.999988	3.12312e-06	0.999982
rad13	1.64154e-06	0.999989	2.32376e-06	0.999985
rad60anti	1.54711e-06	0.999991	2.19009e-06	0.999987
rad68syn	1.35196e-06	0.999992	1.91383e-06	0.999989
rad45	1.32777e-06	0.999993	1.87960e-06	0.999991
rad65	1.19018e-06	0.999995	1.68481e-06	0.999992
rad68anti	8.68247e-07	0.999995	1.22909e-06	0.999994
rad42	8.35847e-07	0.999996	1.18322e-06	0.999995
rad22	7.04181e-07	0.999997	9.96838e-07	0.999996
rad40syn	5.76313e-07	0.999998	8.15825e-07	0.999997
rad58	4.77225e-07	0.999998	6.75559e-07	0.999997
rad40anti	3.88872e-07	0.999998	5.50485e-07	0.999998
rad21	2.84563e-07	0.999999	4.02825e-07	0.999998
rad36	2.33558e-07	0.999999	3.30623e-07	0.999999
rad43	2.29911e-07	0.999999	3.25463e-07	0.999999
rad15	1.51664e-07	0.999999	2.14695e-07	0.999999
rad61	1.38675e-07	1.000000	1.96308e-07	0.999999
rad33	9.86850e-08	1.000000	1.39698e-07	0.999999
rad26	7.74766e-08	1.000000	1.09676e-07	1.000000
rad20	6.64798e-08	1.000000	9.41084e-08	1.000000
rad41	2.97502e-08	1.000000	4.21142e-08	1.000000
rad10	2.67152e-08	1.000000	3.78180e-08	1.000000
rad25	2.59377e-08	1.000000	3.67174e-08	1.000000
rad18	2.18404e-08	1.000000	3.09173e-08	1.000000
rad12	2.13975e-08	1.000000	3.02903e-08	1.000000
rad24	1.35148e-08	1.000000	1.91315e-08	1.000000
rad2	5.53766e-09	1.000000	7.83909e-09	1.000000
rad3	4.83845e-09	1.000000	6.84930e-09	1.000000
rad4	2.99674e-09	1.000000	4.24219e-09	1.000000
rad8	2.01867e-09	1.000000	2.85763e-09	1.000000
rad1	1.54568e-09	1.000000	2.18806e-09	1.000000
rad14	1.33900e-09	1.000000	1.89548e-09	1.000000
rad47	1.30120e-09	1.000000	1.84197e-09	1.000000
rad5	2.25363e-10	1.000000	3.19024e-10	1.000000
rad27	6.66262e-11	1.000000	9.43157e-11	1.000000

10000.0000 Pa, 2500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.28090e-11 (1.00)	2.31806e-11 (1.00)
Formation of rad11	6.43164e-12 (0.196)	2.60215e-12 (0.112)
Formation of rad6	9.73932e-12 (0.297)	3.94038e-12 (0.170)
H-abstraction	1.66381e-11 (0.507)	1.66381e-11 (0.718)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.717758	0.717758
Phenyl+Allene	0.293469	0.800588	0.000000	0.717758
PhCH2CCH+H	0.0940886	0.894676	0.133170	0.850928
PhCHCCH2+H	0.0479919	0.942668	0.0679262	0.918855
C2H2+PhCH2	0.0181993	0.960867	0.0257587	0.944613
PhCCH+CH3	0.0147554	0.975623	0.0208844	0.965498
Indene+H	0.00929151	0.984914	0.0131509	0.978649
PAH7+H	0.00551017	0.990424	0.00779890	0.986448
Ph+MeAc	0.00338657	0.993811	0.00479325	0.991241
PhcycC3H3_A+H	0.00155996	0.995371	0.00220793	0.993449
rad19syn	0.00125087	0.996622	0.00177044	0.995219
rad39	0.000696333	0.997318	0.000985568	0.996205
rad54	0.000564970	0.997883	0.000799641	0.997004
rad19anti	0.000386672	0.998270	0.000547283	0.997552
rad6	0.000330431	0.998600	0.000467683	0.998019
PAH9+H	0.000270393	0.998871	0.000382705	0.998402
rad38	0.000163582	0.999034	0.000231529	0.998634
PhCCCH3+H	0.000162592	0.999197	0.000230127	0.998864
PAH1+H	0.000135254	0.999332	0.000191433	0.999055
rad50	8.30998e-05	0.999415	0.000117617	0.999173

rad46	5.61515e-05	0.999471	7.94747e-05	0.999252
rad55	5.53678e-05	0.999527	7.83661e-05	0.999331
rad35	5.23608e-05	0.999579	7.41096e-05	0.999405
PAH10+CH3	5.14051e-05	0.999630	7.27574e-05	0.999477
rad70	4.97234e-05	0.999680	7.03767e-05	0.999548
PAH3+H	4.37480e-05	0.999724	6.19193e-05	0.999610
rad51	4.15052e-05	0.999765	5.87452e-05	0.999668
rad56	3.89065e-05	0.999804	5.50670e-05	0.999724
rad67	3.78072e-05	0.999842	5.35110e-05	0.999777
rad53	3.03405e-05	0.999872	4.29428e-05	0.999820
rad34	1.58379e-05	0.999888	2.24164e-05	0.999842
rad30	1.42936e-05	0.999903	2.02307e-05	0.999863
rad37	1.42012e-05	0.999917	2.01000e-05	0.999883
rad71	1.34339e-05	0.999930	1.90139e-05	0.999902
rad52	9.40950e-06	0.999940	1.33179e-05	0.999915
PAH8+H	8.85935e-06	0.999949	1.25392e-05	0.999928
rad7	6.64759e-06	0.999955	9.40878e-06	0.999937
rad62	6.23761e-06	0.999961	8.82855e-06	0.999946
rad11	4.93803e-06	0.999966	6.98915e-06	0.999953
rad73	4.92995e-06	0.999971	6.97772e-06	0.999960
rad59	3.63473e-06	0.999975	5.14447e-06	0.999965
rad64	3.36655e-06	0.999978	4.76492e-06	0.999970
rad23	2.90875e-06	0.999981	4.11695e-06	0.999974
rad60syn	2.30123e-06	0.999983	3.25710e-06	0.999977
rad72	2.17285e-06	0.999986	3.07539e-06	0.999980
rad68syn	2.04933e-06	0.999988	2.90054e-06	0.999983
rad60anti	1.63418e-06	0.999989	2.31296e-06	0.999985
rad68anti	1.31390e-06	0.999991	1.85965e-06	0.999987
rad28	1.18275e-06	0.999992	1.67403e-06	0.999989
rad9	1.16305e-06	0.999993	1.64615e-06	0.999991
rad65	1.05552e-06	0.999994	1.49395e-06	0.999992
rad40syn	9.08982e-07	0.999995	1.28654e-06	0.999993
rad42	8.66530e-07	0.999996	1.22646e-06	0.999995
rad13	7.73839e-07	0.999997	1.09526e-06	0.999996
rad58	6.35975e-07	0.999997	9.00136e-07	0.999997
rad40anti	6.16649e-07	0.999998	8.72784e-07	0.999997
rad45	5.75971e-07	0.999998	8.15210e-07	0.999998
rad43	2.56478e-07	0.999999	3.63011e-07	0.999999
rad22	2.44455e-07	0.999999	3.45994e-07	0.999999
rad61	1.74808e-07	0.999999	2.47418e-07	0.999999
rad21	1.39522e-07	0.999999	1.97475e-07	0.999999
rad36	1.02572e-07	0.999999	1.45177e-07	1.000000
rad15	7.12539e-08	0.999999	1.00850e-07	1.000000
rad33	5.45541e-08	0.999999	7.72140e-08	1.000000
rad41	3.45140e-08	1.000000	4.88498e-08	1.000000
rad26	3.09424e-08	1.000000	4.37949e-08	1.000000
rad20	3.03426e-08	1.000000	4.29459e-08	1.000000
rad25	1.37749e-08	1.000000	1.94965e-08	1.000000
rad12	1.28538e-08	1.000000	1.81929e-08	1.000000
rad10	1.13515e-08	1.000000	1.60666e-08	1.000000
rad18	9.07597e-09	1.000000	1.28459e-08	1.000000
rad24	7.74888e-09	1.000000	1.09675e-08	1.000000
rad3	2.15199e-09	1.000000	3.04587e-09	1.000000
rad2	1.96899e-09	1.000000	2.78685e-09	1.000000
rad8	1.76388e-09	1.000000	2.49655e-09	1.000000
rad4	1.30918e-09	1.000000	1.85297e-09	1.000000
rad47	1.00362e-09	1.000000	1.42050e-09	1.000000
rad14	7.81133e-10	1.000000	1.10559e-09	1.000000
rad1	5.34870e-10	1.000000	7.57034e-10	1.000000
rad5	1.52556e-10	1.000000	2.15923e-10	1.000000
rad27	3.63385e-11	1.000000	5.14323e-11	1.000000

10000.0000 Pa, 2750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.60596e-11 (1.00)	3.26199e-11 (1.00)
Formation of rad11	8.62280e-12 (0.187)	3.34415e-12 (0.103)
Formation of rad6	1.33313e-11 (0.289)	5.17023e-12 (0.158)
H-abstraction	2.41055e-11 (0.523)	2.41055e-11 (0.739)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.738982	0.738982
Phenyl+Allene	0.291790	0.815145	0.000000	0.738982
PhCH2CCH+H	0.0912881	0.906433	0.128899	0.867882
PhCHCCH2+H	0.0440298	0.950462	0.0621705	0.930052
C2H2+PhCH2	0.0154894	0.965952	0.0218713	0.951923
PhCCH+CH3	0.0128301	0.978782	0.0181162	0.970040
Indene+H	0.00645611	0.985238	0.00911610	0.979156

PAH7+H	0.00505992	0.990298	0.00714468	0.986300
Ph+MeAc	0.00314802	0.993446	0.00444503	0.990745
PhcycC3H3_A+H	0.00199862	0.995445	0.00282207	0.993568
rad19syn	0.00144448	0.996889	0.00203962	0.995607
rad54	0.000654639	0.997544	0.000924361	0.996531
rad39	0.000586417	0.998130	0.000828027	0.997360
rad19anti	0.000326429	0.998457	0.000460921	0.997820
PAH9+H	0.000242912	0.998699	0.000342993	0.998163
PAH1+H	0.000160405	0.998860	0.000226494	0.998390
rad38	0.000151609	0.999012	0.000214074	0.998604
PhCCCH3+H	0.000136350	0.999148	0.000192527	0.998797
rad6	0.000122903	0.999271	0.000173540	0.998970
rad50	8.75526e-05	0.999358	0.000123625	0.999094
rad55	6.67270e-05	0.999425	9.42193e-05	0.999188
rad56	5.68981e-05	0.999482	8.03405e-05	0.999268
rad70	5.65559e-05	0.999538	7.98571e-05	0.999348
PAH10+CH3	5.53314e-05	0.999594	7.81281e-05	0.999426
rad46	5.40702e-05	0.999648	7.63477e-05	0.999503
PAH3+H	5.09958e-05	0.999699	7.20065e-05	0.999575
rad35	4.94825e-05	0.999748	6.98700e-05	0.999644
rad51	4.43911e-05	0.999793	6.26806e-05	0.999707
rad53	4.20824e-05	0.999835	5.94207e-05	0.999767
rad67	4.10244e-05	0.999876	5.79269e-05	0.999824
rad34	1.91827e-05	0.999895	2.70861e-05	0.999852
PAH8+H	1.44643e-05	0.999910	2.04238e-05	0.999872
rad30	1.30000e-05	0.999923	1.83562e-05	0.999890
rad37	1.25045e-05	0.999935	1.76565e-05	0.999908
rad71	1.06668e-05	0.999946	1.50617e-05	0.999923
rad52	1.00441e-05	0.999956	1.41823e-05	0.999937
rad62	7.17556e-06	0.999963	1.01320e-05	0.999947
rad73	4.42119e-06	0.999967	6.24276e-06	0.999954
rad64	4.18343e-06	0.999972	5.90704e-06	0.999960
rad59	4.07777e-06	0.999976	5.75784e-06	0.999965
rad7	3.11900e-06	0.999979	4.40405e-06	0.999970
rad68syn	2.95915e-06	0.999982	4.17835e-06	0.999974
rad60syn	2.39064e-06	0.999984	3.37561e-06	0.999977
rad11	2.17959e-06	0.999986	3.07761e-06	0.999980
rad68anti	1.89392e-06	0.999988	2.67423e-06	0.999983
rad60anti	1.71669e-06	0.999990	2.42399e-06	0.999985
rad40syn	1.40669e-06	0.999991	1.98626e-06	0.999987
rad72	1.37867e-06	0.999993	1.94669e-06	0.999989
rad65	1.09885e-06	0.999994	1.55159e-06	0.999991
rad23	1.09643e-06	0.999995	1.54818e-06	0.999992
rad42	1.06256e-06	0.999996	1.50034e-06	0.999994
rad40anti	9.73791e-07	0.999997	1.37500e-06	0.999995
rad58	8.34639e-07	0.999998	1.17852e-06	0.999997
rad9	5.15106e-07	0.999998	7.27334e-07	0.999997
rad28	4.38136e-07	0.999999	6.18651e-07	0.999998
rad13	3.89621e-07	0.999999	5.50150e-07	0.999998
rad43	2.94718e-07	0.999999	4.16146e-07	0.999999
rad45	2.61782e-07	1.000000	3.69638e-07	0.999999
rad61	2.24295e-07	1.000000	3.16706e-07	1.000000
rad22	9.73052e-08	1.000000	1.37396e-07	1.000000
rad21	7.34253e-08	1.000000	1.03677e-07	1.000000
rad36	4.71362e-08	1.000000	6.65569e-08	1.000000
rad41	4.39162e-08	1.000000	6.20103e-08	1.000000
rad15	3.41424e-08	1.000000	4.82095e-08	1.000000
rad33	3.15708e-08	1.000000	4.45782e-08	1.000000
rad20	1.55374e-08	1.000000	2.19389e-08	1.000000
rad26	1.33957e-08	1.000000	1.89149e-08	1.000000
rad25	7.77404e-09	1.000000	1.09770e-08	1.000000
rad12	7.77180e-09	1.000000	1.09739e-08	1.000000
rad10	5.21379e-09	1.000000	7.36190e-09	1.000000
rad24	4.60456e-09	1.000000	6.50169e-09	1.000000
rad18	4.22127e-09	1.000000	5.96047e-09	1.000000
rad8	1.54830e-09	1.000000	2.18621e-09	1.000000
rad3	1.04415e-09	1.000000	1.47435e-09	1.000000
rad47	1.00304e-09	1.000000	1.41630e-09	1.000000
rad2	7.98252e-10	1.000000	1.12714e-09	1.000000
rad4	6.25955e-10	1.000000	8.83851e-10	1.000000
rad14	4.86626e-10	1.000000	6.87124e-10	1.000000
rad1	2.08148e-10	1.000000	2.93909e-10	1.000000
rad5	1.08006e-10	1.000000	1.52505e-10	1.000000
rad27	2.19808e-11	1.000000	3.10371e-11	1.000000

10000.0000 Pa, 3000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.43900e-11 (1.00)

Formation of rad11	1.12221e-11 (0.180)	4.21224e-12 (0.0949)
Formation of rad6	1.76534e-11 (0.283)	6.62628e-12 (0.149)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.756)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.755834	0.755834
Phenyl+Allene	0.288929	0.826381	0.00000	0.755834
PhCH2CCH+H	0.0882705	0.914651	0.124138	0.879971
PhCHCCH2+H	0.0407929	0.955444	0.0573683	0.937340
C2H2+PhCH2	0.0138563	0.969300	0.0194866	0.956826
PhCCH+CH3	0.0113467	0.980647	0.0159572	0.972783
PAH7+H	0.00465033	0.985297	0.00653987	0.979323
Indene+H	0.00461749	0.989915	0.00649372	0.985817
Ph+MeAc	0.00297509	0.992890	0.00418396	0.990001
PhcycC3H3_A+H	0.00246672	0.995357	0.00346902	0.993470
rad19syn	0.00161780	0.996974	0.00227515	0.995745
rad54	0.000728496	0.997703	0.00102450	0.996770
rad39	0.000501777	0.998205	0.000705665	0.997475
rad19anti	0.000274573	0.998479	0.000386139	0.997861
PAH9+H	0.000216190	0.998695	0.000304033	0.998165
PAH1+H	0.000185924	0.998881	0.000261470	0.998427
rad38	0.000138839	0.999020	0.000195253	0.998622
PhCCCH3+H	0.000117957	0.999138	0.000165886	0.998788
rad50	9.33530e-05	0.999231	0.000131285	0.998919
rad56	7.87882e-05	0.999310	0.000110803	0.999030
rad55	7.68811e-05	0.999387	0.000108120	0.999138
rad70	6.22433e-05	0.999449	8.75348e-05	0.999226
PAH3+H	5.80031e-05	0.999507	8.15715e-05	0.999307
PAH10+CH3	5.74569e-05	0.999565	8.08036e-05	0.999388
rad53	5.52806e-05	0.999620	7.77425e-05	0.999466
rad46	5.14909e-05	0.999672	7.24134e-05	0.999538
rad6	5.08475e-05	0.999722	7.15087e-05	0.999610
rad51	5.01764e-05	0.999773	7.05648e-05	0.999680
rad35	4.64579e-05	0.999819	6.53350e-05	0.999746
rad67	4.30413e-05	0.999862	6.05303e-05	0.999806
rad34	2.22981e-05	0.999884	3.13585e-05	0.999838
PAH8+H	2.21433e-05	0.999907	3.11407e-05	0.999869
rad71	1.21477e-05	0.999919	1.70837e-05	0.999886
rad30	1.19599e-05	0.999931	1.68196e-05	0.999903
rad52	1.09871e-05	0.999942	1.54515e-05	0.999918
rad37	1.08158e-05	0.999952	1.52106e-05	0.999933
rad62	8.61201e-06	0.999961	1.21113e-05	0.999945
rad73	5.23309e-06	0.999966	7.35946e-06	0.999953
rad64	5.01097e-06	0.999971	7.04708e-06	0.999960
rad59	4.48176e-06	0.999976	6.30283e-06	0.999966
rad68syn	4.01447e-06	0.999980	5.64566e-06	0.999972
rad68anti	2.56560e-06	0.999982	3.60809e-06	0.999975
rad60syn	2.46200e-06	0.999985	3.46240e-06	0.999979
rad40syn	2.04038e-06	0.999987	2.86944e-06	0.999982
rad60anti	1.78496e-06	0.999989	2.51025e-06	0.999984
rad7	1.58128e-06	0.999990	2.22381e-06	0.999986
rad40anti	1.44198e-06	0.999992	2.02790e-06	0.999989
rad42	1.40191e-06	0.999993	1.97155e-06	0.999990
rad72	1.36083e-06	0.999994	1.91378e-06	0.999992
rad65	1.20824e-06	0.999996	1.69918e-06	0.999994
rad11	1.05789e-06	0.999997	1.48774e-06	0.999996
rad58	1.05349e-06	0.999998	1.48155e-06	0.999997
rad23	4.53864e-07	0.999998	6.38282e-07	0.999998
rad43	3.37840e-07	0.999999	4.75116e-07	0.999998
rad61	2.76182e-07	0.999999	3.88403e-07	0.999999
rad9	2.38889e-07	0.999999	3.35958e-07	0.999999
rad13	2.10692e-07	0.999999	2.96303e-07	0.999999
rad28	1.80766e-07	0.999999	2.54216e-07	0.999999
rad45	1.25694e-07	1.000000	1.76768e-07	1.000000
rad41	5.62663e-08	1.000000	7.91287e-08	1.000000
rad22	4.31834e-08	1.000000	6.07300e-08	1.000000
rad21	4.15292e-08	1.000000	5.84038e-08	1.000000
rad36	2.28487e-08	1.000000	3.21328e-08	1.000000
rad33	1.91846e-08	1.000000	2.69799e-08	1.000000
rad15	1.70306e-08	1.000000	2.39506e-08	1.000000
rad20	8.90050e-09	1.000000	1.25170e-08	1.000000
rad26	6.17031e-09	1.000000	8.67752e-09	1.000000
rad12	4.82568e-09	1.000000	6.78648e-09	1.000000
rad25	4.66994e-09	1.000000	6.56746e-09	1.000000
rad24	2.84583e-09	1.000000	4.00218e-09	1.000000
rad10	2.56764e-09	1.000000	3.61095e-09	1.000000
rad18	2.17448e-09	1.000000	3.05804e-09	1.000000
rad8	1.36542e-09	1.000000	1.92023e-09	1.000000
rad47	1.09048e-09	1.000000	1.53358e-09	1.000000

rad3	5.52644e-10	1.000000	7.77196e-10	1.000000
rad2	3.66509e-10	1.000000	5.15432e-10	1.000000
rad4	3.29148e-10	1.000000	4.62890e-10	1.000000
rad14	3.26097e-10	1.000000	4.58600e-10	1.000000
rad1	9.12525e-11	1.000000	1.28331e-10	1.000000
rad5	7.88303e-11	1.000000	1.10861e-10	1.000000
rad27	1.44391e-11	1.000000	2.03061e-11	1.000000

10000.0000 Pa, 3250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.22129e-11 (1.00)	5.87539e-11 (1.00)
Formation of rad11	1.42538e-11 (0.173)	5.21862e-12 (0.0888)
Formation of rad6	2.27549e-11 (0.277)	8.33103e-12 (0.142)
H-abstraction	4.52043e-11 (0.550)	4.52043e-11 (0.769)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.549844	0.549844	0.769383	0.769383
Phenyl+Allene	0.285344	0.835188	0.000000	0.769383
PhCH2CCH+H	0.0853595	0.920548	0.119442	0.888825
PhCHCCH2+H	0.0381781	0.958726	0.0534217	0.942246
C2H2+PhCH2	0.0128659	0.971592	0.0180030	0.960249
PhCCH+CH3	0.0101888	0.981781	0.0142569	0.974506
PAH7+H	0.00428147	0.986062	0.00599094	0.980497
Indene+H	0.00340051	0.989463	0.00475825	0.985255
PhcycC3H3_A+H	0.00292473	0.992387	0.00409250	0.989348
Ph+MeAc	0.00285164	0.995239	0.00399022	0.993338
rad19syn	0.00176129	0.997000	0.00246451	0.995803
rad54	0.000783668	0.997784	0.00109656	0.996899
rad39	0.000435830	0.998220	0.000609845	0.997509
rad19anti	0.000232310	0.998452	0.000325066	0.997834
PAH1+H	0.000210626	0.998663	0.000294724	0.998129
PAH9+H	0.000190046	0.998853	0.000265927	0.998395
rad38	0.000125166	0.998978	0.000175142	0.998570
PhCCCH3+H	0.000104462	0.999082	0.000146171	0.998716
rad56	0.000102644	0.999185	0.000143627	0.998860
rad50	9.74462e-05	0.999283	0.000136354	0.998996
rad55	8.52249e-05	0.999368	0.000119253	0.999115
rad53	6.87618e-05	0.999437	9.62168e-05	0.999212
rad70	6.67942e-05	0.999503	9.34632e-05	0.999305
PAH3+H	6.43800e-05	0.999568	9.00852e-05	0.999395
PAH10+CH3	5.80791e-05	0.999626	8.12689e-05	0.999476
rad51	5.58995e-05	0.999682	7.82190e-05	0.999555
rad46	4.81442e-05	0.999730	6.73666e-05	0.999622
rad67	4.40772e-05	0.999774	6.16762e-05	0.999684
rad35	4.33412e-05	0.999817	6.06462e-05	0.999744
PAH8+H	3.16594e-05	0.999849	4.43001e-05	0.999789
rad34	2.50860e-05	0.999874	3.51022e-05	0.999824
rad6	2.31844e-05	0.999897	3.24413e-05	0.999856
rad71	1.58405e-05	0.999913	2.21653e-05	0.999878
rad52	1.17659e-05	0.999925	1.64637e-05	0.999895
rad30	1.10746e-05	0.999936	1.54963e-05	0.999910
rad62	1.07103e-05	0.999947	1.49867e-05	0.999925
rad37	9.28496e-06	0.999956	1.29922e-05	0.999938
rad73	6.66127e-06	0.999963	9.32096e-06	0.999948
rad64	5.78482e-06	0.999968	8.09458e-06	0.999956
rad68syn	5.15757e-06	0.999973	7.21685e-06	0.999963
rad59	4.82653e-06	0.999978	6.75364e-06	0.999970
rad68anti	3.29223e-06	0.999982	4.60673e-06	0.999974
rad40syn	2.78127e-06	0.999984	3.89177e-06	0.999978
rad60syn	2.50952e-06	0.999987	3.51151e-06	0.999982
rad40anti	2.00224e-06	0.999989	2.80167e-06	0.999984
rad42	1.91563e-06	0.999991	2.68048e-06	0.999987
rad60anti	1.83445e-06	0.999993	2.56690e-06	0.999990
rad72	1.78442e-06	0.999994	2.49689e-06	0.999992
rad65	1.31422e-06	0.999996	1.83896e-06	0.999994
rad58	1.27821e-06	0.999997	1.78857e-06	0.999996
rad7	8.61716e-07	0.999998	1.20578e-06	0.999997
rad11	5.60939e-07	0.999998	7.84911e-07	0.999998
rad43	3.85770e-07	0.999999	5.39798e-07	0.999998
rad61	3.24785e-07	0.999999	4.54463e-07	0.999999
rad23	2.03079e-07	0.999999	2.84164e-07	0.999999
rad13	1.21945e-07	0.999999	1.70634e-07	0.999999
rad9	1.17375e-07	1.000000	1.64241e-07	0.999999
rad28	8.18244e-08	1.000000	1.14495e-07	1.000000
rad41	7.13227e-08	1.000000	9.97999e-08	1.000000
rad45	6.37389e-08	1.000000	8.91883e-08	1.000000
rad21	2.50850e-08	1.000000	3.51008e-08	1.000000

rad22	2.11142e-08	1.000000	2.95446e-08	1.000000
rad33	1.21967e-08	1.000000	1.70665e-08	1.000000
rad36	1.16776e-08	1.000000	1.63402e-08	1.000000
rad15	8.93123e-09	1.000000	1.24973e-08	1.000000
rad20	5.61646e-09	1.000000	7.85896e-09	1.000000
rad12	3.10238e-09	1.000000	4.34109e-09	1.000000
rad26	3.01888e-09	1.000000	4.22425e-09	1.000000
rad25	2.96946e-09	1.000000	4.15509e-09	1.000000
rad24	1.82591e-09	1.000000	2.55496e-09	1.000000
rad10	1.34780e-09	1.000000	1.88594e-09	1.000000
rad18	1.22194e-09	1.000000	1.70983e-09	1.000000
rad8	1.20703e-09	1.000000	1.68896e-09	1.000000
rad47	1.18056e-09	1.000000	1.65193e-09	1.000000
rad3	3.16231e-10	1.000000	4.42494e-10	1.000000
rad14	2.36957e-10	1.000000	3.31567e-10	1.000000
rad4	1.89157e-10	1.000000	2.64684e-10	1.000000
rad2	1.87461e-10	1.000000	2.62308e-10	1.000000
rad5	5.92905e-11	1.000000	8.29637e-11	1.000000
rad1	4.47733e-11	1.000000	6.26503e-11	1.000000
rad27	1.01216e-11	1.000000	1.41629e-11	1.000000

10000.0000 Pa, 3500.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.05713e-10	(1.00)	7.59658e-11	(1.00)
Formation of rad11	1.77412e-11	(0.168)	6.37293e-12	(0.0839)
Formation of rad6	2.86822e-11	(0.271)	1.03031e-11	(0.136)
H-abstraction	5.92897e-11	(0.561)	5.92897e-11	(0.780)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.780479	0.780479
Phenyl+Allene	0.281397	0.842252	0.00000	0.780479
PhCH2CCH+H	0.0826608	0.924913	0.115030	0.895509
PhCHCCH2+H	0.0360567	0.960969	0.0501762	0.945685
C2H2+PhCH2	0.0122591	0.973229	0.0170596	0.962745
PhCCH+CH3	0.00926957	0.982498	0.0128994	0.975644
PAH7+H	0.00394965	0.986448	0.00549629	0.981141
PhcycC3H3_A+H	0.00334989	0.989798	0.00466167	0.985802
Ph+MeAc	0.00276388	0.992562	0.00384620	0.989648
Indene+H	0.00257425	0.995136	0.00358231	0.993231
rad19syn	0.00187281	0.997009	0.00260619	0.995837
rad54	0.000820565	0.997829	0.00114189	0.996979
rad39	0.000383352	0.998212	0.000533470	0.997512
PAH1+H	0.000234735	0.998447	0.000326655	0.997839
PAH19anti	0.000198524	0.998646	0.000276264	0.998115
PAH9+H	0.000165151	0.998811	0.000229823	0.998345
rad56	0.000126936	0.998938	0.000176642	0.998522
rad38	0.000111189	0.999049	0.000154730	0.998676
rad50	9.89531e-05	0.999148	0.000137702	0.998814
PhCCCH3+H	9.42336e-05	0.999242	0.000131134	0.998945
rad55	9.15882e-05	0.999334	0.000127453	0.999073
rad53	8.17091e-05	0.999416	0.000113705	0.999186
rad70	7.02734e-05	0.999486	9.77916e-05	0.999284
PAH3+H	6.99339e-05	0.999556	9.73189e-05	0.999382
rad51	6.02854e-05	0.999616	8.38924e-05	0.999465
PAH10+CH3	5.76220e-05	0.999674	8.01862e-05	0.999546
rad67	4.43743e-05	0.999718	6.17507e-05	0.999607
rad46	4.42162e-05	0.999762	6.15307e-05	0.999669
PAH8+H	4.27176e-05	0.999805	5.94453e-05	0.999728
rad35	4.02629e-05	0.999845	5.60293e-05	0.999784
rad34	2.74981e-05	0.999873	3.82662e-05	0.999823
rad71	2.06686e-05	0.999893	2.87622e-05	0.999851
rad62	1.37309e-05	0.999907	1.91078e-05	0.999871
rad52	1.22128e-05	0.999919	1.69952e-05	0.999888
rad6	1.15440e-05	0.999931	1.60645e-05	0.999904
rad30	1.02900e-05	0.999941	1.43194e-05	0.999918
rad73	8.32382e-06	0.999949	1.15834e-05	0.999930
rad37	7.96193e-06	0.999957	1.10797e-05	0.999941
rad64	6.47959e-06	0.999964	9.01694e-06	0.999950
rad68syn	6.33805e-06	0.999970	8.81996e-06	0.999958
rad59	5.10506e-06	0.999975	7.10419e-06	0.999966
rad68anti	4.04181e-06	0.999979	5.62453e-06	0.999971
rad40syn	3.60059e-06	0.999983	5.01053e-06	0.999976
rad42	2.66862e-06	0.999986	3.71363e-06	0.999980
rad40anti	2.63450e-06	0.999988	3.66615e-06	0.999984
rad60syn	2.53256e-06	0.999991	3.52427e-06	0.999987
rad72	2.49402e-06	0.999993	3.47064e-06	0.999991
rad60anti	1.86457e-06	0.999995	2.59471e-06	0.999993

rad58	1.49875e-06	0.999997	2.08564e-06	0.999995
rad65	1.38880e-06	0.999998	1.93264e-06	0.999997
rad7	5.00187e-07	0.999999	6.96054e-07	0.999998
rad43	4.42781e-07	0.999999	6.16170e-07	0.999998
rad61	3.67656e-07	0.999999	5.11626e-07	0.999999
rad11	3.21468e-07	1.000000	4.47350e-07	0.999999
rad23	9.74130e-08	1.000000	1.35559e-07	1.000000
rad41	9.00033e-08	1.000000	1.25248e-07	1.000000
rad13	7.49731e-08	1.000000	1.04332e-07	1.000000
rad9	6.12924e-08	1.000000	8.52940e-08	1.000000
rad28	4.02532e-08	1.000000	5.60159e-08	1.000000
rad45	3.39776e-08	1.000000	4.72830e-08	1.000000
rad21	1.60379e-08	1.000000	2.23182e-08	1.000000
rad22	1.12484e-08	1.000000	1.56531e-08	1.000000
rad33	8.06526e-09	1.000000	1.12235e-08	1.000000
rad36	6.26314e-09	1.000000	8.71573e-09	1.000000
rad15	4.93582e-09	1.000000	6.86862e-09	1.000000
rad20	3.82958e-09	1.000000	5.32919e-09	1.000000
rad12	2.06838e-09	1.000000	2.87833e-09	1.000000
rad25	1.98266e-09	1.000000	2.75904e-09	1.000000
rad26	1.56638e-09	1.000000	2.17976e-09	1.000000
rad47	1.24180e-09	1.000000	1.72807e-09	1.000000
rad24	1.21180e-09	1.000000	1.68633e-09	1.000000
rad8	1.06686e-09	1.000000	1.48463e-09	1.000000
rad10	7.49024e-10	1.000000	1.04233e-09	1.000000
rad18	7.37176e-10	1.000000	1.02585e-09	1.000000
rad3	1.93340e-10	1.000000	2.69051e-10	1.000000
rad14	1.87697e-10	1.000000	2.61197e-10	1.000000
rad4	1.17406e-10	1.000000	1.63380e-10	1.000000
rad2	1.04710e-10	1.000000	1.45713e-10	1.000000
rad5	4.59588e-11	1.000000	6.39560e-11	1.000000
rad1	2.42756e-11	1.000000	3.37816e-11	1.000000
rad27	7.51127e-12	1.000000	1.04526e-11	1.000000

10000.0000 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.33217e-10 (1.00)	9.62719e-11 (1.00)
Formation of rad11	2.17064e-11 (0.163)	7.68308e-12 (0.0798)
Formation of rad6	3.54800e-11 (0.266)	1.25583e-11 (0.130)
H-abstraction	7.60305e-11 (0.571)	7.60305e-11 (0.790)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789748	0.789748
Phenyl+Allene	0.277330	0.848057	0.000000	0.789748
PhCH2CCH+H	0.0801929	0.928250	0.110967	0.900715
PhCHCCH2+H	0.0343181	0.962568	0.0474879	0.948203
C2H2+PhCH2	0.0118840	0.974452	0.0164446	0.964648
PhCCH+CH3	0.00852793	0.982980	0.0118006	0.976448
PhcycC3H3_A+H	0.00372931	0.986709	0.00516047	0.981609
PAH7+H	0.00365054	0.990360	0.00505145	0.986660
Ph+MeAc	0.00270109	0.993061	0.00373765	0.990398
Indene+H	0.00199890	0.995060	0.00276599	0.993164
rad19syn	0.00195371	0.997014	0.00270346	0.995867
rad54	0.000841023	0.997855	0.00116377	0.997031
rad39	0.000340606	0.998195	0.000471316	0.997502
PAH1+H	0.000258998	0.998454	0.000358389	0.997861
rad19anti	0.000171576	0.998626	0.000237419	0.998098
rad56	0.000150447	0.998776	0.000208182	0.998306
PAH9+H	0.000142200	0.998918	0.000196771	0.998503
rad50	9.79643e-05	0.999016	0.000135559	0.998639
rad38	9.75630e-05	0.999114	0.000135003	0.998774
rad55	9.60232e-05	0.999210	0.000132872	0.998907
rad53	9.35561e-05	0.999304	0.000129459	0.999036
PhCCCH3+H	8.63439e-05	0.999390	0.000119479	0.999156
PAH3+H	7.46059e-05	0.999465	0.000103236	0.999259
rad70	7.27725e-05	0.999537	0.000100700	0.999360
rad51	6.29138e-05	0.999600	8.70576e-05	0.999447
PAH10+CH3	5.64592e-05	0.999657	7.81259e-05	0.999525
PAH8+H	5.49705e-05	0.999712	7.60656e-05	0.999601
rad67	4.41344e-05	0.999756	6.10713e-05	0.999662
rad46	3.99997e-05	0.999796	5.53499e-05	0.999717
rad35	3.73344e-05	0.999833	5.16617e-05	0.999769
rad34	2.95165e-05	0.999863	4.08438e-05	0.999810
rad71	2.59482e-05	0.999889	3.59060e-05	0.999846
rad62	1.78863e-05	0.999906	2.47502e-05	0.999870
rad52	1.23064e-05	0.999919	1.70291e-05	0.999887
rad73	9.98853e-06	0.999929	1.38217e-05	0.999901

rad30	9.57995e-06	0.999938	1.32563e-05	0.999914
rad68syn	7.51245e-06	0.999946	1.03954e-05	0.999925
rad64	7.08854e-06	0.999953	9.80878e-06	0.999935
rad37	6.84609e-06	0.999960	9.47330e-06	0.999944
rad6	6.21102e-06	0.999966	8.59456e-06	0.999953
rad59	5.31878e-06	0.999971	7.35989e-06	0.999960
rad68anti	4.78682e-06	0.999976	6.62380e-06	0.999967
rad40syn	4.46993e-06	0.999981	6.18528e-06	0.999973
rad42	3.72551e-06	0.999984	5.15519e-06	0.999978
rad72	3.39455e-06	0.999988	4.69724e-06	0.999983
rad40anti	3.31793e-06	0.999991	4.59121e-06	0.999987
rad60syn	2.53361e-06	0.999994	3.50589e-06	0.999991
rad60anti	1.87706e-06	0.999995	2.59739e-06	0.999993
rad58	1.70833e-06	0.999997	2.36393e-06	0.999996
rad65	1.42532e-06	0.999999	1.97230e-06	0.999998
rad43	5.13878e-07	0.999999	7.11083e-07	0.999998
rad61	4.04053e-07	0.999999	5.59111e-07	0.999999
rad7	3.06319e-07	1.000000	4.23870e-07	0.999999
rad11	1.96842e-07	1.000000	2.72381e-07	1.000000
rad41	1.13611e-07	1.000000	1.57210e-07	1.000000
rad23	4.97514e-08	1.000000	6.88439e-08	1.000000
rad13	4.85649e-08	1.000000	6.72018e-08	1.000000
rad9	3.39580e-08	1.000000	4.69896e-08	1.000000
rad28	2.13164e-08	1.000000	2.94967e-08	1.000000
rad45	1.89314e-08	1.000000	2.61966e-08	1.000000
rad21	1.07590e-08	1.000000	1.48879e-08	1.000000
rad22	6.45523e-09	1.000000	8.93249e-09	1.000000
rad33	5.51555e-09	1.000000	7.63219e-09	1.000000
rad36	3.50487e-09	1.000000	4.84988e-09	1.000000
rad15	2.86912e-09	1.000000	3.97017e-09	1.000000
rad20	2.77263e-09	1.000000	3.83666e-09	1.000000
rad12	1.42770e-09	1.000000	1.97558e-09	1.000000
rad25	1.37906e-09	1.000000	1.90828e-09	1.000000
rad47	1.26635e-09	1.000000	1.75232e-09	1.000000
rad8	9.41052e-10	1.000000	1.30219e-09	1.000000
rad26	8.58996e-10	1.000000	1.18864e-09	1.000000
rad24	8.28973e-10	1.000000	1.14709e-09	1.000000
rad18	4.70981e-10	1.000000	6.51722e-10	1.000000
rad10	4.37897e-10	1.000000	6.05942e-10	1.000000
rad14	1.61285e-10	1.000000	2.23178e-10	1.000000
rad3	1.24939e-10	1.000000	1.72885e-10	1.000000
rad4	7.77082e-11	1.000000	1.07529e-10	1.000000
rad2	6.28035e-11	1.000000	8.69049e-11	1.000000
rad5	3.66531e-11	1.000000	5.07189e-11	1.000000
rad1	1.43372e-11	1.000000	1.98391e-11	1.000000
rad27	5.89027e-12	1.000000	8.15071e-12	1.000000

10000.0000 Pa, 4000.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.65008e-10	(1.00)	1.19913e-10	(1.00)
Formation of rad11	2.61707e-11	(0.159)	9.15582e-12	(0.0764)
Formation of rad6	4.31906e-11	(0.262)	1.51102e-11	(0.126)
H-abstraction	9.56470e-11	(0.580)	9.56470e-11	(0.798)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.579650	0.579650	0.797636	0.797636
Phenyl+Allene	0.273291	0.852940	0.000000	0.797636
PhCH2CCH+H	0.0779426	0.930883	0.107255	0.904891
PhCHCCH2+H	0.0328765	0.963760	0.0452402	0.950131
C2H2+PhCH2	0.0116510	0.975411	0.0160326	0.966164
PhCCH+CH3	0.00792117	0.983332	0.0109001	0.977064
PhcycC3H3_A+H	0.00405667	0.987388	0.00558224	0.982646
PAH7+H	0.00338041	0.990769	0.00465167	0.987298
Ph+MeAc	0.00265532	0.993424	0.00365390	0.990952
rad19syn	0.00200701	0.995431	0.00276180	0.993713
Indene+H	0.00158876	0.997020	0.00218624	0.995900
rad54	0.000847443	0.997867	0.00116614	0.997066
rad39	0.000305044	0.998172	0.000419761	0.997485
PAH1+H	0.000284154	0.998457	0.000391015	0.997877
rad56	0.000172252	0.998629	0.000237031	0.998114
rad19anti	0.000149963	0.998779	0.000206358	0.998320
PAH9+H	0.000121659	0.998900	0.000167411	0.998487
rad53	0.000103939	0.999004	0.000143027	0.998630
rad55	9.87012e-05	0.999103	0.000135820	0.998766
rad50	9.49635e-05	0.999198	0.000130676	0.998897
rad38	8.47952e-05	0.999283	0.000116684	0.999014
PhCCCH3+H	8.02209e-05	0.999363	0.000110389	0.999124

PAH3+H	7.84218e-05	0.999441	0.000107914	0.999232
rad70	7.43974e-05	0.999516	0.000102376	0.999334
PAH8+H	6.80358e-05	0.999584	9.36218e-05	0.999428
rad51	6.38134e-05	0.999648	8.78115e-05	0.999516
PAH10+CH3	5.48746e-05	0.999703	7.55114e-05	0.999591
rad67	4.35143e-05	0.999746	5.98788e-05	0.999651
rad46	3.57619e-05	0.999782	4.92108e-05	0.999700
rad35	3.46287e-05	0.999816	4.76514e-05	0.999748
rad71	3.11974e-05	0.999848	4.29299e-05	0.999791
rad34	3.11447e-05	0.999879	4.28572e-05	0.999834
rad62	2.32448e-05	0.999902	3.19864e-05	0.999866
rad52	1.20931e-05	0.999914	1.66410e-05	0.999882
rad73	1.15101e-05	0.999926	1.58387e-05	0.999898
rad30	8.93253e-06	0.999935	1.22918e-05	0.999910
rad68syn	8.64467e-06	0.999943	1.18957e-05	0.999922
rad64	7.61351e-06	0.999951	1.04767e-05	0.999933
rad37	5.91618e-06	0.999957	8.14107e-06	0.999941
rad68anti	5.50449e-06	0.999962	7.57452e-06	0.999949
rad59	5.47376e-06	0.999968	7.53228e-06	0.999956
rad40syn	5.36207e-06	0.999973	7.37857e-06	0.999963
rad42	5.12289e-06	0.999978	7.04946e-06	0.999970
rad72	4.40998e-06	0.999983	6.06840e-06	0.999977
rad40anti	4.03157e-06	0.999987	5.54770e-06	0.999982
rad6	3.57370e-06	0.999990	4.91766e-06	0.999987
rad60syn	2.51660e-06	0.999993	3.46303e-06	0.999990
rad58	1.90276e-06	0.999995	2.61832e-06	0.999993
rad60anti	1.87481e-06	0.999997	2.57987e-06	0.999996
rad65	1.42720e-06	0.999998	1.96393e-06	0.999998
rad43	6.01912e-07	0.999999	8.28273e-07	0.999998
rad61	4.34096e-07	0.999999	5.97345e-07	0.999999
rad7	1.96283e-07	0.999999	2.70099e-07	0.999999
rad41	1.43071e-07	0.999999	1.96875e-07	1.000000
rad11	1.27458e-07	0.999999	1.75390e-07	1.000000
rad13	3.29015e-08	1.000000	4.52746e-08	1.000000
rad23	2.68962e-08	1.000000	3.70109e-08	1.000000
rad9	1.98790e-08	1.000000	2.73549e-08	1.000000
rad28	1.20383e-08	1.000000	1.65656e-08	1.000000
rad45	1.09673e-08	1.000000	1.50917e-08	1.000000
rad21	7.51725e-09	1.000000	1.03442e-08	1.000000
rad22	3.94874e-09	1.000000	5.43373e-09	1.000000
rad33	3.88193e-09	1.000000	5.34180e-09	1.000000
rad20	2.10230e-09	1.000000	2.89291e-09	1.000000
rad36	2.03573e-09	1.000000	2.80130e-09	1.000000
rad15	1.74753e-09	1.000000	2.40471e-09	1.000000
rad47	1.25689e-09	1.000000	1.72957e-09	1.000000
rad12	1.01722e-09	1.000000	1.39977e-09	1.000000
rad25	9.92498e-10	1.000000	1.36574e-09	1.000000
rad8	8.27531e-10	1.000000	1.13874e-09	1.000000
rad24	5.82854e-10	1.000000	8.02044e-10	1.000000
rad26	4.95723e-10	1.000000	6.82150e-10	1.000000
rad18	3.15357e-10	1.000000	4.33953e-10	1.000000
rad10	2.67874e-10	1.000000	3.68614e-10	1.000000
rad14	1.47809e-10	1.000000	2.03396e-10	1.000000
rad3	8.45943e-11	1.000000	1.16408e-10	1.000000
rad4	5.42307e-11	1.000000	7.46251e-11	1.000000
rad2	3.99572e-11	1.000000	5.49838e-11	1.000000
rad5	2.99849e-11	1.000000	4.12612e-11	1.000000
rad1	9.09979e-12	1.000000	1.25219e-11	1.000000
rad27	4.87043e-12	1.000000	6.70202e-12	1.000000

1000.00000 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.56740e-51 (1.00)	1.56740e-51 (1.00)
Formation of rad11	1.56740e-51 (1.000)	1.56740e-51 (1.000)
Formation of rad6	3.73945e-60 (2.39e-09)	3.73945e-60 (2.39e-09)
H-abstraction	1.53631e-76 (9.80e-26)	1.53631e-76 (9.80e-26)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.975987	0.975987	0.975987	0.975987
rad6	0.0228310	0.998818	0.0228310	0.998818
rad22	0.000585682	0.999404	0.000585682	0.999404
rad20	0.000175760	0.999579	0.000175760	0.999579
rad18	0.000135750	0.999715	0.000135750	0.999715
rad21	0.000127704	0.999843	0.000127704	0.999843
Indene+H	7.42004e-05	0.999917	7.42004e-05	0.999917
rad45	7.00164e-05	0.999987	7.00164e-05	0.999987
rad23	5.37325e-06	0.999992	5.37325e-06	0.999992

rad36	4.37425e-06	0.999997	4.37425e-06	0.999997
C2H2+PhCH2	2.70280e-06	1.000000	2.70280e-06	1.000000
rad25	4.66431e-07	1.000000	4.66431e-07	1.000000
rad7	3.10224e-07	1.000000	3.10224e-07	1.000000
rad13	1.50011e-07	1.000000	1.50011e-07	1.000000
PhCHCCH2+H	2.80749e-08	1.000000	2.80749e-08	1.000000
rad9	1.45530e-09	1.000000	1.45530e-09	1.000000
rad33	2.72578e-10	1.000000	2.72578e-10	1.000000
rad3	1.30005e-10	1.000000	1.30005e-10	1.000000
rad4	6.62024e-11	1.000000	6.62024e-11	1.000000
rad30	2.89414e-11	1.000000	2.89414e-11	1.000000
rad24	1.82003e-11	1.000000	1.82003e-11	1.000000
Phenyl+Allene	1.77598e-11	1.000000	0.000000	1.000000
rad15	4.41655e-12	1.000000	4.41655e-12	1.000000
rad28	4.37069e-12	1.000000	4.37069e-12	1.000000
rad2	2.44158e-13	1.000000	2.44158e-13	1.000000
rad8	2.25558e-14	1.000000	2.25558e-14	1.000000
rad1	1.57174e-14	1.000000	1.57174e-14	1.000000
rad38	1.28946e-14	1.000000	1.28946e-14	1.000000
PhCCH+CH3	1.10132e-15	1.000000	1.10132e-15	1.000000
PAH9+H	2.60569e-16	1.000000	2.60569e-16	1.000000
rad35	1.50613e-16	1.000000	1.50613e-16	1.000000
rad14	9.22574e-17	1.000000	9.22574e-17	1.000000
PhCH2CCH+H	6.31266e-17	1.000000	6.31266e-17	1.000000
rad60syn	5.68389e-17	1.000000	5.68389e-17	1.000000
rad46	5.67907e-17	1.000000	5.67907e-17	1.000000
rad10	3.34100e-17	1.000000	3.34100e-17	1.000000
rad60anti	4.24078e-18	1.000000	4.24078e-18	1.000000
rad31	4.29941e-20	1.000000	4.29941e-20	1.000000
PAH7+H	3.54491e-20	1.000000	3.54491e-20	1.000000
rad27	3.39776e-20	1.000000	3.39776e-20	1.000000
Ph+MeAc	2.86296e-20	1.000000	2.86296e-20	1.000000
PhCCCH3+H	1.09287e-20	1.000000	1.09287e-20	1.000000
rad39	7.15463e-23	1.000000	7.15463e-23	1.000000
rad26	5.15390e-23	1.000000	5.15390e-23	1.000000
PAH3+H	1.24580e-24	1.000000	1.24580e-24	1.000000
rad59	6.08189e-25	1.000000	6.08189e-25	1.000000
Benzene+2-propynyl	9.80165e-26	1.000000	9.80165e-26	1.000000
rad50	1.07718e-27	1.000000	1.07718e-27	1.000000
rad5	3.61975e-31	1.000000	3.61975e-31	1.000000
rad12	2.05145e-32	1.000000	2.05145e-32	1.000000
rad19syn	2.70797e-34	1.000000	2.70797e-34	1.000000
rad37	1.99237e-34	1.000000	1.99237e-34	1.000000
rad52	7.50232e-36	1.000000	7.50232e-36	1.000000
rad54	4.93920e-37	1.000000	4.93920e-37	1.000000
rad70	3.55761e-40	1.000000	3.55761e-40	1.000000
rad51	1.44238e-40	1.000000	1.44238e-40	1.000000
rad62	5.16595e-41	1.000000	5.16595e-41	1.000000
rad43	4.85247e-42	1.000000	4.85247e-42	1.000000
PhcycC3H3_A+H	1.13977e-43	1.000000	1.13977e-43	1.000000
rad58	1.11062e-43	1.000000	1.11062e-43	1.000000
rad55	1.07010e-43	1.000000	1.07010e-43	1.000000
rad65	3.83717e-45	1.000000	3.83717e-45	1.000000
PAH10+CH3	1.72329e-45	1.000000	1.72329e-45	1.000000
rad34	5.84626e-46	1.000000	5.84626e-46	1.000000
rad47	2.98227e-48	1.000000	2.98227e-48	1.000000
PAH1+H	8.52121e-50	1.000000	8.52121e-50	1.000000
rad42	2.96640e-52	1.000000	2.96640e-52	1.000000
rad41	1.19316e-54	1.000000	1.19316e-54	1.000000

1000.00000 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.03204e-39 (1.00)	5.03204e-39 (1.00)
Formation of rad11	5.03203e-39 (1.000)	5.03203e-39 (1.000)
Formation of rad6	9.92181e-45 (1.97e-06)	9.92181e-45 (1.97e-06)
H-abstraction	3.33191e-55 (6.62e-17)	3.33191e-55 (6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.952152	0.952152	0.952152	0.952152
rad6	0.0454859	0.997638	0.0454859	0.997638
rad22	0.00134955	0.998987	0.00134955	0.998987
Indene+H	0.000330344	0.999318	0.000330344	0.999318
rad18	0.000230158	0.999548	0.000230158	0.999548
rad45	0.000162203	0.999710	0.000162203	0.999710
rad20	0.000143149	0.999853	0.000143149	0.999853
rad21	9.86871e-05	0.999952	9.86871e-05	0.999952
rad23	2.68646e-05	0.999979	2.68646e-05	0.999979

rad36	1.01157e-05	0.999989	1.01157e-05	0.999989
C2H2+PhCH2	8.14984e-06	0.999997	8.14984e-06	0.999997
rad7	1.22269e-06	0.999998	1.22269e-06	0.999998
rad25	8.99317e-07	0.999999	8.99317e-07	0.999999
rad13	2.46852e-07	0.999999	2.46852e-07	0.999999
PhCHCCH2+H	5.74607e-08	1.000000	5.74607e-08	1.000000
rad9	2.99650e-09	1.000000	2.99650e-09	1.000000
rad3	6.10625e-10	1.000000	6.10625e-10	1.000000
rad33	3.75388e-10	1.000000	3.75388e-10	1.000000
rad4	3.09916e-10	1.000000	3.09916e-10	1.000000
rad30	1.50853e-10	1.000000	1.50853e-10	1.000000
Phenyl+Allene	4.16700e-11	1.000000	0.00000	1.000000
rad15	2.35320e-11	1.000000	2.35320e-11	1.000000
rad28	2.12324e-11	1.000000	2.12324e-11	1.000000
rad24	6.21719e-12	1.000000	6.21719e-12	1.000000
rad2	2.43171e-12	1.000000	2.43171e-12	1.000000
rad1	1.55253e-13	1.000000	1.55253e-13	1.000000
rad8	8.27993e-14	1.000000	8.27993e-14	1.000000
rad38	7.03115e-14	1.000000	7.03115e-14	1.000000
PhCCH+CH3	1.14179e-14	1.000000	1.14179e-14	1.000000
PAH9+H	2.88979e-15	1.000000	2.88979e-15	1.000000
rad35	1.66406e-15	1.000000	1.66406e-15	1.000000
rad14	9.34107e-16	1.000000	9.34107e-16	1.000000
rad10	6.86609e-16	1.000000	6.86609e-16	1.000000
rad60syn	3.45490e-16	1.000000	3.45490e-16	1.000000
rad46	3.18442e-16	1.000000	3.18442e-16	1.000000
PhCH2CCH+H	1.44777e-16	1.000000	1.44777e-16	1.000000
Benzene+2-propynyl	6.62139e-17	1.000000	6.62139e-17	1.000000
rad60anti	2.34035e-17	1.000000	2.34035e-17	1.000000
rad27	6.53217e-19	1.000000	6.53217e-19	1.000000
Ph+MeAc	3.12234e-19	1.000000	3.12234e-19	1.000000
PhCCCH3+H	2.31974e-19	1.000000	2.31974e-19	1.000000
rad31	1.98096e-19	1.000000	1.98096e-19	1.000000
PAH7+H	1.40742e-19	1.000000	1.40742e-19	1.000000
rad26	2.18330e-21	1.000000	2.18330e-21	1.000000
rad39	7.69341e-22	1.000000	7.69341e-22	1.000000
PAH3+H	4.11177e-24	1.000000	4.11177e-24	1.000000
rad59	2.02321e-24	1.000000	2.02321e-24	1.000000
rad50	5.66111e-27	1.000000	5.66111e-27	1.000000
rad5	7.50085e-30	1.000000	7.50085e-30	1.000000
rad12	1.08149e-30	1.000000	1.08149e-30	1.000000
rad19syn	2.04693e-33	1.000000	2.04693e-33	1.000000
rad37	1.84463e-33	1.000000	1.84463e-33	1.000000
rad52	3.33115e-35	1.000000	3.33115e-35	1.000000
rad54	2.11858e-36	1.000000	2.11858e-36	1.000000
rad62	6.19566e-40	1.000000	6.19566e-40	1.000000
rad51	5.54228e-40	1.000000	5.54228e-40	1.000000
rad70	5.00442e-40	1.000000	5.00442e-40	1.000000
rad43	1.05461e-40	1.000000	1.05461e-40	1.000000
PhcycC3H3_A+H	6.28909e-43	1.000000	6.28909e-43	1.000000
rad55	4.12190e-43	1.000000	4.12190e-43	1.000000
rad58	1.48909e-43	1.000000	1.48909e-43	1.000000
PAH10+CH3	2.80574e-44	1.000000	2.80574e-44	1.000000
rad65	2.67634e-44	1.000000	2.67634e-44	1.000000
rad34	5.65625e-46	1.000000	5.65625e-46	1.000000
rad47	6.44653e-48	1.000000	6.44653e-48	1.000000
PAH1+H	6.55348e-49	1.000000	6.55348e-49	1.000000
rad42	1.87598e-51	1.000000	1.87598e-51	1.000000
rad41	1.53320e-53	1.000000	1.53320e-53	1.000000

1000.00000 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.35697e-33 (1.00)	9.35697e-33 (1.00)
Formation of rad11	9.35644e-33 (1.000)	9.35644e-33 (1.000)
Formation of rad6	5.26139e-37 (5.62e-05)	5.26139e-37 (5.62e-05)
H-abstraction	1.44763e-44 (1.55e-12)	1.44763e-44 (1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.929351	0.929351	0.929351	0.929351
rad6	0.0671485	0.996499	0.0671485	0.996499
rad22	0.00204600	0.998545	0.00204600	0.998545
Indene+H	0.000677726	0.999223	0.000677726	0.999223
rad18	0.000251797	0.999475	0.000251797	0.999475
rad45	0.000245068	0.999720	0.000245068	0.999720
rad20	0.000108948	0.999829	0.000108948	0.999829
rad21	7.36866e-05	0.999903	7.36866e-05	0.999903
rad23	6.34720e-05	0.999966	6.34720e-05	0.999966

rad36	1.52671e-05	0.999981	1.52671e-05	0.999981
C2H2+PhCH2	1.43351e-05	0.999996	1.43351e-05	0.999996
rad7	2.65318e-06	0.999998	2.65318e-06	0.999998
rad25	1.29687e-06	1.000000	1.29687e-06	1.000000
rad13	3.16731e-07	1.000000	3.16731e-07	1.000000
PhCHCCH2+H	8.90926e-08	1.000000	8.90926e-08	1.000000
rad9	4.70137e-09	1.000000	4.70137e-09	1.000000
rad3	1.44242e-09	1.000000	1.44242e-09	1.000000
rad4	7.31450e-10	1.000000	7.31450e-10	1.000000
rad33	4.50351e-10	1.000000	4.50351e-10	1.000000
rad30	3.43873e-10	1.000000	3.43873e-10	1.000000
Phenyl+Allene	8.39325e-11	1.000000	0.000000	1.000000
rad15	5.46280e-11	1.000000	5.46280e-11	1.000000
rad28	5.15232e-11	1.000000	5.15232e-11	1.000000
rad2	8.89481e-12	1.000000	8.89481e-12	1.000000
rad24	5.81193e-12	1.000000	5.81193e-12	1.000000
Benzene+2-propynyl	1.54712e-12	1.000000	1.54712e-12	1.000000
rad1	5.66890e-13	1.000000	5.66890e-13	1.000000
rad8	1.80900e-13	1.000000	1.80900e-13	1.000000
rad38	1.79973e-13	1.000000	1.79973e-13	1.000000
PhCCH+CH3	4.41186e-14	1.000000	4.41186e-14	1.000000
PAH9+H	1.10970e-14	1.000000	1.10970e-14	1.000000
rad35	6.36018e-15	1.000000	6.36018e-15	1.000000
rad10	3.84509e-15	1.000000	3.84509e-15	1.000000
rad14	3.49357e-15	1.000000	3.49357e-15	1.000000
rad60syn	9.51935e-16	1.000000	9.51935e-16	1.000000
rad46	8.42917e-16	1.000000	8.42917e-16	1.000000
PhCH2CCH+H	3.01523e-16	1.000000	3.01523e-16	1.000000
rad60anti	6.65211e-17	1.000000	6.65211e-17	1.000000
rad27	3.46012e-18	1.000000	3.46012e-18	1.000000
Ph+MeAc	1.43745e-18	1.000000	1.43745e-18	1.000000
PhCCCH3+H	1.38274e-18	1.000000	1.38274e-18	1.000000
rad31	4.69112e-19	1.000000	4.69112e-19	1.000000
PAH7+H	3.87256e-19	1.000000	3.87256e-19	1.000000
rad26	1.92386e-20	1.000000	1.92386e-20	1.000000
rad39	3.26923e-21	1.000000	3.26923e-21	1.000000
PAH3+H	9.64968e-24	1.000000	9.64968e-24	1.000000
rad59	4.76017e-24	1.000000	4.76017e-24	1.000000
rad50	1.87657e-26	1.000000	1.87657e-26	1.000000
rad5	5.67141e-29	1.000000	5.67141e-29	1.000000
rad12	1.55890e-29	1.000000	1.55890e-29	1.000000
rad37	1.76893e-32	1.000000	1.76893e-32	1.000000
rad19syn	8.49720e-33	1.000000	8.49720e-33	1.000000
rad52	1.08114e-34	1.000000	1.08114e-34	1.000000
rad54	6.75585e-36	1.000000	6.75585e-36	1.000000
rad62	3.39714e-39	1.000000	3.39714e-39	1.000000
rad51	1.72864e-39	1.000000	1.72864e-39	1.000000
rad43	8.44851e-40	1.000000	8.44851e-40	1.000000
rad70	7.74382e-40	1.000000	7.74382e-40	1.000000
PhcycC3H3_A+H	2.23614e-42	1.000000	2.23614e-42	1.000000
rad55	1.27902e-42	1.000000	1.27902e-42	1.000000
PAH10+CH3	3.81319e-43	1.000000	3.81319e-43	1.000000
rad58	2.24107e-43	1.000000	2.24107e-43	1.000000
rad65	1.10582e-43	1.000000	1.10582e-43	1.000000
rad34	6.91365e-46	1.000000	6.91365e-46	1.000000
rad47	1.54599e-47	1.000000	1.54599e-47	1.000000
PAH1+H	3.08314e-48	1.000000	3.08314e-48	1.000000
rad42	7.57828e-51	1.000000	7.57828e-51	1.000000
rad41	1.00796e-52	1.000000	1.00796e-52	1.000000

1000.00000 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.52690e-29 (1.00)	5.52690e-29 (1.00)
Formation of rad11	5.52459e-29 (1.000)	5.52459e-29 (1.000)
Formation of rad6	2.30840e-32 (0.000418)	2.30840e-32 (0.000418)
H-abstraction	3.35357e-38 (6.07e-10)	3.35357e-38 (6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.906790	0.906790	0.906790	0.906790
rad6	0.0885796	0.995370	0.0885796	0.995370
rad22	0.00268719	0.998057	0.00268719	0.998057
Indene+H	0.00107472	0.999132	0.00107472	0.999132
rad45	0.000319569	0.999451	0.000319569	0.999451
rad18	0.000244864	0.999696	0.000244864	0.999696
rad23	0.000113961	0.999810	0.000113961	0.999810
rad20	8.51113e-05	0.999895	8.51113e-05	0.999895
rad21	5.69276e-05	0.999952	5.69276e-05	0.999952

C2H2+PhCH2	2.10668e-05	0.999973	2.10668e-05	0.999973
rad36	1.98882e-05	0.999993	1.98882e-05	0.999993
rad7	4.61204e-06	0.999998	4.61204e-06	0.999998
rad25	1.67571e-06	0.999999	1.67571e-06	0.999999
rad13	3.77157e-07	1.000000	3.77157e-07	1.000000
PhCHCCH2+H	1.25140e-07	1.000000	1.25140e-07	1.000000
rad9	6.70994e-09	1.000000	6.70994e-09	1.000000
rad3	2.68471e-09	1.000000	2.68471e-09	1.000000
rad4	1.36121e-09	1.000000	1.36121e-09	1.000000
Benzene+2-propynyl	6.06773e-10	1.000000	6.06773e-10	1.000000
rad30	5.92723e-10	1.000000	5.92723e-10	1.000000
rad33	5.16722e-10	1.000000	5.16722e-10	1.000000
Phenyl+Allene	1.61839e-10	1.000000	0.000000	1.000000
rad28	9.89074e-11	1.000000	9.89074e-11	1.000000
rad15	9.57704e-11	1.000000	9.57704e-11	1.000000
rad2	2.30184e-11	1.000000	2.30184e-11	1.000000
rad24	6.31946e-12	1.000000	6.31946e-12	1.000000
rad1	1.46738e-12	1.000000	1.46738e-12	1.000000
rad38	3.50336e-13	1.000000	3.50336e-13	1.000000
rad8	3.37670e-13	1.000000	3.37670e-13	1.000000
PhCCH+CH3	1.24433e-13	1.000000	1.24433e-13	1.000000
PAH9+H	2.88131e-14	1.000000	2.88131e-14	1.000000
rad35	1.64221e-14	1.000000	1.64221e-14	1.000000
rad10	1.38007e-14	1.000000	1.38007e-14	1.000000
rad14	9.37518e-15	1.000000	9.37518e-15	1.000000
rad60syn	2.03781e-15	1.000000	2.03781e-15	1.000000
rad46	1.70607e-15	1.000000	1.70607e-15	1.000000
PhCH2CCH+H	6.64510e-16	1.000000	6.64510e-16	1.000000
rad60anti	1.61573e-16	1.000000	1.61573e-16	1.000000
rad27	1.18461e-17	1.000000	1.18461e-17	1.000000
Ph+MeAc	5.64948e-18	1.000000	5.64948e-18	1.000000
PhCCCH3+H	5.54387e-18	1.000000	5.54387e-18	1.000000
PAH7+H	1.01860e-18	1.000000	1.01860e-18	1.000000
rad31	8.83202e-19	1.000000	8.83202e-19	1.000000
rad26	1.01667e-19	1.000000	1.01667e-19	1.000000
rad39	1.10397e-20	1.000000	1.10397e-20	1.000000
PAH3+H	2.29514e-23	1.000000	2.29514e-23	1.000000
rad59	1.13266e-23	1.000000	1.13266e-23	1.000000
rad50	5.87407e-26	1.000000	5.87407e-26	1.000000
rad5	3.78764e-28	1.000000	3.78764e-28	1.000000
rad12	1.42604e-28	1.000000	1.42604e-28	1.000000
rad37	1.76494e-31	1.000000	1.76494e-31	1.000000
rad19syn	3.37517e-32	1.000000	3.37517e-32	1.000000
rad52	3.66732e-34	1.000000	3.66732e-34	1.000000
rad54	2.28658e-35	1.000000	2.28658e-35	1.000000
rad62	1.72118e-38	1.000000	1.72118e-38	1.000000
rad51	6.09215e-39	1.000000	6.09215e-39	1.000000
rad43	5.83095e-39	1.000000	5.83095e-39	1.000000
rad70	1.50217e-39	1.000000	1.50217e-39	1.000000
PhcycC3H3_A+H	8.27393e-42	1.000000	8.27393e-42	1.000000
rad55	4.40913e-42	1.000000	4.40913e-42	1.000000
PAH10+CH3	4.20049e-42	1.000000	4.20049e-42	1.000000
rad65	4.55552e-43	1.000000	4.55552e-43	1.000000
rad58	4.27674e-43	1.000000	4.27674e-43	1.000000
rad34	1.16556e-45	1.000000	1.16556e-45	1.000000
rad47	5.02016e-47	1.000000	5.02016e-47	1.000000
PAH1+H	1.45858e-47	1.000000	1.45858e-47	1.000000
rad42	3.30942e-50	1.000000	3.30942e-50	1.000000
rad41	6.75243e-52	1.000000	6.75243e-52	1.000000

1000.00000 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.83429e-26 (1.00)	1.83429e-26 (1.00)
Formation of rad11	1.83139e-26 (0.998)	1.83139e-26 (0.998)
Formation of rad6	2.90471e-29 (0.00158)	2.90471e-29 (0.00158)
H-abstraction	5.71259e-34 (3.11e-08)	5.71259e-34 (3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.883755	0.883755	0.883755	0.883755
rad6	0.110483	0.994238	0.110483	0.994238
rad22	0.00328536	0.997523	0.00328536	0.997523
Indene+H	0.00150797	0.999031	0.00150797	0.999031
rad45	0.000387314	0.999419	0.000387314	0.999419
rad18	0.000228041	0.999647	0.000228041	0.999647
rad23	0.000177675	0.999824	0.000177675	0.999824
rad20	6.85354e-05	0.999893	6.85354e-05	0.999893
rad21	4.54899e-05	0.999938	4.54899e-05	0.999938

C2H2+PhCH2	2.83645e-05	0.999967	2.83645e-05	0.999967
rad36	2.40810e-05	0.999991	2.40810e-05	0.999991
rad7	7.19272e-06	0.999998	7.19272e-06	0.999998
rad25	2.04015e-06	1.00000	2.04015e-06	1.00000
rad13	4.34708e-07	1.00000	4.34708e-07	1.00000
PhCHCCH2+H	1.67044e-07	1.00000	1.67044e-07	1.00000
Benzene+2-propynyl	3.11432e-08	1.00000	3.11432e-08	1.00000
rad9	9.12423e-09	1.00000	9.12423e-09	1.00000
rad3	4.48398e-09	1.00000	4.48398e-09	1.00000
rad4	2.27390e-09	1.00000	2.27390e-09	1.00000
rad30	8.92343e-10	1.00000	8.92343e-10	1.00000
rad33	5.81330e-10	1.00000	5.81330e-10	1.00000
Phenyl+Allene	2.98860e-10	1.00000	0.00000	1.00000
rad28	1.71772e-10	1.00000	1.71772e-10	1.00000
rad15	1.46542e-10	1.00000	1.46542e-10	1.00000
rad2	5.11955e-11	1.00000	5.11955e-11	1.00000
rad24	6.92543e-12	1.00000	6.92543e-12	1.00000
rad1	3.26765e-12	1.00000	3.26765e-12	1.00000
rad38	5.93282e-13	1.00000	5.93282e-13	1.00000
rad8	5.82126e-13	1.00000	5.82126e-13	1.00000
PhCCH+CH3	3.13312e-13	1.00000	3.13312e-13	1.00000
PAH9+H	6.11760e-14	1.00000	6.11760e-14	1.00000
rad10	4.10520e-14	1.00000	4.10520e-14	1.00000
rad35	3.46491e-14	1.00000	3.46491e-14	1.00000
rad14	2.19815e-14	1.00000	2.19815e-14	1.00000
rad60syn	3.85440e-15	1.00000	3.85440e-15	1.00000
rad46	3.01598e-15	1.00000	3.01598e-15	1.00000
PhCH2CCH+H	1.61869e-15	1.00000	1.61869e-15	1.00000
rad60anti	3.64967e-16	1.00000	3.64967e-16	1.00000
rad27	3.36737e-17	1.00000	3.36737e-17	1.00000
Ph+MeAc	2.20113e-17	1.00000	2.20113e-17	1.00000
PhCCCH3+H	1.94125e-17	1.00000	1.94125e-17	1.00000
PAH7+H	2.82040e-18	1.00000	2.82040e-18	1.00000
rad31	1.50083e-18	1.00000	1.50083e-18	1.00000
rad26	4.43343e-19	1.00000	4.43343e-19	1.00000
rad39	3.59036e-20	1.00000	3.59036e-20	1.00000
PAH3+H	5.97185e-23	1.00000	5.97185e-23	1.00000
rad59	2.94501e-23	1.00000	2.94501e-23	1.00000
rad50	1.91457e-25	1.00000	1.91457e-25	1.00000
rad5	2.88801e-27	1.00000	2.88801e-27	1.00000
rad12	1.14057e-27	1.00000	1.14057e-27	1.00000
rad37	1.91434e-30	1.00000	1.91434e-30	1.00000
rad19syn	1.56372e-31	1.00000	1.56372e-31	1.00000
rad52	1.40945e-33	1.00000	1.40945e-33	1.00000
rad54	9.38400e-35	1.00000	9.38400e-35	1.00000
rad62	1.02300e-37	1.00000	1.02300e-37	1.00000
rad43	4.64168e-38	1.00000	4.64168e-38	1.00000
rad51	2.59212e-38	1.00000	2.59212e-38	1.00000
rad70	3.65813e-39	1.00000	3.65813e-39	1.00000
PAH10+CH3	4.89240e-41	1.00000	4.89240e-41	1.00000
PhcycC3H3_A+H	3.70214e-41	1.00000	3.70214e-41	1.00000
rad55	1.88632e-41	1.00000	1.88632e-41	1.00000
rad65	2.13250e-42	1.00000	2.13250e-42	1.00000
rad58	1.03309e-42	1.00000	1.03309e-42	1.00000
rad34	2.66912e-45	1.00000	2.66912e-45	1.00000
rad47	2.21655e-46	1.00000	2.21655e-46	1.00000
PAH1+H	8.14476e-47	1.00000	8.14476e-47	1.00000
rad42	1.81962e-49	1.00000	1.81962e-49	1.00000
rad41	5.75865e-51	1.00000	5.75865e-51	1.00000

1000.00000 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17336e-24 (1.00)	1.17336e-24 (1.00)
Formation of rad11	1.16857e-24 (0.996)	1.16857e-24 (0.996)
Formation of rad6	4.79505e-27 (0.00409)	4.79505e-27 (0.00409)
H-abstraction	5.89821e-31 (5.03e-07)	5.89821e-31 (5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.859660	0.859660	0.859660	0.859660
rad6	0.133437	0.993097	0.133437	0.993097
rad22	0.00384557	0.996942	0.00384557	0.996942
Indene+H	0.00197299	0.998915	0.00197299	0.998915
rad45	0.000449217	0.999364	0.000449217	0.999364
rad23	0.000254193	0.999618	0.000254193	0.999618
rad18	0.000208566	0.999827	0.000208566	0.999827
rad20	5.65608e-05	0.999884	5.65608e-05	0.999884
rad21	3.73256e-05	0.999921	3.73256e-05	0.999921

C2H2+PhCH2	3.62731e-05	0.999957	3.62731e-05	0.999957
rad36	2.79053e-05	0.999985	2.79053e-05	0.999985
rad7	1.05487e-05	0.999996	1.05487e-05	0.999996
rad25	2.38934e-06	0.999998	2.38934e-06	0.999998
Benzene+2-propynyl	5.02676e-07	0.999999	5.02676e-07	0.999999
rad13	4.92706e-07	0.999999	4.92706e-07	0.999999
PhCHCCH2+H	2.16112e-07	0.999999	2.16112e-07	0.999999
rad9	1.20445e-08	0.999999	1.20445e-08	0.999999
rad3	7.08005e-09	0.999999	7.08005e-09	0.999999
rad4	3.59181e-09	0.999999	3.59181e-09	0.999999
rad30	1.24232e-09	0.999999	1.24232e-09	0.999999
rad33	6.47628e-10	0.999999	6.47628e-10	0.999999
Phenyl+Allene	5.29957e-10	0.999999	0.00000	0.999999
rad28	2.84332e-10	0.999999	2.84332e-10	0.999999
rad15	2.07272e-10	0.999999	2.07272e-10	0.999999
rad2	1.05513e-10	0.999999	1.05513e-10	0.999999
rad24	7.50479e-12	0.999999	7.50479e-12	0.999999
rad1	6.74718e-12	0.999999	6.74718e-12	0.999999
rad8	9.54125e-13	0.999999	9.54125e-13	0.999999
rad38	9.24270e-13	0.999999	9.24270e-13	0.999999
PhCCH+CH3	7.50459e-13	0.999999	7.50459e-13	0.999999
PAH9+H	1.15080e-13	0.999999	1.15080e-13	0.999999
rad10	1.11114e-13	0.999999	1.11114e-13	0.999999
rad35	6.47311e-14	0.999999	6.47311e-14	0.999999
rad14	4.82392e-14	0.999999	4.82392e-14	0.999999
rad60syn	6.76019e-15	0.999999	6.76019e-15	0.999999
rad46	4.92136e-15	0.999999	4.92136e-15	0.999999
PhCH2CCH+H	4.63858e-15	0.999999	4.63858e-15	0.999999
rad60anti	7.71741e-16	0.999999	7.71741e-16	0.999999
rad27	8.65264e-17	0.999999	8.65264e-17	0.999999
Ph+MeAc	8.10373e-17	0.999999	8.10373e-17	0.999999
PhCCCH3+H	6.35645e-17	0.999999	6.35645e-17	0.999999
PAH7+H	8.75948e-18	0.999999	8.75948e-18	0.999999
rad31	2.42191e-18	0.999999	2.42191e-18	0.999999
rad26	1.74707e-18	0.999999	1.74707e-18	0.999999
rad39	1.13169e-19	0.999999	1.13169e-19	0.999999
PAH3+H	1.82152e-22	0.999999	1.82152e-22	0.999999
rad59	8.96836e-23	0.999999	8.96836e-23	0.999999
rad50	6.90510e-25	0.999999	6.90510e-25	0.999999
rad5	2.38900e-26	0.999999	2.38900e-26	0.999999
rad12	8.09865e-27	0.999999	8.09865e-27	0.999999
rad37	2.05263e-29	0.999999	2.05263e-29	0.999999
rad19syn	9.33632e-31	0.999999	9.33632e-31	0.999999
rad52	6.51836e-33	0.999999	6.51836e-33	0.999999
rad54	5.13191e-34	0.999999	5.13191e-34	0.999999
rad62	8.15834e-37	0.999999	8.15834e-37	0.999999
rad43	4.87548e-37	0.999999	4.87548e-37	0.999999
rad51	1.40387e-37	0.999999	1.40387e-37	0.999999
rad70	1.15794e-38	0.999999	1.15794e-38	0.999999
PAH10+CH3	6.98679e-40	0.999999	6.98679e-40	0.999999
PhcycC3H3_A+H	2.21867e-40	0.999999	2.21867e-40	0.999999
rad55	1.09567e-40	0.999999	1.09567e-40	0.999999
rad65	1.24009e-41	0.999999	1.24009e-41	0.999999
rad58	3.26743e-42	0.999999	3.26743e-42	0.999999
rad34	8.62762e-45	0.999999	8.62762e-45	0.999999
rad47	1.35994e-45	0.999999	1.35994e-45	0.999999
PAH1+H	5.98735e-46	0.999999	5.98735e-46	0.999999
rad42	1.41383e-48	0.999999	1.41383e-48	0.999999
rad41	7.31271e-50	0.999999	7.31271e-50	0.999999

1000.00000 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.68112e-23 (1.00)	2.68112e-23 (1.00)
Formation of rad11	2.65890e-23 (0.992)	2.65890e-23 (0.992)
Formation of rad6	2.22189e-25 (0.00829)	2.22189e-25 (0.00829)
H-abstraction	1.05871e-28 (3.95e-06)	1.05871e-28 (3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.834150	0.834150	0.834150	0.834150
rad6	0.157796	0.991946	0.157796	0.991946
rad22	0.00436950	0.996316	0.00436950	0.996316
Indene+H	0.00246864	0.998784	0.00246864	0.998784
rad45	0.000505844	0.999290	0.000505844	0.999290
rad23	0.000343274	0.999633	0.000343274	0.999633
rad18	0.000189239	0.999823	0.000189239	0.999823
rad20	4.75609e-05	0.999870	4.75609e-05	0.999870
C2H2+PhCH2	4.48577e-05	0.999915	4.48577e-05	0.999915

rad36	3.13995e-05	0.999946	3.13995e-05	0.999946
rad21	3.12432e-05	0.999978	3.12432e-05	0.999978
rad7	1.48515e-05	0.999992	1.48515e-05	0.999992
Benzene+2-propynyl	3.94877e-06	0.999996	3.94877e-06	0.999996
rad25	2.72077e-06	0.999999	2.72077e-06	0.999999
rad13	5.52685e-07	1.000000	5.52685e-07	1.000000
PhCHCCH2+H	2.73911e-07	1.000000	2.73911e-07	1.000000
rad9	1.55947e-08	1.000000	1.55947e-08	1.000000
rad3	1.07896e-08	1.000000	1.07896e-08	1.000000
rad4	5.47669e-09	1.000000	5.47669e-09	1.000000
rad30	1.64553e-09	1.000000	1.64553e-09	1.000000
Phenyl+Allene	9.08995e-10	1.000000	0.000000	1.000000
rad33	7.17104e-10	1.000000	7.17104e-10	1.000000
rad28	4.56665e-10	1.000000	4.56665e-10	1.000000
rad15	2.78891e-10	1.000000	2.78891e-10	1.000000
rad2	2.06726e-10	1.000000	2.06726e-10	1.000000
rad1	1.32503e-11	1.000000	1.32503e-11	1.000000
rad24	8.03413e-12	1.000000	8.03413e-12	1.000000
PhCCH+CH3	1.72084e-12	1.000000	1.72084e-12	1.000000
rad8	1.51195e-12	1.000000	1.51195e-12	1.000000
rad38	1.36395e-12	1.000000	1.36395e-12	1.000000
rad10	2.80738e-13	1.000000	2.80738e-13	1.000000
PAH9+H	2.00088e-13	1.000000	2.00088e-13	1.000000
rad35	1.11697e-13	1.000000	1.11697e-13	1.000000
rad14	1.00628e-13	1.000000	1.00628e-13	1.000000
PhCH2CCH+H	1.64556e-14	1.000000	1.64556e-14	1.000000
rad60syn	1.12840e-14	1.000000	1.12840e-14	1.000000
rad46	7.63335e-15	1.000000	7.63335e-15	1.000000
rad60anti	1.53160e-15	1.000000	1.53160e-15	1.000000
Ph+MeAc	2.69753e-16	1.000000	2.69753e-16	1.000000
rad27	2.05241e-16	1.000000	2.05241e-16	1.000000
PhCCCH3+H	1.94306e-16	1.000000	1.94306e-16	1.000000
PAH7+H	3.16445e-17	1.000000	3.16445e-17	1.000000
rad26	6.27496e-18	1.000000	6.27496e-18	1.000000
rad31	3.78642e-18	1.000000	3.78642e-18	1.000000
rad39	3.34207e-19	1.000000	3.34207e-19	1.000000
PAH3+H	7.21265e-22	1.000000	7.21265e-22	1.000000
rad59	3.53835e-22	1.000000	3.53835e-22	1.000000
rad50	2.90388e-24	1.000000	2.90388e-24	1.000000
rad5	1.93869e-25	1.000000	1.93869e-25	1.000000
rad12	5.01136e-26	1.000000	5.01136e-26	1.000000
rad37	1.99473e-28	1.000000	1.99473e-28	1.000000
rad19syn	7.64899e-30	1.000000	7.64899e-30	1.000000
rad52	3.91259e-32	1.000000	3.91259e-32	1.000000
rad54	4.04665e-33	1.000000	4.04665e-33	1.000000
rad62	9.29002e-36	1.000000	9.29002e-36	1.000000
rad43	6.90068e-36	1.000000	6.90068e-36	1.000000
rad51	1.04093e-36	1.000000	1.04093e-36	1.000000
rad70	5.30509e-38	1.000000	5.30509e-38	1.000000
PAH10+CH3	1.25811e-38	1.000000	1.25811e-38	1.000000
PhcycC3H3_A+H	1.94189e-39	1.000000	1.94189e-39	1.000000
rad55	9.37967e-40	1.000000	9.37967e-40	1.000000
rad65	9.88878e-41	1.000000	9.88878e-41	1.000000
rad58	1.50743e-41	1.000000	1.50743e-41	1.000000
rad34	4.46059e-44	1.000000	4.46059e-44	1.000000
rad47	1.22581e-44	1.000000	1.22581e-44	1.000000
PAH1+H	6.33892e-45	1.000000	6.33892e-45	1.000000
rad42	1.72756e-47	1.000000	1.72756e-47	1.000000
rad41	1.51733e-48	1.000000	1.51733e-48	1.000000

1000.00000 Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.08379e-22 (1.00)	3.08379e-22 (1.00)
Formation of rad11	3.03962e-22 (0.986)	3.03962e-22 (0.986)
Formation of rad6	4.41076e-24 (0.0143)	4.41076e-24 (0.0143)
H-abstraction	5.92916e-27 (1.92e-05)	5.92916e-27 (1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.807106	0.807106	0.807106	0.807106
rad6	0.183667	0.990774	0.183667	0.990774
rad22	0.00485771	0.995632	0.00485771	0.995632
Indene+H	0.00299560	0.998627	0.00299560	0.998627
rad45	0.000557645	0.999185	0.000557645	0.999185
rad23	0.000444895	0.999630	0.000444895	0.999630
rad18	0.000171103	0.999801	0.000171103	0.999801
C2H2+PhCH2	5.42117e-05	0.999855	5.42117e-05	0.999855
rad20	4.05630e-05	0.999896	4.05630e-05	0.999896

rad36	3.45941e-05	0.999930	3.45941e-05	0.999930
rad21	2.65466e-05	0.999957	2.65466e-05	0.999957
rad7	2.02529e-05	0.999977	2.02529e-05	0.999977
Benzene+2-propynyl	1.92269e-05	0.999996	1.92269e-05	0.999996
rad25	3.03150e-06	0.999999	3.03150e-06	0.999999
rad13	6.15023e-07	1.000000	6.15023e-07	1.000000
PhCHCCH2+H	3.42495e-07	1.000000	3.42495e-07	1.000000
rad9	1.99393e-08	1.000000	1.99393e-08	1.000000
rad3	1.59831e-08	1.000000	1.59831e-08	1.000000
rad4	8.11821e-09	1.000000	8.11821e-09	1.000000
rad30	2.10791e-09	1.000000	2.10791e-09	1.000000
Phenyl+Allene	1.51859e-09	1.000000	0.000000	1.000000
rad33	7.89954e-10	1.000000	7.89954e-10	1.000000
rad28	7.14400e-10	1.000000	7.14400e-10	1.000000
rad2	3.87547e-10	1.000000	3.87547e-10	1.000000
rad15	3.62963e-10	1.000000	3.62963e-10	1.000000
rad1	2.49081e-11	1.000000	2.49081e-11	1.000000
rad24	8.51185e-12	1.000000	8.51185e-12	1.000000
PhCCH+CH3	3.75661e-12	1.000000	3.75661e-12	1.000000
rad8	2.34261e-12	1.000000	2.34261e-12	1.000000
rad38	1.94062e-12	1.000000	1.94062e-12	1.000000
rad10	6.65371e-13	1.000000	6.65371e-13	1.000000
PAH9+H	3.29889e-13	1.000000	3.29889e-13	1.000000
rad14	1.99439e-13	1.000000	1.99439e-13	1.000000
rad35	1.82625e-13	1.000000	1.82625e-13	1.000000
PhCH2CCH+H	6.70315e-14	1.000000	6.70315e-14	1.000000
rad60syn	1.82236e-14	1.000000	1.82236e-14	1.000000
rad46	1.14589e-14	1.000000	1.14589e-14	1.000000
rad60anti	2.87701e-15	1.000000	2.87701e-15	1.000000
Ph+MeAc	8.10085e-16	1.000000	8.10085e-16	1.000000
PhCCCH3+H	5.51596e-16	1.000000	5.51596e-16	1.000000
rad27	4.51550e-16	1.000000	4.51550e-16	1.000000
PAH7+H	1.29452e-16	1.000000	1.29452e-16	1.000000
rad26	2.05736e-17	1.000000	2.05736e-17	1.000000
rad31	5.77402e-18	1.000000	5.77402e-18	1.000000
rad39	9.14093e-19	1.000000	9.14093e-19	1.000000
PAH3+H	3.96710e-21	1.000000	3.96710e-21	1.000000
rad59	1.92286e-21	1.000000	1.92286e-21	1.000000
rad50	1.43759e-23	1.000000	1.43759e-23	1.000000
rad5	1.45960e-24	1.000000	1.45960e-24	1.000000
rad12	2.75213e-25	1.000000	2.75213e-25	1.000000
rad37	1.72104e-27	1.000000	1.72104e-27	1.000000
rad19syn	9.69167e-29	1.000000	9.69167e-29	1.000000
rad52	3.34556e-31	1.000000	3.34556e-31	1.000000
rad54	5.39308e-32	1.000000	5.39308e-32	1.000000
rad62	1.60369e-34	1.000000	1.60369e-34	1.000000
rad43	1.31861e-34	1.000000	1.31861e-34	1.000000
rad51	1.16436e-35	1.000000	1.16436e-35	1.000000
rad70	4.54243e-37	1.000000	4.54243e-37	1.000000
PAH10+CH3	2.89146e-37	1.000000	2.89146e-37	1.000000
PhcycC3H3_A+H	2.90884e-38	1.000000	2.90884e-38	1.000000
rad55	1.38336e-38	1.000000	1.38336e-38	1.000000
rad65	1.21441e-39	1.000000	1.21441e-39	1.000000
rad58	1.30924e-40	1.000000	1.30924e-40	1.000000
rad34	4.71563e-43	1.000000	4.71563e-43	1.000000
rad47	1.76806e-43	1.000000	1.76806e-43	1.000000
PAH1+H	1.13228e-43	1.000000	1.13228e-43	1.000000
rad42	3.84139e-46	1.000000	3.84139e-46	1.000000
rad41	5.36337e-47	1.000000	5.36337e-47	1.000000

1000.00000 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14498e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.778593	0.778593	0.778593	0.778593
rad6	0.210965	0.989558	0.210965	0.989558
rad22	0.00531038	0.994868	0.00531038	0.994868
Indene+H	0.00355584	0.998424	0.00355584	0.998424
rad45	0.000605035	0.999029	0.000605035	0.999029
rad23	0.000559271	0.999588	0.000559271	0.999588
rad18	0.000154482	0.999743	0.000154482	0.999743
Benzene+2-propynyl	6.70630e-05	0.999810	6.70630e-05	0.999810
C2H2+PhCH2	6.44604e-05	0.999874	6.44604e-05	0.999874

rad36	3.75175e-05	0.999912	3.75175e-05	0.999912
rad20	3.49685e-05	0.999947	3.49685e-05	0.999947
rad7	2.68634e-05	0.999974	2.68634e-05	0.999974
rad21	2.28133e-05	0.999996	2.28133e-05	0.999996
rad25	3.31849e-06	1.000000	3.31849e-06	1.000000
rad13	6.79415e-07	1.000000	6.79415e-07	1.000000
PhCHCCH2+H	4.24544e-07	1.000000	4.24544e-07	1.000000
rad9	2.52947e-08	1.000000	2.52947e-08	1.000000
rad3	2.30692e-08	1.000000	2.30692e-08	1.000000
rad4	1.17265e-08	1.000000	1.17265e-08	1.000000
rad30	2.63845e-09	1.000000	2.63845e-09	1.000000
Phenyl+Allene	2.48366e-09	1.000000	0.000000	1.000000
rad28	1.08888e-09	1.000000	1.08888e-09	1.000000
rad33	8.65627e-10	1.000000	8.65627e-10	1.000000
rad2	6.96831e-10	1.000000	6.96831e-10	1.000000
rad15	4.61729e-10	1.000000	4.61729e-10	1.000000
rad1	4.49250e-11	1.000000	4.49250e-11	1.000000
rad24	8.94203e-12	1.000000	8.94203e-12	1.000000
PhCCH+CH3	7.80109e-12	1.000000	7.80109e-12	1.000000
rad8	3.57567e-12	1.000000	3.57567e-12	1.000000
rad38	2.69319e-12	1.000000	2.69319e-12	1.000000
rad10	1.48546e-12	1.000000	1.48546e-12	1.000000
PAH9+H	5.24498e-13	1.000000	5.24498e-13	1.000000
rad14	3.75458e-13	1.000000	3.75458e-13	1.000000
rad35	2.87700e-13	1.000000	2.87700e-13	1.000000
PhCH2CCH+H	2.70111e-13	1.000000	2.70111e-13	1.000000
rad60syn	2.87807e-14	1.000000	2.87807e-14	1.000000
rad46	1.68477e-14	1.000000	1.68477e-14	1.000000
rad60anti	5.16806e-15	1.000000	5.16806e-15	1.000000
Ph+MeAc	2.22989e-15	1.000000	2.22989e-15	1.000000
PhCCCH3+H	1.46258e-15	1.000000	1.46258e-15	1.000000
rad27	9.26587e-16	1.000000	9.26587e-16	1.000000
PAH7+H	5.43465e-16	1.000000	5.43465e-16	1.000000
rad26	6.22607e-17	1.000000	6.22607e-17	1.000000
rad31	8.60736e-18	1.000000	8.60736e-18	1.000000
rad39	2.33277e-18	1.000000	2.33277e-18	1.000000
PAH3+H	2.63994e-20	1.000000	2.63994e-20	1.000000
rad59	1.24571e-20	1.000000	1.24571e-20	1.000000
rad50	7.76830e-23	1.000000	7.76830e-23	1.000000
rad5	9.90184e-24	1.000000	9.90185e-24	1.000000
rad12	1.38656e-24	1.000000	1.38656e-24	1.000000
rad37	1.32863e-26	1.000000	1.32863e-26	1.000000
rad19syn	1.97285e-27	1.000000	1.97285e-27	1.000000
rad52	4.28643e-30	1.000000	4.28643e-30	1.000000
rad54	1.51734e-30	1.000000	1.51734e-30	1.000000
rad62	4.45019e-33	1.000000	4.45019e-33	1.000000
rad43	3.34792e-33	1.000000	3.34792e-33	1.000000
rad51	2.14375e-34	1.000000	2.14375e-34	1.000000
rad70	1.08639e-35	1.000000	1.08639e-35	1.000000
PAH10+CH3	8.47149e-36	1.000000	8.47149e-36	1.000000
PhcycC3H3_A+H	9.71626e-37	1.000000	9.71626e-37	1.000000
rad55	4.58394e-37	1.000000	4.58394e-37	1.000000
rad65	2.53904e-38	1.000000	2.53904e-38	1.000000
rad58	3.17576e-39	1.000000	3.17576e-39	1.000000
rad34	1.38828e-41	1.000000	1.38828e-41	1.000000
rad47	4.41926e-42	1.000000	4.41926e-42	1.000000
PAH1+H	4.41018e-42	1.000000	4.41018e-42	1.000000
rad42	1.79410e-44	1.000000	1.79410e-44	1.000000
rad41	3.23527e-45	1.000000	3.23527e-45	1.000000

1000.00000 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06527e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44008e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.748778	0.748778	0.748778	0.748778
rad6	0.239478	0.988256	0.239478	0.988256
rad22	0.00572752	0.993984	0.00572752	0.993984
Indene+H	0.00415232	0.998136	0.00415232	0.998136
rad23	0.000686841	0.998823	0.000686841	0.998823
rad45	0.000648404	0.999472	0.000648404	0.999472
Benzene+2-propynyl	0.000183695	0.999655	0.000183695	0.999655
rad18	0.000139405	0.999795	0.000139405	0.999795
C2H2+PhCH2	7.57617e-05	0.999870	7.57617e-05	0.999870

rad36	4.01961e-05	0.999911	4.01961e-05	0.999911
rad7	3.47469e-05	0.999945	3.47469e-05	0.999945
rad20	3.03946e-05	0.999976	3.03946e-05	0.999976
rad21	1.97762e-05	0.999995	1.97762e-05	0.999995
rad25	3.57864e-06	0.999999	3.57864e-06	0.999999
rad13	7.45223e-07	1.000000	7.45223e-07	1.000000
PhCHCCH2+H	5.23486e-07	1.000000	5.23486e-07	1.000000
rad3	3.24920e-08	1.000000	3.24920e-08	1.000000
rad9	3.19421e-08	1.000000	3.19421e-08	1.000000
rad4	1.65311e-08	1.000000	1.65311e-08	1.000000
Phenyl+Allene	3.99057e-09	1.000000	0.000000	1.000000
rad30	3.24930e-09	1.000000	3.24930e-09	1.000000
rad28	1.61816e-09	1.000000	1.61816e-09	1.000000
rad2	1.20561e-09	1.000000	1.20561e-09	1.000000
rad33	9.43238e-10	1.000000	9.43238e-10	1.000000
rad15	5.78177e-10	1.000000	5.78177e-10	1.000000
rad1	7.79947e-11	1.000000	7.79947e-11	1.000000
PhCCH+CH3	1.54838e-11	1.000000	1.54838e-11	1.000000
rad24	9.33009e-12	1.000000	9.33009e-12	1.000000
rad8	5.40326e-12	1.000000	5.40326e-12	1.000000
rad38	3.67503e-12	1.000000	3.67503e-12	1.000000
rad10	3.14612e-12	1.000000	3.14612e-12	1.000000
PhCH2CCH+H	9.85953e-13	1.000000	9.85953e-13	1.000000
PAH9+H	8.13563e-13	1.000000	8.13563e-13	1.000000
rad14	6.73346e-13	1.000000	6.73346e-13	1.000000
rad35	4.41756e-13	1.000000	4.41756e-13	1.000000
rad60syn	4.47458e-14	1.000000	4.47458e-14	1.000000
rad46	2.44604e-14	1.000000	2.44604e-14	1.000000
rad60anti	8.95970e-15	1.000000	8.95970e-15	1.000000
Ph+MeAc	5.73241e-15	1.000000	5.73241e-15	1.000000
PhCCCH3+H	3.66637e-15	1.000000	3.66637e-15	1.000000
PAH7+H	2.13012e-15	1.000000	2.13012e-15	1.000000
rad27	1.78812e-15	1.000000	1.78812e-15	1.000000
rad26	1.76746e-16	1.000000	1.76746e-16	1.000000
rad31	1.25616e-17	1.000000	1.25616e-17	1.000000
rad39	5.63322e-18	1.000000	5.63322e-18	1.000000
PAH3+H	1.69097e-19	1.000000	1.69097e-19	1.000000
rad59	7.68550e-20	1.000000	7.68550e-20	1.000000
rad50	4.09927e-22	1.000000	4.09927e-22	1.000000
rad5	5.98882e-23	1.000000	5.98882e-23	1.000000
rad12	6.61015e-24	1.000000	6.61015e-24	1.000000
rad37	9.32885e-26	1.000000	9.32885e-26	1.000000
rad19syn	4.64507e-26	1.000000	4.64507e-26	1.000000
rad52	7.09003e-29	1.000000	7.09003e-29	1.000000
rad54	6.31543e-29	1.000000	6.31543e-29	1.000000
rad62	1.71966e-31	1.000000	1.71966e-31	1.000000
rad43	9.86826e-32	1.000000	9.86826e-32	1.000000
rad51	6.35325e-33	1.000000	6.35325e-33	1.000000
rad70	7.48078e-34	1.000000	7.48078e-34	1.000000
PAH10+CH3	2.85909e-34	1.000000	2.85909e-34	1.000000
PhcycC3H3_A+H	7.28224e-35	1.000000	7.28224e-35	1.000000
rad55	3.46133e-35	1.000000	3.46133e-35	1.000000
rad65	8.90046e-37	1.000000	8.90046e-37	1.000000
rad58	2.20441e-37	1.000000	2.20441e-37	1.000000
rad34	1.08577e-39	1.000000	1.08577e-39	1.000000
PAH1+H	3.73817e-40	1.000000	3.73817e-40	1.000000
rad47	1.86521e-40	1.000000	1.86521e-40	1.000000
rad42	1.60801e-42	1.000000	1.60801e-42	1.000000
rad41	2.97463e-43	1.000000	2.97463e-43	1.000000

1000.00000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.717877	0.717877	0.717877	0.717877
rad6	0.268939	0.986816	0.268939	0.986816
rad22	0.00610877	0.992925	0.00610877	0.992925
Indene+H	0.00478865	0.997714	0.00478865	0.997714
rad23	0.000828229	0.998542	0.000828229	0.998542
rad45	0.000688106	0.999230	0.000688106	0.999230
Benzene+2-propynyl	0.000420064	0.999650	0.000420064	0.999650
rad18	0.000125788	0.999776	0.000125788	0.999776
C2H2+PhCH2	8.83051e-05	0.999864	8.83051e-05	0.999864

rad7	4.39243e-05	0.999908	4.39243e-05	0.999908
rad36	4.26542e-05	0.999951	4.26542e-05	0.999951
rad20	2.65871e-05	0.999977	2.65871e-05	0.999977
rad21	1.72586e-05	0.999995	1.72586e-05	0.999995
rad25	3.80882e-06	0.999998	3.80882e-06	0.999998
rad13	8.11708e-07	0.999999	8.11708e-07	0.999999
PhCHCCH2+H	6.43656e-07	1.000000	6.43656e-07	1.000000
rad3	4.47385e-08	1.000000	4.47385e-08	1.000000
rad9	4.02428e-08	1.000000	4.02428e-08	1.000000
rad4	2.27843e-08	1.000000	2.27843e-08	1.000000
Phenyl+Allene	6.31443e-09	1.000000	0.000000	1.000000
rad30	3.95585e-09	1.000000	3.95585e-09	1.000000
rad28	2.34914e-09	1.000000	2.34914e-09	1.000000
rad2	2.01610e-09	1.000000	2.01610e-09	1.000000
rad33	1.02182e-09	1.000000	1.02182e-09	1.000000
rad15	7.16120e-10	1.000000	7.16120e-10	1.000000
rad1	1.30926e-10	1.000000	1.30926e-10	1.000000
PhCCH+CH3	2.95896e-11	1.000000	2.95896e-11	1.000000
rad24	9.68131e-12	1.000000	9.68131e-12	1.000000
rad8	8.10879e-12	1.000000	8.10879e-12	1.000000
rad10	6.37631e-12	1.000000	6.37631e-12	1.000000
rad38	4.95913e-12	1.000000	4.95913e-12	1.000000
PhCH2CCH+H	3.18945e-12	1.000000	3.18945e-12	1.000000
PAH9+H	1.24133e-12	1.000000	1.24133e-12	1.000000
rad14	1.15597e-12	1.000000	1.15597e-12	1.000000
rad35	6.66565e-13	1.000000	6.66565e-13	1.000000
rad60syn	6.87605e-14	1.000000	6.87605e-14	1.000000
rad46	3.52691e-14	1.000000	3.52691e-14	1.000000
rad60anti	1.51006e-14	1.000000	1.51006e-14	1.000000
Ph+MeAc	1.39875e-14	1.000000	1.39875e-14	1.000000
PhCCCH3+H	8.80503e-15	1.000000	8.80503e-15	1.000000
PAH7+H	7.46347e-15	1.000000	7.46347e-15	1.000000
rad27	3.27537e-15	1.000000	3.27537e-15	1.000000
rad26	4.78390e-16	1.000000	4.78390e-16	1.000000
rad31	1.79810e-17	1.000000	1.79810e-17	1.000000
rad39	1.30562e-17	1.000000	1.30562e-17	1.000000
PAH3+H	9.28246e-19	1.000000	9.28246e-19	1.000000
rad59	4.04607e-19	1.000000	4.04607e-19	1.000000
rad50	1.96691e-21	1.000000	1.96691e-21	1.000000
rad5	3.23980e-22	1.000000	3.23980e-22	1.000000
rad12	3.05047e-23	1.000000	3.05047e-23	1.000000
rad19syn	9.03615e-25	1.000000	9.03615e-25	1.000000
rad37	6.06127e-25	1.000000	6.06127e-25	1.000000
rad54	2.16559e-27	1.000000	2.16559e-27	1.000000
rad52	1.13889e-27	1.000000	1.13889e-27	1.000000
rad62	6.43655e-30	1.000000	6.43655e-30	1.000000
rad43	2.72169e-30	1.000000	2.72169e-30	1.000000
rad51	2.32854e-31	1.000000	2.32854e-31	1.000000
rad70	1.05883e-31	1.000000	1.05883e-31	1.000000
PAH10+CH3	9.31059e-33	1.000000	9.31059e-33	1.000000
PhcycC3H3_A+H	8.57109e-33	1.000000	8.57109e-33	1.000000
rad55	4.48603e-33	1.000000	4.48603e-33	1.000000
rad65	4.44099e-35	1.000000	4.44099e-35	1.000000
rad58	3.13383e-35	1.000000	3.13383e-35	1.000000
rad34	1.56989e-37	1.000000	1.56989e-37	1.000000
PAH1+H	4.87057e-38	1.000000	4.87057e-38	1.000000
rad47	1.13389e-38	1.000000	1.13389e-38	1.000000
rad42	2.07861e-40	1.000000	2.07861e-40	1.000000
rad41	3.35565e-41	1.000000	3.35565e-41	1.000000

1000.00000 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.33719e-19 (1.00)	1.33719e-19 (1.00)
Formation of rad11	1.26517e-19 (0.946)	1.26517e-19 (0.946)
Formation of rad6	7.08974e-21 (0.0530)	7.08974e-21 (0.0530)
H-abstraction	1.11864e-22 (0.000837)	1.11864e-22 (0.000837)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.686112	0.686112	0.686112	0.686112
rad6	0.299062	0.985173	0.299062	0.985173
rad22	0.00645336	0.991627	0.00645336	0.991627
Indene+H	0.00546891	0.997095	0.00546891	0.997095
rad23	0.000984190	0.998080	0.000984190	0.998080
Benzene+2-propynyl	0.000836559	0.998916	0.000836559	0.998916
rad45	0.000724453	0.999641	0.000724453	0.999641
rad18	0.000113498	0.999754	0.000113498	0.999754
C2H2+PhCH2	0.000102312	0.999856	0.000102312	0.999856

rad7	5.43809e-05	0.999911	5.43809e-05	0.999911
rad36	4.49131e-05	0.999956	4.49131e-05	0.999956
rad20	2.33703e-05	0.999979	2.33703e-05	0.999979
rad21	1.51396e-05	0.999994	1.51396e-05	0.999994
rad25	4.00596e-06	0.999998	4.00596e-06	0.999998
rad13	8.78155e-07	0.999999	8.78155e-07	0.999999
PhCHCCH2+H	7.90481e-07	1.000000	7.90481e-07	1.000000
rad3	6.03531e-08	1.000000	6.03531e-08	1.000000
rad9	5.06572e-08	1.000000	5.06572e-08	1.000000
rad4	3.07705e-08	1.000000	3.07705e-08	1.000000
Phenyl+Allene	9.85709e-09	1.000000	0.000000	1.000000
rad30	4.77703e-09	1.000000	4.77703e-09	1.000000
rad28	3.34075e-09	1.000000	3.34075e-09	1.000000
rad2	3.27524e-09	1.000000	3.27524e-09	1.000000
rad33	1.10050e-09	1.000000	1.10050e-09	1.000000
rad15	8.80323e-10	1.000000	8.80323e-10	1.000000
rad1	2.13589e-10	1.000000	2.13589e-10	1.000000
PhCCH+CH3	5.48608e-11	1.000000	5.48608e-11	1.000000
rad10	1.24735e-11	1.000000	1.24735e-11	1.000000
rad8	1.21081e-11	1.000000	1.21081e-11	1.000000
rad24	1.00003e-11	1.000000	1.00003e-11	1.000000
PhCH2CCH+H	9.20610e-12	1.000000	9.20610e-12	1.000000
rad38	6.64486e-12	1.000000	6.64486e-12	1.000000
rad14	1.90978e-12	1.000000	1.90978e-12	1.000000
PAH9+H	1.87413e-12	1.000000	1.87413e-12	1.000000
rad35	9.94207e-13	1.000000	9.94207e-13	1.000000
rad60syn	1.04685e-13	1.000000	1.04685e-13	1.000000
rad46	5.07045e-14	1.000000	5.07045e-14	1.000000
Ph+MeAc	3.28089e-14	1.000000	3.28089e-14	1.000000
rad60anti	2.48750e-14	1.000000	2.48750e-14	1.000000
PAH7+H	2.32407e-14	1.000000	2.32407e-14	1.000000
PhCCCH3+H	2.04998e-14	1.000000	2.04998e-14	1.000000
rad27	5.74538e-15	1.000000	5.74538e-15	1.000000
rad26	1.25183e-15	1.000000	1.25183e-15	1.000000
rad39	2.93979e-17	1.000000	2.93979e-17	1.000000
rad31	2.53040e-17	1.000000	2.53040e-17	1.000000
PAH3+H	4.27338e-18	1.000000	4.27338e-18	1.000000
rad59	1.78494e-18	1.000000	1.78494e-18	1.000000
rad50	8.38240e-21	1.000000	8.38240e-21	1.000000
rad5	1.58372e-21	1.000000	1.58372e-21	1.000000
rad12	1.38083e-22	1.000000	1.38083e-22	1.000000
rad19syn	1.30453e-23	1.000000	1.30453e-23	1.000000
rad37	3.69538e-24	1.000000	3.69538e-24	1.000000
rad54	5.07396e-26	1.000000	5.07396e-26	1.000000
rad52	1.49540e-26	1.000000	1.49540e-26	1.000000
rad62	1.83296e-28	1.000000	1.83296e-28	1.000000
rad43	6.06246e-29	1.000000	6.06246e-29	1.000000
rad70	2.95928e-29	1.000000	2.95928e-29	1.000000
rad51	6.83498e-30	1.000000	6.83498e-30	1.000000
PhcycC3H3_A+H	6.50721e-31	1.000000	6.50721e-31	1.000000
rad55	3.22828e-31	1.000000	3.22828e-31	1.000000
PAH10+CH3	2.55413e-31	1.000000	2.55413e-31	1.000000
rad58	9.24850e-33	1.000000	9.24850e-33	1.000000
rad65	2.25838e-33	1.000000	2.25838e-33	1.000000
rad34	3.05654e-35	1.000000	3.05654e-35	1.000000
PAH1+H	6.20349e-36	1.000000	6.20349e-36	1.000000
rad47	8.07644e-37	1.000000	8.07644e-37	1.000000
rad42	2.70177e-38	1.000000	2.70177e-38	1.000000
rad41	3.55369e-39	1.000000	3.55369e-39	1.000000

1000.00000 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.59582e-19 (1.00)	3.59582e-19 (1.00)
Formation of rad11	3.35703e-19 (0.934)	3.35703e-19 (0.934)
Formation of rad6	2.33415e-20 (0.0649)	2.33415e-20 (0.0649)
H-abstraction	5.37685e-22 (0.00150)	5.37685e-22 (0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.653690	0.653690	0.653690	0.653690
rad6	0.329570	0.983261	0.329570	0.983261
rad22	0.00675995	0.990020	0.00675995	0.990020
Indene+H	0.00619735	0.996218	0.00619735	0.996218
Benzene+2-propynyl	0.00149531	0.997713	0.00149531	0.997713
rad23	0.00115555	0.998869	0.00115555	0.998869
rad45	0.000757712	0.999626	0.000757712	0.999626
C2H2+PhCH2	0.000118037	0.999744	0.000118037	0.999744
rad18	0.000102397	0.999847	0.000102397	0.999847

rad7	6.60733e-05	0.999913	6.60733e-05	0.999913
rad36	4.69912e-05	0.999960	4.69912e-05	0.999960
rad20	2.06191e-05	0.999981	2.06191e-05	0.999981
rad21	1.33333e-05	0.999994	1.33333e-05	0.999994
rad25	4.16724e-06	0.999998	4.16724e-06	0.999998
PhCHCCH2+H	9.70717e-07	0.999999	9.70717e-07	0.999999
rad13	9.43931e-07	1.000000	9.43931e-07	1.000000
rad3	7.99558e-08	1.000000	7.99558e-08	1.000000
rad9	6.37678e-08	1.000000	6.37678e-08	1.000000
rad4	4.08149e-08	1.000000	4.08149e-08	1.000000
Phenyl+Allene	1.51989e-08	1.000000	0.000000	1.000000
rad30	5.73569e-09	1.000000	5.73569e-09	1.000000
rad2	5.19450e-09	1.000000	5.19450e-09	1.000000
rad28	4.66840e-09	1.000000	4.66840e-09	1.000000
rad33	1.17848e-09	1.000000	1.17848e-09	1.000000
rad15	1.07665e-09	1.000000	1.07665e-09	1.000000
rad1	3.40309e-10	1.000000	3.40309e-10	1.000000
PhCCH+CH3	9.93606e-11	1.000000	9.93606e-11	1.000000
PhCH2CCH+H	2.40589e-11	1.000000	2.40589e-11	1.000000
rad10	2.37315e-11	1.000000	2.37315e-11	1.000000
rad8	1.80065e-11	1.000000	1.80065e-11	1.000000
rad24	1.02911e-11	1.000000	1.02911e-11	1.000000
rad38	8.86737e-12	1.000000	8.86737e-12	1.000000
rad14	3.05110e-12	1.000000	3.05110e-12	1.000000
PAH9+H	2.81160e-12	1.000000	2.81160e-12	1.000000
rad35	1.47202e-12	1.000000	1.47202e-12	1.000000
rad60syn	1.58115e-13	1.000000	1.58115e-13	1.000000
Ph+MeAc	7.46654e-14	1.000000	7.46654e-14	1.000000
rad46	7.28741e-14	1.000000	7.28741e-14	1.000000
PAH7+H	6.49579e-14	1.000000	6.49579e-14	1.000000
PhCCCH3+H	4.67062e-14	1.000000	4.67062e-14	1.000000
rad60anti	4.02047e-14	1.000000	4.02047e-14	1.000000
rad27	9.72575e-15	1.000000	9.72575e-15	1.000000
rad26	3.20043e-15	1.000000	3.20043e-15	1.000000
rad39	6.49145e-17	1.000000	6.49145e-17	1.000000
rad31	3.50966e-17	1.000000	3.50966e-17	1.000000
PAH3+H	1.67282e-17	1.000000	1.67282e-17	1.000000
rad59	6.70112e-18	1.000000	6.70112e-18	1.000000
rad50	3.18000e-20	1.000000	3.18000e-20	1.000000
rad5	7.07888e-21	1.000000	7.07888e-21	1.000000
rad12	6.15977e-22	1.000000	6.15977e-22	1.000000
rad19syn	1.40562e-22	1.000000	1.40562e-22	1.000000
rad37	2.13244e-23	1.000000	2.13244e-23	1.000000
rad54	8.20556e-25	1.000000	8.20556e-25	1.000000
rad52	1.53452e-25	1.000000	1.53452e-25	1.000000
rad62	3.75162e-27	1.000000	3.75162e-27	1.000000
rad70	1.76789e-27	1.000000	1.76789e-27	1.000000
rad43	1.04058e-27	1.000000	1.04058e-27	1.000000
rad51	1.44596e-28	1.000000	1.44596e-28	1.000000
PhcycC3H3_A+H	2.93577e-29	1.000000	2.93577e-29	1.000000
rad55	1.35396e-29	1.000000	1.35396e-29	1.000000
PAH10+CH3	5.60717e-30	1.000000	5.60717e-30	1.000000
rad58	8.57499e-31	1.000000	8.57499e-31	1.000000
rad65	7.58383e-32	1.000000	7.58383e-32	1.000000
rad34	8.00060e-33	1.000000	8.00060e-33	1.000000
PAH1+H	7.44584e-34	1.000000	7.44584e-34	1.000000
rad47	5.67705e-35	1.000000	5.67705e-35	1.000000
rad42	4.56402e-36	1.000000	4.56402e-36	1.000000
rad41	3.75984e-37	1.000000	3.75984e-37	1.000000

1000.00000 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.51464e-19 (1.00)	8.51464e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83711e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56651e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.620808	0.620808	0.620808	0.620808
rad6	0.360211	0.981019	0.360211	0.981019
rad22	0.00702675	0.988046	0.00702675	0.988046
Indene+H	0.00697811	0.995024	0.00697811	0.995024
Benzene+2-propynyl	0.00245244	0.997477	0.00245244	0.997477
rad23	0.00134312	0.998820	0.00134312	0.998820
rad45	0.000788106	0.999608	0.000788106	0.999608
C2H2+PhCH2	0.000135767	0.999743	0.000135767	0.999743
rad18	9.23542e-05	0.999836	9.23542e-05	0.999836

rad7	7.89363e-05	0.999915	7.89363e-05	0.999915
rad36	4.89048e-05	0.999964	4.89048e-05	0.999964
rad20	1.82419e-05	0.999982	1.82419e-05	0.999982
rad21	1.17772e-05	0.999994	1.17772e-05	0.999994
rad25	4.29033e-06	0.999998	4.29033e-06	0.999998
PhCHCCH2+H	1.19271e-06	0.999999	1.19271e-06	0.999999
rad13	1.00851e-06	1.00000	1.00851e-06	1.00000
rad3	1.04261e-07	1.00000	1.04261e-07	1.00000
rad9	8.03060e-08	1.00000	8.03060e-08	1.00000
rad4	5.32941e-08	1.00000	5.32941e-08	1.00000
Phenyl+Allene	2.31675e-08	1.00000	0.00000	1.00000
rad2	8.07841e-09	1.00000	8.07841e-09	1.00000
rad30	6.85899e-09	1.00000	6.85899e-09	1.00000
rad28	6.42998e-09	1.00000	6.42998e-09	1.00000
rad15	1.31222e-09	1.00000	1.31222e-09	1.00000
rad33	1.25515e-09	1.00000	1.25515e-09	1.00000
rad1	5.31909e-10	1.00000	5.31909e-10	1.00000
PhCCH+CH3	1.76765e-10	1.00000	1.76765e-10	1.00000
PhCH2CCH+H	5.77757e-11	1.00000	5.77757e-11	1.00000
rad10	4.41822e-11	1.00000	4.41822e-11	1.00000
rad8	2.66777e-11	1.00000	2.66777e-11	1.00000
rad38	1.18100e-11	1.00000	1.18100e-11	1.00000
rad24	1.05568e-11	1.00000	1.05568e-11	1.00000
rad14	4.73291e-12	1.00000	4.73291e-12	1.00000
PAH9+H	4.20336e-12	1.00000	4.20336e-12	1.00000
rad35	2.16979e-12	1.00000	2.16979e-12	1.00000
rad60syn	2.37072e-13	1.00000	2.37072e-13	1.00000
Ph+MeAc	1.65916e-13	1.00000	1.65916e-13	1.00000
PAH7+H	1.65250e-13	1.00000	1.65250e-13	1.00000
rad46	1.04878e-13	1.00000	1.04878e-13	1.00000
PhCCCH3+H	1.04834e-13	1.00000	1.04834e-13	1.00000
rad60anti	6.39288e-14	1.00000	6.39288e-14	1.00000
rad27	1.59903e-14	1.00000	1.59903e-14	1.00000
rad26	8.04981e-15	1.00000	8.04981e-15	1.00000
rad39	1.41531e-16	1.00000	1.41531e-16	1.00000
PAH3+H	5.69296e-17	1.00000	5.69296e-17	1.00000
rad31	4.80985e-17	1.00000	4.80985e-17	1.00000
rad59	2.19061e-17	1.00000	2.19061e-17	1.00000
rad50	1.08648e-19	1.00000	1.08648e-19	1.00000
rad5	2.92446e-20	1.00000	2.92446e-20	1.00000
rad12	2.70359e-21	1.00000	2.70359e-21	1.00000
rad19syn	1.17132e-21	1.00000	1.17132e-21	1.00000
rad37	1.16897e-22	1.00000	1.16897e-22	1.00000
rad54	9.62713e-24	1.00000	9.62713e-24	1.00000
rad52	1.24410e-24	1.00000	1.24410e-24	1.00000
rad62	5.60524e-26	1.00000	5.60524e-26	1.00000
rad70	4.96343e-26	1.00000	4.96343e-26	1.00000
rad43	1.38301e-26	1.00000	1.38301e-26	1.00000
rad51	2.22666e-27	1.00000	2.22666e-27	1.00000
PhcycC3H3_A+H	8.01343e-28	1.00000	8.01343e-28	1.00000
rad55	3.46986e-28	1.00000	3.46986e-28	1.00000
PAH10+CH3	9.77190e-29	1.00000	9.77190e-29	1.00000
rad58	2.92759e-29	1.00000	2.92759e-29	1.00000
rad34	3.16264e-30	1.00000	3.16264e-30	1.00000
rad65	1.73804e-30	1.00000	1.73804e-30	1.00000
PAH1+H	3.69483e-32	1.00000	3.69483e-32	1.00000
rad47	2.02694e-33	1.00000	2.02694e-33	1.00000
rad42	5.06405e-34	1.00000	5.06405e-34	1.00000
rad41	2.76508e-35	1.00000	2.76508e-35	1.00000

1000.00000 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.81800e-18 (1.00)	1.81800e-18 (1.00)
Formation of rad11	1.64862e-18 (0.907)	1.64862e-18 (0.907)
Formation of rad6	1.62558e-19 (0.0894)	1.62558e-19 (0.0894)
H-abstraction	6.82130e-21 (0.00375)	6.82130e-21 (0.00375)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.587644	0.587644	0.587644	0.587644
rad6	0.390758	0.978402	0.390758	0.978402
Indene+H	0.00781504	0.986217	0.00781504	0.986217
rad22	0.00725157	0.993469	0.00725157	0.993469
Benzene+2-propynyl	0.00375209	0.997221	0.00375209	0.997221
rad23	0.00154764	0.998768	0.00154764	0.998768
rad45	0.000815826	0.999584	0.000815826	0.999584
C2H2+PhCH2	0.000155824	0.999740	0.000155824	0.999740
rad7	9.28863e-05	0.999833	9.28863e-05	0.999833

rad18	8.32508e-05	0.999916	8.32508e-05	0.999916
rad36	5.06676e-05	0.999967	5.06676e-05	0.999967
rad20	1.61699e-05	0.999983	1.61699e-05	0.999983
rad21	1.04247e-05	0.999994	1.04247e-05	0.999994
rad25	4.37356e-06	0.999998	4.37356e-06	0.999998
PhCHCCH2+H	1.46666e-06	0.999999	1.46666e-06	0.999999
rad13	1.07145e-06	1.00000	1.07145e-06	1.00000
rad3	1.34091e-07	1.00000	1.34091e-07	1.00000
rad9	1.01182e-07	1.00000	1.01182e-07	1.00000
rad4	6.86448e-08	1.00000	6.86448e-08	1.00000
Phenyl+Allene	3.49271e-08	1.00000	0.00000	1.00000
rad2	1.23648e-08	1.00000	1.23648e-08	1.00000
rad28	8.75368e-09	1.00000	8.75368e-09	1.00000
rad30	8.17887e-09	1.00000	8.17887e-09	1.00000
rad15	1.59564e-09	1.00000	1.59564e-09	1.00000
rad33	1.33001e-09	1.00000	1.33001e-09	1.00000
rad1	8.18617e-10	1.00000	8.18617e-10	1.00000
PhCCH+CH3	3.10170e-10	1.00000	3.10170e-10	1.00000
PhCH2CCH+H	1.29142e-10	1.00000	1.29142e-10	1.00000
rad10	8.08584e-11	1.00000	8.08584e-11	1.00000
rad8	3.93688e-11	1.00000	3.93688e-11	1.00000
rad38	1.57207e-11	1.00000	1.57207e-11	1.00000
rad24	1.08003e-11	1.00000	1.08003e-11	1.00000
rad14	7.15148e-12	1.00000	7.15148e-12	1.00000
PAH9+H	6.27346e-12	1.00000	6.27346e-12	1.00000
rad35	3.19009e-12	1.00000	3.19009e-12	1.00000
PAH7+H	3.87807e-13	1.00000	3.87807e-13	1.00000
Ph+MeAc	3.61466e-13	1.00000	3.61466e-13	1.00000
rad60syn	3.52947e-13	1.00000	3.52947e-13	1.00000
PhCCCH3+H	2.32762e-13	1.00000	2.32762e-13	1.00000
rad46	1.51264e-13	1.00000	1.51264e-13	1.00000
rad60anti	1.00186e-13	1.00000	1.00186e-13	1.00000
rad27	2.56647e-14	1.00000	2.56647e-14	1.00000
rad26	1.99920e-14	1.00000	1.99920e-14	1.00000
rad39	3.06059e-16	1.00000	3.06059e-16	1.00000
PAH3+H	1.72122e-16	1.00000	1.72122e-16	1.00000
rad31	6.52814e-17	1.00000	6.52814e-17	1.00000
rad59	6.37416e-17	1.00000	6.37416e-17	1.00000
rad50	3.38863e-19	1.00000	3.38863e-19	1.00000
rad5	1.12654e-19	1.00000	1.12654e-19	1.00000
rad12	1.16144e-20	1.00000	1.16144e-20	1.00000
rad19syn	7.84513e-21	1.00000	7.84514e-21	1.00000
rad37	6.08825e-22	1.00000	6.08825e-22	1.00000
rad54	8.62743e-23	1.00000	8.62743e-23	1.00000
rad52	8.18881e-24	1.00000	8.18881e-24	1.00000
rad70	9.03277e-25	1.00000	9.03277e-25	1.00000
rad62	6.34752e-25	1.00000	6.34752e-25	1.00000
rad43	1.45903e-25	1.00000	1.45903e-25	1.00000
rad51	2.58475e-26	1.00000	2.58475e-26	1.00000
PhcycC3H3_A+H	1.50314e-26	1.00000	1.50314e-26	1.00000
rad55	6.11287e-27	1.00000	6.11287e-27	1.00000
PAH10+CH3	1.37507e-27	1.00000	1.37507e-27	1.00000
rad58	6.07485e-28	1.00000	6.07485e-28	1.00000
rad34	1.59754e-28	1.00000	1.59754e-28	1.00000
rad65	2.86771e-29	1.00000	2.86771e-29	1.00000
PAH1+H	1.12791e-30	1.00000	1.12791e-30	1.00000
rad47	4.21471e-32	1.00000	4.21471e-32	1.00000
rad42	2.39949e-32	1.00000	2.39949e-32	1.00000
rad41	1.22687e-33	1.00000	1.22687e-33	1.00000

1000.00000 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.56414e-18 (1.00)	3.56414e-18 (1.00)
Formation of rad11	3.18264e-18 (0.893)	3.18264e-18 (0.893)
Formation of rad6	3.62173e-19 (0.102)	3.62173e-19 (0.102)
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.554368	0.554368	0.554368	0.554368
rad6	0.421009	0.975378	0.421009	0.975378
Indene+H	0.00871133	0.984089	0.00871133	0.984089
rad22	0.00743196	0.991521	0.00743196	0.991521
Benzene+2-propynyl	0.00542285	0.996944	0.00542285	0.996944
rad23	0.00176967	0.998714	0.00176967	0.998714
rad45	0.000841040	0.999555	0.000841040	0.999555
C2H2+PhCH2	0.000178562	0.999733	0.000178562	0.999733
rad7	0.000107823	0.999841	0.000107823	0.999841

rad18	7.49830e-05	0.999916	7.49830e-05	0.999916
rad36	5.22924e-05	0.999968	5.22924e-05	0.999968
rad20	1.43512e-05	0.999983	1.43512e-05	0.999983
rad21	9.24038e-06	0.999992	9.24038e-06	0.999992
rad25	4.41609e-06	0.999996	4.41609e-06	0.999996
PhCHCCH2+H	1.80498e-06	0.999998	1.80498e-06	0.999998
rad13	1.13244e-06	0.999999	1.13244e-06	0.999999
rad3	1.70391e-07	0.999999	1.70391e-07	0.999999
rad9	1.27516e-07	1.000000	1.27516e-07	1.000000
rad4	8.73705e-08	1.000000	8.73705e-08	1.000000
Phenyl+Allene	5.20903e-08	1.000000	0.000000	1.000000
rad2	1.86799e-08	1.000000	1.86799e-08	1.000000
rad28	1.18080e-08	1.000000	1.18080e-08	1.000000
rad30	9.73242e-09	1.000000	9.73242e-09	1.000000
rad15	1.93712e-09	1.000000	1.93712e-09	1.000000
rad33	1.40267e-09	1.000000	1.40267e-09	1.000000
rad1	1.24414e-09	1.000000	1.24414e-09	1.000000
PhCCH+CH3	5.38286e-10	1.000000	5.38286e-10	1.000000
PhCH2CCH+H	2.71536e-10	1.000000	2.71536e-10	1.000000
rad10	1.45899e-10	1.000000	1.45899e-10	1.000000
rad8	5.78389e-11	1.000000	5.78389e-11	1.000000
rad38	2.09336e-11	1.000000	2.09336e-11	1.000000
rad24	1.10239e-11	1.000000	1.10239e-11	1.000000
rad14	1.05518e-11	1.000000	1.05518e-11	1.000000
PAH9+H	9.35582e-12	1.000000	9.35582e-12	1.000000
rad35	4.68289e-12	1.000000	4.68289e-12	1.000000
PAH7+H	8.49405e-13	1.000000	8.49405e-13	1.000000
Ph+MeAc	7.73883e-13	1.000000	7.73883e-13	1.000000
rad60syn	5.21714e-13	1.000000	5.21715e-13	1.000000
PhCCCH3+H	5.12175e-13	1.000000	5.12175e-13	1.000000
rad46	2.18684e-13	1.000000	2.18684e-13	1.000000
rad60anti	1.54924e-13	1.000000	1.54925e-13	1.000000
rad26	4.90682e-14	1.000000	4.90682e-14	1.000000
rad27	4.03719e-14	1.000000	4.03719e-14	1.000000
rad39	6.58201e-16	1.000000	6.58201e-16	1.000000
PAH3+H	4.71050e-16	1.000000	4.71050e-16	1.000000
rad59	1.68223e-16	1.000000	1.68223e-16	1.000000
rad31	8.79276e-17	1.000000	8.79276e-17	1.000000
rad50	9.77032e-19	1.000000	9.77032e-19	1.000000
rad5	4.07415e-19	1.000000	4.07415e-19	1.000000
rad12	4.85161e-20	1.000000	4.85161e-20	1.000000
rad19syn	4.37051e-20	1.000000	4.37051e-20	1.000000
rad37	3.00768e-21	1.000000	3.00768e-21	1.000000
rad54	6.17311e-22	1.000000	6.17311e-22	1.000000
rad52	4.50493e-23	1.000000	4.50493e-23	1.000000
rad70	1.16916e-23	1.000000	1.16916e-23	1.000000
rad62	5.65828e-24	1.000000	5.65828e-24	1.000000
rad43	1.25654e-24	1.000000	1.25654e-24	1.000000
rad51	2.34987e-25	1.000000	2.34987e-25	1.000000
PhcycC3H3_A+H	2.05566e-25	1.000000	2.05566e-25	1.000000
rad55	7.87357e-26	1.000000	7.87357e-26	1.000000
PAH10+CH3	1.59167e-26	1.000000	1.59167e-26	1.000000
rad58	8.77444e-27	1.000000	8.77444e-27	1.000000
rad34	3.55701e-27	1.000000	3.55701e-27	1.000000
rad65	3.56090e-28	1.000000	3.56090e-28	1.000000
PAH1+H	2.27791e-29	1.000000	2.27791e-29	1.000000
rad47	6.12617e-31	1.000000	6.12617e-31	1.000000
rad42	6.05523e-31	1.000000	6.05523e-31	1.000000
rad41	3.17709e-32	1.000000	3.17709e-32	1.000000

1000.00000 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.50681e-18 (1.00)	6.50681e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71915e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39013e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.521145	0.521145	0.521145	0.521145
rad6	0.450791	0.971936	0.450791	0.971936
Indene+H	0.00966931	0.981606	0.00966931	0.981606
rad22	0.00756543	0.989171	0.00756543	0.989171
Benzene+2-propynyl	0.00747672	0.996648	0.00747672	0.996648
rad23	0.00200953	0.998657	0.00200953	0.998657
rad45	0.000863902	0.999521	0.000863902	0.999521
C2H2+PhCH2	0.000204368	0.999726	0.000204368	0.999726
rad7	0.000123632	0.999849	0.000123632	0.999849

rad18	6.74612e-05	0.999917	6.74612e-05	0.999917
rad36	5.37910e-05	0.999971	5.37910e-05	0.999971
rad20	1.27450e-05	0.999983	1.27450e-05	0.999983
rad21	8.19687e-06	0.999991	8.19687e-06	0.999991
rad25	4.41806e-06	0.999996	4.41806e-06	0.999996
PhCHCCH2+H	2.22257e-06	0.999998	2.22257e-06	0.999998
rad13	1.19116e-06	0.999999	1.19116e-06	0.999999
rad3	2.14220e-07	0.999999	2.14220e-07	0.999999
rad9	1.60674e-07	1.000000	1.60674e-07	1.000000
rad4	1.10043e-07	1.000000	1.10043e-07	1.000000
Phenyl+Allene	7.68581e-08	1.000000	0.000000	1.000000
rad2	2.79130e-08	1.000000	2.79130e-08	1.000000
rad28	1.58148e-08	1.000000	1.58148e-08	1.000000
rad30	1.15623e-08	1.000000	1.15623e-08	1.000000
rad15	2.34875e-09	1.000000	2.34875e-09	1.000000
rad1	1.87122e-09	1.000000	1.87122e-09	1.000000
rad33	1.47282e-09	1.000000	1.47282e-09	1.000000
PhCCH+CH3	9.25360e-10	1.000000	9.25360e-10	1.000000
PhCH2CCH+H	5.41680e-10	1.000000	5.41680e-10	1.000000
rad10	2.59975e-10	1.000000	2.59975e-10	1.000000
rad8	8.45380e-11	1.000000	8.45380e-11	1.000000
rad38	2.78974e-11	1.000000	2.78974e-11	1.000000
rad14	1.52302e-11	1.000000	1.52302e-11	1.000000
PAH9+H	1.39448e-11	1.000000	1.39448e-11	1.000000
rad24	1.12297e-11	1.000000	1.12297e-11	1.000000
rad35	6.86597e-12	1.000000	6.86597e-12	1.000000
PAH7+H	1.75319e-12	1.000000	1.75319e-12	1.000000
Ph+MeAc	1.63006e-12	1.000000	1.63006e-12	1.000000
PhCCCH3+H	1.11708e-12	1.000000	1.11708e-12	1.000000
rad60syn	7.65510e-13	1.000000	7.65510e-13	1.000000
rad46	3.16809e-13	1.000000	3.16809e-13	1.000000
rad60anti	2.36572e-13	1.000000	2.36572e-13	1.000000
rad26	1.18885e-13	1.000000	1.18885e-13	1.000000
rad27	6.24246e-14	1.000000	6.24246e-14	1.000000
rad39	1.40943e-15	1.000000	1.40943e-15	1.000000
PAH3+H	1.18507e-15	1.000000	1.18507e-15	1.000000
rad59	4.08941e-16	1.000000	4.08941e-16	1.000000
rad31	1.17731e-16	1.000000	1.17731e-16	1.000000
rad50	2.63262e-18	1.000000	2.63262e-18	1.000000
rad5	1.39066e-18	1.000000	1.39066e-18	1.000000
rad19syn	2.08436e-19	1.000000	2.08436e-19	1.000000
rad12	1.95839e-19	1.000000	1.95839e-19	1.000000
rad37	1.40652e-20	1.000000	1.40652e-20	1.000000
rad54	3.65799e-21	1.000000	3.65799e-21	1.000000
rad52	2.12678e-22	1.000000	2.12678e-22	1.000000
rad70	1.14402e-22	1.000000	1.14402e-22	1.000000
rad62	4.10801e-23	1.000000	4.10801e-23	1.000000
rad43	9.07048e-24	1.000000	9.07048e-24	1.000000
PhcycC3H3_A+H	2.15872e-24	1.000000	2.15872e-24	1.000000
rad51	1.73362e-24	1.000000	1.73362e-24	1.000000
rad55	7.80980e-25	1.000000	7.80980e-25	1.000000
PAH10+CH3	1.54477e-25	1.000000	1.54477e-25	1.000000
rad58	9.49225e-26	1.000000	9.49225e-26	1.000000
rad34	5.35287e-26	1.000000	5.35287e-26	1.000000
rad65	3.46959e-27	1.000000	3.46959e-27	1.000000
PAH1+H	3.35850e-28	1.000000	3.35850e-28	1.000000
rad42	1.04805e-29	1.000000	1.04805e-29	1.000000
rad47	6.60971e-30	1.000000	6.60971e-30	1.000000
rad41	5.75281e-31	1.000000	5.75281e-31	1.000000

1000.00000 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.11858e-17 (1.00)	1.11858e-17 (1.00)
Formation of rad11	9.67466e-18 (0.865)	9.67466e-18 (0.865)
Formation of rad6	1.40029e-18 (0.125)	1.40029e-18 (0.125)
H-abstraction	1.10851e-19 (0.00991)	1.10851e-19 (0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.488137	0.488137	0.488138	0.488138
rad6	0.479943	0.968080	0.479943	0.968081
Indene+H	0.0106901	0.978770	0.0106901	0.978771
Benzene+2-propynyl	0.00990995	0.988680	0.00990995	0.988681
rad22	0.00764975	0.996330	0.00764975	0.996331
rad23	0.00226719	0.998597	0.00226719	0.998598
rad45	0.000884564	0.999482	0.000884564	0.999483
C2H2+PhCH2	0.000233657	0.999716	0.000233657	0.999717
rad7	0.000140183	0.999856	0.000140183	0.999857

rad18	6.06092e-05	0.999916	6.06092e-05	0.999917
rad36	5.51755e-05	0.999972	5.51755e-05	0.999973
rad20	1.13199e-05	0.999983	1.13199e-05	0.999984
rad21	7.27284e-06	0.999990	7.27284e-06	0.999991
rad25	4.38056e-06	0.999995	4.38056e-06	0.999995
PhCHCCH2+H	2.73714e-06	0.999997	2.73714e-06	0.999998
rad13	1.24739e-06	0.999998	1.24739e-06	0.999999
rad3	2.66753e-07	0.999999	2.66753e-07	1.000000
rad9	2.02301e-07	0.999999	2.02301e-07	1.000000
rad4	1.37300e-07	0.999999	1.37300e-07	1.000000
Phenyl+Allene	1.12187e-07	0.999999	0.000000	1.000000
rad2	4.13123e-08	0.999999	4.13123e-08	1.000000
rad28	2.10657e-08	0.999999	2.10657e-08	1.000000
rad30	1.37169e-08	0.999999	1.37169e-08	1.000000
rad15	2.84459e-09	0.999999	2.84459e-09	1.000000
rad1	2.78919e-09	0.999999	2.78919e-09	1.000000
PhCCH+CH3	1.57669e-09	0.999999	1.57669e-09	1.000000
rad33	1.54020e-09	0.999999	1.54020e-09	1.000000
PhCH2CCH+H	1.03227e-09	0.999999	1.03227e-09	1.000000
rad10	4.57670e-10	0.999999	4.57670e-10	1.000000
rad8	1.22835e-10	0.999999	1.22835e-10	1.000000
rad38	3.72120e-11	0.999999	3.72120e-11	1.000000
rad14	2.15344e-11	0.999999	2.15344e-11	1.000000
PAH9+H	2.07663e-11	0.999999	2.07663e-11	1.000000
rad24	1.14200e-11	0.999999	1.14200e-11	1.000000
rad35	1.00530e-11	0.999999	1.00530e-11	1.000000
PAH7+H	3.43717e-12	0.999999	3.43717e-12	1.000000
Ph+MeAc	3.37920e-12	0.999999	3.37920e-12	1.000000
PhCCCH3+H	2.41251e-12	0.999999	2.41251e-12	1.000000
rad60syn	1.11459e-12	0.999999	1.11459e-12	1.000000
rad46	4.59642e-13	0.999999	4.59642e-13	1.000000
rad60anti	3.56892e-13	0.999999	3.56892e-13	1.000000
rad26	2.83685e-13	0.999999	2.83685e-13	1.000000
rad27	9.50747e-14	0.999999	9.50747e-14	1.000000
rad39	3.00575e-15	0.999999	3.00575e-15	1.000000
PAH3+H	2.77539e-15	0.999999	2.77539e-15	1.000000
rad59	9.27215e-16	0.999999	9.27215e-16	1.000000
rad31	1.56929e-16	0.999999	1.56929e-16	1.000000
rad50	6.68961e-18	0.999999	6.68961e-18	1.000000
rad5	4.49901e-18	0.999999	4.49901e-18	1.000000
rad19syn	8.71383e-19	0.999999	8.71383e-19	1.000000
rad12	7.60015e-19	0.999999	7.60015e-19	1.000000
rad37	6.21623e-20	0.999999	6.21623e-20	1.000000
rad54	1.84916e-20	0.999999	1.84916e-20	1.000000
rad70	8.84151e-22	0.999999	8.84151e-22	1.000000
rad52	8.81393e-22	0.999999	8.81393e-22	1.000000
rad62	2.50002e-22	0.999999	2.50002e-22	1.000000
rad43	5.61425e-23	0.999999	5.61425e-23	1.000000
PhcycC3H3_A+H	1.80896e-23	0.999999	1.80896e-23	1.000000
rad51	1.06974e-23	0.999999	1.06974e-23	1.000000
rad55	6.20556e-24	0.999999	6.20556e-24	1.000000
PAH10+CH3	1.27633e-24	0.999999	1.27633e-24	1.000000
rad58	8.05120e-25	0.999999	8.05120e-25	1.000000
rad34	5.97939e-25	0.999999	5.97939e-25	1.000000
rad65	2.74398e-26	0.999999	2.74398e-26	1.000000
PAH1+H	3.78330e-27	0.999999	3.78330e-27	1.000000
rad42	1.33052e-28	0.999999	1.33052e-28	1.000000
rad47	5.52455e-29	0.999999	5.52455e-29	1.000000
rad41	7.70078e-30	0.999999	7.70078e-30	1.000000

1000.00000 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.82690e-17 (1.00)	1.82690e-17 (1.00)
Formation of rad11	1.55456e-17 (0.851)	1.55456e-17 (0.851)
Formation of rad6	2.49126e-18 (0.136)	2.49126e-18 (0.136)
H-abstraction	2.32112e-19 (0.0127)	2.32112e-19 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.508325	0.508325	0.508325	0.508325
rad11	0.455505	0.963831	0.455505	0.963831
Benzene+2-propynyl	0.0127053	0.976536	0.0127053	0.976536
Indene+H	0.0117734	0.988309	0.0117734	0.988309
rad22	0.00768315	0.995992	0.00768315	0.995992
rad23	0.00254221	0.998535	0.00254221	0.998535
rad45	0.000903181	0.999438	0.000903182	0.999438
C2H2+PhCH2	0.000266871	0.999705	0.000266871	0.999705
rad7	0.000157332	0.999862	0.000157332	0.999862

rad36	5.64579e-05	0.999919	5.64579e-05	0.999919
rad18	5.43618e-05	0.999973	5.43618e-05	0.999973
rad20	1.00506e-05	0.999983	1.00506e-05	0.999983
rad21	6.45136e-06	0.999989	6.45136e-06	0.999989
rad25	4.30568e-06	0.999994	4.30568e-06	0.999994
PhCHCCH2+H	3.36952e-06	0.999997	3.36952e-06	0.999997
rad13	1.30097e-06	0.999998	1.30097e-06	0.999998
rad3	3.29244e-07	0.999999	3.29244e-07	0.999999
rad9	2.54355e-07	0.999999	2.54355e-07	0.999999
rad4	1.69830e-07	0.999999	1.69830e-07	0.999999
Phenyl+Allene	1.61987e-07	0.999999	0.00000	0.999999
rad2	6.06080e-08	0.999999	6.06080e-08	0.999999
rad28	2.79440e-08	0.999999	2.79440e-08	0.999999
rad30	1.62505e-08	0.999999	1.62505e-08	0.999999
rad1	4.12359e-09	0.999999	4.12359e-09	0.999999
rad15	3.44089e-09	0.999999	3.44089e-09	0.999999
PhCCH+CH3	2.66232e-09	0.999999	2.66232e-09	0.999999
PhCH2CCH+H	1.88968e-09	0.999999	1.88968e-09	0.999999
rad33	1.60463e-09	0.999999	1.60463e-09	0.999999
rad10	7.95709e-10	0.999999	7.95709e-10	0.999999
rad8	1.77297e-10	0.999999	1.77297e-10	0.999999
rad38	4.96759e-11	0.999999	4.96759e-11	0.999999
PAH9+H	3.08773e-11	0.999999	3.08773e-11	0.999999
rad14	2.98567e-11	0.999999	2.98567e-11	0.999999
rad35	1.46916e-11	0.999999	1.46916e-11	0.999999
rad24	1.15970e-11	0.999999	1.15970e-11	0.999999
Ph+MeAc	6.89422e-12	0.999999	6.89422e-12	0.999999
PAH7+H	6.44248e-12	0.999999	6.44248e-12	0.999999
PhCCCH3+H	5.15067e-12	0.999999	5.15067e-12	0.999999
rad60syn	1.60980e-12	0.999999	1.60980e-12	0.999999
rad46	6.67329e-13	0.999999	6.67329e-13	0.999999
rad26	6.64837e-13	0.999999	6.64837e-13	0.999999
rad60anti	5.32069e-13	0.999999	5.32069e-13	0.999999
rad27	1.42827e-13	0.999999	1.42827e-13	0.999999
rad39	6.38114e-15	0.999999	6.38114e-15	0.999999
PAH3+H	6.11252e-15	0.999999	6.11252e-15	0.999999
rad59	1.98068e-15	0.999999	1.98068e-15	0.999999
rad31	2.08479e-16	0.999999	2.08479e-16	0.999999
rad50	1.61514e-17	0.999999	1.61514e-17	0.999999
rad5	1.38420e-17	0.999999	1.38420e-17	0.999999
rad19syn	3.25568e-18	0.999999	3.25568e-18	0.999999
rad12	2.82502e-18	0.999999	2.82502e-18	0.999999
rad37	2.59352e-19	0.999999	2.59352e-19	0.999999
rad54	8.16738e-20	0.999999	8.16738e-20	0.999999
rad70	5.58859e-21	0.999999	5.58859e-21	0.999999
rad52	3.26800e-21	0.999999	3.26800e-21	0.999999
rad62	1.30605e-21	0.999999	1.30605e-21	0.999999
rad43	3.03611e-22	0.999999	3.03611e-22	0.999999
PhcycC3H3_A+H	1.24735e-22	0.999999	1.24735e-22	0.999999
rad51	5.66146e-23	0.999999	5.66146e-23	0.999999
rad55	4.07570e-23	0.999999	4.07570e-23	0.999999
PAH10+CH3	9.08660e-24	0.999999	9.08660e-24	0.999999
rad58	5.54783e-24	0.999999	5.54783e-24	0.999999
rad34	5.21135e-24	0.999999	5.21135e-24	0.999999
rad65	1.81108e-25	0.999999	1.81108e-25	0.999999
PAH1+H	3.37620e-26	0.999999	3.37620e-26	0.999999
rad42	1.30091e-27	0.999999	1.30091e-27	0.999999
rad47	3.70873e-28	0.999999	3.70873e-28	0.999999
rad41	7.96753e-29	0.999999	7.96753e-29	0.999999

1000.00000 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.85520e-17 (1.00)	2.85520e-17 (1.00)
Formation of rad11	2.39009e-17 (0.837)	2.39009e-17 (0.837)
Formation of rad6	4.19900e-18 (0.147)	4.19900e-18 (0.147)
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.535809	0.535809	0.535809	0.535809
rad11	0.423410	0.959219	0.423410	0.959219
Benzene+2-propynyl	0.0158346	0.975053	0.0158346	0.975053
Indene+H	0.0129174	0.987971	0.0129175	0.987971
rad22	0.00766455	0.995635	0.00766455	0.995635
rad23	0.00283369	0.998469	0.00283369	0.998469
rad45	0.000919918	0.999389	0.000919918	0.999389
C2H2+PhCH2	0.000304466	0.999693	0.000304467	0.999693
rad7	0.000174926	0.999868	0.000174926	0.999868

rad36	5.76509e-05	0.999926	5.76509e-05	0.999926
rad18	4.86640e-05	0.999975	4.86640e-05	0.999975
rad20	8.91673e-06	0.999984	8.91673e-06	0.999984
rad21	5.71886e-06	0.999989	5.71886e-06	0.999989
rad25	4.19636e-06	0.999993	4.19637e-06	0.999994
PhCHCCH2+H	4.14393e-06	0.999998	4.14393e-06	0.999998
rad13	1.35171e-06	0.999999	1.35171e-06	0.999999
rad3	4.02989e-07	0.999999	4.02989e-07	0.999999
rad9	3.19141e-07	1.000000	3.19141e-07	1.000000
Phenyl+Allene	2.31353e-07	1.000000	0.00000	1.000000
rad4	2.08361e-07	1.00000	2.08361e-07	1.000000
rad2	8.81624e-08	1.00000	8.81625e-08	1.00000
rad28	3.69508e-08	1.00000	3.69508e-08	1.00000
rad30	1.92235e-08	1.00000	1.92235e-08	1.00000
rad1	6.04875e-09	1.00000	6.04875e-09	1.00000
PhCCH+CH3	4.45247e-09	1.00000	4.45247e-09	1.00000
rad15	4.15623e-09	1.00000	4.15623e-09	1.00000
PhCH2CCH+H	3.33813e-09	1.00000	3.33813e-09	1.00000
rad33	1.66595e-09	1.00000	1.66595e-09	1.00000
rad10	1.36501e-09	1.00000	1.36501e-09	1.00000
rad8	2.54048e-10	1.00000	2.54048e-10	1.00000
rad38	6.63479e-11	1.00000	6.63479e-11	1.00000
PAH9+H	4.58012e-11	1.00000	4.58012e-11	1.00000
rad14	4.06238e-11	1.00000	4.06238e-11	1.00000
rad35	2.14147e-11	1.00000	2.14147e-11	1.00000
Ph+MeAc	1.38401e-11	1.00000	1.38401e-11	1.00000
rad24	1.17626e-11	1.00000	1.17626e-11	1.00000
PAH7+H	1.16071e-11	1.00000	1.16071e-11	1.00000
PhCCCH3+H	1.08509e-11	1.00000	1.08509e-11	1.00000
rad60syn	2.30550e-12	1.00000	2.30550e-12	1.00000
rad26	1.52612e-12	1.00000	1.52612e-12	1.00000
rad46	9.68694e-13	1.00000	9.68694e-13	1.00000
rad60anti	7.84044e-13	1.00000	7.84044e-13	1.00000
rad27	2.11819e-13	1.00000	2.11819e-13	1.00000
rad39	1.34746e-14	1.00000	1.34746e-14	1.00000
PAH3+H	1.27645e-14	1.00000	1.27645e-14	1.00000
rad59	4.01873e-15	1.00000	4.01873e-15	1.00000
rad31	2.76287e-16	1.00000	2.76287e-16	1.00000
rad5	4.06179e-17	1.00000	4.06179e-17	1.00000
rad50	3.72829e-17	1.00000	3.72830e-17	1.00000
rad19syn	1.10430e-17	1.00000	1.10430e-17	1.00000
rad12	1.00314e-17	1.00000	1.00314e-17	1.00000
rad37	1.02076e-18	1.00000	1.02076e-18	1.00000
rad54	3.21283e-19	1.00000	3.21283e-19	1.00000
rad70	2.97145e-20	1.00000	2.97145e-20	1.00000
rad52	1.10129e-20	1.00000	1.10129e-20	1.00000
rad62	5.97224e-21	1.00000	5.97225e-21	1.00000
rad43	1.45640e-21	1.00000	1.45640e-21	1.00000
PhcycC3H3_A+H	7.25307e-22	1.00000	7.25307e-22	1.00000
rad51	2.62319e-22	1.00000	2.62320e-22	1.00000
rad55	2.26833e-22	1.00000	2.26833e-22	1.00000
PAH10+CH3	5.62994e-23	1.00000	5.62994e-23	1.00000
rad34	3.66810e-23	1.00000	3.66810e-23	1.00000
rad58	3.19474e-23	1.00000	3.19474e-23	1.00000
rad65	1.02040e-24	1.00000	1.02040e-24	1.00000
PAH1+H	2.45591e-25	1.00000	2.45591e-25	1.00000
rad42	1.01441e-26	1.00000	1.01441e-26	1.00000
rad47	2.06117e-27	1.00000	2.06117e-27	1.00000
rad41	6.58723e-28	1.00000	6.58724e-28	1.00000

1000.00000 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.29529e-17 (1.00)	4.29529e-17 (1.00)
Formation of rad11	3.53712e-17 (0.823)	3.53712e-17 (0.823)
Formation of rad6	6.75433e-18 (0.157)	6.75433e-18 (0.157)
H-abstraction	8.27372e-19 (0.0193)	8.27372e-19 (0.0193)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.562276	0.562276	0.562277	0.562277
rad11	0.392007	0.954282	0.392007	0.954283
Benzene+2-propynyl	0.0192623	0.973545	0.0192623	0.973546
Indene+H	0.0141185	0.987663	0.0141185	0.987664
rad22	0.00759380	0.995257	0.00759381	0.995258
rad23	0.00314022	0.998397	0.00314022	0.998398
rad45	0.000934944	0.999332	0.000934944	0.999333
C2H2+PhCH2	0.000346922	0.999679	0.000346922	0.999680
rad7	0.000192796	0.999872	0.000192796	0.999873

rad36	5.87679e-05	0.999931	5.87679e-05	0.999932
rad18	4.34687e-05	0.999974	4.34687e-05	0.999975
rad20	7.90203e-06	0.999982	7.90204e-06	0.999983
PhCHCCH2+H	5.08826e-06	0.999987	5.08826e-06	0.999988
rad21	5.06433e-06	0.999992	5.06433e-06	0.999993
rad25	4.05629e-06	0.999996	4.05629e-06	0.999997
rad13	1.39948e-06	0.999998	1.39948e-06	0.999999
rad3	4.89273e-07	0.999998	4.89273e-07	0.999999
rad9	3.99341e-07	0.999998	3.99341e-07	0.999999
Phenyl+Allene	3.26823e-07	0.999999	0.00000	0.999999
rad4	2.53626e-07	0.999999	2.53626e-07	1.000000
rad2	1.27148e-07	0.999999	1.27148e-07	1.000000
rad28	4.87403e-08	0.999999	4.87403e-08	1.000000
rad30	2.27020e-08	0.999999	2.27020e-08	1.000000
rad1	8.80310e-09	0.999999	8.80310e-09	1.000000
PhCCH+CH3	7.36916e-09	0.999999	7.36916e-09	1.000000
PhCH2CCH+H	5.71160e-09	0.999999	5.71160e-09	1.000000
rad15	5.01157e-09	0.999999	5.01158e-09	1.000000
rad10	2.30772e-09	0.999999	2.30772e-09	1.000000
rad33	1.72401e-09	0.999999	1.72401e-09	1.000000
rad8	3.61179e-10	0.999999	3.61179e-10	1.000000
rad38	8.86267e-11	0.999999	8.86268e-11	1.000000
PAH9+H	6.77126e-11	0.999999	6.77126e-11	1.000000
rad14	5.42788e-11	0.999999	5.42788e-11	1.000000
rad35	3.11078e-11	0.999999	3.11078e-11	1.000000
Ph+MeAc	2.73343e-11	0.999999	2.73343e-11	1.000000
PhCCCH3+H	2.25174e-11	0.999999	2.25174e-11	1.000000
PAH7+H	2.01913e-11	0.999999	2.01913e-11	1.000000
rad24	1.19195e-11	0.999999	1.19195e-11	1.000000
rad26	3.42328e-12	0.999999	3.42328e-12	1.000000
rad60syn	3.27308e-12	0.999999	3.27308e-12	1.000000
rad46	1.40475e-12	0.999999	1.40475e-12	1.000000
rad60anti	1.14215e-12	0.999999	1.14215e-12	1.000000
rad27	3.10265e-13	0.999999	3.10265e-13	1.000000
rad39	2.82712e-14	0.999999	2.82712e-14	1.000000
PAH3+H	2.54440e-14	0.999999	2.54440e-14	1.000000
rad59	7.79576e-15	0.999999	7.79576e-15	1.000000
rad31	3.65515e-16	0.999999	3.65515e-16	1.000000
rad5	1.13956e-16	0.999999	1.13956e-16	1.000000
rad50	8.27071e-17	0.999999	8.27072e-17	1.000000
rad19syn	3.44389e-17	0.999999	3.44389e-17	1.000000
rad12	3.39654e-17	0.999999	3.39654e-17	1.000000
rad37	3.78762e-18	0.999999	3.78762e-18	1.000000
rad54	1.14286e-18	0.999999	1.14286e-18	1.000000
rad70	1.35965e-19	0.999999	1.35965e-19	1.000000
rad52	3.41697e-20	0.999999	3.41697e-20	1.000000
rad62	2.42838e-20	0.999999	2.42838e-20	1.000000
rad43	6.27192e-21	0.999999	6.27192e-21	1.000000
PhcycC3H3_A+H	3.62788e-21	0.999999	3.62788e-21	1.000000
rad55	1.09130e-21	0.999999	1.09130e-21	1.000000
rad51	1.08192e-21	0.999999	1.08193e-21	1.000000
PAH10+CH3	3.06283e-22	0.999999	3.06283e-22	1.000000
rad34	2.14341e-22	0.999999	2.14341e-22	1.000000
rad58	1.57298e-22	0.999999	1.57298e-22	1.000000
rad65	4.99862e-24	0.999999	4.99862e-24	1.000000
PAH1+H	1.49140e-24	0.999999	1.49140e-24	1.000000
rad42	6.49287e-26	0.999999	6.49287e-26	1.000000
rad47	9.72661e-27	0.999999	9.72662e-27	1.000000
rad41	4.47573e-27	0.999999	4.47573e-27	1.000000

1000.00000 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.25016e-17 (1.00)	6.25016e-17 (1.00)
Formation of rad11	5.06355e-17 (0.810)	5.06355e-17 (0.810)
Formation of rad6	1.04318e-17 (0.167)	1.04318e-17 (0.167)
H-abstraction	1.43428e-18 (0.0229)	1.43428e-18 (0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.587618	0.587618	0.587619	0.587619
rad11	0.361453	0.949070	0.361454	0.949072
Benzene+2-propynyl	0.0229478	0.972018	0.0229478	0.972020
Indene+H	0.0153716	0.987390	0.0153716	0.987392
rad22	0.00747185	0.994862	0.00747185	0.994864
rad23	0.00345989	0.998322	0.00345990	0.998323
rad45	0.000948438	0.999270	0.000948438	0.999272
C2H2+PhCH2	0.000394719	0.999665	0.000394719	0.999667
rad7	0.000210771	0.999875	0.000210771	0.999877

rad36	5.98226e-05	0.999935	5.98226e-05	0.999937
rad18	3.87354e-05	0.999974	3.87355e-05	0.999976
rad20	6.99291e-06	0.999981	6.99291e-06	0.999983
PhCHCCH2+H	6.23434e-06	0.999987	6.23434e-06	0.999989
rad21	4.47875e-06	0.999992	4.47875e-06	0.999994
rad25	3.88971e-06	0.999996	3.88971e-06	0.999998
rad13	1.44417e-06	0.999997	1.44417e-06	0.999999
rad3	5.89295e-07	0.999998	5.89295e-07	1.000000
rad9	4.98042e-07	0.999998	4.98042e-07	1.000000
Phenyl+Allene	4.56674e-07	0.999999	0.000000	1.000000
rad4	3.06332e-07	0.999999	3.06332e-07	1.000000
rad2	1.81751e-07	0.999999	1.81751e-07	1.000000
rad28	6.41628e-08	0.999999	6.41629e-08	1.000000
rad30	2.67581e-08	0.999999	2.67582e-08	1.000000
rad1	1.27079e-08	0.999999	1.27079e-08	1.000000
PhCCH+CH3	1.20598e-08	0.999999	1.20598e-08	1.000000
PhCH2CCH+H	9.49534e-09	0.999999	9.49534e-09	1.000000
rad15	6.03042e-09	0.999999	6.03042e-09	1.000000
rad10	3.84031e-09	0.999999	3.84031e-09	1.000000
rad33	1.77870e-09	0.999999	1.77870e-09	1.000000
rad8	5.09274e-10	0.999999	5.09274e-10	1.000000
rad38	1.18354e-10	0.999999	1.18354e-10	1.000000
PAH9+H	9.96847e-11	0.999999	9.96847e-11	1.000000
rad14	7.12592e-11	0.999999	7.12592e-11	1.000000
Ph+MeAc	5.31097e-11	0.999999	5.31097e-11	1.000000
PhCCCH3+H	4.59601e-11	0.999999	4.59601e-11	1.000000
rad35	4.49981e-11	0.999999	4.49981e-11	1.000000
PAH7+H	3.40433e-11	0.999999	3.40433e-11	1.000000
rad24	1.20701e-11	0.999999	1.20701e-11	1.000000
rad26	7.49036e-12	0.999999	7.49036e-12	1.000000
rad60syn	4.60524e-12	0.999999	4.60524e-12	1.000000
rad46	2.03354e-12	0.999999	2.03354e-12	1.000000
rad60anti	1.64503e-12	0.999999	1.64503e-12	1.000000
rad27	4.48959e-13	0.999999	4.48959e-13	1.000000
rad39	5.88635e-14	0.999999	5.88636e-14	1.000000
PAH3+H	4.86790e-14	0.999999	4.86790e-14	1.000000
rad59	1.45363e-14	0.999999	1.45363e-14	1.000000
rad31	4.82997e-16	0.999999	4.82997e-16	1.000000
rad5	3.06295e-16	0.999999	3.06295e-16	1.000000
rad50	1.77079e-16	0.999999	1.77079e-16	1.000000
rad12	1.09507e-16	0.999999	1.09507e-16	1.000000
rad19syn	9.97482e-17	0.999999	9.97492e-17	1.000000
rad37	1.32426e-17	0.999999	1.32426e-17	1.000000
rad54	3.72044e-18	0.999999	3.72045e-18	1.000000
rad70	5.45450e-19	0.999999	5.45451e-19	1.000000
rad52	9.86393e-20	0.999999	9.86393e-20	1.000000
rad62	8.89274e-20	0.999999	8.89275e-20	1.000000
rad43	2.44818e-20	0.999999	2.44818e-20	1.000000
PhcycC3H3_A+H	1.58660e-20	0.999999	1.58660e-20	1.000000
rad55	4.61239e-21	0.999999	4.61239e-21	1.000000
rad51	4.02544e-21	0.999999	4.02544e-21	1.000000
PAH10+CH3	1.47552e-21	0.999999	1.47552e-21	1.000000
rad34	1.06380e-21	0.999999	1.06380e-21	1.000000
rad58	6.74681e-22	0.999999	6.74682e-22	1.000000
rad65	2.16131e-23	0.999999	2.16131e-23	1.000000
PAH1+H	7.71637e-24	0.999999	7.71637e-24	1.000000
rad42	3.49511e-25	0.999999	3.49511e-25	1.000000
rad47	3.98123e-26	0.999999	3.98123e-26	1.000000
rad41	2.55980e-26	0.999999	2.55980e-26	1.000000

1000.00000 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83272e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04077e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55481e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.611739	0.611739	0.611740	0.611740
rad11	0.331893	0.943632	0.331893	0.943633
Benzene+2-propynyl	0.0268483	0.970480	0.0268483	0.970481
Indene+H	0.0166697	0.987150	0.0166697	0.987151
rad22	0.00730075	0.994451	0.00730076	0.994452
rad23	0.00379030	0.998241	0.00379031	0.998242
rad45	0.000960581	0.999202	0.000960582	0.999203
C2H2+PhCH2	0.000448345	0.999650	0.000448346	0.999651
rad7	0.000228672	0.999879	0.000228672	0.999880

rad36	6.08288e-05	0.999940	6.08288e-05	0.999941
rad18	3.44288e-05	0.999974	3.44288e-05	0.999975
PhCHCCH2+H	7.61808e-06	0.999982	7.61808e-06	0.999983
rad20	6.17805e-06	0.999988	6.17806e-06	0.999989
rad21	3.95457e-06	0.999992	3.95458e-06	0.999993
rad25	3.70122e-06	0.999995	3.70123e-06	0.999996
rad13	1.48568e-06	0.999997	1.48569e-06	0.999998
rad3	7.04090e-07	0.999998	7.04091e-07	0.999999
Phenyl+Allene	6.31243e-07	0.999998	0.00000	0.999999
rad9	6.18765e-07	0.999999	6.18766e-07	0.999999
rad4	3.67123e-07	0.999999	3.67123e-07	1.000000
rad2	2.57396e-07	1.000000	2.57396e-07	1.000000
rad28	8.43200e-08	1.000000	8.43200e-08	1.000000
rad30	3.14696e-08	1.000000	3.14696e-08	1.000000
PhCCH+CH3	1.94995e-08	1.000000	1.94995e-08	1.000000
rad1	1.81895e-08	1.000000	1.81896e-08	1.000000
PhCH2CCH+H	1.53784e-08	1.000000	1.53784e-08	1.000000
rad15	7.23886e-09	1.000000	7.23887e-09	1.000000
rad10	6.28356e-09	1.000000	6.28357e-09	1.000000
rad33	1.82993e-09	1.000000	1.82993e-09	1.000000
rad8	7.12013e-10	1.000000	7.12013e-10	1.000000
rad38	1.57949e-10	1.000000	1.57949e-10	1.000000
PAH9+H	1.46018e-10	1.000000	1.46019e-10	1.000000
Ph+MeAc	1.01523e-10	1.000000	1.01523e-10	1.000000
PhCCCH3+H	9.21610e-11	1.000000	9.21610e-11	1.000000
rad14	9.19701e-11	1.000000	9.19701e-11	1.000000
rad35	6.47698e-11	1.000000	6.47699e-11	1.000000
PAH7+H	5.58144e-11	1.000000	5.58144e-11	1.000000
rad26	1.59670e-11	1.000000	1.59670e-11	1.000000
rad24	1.22169e-11	1.000000	1.22169e-11	1.000000
rad60syn	6.42064e-12	1.000000	6.42065e-12	1.000000
rad46	2.93677e-12	1.000000	2.93677e-12	1.000000
rad60anti	2.34303e-12	1.000000	2.34303e-12	1.000000
rad27	6.41823e-13	1.000000	6.41824e-13	1.000000
rad39	1.21447e-13	1.000000	1.21447e-13	1.000000
PAH3+H	8.97930e-14	1.000000	8.97931e-14	1.000000
rad59	2.61690e-14	1.000000	2.61690e-14	1.000000
rad5	7.89971e-16	1.000000	7.89971e-16	1.000000
rad31	6.37802e-16	1.000000	6.37803e-16	1.000000
rad50	3.67220e-16	1.000000	3.67220e-16	1.000000
rad12	3.35808e-16	1.000000	3.35808e-16	1.000000
rad19syn	2.70459e-16	1.000000	2.70459e-16	1.000000
rad37	4.36053e-17	1.000000	4.36053e-17	1.000000
rad54	1.11872e-17	1.000000	1.11872e-17	1.000000
rad70	1.94807e-18	1.000000	1.94807e-18	1.000000
rad62	2.96334e-19	1.000000	2.96335e-19	1.000000
rad52	2.67158e-19	1.000000	2.67159e-19	1.000000
rad43	8.72974e-20	1.000000	8.72975e-20	1.000000
PhcycC3H3_A+H	6.15046e-20	1.000000	6.15046e-20	1.000000
rad55	1.73559e-20	1.000000	1.73559e-20	1.000000
rad51	1.36558e-20	1.000000	1.36558e-20	1.000000
PAH10+CH3	6.34759e-21	1.000000	6.34759e-21	1.000000
rad34	4.57114e-21	1.000000	4.57114e-21	1.000000
rad58	2.56024e-21	1.000000	2.56024e-21	1.000000
rad65	8.35216e-23	1.000000	8.35216e-23	1.000000
PAH1+H	3.46154e-23	1.000000	3.46154e-23	1.000000
rad42	1.61516e-24	1.000000	1.61516e-24	1.000000
rad47	1.43906e-25	1.000000	1.43906e-25	1.000000
rad41	1.25778e-25	1.000000	1.25778e-25	1.000000

1000.00000 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.21641e-16 (1.00)	1.21641e-16 (1.00)
Formation of rad11	9.54219e-17 (0.784)	9.54218e-17 (0.784)
Formation of rad6	2.24583e-17 (0.185)	2.24583e-17 (0.185)
H-abstraction	3.76121e-18 (0.0309)	3.76121e-18 (0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.634553	0.634553	0.634553	0.634553
rad11	0.303464	0.938018	0.303464	0.938018
Benzene+2-propynyl	0.0309205	0.968938	0.0309205	0.968938
Indene+H	0.0180048	0.986943	0.0180048	0.986943
rad22	0.00708374	0.994027	0.00708375	0.994027
rad23	0.00412862	0.998155	0.00412862	0.998155
rad45	0.000971551	0.999127	0.000971551	0.999127
C2H2+PhCH2	0.000508286	0.999635	0.000508287	0.999635
rad7	0.000246325	0.999881	0.000246325	0.999881

rad36	6.18003e-05	0.999943	6.18004e-05	0.999943
rad18	3.05176e-05	0.999974	3.05176e-05	0.999974
PhCHCCH2+H	9.27978e-06	0.999983	9.27979e-06	0.999983
rad20	5.44792e-06	0.999988	5.44792e-06	0.999988
rad25	3.49562e-06	0.999992	3.49562e-06	0.999992
rad21	3.48545e-06	0.999995	3.48545e-06	0.999995
rad13	1.52395e-06	0.999997	1.52395e-06	0.999997
Phenyl+Allene	8.63280e-07	0.999998	0.00000	0.999997
rad3	8.34451e-07	0.999999	8.34452e-07	0.999998
rad9	7.65489e-07	0.999999	7.65488e-07	0.999999
rad4	4.36538e-07	1.000000	4.36538e-07	0.999999
rad2	3.60984e-07	1.000000	3.60984e-07	0.999999
rad28	1.10633e-07	1.000000	1.10633e-07	1.000000
rad30	3.69193e-08	1.000000	3.69193e-08	1.000000
PhCCH+CH3	3.11323e-08	1.000000	3.11324e-08	1.000000
rad1	2.58046e-08	1.000000	2.58046e-08	1.000000
PhCH2CCH+H	2.43190e-08	1.000000	2.43190e-08	1.000000
rad10	1.00997e-08	1.000000	1.00997e-08	1.000000
rad15	8.66563e-09	1.000000	8.66563e-09	1.000000
rad33	1.87764e-09	1.000000	1.87764e-09	1.000000
rad8	9.86920e-10	1.000000	9.86920e-10	1.000000
PAH9+H	2.12677e-10	1.000000	2.12677e-10	1.000000
rad38	2.10578e-10	1.000000	2.10578e-10	1.000000
Ph+MeAc	1.90957e-10	1.000000	1.90957e-10	1.000000
PhCCCH3+H	1.81395e-10	1.000000	1.81395e-10	1.000000
rad14	1.16758e-10	1.000000	1.16758e-10	1.000000
rad35	9.27121e-11	1.000000	9.27122e-11	1.000000
PAH7+H	8.92378e-11	1.000000	8.92379e-11	1.000000
rad26	3.31333e-11	1.000000	3.31333e-11	1.000000
rad24	1.23625e-11	1.000000	1.23625e-11	1.000000
rad60syn	8.86965e-12	1.000000	8.86966e-12	1.000000
rad46	4.22895e-12	1.000000	4.22895e-12	1.000000
rad60anti	3.30077e-12	1.000000	3.30077e-12	1.000000
rad27	9.06477e-13	1.000000	9.06477e-13	1.000000
rad39	2.47860e-13	1.000000	2.47860e-13	1.000000
PAH3+H	1.60295e-13	1.000000	1.60295e-13	1.000000
rad59	4.56509e-14	1.000000	4.56509e-14	1.000000
rad5	1.95725e-15	1.000000	1.95725e-15	1.000000
rad12	9.78615e-16	1.000000	9.78615e-16	1.000000
rad31	8.42017e-16	1.000000	8.42018e-16	1.000000
rad50	7.39720e-16	1.000000	7.39720e-16	1.000000
rad19syn	6.90698e-16	1.000000	6.90699e-16	1.000000
rad37	1.35206e-16	1.000000	1.35206e-16	1.000000
rad54	3.12962e-17	1.000000	3.12962e-17	1.000000
rad70	6.27315e-18	1.000000	6.27315e-18	1.000000
rad62	9.06256e-19	1.000000	9.06257e-19	1.000000
rad52	6.83360e-19	1.000000	6.83360e-19	1.000000
rad43	2.86246e-19	1.000000	2.86246e-19	1.000000
PhcycC3H3_A+H	2.13820e-19	1.000000	2.13820e-19	1.000000
rad55	5.88016e-20	1.000000	5.88017e-20	1.000000
rad51	4.26040e-20	1.000000	4.26040e-20	1.000000
PAH10+CH3	2.45865e-20	1.000000	2.45865e-20	1.000000
rad34	1.72828e-20	1.000000	1.72828e-20	1.000000
rad58	8.70722e-21	1.000000	8.70723e-21	1.000000
rad65	2.91536e-22	1.000000	2.91536e-22	1.000000
PAH1+H	1.36688e-22	1.000000	1.36688e-22	1.000000
rad42	6.52081e-24	1.000000	6.52082e-24	1.000000
rad41	5.40326e-25	1.000000	5.40326e-25	1.000000
rad47	4.66385e-25	1.000000	4.66386e-25	1.000000

1000.00000 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.63720e-16 (1.00)	1.63720e-16 (1.00)
Formation of rad11	1.26419e-16 (0.772)	1.26418e-16 (0.772)
Formation of rad6	3.15515e-17 (0.193)	3.15514e-17 (0.193)
H-abstraction	5.75028e-18 (0.0351)	5.75028e-18 (0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.655988	0.655988	0.655989	0.655989
rad11	0.276286	0.932274	0.276287	0.932276
Benzene+2-propynyl	0.0351226	0.967397	0.0351226	0.967399
Indene+H	0.0193678	0.986765	0.0193678	0.986767
rad22	0.00682512	0.993590	0.00682513	0.993592
rad23	0.00447161	0.998061	0.00447162	0.998063
rad45	0.000981502	0.999043	0.000981502	0.999045
C2H2+PhCH2	0.000575023	0.999618	0.000575023	0.999620
rad7	0.000263561	0.999881	0.000263562	0.999883

rad36	6.27502e-05	0.999944	6.27502e-05	0.999946
rad18	2.69734e-05	0.999971	2.69734e-05	0.999973
PhCHCCH2+H	1.12643e-05	0.999982	1.12643e-05	0.999984
rad20	4.79425e-06	0.999987	4.79426e-06	0.999989
rad25	3.27770e-06	0.999990	3.27770e-06	0.999992
rad21	3.06592e-06	0.999994	3.06592e-06	0.999995
rad13	1.55889e-06	0.999995	1.55890e-06	0.999997
Phenyl+Allene	1.16833e-06	0.999996	0.00000	0.999997
rad3	9.80856e-07	0.999997	9.80856e-07	0.999998
rad9	9.42667e-07	0.999998	9.42668e-07	0.999999
rad4	5.14970e-07	0.999999	5.14970e-07	0.999999
rad2	5.01134e-07	0.999999	5.01135e-07	1.000000
rad28	1.44928e-07	0.999999	1.44928e-07	1.00000
PhCCH+CH3	4.90578e-08	0.999999	4.90578e-08	1.00000
rad30	4.31956e-08	0.999999	4.31956e-08	1.00000
PhCH2CCH+H	3.76238e-08	0.999999	3.76238e-08	1.00000
rad1	3.62696e-08	1.000000	3.62696e-08	1.00000
rad10	1.59367e-08	1.000000	1.59367e-08	1.00000
rad15	1.03421e-08	1.000000	1.03421e-08	1.00000
rad33	1.92179e-09	1.000000	1.92179e-09	1.00000
rad8	1.35624e-09	1.000000	1.35624e-09	1.00000
Ph+MeAc	3.53448e-10	1.000000	3.53448e-10	1.00000
PhCCCH3+H	3.50194e-10	1.000000	3.50195e-10	1.00000
PAH9+H	3.07846e-10	1.000000	3.07846e-10	1.00000
rad38	2.80377e-10	1.000000	2.80378e-10	1.00000
rad14	1.45879e-10	1.000000	1.45879e-10	1.00000
PAH7+H	1.39486e-10	1.000000	1.39487e-10	1.00000
rad35	1.31908e-10	1.000000	1.31908e-10	1.00000
rad26	6.69016e-11	1.000000	6.69017e-11	1.00000
rad24	1.25094e-11	1.000000	1.25094e-11	1.00000
rad60syn	1.21405e-11	1.000000	1.21405e-11	1.00000
rad46	6.06968e-12	1.000000	6.06968e-12	1.00000
rad60anti	4.60033e-12	1.000000	4.60034e-12	1.00000
rad27	1.26481e-12	1.000000	1.26481e-12	1.00000
rad39	4.99304e-13	1.000000	4.99304e-13	1.00000
PAH3+H	2.77801e-13	1.000000	2.77802e-13	1.00000
rad59	7.74031e-14	1.000000	7.74032e-14	1.00000
rad5	4.66209e-15	1.000000	4.66208e-15	1.00000
rad12	2.70893e-15	1.000000	2.70893e-15	1.00000
rad19syn	1.66914e-15	1.000000	1.66915e-15	1.00000
rad50	1.45067e-15	1.000000	1.45068e-15	1.00000
rad31	1.11183e-15	1.000000	1.11183e-15	1.00000
rad37	3.94902e-16	1.000000	3.94902e-16	1.00000
rad54	8.19157e-17	1.000000	8.19158e-17	1.00000
rad70	1.84082e-17	1.000000	1.84082e-17	1.00000
rad62	2.56175e-18	1.000000	2.56175e-18	1.00000
rad52	1.65916e-18	1.000000	1.65916e-18	1.00000
rad43	8.68123e-19	1.000000	8.68124e-19	1.00000
PhcycC3H3_A+H	6.73420e-19	1.000000	6.73420e-19	1.00000
rad55	1.81112e-19	1.000000	1.81112e-19	1.00000
rad51	1.23112e-19	1.000000	1.23112e-19	1.00000
PAH10+CH3	8.64379e-20	1.000000	8.64380e-20	1.00000
rad34	5.82935e-20	1.000000	5.82936e-20	1.00000
rad58	2.68324e-20	1.000000	2.68325e-20	1.00000
rad65	9.27603e-22	1.000000	9.27604e-22	1.00000
PAH1+H	4.81394e-22	1.000000	4.81395e-22	1.00000
rad42	2.33468e-23	1.000000	2.33469e-23	1.00000
rad41	2.06010e-24	1.000000	2.06011e-24	1.00000
rad47	1.37290e-24	1.000000	1.37290e-24	1.00000

1000.00000 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.15887e-16 (1.00)	2.15887e-16 (1.00)
Formation of rad11	1.64133e-16 (0.760)	1.64132e-16 (0.760)
Formation of rad6	4.32452e-17 (0.200)	4.32451e-17 (0.200)
H-abstraction	8.50919e-18 (0.0394)	8.50919e-18 (0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.675989	0.675989	0.675990	0.675990
rad11	0.250464	0.926452	0.250465	0.926454
Benzene+2-propynyl	0.0394150	0.965868	0.0394151	0.965869
Indene+H	0.0207486	0.986616	0.0207487	0.986618
rad22	0.00653009	0.993146	0.00653010	0.993148
rad23	0.00481580	0.997962	0.00481581	0.997964
rad45	0.000990594	0.998953	0.000990594	0.998955
C2H2+PhCH2	0.000649025	0.999602	0.000649026	0.999604
rad7	0.000280222	0.999882	0.000280223	0.999884

rad36	6.36900e-05	0.999946	6.36900e-05	0.999948
rad18	2.37706e-05	0.999969	2.37707e-05	0.999971
PhCHCCH2+H	1.36212e-05	0.999983	1.36212e-05	0.999985
rad20	4.20988e-06	0.999987	4.20989e-06	0.999989
rad25	3.05206e-06	0.999990	3.05206e-06	0.999992
rad21	2.69121e-06	0.999993	2.69122e-06	0.999995
rad13	1.59054e-06	0.999995	1.59054e-06	0.999997
Phenyl+Allene	1.56516e-06	0.999996	0.00000	0.999997
rad9	1.15526e-06	0.999997	1.15526e-06	0.999998
rad3	1.14338e-06	0.999998	1.14339e-06	0.999999
rad2	6.88414e-07	0.999999	6.88415e-07	1.000000
rad4	6.02632e-07	1.000000	6.02633e-07	1.000000
rad28	1.89543e-07	1.000000	1.89543e-07	1.000000
PhCCH+CH3	7.62777e-08	1.000000	7.62779e-08	1.000000
PhCH2CCH+H	5.70431e-08	1.000000	5.70432e-08	1.000000
rad1	5.04921e-08	1.000000	5.04922e-08	1.000000
rad30	5.03917e-08	1.000000	5.03918e-08	1.000000
rad10	2.46769e-08	1.000000	2.46770e-08	1.000000
rad15	1.23027e-08	1.000000	1.23027e-08	1.000000
rad33	1.96240e-09	1.000000	1.96240e-09	1.000000
rad8	1.84802e-09	1.000000	1.84803e-09	1.000000
PhCCCH3+H	6.62730e-10	1.000000	6.62731e-10	1.000000
Ph+MeAc	6.43751e-10	1.000000	6.43752e-10	1.000000
PAH9+H	4.42663e-10	1.000000	4.42663e-10	1.000000
rad38	3.72734e-10	1.000000	3.72735e-10	1.000000
PAH7+H	2.13629e-10	1.000000	2.13629e-10	1.000000
rad35	1.86475e-10	1.000000	1.86475e-10	1.000000
rad14	1.79484e-10	1.000000	1.79484e-10	1.000000
rad26	1.31419e-10	1.000000	1.31419e-10	1.000000
rad60syn	1.64663e-11	1.000000	1.64663e-11	1.000000
rad24	1.26598e-11	1.000000	1.26598e-11	1.000000
rad46	8.68030e-12	1.000000	8.68032e-12	1.000000
rad60anti	6.34473e-12	1.000000	6.34474e-12	1.000000
rad27	1.74352e-12	1.000000	1.74352e-12	1.000000
rad39	9.90334e-13	1.000000	9.90334e-13	1.000000
PAH3+H	4.68608e-13	1.000000	4.68609e-13	1.000000
rad59	1.27882e-13	1.000000	1.27883e-13	1.000000
rad5	1.06814e-14	1.000000	1.06814e-14	1.000000
rad12	7.12289e-15	1.000000	7.12291e-15	1.000000
rad19syn	3.83066e-15	1.000000	3.83067e-15	1.000000
rad50	2.77434e-15	1.000000	2.77434e-15	1.000000
rad31	1.46907e-15	1.000000	1.46907e-15	1.000000
rad37	1.08747e-15	1.000000	1.08747e-15	1.000000
rad54	2.01519e-16	1.000000	2.01519e-16	1.000000
rad70	4.96696e-17	1.000000	4.96697e-17	1.000000
rad62	6.73444e-18	1.000000	6.73445e-18	1.000000
rad52	3.83852e-18	1.000000	3.83852e-18	1.000000
rad43	2.44809e-18	1.000000	2.44809e-18	1.000000
PhcycC3H3_A+H	1.93861e-18	1.000000	1.93861e-18	1.000000
rad55	5.11428e-19	1.000000	5.11428e-19	1.000000
rad51	3.31479e-19	1.000000	3.31480e-19	1.000000
PAH10+CH3	2.77956e-19	1.000000	2.77957e-19	1.000000
rad34	1.77496e-19	1.000000	1.77496e-19	1.000000
rad58	7.56319e-20	1.000000	7.56320e-20	1.000000
rad65	2.71201e-21	1.000000	2.71201e-21	1.000000
PAH1+H	1.52956e-21	1.000000	1.52956e-21	1.000000
rad42	7.50928e-23	1.000000	7.50929e-23	1.000000
rad41	7.06192e-24	1.000000	7.06193e-24	1.000000
rad47	3.71161e-24	1.000000	3.71162e-24	1.000000

1000.00000 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.79491e-16 (1.00)	2.79491e-16 (1.00)
Formation of rad11	2.09281e-16 (0.749)	2.09281e-16 (0.749)
Formation of rad6	5.79792e-17 (0.207)	5.79791e-17 (0.207)
H-abstraction	1.22310e-17 (0.0438)	1.22310e-17 (0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.694511	0.694511	0.694513	0.694513
rad11	0.226082	0.920594	0.226082	0.920596
Benzene+2-propynyl	0.0437616	0.964355	0.0437617	0.964357
Indene+H	0.0221375	0.986493	0.0221375	0.986495
rad22	0.00620462	0.992697	0.00620464	0.992699
rad23	0.00515748	0.997855	0.00515749	0.997857
rad45	0.000998934	0.998854	0.000998934	0.998856
C2H2+PhCH2	0.000730755	0.999585	0.000730757	0.999586
rad7	0.000296164	0.999881	0.000296165	0.999883

rad36	6.46296e-05	0.999945	6.46297e-05	0.999947
rad18	2.08850e-05	0.999966	2.08851e-05	0.999968
PhCHCCH2+H	1.64049e-05	0.999983	1.64050e-05	0.999985
rad20	3.68839e-06	0.999986	3.68840e-06	0.999988
rad25	2.82301e-06	0.999989	2.82302e-06	0.999991
rad21	2.35714e-06	0.999991	2.35715e-06	0.999993
Phenyl+Allene	2.07612e-06	0.999994	0.00000	0.999993
rad13	1.61886e-06	0.999995	1.61886e-06	0.999995
rad9	1.40874e-06	0.999997	1.40874e-06	0.999996
rad3	1.32173e-06	0.999998	1.32174e-06	0.999998
rad2	9.35537e-07	0.999999	9.35539e-07	0.999999
rad4	6.99539e-07	1.000000	6.99541e-07	0.999999
rad28	2.47446e-07	1.000000	2.47446e-07	1.000000
PhCCH+CH3	1.17009e-07	1.000000	1.17010e-07	1.000000
PhCH2CCH+H	8.48803e-08	1.000000	8.48805e-08	1.000000
rad1	6.96053e-08	1.000000	6.96054e-08	1.000000
rad30	5.86057e-08	1.000000	5.86058e-08	1.000000
rad10	3.74895e-08	1.000000	3.74895e-08	1.000000
rad15	1.45841e-08	1.000000	1.45841e-08	1.000000
rad8	2.49737e-09	1.000000	2.49738e-09	1.000000
rad33	1.99949e-09	1.000000	1.99949e-09	1.000000
PhCCCH3+H	1.22875e-09	1.000000	1.22875e-09	1.000000
Ph+MeAc	1.15347e-09	1.000000	1.15347e-09	1.000000
PAH9+H	6.32139e-10	1.000000	6.32140e-10	1.000000
rad38	4.94643e-10	1.000000	4.94644e-10	1.000000
PAH7+H	3.21215e-10	1.000000	3.21216e-10	1.000000
rad35	2.61856e-10	1.000000	2.61857e-10	1.000000
rad26	2.51138e-10	1.000000	2.51139e-10	1.000000
rad14	2.17594e-10	1.000000	2.17594e-10	1.000000
rad60syn	2.21330e-11	1.000000	2.21330e-11	1.000000
rad24	1.28160e-11	1.000000	1.28160e-11	1.000000
rad46	1.23659e-11	1.000000	1.23659e-11	1.000000
rad60anti	8.66178e-12	1.000000	8.66180e-12	1.000000
rad27	2.37455e-12	1.000000	2.37456e-12	1.000000
rad39	1.92874e-12	1.000000	1.92875e-12	1.000000
PAH3+H	7.71033e-13	1.000000	7.71035e-13	1.000000
rad59	2.06304e-13	1.000000	2.06304e-13	1.000000
rad5	2.35488e-14	1.000000	2.35489e-14	1.000000
rad12	1.78001e-14	1.000000	1.78002e-14	1.000000
rad19syn	8.37238e-15	1.000000	8.37240e-15	1.000000
rad50	5.17984e-15	1.000000	5.17986e-15	1.000000
rad37	2.82767e-15	1.000000	2.82768e-15	1.000000
rad31	1.94338e-15	1.000000	1.94338e-15	1.000000
rad54	4.67734e-16	1.000000	4.67735e-16	1.000000
rad70	1.24187e-16	1.000000	1.24187e-16	1.000000
rad62	1.65534e-17	1.000000	1.65534e-17	1.000000
rad52	8.48709e-18	1.000000	8.48711e-18	1.000000
rad43	6.45086e-18	1.000000	6.45087e-18	1.000000
PhcycC3H3_A+H	5.14153e-18	1.000000	5.14154e-18	1.000000
rad55	1.33394e-18	1.000000	1.33395e-18	1.000000
rad51	8.35945e-19	1.000000	8.35946e-19	1.000000
PAH10+CH3	8.23491e-19	1.000000	8.23492e-19	1.000000
rad34	4.92911e-19	1.000000	4.92912e-19	1.000000
rad58	1.96589e-19	1.000000	1.96590e-19	1.000000
rad65	7.33794e-21	1.000000	7.33796e-21	1.000000
PAH1+H	4.42885e-21	1.000000	4.42886e-21	1.000000
rad42	2.19410e-22	1.000000	2.19410e-22	1.000000
rad41	2.20095e-23	1.000000	2.20096e-23	1.000000
rad47	9.30299e-24	1.000000	9.30300e-24	1.000000

1000.00000 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.55893e-16 (1.00)	3.55892e-16 (1.00)
Formation of rad11	2.62555e-16 (0.738)	2.62554e-16 (0.738)
Formation of rad6	7.62093e-17 (0.214)	7.62091e-17 (0.214)
H-abstraction	1.71289e-17 (0.0481)	1.71289e-17 (0.0481)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.711534	0.711534	0.711537	0.711537
rad11	0.203203	0.914737	0.203204	0.914741
Benzene+2-propynyl	0.0481294	0.962867	0.0481295	0.962870
Indene+H	0.0235242	0.986391	0.0235242	0.986395
rad22	0.00585510	0.992246	0.00585512	0.992250
rad23	0.00549288	0.997739	0.00549290	0.997743
rad45	0.00100662	0.998745	0.00100662	0.998749
C2H2+PhCH2	0.000820664	0.999566	0.000820667	0.999570
rad7	0.000311264	0.999877	0.000311265	0.999881

rad36	6.55769e-05	0.999943	6.55771e-05	0.999947
PhCHCCH2+H	1.96754e-05	0.999963	1.96754e-05	0.999966
rad18	1.82938e-05	0.999981	1.82938e-05	0.999985
rad20	3.22406e-06	0.999984	3.22407e-06	0.999988
Phenyl+Allene	2.72763e-06	0.999987	0.00000	0.999988
rad25	2.59446e-06	0.999989	2.59446e-06	0.999991
rad21	2.05991e-06	0.999992	2.05992e-06	0.999993
rad9	1.70911e-06	0.999993	1.70911e-06	0.999994
rad13	1.64392e-06	0.999995	1.64393e-06	0.999996
rad3	1.51514e-06	0.999996	1.51515e-06	0.999997
rad2	1.25752e-06	0.999998	1.25752e-06	0.999999
rad4	8.05496e-07	0.999998	8.05498e-07	1.000000
rad28	3.22387e-07	0.999999	3.22388e-07	1.000000
PhCCH+CH3	1.77074e-07	0.999999	1.77074e-07	1.000000
PhCH2CCH+H	1.24114e-07	0.999999	1.24114e-07	1.000000
rad1	9.50029e-08	0.999999	9.50031e-08	1.000000
rad30	6.79401e-08	0.999999	6.79403e-08	1.000000
rad10	5.58787e-08	0.999999	5.58788e-08	1.000000
rad15	1.72261e-08	0.999999	1.72262e-08	1.000000
rad8	3.34799e-09	0.999999	3.34800e-09	1.000000
PhCCCH3+H	2.23069e-09	0.999999	2.23070e-09	1.000000
rad33	2.03316e-09	0.999999	2.03317e-09	1.000000
Ph+MeAc	2.03229e-09	0.999999	2.03229e-09	1.000000
PAH9+H	8.96289e-10	0.999999	8.96292e-10	1.000000
rad38	6.55143e-10	0.999999	6.55145e-10	1.000000
PAH7+H	4.74992e-10	0.999999	4.74993e-10	1.000000
rad26	4.66913e-10	0.999999	4.66913e-10	1.000000
rad35	3.65182e-10	0.999999	3.65183e-10	1.000000
rad14	2.60094e-10	0.999999	2.60095e-10	1.000000
rad60syn	2.94868e-11	0.999999	2.94869e-11	1.000000
rad46	1.75435e-11	0.999999	1.75436e-11	1.000000
rad24	1.29796e-11	0.999999	1.29796e-11	1.000000
rad60anti	1.17082e-11	0.999999	1.17082e-11	1.000000
rad39	3.67852e-12	0.999999	3.67853e-12	1.000000
rad27	3.19545e-12	0.999999	3.19546e-12	1.000000
PAH3+H	1.23956e-12	0.999999	1.23956e-12	1.000000
rad59	3.25524e-13	0.999999	3.25524e-13	1.000000
rad5	4.99780e-14	0.999999	4.99782e-14	1.000000
rad12	4.23204e-14	0.999999	4.23204e-14	1.000000
rad19syn	1.74676e-14	0.999999	1.74677e-14	1.000000
rad50	9.44754e-15	0.999999	9.44757e-15	1.000000
rad37	6.95645e-15	0.999999	6.95648e-15	1.000000
rad31	2.57538e-15	0.999999	2.57539e-15	1.000000
rad54	1.02773e-15	0.999999	1.02773e-15	1.000000
rad70	2.89646e-16	0.999999	2.89647e-16	1.000000
rad62	3.82299e-17	0.999999	3.82300e-17	1.000000
rad52	1.79758e-17	0.999999	1.79759e-17	1.000000
rad43	1.59574e-17	0.999999	1.59574e-17	1.000000
PhcycC3H3_A+H	1.26517e-17	0.999999	1.26518e-17	1.000000
rad55	3.23522e-18	0.999999	3.23523e-18	1.000000
PAH10+CH3	2.26293e-18	0.999999	2.26294e-18	1.000000
rad51	1.98365e-18	0.999999	1.98366e-18	1.000000
rad34	1.25962e-18	0.999999	1.25962e-18	1.000000
rad58	4.74607e-19	0.999999	4.74609e-19	1.000000
rad65	1.84922e-20	0.999999	1.84922e-20	1.000000
PAH1+H	1.17900e-20	0.999999	1.17900e-20	1.000000
rad42	5.88048e-22	0.999999	5.88049e-22	1.000000
rad41	6.29733e-23	0.999999	6.29735e-23	1.000000
rad47	2.17944e-23	0.999999	2.17945e-23	1.000000

1000.00000 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.34395e-16 (1.00)	6.34393e-16 (1.00)
Formation of rad11	4.51153e-16 (0.711)	4.51151e-16 (0.711)
Formation of rad6	1.51589e-16 (0.239)	1.51588e-16 (0.239)
H-abstraction	3.16530e-17 (0.0499)	3.16530e-17 (0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.799466	0.799466	0.799469	0.799469
rad11	0.107329	0.906795	0.107329	0.906797
Benzene+2-propynyl	0.0498949	0.956689	0.0498950	0.956692
Indene+H	0.0296156	0.986305	0.0296157	0.986308
rad23	0.00651478	0.992820	0.00651480	0.992823
rad22	0.00417623	0.996996	0.00417625	0.996999
C2H2+PhCH2	0.00143989	0.998436	0.00143990	0.998439
rad45	0.00108574	0.999522	0.00108575	0.999525
rad7	0.000374174	0.999896	0.000374175	0.999899

rad36	3.70102e-05	0.999933	3.70104e-05	0.999936
PhCHCCH2+H	3.24984e-05	0.999965	3.24985e-05	0.999968
rad18	1.01225e-05	0.999976	1.01225e-05	0.999979
rad2	4.37434e-06	0.999980	4.37436e-06	0.999983
Phenyl+Allene	3.40460e-06	0.999983	0.00000	0.999983
rad9	2.85572e-06	0.999986	2.85573e-06	0.999986
rad3	2.49025e-06	0.999989	2.49025e-06	0.999988
rad20	2.01521e-06	0.999991	2.01522e-06	0.999990
rad13	1.73622e-06	0.999992	1.73623e-06	0.999992
rad25	1.59736e-06	0.999994	1.59737e-06	0.999994
rad21	1.36396e-06	0.999995	1.36396e-06	0.999995
rad4	1.23902e-06	0.999997	1.23903e-06	0.999996
PhCCH+CH3	1.16844e-06	0.999998	1.16845e-06	0.999997
rad28	1.08226e-06	0.999999	1.08227e-06	0.999998
rad1	3.29746e-07	0.999999	3.29748e-07	0.999999
PhCH2CCH+H	3.18397e-07	1.000000	3.18399e-07	0.999999
rad10	2.88562e-07	1.000000	2.88563e-07	0.999999
rad30	1.00574e-07	1.000000	1.00574e-07	1.000000
PhCCCH3+H	5.07243e-08	1.000000	5.07245e-08	1.000000
Ph+MeAc	3.80557e-08	1.000000	3.80559e-08	1.000000
rad26	1.00219e-08	1.000000	1.00219e-08	1.000000
PAH9+H	6.59828e-09	1.000000	6.59831e-09	1.000000
rad15	4.10864e-09	1.000000	4.10866e-09	1.000000
rad38	2.75550e-09	1.000000	2.75551e-09	1.000000
rad33	2.48179e-09	1.000000	2.48180e-09	1.000000
rad35	2.15785e-09	1.000000	2.15786e-09	1.000000
PAH7+H	1.60205e-09	1.000000	1.60205e-09	1.000000
rad19anti	1.15845e-09	1.000000	1.15845e-09	1.000000
rad14	4.62995e-10	1.000000	4.62997e-10	1.000000
rad46	1.11600e-10	1.000000	1.11600e-10	1.000000
rad39	1.03930e-10	1.000000	1.03931e-10	1.000000
rad60syn	5.77585e-11	1.000000	5.77587e-11	1.000000
rad60anti	2.39257e-11	1.000000	2.39257e-11	1.000000
rad24	1.71467e-11	1.000000	1.71468e-11	1.000000
rad27	1.13928e-11	1.000000	1.13929e-11	1.000000
PAH3+H	4.07949e-12	1.000000	4.07950e-12	1.000000
rad37	2.44930e-12	1.000000	2.44930e-12	1.000000
rad59	8.69446e-13	1.000000	8.69450e-13	1.000000
rad5	4.61581e-13	1.000000	4.61582e-13	1.000000
rad19syn	4.17111e-13	1.000000	4.17113e-13	1.000000
rad50	2.84824e-13	1.000000	2.84825e-13	1.000000
rad54	3.84102e-14	1.000000	3.84103e-14	1.000000
rad12	3.57234e-14	1.000000	3.57235e-14	1.000000
rad31	1.40766e-14	1.000000	1.40766e-14	1.000000
PAH10+CH3	8.98250e-15	1.000000	8.98253e-15	1.000000
rad67	6.86701e-15	1.000000	6.86704e-15	1.000000
rad43	4.26298e-15	1.000000	4.26300e-15	1.000000
rad62	2.54704e-15	1.000000	2.54705e-15	1.000000
PhcycC3H3_A+H	2.27911e-15	1.000000	2.27912e-15	1.000000
rad70	2.25494e-15	1.000000	2.25495e-15	1.000000
rad52	1.89022e-15	1.000000	1.89022e-15	1.000000
rad51	6.70835e-16	1.000000	6.70838e-16	1.000000
rad55	3.32485e-16	1.000000	3.32485e-16	1.000000
PAH1+H	8.08704e-17	1.000000	8.08707e-17	1.000000
rad34	2.96394e-17	1.000000	2.96395e-17	1.000000
rad65	1.48843e-17	1.000000	1.48844e-17	1.000000
rad58	4.28801e-18	1.000000	4.28803e-18	1.000000
rad42	1.13064e-18	1.000000	1.13065e-18	1.000000
rad41	9.70437e-19	1.000000	9.70437e-19	1.000000
rad53	1.12895e-19	1.000000	1.12895e-19	1.000000
rad64	2.82182e-20	1.000000	2.82183e-20	1.000000
rad56	2.62866e-21	1.000000	2.62866e-21	1.000000
rad47	1.37361e-21	1.000000	1.37361e-21	1.000000
rad61	5.71963e-22	1.000000	5.71966e-22	1.000000
rad68syn	2.77609e-22	1.000000	2.77610e-22	1.000000
rad68anti	1.99009e-22	1.000000	1.99010e-22	1.000000
rad73	5.31957e-23	1.000000	5.31959e-23	1.000000
rad40syn	3.51372e-24	1.000000	3.51374e-24	1.000000
rad71	3.02932e-24	1.000000	3.02933e-24	1.000000
PAH8+H	2.20441e-24	1.000000	2.20441e-24	1.000000
rad40anti	1.40440e-24	1.000000	1.40441e-24	1.000000
rad72	1.15456e-29	1.000000	1.15456e-29	1.000000
rad8	3.91236e-35	1.000000	3.91237e-35	1.000000

1000.00000 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.11288e-15 (1.00)	5.11274e-15 (1.00)
Formation of rad11	3.08094e-15 (0.603)	3.08085e-15 (0.603)

Formation of rad6	1.54092e-15 (0.301)	1.54087e-15 (0.301)
H-abstraction	4.91025e-16 (0.0960)	4.91025e-16 (0.0960)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.828378	0.828378	0.828400	0.828400
Benzene+2-propynyl	0.0960368	0.924415	0.0960394	0.924440
Indene+H	0.0370310	0.961446	0.0370320	0.961472
rad11	0.0260231	0.987469	0.0260238	0.987496
rad23	0.00642131	0.993891	0.00642148	0.993917
C2H2+PhCH2	0.00307508	0.996966	0.00307517	0.996992
rad22	0.00134847	0.998314	0.00134850	0.998341
rad45	0.000985465	0.999300	0.000985489	0.999326
rad7	0.000418526	0.999718	0.000418537	0.999745
PhCHCCH2+H	0.000123678	0.999842	0.000123682	0.999868
rad36	3.77599e-05	0.999880	3.77610e-05	0.999906
Phenyl+Allene	2.72075e-05	0.999907	0.000000	0.999906
rad2	2.38629e-05	0.999931	2.38636e-05	0.999930
PhCCH+CH3	2.27852e-05	0.999953	2.27859e-05	0.999953
rad28	1.02525e-05	0.999964	1.02527e-05	0.999963
rad9	9.60009e-06	0.999973	9.60033e-06	0.999973
rad3	4.67956e-06	0.999978	4.67969e-06	0.999977
PhCH2CCH+H	4.66303e-06	0.999983	4.66316e-06	0.999982
PhCCCH3+H	2.48918e-06	0.999985	2.48925e-06	0.999984
rad4	2.46545e-06	0.999988	2.46552e-06	0.999987
rad1	2.22145e-06	0.999990	2.22151e-06	0.999989
rad10	2.21119e-06	0.999992	2.21125e-06	0.999991
rad18	2.20083e-06	0.999994	2.20089e-06	0.999994
Ph+MeAc	2.18285e-06	0.999996	2.18292e-06	0.999996
rad13	1.77209e-06	0.999998	1.77213e-06	0.999998
rad20	4.89770e-07	0.999999	4.89783e-07	0.999998
rad25	4.56875e-07	0.999999	4.56887e-07	0.999998
rad21	3.37183e-07	0.999999	3.37192e-07	0.999999
rad26	3.36810e-07	1.000000	3.36819e-07	0.999999
rad30	2.82253e-07	1.000000	2.82262e-07	0.999999
PAH9+H	1.12135e-07	1.000000	1.12138e-07	1.000000
PAH7+H	7.73066e-08	1.000000	7.73087e-08	1.000000
rad38	4.14095e-08	1.000000	4.14106e-08	1.000000
rad35	3.11496e-08	1.000000	3.11504e-08	1.000000
rad19anti	2.62477e-08	1.000000	2.62483e-08	1.000000
rad39	1.44693e-08	1.000000	1.44697e-08	1.000000
rad15	1.34160e-08	1.000000	1.34164e-08	1.000000
rad46	3.17283e-09	1.000000	3.17292e-09	1.000000
rad33	2.82383e-09	1.000000	2.82390e-09	1.000000
rad14	9.72899e-10	1.000000	9.72924e-10	1.000000
rad37	5.51249e-10	1.000000	5.51264e-10	1.000000
rad60syn	4.60718e-10	1.000000	4.60730e-10	1.000000
rad60anti	2.11880e-10	1.000000	2.11886e-10	1.000000
PAH3+H	1.17489e-10	1.000000	1.17491e-10	1.000000
rad19syn	6.83512e-11	1.000000	6.83531e-11	1.000000
rad27	6.30080e-11	1.000000	6.30098e-11	1.000000
rad50	5.70006e-11	1.000000	5.70021e-11	1.000000
rad59	2.25302e-11	1.000000	2.25308e-11	1.000000
rad24	2.07480e-11	1.000000	2.07486e-11	1.000000
rad5	1.02068e-11	1.000000	1.02071e-11	1.000000
rad54	9.26508e-12	1.000000	9.26533e-12	1.000000
PAH10+CH3	4.97349e-12	1.000000	4.97363e-12	1.000000
rad67	1.14778e-12	1.000000	1.14781e-12	1.000000
rad43	1.11670e-12	1.000000	1.11673e-12	1.000000
PhcycC3H3_A+H	1.11366e-12	1.000000	1.11369e-12	1.000000
rad52	1.05964e-12	1.000000	1.05967e-12	1.000000
rad70	9.14124e-13	1.000000	9.14148e-13	1.000000
rad51	8.90185e-13	1.000000	8.90209e-13	1.000000
rad62	6.03435e-13	1.000000	6.03452e-13	1.000000
rad31	3.69761e-13	1.000000	3.69771e-13	1.000000
rad12	1.89920e-13	1.000000	1.89926e-13	1.000000
rad55	1.42673e-13	1.000000	1.42678e-13	1.000000
PAH1+H	8.49656e-14	1.000000	8.49679e-14	1.000000
rad34	2.66267e-14	1.000000	2.66274e-14	1.000000
rad65	2.51043e-14	1.000000	2.51050e-14	1.000000
rad58	2.89823e-15	1.000000	2.89831e-15	1.000000
rad41	8.86559e-16	1.000000	8.86584e-16	1.000000
rad42	8.63138e-16	1.000000	8.63162e-16	1.000000
rad53	1.99481e-16	1.000000	1.99487e-16	1.000000
rad64	6.86665e-17	1.000000	6.86684e-17	1.000000
rad73	2.19799e-17	1.000000	2.19805e-17	1.000000
rad56	1.21095e-17	1.000000	1.21098e-17	1.000000
rad71	5.62816e-18	1.000000	5.62831e-18	1.000000
rad61	2.85401e-18	1.000000	2.85409e-18	1.000000
rad68syn	1.58027e-18	1.000000	1.58032e-18	1.000000

rad68anti	1.10773e-18	1.00000	1.10777e-18	1.000000
rad47	6.49426e-19	1.00000	6.49443e-19	1.000000
PAH8+H	1.57855e-19	1.00000	1.57859e-19	1.000000
rad40syn	7.74889e-20	1.00000	7.74910e-20	1.000000
rad40anti	3.84345e-20	1.00000	3.84356e-20	1.000000
rad72	3.28077e-21	1.00000	3.28086e-21	1.000000
rad8	1.16185e-32	1.00000	1.16189e-32	1.000000

1000.00000 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.11551e-14 (1.00)	2.11514e-14 (1.00)
Formation of rad11	1.10850e-14 (0.524)	1.10828e-14 (0.524)
Formation of rad6	7.08033e-15 (0.335)	7.07891e-15 (0.335)
H-abstraction	2.98976e-15 (0.141)	2.98976e-15 (0.141)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.797399	0.797399	0.797537	0.797537
Benzene+2-propynyl	0.141326	0.938725	0.141350	0.938887
Indene+H	0.0431322	0.981857	0.0431396	0.982027
C2H2+PhCH2	0.00606592	0.987923	0.00606697	0.988094
rad11	0.00531282	0.993236	0.00531374	0.993408
rad23	0.00405046	0.997286	0.00405116	0.997459
rad45	0.000807520	0.998094	0.000807659	0.998266
PhCHCCH2+H	0.000438461	0.998532	0.000438537	0.998705
rad7	0.000407894	0.998940	0.000407964	0.999113
rad22	0.000320473	0.999261	0.000320528	0.999433
PhCCH+CH3	0.000244646	0.999505	0.000244688	0.999678
Phenyl+Allene	0.000172634	0.999678	0.000000	0.999678
rad28	6.62526e-05	0.999744	6.62640e-05	0.999744
rad2	5.35990e-05	0.999798	5.36083e-05	0.999798
PhCH2CCH+H	4.11487e-05	0.999839	4.11559e-05	0.999839
rad36	3.75585e-05	0.999877	3.75650e-05	0.999877
Ph+MeAc	3.56170e-05	0.999912	3.56231e-05	0.999912
PhCCCH3+H	3.21076e-05	0.999944	3.21132e-05	0.999944
rad9	2.02031e-05	0.999964	2.02066e-05	0.999965
rad3	7.35047e-06	0.999972	7.35173e-06	0.999972
rad1	6.40198e-06	0.999978	6.40309e-06	0.999978
rad10	5.03990e-06	0.999983	5.04077e-06	0.999983
rad4	4.13928e-06	0.999987	4.14000e-06	0.999988
PAH7+H	3.10823e-06	0.999991	3.10877e-06	0.999991
rad26	2.25512e-06	0.999993	2.25551e-06	0.999993
rad13	1.81508e-06	0.999995	1.81539e-06	0.999995
PAH9+H	1.39957e-06	0.999996	1.39981e-06	0.999996
rad30	7.17787e-07	0.999997	7.17911e-07	0.999997
rad39	7.17676e-07	0.999997	7.17800e-07	0.999998
rad38	5.38412e-07	0.999998	5.38505e-07	0.999998
rad18	4.61301e-07	0.999998	4.61381e-07	0.999999
rad19anti	3.49998e-07	0.999999	3.50059e-07	0.999999
rad35	3.21409e-07	0.999999	3.21464e-07	0.999999
rad20	1.33830e-07	0.999999	1.33852e-07	0.999999
rad25	1.11726e-07	0.999999	1.11746e-07	1.000000
rad21	9.62685e-08	0.999999	9.62847e-08	1.000000
rad46	7.39292e-08	1.000000	7.39419e-08	1.000000
rad15	2.78262e-08	1.000000	2.78310e-08	1.000000
rad37	1.94649e-08	1.000000	1.94682e-08	1.000000
rad50	7.58118e-09	1.000000	7.58250e-09	1.000000
rad19syn	4.26035e-09	1.000000	4.26108e-09	1.000000
rad33	3.54769e-09	1.000000	3.54830e-09	1.000000
rad60syn	2.79435e-09	1.000000	2.79483e-09	1.000000
PAH3+H	1.95530e-09	1.000000	1.95564e-09	1.000000
rad60anti	1.38756e-09	1.000000	1.38780e-09	1.000000
rad14	1.34689e-09	1.000000	1.34712e-09	1.000000
rad54	7.70964e-10	1.000000	7.71098e-10	1.000000
rad51	5.73235e-10	1.000000	5.73334e-10	1.000000
PAH10+CH3	4.69823e-10	1.000000	4.69904e-10	1.000000
rad59	3.30032e-10	1.000000	3.30089e-10	1.000000
rad52	3.24387e-10	1.000000	3.24443e-10	1.000000
PhcycC3H3_A+H	1.67543e-10	1.000000	1.67572e-10	1.000000
rad27	1.35147e-10	1.000000	1.35170e-10	1.000000
rad67	7.17427e-11	1.000000	7.17551e-11	1.000000
rad70	6.74760e-11	1.000000	6.74876e-11	1.000000
rad43	5.83777e-11	1.000000	5.83878e-11	1.000000
rad5	3.93223e-11	1.000000	3.93292e-11	1.000000
rad62	3.86919e-11	1.000000	3.86986e-11	1.000000
PAH1+H	2.76740e-11	1.000000	2.76788e-11	1.000000
rad24	2.68772e-11	1.000000	2.68818e-11	1.000000
rad55	1.82106e-11	1.000000	1.82138e-11	1.000000

rad65	1.69285e-11	1.000000	1.69315e-11	1.000000
rad31	1.22766e-11	1.000000	1.22788e-11	1.000000
rad34	3.76233e-12	1.000000	3.76298e-12	1.000000
rad73	1.08208e-12	1.000000	1.08226e-12	1.000000
rad12	1.01021e-12	1.000000	1.01039e-12	1.000000
rad71	8.53543e-13	1.000000	8.53690e-13	1.000000
rad58	8.00533e-13	1.000000	8.00671e-13	1.000000
rad41	1.63316e-13	1.000000	1.63344e-13	1.000000
rad42	1.55621e-13	1.000000	1.55647e-13	1.000000
rad53	1.47588e-13	1.000000	1.47614e-13	1.000000
rad64	1.12867e-13	1.000000	1.12887e-13	1.000000
rad56	5.10873e-14	1.000000	5.10962e-14	1.000000
rad61	1.07017e-14	1.000000	1.07036e-14	1.000000
PAH8+H	1.03610e-14	1.000000	1.03628e-14	1.000000
rad72	9.63055e-15	1.000000	9.63225e-15	1.000000
rad68syn	8.41241e-15	1.000000	8.41387e-15	1.000000
rad68anti	5.59821e-15	1.000000	5.59918e-15	1.000000
rad40syn	1.80424e-15	1.000000	1.80455e-15	1.000000
rad40anti	9.74527e-16	1.000000	9.74688e-16	1.000000
rad47	3.26013e-16	1.000000	3.26069e-16	1.000000
rad8	2.96970e-29	1.000000	2.97022e-29	1.000000

1000.00000 Pa, 600.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	6.08120e-14	(1.00)	6.07463e-14	(1.00)
Formation of rad11	2.83304e-14	(0.466)	2.82930e-14	(0.466)
Formation of rad6	2.13840e-14	(0.352)	2.13558e-14	(0.352)
H-abstraction	1.10975e-14	(0.182)	1.10975e-14	(0.183)

species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.742656	0.742656	0.743460	0.743460
Benzene+2-propynyl	0.182488	0.925145	0.182686	0.926146
Indene+H	0.0529180	0.978063	0.0529753	0.979121
C2H2+PhCH2	0.0124037	0.990466	0.0124171	0.991538
rad23	0.00195676	0.992423	0.00195887	0.993497
PhCHCCH2+H	0.00156440	0.993987	0.00156610	0.995063
PhCCH+CH3	0.00155577	0.995543	0.00155745	0.996621
rad11	0.00116517	0.996708	0.00116643	0.997787
Phenyl+Allene	0.00108045	0.997789	0.000000	0.997787
rad45	0.000539486	0.998328	0.000540070	0.998327
rad7	0.000382344	0.998711	0.000382757	0.998710
PhCH2CCH+H	0.000287756	0.998998	0.000288067	0.998998
Ph+MeAc	0.000240843	0.999239	0.000241104	0.999239
rad28	0.000237853	0.999477	0.000238110	0.999477
PhCCCH3+H	0.000168535	0.999646	0.000168717	0.999646
rad2	8.53580e-05	0.999731	8.54510e-05	0.999731
rad22	7.18372e-05	0.999803	7.19149e-05	0.999803
PAH7+H	5.01250e-05	0.999853	5.01792e-05	0.999853
rad36	3.18038e-05	0.999885	3.18382e-05	0.999885
rad9	2.85092e-05	0.999913	2.85400e-05	0.999914
PAH9+H	1.43928e-05	0.999928	1.44084e-05	0.999928
rad1	1.26327e-05	0.999940	1.26463e-05	0.999941
rad39	1.19301e-05	0.999952	1.19430e-05	0.999953
rad3	1.13986e-05	0.999964	1.14109e-05	0.999964
rad4	6.94568e-06	0.999971	6.95319e-06	0.999971
rad38	6.14861e-06	0.999977	6.15526e-06	0.999977
rad10	5.33740e-06	0.999982	5.34318e-06	0.999983
rad26	5.12954e-06	0.999987	5.13509e-06	0.999988
rad19anti	2.80323e-06	0.999990	2.80626e-06	0.999991
rad35	2.64511e-06	0.999993	2.64798e-06	0.999993
rad13	2.04233e-06	0.999995	2.04454e-06	0.999995
rad30	1.88153e-06	0.999997	1.88357e-06	0.999997
rad46	1.44098e-06	0.999998	1.44254e-06	0.999999
rad50	6.55476e-07	0.999999	6.56185e-07	0.999999
rad37	1.98607e-07	0.999999	1.98822e-07	1.000000
rad51	1.41127e-07	0.999999	1.41279e-07	1.000000
rad18	1.26508e-07	0.999999	1.26644e-07	1.000000
rad19syn	1.01275e-07	0.999999	1.01385e-07	1.000000
rad20	6.15922e-08	0.999999	6.16588e-08	1.000000
rad21	4.86437e-08	0.999999	4.86963e-08	1.000000
rad52	4.83320e-08	0.999999	4.83844e-08	1.000000
PAH3+H	3.85552e-08	0.999999	3.85969e-08	1.000000
rad15	3.72053e-08	0.999999	3.72455e-08	1.000000
rad25	3.19650e-08	0.999999	3.19997e-08	1.000000
rad54	2.22138e-08	0.999999	2.22378e-08	1.000000
PAH10+CH3	2.10177e-08	1.000000	2.10405e-08	1.000000
rad60syn	1.64987e-08	1.000000	1.65165e-08	1.000000

rad60anti	8.81686e-09	1.000000	8.82634e-09	1.00000
PhcycC3H3_A+H	7.62175e-09	1.000000	7.63000e-09	1.00000
rad33	5.76056e-09	1.000000	5.76680e-09	1.00000
PAH1+H	5.15777e-09	1.000000	5.16335e-09	1.00000
rad59	4.96693e-09	1.000000	4.97231e-09	1.00000
rad65	3.86412e-09	1.000000	3.86831e-09	1.00000
rad67	2.98781e-09	1.000000	2.99104e-09	1.00000
rad71	2.78473e-09	1.000000	2.78774e-09	1.00000
rad70	2.25017e-09	1.000000	2.25261e-09	1.00000
rad73	2.19623e-09	1.000000	2.19860e-09	1.00000
rad14	1.61140e-09	1.000000	1.61313e-09	1.00000
rad43	1.12553e-09	1.000000	1.12675e-09	1.00000
rad62	9.40907e-10	1.000000	9.41930e-10	1.00000
rad55	6.96086e-10	1.000000	6.96839e-10	1.00000
rad34	2.65888e-10	1.000000	2.66176e-10	1.00000
rad58	1.75864e-10	1.000000	1.76054e-10	1.00000
rad27	1.65447e-10	1.000000	1.65626e-10	1.00000
rad31	1.39351e-10	1.000000	1.39502e-10	1.00000
rad72	7.89098e-11	1.000000	7.89952e-11	1.00000
rad64	7.39089e-11	1.000000	7.39888e-11	1.00000
rad24	5.72619e-11	1.000000	5.73238e-11	1.00000
rad5	5.57392e-11	1.000000	5.57994e-11	1.00000
PAH8+H	3.22881e-11	1.000000	3.23231e-11	1.00000
rad53	2.29069e-11	1.000000	2.29317e-11	1.00000
rad56	1.73013e-11	1.000000	1.73200e-11	1.00000
rad61	1.53990e-11	1.000000	1.54156e-11	1.00000
rad41	1.22529e-11	1.000000	1.22662e-11	1.00000
rad42	1.14236e-11	1.000000	1.14359e-11	1.00000
rad68syn	1.04109e-11	1.000000	1.04222e-11	1.00000
rad12	7.62983e-12	1.000000	7.63808e-12	1.00000
rad68anti	6.78254e-12	1.000000	6.78988e-12	1.00000
rad40syn	3.96777e-12	1.000000	3.97206e-12	1.00000
rad40anti	2.40326e-12	1.000000	2.40586e-12	1.00000
rad47	1.24391e-13	1.000000	1.24525e-13	1.00000
rad8	4.14383e-25	1.000000	4.14831e-25	1.00000

1000.00000 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.39564e-13 (1.00)	1.38786e-13 (1.00)
Formation of rad11	5.88273e-14 (0.422)	5.84078e-14 (0.421)
Formation of rad6	5.01684e-14 (0.359)	4.98106e-14 (0.359)
H-abstraction	3.05678e-14 (0.219)	3.05678e-14 (0.220)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.655157	0.655157	0.658826	0.658826
Benzene+2-propynyl	0.219024	0.874182	0.220251	0.879077
Indene+H	0.0751652	0.949347	0.0755861	0.954663
C2H2+PhCH2	0.0272410	0.976588	0.0273935	0.982057
PhCCH+CH3	0.00628974	0.982878	0.00632496	0.988382
Phenyl+Allene	0.00556917	0.988447	0.000000	0.988382
PhCHCCH2+H	0.00523218	0.993679	0.00526147	0.993643
PhCH2CCH+H	0.00153153	0.995210	0.00154011	0.995183
Ph+MeAc	0.000960296	0.996171	0.000965672	0.996149
rad23	0.000914827	0.997086	0.000919948	0.997069
PhCCCH3+H	0.000534476	0.997620	0.000537470	0.997607
rad28	0.000477356	0.998097	0.000480029	0.998087
rad11	0.000385373	0.998483	0.000387531	0.998474
PAH7+H	0.000348475	0.998831	0.000350427	0.998824
rad7	0.000348331	0.999180	0.000350282	0.999175
rad45	0.000299535	0.999479	0.000301212	0.999476
rad2	0.000102414	0.999582	0.000102988	0.999579
PAH9+H	9.21700e-05	0.999674	9.26864e-05	0.999672
rad39	8.36511e-05	0.999757	8.41193e-05	0.999756
rad38	4.22266e-05	0.999800	4.24630e-05	0.999798
rad9	4.05084e-05	0.999840	4.07353e-05	0.999839
rad36	2.12885e-05	0.999861	2.14078e-05	0.999860
rad22	2.10398e-05	0.999882	2.11576e-05	0.999882
rad1	1.78433e-05	0.999900	1.79432e-05	0.999899
rad19anti	1.49714e-05	0.999915	1.50552e-05	0.999915
rad35	1.46837e-05	0.999930	1.47660e-05	0.999929
rad46	1.27735e-05	0.999943	1.28450e-05	0.999942
rad3	1.21137e-05	0.999955	1.21816e-05	0.999954
rad50	1.00581e-05	0.999965	1.01144e-05	0.999964
rad4	8.00937e-06	0.999973	8.05418e-06	0.999973
rad26	7.01771e-06	0.999980	7.05702e-06	0.999980
rad30	5.15300e-06	0.999985	5.18186e-06	0.999985
rad10	4.33078e-06	0.999989	4.35504e-06	0.999989

rad51	2.82048e-06	0.999992	2.83627e-06	0.999992
rad13	2.71601e-06	0.999995	2.73121e-06	0.999995
rad19syn	1.02259e-06	0.999996	1.02832e-06	0.999996
rad37	1.01060e-06	0.999997	1.01626e-06	0.999997
rad52	8.52466e-07	0.999998	8.57241e-07	0.999998
PAH3+H	4.40781e-07	0.999998	4.43250e-07	0.999998
PAH10+CH3	3.44346e-07	0.999999	3.46275e-07	0.999998
rad54	2.51556e-07	0.999999	2.52965e-07	0.999999
PAH1+H	1.16489e-07	0.999999	1.17142e-07	0.999999
PhcycC3H3_A+H	1.07798e-07	0.999999	1.08402e-07	0.999999
rad71	8.88766e-08	0.999999	8.93741e-08	0.999999
rad60syn	8.74537e-08	0.999999	8.79432e-08	0.999999
rad20	8.05202e-08	0.999999	8.09715e-08	0.999999
rad21	7.54950e-08	0.999999	7.59178e-08	0.999999
rad65	7.48639e-08	0.999999	7.52831e-08	0.999999
rad18	7.29848e-08	1.000000	7.33936e-08	0.999999
rad73	6.50249e-08	1.000000	6.53891e-08	0.999999
rad60anti	4.94371e-08	1.000000	4.97140e-08	0.999999
rad67	4.93922e-08	1.000000	4.96688e-08	0.999999
rad59	4.83407e-08	1.000000	4.86114e-08	1.000000
rad15	3.63756e-08	1.000000	3.65793e-08	1.000000
rad70	3.15998e-08	1.000000	3.17767e-08	1.000000
rad25	1.57931e-08	1.000000	1.58815e-08	1.000000
rad33	1.43277e-08	1.000000	1.44080e-08	1.000000
rad43	1.19544e-08	1.000000	1.20213e-08	1.000000
rad62	1.12059e-08	1.000000	1.12686e-08	1.000000
rad55	9.13109e-09	1.000000	9.18225e-09	1.000000
rad34	5.12259e-09	1.000000	5.15128e-09	1.000000
rad58	3.54739e-09	1.000000	3.56726e-09	1.000000
rad72	2.86590e-09	1.000000	2.88195e-09	1.000000
rad64	1.90110e-09	1.000000	1.91174e-09	1.000000
rad14	1.82609e-09	1.000000	1.83632e-09	1.000000
PAH8+H	1.15089e-09	1.000000	1.15733e-09	1.000000
rad24	5.39034e-10	1.000000	5.42053e-10	1.000000
rad61	4.83984e-10	1.000000	4.86694e-10	1.000000
rad31	4.68045e-10	1.000000	4.70667e-10	1.000000
rad53	4.01257e-10	1.000000	4.03504e-10	1.000000
rad41	3.95796e-10	1.000000	3.98013e-10	1.000000
rad42	3.36919e-10	1.000000	3.38806e-10	1.000000
rad56	3.19232e-10	1.000000	3.21020e-10	1.000000
rad68syn	3.06299e-10	1.000000	3.08015e-10	1.000000
rad27	2.03622e-10	1.000000	2.04763e-10	1.000000
rad68anti	1.99069e-10	1.000000	2.00183e-10	1.000000
rad40syn	1.43521e-10	1.000000	1.44325e-10	1.000000
rad12	1.21731e-10	1.000000	1.22413e-10	1.000000
rad40anti	9.50557e-11	1.000000	9.55879e-11	1.000000
rad5	5.41026e-11	1.000000	5.44055e-11	1.000000
rad47	1.22087e-11	1.000000	1.22771e-11	1.000000
rad8	1.31462e-20	1.000000	1.32199e-20	1.000000

1000.00000 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.75392e-13 (1.00)	2.70089e-13 (1.00)
Formation of rad11	1.06471e-13 (0.387)	1.03732e-13 (0.384)
Formation of rad6	9.97133e-14 (0.362)	9.71485e-14 (0.360)
H-abstraction	6.92082e-14 (0.251)	6.92082e-14 (0.256)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.521639	0.521639	0.531882	0.531882
Benzene+2-propynyl	0.251308	0.772947	0.256242	0.788124
Indene+H	0.110902	0.883849	0.113079	0.901204
C2H2+PhCH2	0.0538573	0.937706	0.0549148	0.956119
Phenyl+Allene	0.0192573	0.956963	0.000000	0.956119
PhCCH+CH3	0.0161908	0.973154	0.0165087	0.972627
PhCHCCH2+H	0.0136692	0.986823	0.0139376	0.986565
PhCH2CCH+H	0.00545785	0.992281	0.00556503	0.992130
Ph+MeAc	0.00239821	0.994679	0.00244530	0.994575
PAH7+H	0.00123960	0.995919	0.00126394	0.995839
PhCCCH3+H	0.00110414	0.997023	0.00112582	0.996965
rad28	0.000595593	0.997619	0.000607287	0.997572
rad23	0.000506734	0.998125	0.000516685	0.998089
rad7	0.000308836	0.998434	0.000314900	0.998404
rad39	0.000293798	0.998728	0.000299567	0.998703
PAH9+H	0.000261496	0.998990	0.000266630	0.998970
rad11	0.000234600	0.999224	0.000239207	0.999209
rad45	0.000207527	0.999432	0.000211602	0.999421
rad38	0.000122624	0.999554	0.000125032	0.999546

rad2	8.04178e-05	0.999635	8.19971e-05	0.999628
rad9	7.78962e-05	0.999713	7.94259e-05	0.999707
rad19anti	5.26988e-05	0.999765	5.37336e-05	0.999761
rad46	4.00791e-05	0.999805	4.08661e-05	0.999802
rad35	3.97548e-05	0.999845	4.05355e-05	0.999842
rad50	3.70827e-05	0.999882	3.78109e-05	0.999880
rad36	1.69396e-05	0.999899	1.72722e-05	0.999898
rad1	1.51909e-05	0.999914	1.54891e-05	0.999913
rad30	1.18101e-05	0.999926	1.20420e-05	0.999925
rad22	1.14451e-05	0.999938	1.16699e-05	0.999937
rad51	1.11938e-05	0.999949	1.14136e-05	0.999948
rad3	9.44663e-06	0.999958	9.63211e-06	0.999958
rad26	6.93963e-06	0.999965	7.07590e-06	0.999965
rad4	6.58970e-06	0.999972	6.71909e-06	0.999972
rad19syn	5.24240e-06	0.999977	5.34534e-06	0.999977
rad13	4.60033e-06	0.999982	4.69066e-06	0.999982
rad52	3.26292e-06	0.999985	3.32698e-06	0.999985
rad10	2.97640e-06	0.999988	3.03485e-06	0.999988
rad37	2.85024e-06	0.999991	2.90621e-06	0.999991
PAH3+H	1.67402e-06	0.999992	1.70689e-06	0.999993
PAH10+CH3	1.48046e-06	0.999994	1.50953e-06	0.999994
rad54	1.39738e-06	0.999995	1.42482e-06	0.999996
PhcycC3H3_A+H	6.73781e-07	0.999996	6.87011e-07	0.999996
PAH1+H	5.45335e-07	0.999997	5.56042e-07	0.999997
rad71	4.04524e-07	0.999997	4.12466e-07	0.999997
rad21	3.59153e-07	0.999997	3.66206e-07	0.999998
rad20	3.04695e-07	0.999998	3.10678e-07	0.999998
rad67	2.94575e-07	0.999998	3.00359e-07	0.999998
rad65	2.94042e-07	0.999998	2.99815e-07	0.999998
rad73	2.89420e-07	0.999998	2.95104e-07	0.999999
rad60syn	2.78867e-07	0.999999	2.84342e-07	0.999999
rad59	1.79500e-07	0.999999	1.83024e-07	0.999999
rad70	1.64966e-07	0.999999	1.68205e-07	0.999999
rad60anti	1.60755e-07	0.999999	1.63912e-07	1.000000
rad18	1.15536e-07	0.999999	1.17805e-07	1.000000
rad33	6.29268e-08	0.999999	6.41623e-08	1.000000
rad62	5.69101e-08	0.999999	5.80275e-08	1.000000
rad55	5.55584e-08	1.000000	5.66494e-08	1.000000
rad43	5.36531e-08	1.000000	5.47066e-08	1.000000
rad15	3.86706e-08	1.000000	3.94299e-08	1.000000
rad34	2.62706e-08	1.000000	2.67865e-08	1.000000
rad25	1.80795e-08	1.000000	1.84345e-08	1.000000
rad58	1.43481e-08	1.000000	1.46298e-08	1.000000
rad72	1.35586e-08	1.000000	1.38248e-08	1.000000
rad24	9.48159e-09	1.000000	9.66774e-09	1.000000
rad64	8.43312e-09	1.000000	8.59866e-09	1.000000
PAH8+H	6.01928e-09	1.000000	6.13747e-09	1.000000
rad41	2.76810e-09	1.000000	2.82246e-09	1.000000
rad12	2.54668e-09	1.000000	2.59670e-09	1.000000
rad61	2.40947e-09	1.000000	2.45679e-09	1.000000
rad14	2.37276e-09	1.000000	2.41935e-09	1.000000
rad42	2.35391e-09	1.000000	2.40013e-09	1.000000
rad53	2.27126e-09	1.000000	2.31586e-09	1.000000
rad56	1.46634e-09	1.000000	1.49512e-09	1.000000
rad68syn	1.39315e-09	1.000000	1.42051e-09	1.000000
rad68anti	9.05506e-10	1.000000	9.23286e-10	1.000000
rad31	8.03347e-10	1.000000	8.19115e-10	1.000000
rad40syn	7.98113e-10	1.000000	8.13790e-10	1.000000
rad40anti	5.75454e-10	1.000000	5.86753e-10	1.000000
rad27	3.00511e-10	1.000000	3.06412e-10	1.000000
rad47	1.04039e-10	1.000000	1.06082e-10	1.000000
rad5	4.49756e-11	1.000000	4.58587e-11	1.000000
rad8	1.95367e-16	1.000000	1.99203e-16	1.000000

1000.00000 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.88072e-13 (1.00)	4.65308e-13 (1.00)
Formation of rad11	1.74945e-13 (0.358)	1.63614e-13 (0.352)
Formation of rad6	1.76509e-13 (0.362)	1.65076e-13 (0.355)
H-abstraction	1.36618e-13 (0.280)	1.36618e-13 (0.294)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.354536	0.354536	0.371880	0.371880
Benzene+2-propynyl	0.279914	0.634450	0.293608	0.665488
Indene+H	0.149003	0.783453	0.156293	0.821781
C2H2+PhCH2	0.0871160	0.870569	0.0913782	0.913159
Phenyl+Allene	0.0466409	0.917210	0.000000	0.913159

PhCCH+CH3	0.0296864	0.946896	0.0311388	0.944298
PhCHCCH2+H	0.0272929	0.974189	0.0286282	0.972926
PhCH2CCH+H	0.0136513	0.987840	0.0143191	0.987245
Ph+MeAc	0.00423113	0.992071	0.00443813	0.991683
PAH7+H	0.00283309	0.994905	0.00297169	0.994655
PhCCCH3+H	0.00168013	0.996585	0.00176234	0.996417
rad39	0.000653062	0.997238	0.000685011	0.997102
rad28	0.000517427	0.997755	0.000542741	0.997645
PAH9+H	0.000405568	0.998161	0.000425410	0.998070
rad23	0.000350246	0.998511	0.000367380	0.998438
rad7	0.000267452	0.998778	0.000280537	0.998718
rad11	0.000205675	0.998984	0.000215738	0.998934
rad38	0.000190382	0.999175	0.000199696	0.999134
rad45	0.000178311	0.999353	0.000187035	0.999321
rad19anti	0.000131274	0.999484	0.000137696	0.999458
rad9	0.000119814	0.999604	0.000125676	0.999584
rad46	6.29385e-05	0.999667	6.60176e-05	0.999650
rad35	6.17493e-05	0.999729	6.47702e-05	0.999715
rad50	6.07380e-05	0.999789	6.37094e-05	0.999779
rad2	5.24114e-05	0.999842	5.49755e-05	0.999834
rad30	2.09539e-05	0.999863	2.19790e-05	0.999856
rad51	1.88159e-05	0.999882	1.97363e-05	0.999875
rad19syn	1.70269e-05	0.999899	1.78599e-05	0.999893
rad36	1.58068e-05	0.999914	1.65802e-05	0.999910
rad1	1.08783e-05	0.999925	1.14104e-05	0.999921
rad22	1.01545e-05	0.999935	1.06513e-05	0.999932
rad13	9.92401e-06	0.999945	1.04095e-05	0.999942
rad3	6.80911e-06	0.999952	7.14226e-06	0.999949
rad26	5.55443e-06	0.999958	5.82617e-06	0.999955
rad52	5.41124e-06	0.999963	5.67597e-06	0.999961
rad37	5.40811e-06	0.999968	5.67270e-06	0.999967
rad4	5.02064e-06	0.999974	5.26626e-06	0.999972
rad54	4.86404e-06	0.999978	5.10200e-06	0.999977
PAH3+H	3.30849e-06	0.999982	3.47035e-06	0.999980
PAH10+CH3	2.91088e-06	0.999985	3.05330e-06	0.999983
PhcycC3H3_A+H	2.63894e-06	0.999987	2.76805e-06	0.999986
rad10	2.17078e-06	0.999989	2.27698e-06	0.999988
rad21	1.98040e-06	0.999991	2.07729e-06	0.999991
rad20	1.38022e-06	0.999993	1.44774e-06	0.999992
rad67	1.25739e-06	0.999994	1.31891e-06	0.999993
PAH1+H	1.23948e-06	0.999995	1.30012e-06	0.999995
rad71	7.19974e-07	0.999996	7.55197e-07	0.999995
rad60syn	5.74661e-07	0.999997	6.02775e-07	0.999996
rad70	5.11538e-07	0.999997	5.36563e-07	0.999996
rad73	5.09978e-07	0.999998	5.34927e-07	0.999997
rad65	4.92149e-07	0.999998	5.16226e-07	0.999998
rad59	3.65264e-07	0.999998	3.83133e-07	0.999998
rad33	3.54823e-07	0.999999	3.72182e-07	0.999998
rad60anti	3.32514e-07	0.999999	3.48780e-07	0.999999
rad18	2.80096e-07	0.999999	2.93798e-07	0.999999
rad55	2.09915e-07	1.000000	2.20184e-07	0.999999
rad62	1.42418e-07	1.000000	1.49386e-07	0.999999
rad43	1.11439e-07	1.000000	1.16891e-07	0.999999
rad34	7.53650e-08	1.000000	7.90516e-08	1.000000
rad24	6.02431e-08	1.000000	6.31905e-08	1.000000
rad15	4.30684e-08	1.000000	4.51754e-08	1.000000
rad25	3.89395e-08	1.000000	4.08445e-08	1.000000
rad58	2.54069e-08	1.000000	2.66498e-08	1.000000
rad72	2.45668e-08	1.000000	2.57686e-08	1.000000
rad12	1.86538e-08	1.000000	1.95664e-08	1.000000
rad64	1.64993e-08	1.000000	1.73065e-08	1.000000
PAH8+H	1.21677e-08	1.000000	1.27630e-08	1.000000
rad53	8.81069e-09	1.000000	9.24173e-09	1.000000
rad41	6.62449e-09	1.000000	6.94858e-09	1.000000
rad42	5.34446e-09	1.000000	5.60592e-09	1.000000
rad61	4.76881e-09	1.000000	5.00211e-09	1.000000
rad14	4.66237e-09	1.000000	4.89047e-09	1.000000
rad56	4.30216e-09	1.000000	4.51263e-09	1.000000
rad68syn	2.66725e-09	1.000000	2.79774e-09	1.000000
rad68anti	1.73778e-09	1.000000	1.82280e-09	1.000000
rad40syn	1.70003e-09	1.000000	1.78320e-09	1.000000
rad40anti	1.28676e-09	1.000000	1.34971e-09	1.000000
rad31	1.00839e-09	1.000000	1.05772e-09	1.000000
rad27	7.84707e-10	1.000000	8.23102e-10	1.000000
rad47	2.11937e-10	1.000000	2.22306e-10	1.000000
rad5	3.51181e-11	1.000000	3.68362e-11	1.000000
rad8	2.60404e-13	1.000000	2.73143e-13	1.000000

1000.00000 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.98668e-13 (1.00)	7.31134e-13 (1.00)
Formation of rad11	2.67704e-13 (0.335)	2.35114e-13 (0.322)
Formation of rad6	2.87049e-13 (0.359)	2.52105e-13 (0.345)
H-abstraction	2.43915e-13 (0.305)	2.43915e-13 (0.334)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.305402	0.305402	0.333612	0.333612
rad6	0.203396	0.508798	0.222183	0.555795
Indene+H	0.168669	0.677467	0.184249	0.740044
C2H2+PhCH2	0.112616	0.790083	0.123018	0.863062
Phenyl+Allene	0.0845583	0.874641	0.00000	0.863062
PhCHCCH2+H	0.0425662	0.917207	0.0464979	0.909560
PhCCH+CH3	0.0410667	0.958274	0.0448599	0.954420
PhCH2CCH+H	0.0256414	0.983915	0.0280098	0.982430
Ph+MeAc	0.00568976	0.989605	0.00621531	0.988645
PAH7+H	0.00469074	0.994296	0.00512401	0.993769
PhCCCH3+H	0.00195660	0.996252	0.00213733	0.995906
rad39	0.00104571	0.997298	0.00114230	0.997048
PAH9+H	0.000450280	0.997748	0.000491872	0.997540
rad28	0.000340241	0.998089	0.000371668	0.997912
rad23	0.000258291	0.998347	0.000282149	0.998194
rad7	0.000245267	0.998592	0.000267922	0.998462
rad19anti	0.000238733	0.998831	0.000260784	0.998723
rad11	0.000232649	0.999063	0.000254138	0.998977
rad38	0.000209009	0.999272	0.000228314	0.999205
rad45	0.000151234	0.999424	0.000165203	0.999371
rad9	0.000116468	0.999540	0.000127226	0.999498
rad35	7.05892e-05	0.999611	7.71098e-05	0.999575
rad46	6.76348e-05	0.999678	7.38825e-05	0.999649
rad50	6.40510e-05	0.999742	6.99675e-05	0.999719
rad19syn	3.99692e-05	0.999782	4.36610e-05	0.999762
rad2	3.18486e-05	0.999814	3.47904e-05	0.999797
rad30	2.92190e-05	0.999843	3.19179e-05	0.999829
rad13	2.47745e-05	0.999868	2.70629e-05	0.999856
rad51	1.99009e-05	0.999888	2.17391e-05	0.999878
rad36	1.37585e-05	0.999902	1.50293e-05	0.999893
rad54	1.22011e-05	0.999914	1.33281e-05	0.999906
rad22	1.05414e-05	0.999925	1.15151e-05	0.999918
rad37	7.98156e-06	0.999933	8.71883e-06	0.999926
PhcycC3H3_A+H	7.57668e-06	0.999940	8.27654e-06	0.999935
rad1	7.22229e-06	0.999947	7.88944e-06	0.999943
rad21	6.06392e-06	0.999954	6.62404e-06	0.999949
rad52	5.70847e-06	0.999959	6.23576e-06	0.999956
PAH3+H	4.91637e-06	0.999964	5.37048e-06	0.999961
rad3	4.57426e-06	0.999969	4.99678e-06	0.999966
PAH10+CH3	3.95395e-06	0.999973	4.31917e-06	0.999970
rad20	3.78263e-06	0.999976	4.13202e-06	0.999974
rad26	3.70636e-06	0.999980	4.04871e-06	0.999978
rad67	3.54196e-06	0.999984	3.86912e-06	0.999982
rad4	3.48940e-06	0.999987	3.81171e-06	0.999986
PAH1+H	2.24223e-06	0.999989	2.44933e-06	0.999989
rad10	2.07212e-06	0.999991	2.26352e-06	0.999991
rad70	1.22066e-06	0.999993	1.33341e-06	0.999992
rad33	1.21849e-06	0.999994	1.33104e-06	0.999993
rad60syn	9.02852e-07	0.999995	9.86242e-07	0.999994
rad71	7.76019e-07	0.999996	8.47693e-07	0.999995
rad18	5.85743e-07	0.999996	6.39847e-07	0.999996
rad55	5.72181e-07	0.999997	6.25032e-07	0.999997
rad59	5.63687e-07	0.999997	6.15754e-07	0.999997
rad73	5.47589e-07	0.999998	5.98169e-07	0.999998
rad60anti	5.23909e-07	0.999998	5.72302e-07	0.999998
rad65	5.19997e-07	0.999999	5.68029e-07	0.999999
rad62	2.61616e-07	0.999999	2.85781e-07	0.999999
rad34	1.77447e-07	0.999999	1.93838e-07	0.999999
rad43	1.35373e-07	0.999999	1.47877e-07	1.000000
rad24	1.29623e-07	1.000000	1.41596e-07	1.000000
rad25	1.09044e-07	1.000000	1.19116e-07	1.000000
rad12	4.73480e-08	1.000000	5.17215e-08	1.000000
rad15	4.57347e-08	1.000000	4.99591e-08	1.000000
rad58	3.09546e-08	1.000000	3.38139e-08	1.000000
rad53	2.96834e-08	1.000000	3.24252e-08	1.000000
rad72	2.66633e-08	1.000000	2.91260e-08	1.000000
rad64	2.46905e-08	1.000000	2.69711e-08	1.000000
PAH8+H	1.44320e-08	1.000000	1.57651e-08	1.000000
rad56	1.37150e-08	1.000000	1.49818e-08	1.000000
rad14	1.08415e-08	1.000000	1.18429e-08	1.000000
rad42	8.20647e-09	1.000000	8.96446e-09	1.000000

rad41	7.85979e-09	1.000000	8.58582e-09	1.00000
rad61	5.84756e-09	1.00000	6.38770e-09	1.00000
rad68syn	3.84806e-09	1.00000	4.20350e-09	1.00000
rad27	2.64978e-09	1.00000	2.89454e-09	1.00000
rad68anti	2.52366e-09	1.00000	2.75677e-09	1.00000
rad40syn	2.09345e-09	1.00000	2.28682e-09	1.00000
rad40anti	1.56734e-09	1.00000	1.71211e-09	1.00000
rad31	1.01001e-09	1.00000	1.10331e-09	1.00000
rad47	2.28039e-10	1.00000	2.49103e-10	1.00000
rad5	2.82090e-11	1.00000	3.08146e-11	1.00000
rad8	2.06019e-11	1.00000	2.25049e-11	1.00000

1000.00000 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22919e-12 (1.00)	1.07523e-12 (1.00)
Formation of rad11	3.87976e-13 (0.316)	3.15633e-13 (0.294)
Formation of rad6	4.37724e-13 (0.356)	3.56105e-13 (0.331)
H-abstraction	4.03491e-13 (0.328)	4.03491e-13 (0.375)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.328257	0.328257	0.375260	0.375260
Indene+H	0.164083	0.492340	0.187577	0.562838
Phenyl+Allene	0.125254	0.617594	0.000000	0.562838
C2H2+PhCH2	0.121959	0.739553	0.139423	0.702260
rad6	0.100690	0.840243	0.115107	0.817367
PhCHCCH2+H	0.0553539	0.895597	0.0632799	0.880647
PhCCH+CH3	0.0466133	0.942210	0.0532879	0.933935
PhCH2CCH+H	0.0393274	0.981537	0.0449586	0.978894
Ph+MeAc	0.00638344	0.987921	0.00729746	0.986191
PAH7+H	0.00626891	0.994190	0.00716658	0.993358
PhCCCH3+H	0.00187231	0.996062	0.00214040	0.995498
rad39	0.00134723	0.997409	0.00154015	0.997038
PAH9+H	0.000425373	0.997835	0.000486282	0.997525
rad19anti	0.000341671	0.998176	0.000390595	0.997915
rad11	0.000297043	0.998473	0.000339577	0.998255
rad7	0.000245505	0.998719	0.000280659	0.998535
rad38	0.000193723	0.998913	0.000221461	0.998757
rad28	0.000184874	0.999097	0.000211346	0.998968
rad23	0.000178242	0.999276	0.000203764	0.999172
rad45	0.000113771	0.999389	0.000130062	0.999302
rad9	9.94388e-05	0.999489	0.000113678	0.999416
rad19syn	7.54528e-05	0.999564	8.62566e-05	0.999502
rad35	6.94307e-05	0.999634	7.93726e-05	0.999581
rad46	6.00895e-05	0.999694	6.86939e-05	0.999650
rad50	5.31718e-05	0.999747	6.07854e-05	0.999711
rad13	4.86723e-05	0.999796	5.56416e-05	0.999766
rad30	3.41171e-05	0.999830	3.90024e-05	0.999805
rad54	2.45157e-05	0.999854	2.80260e-05	0.999834
rad2	1.77583e-05	0.999872	2.03010e-05	0.999854
PhcycC3H3_A+H	1.74966e-05	0.999890	2.00019e-05	0.999874
rad51	1.62789e-05	0.999906	1.86099e-05	0.999892
rad36	1.04487e-05	0.999916	1.19448e-05	0.999904
rad37	1.01621e-05	0.999926	1.16172e-05	0.999916
rad22	8.56391e-06	0.999935	9.79017e-06	0.999926
rad21	8.54867e-06	0.999944	9.77280e-06	0.999936
PAH3+H	6.55015e-06	0.999950	7.48807e-06	0.999943
rad67	5.72098e-06	0.999956	6.54015e-06	0.999950
rad20	4.94176e-06	0.999961	5.64938e-06	0.999955
PAH10+CH3	4.75569e-06	0.999966	5.43666e-06	0.999961
rad52	4.69410e-06	0.999970	5.36625e-06	0.999966
rad1	4.20923e-06	0.999974	4.81195e-06	0.999971
PAH1+H	3.95882e-06	0.999978	4.52568e-06	0.999975
rad3	2.73194e-06	0.999981	3.12313e-06	0.999978
rad70	2.44604e-06	0.999984	2.79628e-06	0.999981
rad10	2.42595e-06	0.999986	2.77332e-06	0.999984
rad26	2.19170e-06	0.999988	2.50552e-06	0.999987
rad4	2.11849e-06	0.999990	2.42183e-06	0.999989
rad33	1.89069e-06	0.999992	2.16141e-06	0.999991
rad55	1.24557e-06	0.999993	1.42391e-06	0.999993
rad60syn	1.20084e-06	0.999995	1.37278e-06	0.999994
rad18	7.98635e-07	0.999995	9.12988e-07	0.999995
rad59	7.67553e-07	0.999996	8.77459e-07	0.999996
rad60anti	7.00715e-07	0.999997	8.01048e-07	0.999997
rad71	6.33820e-07	0.999998	7.24573e-07	0.999997
rad73	4.46752e-07	0.999998	5.10722e-07	0.999998
rad65	4.25978e-07	0.999998	4.86974e-07	0.999998
rad62	4.22241e-07	0.999999	4.82701e-07	0.999999

rad34	3.73790e-07	0.999999	4.27313e-07	0.999999
rad25	2.27143e-07	0.999999	2.59668e-07	0.999999
rad24	1.51584e-07	1.000000	1.73289e-07	1.000000
rad43	1.27321e-07	1.000000	1.45552e-07	1.000000
rad53	8.55061e-08	1.000000	9.77493e-08	1.000000
rad12	7.05128e-08	1.000000	8.06095e-08	1.000000
rad15	5.89021e-08	1.000000	6.73363e-08	1.000000
rad56	4.44219e-08	1.000000	5.07827e-08	1.000000
rad64	3.96138e-08	1.000000	4.52861e-08	1.000000
rad58	3.39131e-08	1.000000	3.87691e-08	1.000000
rad72	2.18298e-08	1.000000	2.49555e-08	1.000000
rad14	1.89079e-08	1.000000	2.16154e-08	1.000000
PAH8+H	1.45254e-08	1.000000	1.66053e-08	1.000000
rad42	1.27020e-08	1.000000	1.45208e-08	1.000000
rad68syn	6.44612e-09	1.000000	7.36912e-09	1.000000
rad41	6.36854e-09	1.000000	7.28047e-09	1.000000
rad61	5.61424e-09	1.000000	6.41814e-09	1.000000
rad27	4.99721e-09	1.000000	5.71276e-09	1.000000
rad68anti	4.25944e-09	1.000000	4.86935e-09	1.000000
rad40syn	2.24368e-09	1.000000	2.56495e-09	1.000000
rad40anti	1.51258e-09	1.000000	1.72916e-09	1.000000
rad31	8.47974e-10	1.000000	9.69396e-10	1.000000
rad8	1.88197e-10	1.000000	2.15145e-10	1.000000
rad47	1.79325e-10	1.000000	2.05002e-10	1.000000
rad5	2.39873e-11	1.000000	2.74221e-11	1.000000

1000.00000 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.50968e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.04413e-13 (0.268)
Formation of rad6	6.34764e-13 (0.352)	4.76451e-13 (0.316)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.417)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.416523	0.416523
Phenyl+Allene	0.162391	0.511274	0.000000	0.416523
Indene+H	0.143530	0.654804	0.171356	0.587879
C2H2+PhCH2	0.116936	0.771740	0.139607	0.727486
PhCHCCH2+H	0.0637846	0.835524	0.0761508	0.803637
PhCH2CCH+H	0.0525855	0.888110	0.0627804	0.866417
PhCCH+CH3	0.0465988	0.934709	0.0556331	0.922050
rad6	0.0459840	0.980693	0.0548992	0.976949
PAH7+H	0.00730775	0.988000	0.00872456	0.985674
Ph+MeAc	0.00640466	0.994405	0.00764635	0.993320
PhCCCH3+H	0.00157312	0.995978	0.00187811	0.995198
rad39	0.00150908	0.997487	0.00180166	0.997000
rad19anti	0.000427380	0.997915	0.000510239	0.997510
PAH9+H	0.000382822	0.998298	0.000457043	0.997967
rad11	0.000352308	0.998650	0.000420611	0.998388
rad7	0.000256514	0.998906	0.000306246	0.998694
rad38	0.000170584	0.999077	0.000203656	0.998898
rad19syn	0.000123143	0.999200	0.000147018	0.999045
rad23	0.000114327	0.999314	0.000136492	0.999181
rad28	9.18681e-05	0.999406	0.000109679	0.999291
rad9	8.19275e-05	0.999488	9.78107e-05	0.999389
rad45	7.64014e-05	0.999565	9.12139e-05	0.999480
rad35	6.49058e-05	0.999629	7.74893e-05	0.999557
rad13	5.60100e-05	0.999685	6.68688e-05	0.999624
rad46	5.02253e-05	0.999736	5.99628e-05	0.999684
rad54	4.22558e-05	0.999778	5.04482e-05	0.999735
rad50	3.94674e-05	0.999817	4.71191e-05	0.999782
rad30	3.54180e-05	0.999853	4.22846e-05	0.999824
PhcycC3H3_A+H	3.45527e-05	0.999887	4.12516e-05	0.999865
rad37	1.19250e-05	0.999899	1.42370e-05	0.999879
rad51	1.16034e-05	0.999911	1.38530e-05	0.999893
rad2	8.79379e-06	0.999920	1.04987e-05	0.999904
PAH3+H	8.33853e-06	0.999928	9.95512e-06	0.999914
rad21	7.37416e-06	0.999935	8.80380e-06	0.999923
rad67	7.06599e-06	0.999943	8.43592e-06	0.999931
rad36	7.06228e-06	0.999950	8.43142e-06	0.999939
PAH1+H	6.83692e-06	0.999956	8.16244e-06	0.999948
PAH10+CH3	5.83191e-06	0.999962	6.96258e-06	0.999955
rad22	5.78783e-06	0.999968	6.90995e-06	0.999962
rad70	4.27549e-06	0.999972	5.10441e-06	0.999967
rad20	3.84519e-06	0.999976	4.59068e-06	0.999971
rad52	3.40289e-06	0.999980	4.06262e-06	0.999975
rad10	2.72172e-06	0.999982	3.24939e-06	0.999979

rad55	2.30878e-06	0.999985	2.75639e-06	0.999981
rad1	2.12915e-06	0.999987	2.54194e-06	0.999984
rad33	1.71335e-06	0.999988	2.04553e-06	0.999986
rad3	1.45312e-06	0.999990	1.73485e-06	0.999988
rad60syn	1.43793e-06	0.999991	1.71671e-06	0.999989
rad26	1.25213e-06	0.999993	1.49489e-06	0.999991
rad4	1.13700e-06	0.999994	1.35744e-06	0.999992
rad59	9.77034e-07	0.999995	1.16645e-06	0.999993
rad60anti	8.45664e-07	0.999996	1.00962e-06	0.999994
rad18	8.26886e-07	0.999996	9.87203e-07	0.999995
rad34	7.04398e-07	0.999997	8.40960e-07	0.999996
rad62	6.25587e-07	0.999998	7.46874e-07	0.999997
rad71	4.39845e-07	0.999998	5.25120e-07	0.999997
rad73	3.10354e-07	0.999998	3.70524e-07	0.999998
rad65	3.05362e-07	0.999999	3.64564e-07	0.999998
rad25	2.80286e-07	0.999999	3.34626e-07	0.999999
rad53	2.06441e-07	0.999999	2.46464e-07	0.999999
rad24	1.34822e-07	0.999999	1.60960e-07	0.999999
rad56	1.22364e-07	0.999999	1.46088e-07	0.999999
rad43	1.14668e-07	1.000000	1.36900e-07	0.999999
rad15	9.66948e-08	1.000000	1.15442e-07	0.999999
rad12	8.04624e-08	1.000000	9.60626e-08	0.999999
rad64	7.08135e-08	1.000000	8.45424e-08	0.999999
rad58	3.89541e-08	1.000000	4.65063e-08	1.000000
rad42	2.08070e-08	1.000000	2.48410e-08	1.000000
rad14	2.02731e-08	1.000000	2.42036e-08	1.000000
PAH8+H	1.98158e-08	1.000000	2.36576e-08	1.000000
rad72	1.51433e-08	1.000000	1.80792e-08	1.000000
rad68syn	1.33384e-08	1.000000	1.59244e-08	1.000000
rad68anti	8.82999e-09	1.000000	1.05419e-08	1.000000
rad61	5.05596e-09	1.000000	6.03619e-09	1.000000
rad27	4.73309e-09	1.000000	5.65072e-09	1.000000
rad41	4.66818e-09	1.000000	5.57322e-09	1.000000
rad40syn	3.29064e-09	1.000000	3.92862e-09	1.000000
rad40anti	1.88121e-09	1.000000	2.24593e-09	1.000000
rad31	6.31962e-10	1.000000	7.54483e-10	1.000000
rad8	5.07240e-10	1.000000	6.05580e-10	1.000000
rad47	1.20379e-10	1.000000	1.43717e-10	1.000000
rad5	2.23804e-11	1.000000	2.67194e-11	1.000000

1000.00000 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.54148e-12 (1.00)	2.04996e-12 (1.00)
Formation of rad11	7.22991e-13 (0.284)	5.01882e-13 (0.245)
Formation of rad6	8.84215e-13 (0.348)	6.13800e-13 (0.299)
H-abstraction	9.34273e-13 (0.368)	9.34273e-13 (0.456)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.367610	0.367610	0.455753	0.455753
Phenyl+Allene	0.193401	0.561011	0.000000	0.455753
Indene+H	0.118079	0.679089	0.146391	0.602144
C2H2+PhCH2	0.104115	0.783205	0.129079	0.731223
PhCHCCH2+H	0.0682071	0.851412	0.0845613	0.815784
PhCH2CCH+H	0.0641749	0.915587	0.0795624	0.895347
PhCCH+CH3	0.0433429	0.958930	0.0537354	0.949082
rad6	0.0219518	0.980881	0.0272153	0.976297
PAH7+H	0.00784360	0.988725	0.00972423	0.986022
Ph+MeAc	0.00605371	0.994779	0.00750522	0.993527
rad39	0.00155178	0.996331	0.00192385	0.995451
PhCCCH3+H	0.00123015	0.997561	0.00152511	0.996976
rad19anti	0.000496427	0.998057	0.000615456	0.997591
PAH9+H	0.000352185	0.998409	0.000436629	0.998028
rad11	0.000325891	0.998735	0.000404030	0.998432
rad7	0.000253093	0.998988	0.000313778	0.998746
rad19syn	0.000182102	0.999170	0.000225765	0.998971
rad38	0.000154250	0.999325	0.000191235	0.999163
rad23	7.30973e-05	0.999398	9.06242e-05	0.999253
rad54	6.54378e-05	0.999463	8.11277e-05	0.999334
rad9	6.28922e-05	0.999526	7.79721e-05	0.999412
rad35	6.13612e-05	0.999587	7.60738e-05	0.999488
PhcycC3H3_A+H	6.08247e-05	0.999648	7.54087e-05	0.999564
rad45	4.75480e-05	0.999696	5.89485e-05	0.999623
rad28	4.72305e-05	0.999743	5.85550e-05	0.999681
rad46	4.35347e-05	0.999787	5.39732e-05	0.999735
rad13	4.24227e-05	0.999829	5.25945e-05	0.999788
rad30	3.43005e-05	0.999863	4.25249e-05	0.999830
rad50	2.94828e-05	0.999893	3.65520e-05	0.999867

rad37	1.34325e-05	0.999906	1.66532e-05	0.999884
PAH1+H	1.11375e-05	0.999917	1.38080e-05	0.999897
PAH3+H	1.03598e-05	0.999928	1.28437e-05	0.999910
rad67	8.31751e-06	0.999936	1.03118e-05	0.999921
rad51	8.01725e-06	0.999944	9.93953e-06	0.999931
PAH10+CH3	7.61594e-06	0.999952	9.44198e-06	0.999940
rad70	6.70270e-06	0.999958	8.30984e-06	0.999948
rad21	5.21165e-06	0.999964	6.46125e-06	0.999955
rad36	4.42378e-06	0.999968	5.48449e-06	0.999960
rad22	3.94468e-06	0.999972	4.89051e-06	0.999965
rad2	3.93644e-06	0.999976	4.88029e-06	0.999970
rad55	3.81322e-06	0.999980	4.72753e-06	0.999975
rad52	2.43710e-06	0.999982	3.02145e-06	0.999978
rad20	2.41225e-06	0.999985	2.99064e-06	0.999981
rad10	2.37228e-06	0.999987	2.94108e-06	0.999984
rad60syn	1.61567e-06	0.999989	2.00306e-06	0.999986
rad33	1.24308e-06	0.999990	1.54114e-06	0.999987
rad34	1.19362e-06	0.999991	1.47981e-06	0.999989
rad59	1.19312e-06	0.999992	1.47920e-06	0.999990
rad1	9.65204e-07	0.999993	1.19663e-06	0.999991
rad60anti	9.58842e-07	0.999994	1.18874e-06	0.999993
rad62	8.65015e-07	0.999995	1.07242e-06	0.999994
rad26	7.51583e-07	0.999996	9.31789e-07	0.999995
rad18	7.21310e-07	0.999996	8.94263e-07	0.999996
rad3	7.16346e-07	0.999997	8.88108e-07	0.999996
rad4	5.64044e-07	0.999998	6.99287e-07	0.999997
rad53	4.31213e-07	0.999998	5.34606e-07	0.999998
rad56	2.87485e-07	0.999998	3.56417e-07	0.999998
rad71	2.80404e-07	0.999999	3.47637e-07	0.999998
rad25	2.41569e-07	0.999999	2.99490e-07	0.999999
rad65	2.14014e-07	0.999999	2.65329e-07	0.999999
rad73	1.99075e-07	0.999999	2.46808e-07	0.999999
rad15	1.85985e-07	1.000000	2.30580e-07	0.999999
rad64	1.26288e-07	1.000000	1.56568e-07	1.000000
rad43	1.08987e-07	1.000000	1.35119e-07	1.000000
rad24	1.05626e-07	1.000000	1.30951e-07	1.000000
rad12	7.88426e-08	1.000000	9.77468e-08	1.000000
rad58	4.94574e-08	1.000000	6.13160e-08	1.000000
PAH8+H	3.99521e-08	1.000000	4.95314e-08	1.000000
rad42	3.35236e-08	1.000000	4.15615e-08	1.000000
rad68syn	2.81595e-08	1.000000	3.49114e-08	1.000000
rad68anti	1.86053e-08	1.000000	2.30663e-08	1.000000
rad14	1.51086e-08	1.000000	1.87312e-08	1.000000
rad72	9.59487e-09	1.000000	1.18954e-08	1.000000
rad40syn	6.58792e-09	1.000000	8.16752e-09	1.000000
rad61	5.30293e-09	1.000000	6.57445e-09	1.000000
rad41	3.88370e-09	1.000000	4.81491e-09	1.000000
rad40anti	3.49970e-09	1.000000	4.33884e-09	1.000000
rad27	2.98109e-09	1.000000	3.69588e-09	1.000000
rad8	7.79832e-10	1.000000	9.66817e-10	1.000000
rad31	4.42339e-10	1.000000	5.48400e-10	1.000000
rad47	7.73192e-11	1.000000	9.58577e-11	1.000000
rad5	2.36485e-11	1.000000	2.93188e-11	1.000000

1000.00000 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.47024e-12 (1.00)	2.71245e-12 (1.00)
Formation of rad11	9.43269e-13 (0.272)	6.08504e-13 (0.224)
Formation of rad6	1.19194e-12 (0.343)	7.68919e-13 (0.283)
H-abstraction	1.33503e-12 (0.385)	1.33503e-12 (0.492)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.492186	0.492186
Phenyl+Allene	0.218366	0.603075	0.00000	0.492186
Indene+H	0.0945918	0.697667	0.121018	0.613204
C2H2+PhCH2	0.0892012	0.786868	0.114122	0.727326
PhCH2CCH+H	0.0736633	0.860531	0.0942427	0.821568
PhCCCH2+H	0.0697820	0.930313	0.0892773	0.910846
PhCCH+CH3	0.0389819	0.969295	0.0498723	0.960718
rad6	0.0122568	0.981552	0.0156811	0.976399
PAH7+H	0.00803250	0.989585	0.0102766	0.986676
Ph+MeAc	0.00558318	0.995168	0.00714297	0.993819
rad39	0.00151921	0.996687	0.00194363	0.995762
PhCCCH3+H	0.000937513	0.997624	0.00119943	0.996962
rad19anti	0.000550101	0.998175	0.000703785	0.997665
PAH9+H	0.000339334	0.998514	0.000434135	0.998100
rad19syn	0.000251204	0.998765	0.000321382	0.998421

rad11	0.000232834	0.998998	0.000297881	0.998719
rad7	0.000210282	0.999208	0.000269028	0.998988
rad38	0.000147506	0.999356	0.000188715	0.999177
PhcycC3H3_A+H	9.80823e-05	0.999454	0.000125484	0.999302
rad54	9.39322e-05	0.999548	0.000120174	0.999422
rad35	5.99767e-05	0.999608	7.67328e-05	0.999499
rad23	5.02309e-05	0.999658	6.42639e-05	0.999563
rad9	4.53862e-05	0.999703	5.80660e-05	0.999621
rad46	4.10003e-05	0.999744	5.24547e-05	0.999674
rad30	3.20549e-05	0.999776	4.10101e-05	0.999715
rad45	2.85485e-05	0.999805	3.65241e-05	0.999751
rad28	2.78314e-05	0.999833	3.56067e-05	0.999787
rad13	2.70910e-05	0.999860	3.46595e-05	0.999821
rad50	2.47138e-05	0.999885	3.16181e-05	0.999853
PAH1+H	1.69708e-05	0.999902	2.17120e-05	0.999875
rad37	1.47865e-05	0.999916	1.89175e-05	0.999894
PAH3+H	1.25990e-05	0.999929	1.61188e-05	0.999910
PAH10+CH3	1.02477e-05	0.999939	1.31106e-05	0.999923
rad67	1.01218e-05	0.999949	1.29496e-05	0.999936
rad70	9.64087e-06	0.999959	1.23343e-05	0.999948
rad51	6.06223e-06	0.999965	7.75585e-06	0.999956
rad55	5.79436e-06	0.999971	7.41312e-06	0.999963
rad21	3.44239e-06	0.999974	4.40410e-06	0.999968
rad22	2.93645e-06	0.999977	3.75681e-06	0.999972
rad36	2.67447e-06	0.999980	3.42164e-06	0.999975
rad52	1.94281e-06	0.999982	2.48557e-06	0.999977
rad34	1.84505e-06	0.999984	2.36050e-06	0.999980
rad60syn	1.74808e-06	0.999985	2.23644e-06	0.999982
rad2	1.67711e-06	0.999987	2.14565e-06	0.999984
rad10	1.52398e-06	0.999989	1.94973e-06	0.999986
rad20	1.42082e-06	0.999990	1.81776e-06	0.999988
rad59	1.41315e-06	0.999991	1.80794e-06	0.999990
rad62	1.13490e-06	0.999993	1.45197e-06	0.999991
rad60anti	1.04712e-06	0.999994	1.33965e-06	0.999993
rad33	8.40555e-07	0.999994	1.07538e-06	0.999994
rad53	8.08726e-07	0.999995	1.03467e-06	0.999995
rad56	5.99768e-07	0.999996	7.67328e-07	0.999995
rad18	5.07905e-07	0.999996	6.49799e-07	0.999996
rad26	4.99686e-07	0.999997	6.39287e-07	0.999997
rad1	4.15150e-07	0.999997	5.31133e-07	0.999997
rad3	3.46355e-07	0.999998	4.43118e-07	0.999998
rad15	3.25416e-07	0.999998	4.16328e-07	0.999998
rad4	2.74076e-07	0.999998	3.50646e-07	0.999999
rad64	2.12241e-07	0.999998	2.71535e-07	0.999999
rad25	1.81204e-07	0.999999	2.31827e-07	0.999999
rad71	1.77626e-07	0.999999	2.27250e-07	0.999999
rad65	1.66060e-07	0.999999	2.12453e-07	0.999999
rad73	1.28679e-07	0.999999	1.64628e-07	1.000000
rad43	1.10061e-07	0.999999	1.40809e-07	1.000000
PAH8+H	8.66680e-08	0.999999	1.10880e-07	1.000000
rad24	7.82515e-08	0.999999	1.00113e-07	1.000000
rad12	7.06914e-08	0.999999	9.04407e-08	1.000000
rad58	6.66815e-08	1.000000	8.53103e-08	1.000000
rad68syn	5.46566e-08	1.000000	6.99260e-08	1.000000
rad42	5.14303e-08	1.000000	6.57985e-08	1.000000
rad68anti	3.60140e-08	1.000000	4.60753e-08	1.000000
rad40syn	1.35971e-08	1.000000	1.73957e-08	1.000000
rad14	9.85598e-09	1.000000	1.26095e-08	1.000000
rad40anti	7.22272e-09	1.000000	9.24054e-09	1.000000
rad61	7.10433e-09	1.000000	9.08906e-09	1.000000
rad72	5.93141e-09	1.000000	7.58847e-09	1.000000
rad41	3.98722e-09	1.000000	5.10115e-09	1.000000
rad27	1.63269e-09	1.000000	2.08882e-09	1.000000
rad8	9.31040e-10	1.000000	1.19114e-09	1.000000
rad31	3.04645e-10	1.000000	3.89754e-10	1.000000
rad47	5.37612e-11	1.000000	6.87804e-11	1.000000
rad5	2.83022e-11	1.000000	3.62091e-11	1.000000

1000.00000 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	4.61271e-12 (1.00)	3.51412e-12 (1.00)		
Formation of rad11	1.20217e-12 (0.261)	7.24657e-13 (0.206)		
Formation of rad6	1.56360e-12 (0.339)	9.42522e-13 (0.268)		
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.526)		
species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.525577	0.525577

Phenyl+Allene	0.238166	0.638569	0.00000	0.525577
PhCH2CCH+H	0.0810470	0.719616	0.106384	0.631961
Indene+H	0.0752663	0.794882	0.0987962	0.730757
C2H2+PhCH2	0.0751554	0.870037	0.0986501	0.829407
PhCHCCH2+H	0.0695216	0.939559	0.0912557	0.920663
PhCCH+CH3	0.0346519	0.974211	0.0454848	0.966148
rad6	0.00811532	0.982326	0.0106524	0.976800
PAH7+H	0.00801099	0.990337	0.0105154	0.987316
Ph+MeAc	0.00511813	0.995455	0.00671816	0.994034
rad39	0.00144661	0.996902	0.00189885	0.995933
PhCCCH3+H	0.000716124	0.997618	0.000939998	0.996873
rad19anti	0.000588505	0.998206	0.000772484	0.997645
PAH9+H	0.000339074	0.998545	0.000445077	0.998090
rad19syn	0.000328677	0.998874	0.000431428	0.998522
rad38	0.000147639	0.999022	0.000193794	0.998716
PhcycC3H3_A+H	0.000147227	0.999169	0.000193253	0.998909
rad11	0.000146160	0.999315	0.000191853	0.999101
rad7	0.000146100	0.999461	0.000191774	0.999292
rad54	0.000127382	0.999589	0.000167204	0.999460
rad35	6.02488e-05	0.999649	7.90839e-05	0.999539
rad46	4.15435e-05	0.999690	5.45311e-05	0.999593
rad23	3.80233e-05	0.999728	4.99103e-05	0.999643
rad9	3.14798e-05	0.999760	4.13210e-05	0.999684
rad30	2.94880e-05	0.999789	3.87066e-05	0.999723
PAH1+H	2.43432e-05	0.999814	3.19533e-05	0.999755
rad50	2.42842e-05	0.999838	3.18760e-05	0.999787
rad28	1.91651e-05	0.999857	2.51565e-05	0.999812
rad45	1.69982e-05	0.999874	2.23122e-05	0.999834
rad13	1.65443e-05	0.999891	2.17163e-05	0.999856
rad37	1.59769e-05	0.999907	2.09716e-05	0.999877
PAH3+H	1.49966e-05	0.999922	1.96849e-05	0.999897
PAH10+CH3	1.36524e-05	0.999935	1.79204e-05	0.999915
rad70	1.29721e-05	0.999948	1.70274e-05	0.999932
rad67	1.26762e-05	0.999961	1.66390e-05	0.999948
rad55	8.26300e-06	0.999969	1.08462e-05	0.999959
rad51	5.53091e-06	0.999975	7.26000e-06	0.999967
rad34	2.64995e-06	0.999977	3.47837e-06	0.999970
rad22	2.43690e-06	0.999980	3.19872e-06	0.999973
rad21	2.23069e-06	0.999982	2.92805e-06	0.999976
rad52	1.85135e-06	0.999984	2.43013e-06	0.999979
rad60syn	1.84830e-06	0.999986	2.42612e-06	0.999981
rad59	1.63263e-06	0.999987	2.14303e-06	0.999983
rad36	1.60382e-06	0.999989	2.10520e-06	0.999985
rad62	1.43271e-06	0.999990	1.88060e-06	0.999987
rad53	1.39212e-06	0.999992	1.82733e-06	0.999989
rad56	1.13520e-06	0.999993	1.49009e-06	0.999990
rad60anti	1.11711e-06	0.999994	1.46634e-06	0.999992
rad20	8.28194e-07	0.999995	1.08710e-06	0.999993
rad10	7.96829e-07	0.999996	1.04594e-06	0.999994
rad2	7.11920e-07	0.999996	9.34485e-07	0.999995
rad33	5.59243e-07	0.999997	7.34075e-07	0.999996
rad15	4.18849e-07	0.999997	5.49790e-07	0.999996
rad26	3.65301e-07	0.999998	4.79499e-07	0.999997
rad64	3.33198e-07	0.999998	4.37363e-07	0.999997
rad18	3.11507e-07	0.999998	4.08891e-07	0.999998
rad1	1.77676e-07	0.999999	2.33222e-07	0.999998
PAH8+H	1.76552e-07	0.999999	2.31747e-07	0.999998
rad3	1.70761e-07	0.999999	2.24144e-07	0.999998
rad65	1.56018e-07	0.999999	2.04793e-07	0.999998
rad4	1.35655e-07	0.999999	1.78064e-07	0.999999
rad25	1.30128e-07	0.999999	1.70808e-07	0.999999
rad71	1.24933e-07	0.999999	1.63990e-07	0.999999
rad43	1.15039e-07	1.000000	1.51003e-07	0.999999
rad68syn	9.68560e-08	1.000000	1.27135e-07	0.999999
rad73	9.47298e-08	1.000000	1.24344e-07	0.999999
rad58	9.06280e-08	1.000000	1.18960e-07	1.000000
rad42	7.51230e-08	1.000000	9.86079e-08	1.000000
rad68anti	6.36497e-08	1.000000	8.35478e-08	1.000000
rad12	6.01786e-08	1.000000	7.89919e-08	1.000000
rad24	5.68266e-08	1.000000	7.45916e-08	1.000000
rad40syn	2.61620e-08	1.000000	3.43408e-08	1.000000
rad40anti	1.41617e-08	1.000000	1.85889e-08	1.000000
rad61	1.09130e-08	1.000000	1.43247e-08	1.000000
rad14	6.33679e-09	1.000000	8.31777e-09	1.000000
rad41	4.68002e-09	1.000000	6.14307e-09	1.000000
rad72	3.89655e-09	1.000000	5.11471e-09	1.000000
rad8	9.84737e-10	1.000000	1.29258e-09	1.000000
rad27	8.77541e-10	1.000000	1.15188e-09	1.000000
rad31	2.12159e-10	1.000000	2.78484e-10	1.000000
rad47	4.52797e-11	1.000000	5.94352e-11	1.000000

rad5 | 3.64297e-11 1.00000 | 4.78185e-11 1.000000

1000.00000 Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.25847e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.04583e-12 (0.167)
Formation of rad6	2.80256e-12 (0.325)	1.43666e-12 (0.230)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.603)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.603339	0.603339
Phenyl+Allene	0.273849	0.711964	0.000000	0.603339
PhCH2CCH+H	0.0931550	0.805119	0.128286	0.731624
PhCHCCH2+H	0.0649792	0.870098	0.0894844	0.821109
C2H2+PhCH2	0.0459634	0.916062	0.0632972	0.884406
Indene+H	0.0374143	0.953476	0.0515239	0.935930
PhCCH+CH3	0.0269998	0.980476	0.0371820	0.973112
PAH7+H	0.00710903	0.987585	0.00979000	0.982902
Ph+MeAc	0.00482016	0.992405	0.00663797	0.989540
rad6	0.00321850	0.995623	0.00443225	0.993972
rad39	0.00123890	0.996862	0.00170612	0.995678
rad19anti	0.000555460	0.997418	0.000764938	0.996443
rad19syn	0.000544102	0.997962	0.000749297	0.997193
PhCCCH3+H	0.000435835	0.998398	0.000600200	0.997793
PhcycC3H3_A+H	0.000418784	0.998816	0.000576718	0.998370
PAH9+H	0.000289671	0.999106	0.000398914	0.998768
rad54	0.000226838	0.999333	0.000312384	0.999081
rad38	0.000162821	0.999496	0.000224225	0.999305
rad50	5.43090e-05	0.999550	7.47901e-05	0.999380
rad35	5.18054e-05	0.999602	7.13423e-05	0.999451
rad46	4.73673e-05	0.999649	6.52306e-05	0.999516
PAH1+H	4.72978e-05	0.999697	6.51350e-05	0.999582
rad51	3.00234e-05	0.999727	4.13460e-05	0.999623
PAH10+CH3	2.47326e-05	0.999751	3.40599e-05	0.999657
rad30	2.26458e-05	0.999774	3.11861e-05	0.999688
rad70	2.26393e-05	0.999797	3.11772e-05	0.999719
PAH3+H	2.19630e-05	0.999819	3.02459e-05	0.999750
rad7	2.06122e-05	0.999839	2.83856e-05	0.999778
rad71	2.03329e-05	0.999860	2.80009e-05	0.999806
rad67	1.84334e-05	0.999878	2.53851e-05	0.999831
rad55	1.84142e-05	0.999896	2.53586e-05	0.999857
rad37	1.63388e-05	0.999913	2.25006e-05	0.999879
rad11	1.59685e-05	0.999929	2.19906e-05	0.999901
rad23	1.18562e-05	0.999941	1.63275e-05	0.999918
rad28	8.59555e-06	0.999949	1.18371e-05	0.999929
rad73	6.44797e-06	0.999956	8.87966e-06	0.999938
rad52	6.17152e-06	0.999962	8.49899e-06	0.999947
rad34	5.49108e-06	0.999967	7.56191e-06	0.999954
rad53	5.17697e-06	0.999972	7.12931e-06	0.999961
rad56	5.09142e-06	0.999978	7.01151e-06	0.999968
rad72	3.86080e-06	0.999981	5.31681e-06	0.999974
rad62	2.54786e-06	0.999984	3.50873e-06	0.999977
rad59	2.14202e-06	0.999986	2.94984e-06	0.999980
rad9	2.12956e-06	0.999988	2.93268e-06	0.999983
rad60syn	1.96518e-06	0.999990	2.70630e-06	0.999986
rad13	1.40140e-06	0.999992	1.92991e-06	0.999988
rad60anti	1.32595e-06	0.999993	1.82599e-06	0.999990
rad45	1.24979e-06	0.999994	1.72112e-06	0.999991
rad22	1.18354e-06	0.999995	1.62989e-06	0.999993
PAH8+H	1.09867e-06	0.999996	1.51300e-06	0.999995
rad64	9.18778e-07	0.999997	1.26527e-06	0.999996
rad65	5.67336e-07	0.999998	7.81288e-07	0.999997
rad68syn	3.41138e-07	0.999998	4.69790e-07	0.999997
rad68anti	2.20398e-07	0.999998	3.03515e-07	0.999997
rad36	2.12359e-07	0.999999	2.92445e-07	0.999998
rad42	2.06281e-07	0.999999	2.84075e-07	0.999998
rad58	1.86891e-07	0.999999	2.57372e-07	0.999998
rad21	1.82448e-07	0.999999	2.51253e-07	0.999998
rad43	1.39973e-07	0.999999	1.92760e-07	0.999999
rad26	1.33975e-07	1.000000	1.84500e-07	0.999999
rad40syn	1.22376e-07	1.000000	1.68527e-07	0.999999
rad15	1.07842e-07	1.000000	1.48512e-07	0.999999
rad40anti	7.95613e-08	1.000000	1.09566e-07	0.999999
rad10	6.08218e-08	1.000000	8.37590e-08	0.999999
rad20	5.86378e-08	1.000000	8.07511e-08	0.999999
rad33	5.03257e-08	1.000000	6.93047e-08	0.999999
rad61	4.44421e-08	1.000000	6.12025e-08	1.000000

rad18	2.88411e-08	1.00000	3.97177e-08	1.000000
rad2	1.93592e-08	1.00000	2.66600e-08	1.000000
rad25	1.34574e-08	1.00000	1.85325e-08	1.000000
rad41	9.89222e-09	1.00000	1.36228e-08	1.000000
rad12	7.01019e-09	1.00000	9.65395e-09	1.000000
rad24	5.66453e-09	1.00000	7.80078e-09	1.000000
rad3	5.55034e-09	1.00000	7.64351e-09	1.000000
rad1	5.24741e-09	1.00000	7.22634e-09	1.000000
rad4	3.53662e-09	1.00000	4.87037e-09	1.000000
rad14	6.89596e-10	1.00000	9.49663e-10	1.000000
rad8	2.75804e-10	1.00000	3.79817e-10	1.000000
rad47	1.01229e-10	1.00000	1.39405e-10	1.000000
rad5	6.63351e-11	1.00000	9.13519e-11	1.000000
rad27	5.64908e-11	1.00000	7.77944e-11	1.000000

1000.00000 Pa, 2000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.44111e-11 (1.00)	1.02786e-11 (1.00)
Formation of rad11	3.16882e-12 (0.220)	1.46856e-12 (0.143)
Formation of rad6	4.53302e-12 (0.315)	2.10079e-12 (0.204)
H-abstraction	6.70922e-12 (0.466)	6.70922e-12 (0.653)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.652739	0.652739
Phenyl+Allene	0.286758	0.752319	0.000000	0.652739
PhCH2CCH+H	0.0969239	0.849243	0.135892	0.788631
PhCHCCH2+H	0.0590005	0.908243	0.0827215	0.871352
C2H2+PhCH2	0.0315621	0.939805	0.0442515	0.915604
Indene+H	0.0227696	0.962575	0.0319241	0.947528
PhCCH+CH3	0.0214405	0.984015	0.0300606	0.977588
PAH7+H	0.00657842	0.990594	0.00922330	0.986812
Ph+MeAc	0.00419233	0.994786	0.00587785	0.992689
rad39	0.00101409	0.995800	0.00142181	0.994111
rad19syn	0.000771095	0.996571	0.00108111	0.995192
PhcycC3H3_A+H	0.000708822	0.997280	0.000993803	0.996186
rad6	0.000608214	0.997888	0.000852742	0.997039
rad19anti	0.000524336	0.998413	0.000735146	0.997774
rad54	0.000338327	0.998751	0.000474352	0.998248
PAH9+H	0.000287304	0.999038	0.000402813	0.998651
PhCCCH3+H	0.000285963	0.999324	0.000400934	0.999052
rad38	0.000162530	0.999487	0.000227874	0.999280
PAH1+H	7.37121e-05	0.999560	0.000103348	0.999383
rad35	5.28126e-05	0.999613	7.40459e-05	0.999457
rad50	4.91512e-05	0.999662	6.89123e-05	0.999526
rad46	4.87499e-05	0.999711	6.83497e-05	0.999595
PAH10+CH3	3.44907e-05	0.999746	4.83575e-05	0.999643
rad70	3.22449e-05	0.999778	4.52089e-05	0.999688
rad55	2.96407e-05	0.999808	4.15578e-05	0.999730
PAH3+H	2.83702e-05	0.999836	3.97764e-05	0.999770
rad67	2.56528e-05	0.999862	3.59666e-05	0.999806
rad51	2.05648e-05	0.999882	2.88328e-05	0.999834
rad30	1.87711e-05	0.999901	2.63180e-05	0.999861
rad37	1.65992e-05	0.999917	2.32729e-05	0.999884
rad56	1.19871e-05	0.999929	1.68065e-05	0.999901
rad53	1.09072e-05	0.999940	1.52925e-05	0.999916
rad34	8.67193e-06	0.999949	1.21585e-05	0.999928
rad71	7.41060e-06	0.999956	1.03900e-05	0.999939
rad52	5.06866e-06	0.999962	7.10650e-06	0.999946
rad7	5.06853e-06	0.999967	7.10632e-06	0.999953
rad23	4.55504e-06	0.999971	6.38638e-06	0.999959
rad11	4.04009e-06	0.999975	5.66439e-06	0.999965
rad62	3.71958e-06	0.999979	5.21503e-06	0.999970
rad59	2.61618e-06	0.999982	3.66802e-06	0.999974
rad73	2.51699e-06	0.999984	3.52894e-06	0.999977
rad28	2.21005e-06	0.999986	3.09859e-06	0.999980
PAH8+H	2.14135e-06	0.999988	3.00227e-06	0.999983
rad60syn	2.07519e-06	0.999990	2.90952e-06	0.999986
rad64	1.58108e-06	0.999992	2.21675e-06	0.999989
rad60anti	1.42809e-06	0.999993	2.00225e-06	0.999991
rad72	1.33432e-06	0.999995	1.87078e-06	0.999992
rad9	7.90656e-07	0.999996	1.10853e-06	0.999994
rad68syn	6.89085e-07	0.999996	9.66133e-07	0.999995
rad65	4.94451e-07	0.999997	6.93245e-07	0.999995
rad13	4.64269e-07	0.999997	6.50928e-07	0.999996
rad68anti	4.44180e-07	0.999998	6.22761e-07	0.999996
rad45	4.11949e-07	0.999998	5.77572e-07	0.999997
rad42	3.85801e-07	0.999998	5.40912e-07	0.999998

rad22	3.03051e-07	0.999999	4.24892e-07	0.999998
rad58	2.89058e-07	0.999999	4.05275e-07	0.999998
rad40syn	2.52149e-07	0.999999	3.53526e-07	0.999999
rad43	1.70010e-07	1.000000	2.38361e-07	0.999999
rad40anti	1.61879e-07	1.000000	2.26961e-07	0.999999
rad36	7.14065e-08	1.000000	1.00115e-07	0.999999
rad21	6.97310e-08	1.000000	9.77666e-08	0.999999
rad61	6.91207e-08	1.000000	9.69106e-08	1.000000
rad15	4.01889e-08	1.000000	5.63466e-08	1.000000
rad26	3.22043e-08	1.000000	4.51520e-08	1.000000
rad33	2.18121e-08	1.000000	3.05817e-08	1.000000
rad20	1.85929e-08	1.000000	2.60681e-08	1.000000
rad41	1.55274e-08	1.000000	2.17702e-08	1.000000
rad10	1.08801e-08	1.000000	1.52545e-08	1.000000
rad18	6.93778e-09	1.000000	9.72711e-09	1.000000
rad25	5.69622e-09	1.000000	7.98639e-09	1.000000
rad12	4.03758e-09	1.000000	5.66088e-09	1.000000
rad2	3.21669e-09	1.000000	4.65018e-09	1.000000
rad24	2.76892e-09	1.000000	3.88217e-09	1.000000
rad3	1.57041e-09	1.000000	2.20180e-09	1.000000
rad4	9.93075e-10	1.000000	1.39234e-09	1.000000
rad1	9.17980e-10	1.000000	1.28706e-09	1.000000
rad14	2.85272e-10	1.000000	3.99965e-10	1.000000
rad8	2.35137e-10	1.000000	3.29674e-10	1.000000
rad47	5.59489e-11	1.000000	7.84432e-11	1.000000
rad5	4.11052e-11	1.000000	5.76315e-11	1.000000
rad27	1.77650e-11	1.000000	2.49075e-11	1.000000

1000.00000 Pa, 2250.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.23655e-11	(1.00)	1.58374e-11	(1.00)
Formation of rad11	4.62280e-12	(0.207)	1.98671e-12	(0.125)
Formation of rad6	6.82518e-12	(0.305)	2.93321e-12	(0.185)
H-abstraction	1.09175e-11	(0.488)	1.09175e-11	(0.689)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.689348	0.689348
Phenyl+Allene	0.291881	0.780022	0.000000	0.689348
PhCH2CCH+H	0.0966371	0.876659	0.136470	0.825818
PhCHCCH2+H	0.0531863	0.929845	0.0751094	0.900927
C2H2+PhCH2	0.0231735	0.953019	0.0327253	0.933653
PhCCH+CH3	0.0175956	0.970614	0.0248484	0.958501
Indene+H	0.0144194	0.985034	0.0203629	0.978864
PAH7+H	0.00603693	0.991071	0.00852525	0.987389
Ph+MeAc	0.00373090	0.994801	0.00526875	0.992658
PhcycC3H3_A+H	0.00106555	0.995867	0.00150476	0.994163
rad19syn	0.00100123	0.996868	0.00141393	0.995577
rad39	0.000833948	0.997702	0.00117770	0.996755
rad19anti	0.000461668	0.998164	0.000651962	0.997406
rad54	0.000451100	0.998615	0.000637038	0.998044
PAH9+H	0.000278971	0.998894	0.000393959	0.998437
PhCCCH3+H	0.000208471	0.999102	0.000294400	0.998732
rad38	0.000162640	0.999265	0.000229679	0.998962
rad6	0.000126866	0.999392	0.000179159	0.999141
PAH1+H	0.000101380	0.999493	0.000143168	0.999284
rad50	5.84094e-05	0.999552	8.24852e-05	0.999366
rad35	5.28321e-05	0.999604	7.46090e-05	0.999441
rad46	5.16927e-05	0.999656	7.29998e-05	0.999514
PAH10+CH3	4.35578e-05	0.999700	6.15119e-05	0.999576
rad55	4.18819e-05	0.999742	5.91453e-05	0.999635
rad70	4.13947e-05	0.999783	5.84572e-05	0.999693
PAH3+H	3.55995e-05	0.999819	5.02734e-05	0.999743
rad67	3.23171e-05	0.999851	4.56379e-05	0.999789
rad51	2.36354e-05	0.999875	3.33777e-05	0.999822
rad56	2.18544e-05	0.999896	3.08625e-05	0.999853
rad53	1.86557e-05	0.999915	2.63453e-05	0.999880
rad30	1.61491e-05	0.999931	2.28056e-05	0.999902
rad37	1.57880e-05	0.999947	2.22956e-05	0.999925
rad34	1.21761e-05	0.999959	1.71950e-05	0.999942
rad52	6.06595e-06	0.999965	8.56629e-06	0.999950
rad62	4.70265e-06	0.999970	6.64102e-06	0.999957
PAH8+H	4.41241e-06	0.999974	6.23118e-06	0.999963
rad71	4.06784e-06	0.999978	5.74458e-06	0.999969
rad59	3.11170e-06	0.999982	4.39433e-06	0.999973
rad64	2.35994e-06	0.999984	3.33267e-06	0.999977
rad60syn	2.18596e-06	0.999986	3.08700e-06	0.999980
rad7	1.71481e-06	0.999988	2.42164e-06	0.999982

rad73	1.68391e-06	0.999989	2.37800e-06	0.999985
rad60anti	1.52976e-06	0.999991	2.16031e-06	0.999987
rad11	1.31765e-06	0.999992	1.86077e-06	0.999989
rad68syn	1.24294e-06	0.999994	1.75528e-06	0.999990
rad23	1.11176e-06	0.999995	1.57002e-06	0.999992
rad68anti	7.98972e-07	0.999995	1.12830e-06	0.999993
rad65	6.19187e-07	0.999996	8.74408e-07	0.999994
rad72	5.81043e-07	0.999997	8.20541e-07	0.999995
rad42	5.39367e-07	0.999997	7.61691e-07	0.999996
rad40syn	4.94569e-07	0.999998	6.98426e-07	0.999996
rad28	4.66434e-07	0.999998	6.58694e-07	0.999997
rad58	4.35655e-07	0.999999	6.15228e-07	0.999998
rad40anti	3.24035e-07	0.999999	4.57600e-07	0.999998
rad9	3.00710e-07	0.999999	4.24661e-07	0.999998
rad43	2.04860e-07	0.999999	2.89301e-07	0.999999
rad13	1.81566e-07	1.000000	2.56407e-07	0.999999
rad45	1.49290e-07	1.000000	2.10826e-07	0.999999
rad61	1.10519e-07	1.000000	1.56073e-07	0.999999
rad22	7.62298e-08	1.000000	1.07651e-07	0.999999
rad21	2.98034e-08	1.000000	4.20881e-08	1.000000
rad36	2.63336e-08	1.000000	3.71881e-08	1.000000
rad41	2.22372e-08	1.000000	3.14032e-08	1.000000
rad15	1.66306e-08	1.000000	2.34856e-08	1.000000
rad33	1.05697e-08	1.000000	1.49265e-08	1.000000
rad26	9.03888e-09	1.000000	1.27646e-08	1.000000
rad20	6.93115e-09	1.000000	9.78808e-09	1.000000
rad10	3.21158e-09	1.000000	4.53536e-09	1.000000
rad25	2.69140e-09	1.000000	3.80076e-09	1.000000
rad12	2.29648e-09	1.000000	3.24308e-09	1.000000
rad18	2.24597e-09	1.000000	3.17176e-09	1.000000
rad24	1.44171e-09	1.000000	2.03597e-09	1.000000
rad2	7.71700e-10	1.000000	1.08979e-09	1.000000
rad3	5.45289e-10	1.000000	7.70050e-10	1.000000
rad4	3.39164e-10	1.000000	4.78963e-10	1.000000
rad1	2.13466e-10	1.000000	3.01454e-10	1.000000
rad8	2.02328e-10	1.000000	2.85727e-10	1.000000
rad14	1.41502e-10	1.000000	1.99828e-10	1.000000
rad47	5.66178e-11	1.000000	7.99553e-11	1.000000
rad5	2.33467e-11	1.000000	3.29701e-11	1.000000
rad27	7.34242e-12	1.000000	1.03689e-11	1.000000

1000.00000 Pa, 2500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.28090e-11 (1.00)	2.31959e-11 (1.00)
Formation of rad11	6.43164e-12 (0.196)	2.60825e-12 (0.112)
Formation of rad6	9.73932e-12 (0.297)	3.94962e-12 (0.170)
H-abstraction	1.66381e-11 (0.507)	1.66381e-11 (0.717)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.717284	0.717284
Phenyl+Allene	0.293001	0.800120	0.000000	0.717284
PhCH2CCH+H	0.0943622	0.894482	0.133468	0.850752
PhCHCCH2+H	0.0481708	0.942653	0.0681341	0.918886
C2H2+PhCH2	0.0183320	0.960985	0.0259293	0.944815
PhCCH+CH3	0.0148617	0.975846	0.0210208	0.965836
Indene+H	0.00950630	0.985353	0.0134460	0.979282
PAH7+H	0.00552821	0.990881	0.00781926	0.987101
Ph+MeAc	0.00339389	0.994275	0.00480041	0.991902
PhcycC3H3_A+H	0.00150030	0.995775	0.00212207	0.994024
rad19syn	0.00122887	0.997004	0.00173814	0.995762
rad39	0.000692834	0.997697	0.000979966	0.996742
rad54	0.000559041	0.998256	0.000790721	0.997532
rad19anti	0.000391900	0.998648	0.000554314	0.998087
PAH9+H	0.000262337	0.998910	0.000371057	0.998458
PhCCCH3+H	0.000164358	0.999074	0.000232473	0.998690
rad38	0.000158394	0.999233	0.000224037	0.998914
PAH1+H	0.000130232	0.999363	0.000184203	0.999099
rad50	7.09523e-05	0.999434	0.000100357	0.999199
rad55	5.45674e-05	0.999489	7.71813e-05	0.999276
rad46	5.32898e-05	0.999542	7.53748e-05	0.999351
rad35	5.15096e-05	0.999593	7.28566e-05	0.999424
PAH10+CH3	5.05376e-05	0.999644	7.14817e-05	0.999496
rad70	4.95439e-05	0.999694	7.00766e-05	0.999566
PAH3+H	4.32224e-05	0.999737	6.11352e-05	0.999627
rad67	3.74313e-05	0.999774	5.29437e-05	0.999680
rad56	3.67720e-05	0.999811	5.20113e-05	0.999732
rad6	3.60250e-05	0.999847	5.09548e-05	0.999783

rad51	3.11389e-05	0.999878	4.40438e-05	0.999827
rad53	2.91653e-05	0.999907	4.12523e-05	0.999868
rad34	1.57333e-05	0.999923	2.22537e-05	0.999890
rad30	1.43392e-05	0.999937	2.02817e-05	0.999911
rad37	1.42911e-05	0.999952	2.02138e-05	0.999931
PAH8+H	8.38515e-06	0.999960	1.18602e-05	0.999943
rad52	7.67756e-06	0.999968	1.08594e-05	0.999954
rad62	5.76085e-06	0.999973	8.14831e-06	0.999962
rad71	4.27562e-06	0.999978	6.04756e-06	0.999968
rad59	3.60374e-06	0.999981	5.09724e-06	0.999973
rad64	3.23714e-06	0.999985	4.57871e-06	0.999978
rad60syn	2.29334e-06	0.999987	3.24378e-06	0.999981
rad73	2.06253e-06	0.999989	2.91729e-06	0.999984
rad68syn	2.00452e-06	0.999991	2.83525e-06	0.999987
rad60anti	1.62746e-06	0.999993	2.30193e-06	0.999989
rad68anti	1.28544e-06	0.999994	1.81816e-06	0.999991
rad40syn	8.74524e-07	0.999995	1.23695e-06	0.999992
rad65	7.96526e-07	0.999996	1.12663e-06	0.999993
rad42	7.40692e-07	0.999996	1.04765e-06	0.999994
rad7	6.85923e-07	0.999997	9.70192e-07	0.999995
rad58	6.18758e-07	0.999998	8.75191e-07	0.999996
rad40anti	5.89166e-07	0.999998	8.33332e-07	0.999997
rad11	4.99353e-07	0.999999	7.06299e-07	0.999997
rad72	4.22179e-07	0.999999	5.97142e-07	0.999998
rad23	3.22610e-07	0.999999	4.56307e-07	0.999999
rad43	2.46352e-07	1.000000	3.48448e-07	0.999999
rad61	1.63133e-07	1.000000	2.30741e-07	0.999999
rad28	1.29046e-07	1.000000	1.82526e-07	0.999999
rad9	1.19646e-07	1.000000	1.69232e-07	0.999999
rad13	7.99611e-08	1.000000	1.13099e-07	1.000000
rad45	5.93252e-08	1.000000	8.39114e-08	1.000000
rad41	3.13756e-08	1.000000	4.43786e-08	1.000000
rad22	2.45301e-08	1.000000	3.46961e-08	1.000000
rad21	1.40691e-08	1.000000	1.98997e-08	1.000000
rad36	1.06248e-08	1.000000	1.50280e-08	1.000000
rad15	7.28474e-09	1.000000	1.03037e-08	1.000000
rad33	5.57838e-09	1.000000	7.89022e-09	1.000000
rad26	3.25447e-09	1.000000	4.60322e-09	1.000000
rad20	3.00629e-09	1.000000	4.25217e-09	1.000000
rad25	1.38566e-09	1.000000	1.95991e-09	1.000000
rad12	1.32270e-09	1.000000	1.87086e-09	1.000000
rad10	1.20949e-09	1.000000	1.71074e-09	1.000000
rad18	8.73337e-10	1.000000	1.23528e-09	1.000000
rad24	7.96708e-10	1.000000	1.12689e-09	1.000000
rad2	2.32816e-10	1.000000	3.29300e-10	1.000000
rad3	2.22397e-10	1.000000	3.14564e-10	1.000000
rad8	1.75669e-10	1.000000	2.48472e-10	1.000000
rad4	1.35587e-10	1.000000	1.91779e-10	1.000000
rad14	7.89182e-11	1.000000	1.11624e-10	1.000000
rad47	7.09133e-11	1.000000	1.00302e-10	1.000000
rad1	6.28582e-11	1.000000	8.89081e-11	1.000000
rad5	1.52654e-11	1.000000	2.15918e-11	1.000000
rad27	3.72517e-12	1.000000	5.26899e-12	1.000000

1000.00000 Pa, 2750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.60596e-11 (1.00)	3.26249e-11 (1.00)
Formation of rad11	8.62280e-12 (0.187)	3.34611e-12 (0.103)
Formation of rad6	1.33313e-11 (0.289)	5.17327e-12 (0.159)
H-abstraction	2.41055e-11 (0.523)	2.41055e-11 (0.739)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.738869	0.738869
Phenyl+Allene	0.291681	0.815036	0.000000	0.738869
PhCH2CCH+H	0.0913815	0.906417	0.129012	0.867880
PhCHCCH2+H	0.0440835	0.950501	0.0622367	0.930117
C2H2+PhCH2	0.0155225	0.966023	0.0219145	0.952032
PhCCH+CH3	0.0128628	0.978886	0.0181596	0.970191
Indene+H	0.00652037	0.985406	0.00920537	0.979397
PAH7+H	0.00506669	0.990473	0.00715309	0.986550
Ph+MeAc	0.00315023	0.993623	0.00444746	0.990997
PhcycC3H3_A+H	0.00197559	0.995599	0.00278912	0.993786
rad19syn	0.00143657	0.997036	0.00202814	0.995814
rad54	0.000652804	0.997688	0.000921623	0.996736
rad39	0.000584267	0.998273	0.000824864	0.997561
rad19anti	0.000328351	0.998601	0.000463563	0.998024
PAH9+H	0.000240330	0.998841	0.000339296	0.998364

PAH1+H	0.000158505	0.999000	0.000223776	0.998587
rad38	0.000149888	0.999150	0.000211611	0.998799
PhCCCH3+H	0.000136816	0.999286	0.000193156	0.998992
rad50	8.25092e-05	0.999369	0.000116486	0.999109
rad55	6.64634e-05	0.999435	9.38323e-05	0.999203
rad70	5.64901e-05	0.999492	7.97521e-05	0.999282
rad56	5.60840e-05	0.999548	7.91789e-05	0.999362
PAH10+CH3	5.50301e-05	0.999603	7.76910e-05	0.999439
rad46	5.30292e-05	0.999656	7.48658e-05	0.999514
PAH3+H	5.07923e-05	0.999707	7.17082e-05	0.999586
rad35	4.92360e-05	0.999756	6.95113e-05	0.999655
rad53	4.16453e-05	0.999798	5.87945e-05	0.999714
rad67	4.09017e-05	0.999839	5.77447e-05	0.999772
rad51	3.99134e-05	0.999879	5.63495e-05	0.999828
rad34	1.91426e-05	0.999898	2.70255e-05	0.999855
PAH8+H	1.42625e-05	0.999912	2.01356e-05	0.999875
rad30	1.30142e-05	0.999925	1.83734e-05	0.999894
rad37	1.25449e-05	0.999938	1.77108e-05	0.999911
rad6	1.24848e-05	0.999950	1.76260e-05	0.999929
rad52	9.31203e-06	0.999959	1.31466e-05	0.999942
rad62	6.98643e-06	0.999966	9.86337e-06	0.999952
rad71	6.51789e-06	0.999973	9.20187e-06	0.999961
rad64	4.13472e-06	0.999977	5.83735e-06	0.999967
rad59	4.06611e-06	0.999981	5.74050e-06	0.999973
rad73	3.12991e-06	0.999984	4.41878e-06	0.999977
rad68syn	2.94064e-06	0.999987	4.15157e-06	0.999981
rad60syn	2.38781e-06	0.999990	3.37107e-06	0.999985
rad68anti	1.88217e-06	0.999991	2.65724e-06	0.999987
rad60anti	1.71426e-06	0.999993	2.42018e-06	0.999990
rad40syn	1.39220e-06	0.999995	1.96550e-06	0.999992
rad42	1.01190e-06	0.999996	1.42859e-06	0.999993
rad65	9.89306e-07	0.999997	1.39669e-06	0.999995
rad40anti	9.62190e-07	0.999997	1.35841e-06	0.999996
rad58	8.27599e-07	0.999998	1.16840e-06	0.999997
rad72	5.80740e-07	0.999999	8.19884e-07	0.999998
rad7	3.09976e-07	0.999999	4.37622e-07	0.999998
rad43	2.90803e-07	0.999999	4.10553e-07	0.999999
rad61	2.19540e-07	1.000000	3.09944e-07	0.999999
rad11	2.14621e-07	1.000000	3.03001e-07	0.999999
rad23	1.13065e-07	1.000000	1.59625e-07	1.000000
rad9	5.06235e-08	1.000000	7.14695e-08	1.000000
rad28	4.44478e-08	1.000000	6.27511e-08	1.000000
rad41	4.26627e-08	1.000000	6.02310e-08	1.000000
rad13	3.90730e-08	1.000000	5.51629e-08	1.000000
rad45	2.57177e-08	1.000000	3.63082e-08	1.000000
rad22	9.36041e-09	1.000000	1.32150e-08	1.000000
rad21	7.28996e-09	1.000000	1.02919e-08	1.000000
rad36	4.66641e-09	1.000000	6.58800e-09	1.000000
rad15	3.37147e-09	1.000000	4.75982e-09	1.000000
rad33	3.16719e-09	1.000000	4.47143e-09	1.000000
rad20	1.50802e-09	1.000000	2.12900e-09	1.000000
rad26	1.33976e-09	1.000000	1.89147e-09	1.000000
rad12	7.84658e-10	1.000000	1.10777e-09	1.000000
rad25	7.72485e-10	1.000000	1.09059e-09	1.000000
rad10	5.25883e-10	1.000000	7.42440e-10	1.000000
rad24	4.65445e-10	1.000000	6.57111e-10	1.000000
rad18	3.93298e-10	1.000000	5.55254e-10	1.000000
rad8	1.53869e-10	1.000000	2.17232e-10	1.000000
rad3	1.03875e-10	1.000000	1.46649e-10	1.000000
rad47	8.82843e-11	1.000000	1.24639e-10	1.000000
rad2	8.68319e-11	1.000000	1.22589e-10	1.000000
rad4	6.22894e-11	1.000000	8.79398e-11	1.000000
rad14	4.83395e-11	1.000000	6.82451e-11	1.000000
rad1	2.24884e-11	1.000000	3.17489e-11	1.000000
rad5	1.06745e-11	1.000000	1.50702e-11	1.000000
rad27	2.19455e-12	1.000000	3.09824e-12	1.000000

1000.00000 Pa, 3000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.43911e-11 (1.00)
Formation of rad11	1.12221e-11 (0.180)	4.21267e-12 (0.0949)
Formation of rad6	1.76534e-11 (0.283)	6.62696e-12 (0.149)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.756)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.755815	0.755815
Phenyl+Allene	0.288912	0.826363	0.00000	0.755815

PhCH2CCH+H	0.0883033	0.914666	0.124180	0.879995
PhCHCCH2+H	0.0408093	0.955476	0.0573901	0.937385
C2H2+PhCH2	0.0138645	0.969340	0.0194977	0.956883
PhCCH+CH3	0.0113572	0.980697	0.0159716	0.972855
PAH7+H	0.00465296	0.985350	0.00654345	0.979398
Indene+H	0.00463737	0.989988	0.00652150	0.985920
Ph+MeAc	0.00297580	0.992963	0.00418484	0.990104
PhcycC3H3_A+H	0.00245742	0.995421	0.00345585	0.993560
rad19syn	0.00161485	0.997036	0.00227097	0.995831
rad54	0.000727945	0.997764	0.00102371	0.996855
rad39	0.000500626	0.998264	0.000704032	0.997559
rad19anti	0.000275279	0.998540	0.000387123	0.997946
PAH9+H	0.000215495	0.998755	0.000303051	0.998249
PAH1+H	0.000185178	0.998940	0.000260416	0.998510
rad38	0.000138340	0.999079	0.000194547	0.998704
PhCCCH3+H	0.000118085	0.999197	0.000166063	0.998870
rad50	9.12400e-05	0.999288	0.000128311	0.998998
rad56	7.84658e-05	0.999366	0.000110346	0.999109
rad55	7.67946e-05	0.999443	0.000107996	0.999217
rad70	6.22183e-05	0.999505	8.74973e-05	0.999304
PAH3+H	5.79245e-05	0.999563	8.14586e-05	0.999386
PAH10+CH3	5.73542e-05	0.999621	8.06567e-05	0.999466
rad53	5.51122e-05	0.999676	7.75043e-05	0.999544
rad46	5.11311e-05	0.999727	7.19054e-05	0.999616
rad51	4.82013e-05	0.999775	6.77852e-05	0.999684
rad35	4.64070e-05	0.999821	6.52618e-05	0.999749
rad67	4.30037e-05	0.999864	6.04761e-05	0.999809
rad34	2.22820e-05	0.999887	3.13350e-05	0.999841
PAH8+H	2.20522e-05	0.999909	3.10120e-05	0.999872
rad30	1.19653e-05	0.999921	1.68268e-05	0.999888
rad37	1.08339e-05	0.999932	1.52357e-05	0.999904
rad52	1.06734e-05	0.999942	1.50100e-05	0.999919
rad71	1.01874e-05	0.999952	1.43265e-05	0.999933
rad62	8.53259e-06	0.999961	1.19994e-05	0.999945
rad6	4.99358e-06	0.999966	7.02249e-06	0.999952
rad64	4.99210e-06	0.999971	7.02039e-06	0.999959
rad73	4.62882e-06	0.999976	6.50951e-06	0.999966
rad59	4.47745e-06	0.999980	6.29663e-06	0.999972
rad68syn	4.00641e-06	0.999984	5.63420e-06	0.999978
rad68anti	2.56048e-06	0.999987	3.60080e-06	0.999981
rad60syn	2.46109e-06	0.999989	3.46103e-06	0.999985
rad40syn	2.03393e-06	0.999991	2.86031e-06	0.999987
rad60anti	1.78415e-06	0.999993	2.50905e-06	0.999990
rad40anti	1.43680e-06	0.999994	2.02057e-06	0.999992
rad42	1.38035e-06	0.999996	1.94117e-06	0.999994
rad65	1.16171e-06	0.999997	1.63371e-06	0.999996
rad58	1.05054e-06	0.999998	1.47737e-06	0.999997
rad72	9.79886e-07	0.999999	1.37801e-06	0.999998
rad43	3.36265e-07	0.999999	4.72889e-07	0.999999
rad61	2.74201e-07	1.000000	3.85607e-07	0.999999
rad7	1.54805e-07	1.000000	2.17702e-07	0.999999
rad11	1.03090e-07	1.000000	1.44975e-07	1.000000
rad41	5.57413e-08	1.000000	7.83890e-08	1.000000
rad23	4.49161e-08	1.000000	6.31653e-08	1.000000
rad9	2.29377e-08	1.000000	3.22573e-08	1.000000
rad13	2.08859e-08	1.000000	2.93718e-08	1.000000
rad28	1.77067e-08	1.000000	2.49010e-08	1.000000
rad45	1.20476e-08	1.000000	1.69425e-08	1.000000
rad21	4.10071e-09	1.000000	5.76682e-09	1.000000
rad22	4.06117e-09	1.000000	5.71122e-09	1.000000
rad36	2.20991e-09	1.000000	3.10779e-09	1.000000
rad33	1.91086e-09	1.000000	2.68723e-09	1.000000
rad15	1.65477e-09	1.000000	2.32710e-09	1.000000
rad20	8.58846e-10	1.000000	1.20779e-09	1.000000
rad26	6.02844e-10	1.000000	8.47776e-10	1.000000
rad12	4.83238e-10	1.000000	6.79579e-10	1.000000
rad25	4.62088e-10	1.000000	6.49832e-10	1.000000
rad24	2.85467e-10	1.000000	4.01452e-10	1.000000
rad10	2.53033e-10	1.000000	3.55838e-10	1.000000
rad18	1.99627e-10	1.000000	2.80735e-10	1.000000
rad8	1.35608e-10	1.000000	1.90705e-10	1.000000
rad47	1.03985e-10	1.000000	1.46233e-10	1.000000
rad3	5.41899e-11	1.000000	7.62072e-11	1.000000
rad2	3.83953e-11	1.000000	5.39951e-11	1.000000
rad4	3.22552e-11	1.000000	4.53603e-11	1.000000
rad14	3.22108e-11	1.000000	4.52980e-11	1.000000
rad1	9.47850e-12	1.000000	1.33295e-11	1.000000
rad5	7.75504e-12	1.000000	1.09059e-11	1.000000
rad27	1.42983e-12	1.000000	2.01076e-12	1.000000

1000.00000 Pa, 3250.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	8.22129e-11	(1.00)	5.87537e-11	(1.00)
Formation of rad11	1.42538e-11	(0.173)	5.21852e-12	(0.0888)
Formation of rad6	2.27549e-11	(0.277)	8.33087e-12	(0.142)
H-abstraction	4.52043e-11	(0.550)	4.52043e-11	(0.769)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.549844	0.549844	0.769387	0.769387
Phenyl+Allene	0.285348	0.835192	0.000000	0.769387
PhCH2CCH+H	0.0853712	0.920563	0.119458	0.888845
PhCHCCH2+H	0.0381833	0.958746	0.0534292	0.942274
C2H2+PhCH2	0.0128678	0.971614	0.0180057	0.960280
PhCCH+CH3	0.0101923	0.981806	0.0142619	0.974542
PAH7+H	0.00428261	0.986089	0.00599258	0.980534
Indene+H	0.00340663	0.989495	0.00476683	0.985301
PhcycC3H3_A+H	0.00292079	0.992416	0.00408700	0.989388
Ph+MeAc	0.00285188	0.995268	0.00399058	0.993379
rad19syn	0.00176016	0.997028	0.00246295	0.995842
rad54	0.000783519	0.997812	0.00109637	0.996938
rad39	0.000435257	0.998247	0.000609048	0.997547
rad19anti	0.000232570	0.998480	0.000325430	0.997872
PAH1+H	0.000210318	0.998690	0.000294293	0.998167
PAH9+H	0.000189946	0.998880	0.000265787	0.998432
rad38	0.000125077	0.999005	0.000175017	0.998607
PhCCCH3+H	0.000104499	0.999109	0.000146223	0.998754
rad56	0.000102510	0.999212	0.000143440	0.998897
rad50	9.65625e-05	0.999309	0.000135118	0.999032
rad55	8.51979e-05	0.999394	0.000119215	0.999151
rad53	6.86952e-05	0.999462	9.61236e-05	0.999248
rad70	6.67843e-05	0.999529	9.34499e-05	0.999341
PAH3+H	6.43498e-05	0.999594	9.00432e-05	0.999431
PAH10+CH3	5.80458e-05	0.999652	8.12225e-05	0.999512
rad51	5.50149e-05	0.999707	7.69813e-05	0.999589
rad46	4.80348e-05	0.999755	6.72144e-05	0.999656
rad67	4.40674e-05	0.999799	6.16626e-05	0.999718
rad35	4.33454e-05	0.999842	6.06525e-05	0.999779
PAH8+H	3.16158e-05	0.999874	4.42393e-05	0.999823
rad34	2.50793e-05	0.999899	3.50931e-05	0.999858
rad71	1.48754e-05	0.999914	2.08148e-05	0.999879
rad52	1.16307e-05	0.999925	1.62747e-05	0.999895
rad30	1.10771e-05	0.999936	1.54999e-05	0.999911
rad62	1.06743e-05	0.999947	1.49363e-05	0.999926
rad37	9.29329e-06	0.999956	1.30039e-05	0.999939
rad73	6.36809e-06	0.999963	8.91074e-06	0.999948
rad64	5.77726e-06	0.999968	8.08402e-06	0.999956
rad68syn	5.15388e-06	0.999974	7.21172e-06	0.999963
rad59	4.82500e-06	0.999978	6.75155e-06	0.999970
rad68anti	3.28988e-06	0.999982	4.60348e-06	0.999974
rad40syn	2.77824e-06	0.999985	3.88754e-06	0.999978
rad60syn	2.50930e-06	0.999987	3.51120e-06	0.999982
rad6	2.24258e-06	0.999989	3.13800e-06	0.999985
rad40anti	1.99978e-06	0.999991	2.79826e-06	0.999988
rad42	1.90570e-06	0.999993	2.66661e-06	0.999990
rad60anti	1.83423e-06	0.999995	2.56661e-06	0.999993
rad72	1.59367e-06	0.999997	2.23000e-06	0.999995
rad65	1.29415e-06	0.999998	1.81088e-06	0.999997
rad58	1.27695e-06	0.999999	1.78681e-06	0.999999
rad43	3.85100e-07	1.000000	5.38863e-07	0.999999
rad61	3.23940e-07	1.000000	4.53282e-07	1.000000
rad7	8.39109e-08	1.000000	1.17415e-07	1.000000
rad41	7.10886e-08	1.000000	9.94730e-08	1.000000
rad11	5.44806e-08	1.000000	7.62337e-08	1.000000
rad23	1.96143e-08	1.000000	2.74460e-08	1.000000
rad13	1.20405e-08	1.000000	1.68481e-08	1.000000
rad9	1.11392e-08	1.000000	1.55869e-08	1.000000
rad28	7.88705e-09	1.000000	1.10362e-08	1.000000
rad45	6.02984e-09	1.000000	8.43745e-09	1.000000
rad21	2.47303e-09	1.000000	3.46047e-09	1.000000
rad22	1.95992e-09	1.000000	2.74248e-09	1.000000
rad33	1.21178e-09	1.000000	1.69562e-09	1.000000
rad36	1.11581e-09	1.000000	1.56133e-09	1.000000
rad15	8.61698e-10	1.000000	1.20576e-09	1.000000
rad20	5.41952e-10	1.000000	7.58340e-10	1.000000
rad12	3.09635e-10	1.000000	4.33267e-10	1.000000
rad25	2.93470e-10	1.000000	4.10646e-10	1.000000
rad26	2.91827e-10	1.000000	4.08347e-10	1.000000

rad24	1.82508e-10	1.00000	2.55379e-10	1.000000
rad10	1.31567e-10	1.00000	1.84099e-10	1.000000
rad8	1.19857e-10	1.00000	1.67713e-10	1.000000
rad47	1.15866e-10	1.00000	1.62129e-10	1.000000
rad18	1.11338e-10	1.00000	1.55792e-10	1.000000
rad3	3.08595e-11	1.00000	4.31812e-11	1.000000
rad14	2.33685e-11	1.00000	3.26991e-11	1.000000
rad2	1.93196e-11	1.00000	2.70337e-11	1.000000
rad4	1.84461e-11	1.00000	2.58112e-11	1.000000
rad5	5.82263e-12	1.00000	8.14750e-12	1.000000
rad1	4.56877e-12	1.00000	6.39300e-12	1.000000
rad27	1.00012e-12	1.00000	1.39945e-12	1.000000

1000.00000 Pa, 3500.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.05713e-10	(1.00)	7.59652e-11	(1.00)
Formation of rad11	1.77412e-11	(0.168)	6.37269e-12	(0.0839)
Formation of rad6	2.86822e-11	(0.271)	1.03027e-11	(0.136)
H-abstraction	5.92897e-11	(0.561)	5.92897e-11	(0.780)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.780486	0.780486
Phenyl+Allene	0.281403	0.842258	0.00000	0.780486
PhCH2CCH+H	0.0826647	0.924922	0.115037	0.895522
PhCHCCH2+H	0.0360584	0.960981	0.0501790	0.945701
C2H2+PhCH2	0.0122594	0.973240	0.0170601	0.962762
PhCCH+CH3	0.00927075	0.982511	0.0129012	0.975663
PAH7+H	0.00395019	0.986461	0.00549710	0.981160
PhcycC3H3_A+H	0.00334818	0.989809	0.00465935	0.985819
Ph+MeAc	0.00276397	0.992573	0.00384635	0.989665
Indene+H	0.00257591	0.995149	0.00358465	0.993250
rad19syn	0.00187239	0.997022	0.00260561	0.995856
rad54	0.000820548	0.997842	0.00114187	0.996998
rad39	0.000383081	0.998225	0.000533097	0.997531
PAH1+H	0.000234603	0.998460	0.000326475	0.997857
rad19anti	0.000198618	0.998658	0.000276397	0.998134
PAH9+H	0.000165211	0.998824	0.000229908	0.998363
rad56	0.000126879	0.998950	0.000176565	0.998540
rad38	0.000111221	0.999062	0.000154776	0.998695
rad50	9.85952e-05	0.999160	0.000137205	0.998832
PhCCCH3+H	9.42432e-05	0.999255	0.000131149	0.998963
rad55	9.15807e-05	0.999346	0.000127444	0.999091
rad53	8.16819e-05	0.999428	0.000113669	0.999204
rad70	7.02698e-05	0.999498	9.77877e-05	0.999302
PAH3+H	6.99229e-05	0.999568	9.73050e-05	0.999399
rad51	5.98898e-05	0.999628	8.33430e-05	0.999483
PAH10+CH3	5.76132e-05	0.999685	8.01750e-05	0.999563
rad67	4.43734e-05	0.999730	6.17498e-05	0.999625
rad46	4.41960e-05	0.999774	6.15033e-05	0.999686
PAH8+H	4.26958e-05	0.999817	5.94155e-05	0.999746
rad35	4.02780e-05	0.999857	5.60510e-05	0.999802
rad34	2.74954e-05	0.999885	3.82627e-05	0.999840
rad71	2.01788e-05	0.999905	2.80809e-05	0.999868
rad62	1.37135e-05	0.999918	1.90837e-05	0.999887
rad52	1.21556e-05	0.999931	1.69158e-05	0.999904
rad30	1.02913e-05	0.999941	1.43214e-05	0.999918
rad73	8.17812e-06	0.999949	1.13807e-05	0.999930
rad37	7.96588e-06	0.999957	1.10853e-05	0.999941
rad64	6.47652e-06	0.999963	9.01273e-06	0.999950
rad68syn	6.33630e-06	0.999970	8.81763e-06	0.999959
rad59	5.10463e-06	0.999975	7.10362e-06	0.999966
rad68anti	4.04071e-06	0.999979	5.62306e-06	0.999971
rad40syn	3.59910e-06	0.999983	5.00853e-06	0.999976
rad42	2.66373e-06	0.999985	3.70685e-06	0.999980
rad40anti	2.63329e-06	0.999988	3.66448e-06	0.999984
rad60syn	2.53257e-06	0.999990	3.52432e-06	0.999987
rad72	2.39473e-06	0.999993	3.33251e-06	0.999991
rad60anti	1.86455e-06	0.999995	2.59470e-06	0.999993
rad58	1.49821e-06	0.999996	2.08491e-06	0.999995
rad65	1.38012e-06	0.999998	1.92057e-06	0.999997
rad6	1.10924e-06	0.999999	1.54362e-06	0.999999
rad43	4.42483e-07	0.999999	6.15760e-07	0.999999
rad61	3.67294e-07	0.999999	5.11128e-07	1.000000
rad41	8.98935e-08	1.000000	1.25096e-07	1.000000
rad7	4.86318e-08	1.000000	6.76765e-08	1.000000
rad11	3.12026e-08	1.000000	4.34217e-08	1.000000
rad23	9.25714e-09	1.000000	1.28822e-08	1.000000

rad13	7.39481e-09	1.000000	1.02906e-08	1.00000
rad9	5.78192e-09	1.000000	8.04612e-09	1.00000
rad28	3.85173e-09	1.000000	5.36008e-09	1.00000
rad45	3.19052e-09	1.000000	4.43994e-09	1.00000
rad21	1.58072e-09	1.000000	2.19973e-09	1.00000
rad22	1.03493e-09	1.000000	1.44021e-09	1.00000
rad33	8.00667e-10	1.000000	1.11421e-09	1.00000
rad36	5.94405e-10	1.000000	8.27174e-10	1.00000
rad15	4.74874e-10	1.000000	6.60837e-10	1.00000
rad20	3.70217e-10	1.000000	5.15196e-10	1.00000
rad12	2.06177e-10	1.000000	2.86916e-10	1.00000
rad25	1.95907e-10	1.000000	2.72624e-10	1.00000
rad26	1.50696e-10	1.000000	2.09709e-10	1.00000
rad47	1.23221e-10	1.000000	1.71475e-10	1.00000
rad24	1.20919e-10	1.000000	1.68271e-10	1.00000
rad8	1.05938e-10	1.000000	1.47423e-10	1.00000
rad10	7.28459e-11	1.000000	1.01372e-10	1.00000
rad18	6.68305e-11	1.000000	9.30012e-11	1.00000
rad3	1.88413e-11	1.000000	2.62195e-11	1.00000
rad14	1.85063e-11	1.000000	2.57534e-11	1.00000
rad4	1.14382e-11	1.000000	1.59174e-11	1.00000
rad2	1.07095e-11	1.000000	1.49034e-11	1.00000
rad5	4.51059e-12	1.000000	6.27697e-12	1.00000
rad1	2.45595e-12	1.000000	3.41771e-12	1.00000
rad27	7.41949e-13	1.000000	1.03249e-12	1.00000

1000.00000 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.33217e-10 (1.00)	9.62713e-11 (1.00)
Formation of rad11	2.17064e-11 (0.163)	7.68284e-12 (0.0798)
Formation of rad6	3.54800e-11 (0.266)	1.25579e-11 (0.130)
H-abstraction	7.60305e-11 (0.571)	7.60305e-11 (0.790)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789753	0.789753
Phenyl+Allene	0.277335	0.848062	0.00000	0.789753
PhCH2CCH+H	0.0801942	0.928256	0.110970	0.900723
PhCHCCH2+H	0.0343186	0.962575	0.0474889	0.948212
C2H2+PhCH2	0.0118839	0.974459	0.0164446	0.964657
PhCCH+CH3	0.00852832	0.982987	0.0118012	0.976458
PhcycC3H3_A+H	0.00372859	0.986715	0.00515950	0.981618
PAH7+H	0.00365082	0.990366	0.00505190	0.986669
Ph+MeAc	0.00270112	0.993067	0.00373773	0.990407
Indene+H	0.00199909	0.995067	0.00276628	0.993173
rad19syn	0.00195357	0.997020	0.00270329	0.995877
rad54	0.000841040	0.997861	0.00116380	0.997041
rad39	0.000340486	0.998202	0.000471155	0.997512
PAH1+H	0.000258940	0.998461	0.000358313	0.997870
rad19anti	0.000171607	0.998632	0.000237463	0.998107
rad56	0.000150424	0.998783	0.000208151	0.998316
PAH9+H	0.000142283	0.998925	0.000196886	0.998512
rad50	9.78326e-05	0.999023	0.000135378	0.998648
rad38	9.76196e-05	0.999120	0.000135083	0.998783
rad55	9.60223e-05	0.999216	0.000132873	0.998916
rad53	9.35454e-05	0.999310	0.000129445	0.999045
PhCCCH3+H	8.63456e-05	0.999396	0.000119482	0.999165
PAH3+H	7.46029e-05	0.999471	0.000103233	0.999268
rad70	7.27720e-05	0.999544	0.000100699	0.999369
rad51	6.27429e-05	0.999606	8.68219e-05	0.999455
PAH10+CH3	5.64592e-05	0.999663	7.81263e-05	0.999534
PAH8+H	5.49594e-05	0.999718	7.60509e-05	0.999610
rad67	4.41357e-05	0.999762	6.10738e-05	0.999671
rad46	4.00081e-05	0.999802	5.53620e-05	0.999726
rad35	3.73481e-05	0.999839	5.16810e-05	0.999778
rad34	2.95156e-05	0.999869	4.08428e-05	0.999819
rad71	2.56962e-05	0.999894	3.55576e-05	0.999854
rad62	1.78774e-05	0.999912	2.47383e-05	0.999879
rad52	1.22837e-05	0.999925	1.69978e-05	0.999896
rad73	9.91569e-06	0.999935	1.37210e-05	0.999910
rad30	9.58068e-06	0.999944	1.32574e-05	0.999923
rad68syn	7.51163e-06	0.999952	1.03944e-05	0.999933
rad64	7.08729e-06	0.999959	9.80715e-06	0.999943
rad37	6.84802e-06	0.999966	9.47608e-06	0.999953
rad59	5.31873e-06	0.999971	7.35988e-06	0.999960
rad68anti	4.78631e-06	0.999976	6.62315e-06	0.999967
rad40syn	4.46920e-06	0.999980	6.18433e-06	0.999973
rad42	3.72298e-06	0.999984	5.15174e-06	0.999978

rad72	3.34159e-06	0.999987	4.62398e-06	0.999983
rad40anti	3.31733e-06	0.999991	4.59040e-06	0.999987
rad60syn	2.53368e-06	0.999993	3.50603e-06	0.999991
rad60anti	1.87709e-06	0.999995	2.59747e-06	0.999993
rad58	1.70811e-06	0.999997	2.36364e-06	0.999996
rad65	1.42165e-06	0.999998	1.96724e-06	0.999998
rad6	5.95054e-07	0.999999	8.23415e-07	0.999998
rad43	5.13745e-07	0.999999	7.10903e-07	0.999999
rad61	4.03904e-07	1.000000	5.58910e-07	1.000000
rad41	1.13558e-07	1.000000	1.57138e-07	1.000000
rad7	2.97787e-08	1.000000	4.12067e-08	1.000000
rad11	1.91119e-08	1.000000	2.64465e-08	1.000000
rad13	4.78991e-09	1.000000	6.62814e-09	1.000000
rad23	4.66637e-09	1.000000	6.45719e-09	1.000000
rad9	3.19270e-09	1.000000	4.41796e-09	1.000000
rad28	2.03263e-09	1.000000	2.81270e-09	1.000000
rad45	1.76911e-09	1.000000	2.44805e-09	1.000000
rad21	1.06060e-09	1.000000	1.46762e-09	1.000000
rad22	5.89739e-10	1.000000	8.16061e-10	1.000000
rad33	5.47452e-10	1.000000	7.57549e-10	1.000000
rad36	3.31199e-10	1.000000	4.58302e-10	1.000000
rad15	2.75781e-10	1.000000	3.81617e-10	1.000000
rad20	2.68644e-10	1.000000	3.71740e-10	1.000000
rad12	1.42260e-10	1.000000	1.96855e-10	1.000000
rad25	1.36280e-10	1.000000	1.88580e-10	1.000000
rad47	1.26219e-10	1.000000	1.74658e-10	1.000000
rad8	9.34497e-11	1.000000	1.29313e-10	1.000000
rad24	8.26492e-11	1.000000	1.14367e-10	1.000000
rad26	8.24655e-11	1.000000	1.14113e-10	1.000000
rad10	4.25334e-11	1.000000	5.88563e-11	1.000000
rad18	4.25087e-11	1.000000	5.88222e-11	1.000000
rad14	1.59051e-11	1.000000	2.20091e-11	1.000000
rad3	1.21716e-11	1.000000	1.68427e-11	1.000000
rad4	7.57366e-12	1.000000	1.04802e-11	1.000000
rad2	6.39677e-12	1.000000	8.85164e-12	1.000000
rad5	3.59668e-12	1.000000	4.97696e-12	1.000000
rad1	1.44334e-12	1.000000	1.99724e-12	1.000000
rad27	5.81935e-13	1.000000	8.05262e-13	1.000000

1000.00000 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.65008e-10 (1.00)	1.19912e-10 (1.00)
Formation of rad11	2.61707e-11 (0.159)	9.15558e-12 (0.0764)
Formation of rad6	4.31906e-11 (0.262)	1.51098e-11 (0.126)
H-abstraction	9.56470e-11 (0.580)	9.56470e-11 (0.798)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.579650	0.579650	0.797640	0.797640
Phenyl+Allene	0.273295	0.852944	0.000000	0.797640
PhCH2CCH+H	0.0779435	0.930888	0.107256	0.904896
PhCHCCH2+H	0.0328766	0.963764	0.0452407	0.950137
C2H2+PhCH2	0.0116508	0.975415	0.0160324	0.966169
PhCCH+CH3	0.00792125	0.983336	0.0109002	0.977070
PhcycC3H3_A+H	0.00405639	0.987393	0.00558189	0.982652
PAH7+H	0.00338057	0.990773	0.00465190	0.987303
Ph+MeAc	0.00265534	0.993429	0.00365395	0.990957
rad19syn	0.00200699	0.995436	0.00276176	0.993719
Indene+H	0.00158850	0.997024	0.00218589	0.995905
rad54	0.000847464	0.997872	0.00116618	0.997071
rad39	0.000304998	0.998177	0.000419700	0.997491
PAH1+H	0.000284129	0.998461	0.000390983	0.997882
rad56	0.000172243	0.998633	0.000237018	0.998119
rad19anti	0.000149971	0.998783	0.000206370	0.998325
PAH9+H	0.000121726	0.998905	0.000167504	0.998493
rad53	0.000103935	0.999009	0.000143023	0.998636
rad55	9.87029e-05	0.999107	0.000135823	0.998772
rad50	9.49282e-05	0.999202	0.000130628	0.998902
rad38	8.48465e-05	0.999287	0.000116755	0.999019
PhCCCH3+H	8.02201e-05	0.999367	0.000110389	0.999129
PAH3+H	7.84218e-05	0.999446	0.000107914	0.999237
rad70	7.43978e-05	0.999520	0.000102377	0.999340
PAH8+H	6.80304e-05	0.999588	9.36148e-05	0.999433
rad51	6.37466e-05	0.999652	8.77201e-05	0.999521
PAH10+CH3	5.48772e-05	0.999707	7.55151e-05	0.999597
rad67	4.35164e-05	0.999750	5.98816e-05	0.999656
rad46	3.57769e-05	0.999786	4.92317e-05	0.999706
rad35	3.46386e-05	0.999821	4.76654e-05	0.999753

rad34	3.11445e-05	0.999852	4.28571e-05	0.999796
rad71	3.10692e-05	0.999883	4.27535e-05	0.999839
rad62	2.32402e-05	0.999906	3.19803e-05	0.999871
rad52	1.20857e-05	0.999918	1.66308e-05	0.999888
rad73	1.14745e-05	0.999930	1.57898e-05	0.999903
rad30	8.93295e-06	0.999939	1.22924e-05	0.999916
rad68syn	8.64434e-06	0.999947	1.18953e-05	0.999927
rad64	7.61309e-06	0.999955	1.04762e-05	0.999938
rad37	5.91715e-06	0.999961	8.14246e-06	0.999946
rad68anti	5.50424e-06	0.999966	7.57426e-06	0.999954
rad59	5.47385e-06	0.999972	7.53239e-06	0.999961
rad40syn	5.36174e-06	0.999977	7.37813e-06	0.999969
rad42	5.12159e-06	0.999982	7.04768e-06	0.999976
rad72	4.38161e-06	0.999987	6.02941e-06	0.999982
rad40anti	4.03128e-06	0.999991	5.54734e-06	0.999987
rad60syn	2.51668e-06	0.999993	3.46314e-06	0.999991
rad58	1.90268e-06	0.999995	2.61823e-06	0.999993
rad60anti	1.87486e-06	0.999997	2.57994e-06	0.999996
rad65	1.42577e-06	0.999998	1.96196e-06	0.999998
rad43	6.01858e-07	0.999999	8.28197e-07	0.999999
rad61	4.34041e-07	0.999999	5.97272e-07	0.999999
rad6	3.41900e-07	1.000000	4.70480e-07	1.000000
rad41	1.43046e-07	1.000000	1.96842e-07	1.000000
rad7	1.90877e-08	1.000000	2.62661e-08	1.000000
rad11	1.23822e-08	1.000000	1.70389e-08	1.000000
rad13	3.24600e-09	1.000000	4.46672e-09	1.000000
rad23	2.49025e-09	1.000000	3.42678e-09	1.000000
rad9	1.86505e-09	1.000000	2.56645e-09	1.000000
rad28	1.14580e-09	1.000000	1.57670e-09	1.000000
rad45	1.02101e-09	1.000000	1.40498e-09	1.000000
rad21	7.41221e-10	1.000000	1.01998e-09	1.000000
rad33	3.85321e-10	1.000000	5.30231e-10	1.000000
rad22	3.58478e-10	1.000000	4.93292e-10	1.000000
rad20	2.04132e-10	1.000000	2.80901e-10	1.000000
rad36	1.91726e-10	1.000000	2.63830e-10	1.000000
rad15	1.67945e-10	1.000000	2.31105e-10	1.000000
rad47	1.25517e-10	1.000000	1.72721e-10	1.000000
rad12	1.01357e-10	1.000000	1.39475e-10	1.000000
rad25	9.80993e-11	1.000000	1.34992e-10	1.000000
rad8	8.21814e-11	1.000000	1.13088e-10	1.000000
rad24	5.80874e-11	1.000000	7.99326e-11	1.000000
rad26	4.75471e-11	1.000000	6.54281e-11	1.000000
rad18	2.83351e-11	1.000000	3.89913e-11	1.000000
rad10	2.60140e-11	1.000000	3.57972e-11	1.000000
rad14	1.45802e-11	1.000000	2.00634e-11	1.000000
rad3	8.24042e-12	1.000000	1.13394e-11	1.000000
rad4	5.28935e-12	1.000000	7.27857e-12	1.000000
rad2	4.05865e-12	1.000000	5.58500e-12	1.000000
rad5	2.94239e-12	1.000000	4.04895e-12	1.000000
rad1	9.12909e-13	1.000000	1.25623e-12	1.000000
rad27	4.81322e-13	1.000000	6.62337e-13	1.000000

100.000000 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.56740e-51 (1.00)	1.56740e-51 (1.00)
Formation of rad11	1.56740e-51 (1.000)	1.56740e-51 (1.000)
Formation of rad6	3.73945e-60 (2.39e-09)	3.73945e-60 (2.39e-09)
H-abstraction	1.53631e-76 (9.80e-26)	1.53631e-76 (9.80e-26)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.788831	0.788831	0.788831	0.788831
rad6	0.200678	0.989509	0.200678	0.989509
rad22	0.00530849	0.994817	0.00530849	0.994817
Indene+H	0.00373145	0.998549	0.00373145	0.998549
rad23	0.000601371	0.999150	0.000601371	0.999150
rad45	0.000563600	0.999714	0.000563600	0.999714
rad18	0.000127460	0.999841	0.000127460	0.999841
C2H2+PhCH2	5.41289e-05	0.999895	5.41289e-05	0.999895
rad36	3.51182e-05	0.999931	3.51182e-05	0.999931
rad20	2.64523e-05	0.999957	2.64523e-05	0.999957
rad7	2.23104e-05	0.999979	2.23104e-05	0.999979
rad21	1.71210e-05	0.999997	1.71210e-05	0.999997
rad25	2.93912e-06	0.999999	2.93912e-06	0.999999
rad13	5.86026e-07	1.000000	5.86026e-07	1.000000
PhCHCCH2+H	2.58057e-07	1.000000	2.58057e-07	1.000000
rad3	1.50924e-08	1.000000	1.50924e-08	1.000000
rad9	1.34267e-08	1.000000	1.34267e-08	1.000000

rad4	7.63602e-09	1.00000	7.63602e-09	1.00000
rad30	2.06211e-09	1.00000	2.06211e-09	1.00000
rad33	7.29712e-10	1.00000	7.29712e-10	1.00000
rad28	5.50065e-10	1.00000	5.50065e-10	1.00000
rad15	3.37315e-10	1.00000	3.37315e-10	1.00000
rad2	3.13323e-10	1.00000	3.13323e-10	1.00000
Phenyl+Allene	1.57687e-10	1.00000	0.00000	1.00000
rad1	1.98422e-11	1.00000	1.98422e-11	1.00000
rad24	7.59518e-12	1.00000	7.59518e-12	1.00000
rad38	1.95872e-12	1.00000	1.95872e-12	1.00000
PhCCH+CH3	1.48953e-12	1.00000	1.48953e-12	1.00000
rad8	6.57171e-13	1.00000	6.57171e-13	1.00000
rad10	4.38991e-13	1.00000	4.38991e-13	1.00000
PAH9+H	4.05136e-13	1.00000	4.05136e-13	1.00000
rad35	2.32039e-13	1.00000	2.32039e-13	1.00000
rad14	1.13910e-13	1.00000	1.13910e-13	1.00000
rad46	9.25614e-15	1.00000	9.25614e-15	1.00000
rad60syn	6.17447e-15	1.00000	6.17447e-15	1.00000
PhCH2CCH+H	3.96977e-16	1.00000	3.96977e-16	1.00000
rad27	2.58372e-16	1.00000	2.58372e-16	1.00000
rad60anti	2.37493e-16	1.00000	2.37493e-16	1.00000
PhCCCH3+H	1.47916e-16	1.00000	1.47916e-16	1.00000
Ph+MeAc	3.69945e-17	1.00000	3.69945e-17	1.00000
rad26	6.82160e-18	1.00000	6.82160e-18	1.00000
rad31	4.78197e-18	1.00000	4.78197e-18	1.00000
PAH7+H	1.78875e-18	1.00000	1.78875e-18	1.00000
rad39	9.72177e-20	1.00000	9.72177e-20	1.00000
PAH3+H	1.06361e-23	1.00000	1.06361e-23	1.00000
rad59	5.33832e-24	1.00000	5.33832e-24	1.00000
Benzene+2-propynyl	9.80165e-26	1.00000	9.80165e-26	1.00000
rad50	6.15348e-26	1.00000	6.15348e-26	1.00000
rad12	1.40038e-26	1.00000	1.40038e-26	1.00000
rad5	2.80613e-27	1.00000	2.80613e-27	1.00000
rad37	8.53443e-30	1.00000	8.53443e-30	1.00000
rad19syn	3.55955e-32	1.00000	3.55955e-32	1.00000
rad52	1.42920e-34	1.00000	1.42920e-34	1.00000
rad54	1.42146e-35	1.00000	1.42146e-35	1.00000
rad62	1.74039e-38	1.00000	1.74039e-38	1.00000
rad43	1.61556e-38	1.00000	1.61556e-38	1.00000
rad51	1.36867e-39	1.00000	1.36867e-39	1.00000
PAH10+CH3	6.56192e-41	1.00000	6.56192e-41	1.00000
rad70	3.56740e-41	1.00000	3.56740e-41	1.00000
PhcycC3H3_A+H	3.98620e-42	1.00000	3.98620e-42	1.00000
rad55	1.96166e-42	1.00000	1.96166e-42	1.00000
rad65	1.84823e-43	1.00000	1.84823e-43	1.00000
rad58	9.08710e-45	1.00000	9.08710e-45	1.00000
rad34	2.40628e-47	1.00000	2.40628e-47	1.00000
PAH1+H	1.52833e-47	1.00000	1.52833e-47	1.00000
rad47	3.77606e-48	1.00000	3.77606e-48	1.00000
rad42	1.16160e-50	1.00000	1.16160e-50	1.00000
rad41	4.76995e-52	1.00000	4.76995e-52	1.00000

100.000000 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.03204e-39 (1.00)	5.03204e-39 (1.00)
Formation of rad11	5.03203e-39 (1.000)	5.03203e-39 (1.000)
Formation of rad6	9.92181e-45 (1.97e-06)	9.92181e-45 (1.97e-06)
H-abstraction	3.33191e-55 (6.62e-17)	3.33191e-55 (6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.626667	0.626667	0.626667	0.626667
rad6	0.354558	0.981225	0.354558	0.981225
Indene+H	0.00877246	0.989997	0.00877246	0.989997
rad22	0.00728646	0.997284	0.00728646	0.997284
rad23	0.00175409	0.999038	0.00175409	0.999038
rad45	0.000677597	0.999716	0.000677597	0.999716
C2H2+PhCH2	0.000105168	0.999821	0.000105168	0.999821
rad7	6.53219e-05	0.999886	6.53219e-05	0.999886
rad18	5.24530e-05	0.999939	5.24530e-05	0.999939
rad36	4.22023e-05	0.999981	4.22023e-05	0.999981
rad20	8.60624e-06	0.999989	8.60624e-06	0.999989
rad21	5.46511e-06	0.999995	5.46511e-06	0.999995
rad25	3.81602e-06	0.999999	3.81602e-06	0.999999
rad13	7.95017e-07	0.999999	7.95017e-07	0.999999
PhCHCCH2+H	4.88081e-07	1.000000	4.88081e-07	1.000000
rad3	5.59248e-08	1.000000	5.59248e-08	1.000000
rad4	2.82883e-08	1.000000	2.82883e-08	1.000000

rad9	2.56331e-08	1.00000	2.56331e-08	1.00000
rad30	4.56812e-09	1.00000	4.56812e-09	1.00000
rad2	2.40642e-09	1.00000	2.40642e-09	1.00000
rad28	2.11864e-09	1.00000	2.11864e-09	1.00000
rad33	9.47773e-10	1.00000	9.47773e-10	1.00000
rad15	7.62468e-10	1.00000	7.62468e-10	1.00000
Phenyl+Allene	3.35130e-10	1.00000	0.00000	1.00000
rad1	1.52331e-10	1.00000	1.52331e-10	1.00000
PhCCH+CH3	1.17822e-11	1.00000	1.17822e-11	1.00000
rad24	7.53104e-12	1.00000	7.53104e-12	1.00000
rad38	6.82443e-12	1.00000	6.82443e-12	1.00000
rad10	6.79860e-12	1.00000	6.79860e-12	1.00000
PAH9+H	2.82989e-12	1.00000	2.82989e-12	1.00000
rad35	1.61185e-12	1.00000	1.61185e-12	1.00000
rad8	1.48061e-12	1.00000	1.48061e-12	1.00000
rad14	8.21073e-13	1.00000	8.21073e-13	1.00000
rad46	3.35378e-14	1.00000	3.35378e-14	1.00000
rad60syn	1.65086e-14	1.00000	1.65086e-14	1.00000
rad27	2.63940e-15	1.00000	2.63940e-15	1.00000
PhCCCH3+H	2.38285e-15	1.00000	2.38285e-15	1.00000
PhCH2CCH+H	6.16671e-16	1.00000	6.16671e-16	1.00000
rad60anti	5.42481e-16	1.00000	5.42481e-16	1.00000
Ph+MeAc	3.17187e-16	1.00000	3.17187e-16	1.00000
rad26	2.17474e-16	1.00000	2.17474e-16	1.00000
Benzene+2-propynyl	6.62139e-17	1.00000	6.62139e-17	1.00000
rad31	1.77788e-17	1.00000	1.77788e-17	1.00000
PAH7+H	9.87825e-18	1.00000	9.87825e-18	1.00000
rad39	8.06712e-19	1.00000	8.06712e-19	1.00000
PAH3+H	1.28895e-23	1.00000	1.28895e-23	1.00000
rad59	6.54376e-24	1.00000	6.54376e-24	1.00000
rad12	9.03824e-25	1.00000	9.03824e-25	1.00000
rad50	1.59488e-25	1.00000	1.59488e-25	1.00000
rad5	3.93915e-26	1.00000	3.93915e-26	1.00000
rad37	4.81939e-28	1.00000	4.81939e-28	1.00000
rad19syn	1.08362e-31	1.00000	1.08362e-31	1.00000
rad52	2.78493e-34	1.00000	2.78493e-34	1.00000
rad54	3.80897e-35	1.00000	3.80897e-35	1.00000
rad43	1.34598e-37	1.00000	1.34598e-37	1.00000
rad62	6.26039e-38	1.00000	6.26039e-38	1.00000
rad51	2.68364e-39	1.00000	2.68364e-39	1.00000
PAH10+CH3	1.86972e-39	1.00000	1.86972e-39	1.00000
rad70	1.87384e-41	1.00000	1.87384e-41	1.00000
PhcycC3H3_A+H	1.08440e-41	1.00000	1.08440e-41	1.00000
rad55	5.25031e-42	1.00000	5.25031e-42	1.00000
rad65	3.89471e-43	1.00000	3.89471e-43	1.00000
rad58	5.81724e-45	1.00000	5.81724e-45	1.00000
PAH1+H	8.35780e-47	1.00000	8.35780e-47	1.00000
rad34	5.00450e-47	1.00000	5.00450e-47	1.00000
rad47	4.24159e-48	1.00000	4.24159e-48	1.00000
rad42	3.48694e-50	1.00000	3.48694e-50	1.00000
rad41	2.68518e-51	1.00000	2.68518e-51	1.00000

100.000000 Pa, 40.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.35697e-33 (1.00)	9.35697e-33 (1.00)
Formation of rad11	9.35644e-33 (1.000)	9.35644e-33 (1.000)
Formation of rad6	5.26139e-37 (5.62e-05)	5.26139e-37 (5.62e-05)
H-abstraction	1.44763e-44 (1.55e-12)	1.44763e-44 (1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad11	0.505304	0.505304	0.505304	0.505304
rad6	0.469500	0.974804	0.469500	0.974804
Indene+H	0.0136611	0.988465	0.0136611	0.988465
rad22	0.00762441	0.996090	0.00762441	0.996090
rad23	0.00289544	0.998985	0.00289544	0.998985
rad45	0.000675697	0.999661	0.000675697	0.999661
C2H2+PhCH2	0.000148581	0.999809	0.000148581	0.999809
rad7	0.000109005	0.999918	0.000109005	0.999918
rad36	4.20564e-05	0.999960	4.20564e-05	0.999960
rad18	2.75540e-05	0.999988	2.75540e-05	0.999988
rad20	4.03910e-06	0.999992	4.03910e-06	0.999992
rad25	3.90893e-06	0.999996	3.90893e-06	0.999996
rad21	2.54251e-06	0.999998	2.54251e-06	0.999998
rad13	9.15288e-07	0.999999	9.15288e-07	0.999999
PhCHCCH2+H	7.04037e-07	1.000000	7.04037e-07	1.000000
rad3	1.14167e-07	1.00000	1.14167e-07	1.00000
rad4	5.77595e-08	1.00000	5.77595e-08	1.00000

rad9	3.75154e-08	1.00000	3.75154e-08	1.00000
rad2	7.53573e-09	1.00000	7.53573e-09	1.00000
rad30	6.79729e-09	1.00000	6.79729e-09	1.00000
rad28	4.50585e-09	1.00000	4.50585e-09	1.00000
rad15	1.15004e-09	1.00000	1.15004e-09	1.00000
rad33	1.07322e-09	1.00000	1.07322e-09	1.00000
Phenyl+Allene	6.28071e-10	1.00000	0.00000	1.00000
rad1	4.77460e-10	1.00000	4.77460e-10	1.00000
PhCCH+CH3	3.86517e-11	1.00000	3.86517e-11	1.00000
rad10	3.19170e-11	1.00000	3.19170e-11	1.00000
rad38	1.32078e-11	1.00000	1.32078e-11	1.00000
PAH9+H	8.02608e-12	1.00000	8.02608e-12	1.00000
rad24	6.89583e-12	1.00000	6.89583e-12	1.00000
rad35	4.54472e-12	1.00000	4.54472e-12	1.00000
rad8	2.51036e-12	1.00000	2.51036e-12	1.00000
rad14	2.43949e-12	1.00000	2.43949e-12	1.00000
Benzene+2-propynyl	1.54712e-12	1.00000	1.54712e-12	1.00000
rad46	6.74797e-14	1.00000	6.74797e-14	1.00000
rad60syn	2.88475e-14	1.00000	2.88475e-14	1.00000
PhCCCH3+H	1.19299e-14	1.00000	1.19299e-14	1.00000
rad27	9.15857e-15	1.00000	9.15857e-15	1.00000
rad26	1.58639e-15	1.00000	1.58639e-15	1.00000
Ph+MeAc	1.22953e-15	1.00000	1.22953e-15	1.00000
rad60anti	1.05065e-15	1.00000	1.05065e-15	1.00000
PhCH2CCH+H	9.48014e-16	1.00000	9.48014e-16	1.00000
rad31	3.66832e-17	1.00000	3.66832e-17	1.00000
PAH7+H	3.20848e-17	1.00000	3.20848e-17	1.00000
rad39	2.89903e-18	1.00000	2.89903e-18	1.00000
PAH3+H	1.66502e-23	1.00000	1.66502e-23	1.00000
rad12	1.06355e-23	1.00000	1.06355e-23	1.00000
rad59	8.50919e-24	1.00000	8.50919e-24	1.00000
rad50	3.46099e-25	1.00000	3.46099e-25	1.00000
rad5	2.19522e-25	1.00000	2.19522e-25	1.00000
rad37	5.72556e-27	1.00000	5.72556e-27	1.00000
rad19syn	2.72476e-31	1.00000	2.72476e-31	1.00000
rad52	6.13237e-34	1.00000	6.13237e-34	1.00000
rad54	9.55936e-35	1.00000	9.55936e-35	1.00000
rad43	6.27074e-37	1.00000	6.27074e-37	1.00000
rad62	1.78788e-37	1.00000	1.78788e-37	1.00000
PAH10+CH3	1.64373e-38	1.00000	1.64373e-38	1.00000
rad51	6.17956e-39	1.00000	6.17956e-39	1.00000
rad70	4.26310e-41	1.00000	4.26310e-41	1.00000
PhcycC3H3_A+H	2.89405e-41	1.00000	2.89405e-41	1.00000
rad55	1.39254e-41	1.00000	1.39254e-41	1.00000
rad65	8.85020e-43	1.00000	8.85020e-43	1.00000
rad58	1.40102e-44	1.00000	1.40102e-44	1.00000
PAH1+H	3.36695e-46	1.00000	3.36695e-46	1.00000
rad34	1.38899e-46	1.00000	1.38899e-46	1.00000
rad47	6.98526e-48	1.00000	6.98526e-48	1.00000
rad42	1.05850e-49	1.00000	1.05850e-49	1.00000
rad41	1.17493e-50	1.00000	1.17493e-50	1.00000

100.000000 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.52690e-29 (1.00)	5.52690e-29 (1.00)
Formation of rad11	5.52459e-29 (1.000)	5.52459e-29 (1.000)
Formation of rad6	2.30840e-32 (0.000418)	2.30840e-32 (0.000418)
H-abstraction	3.35357e-38 (6.07e-10)	3.35357e-38 (6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.558648	0.558648	0.558648	0.558648
rad11	0.410969	0.969617	0.410969	0.969617
Indene+H	0.0181552	0.987772	0.0181552	0.987772
rad22	0.00725538	0.995028	0.00725538	0.995028
rad23	0.00391306	0.998941	0.00391306	0.998941
rad45	0.000656623	0.999597	0.000656623	0.999597
C2H2+PhCH2	0.000187769	0.999785	0.000187769	0.999785
rad7	0.000148289	0.999933	0.000148289	0.999933
rad36	4.08363e-05	0.999974	4.08363e-05	0.999974
rad18	1.63295e-05	0.999990	1.63295e-05	0.999990
rad25	3.70176e-06	0.999994	3.70176e-06	0.999994
rad20	2.22291e-06	0.999996	2.22291e-06	0.999996
rad21	1.39205e-06	0.999998	1.39205e-06	0.999998
rad13	9.92558e-07	0.999999	9.92558e-07	0.999999
PhCHCCH2+H	9.23495e-07	1.000000	9.23495e-07	1.000000
rad3	1.86629e-07	1.000000	1.86629e-07	1.000000
rad4	9.44554e-08	1.000000	9.44554e-08	1.000000

rad9	5.01070e-08	1.00000	5.01070e-08	1.00000
rad2	1.69050e-08	1.00000	1.69050e-08	1.00000
rad30	8.88338e-09	1.00000	8.88338e-09	1.00000
rad28	7.70895e-09	1.00000	7.70895e-09	1.00000
rad15	1.52200e-09	1.00000	1.52200e-09	1.00000
rad33	1.15419e-09	1.00000	1.15419e-09	1.00000
Phenyl+Allene	1.14353e-09	1.00000	0.00000	1.00000
rad1	1.07280e-09	1.00000	1.07280e-09	1.00000
Benzene+2-propynyl	6.06773e-10	1.00000	6.06773e-10	1.00000
rad10	9.61909e-11	1.00000	9.61909e-11	1.00000
PhCCH+CH3	9.23395e-11	1.00000	9.23395e-11	1.00000
rad38	2.08355e-11	1.00000	2.08355e-11	1.00000
PAH9+H	1.64087e-11	1.00000	1.64087e-11	1.00000
rad35	9.23131e-12	1.00000	9.23131e-12	1.00000
rad24	6.37911e-12	1.00000	6.37911e-12	1.00000
rad14	5.22271e-12	1.00000	5.22271e-12	1.00000
rad8	3.93673e-12	1.00000	3.93673e-12	1.00000
rad46	1.10927e-13	1.00000	1.10927e-13	1.00000
rad60syn	4.50422e-14	1.00000	4.50422e-14	1.00000
PhCCCH3+H	3.92702e-14	1.00000	3.92702e-14	1.00000
rad27	2.16303e-14	1.00000	2.16303e-14	1.00000
rad26	6.75407e-15	1.00000	6.75407e-15	1.00000
Ph+MeAc	3.72698e-15	1.00000	3.72698e-15	1.00000
rad60anti	2.17141e-15	1.00000	2.17141e-15	1.00000
PhCH2CCH+H	1.66389e-15	1.00000	1.66389e-15	1.00000
PAH7+H	8.21059e-17	1.00000	8.21059e-17	1.00000
rad31	6.09413e-17	1.00000	6.09413e-17	1.00000
rad39	7.89665e-18	1.00000	7.89665e-18	1.00000
rad12	6.98563e-23	1.00000	6.98563e-23	1.00000
PAH3+H	2.60525e-23	1.00000	2.60525e-23	1.00000
rad59	1.33668e-23	1.00000	1.33668e-23	1.00000
rad5	1.00664e-24	1.00000	1.00664e-24	1.00000
rad50	8.14221e-25	1.00000	8.14221e-25	1.00000
rad37	4.32708e-26	1.00000	4.32708e-26	1.00000
rad19syn	7.62082e-31	1.00000	7.62082e-31	1.00000
rad52	1.61114e-33	1.00000	1.61114e-33	1.00000
rad54	2.74968e-34	1.00000	2.74968e-34	1.00000
rad43	2.90996e-36	1.00000	2.90996e-36	1.00000
rad62	5.71202e-37	1.00000	5.71202e-37	1.00000
PAH10+CH3	1.14832e-37	1.00000	1.14832e-37	1.00000
rad51	1.72580e-38	1.00000	1.72580e-38	1.00000
rad70	1.30742e-40	1.00000	1.30742e-40	1.00000
PhcycC3H3_A+H	9.07572e-41	1.00000	9.07572e-41	1.00000
rad55	4.34537e-41	1.00000	4.34537e-41	1.00000
rad65	2.47508e-42	1.00000	2.47508e-42	1.00000
rad58	4.36837e-44	1.00000	4.36837e-44	1.00000
PAH1+H	1.43348e-45	1.00000	1.43348e-45	1.00000
rad34	4.62466e-46	1.00000	4.62466e-46	1.00000
rad47	1.60815e-47	1.00000	1.60815e-47	1.00000
rad42	3.92041e-49	1.00000	3.92041e-49	1.00000
rad41	5.88314e-50	1.00000	5.88314e-50	1.00000

100.000000 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.83429e-26 (1.00)	1.83429e-26 (1.00)
Formation of rad11	1.83139e-26 (0.998)	1.83139e-26 (0.998)
Formation of rad6	2.90471e-29 (0.00158)	2.90471e-29 (0.00158)
H-abstraction	5.71259e-34 (3.11e-08)	5.71259e-34 (3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.629403	0.629403	0.629403	0.629403
rad11	0.335939	0.965342	0.335939	0.965342
Indene+H	0.0221758	0.987518	0.0221758	0.987518
rad22	0.00658624	0.994104	0.00658624	0.994104
rad23	0.00478987	0.998894	0.00478987	0.998894
rad45	0.000640992	0.999535	0.000640992	0.999535
C2H2+PhCH2	0.000224241	0.999759	0.000224241	0.999759
rad7	0.000182083	0.999941	0.000182083	0.999941
rad36	3.98307e-05	0.999981	3.98307e-05	0.999981
rad18	1.03792e-05	0.999991	1.03792e-05	0.999991
rad25	3.37490e-06	0.999995	3.37490e-06	0.999995
rad20	1.33880e-06	0.999996	1.33880e-06	0.999996
PhCHCCH2+H	1.15388e-06	0.999997	1.15388e-06	0.999997
rad13	1.04441e-06	0.999998	1.04441e-06	0.999998
rad21	8.35545e-07	0.999999	8.35545e-07	0.999999
rad3	2.72055e-07	0.999999	2.72055e-07	0.999999
rad4	1.37761e-07	1.000000	1.37761e-07	1.000000

rad9	6.38774e-08	1.000000	6.38774e-08	1.000000
rad2	3.19866e-08	1.000000	3.19866e-08	1.000000
Benzene+2-propynyl	3.11432e-08	1.000000	3.11432e-08	1.000000
rad28	1.18201e-08	1.000000	1.18201e-08	1.000000
rad30	1.08957e-08	1.000000	1.08957e-08	1.000000
rad1	2.03409e-09	1.000000	2.03409e-09	1.000000
Phenyl+Allene	2.00247e-09	1.000000	0.000000	1.000000
rad15	1.89010e-09	1.000000	1.89010e-09	1.000000
rad33	1.20898e-09	1.000000	1.20898e-09	1.000000
rad10	2.31532e-10	1.000000	2.31532e-10	1.000000
PhCCH+CH3	1.88903e-10	1.000000	1.88903e-10	1.000000
rad38	2.97063e-11	1.000000	2.97063e-11	1.000000
PAH9+H	2.83831e-11	1.000000	2.83831e-11	1.000000
rad35	1.58577e-11	1.000000	1.58577e-11	1.000000
rad14	9.44399e-12	1.000000	9.44399e-12	1.000000
rad24	6.03173e-12	1.000000	6.03173e-12	1.000000
rad8	5.91485e-12	1.000000	5.91485e-12	1.000000
rad46	1.65089e-13	1.000000	1.65089e-13	1.000000
PhCCCH3+H	1.05731e-13	1.000000	1.05731e-13	1.000000
rad60syn	6.69546e-14	1.000000	6.69546e-14	1.000000
rad27	4.21952e-14	1.000000	4.21952e-14	1.000000
rad26	2.20890e-14	1.000000	2.20890e-14	1.000000
Ph+MeAc	1.02612e-14	1.000000	1.02612e-14	1.000000
rad60anti	4.52639e-15	1.000000	4.52639e-15	1.000000
PhCH2CCH+H	3.52019e-15	1.000000	3.52019e-15	1.000000
PAH7+H	1.88131e-16	1.000000	1.88131e-16	1.000000
rad31	9.06870e-17	1.000000	9.06870e-17	1.000000
rad39	1.91519e-17	1.000000	1.91519e-17	1.000000
rad12	3.57871e-22	1.000000	3.57871e-22	1.000000
PAH3+H	5.11815e-23	1.000000	5.11815e-23	1.000000
rad59	2.63193e-23	1.000000	2.63193e-23	1.000000
rad5	4.85738e-24	1.000000	4.85738e-24	1.000000
rad50	2.17658e-24	1.000000	2.17658e-24	1.000000
rad37	2.95959e-25	1.000000	2.95959e-25	1.000000
rad19syn	2.66627e-30	1.000000	2.66627e-30	1.000000
rad52	5.04850e-33	1.000000	5.04850e-33	1.000000
rad54	1.00234e-33	1.000000	1.00234e-33	1.000000
rad43	1.63972e-35	1.000000	1.63972e-35	1.000000
rad62	2.31938e-36	1.000000	2.31938e-36	1.000000
PAH10+CH3	8.65632e-37	1.000000	8.65632e-37	1.000000
rad51	5.89319e-38	1.000000	5.89319e-38	1.000000
rad70	5.23408e-40	1.000000	5.23408e-40	1.000000
PhcycC3H3_A+H	3.66724e-40	1.000000	3.66724e-40	1.000000
rad55	1.74750e-40	1.000000	1.74750e-40	1.000000
rad65	8.62782e-42	1.000000	8.62782e-42	1.000000
rad58	1.77131e-43	1.000000	1.77131e-43	1.000000
PAH1+H	7.45072e-45	1.000000	7.45072e-45	1.000000
rad34	2.00694e-45	1.000000	2.00694e-45	1.000000
rad47	5.00542e-47	1.000000	5.00542e-47	1.000000
rad42	1.95941e-48	1.000000	1.95941e-48	1.000000
rad41	3.93871e-49	1.000000	3.93871e-49	1.000000

100.000000 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17336e-24 (1.00)	1.17336e-24 (1.00)
Formation of rad11	1.16857e-24 (0.996)	1.16857e-24 (0.996)
Formation of rad6	4.79505e-27 (0.00409)	4.79505e-27 (0.00409)
H-abstraction	5.89821e-31 (5.03e-07)	5.89821e-31 (5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.686420	0.686420	0.686420	0.686420
rad11	0.275376	0.961796	0.275376	0.961796
Indene+H	0.0257060	0.987502	0.0257060	0.987502
rad22	0.00581312	0.993315	0.00581312	0.993315
rad23	0.00553100	0.998846	0.00553100	0.998846
rad45	0.000631141	0.999477	0.000631141	0.999477
C2H2+PhCH2	0.000258725	0.999735	0.000258725	0.999735
rad7	0.000210528	0.999946	0.000210528	0.999946
rad36	3.91875e-05	0.999985	3.91875e-05	0.999985
rad18	6.90264e-06	0.999992	6.90264e-06	0.999992
rad25	3.00863e-06	0.999995	3.00863e-06	0.999995
PhCHCCH2+H	1.39920e-06	0.999997	1.39920e-06	0.999997
rad13	1.07970e-06	0.999998	1.07970e-06	0.999998
rad20	8.54454e-07	0.999998	8.54454e-07	0.999998
rad21	5.32000e-07	0.999999	5.32000e-07	0.999999
Benzene+2-propynyl	5.02676e-07	0.999999	5.02676e-07	0.999999
rad3	3.70129e-07	1.000000	3.70129e-07	1.000000

rad4	1.87538e-07	1.00000	1.87538e-07	1.00000
rad9	7.91187e-08	1.00000	7.91187e-08	1.00000
rad2	5.47366e-08	1.00000	5.47366e-08	1.00000
rad28	1.70085e-08	1.00000	1.70085e-08	1.00000
rad30	1.28691e-08	1.00000	1.28691e-08	1.00000
rad1	3.48926e-09	1.00000	3.48926e-09	1.00000
Phenyl+Allene	3.36400e-09	1.00000	0.00000	1.00000
rad15	2.26048e-09	1.00000	2.26048e-09	1.00000
rad33	1.24674e-09	1.00000	1.24674e-09	1.00000
rad10	4.88720e-10	1.00000	4.88720e-10	1.00000
PhCCH+CH3	3.54617e-10	1.00000	3.54617e-10	1.00000
PAH9+H	4.44036e-11	1.00000	4.44036e-11	1.00000
rad38	3.99131e-11	1.00000	3.99131e-11	1.00000
rad35	2.46278e-11	1.00000	2.46278e-11	1.00000
rad14	1.54128e-11	1.00000	1.54128e-11	1.00000
rad8	8.61219e-12	1.00000	8.61219e-12	1.00000
rad24	5.80997e-12	1.00000	5.80997e-12	1.00000
PhCCCH3+H	2.55751e-13	1.00000	2.55751e-13	1.00000
rad46	2.31882e-13	1.00000	2.31882e-13	1.00000
rad60syn	9.63545e-14	1.00000	9.63545e-14	1.00000
rad27	7.36714e-14	1.00000	7.36714e-14	1.00000
rad26	6.24615e-14	1.00000	6.24615e-14	1.00000
Ph+MeAc	2.70269e-14	1.00000	2.70269e-14	1.00000
PhCH2CCH+H	1.00969e-14	1.00000	1.00969e-14	1.00000
rad60anti	8.85372e-15	1.00000	8.85372e-15	1.00000
PAH7+H	4.14393e-16	1.00000	4.14393e-16	1.00000
rad31	1.26439e-16	1.00000	1.26439e-16	1.00000
rad39	4.42101e-17	1.00000	4.42101e-17	1.00000
rad12	1.64168e-21	1.00000	1.64168e-21	1.00000
PAH3+H	1.40827e-22	1.00000	1.40827e-22	1.00000
rad59	7.24986e-23	1.00000	7.24986e-23	1.00000
rad5	2.72532e-23	1.00000	2.72532e-23	1.00000
rad50	6.96838e-24	1.00000	6.96838e-24	1.00000
rad37	2.09519e-24	1.00000	2.09519e-24	1.00000
rad19syn	1.29756e-29	1.00000	1.29756e-29	1.00000
rad52	1.97232e-32	1.00000	1.97232e-32	1.00000
rad54	5.12033e-33	1.00000	5.12033e-33	1.00000
rad43	1.27576e-34	1.00000	1.27576e-34	1.00000
rad62	1.33869e-35	1.00000	1.33869e-35	1.00000
PAH10+CH3	8.34750e-36	1.00000	8.34750e-36	1.00000
rad51	2.57900e-37	1.00000	2.57900e-37	1.00000
rad70	2.97366e-39	1.00000	2.97366e-39	1.00000
PhcycC3H3_A+H	2.10020e-39	1.00000	2.10020e-39	1.00000
rad55	9.95990e-40	1.00000	9.95990e-40	1.00000
rad65	3.92738e-41	1.00000	3.92738e-41	1.00000
rad58	1.01917e-42	1.00000	1.01917e-42	1.00000
PAH1+H	5.31428e-44	1.00000	5.31428e-44	1.00000
rad34	1.24394e-44	1.00000	1.24394e-44	1.00000
rad47	2.16623e-46	1.00000	2.16623e-46	1.00000
rad42	1.48396e-47	1.00000	1.48396e-47	1.00000
rad41	4.03059e-48	1.00000	4.03059e-48	1.00000

100.000000 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.68112e-23 (1.00)	2.68112e-23 (1.00)
Formation of rad11	2.65890e-23 (0.992)	2.65890e-23 (0.992)
Formation of rad6	2.22189e-25 (0.00829)	2.22189e-25 (0.00829)
H-abstraction	1.05871e-28 (3.95e-06)	1.05871e-28 (3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.732847	0.732847	0.732847	0.732847
rad11	0.226003	0.958850	0.226003	0.958850
Indene+H	0.0287608	0.987611	0.0287608	0.987611
rad23	0.00614771	0.993759	0.00614771	0.993759
rad22	0.00503493	0.998794	0.00503493	0.998794
rad45	0.000625430	0.999419	0.000625430	0.999419
C2H2+PhCH2	0.000291690	0.999711	0.000291690	0.999711
rad7	0.000234154	0.999945	0.000234154	0.999945
rad36	3.88059e-05	0.999984	3.88059e-05	0.999984
rad18	4.73637e-06	0.999988	4.73637e-06	0.999988
Benzene+2-propynyl	3.94877e-06	0.999992	3.94877e-06	0.999992
rad25	2.64192e-06	0.999995	2.64192e-06	0.999995
PhCHCCH2+H	1.66310e-06	0.999997	1.66310e-06	0.999997
rad13	1.10356e-06	0.999998	1.10356e-06	0.999998
rad20	5.67665e-07	0.999998	5.67665e-07	0.999998
rad3	4.81024e-07	0.999999	4.81024e-07	0.999999
rad21	3.52833e-07	0.999999	3.52833e-07	0.999999

rad4	2.43896e-07	0.999999	2.43896e-07	0.999999
rad9	9.61247e-08	1.000000	9.61247e-08	1.000000
rad2	8.77980e-08	1.000000	8.77980e-08	1.000000
rad28	2.35221e-08	1.000000	2.35221e-08	1.000000
rad30	1.48277e-08	1.000000	1.48277e-08	1.000000
rad1	5.61217e-09	1.000000	5.61217e-09	1.000000
Phenyl+Allene	5.44909e-09	1.000000	0.000000	1.000000
rad15	2.63778e-09	1.000000	2.63778e-09	1.000000
rad33	1.27278e-09	1.000000	1.27278e-09	1.000000
rad10	9.48631e-10	1.000000	9.48631e-10	1.000000
PhCCH+CH3	6.32321e-10	1.000000	6.32321e-10	1.000000
PAH9+H	6.50427e-11	1.000000	6.50427e-11	1.000000
rad38	5.16301e-11	1.000000	5.16301e-11	1.000000
rad35	3.57982e-11	1.000000	3.57982e-11	1.000000
rad14	2.34655e-11	1.000000	2.34655e-11	1.000000
rad8	1.22513e-11	1.000000	1.22513e-11	1.000000
rad24	5.66804e-12	1.000000	5.66804e-12	1.000000
PhCCCH3+H	5.81773e-13	1.000000	5.81773e-13	1.000000
rad46	3.14126e-13	1.000000	3.14126e-13	1.000000
rad26	1.61857e-13	1.000000	1.61857e-13	1.000000
rad60syn	1.35449e-13	1.000000	1.35449e-13	1.000000
rad27	1.19846e-13	1.000000	1.19846e-13	1.000000
Ph+MeAc	6.88923e-14	1.000000	6.88923e-14	1.000000
PhCH2CCH+H	4.19447e-14	1.000000	4.19447e-14	1.000000
rad60anti	1.59931e-14	1.000000	1.59931e-14	1.000000
PAH7+H	9.27665e-16	1.000000	9.27665e-16	1.000000
rad31	1.68991e-16	1.000000	1.68991e-16	1.000000
rad39	9.97720e-17	1.000000	9.97720e-17	1.000000
rad12	7.09362e-21	1.000000	7.09362e-21	1.000000
PAH3+H	7.08718e-22	1.000000	7.08718e-22	1.000000
rad59	3.63826e-22	1.000000	3.63826e-22	1.000000
rad5	1.72330e-22	1.000000	1.72330e-22	1.000000
rad50	2.88162e-23	1.000000	2.88162e-23	1.000000
rad37	1.52133e-23	1.000000	1.52133e-23	1.000000
rad19syn	9.49745e-29	1.000000	9.49745e-29	1.000000
rad52	1.06111e-31	1.000000	1.06111e-31	1.000000
rad54	3.95346e-32	1.000000	3.95346e-32	1.000000
rad43	1.43730e-33	1.000000	1.43730e-33	1.000000
rad62	1.18572e-34	1.000000	1.18572e-34	1.000000
PAH10+CH3	1.09948e-34	1.000000	1.09948e-34	1.000000
rad51	1.59962e-36	1.000000	1.59962e-36	1.000000
rad70	2.57320e-38	1.000000	2.57320e-38	1.000000
PhcycC3H3_A+H	1.83235e-38	1.000000	1.83235e-38	1.000000
rad55	8.64724e-39	1.000000	8.64724e-39	1.000000
rad65	2.58150e-40	1.000000	2.58150e-40	1.000000
rad58	8.93772e-42	1.000000	8.93772e-42	1.000000
PAH1+H	5.65286e-43	1.000000	5.65286e-43	1.000000
rad34	1.18092e-43	1.000000	1.18092e-43	1.000000
rad47	1.42544e-45	1.000000	1.42544e-45	1.000000
rad42	1.87901e-46	1.000000	1.87901e-46	1.000000
rad41	6.83014e-47	1.000000	6.83014e-47	1.000000

100.000000 Pa, 90.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.08379e-22 (1.00)	3.08379e-22 (1.00)
Formation of rad11	3.03962e-22 (0.986)	3.03962e-22 (0.986)
Formation of rad6	4.41076e-24 (0.0143)	4.41076e-24 (0.0143)
H-abstraction	5.92916e-27 (1.92e-05)	5.92916e-27 (1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.770908	0.770908	0.770908	0.770908
rad11	0.185497	0.956406	0.185497	0.956406
Indene+H	0.0313733	0.987779	0.0313733	0.987779
rad23	0.00665290	0.994432	0.00665290	0.994432
rad22	0.00430137	0.998733	0.00430137	0.998733
rad45	0.000621877	0.999355	0.000621877	0.999355
C2H2+PhCH2	0.000323534	0.999679	0.000323534	0.999679
rad7	0.000253567	0.999932	0.000253567	0.999932
rad36	3.85641e-05	0.999971	3.85641e-05	0.999971
Benzene+2-propynyl	1.92269e-05	0.999990	1.92269e-05	0.999990
rad18	3.32402e-06	0.999993	3.32402e-06	0.999993
rad25	2.29423e-06	0.999996	2.29423e-06	0.999996
PhCHCCH2+H	1.94988e-06	0.999998	1.94988e-06	0.999998
rad13	1.11921e-06	0.999999	1.11921e-06	0.999999
rad3	6.05035e-07	0.999999	6.05035e-07	0.999999
rad20	3.88286e-07	1.000000	3.88286e-07	1.000000
rad4	3.07016e-07	1.000000	3.07016e-07	1.000000

rad21	2.41033e-07	1.00000	2.41033e-07	1.00000
rad2	1.34669e-07	1.00000	1.34669e-07	1.00000
rad9	1.15254e-07	1.00000	1.15254e-07	1.00000
rad28	3.16899e-08	1.00000	3.16899e-08	1.00000
rad30	1.67946e-08	1.00000	1.67946e-08	1.00000
rad1	8.63445e-09	1.00000	8.63445e-09	1.00000
Phenyl+Allene	8.56286e-09	1.00000	0.00000	1.00000
rad15	3.02676e-09	1.00000	3.02676e-09	1.00000
rad10	1.73742e-09	1.00000	1.73742e-09	1.00000
rad33	1.29042e-09	1.00000	1.29042e-09	1.00000
PhCCH+CH3	1.09006e-09	1.00000	1.09006e-09	1.00000
PAH9+H	9.10666e-11	1.00000	9.10666e-11	1.00000
rad38	6.51248e-11	1.00000	6.51248e-11	1.00000
rad35	4.97136e-11	1.00000	4.97136e-11	1.00000
rad14	3.39325e-11	1.00000	3.39325e-11	1.00000
rad8	1.71394e-11	1.00000	1.71394e-11	1.00000
rad24	5.57257e-12	1.00000	5.57257e-12	1.00000
PhCCCH3+H	1.27203e-12	1.00000	1.27203e-12	1.00000
rad46	4.15866e-13	1.00000	4.15866e-13	1.00000
rad26	3.95550e-13	1.00000	3.95550e-13	1.00000
PhCH2CCH+H	2.01480e-13	1.00000	2.01480e-13	1.00000
rad60syn	1.87325e-13	1.00000	1.87325e-13	1.00000
rad27	1.85693e-13	1.00000	1.85693e-13	1.00000
Ph+MeAc	1.69588e-13	1.00000	1.69588e-13	1.00000
rad60anti	2.69828e-14	1.00000	2.69828e-14	1.00000
PAH7+H	2.24222e-15	1.00000	2.24222e-15	1.00000
rad39	2.21783e-16	1.00000	2.21783e-16	1.00000
rad31	2.19336e-16	1.00000	2.19336e-16	1.00000
rad12	2.92367e-20	1.00000	2.92367e-20	1.00000
PAH3+H	6.54736e-21	1.00000	6.54736e-21	1.00000
rad59	3.29427e-21	1.00000	3.29427e-21	1.00000
rad5	1.11722e-21	1.00000	1.11722e-21	1.00000
rad50	1.55187e-22	1.00000	1.55187e-22	1.00000
rad37	1.06665e-22	1.00000	1.06665e-22	1.00000
rad19syn	1.18755e-27	1.00000	1.18755e-27	1.00000
rad52	9.40998e-31	1.00000	9.40998e-31	1.00000
rad54	5.30922e-31	1.00000	5.30922e-31	1.00000
rad43	2.37742e-32	1.00000	2.37742e-32	1.00000
PAH10+CH3	2.02173e-33	1.00000	2.02173e-33	1.00000
rad62	1.78830e-33	1.00000	1.78830e-33	1.00000
rad51	1.68310e-35	1.00000	1.68310e-35	1.00000
rad70	3.88832e-37	1.00000	3.88832e-37	1.00000
PhcycC3H3_A+H	2.79144e-37	1.00000	2.79144e-37	1.00000
rad55	1.31073e-37	1.00000	1.31073e-37	1.00000
rad65	2.93316e-39	1.00000	2.93316e-39	1.00000
rad58	1.36971e-40	1.00000	1.36971e-40	1.00000
PAH1+H	1.03137e-41	1.00000	1.03137e-41	1.00000
rad34	1.96502e-42	1.00000	1.96502e-42	1.00000
rad47	1.69154e-44	1.00000	1.69154e-44	1.00000
rad42	4.43013e-45	1.00000	4.43013e-45	1.00000
rad41	2.01548e-45	1.00000	2.01548e-45	1.00000

100.000000 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14498e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.802217	0.802217	0.802217	0.802217
rad11	0.152143	0.954360	0.152143	0.954360
Indene+H	0.0335862	0.987946	0.0335862	0.987946
rad23	0.00705958	0.995006	0.00705958	0.995006
rad22	0.00363576	0.998642	0.00363576	0.998642
rad45	0.000618981	0.999261	0.000618981	0.999261
C2H2+PhCH2	0.000354642	0.999615	0.000354642	0.999615
rad7	0.000269346	0.999885	0.000269346	0.999885
Benzene+2-propynyl	6.70630e-05	0.999952	6.70630e-05	0.999952
rad36	3.83690e-05	0.999990	3.83690e-05	0.999990
rad18	2.37227e-06	0.999992	2.37227e-06	0.999992
PhCHCCH2+H	2.26469e-06	0.999995	2.26469e-06	0.999995
rad25	1.97486e-06	0.999997	1.97486e-06	0.999997
rad13	1.12876e-06	0.999998	1.12876e-06	0.999998
rad3	7.42296e-07	0.999998	7.42296e-07	0.999998
rad4	3.76996e-07	0.999999	3.76996e-07	0.999999
rad20	2.71474e-07	0.999999	2.71474e-07	0.999999

rad2	1.99846e-07	0.999999	1.99846e-07	0.999999
rad21	1.68363e-07	0.999999	1.68363e-07	0.999999
rad9	1.36943e-07	1.000000	1.36943e-07	1.000000
rad28	4.19271e-08	1.000000	4.19271e-08	1.000000
rad30	1.87939e-08	1.000000	1.87939e-08	1.000000
Phenyl+Allene	1.31181e-08	1.000000	0.000000	1.000000
rad1	1.28561e-08	1.000000	1.28561e-08	1.000000
rad15	3.43278e-09	1.000000	3.43278e-09	1.000000
rad10	3.04583e-09	1.000000	3.04583e-09	1.000000
PhCCH+CH3	1.83296e-09	1.000000	1.83296e-09	1.000000
rad33	1.30183e-09	1.000000	1.30183e-09	1.000000
PAH9+H	1.23507e-10	1.000000	1.23507e-10	1.000000
rad38	8.07712e-11	1.000000	8.07712e-11	1.000000
rad35	6.68398e-11	1.000000	6.68398e-11	1.000000
rad14	4.70957e-11	1.000000	4.70958e-11	1.000000
rad8	2.36959e-11	1.000000	2.36959e-11	1.000000
rad24	5.50174e-12	1.000000	5.50174e-12	1.000000
PhCCCH3+H	2.70025e-12	1.000000	2.70025e-12	1.000000
rad26	9.24519e-13	1.000000	9.24519e-13	1.000000
PhCH2CCH+H	8.83776e-13	1.000000	8.83776e-13	1.000000
rad46	5.42749e-13	1.000000	5.42749e-13	1.000000
Ph+MeAc	4.02191e-13	1.000000	4.02191e-13	1.000000
rad27	2.77545e-13	1.000000	2.77545e-13	1.000000
rad60syn	2.56238e-13	1.000000	2.56238e-13	1.000000
rad60anti	4.31985e-14	1.000000	4.31985e-14	1.000000
PAH7+H	6.04846e-15	1.000000	6.04846e-15	1.000000
rad39	4.85993e-16	1.000000	4.85993e-16	1.000000
rad31	2.78600e-16	1.000000	2.78600e-16	1.000000
rad12	1.15332e-19	1.000000	1.15332e-19	1.000000
PAH3+H	6.35207e-20	1.000000	6.35207e-20	1.000000
rad59	3.08498e-20	1.000000	3.08498e-20	1.000000
rad5	6.83624e-21	1.000000	6.83624e-21	1.000000
rad50	9.28696e-22	1.000000	9.28696e-22	1.000000
rad37	6.90603e-22	1.000000	6.90603e-22	1.000000
rad19syn	2.62821e-26	1.000000	2.62821e-26	1.000000
rad52	1.57702e-29	1.000000	1.57702e-29	1.000000
rad54	1.52227e-29	1.000000	1.52227e-29	1.000000
rad43	5.70572e-31	1.000000	5.70572e-31	1.000000
rad62	5.33897e-32	1.000000	5.33897e-32	1.000000
PAH10+CH3	5.15661e-32	1.000000	5.15661e-32	1.000000
rad51	3.70021e-34	1.000000	3.70021e-34	1.000000
rad70	1.32194e-35	1.000000	1.32194e-35	1.000000
PhcycC3H3_A+H	9.54138e-36	1.000000	9.54138e-36	1.000000
rad55	4.45725e-36	1.000000	4.45725e-36	1.000000
rad65	7.12728e-38	1.000000	7.12728e-38	1.000000
rad58	4.71907e-39	1.000000	4.71907e-39	1.000000
PAH1+H	4.09764e-40	1.000000	4.09764e-40	1.000000
rad34	7.35680e-41	1.000000	7.35680e-41	1.000000
rad47	4.48071e-43	1.000000	4.48071e-43	1.000000
rad42	2.10548e-43	1.000000	2.10548e-43	1.000000
rad41	1.06589e-43	1.000000	1.06589e-43	1.000000

100.000000 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06527e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44008e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.827980	0.827980	0.827980	0.827980
rad11	0.124633	0.952613	0.124633	0.952613
Indene+H	0.0354460	0.988059	0.0354460	0.988059
rad23	0.00737995	0.995439	0.00737995	0.995439
rad22	0.00304678	0.998486	0.00304678	0.998486
rad45	0.000615769	0.999101	0.000615769	0.999101
C2H2+PhCH2	0.000385392	0.999487	0.000385392	0.999487
rad7	0.000282004	0.999769	0.000282004	0.999769
Benzene+2-propynyl	0.000183695	0.999953	0.000183695	0.999953
rad36	3.81609e-05	0.999991	3.81609e-05	0.999991
PhCHCCH2+H	2.61353e-06	0.999993	2.61353e-06	0.999993
rad18	1.71482e-06	0.999995	1.71482e-06	0.999995
rad25	1.68767e-06	0.999997	1.68767e-06	0.999997
rad13	1.13368e-06	0.999998	1.13368e-06	0.999998
rad3	8.92597e-07	0.999999	8.92597e-07	0.999999
rad4	4.53766e-07	0.999999	4.53766e-07	0.999999
rad2	2.88955e-07	1.000000	2.88955e-07	1.000000

rad20	1.93049e-07	1.000000	1.93049e-07	1.000000
rad9	1.61713e-07	1.000000	1.61713e-07	1.000000
rad21	1.19641e-07	1.000000	1.19641e-07	1.000000
rad28	5.47468e-08	1.000000	5.47468e-08	1.000000
rad30	2.08513e-08	1.000000	2.08513e-08	1.000000
Phenyl+Allene	1.96645e-08	1.000000	0.000000	1.000000
rad1	1.86565e-08	1.000000	1.86565e-08	1.000000
rad10	5.15340e-09	1.000000	5.15340e-09	1.000000
rad15	3.86170e-09	1.000000	3.86170e-09	1.000000
PhCCH+CH3	3.02016e-09	1.000000	3.02016e-09	1.000000
rad33	1.30853e-09	1.000000	1.30853e-09	1.000000
PAH9+H	1.63733e-10	1.000000	1.63733e-10	1.000000
rad38	9.90653e-11	1.000000	9.90653e-11	1.000000
rad35	8.77935e-11	1.000000	8.77935e-11	1.000000
rad14	6.31503e-11	1.000000	6.31503e-11	1.000000
rad8	3.24859e-11	1.000000	3.24859e-11	1.000000
PhCCCH3+H	5.59306e-12	1.000000	5.59306e-12	1.000000
rad24	5.44200e-12	1.000000	5.44200e-12	1.000000
PhCH2CCH+H	3.29257e-12	1.000000	3.29257e-12	1.000000
rad26	2.08210e-12	1.000000	2.08210e-12	1.000000
Ph+MeAc	9.19697e-13	1.000000	9.19697e-13	1.000000
rad46	7.02505e-13	1.000000	7.02505e-13	1.000000
rad27	4.03246e-13	1.000000	4.03246e-13	1.000000
rad60syn	3.47857e-13	1.000000	3.47857e-13	1.000000
rad60anti	6.65068e-14	1.000000	6.65068e-14	1.000000
PAH7+H	1.74264e-14	1.000000	1.74264e-14	1.000000
rad39	1.05031e-15	1.000000	1.05031e-15	1.000000
rad31	3.48021e-16	1.000000	3.48021e-16	1.000000
PAH3+H	4.82681e-19	1.000000	4.82681e-19	1.000000
rad12	4.37093e-19	1.000000	4.37093e-19	1.000000
rad59	2.24962e-19	1.000000	2.24962e-19	1.000000
rad5	3.77840e-20	1.000000	3.77840e-20	1.000000
rad50	5.17809e-21	1.000000	5.17809e-21	1.000000
rad37	4.05867e-21	1.000000	4.05867e-21	1.000000
rad19syn	6.75272e-25	1.000000	6.75272e-25	1.000000
rad54	6.48994e-28	1.000000	6.48994e-28	1.000000
rad52	3.58173e-28	1.000000	3.58173e-28	1.000000
rad43	1.68848e-29	1.000000	1.68848e-29	1.000000
rad62	2.57845e-30	1.000000	2.57845e-30	1.000000
PAH10+CH3	1.59734e-30	1.000000	1.59734e-30	1.000000
rad51	1.68730e-32	1.000000	1.68730e-32	1.000000
rad70	1.02324e-33	1.000000	1.02324e-33	1.000000
PhcycC3H3_A+H	7.35203e-34	1.000000	7.35203e-34	1.000000
rad55	3.41723e-34	1.000000	3.41723e-34	1.000000
rad65	3.62275e-36	1.000000	3.62275e-36	1.000000
rad58	3.68711e-37	1.000000	3.68711e-37	1.000000
PAH1+H	3.49855e-38	1.000000	3.49855e-38	1.000000
rad34	6.22332e-39	1.000000	6.22332e-39	1.000000
rad47	2.59918e-41	1.000000	2.59918e-41	1.000000
rad42	1.80640e-41	1.000000	1.80640e-41	1.000000
rad41	9.16986e-42	1.000000	9.16986e-42	1.000000

100.000000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.849114	0.849114	0.849114	0.849114
rad11	0.101939	0.951053	0.101939	0.951053
Indene+H	0.0369993	0.988053	0.0369993	0.988053
rad23	0.00762519	0.995678	0.00762519	0.995678
rad22	0.00253493	0.998213	0.00253493	0.998213
rad45	0.000611673	0.998824	0.000611673	0.998824
Benzene+2-propynyl	0.000420064	0.999244	0.000420064	0.999244
C2H2+PhCH2	0.000416154	0.999661	0.000416154	0.999661
rad7	0.000291994	0.999953	0.000291994	0.999953
rad36	3.79052e-05	0.999990	3.79052e-05	0.999990
PhCHCCH2+H	3.00331e-06	0.999993	3.00331e-06	0.999993
rad25	1.43334e-06	0.999995	1.43334e-06	0.999995
rad18	1.25201e-06	0.999996	1.25201e-06	0.999996
rad13	1.13500e-06	0.999997	1.13500e-06	0.999997
rad3	1.05530e-06	0.999998	1.05530e-06	0.999998
rad4	5.37043e-07	0.999999	5.37043e-07	0.999999
rad2	4.08919e-07	0.999999	4.08919e-07	0.999999

rad9	1.90176e-07	1.000000	1.90176e-07	1.000000
rad20	1.39134e-07	1.000000	1.39134e-07	1.000000
rad21	8.61834e-08	1.000000	8.61834e-08	1.000000
rad28	7.07834e-08	1.000000	7.07834e-08	1.000000
Phenyl+Allene	2.89256e-08	1.000000	0.000000	1.000000
rad1	2.65072e-08	1.000000	2.65072e-08	1.000000
rad30	2.29934e-08	1.000000	2.29934e-08	1.000000
rad10	8.45827e-09	1.000000	8.45827e-09	1.000000
PhCCH+CH3	4.88902e-09	1.000000	4.88902e-09	1.000000
rad15	4.32000e-09	1.000000	4.32000e-09	1.000000
rad33	1.31157e-09	1.000000	1.31157e-09	1.000000
PAH9+H	2.13541e-10	1.000000	2.13541e-10	1.000000
rad38	1.20649e-10	1.000000	1.20649e-10	1.000000
rad35	1.13377e-10	1.000000	1.13377e-10	1.000000
rad14	8.21780e-11	1.000000	8.21780e-11	1.000000
rad8	4.42675e-11	1.000000	4.42675e-11	1.000000
PhCCCH3+H	1.13411e-11	1.000000	1.13411e-11	1.000000
PhCH2CCH+H	1.04692e-11	1.000000	1.04692e-11	1.000000
rad24	5.38526e-12	1.000000	5.38526e-12	1.000000
rad26	4.53959e-12	1.000000	4.53959e-12	1.000000
Ph+MeAc	2.03439e-12	1.000000	2.03439e-12	1.000000
rad46	9.05645e-13	1.000000	9.05645e-13	1.000000
rad27	5.72339e-13	1.000000	5.72339e-13	1.000000
rad60syn	4.69602e-13	1.000000	4.69602e-13	1.000000
rad60anti	9.94387e-14	1.000000	9.94387e-14	1.000000
PAH7+H	4.95503e-14	1.000000	4.95503e-14	1.000000
rad39	2.24260e-15	1.000000	2.24260e-15	1.000000
rad31	4.28939e-16	1.000000	4.28939e-16	1.000000
PAH3+H	2.79681e-18	1.000000	2.79681e-18	1.000000
rad12	1.59815e-18	1.000000	1.59815e-18	1.000000
rad59	1.24883e-18	1.000000	1.24883e-18	1.000000
rad5	1.86282e-19	1.000000	1.86282e-19	1.000000
rad50	2.49579e-20	1.000000	2.49579e-20	1.000000
rad37	2.16621e-20	1.000000	2.16621e-20	1.000000
rad19syn	1.37439e-23	1.000000	1.37439e-23	1.000000
rad54	2.26168e-26	1.000000	2.26168e-26	1.000000
rad52	6.99033e-27	1.000000	6.99033e-27	1.000000
rad43	4.69388e-28	1.000000	4.69388e-28	1.000000
rad62	1.14693e-28	1.000000	1.14693e-28	1.000000
PAH10+CH3	4.77988e-29	1.000000	4.77988e-29	1.000000
rad51	9.71664e-31	1.000000	9.71664e-31	1.000000
rad70	1.32465e-31	1.000000	1.32465e-31	1.000000
PhcycC3H3_A+H	9.50482e-32	1.000000	9.50482e-32	1.000000
rad55	4.47159e-32	1.000000	4.47159e-32	1.000000
rad65	2.84623e-34	1.000000	2.84623e-34	1.000000
rad58	5.05239e-35	1.000000	5.05239e-35	1.000000
PAH1+H	4.56418e-36	1.000000	4.56418e-36	1.000000
rad34	8.57539e-37	1.000000	8.57539e-37	1.000000
rad47	2.45167e-39	1.000000	2.45167e-39	1.000000
rad42	2.18616e-39	1.000000	2.18616e-39	1.000000
rad41	1.03123e-39	1.000000	1.03123e-39	1.000000

100.000000 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.33719e-19 (1.00)	1.33719e-19 (1.00)
Formation of rad11	1.26517e-19 (0.946)	1.26517e-19 (0.946)
Formation of rad6	7.08974e-21 (0.0530)	7.08974e-21 (0.0530)
H-abstraction	1.11864e-22 (0.000837)	1.11864e-22 (0.000837)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.866340	0.866340	0.866340	0.866340
rad11	0.0832316	0.949571	0.0832316	0.949571
Indene+H	0.0382899	0.987861	0.0382899	0.987861
rad23	0.00780510	0.995666	0.00780510	0.995666
rad22	0.00209620	0.997763	0.00209620	0.997763
Benzene+2-propynyl	0.000836559	0.998599	0.000836559	0.998599
rad45	0.000606404	0.999205	0.000606404	0.999205
C2H2+PhCH2	0.000447289	0.999653	0.000447289	0.999653
rad7	0.000299711	0.999952	0.000299711	0.999952
rad36	3.75841e-05	0.999990	3.75841e-05	0.999990
PhCHCCH2+H	3.44185e-06	0.999993	3.44185e-06	0.999993
rad3	1.22929e-06	0.999995	1.22929e-06	0.999995
rad25	1.21077e-06	0.999996	1.21077e-06	0.999996
rad13	1.13347e-06	0.999997	1.13347e-06	0.999997
rad18	9.21391e-07	0.999998	9.21391e-07	0.999998
rad4	6.26320e-07	0.999999	6.26320e-07	0.999999
rad2	5.68145e-07	0.999999	5.68145e-07	0.999999

rad9	2.23039e-07	0.999999	2.23039e-07	0.999999
rad20	1.01371e-07	1.000000	1.01371e-07	1.000000
rad28	9.08256e-08	1.000000	9.08256e-08	1.000000
rad21	6.27691e-08	1.000000	6.27691e-08	1.000000
Phenyl+Allene	4.18477e-08	1.000000	0.000000	1.000000
rad1	3.69883e-08	1.000000	3.69883e-08	1.000000
rad30	2.52486e-08	1.000000	2.52486e-08	1.000000
rad10	1.35131e-08	1.000000	1.35131e-08	1.000000
PhCCH+CH3	7.79008e-09	1.000000	7.79008e-09	1.000000
rad15	4.81475e-09	1.000000	4.81475e-09	1.000000
rad33	1.31172e-09	1.000000	1.31172e-09	1.000000
PAH9+H	2.75265e-10	1.000000	2.75265e-10	1.000000
rad38	1.46346e-10	1.000000	1.46346e-10	1.000000
rad35	1.44623e-10	1.000000	1.44623e-10	1.000000
rad14	1.04135e-10	1.000000	1.04135e-10	1.000000
rad8	6.00557e-11	1.000000	6.00557e-11	1.000000
PhCH2CCH+H	2.90769e-11	1.000000	2.90769e-11	1.000000
PhCCCH3+H	2.25731e-11	1.000000	2.25731e-11	1.000000
rad26	9.61602e-12	1.000000	9.61602e-12	1.000000
rad24	5.32690e-12	1.000000	5.32690e-12	1.000000
Ph+MeAc	4.37110e-12	1.000000	4.37110e-12	1.000000
rad46	1.16643e-12	1.000000	1.16643e-12	1.000000
rad27	7.96311e-13	1.000000	7.96311e-13	1.000000
rad60syn	6.31095e-13	1.000000	6.31095e-13	1.000000
rad60anti	1.45400e-13	1.000000	1.45400e-13	1.000000
PAH7+H	1.32147e-13	1.000000	1.32147e-13	1.000000
rad39	4.74336e-15	1.000000	4.74336e-15	1.000000
rad31	5.22828e-16	1.000000	5.22828e-16	1.000000
PAH3+H	1.28229e-17	1.000000	1.28229e-17	1.000000
rad12	5.65471e-18	1.000000	5.65471e-18	1.000000
rad59	5.48617e-18	1.000000	5.48617e-18	1.000000
rad5	8.22580e-19	1.000000	8.22580e-19	1.000000
rad37	1.05842e-19	1.000000	1.05842e-19	1.000000
rad50	1.03194e-19	1.000000	1.03194e-19	1.000000
rad19syn	2.01368e-22	1.000000	2.01368e-22	1.000000
rad54	5.35333e-25	1.000000	5.35333e-25	1.000000
rad52	1.00573e-25	1.000000	1.00573e-25	1.000000
rad43	1.02982e-26	1.000000	1.02982e-26	1.000000
rad62	3.53803e-27	1.000000	3.53803e-27	1.000000
PAH10+CH3	1.17420e-27	1.000000	1.17420e-27	1.000000
rad70	4.15189e-29	1.000000	4.15189e-29	1.000000
rad51	3.42210e-29	1.000000	3.42210e-29	1.000000
PhcycC3H3_A+H	7.61673e-30	1.000000	7.61673e-30	1.000000
rad55	3.27482e-30	1.000000	3.27482e-30	1.000000
rad65	2.26562e-32	1.000000	2.26562e-32	1.000000
rad58	1.28005e-32	1.000000	1.28005e-32	1.000000
PAH1+H	5.83257e-34	1.000000	5.83257e-34	1.000000
rad34	1.25005e-34	1.000000	1.25005e-34	1.000000
rad42	2.72459e-37	1.000000	2.72459e-37	1.000000
rad47	2.66189e-37	1.000000	2.66189e-37	1.000000
rad41	1.13631e-37	1.000000	1.13631e-37	1.000000

100.000000 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.59582e-19 (1.00)	3.59582e-19 (1.00)
Formation of rad11	3.35703e-19 (0.934)	3.35703e-19 (0.934)
Formation of rad6	2.33415e-20 (0.0649)	2.33415e-20 (0.0649)
H-abstraction	5.37685e-22 (0.00150)	5.37685e-22 (0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.880230	0.880230	0.880230	0.880230
rad11	0.0678317	0.948062	0.0678317	0.948062
Indene+H	0.0393589	0.987420	0.0393589	0.987420
rad23	0.00792822	0.995349	0.00792822	0.995349
rad22	0.00172426	0.997073	0.00172426	0.997073
Benzene+2-propynyl	0.00149531	0.998568	0.00149531	0.998568
rad45	0.000599849	0.999168	0.000599849	0.999168
C2H2+PhCH2	0.000479148	0.999647	0.000479148	0.999647
rad7	0.000305494	0.999953	0.000305494	0.999953
rad36	3.71913e-05	0.999990	3.71913e-05	0.999990
PhCHCCH2+H	3.93813e-06	0.999994	3.93814e-06	0.999994
rad3	1.41308e-06	0.999995	1.41308e-06	0.999995
rad13	1.12967e-06	0.999996	1.12967e-06	0.999996
rad25	1.01787e-06	0.999997	1.01787e-06	0.999997
rad2	7.76760e-07	0.999998	7.76760e-07	0.999998
rad4	7.20877e-07	0.999999	7.20877e-07	0.999999
rad18	6.82431e-07	1.000000	6.82431e-07	1.000000

rad9	2.61125e-07	1.000000	2.61125e-07	1.000000
rad28	1.15864e-07	1.000000	1.15864e-07	1.000000
rad20	7.45200e-08	1.000000	7.45200e-08	1.000000
Phenyl+Allene	5.96596e-08	1.000000	0.000000	1.000000
rad1	5.08087e-08	1.000000	5.08087e-08	1.000000
rad21	4.61318e-08	1.000000	4.61318e-08	1.000000
rad30	2.76462e-08	1.000000	2.76462e-08	1.000000
rad10	2.10668e-08	1.000000	2.10668e-08	1.000000
PhCCH+CH3	1.22365e-08	1.000000	1.22365e-08	1.000000
rad15	5.35367e-09	1.000000	5.35367e-09	1.000000
rad33	1.30959e-09	1.000000	1.30959e-09	1.000000
PAH9+H	3.51915e-10	1.000000	3.51915e-10	1.000000
rad35	1.82846e-10	1.000000	1.82846e-10	1.000000
rad38	1.77203e-10	1.000000	1.77203e-10	1.000000
rad14	1.28851e-10	1.000000	1.28851e-10	1.000000
rad8	8.12091e-11	1.000000	8.12091e-11	1.000000
PhCH2CCH+H	7.22228e-11	1.000000	7.22228e-11	1.000000
PhCCCH3+H	4.42040e-11	1.000000	4.42040e-11	1.000000
rad26	1.98443e-11	1.000000	1.98443e-11	1.000000
Ph+MeAc	9.15983e-12	1.000000	9.15983e-12	1.000000
rad24	5.26444e-12	1.000000	5.26444e-12	1.000000
rad46	1.50422e-12	1.000000	1.50422e-12	1.000000
rad27	1.08887e-12	1.000000	1.08887e-12	1.000000
rad60syn	8.44778e-13	1.000000	8.44778e-13	1.000000
PAH7+H	3.25215e-13	1.000000	3.25215e-13	1.000000
rad60anti	2.08939e-13	1.000000	2.08939e-13	1.000000
rad39	9.96569e-15	1.000000	9.96569e-15	1.000000
rad31	6.31345e-16	1.000000	6.31345e-16	1.000000
PAH3+H	4.85236e-17	1.000000	4.85236e-17	1.000000
rad59	1.99131e-17	1.000000	1.99131e-17	1.000000
rad12	1.93896e-17	1.000000	1.93896e-17	1.000000
rad5	3.28757e-18	1.000000	3.28757e-18	1.000000
rad37	4.78033e-19	1.000000	4.78033e-19	1.000000
rad50	3.71908e-19	1.000000	3.71908e-19	1.000000
rad19syn	2.16418e-21	1.000000	2.16418e-21	1.000000
rad54	8.72090e-24	1.000000	8.72090e-24	1.000000
rad52	1.06607e-24	1.000000	1.06607e-24	1.000000
rad43	1.70180e-25	1.000000	1.70180e-25	1.000000
rad62	7.42921e-26	1.000000	7.42921e-26	1.000000
PAH10+CH3	2.24262e-26	1.000000	2.24262e-26	1.000000
rad70	2.57311e-27	1.000000	2.57311e-27	1.000000
rad51	7.80133e-28	1.000000	7.80133e-28	1.000000
PhcycC3H3_A+H	3.52391e-28	1.000000	3.52391e-28	1.000000
rad55	1.39244e-28	1.000000	1.39244e-28	1.000000
rad58	1.26817e-30	1.000000	1.26817e-30	1.000000
rad65	8.34570e-31	1.000000	8.34570e-31	1.000000
PAH1+H	7.05501e-32	1.000000	7.05501e-32	1.000000
rad34	2.73444e-32	1.000000	2.73444e-32	1.000000
rad42	4.82590e-35	1.000000	4.82590e-35	1.000000
rad47	2.99898e-35	1.000000	2.99898e-35	1.000000
rad41	1.40832e-35	1.000000	1.40832e-35	1.000000

100.000000 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.51464e-19 (1.00)	8.51464e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83711e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56651e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.891253	0.891253	0.891253	0.891253
rad11	0.0551768	0.946430	0.0551768	0.946430
Indene+H	0.0402426	0.986672	0.0402426	0.986672
rad23	0.00800186	0.994674	0.00800186	0.994674
Benzene+2-propynyl	0.00245244	0.997127	0.00245244	0.997127
rad22	0.00141177	0.998538	0.00141177	0.998538
rad45	0.000591996	0.999130	0.000591996	0.999130
C2H2+PhCH2	0.000512080	0.999642	0.000512080	0.999642
rad7	0.000309640	0.999952	0.000309640	0.999952
rad36	3.67264e-05	0.999989	3.67264e-05	0.999989
PhCHCCH2+H	4.50240e-06	0.999993	4.50240e-06	0.999993
rad3	1.60478e-06	0.999995	1.60479e-06	0.999995
rad13	1.12403e-06	0.999996	1.12403e-06	0.999996
rad2	1.04688e-06	0.999997	1.04688e-06	0.999997
rad25	8.52021e-07	0.999998	8.52021e-07	0.999998
rad4	8.19820e-07	0.999999	8.19820e-07	0.999999
rad18	5.08110e-07	0.999999	5.08110e-07	0.999999

rad9	3.05389e-07	1.000000	3.05389e-07	1.000000
rad28	1.47154e-07	1.000000	1.47155e-07	1.000000
Phenyl+Allene	8.39473e-08	1.000000	0.00000	1.000000
rad1	6.88294e-08	1.000000	6.88294e-08	1.000000
rad20	5.51928e-08	1.000000	5.51928e-08	1.000000
rad21	3.41624e-08	1.000000	3.41624e-08	1.000000
rad10	3.21109e-08	1.000000	3.21109e-08	1.000000
rad30	3.02179e-08	1.000000	3.02179e-08	1.000000
PhCCH+CH3	1.89740e-08	1.000000	1.89740e-08	1.000000
rad15	5.94535e-09	1.000000	5.94535e-09	1.000000
rad33	1.30563e-09	1.000000	1.30563e-09	1.000000
PAH9+H	4.47358e-10	1.000000	4.47358e-10	1.000000
rad35	2.29712e-10	1.000000	2.29712e-10	1.000000
rad38	2.14550e-10	1.000000	2.14550e-10	1.000000
PhCH2CCH+H	1.63667e-10	1.000000	1.63667e-10	1.000000
rad14	1.56040e-10	1.000000	1.56040e-10	1.000000
rad8	1.09549e-10	1.000000	1.09549e-10	1.000000
PhCCCH3+H	8.53295e-11	1.000000	8.53296e-11	1.000000
rad26	3.99810e-11	1.000000	3.99810e-11	1.000000
Ph+MeAc	1.87882e-11	1.000000	1.87882e-11	1.000000
rad24	5.19664e-12	1.000000	5.19664e-12	1.000000
rad46	1.94531e-12	1.000000	1.94531e-12	1.000000
rad27	1.46627e-12	1.000000	1.46627e-12	1.000000
rad60syn	1.12672e-12	1.000000	1.12672e-12	1.000000
PAH7+H	7.40163e-13	1.000000	7.40163e-13	1.000000
rad60anti	2.96084e-13	1.000000	2.96084e-13	1.000000
rad39	2.08442e-14	1.000000	2.08442e-14	1.000000
rad31	7.56397e-16	1.000000	7.56397e-16	1.000000
PAH3+H	1.57135e-16	1.000000	1.57135e-16	1.000000
rad12	6.44406e-17	1.000000	6.44406e-17	1.000000
rad59	6.19458e-17	1.000000	6.19458e-17	1.000000
rad5	1.20324e-17	1.000000	1.20324e-17	1.000000
rad37	2.01316e-18	1.000000	2.01316e-18	1.000000
rad50	1.19268e-18	1.000000	1.19268e-18	1.000000
rad19syn	1.78115e-20	1.000000	1.78115e-20	1.000000
rad54	1.02857e-22	1.000000	1.02857e-22	1.000000
rad52	8.64310e-24	1.000000	8.64310e-24	1.000000
rad43	2.14167e-24	1.000000	2.14167e-24	1.000000
rad62	1.10665e-24	1.000000	1.10665e-24	1.000000
PAH10+CH3	3.32991e-25	1.000000	3.32991e-25	1.000000
rad70	7.20797e-26	1.000000	7.20797e-26	1.000000
rad51	1.23283e-26	1.000000	1.23283e-26	1.000000
PhcycC3H3_A+H	9.65325e-27	1.000000	9.65325e-27	1.000000
rad55	3.58872e-27	1.000000	3.58872e-27	1.000000
rad58	4.31388e-29	1.000000	4.31388e-29	1.000000
rad65	1.92448e-29	1.000000	1.92448e-29	1.000000
rad34	4.98897e-30	1.000000	4.98897e-30	1.000000
PAH1+H	3.51997e-30	1.000000	3.51997e-30	1.000000
rad42	6.46434e-33	1.000000	6.46434e-33	1.000000
rad41	1.26199e-33	1.000000	1.26199e-33	1.000000
rad47	1.12666e-33	1.000000	1.12666e-33	1.000000

100.000000 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.81800e-18 (1.00)	1.81800e-18 (1.00)
Formation of rad11	1.64862e-18 (0.907)	1.64862e-18 (0.907)
Formation of rad6	1.62558e-19 (0.0894)	1.62558e-19 (0.0894)
H-abstraction	6.82130e-21 (0.00375)	6.82130e-21 (0.00375)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.899802	0.899802	0.899802	0.899802
rad11	0.0447986	0.944601	0.0447986	0.944601
Indene+H	0.0409737	0.985574	0.0409737	0.985574
rad23	0.00803219	0.993607	0.00803219	0.993607
Benzene+2-propynyl	0.00375209	0.997359	0.00375209	0.997359
rad22	0.00115124	0.998510	0.00115124	0.998510
rad45	0.000582894	0.999093	0.000582895	0.999093
C2H2+PhCH2	0.000546433	0.999639	0.000546433	0.999639
rad7	0.000312406	0.999952	0.000312406	0.999952
rad36	3.61927e-05	0.999988	3.61927e-05	0.999988
PhCHCCH2+H	5.14636e-06	0.999993	5.14636e-06	0.999993
rad3	1.80228e-06	0.999995	1.80228e-06	0.999995
rad2	1.39293e-06	0.999996	1.39293e-06	0.999996
rad13	1.11692e-06	0.999997	1.11692e-06	0.999997
rad4	9.22118e-07	0.999998	9.22118e-07	0.999998
rad25	7.10422e-07	0.999999	7.10422e-07	0.999999
rad18	3.79979e-07	0.999999	3.79979e-07	0.999999

rad9	3.56935e-07	1.000000	3.56935e-07	1.000000
rad28	1.86294e-07	1.000000	1.86294e-07	1.000000
Phenyl+Allene	1.16742e-07	1.000000	0.00000	1.000000
rad1	9.20930e-08	1.000000	9.20931e-08	1.000000
rad10	4.79294e-08	1.000000	4.79294e-08	1.000000
rad20	4.11396e-08	1.000000	4.11396e-08	1.000000
rad30	3.29974e-08	1.000000	3.29975e-08	1.000000
PhCCH+CH3	2.90780e-08	1.000000	2.90780e-08	1.000000
rad21	2.54624e-08	1.000000	2.54624e-08	1.000000
rad15	6.59932e-09	1.000000	6.59932e-09	1.000000
rad33	1.30020e-09	1.000000	1.30021e-09	1.000000
PAH9+H	5.66547e-10	1.000000	5.66547e-10	1.000000
PhCH2CCH+H	3.43857e-10	1.000000	3.43857e-10	1.000000
rad35	2.87324e-10	1.000000	2.87324e-10	1.000000
rad38	2.60079e-10	1.000000	2.60079e-10	1.000000
rad14	1.85320e-10	1.000000	1.85320e-10	1.000000
PhCCCH3+H	1.62609e-10	1.000000	1.62609e-10	1.000000
rad8	1.47518e-10	1.000000	1.47518e-10	1.000000
rad26	7.87657e-11	1.000000	7.87657e-11	1.000000
Ph+MeAc	3.78346e-11	1.000000	3.78346e-11	1.000000
rad24	5.12307e-12	1.000000	5.12307e-12	1.000000
rad46	2.52548e-12	1.000000	2.52548e-12	1.000000
rad27	1.94773e-12	1.000000	1.94773e-12	1.000000
PAH7+H	1.57186e-12	1.000000	1.57186e-12	1.000000
rad60syn	1.49763e-12	1.000000	1.49763e-12	1.000000
rad60anti	4.14781e-13	1.000000	4.14781e-13	1.000000
rad39	4.34669e-14	1.000000	4.34669e-14	1.000000
rad31	9.00258e-16	1.000000	9.00258e-16	1.000000
PAH3+H	4.48301e-16	1.000000	4.48301e-16	1.000000
rad12	2.07477e-16	1.000000	2.07477e-16	1.000000
rad59	1.70061e-16	1.000000	1.70061e-16	1.000000
rad5	4.07710e-17	1.000000	4.07710e-17	1.000000
rad37	7.96097e-18	1.000000	7.96097e-18	1.000000
rad50	3.46923e-18	1.000000	3.46923e-18	1.000000
rad19syn	1.17138e-19	1.000000	1.17138e-19	1.000000
rad54	9.25000e-22	1.000000	9.25000e-22	1.000000
rad52	5.58462e-23	1.000000	5.58462e-23	1.000000
rad43	2.11405e-23	1.000000	2.11405e-23	1.000000
rad62	1.23024e-23	1.000000	1.23024e-23	1.000000
PAH10+CH3	3.93096e-24	1.000000	3.93096e-24	1.000000
rad70	1.30253e-24	1.000000	1.30253e-24	1.000000
PhcycC3H3_A+H	1.80381e-25	1.000000	1.80381e-25	1.000000
rad51	1.43102e-25	1.000000	1.43102e-25	1.000000
rad55	6.34119e-26	1.000000	6.34119e-26	1.000000
rad58	8.87397e-28	1.000000	8.87397e-28	1.000000
rad65	3.08457e-28	1.000000	3.08458e-28	1.000000
rad34	2.35758e-28	1.000000	2.35758e-28	1.000000
PAH1+H	1.07063e-28	1.000000	1.07063e-28	1.000000
rad42	3.19669e-31	1.000000	3.19669e-31	1.000000
rad41	6.04995e-32	1.000000	6.04996e-32	1.000000
rad47	2.31512e-32	1.000000	2.31512e-32	1.000000

100.000000 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.56414e-18 (1.00)	3.56414e-18 (1.00)
Formation of rad11	3.18264e-18 (0.893)	3.18264e-18 (0.893)
Formation of rad6	3.62173e-19 (0.102)	3.62173e-19 (0.102)
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.906212	0.906212	0.906212	0.906212
Indene+H	0.0415810	0.947793	0.0415811	0.947793
rad11	0.0363056	0.984099	0.0363056	0.984099
rad23	0.00802440	0.992123	0.00802440	0.992123
Benzene+2-propynyl	0.00542285	0.997546	0.00542285	0.997546
rad22	0.000935483	0.998481	0.000935484	0.998481
C2H2+PhCH2	0.000582557	0.999064	0.000582557	0.999064
rad45	0.000572622	0.999636	0.000572622	0.999637
rad7	0.000314018	0.999951	0.000314018	0.999951
rad36	3.55954e-05	0.999986	3.55954e-05	0.999986
PhCHCCH2+H	5.88348e-06	0.999992	5.88349e-06	0.999992
rad3	2.00325e-06	0.999994	2.00325e-06	0.999994
rad2	1.83200e-06	0.999996	1.83200e-06	0.999996
rad13	1.10864e-06	0.999997	1.10864e-06	0.999997
rad4	1.02666e-06	0.999998	1.02666e-06	0.999998
rad25	5.90258e-07	0.999999	5.90258e-07	0.999999
rad9	4.17041e-07	0.999999	4.17041e-07	0.999999

rad18	2.85216e-07	0.999999	2.85216e-07	0.999999
rad28	2.35326e-07	0.999999	2.35326e-07	1.000000
Phenyl+Allene	1.60631e-07	1.000000	0.000000	1.000000
rad1	1.21859e-07	1.000000	1.21859e-07	1.000000
rad10	7.01489e-08	1.000000	7.01489e-08	1.000000
PhCCH+CH3	4.40898e-08	1.000000	4.40898e-08	1.000000
rad30	3.60215e-08	1.000000	3.60215e-08	1.000000
rad20	3.08341e-08	1.000000	3.08341e-08	1.000000
rad21	1.90843e-08	1.000000	1.90843e-08	1.000000
rad15	7.32623e-09	1.000000	7.32623e-09	1.000000
rad33	1.29365e-09	1.000000	1.29365e-09	1.000000
PAH9+H	7.15792e-10	1.000000	7.15792e-10	1.000000
PhCH2CCH+H	6.78351e-10	1.000000	6.78351e-10	1.000000
rad35	3.58315e-10	1.000000	3.58315e-10	1.000000
rad38	3.15938e-10	1.000000	3.15938e-10	1.000000
PhCCCH3+H	3.06228e-10	1.000000	3.06228e-10	1.000000
rad14	2.16234e-10	1.000000	2.16234e-10	1.000000
rad8	1.98422e-10	1.000000	1.98422e-10	1.000000
rad26	1.51912e-10	1.000000	1.51912e-10	1.000000
Ph+MeAc	7.49822e-11	1.000000	7.49823e-11	1.000000
rad24	5.04365e-12	1.000000	5.04365e-12	1.000000
rad46	3.29326e-12	1.000000	3.29326e-12	1.000000
PAH7+H	3.14748e-12	1.000000	3.14748e-12	1.000000
rad27	2.55586e-12	1.000000	2.55586e-12	1.000000
rad60syn	1.98414e-12	1.000000	1.98414e-12	1.000000
rad60anti	5.75437e-13	1.000000	5.75437e-13	1.000000
rad39	9.04343e-14	1.000000	9.04343e-14	1.000000
PAH3+H	1.15301e-15	1.000000	1.15301e-15	1.000000
rad31	1.06570e-15	1.000000	1.06570e-15	1.000000
rad12	6.46685e-16	1.000000	6.46685e-16	1.000000
rad59	4.21637e-16	1.000000	4.21637e-16	1.000000
rad5	1.29108e-16	1.000000	1.29108e-16	1.000000
rad37	2.97180e-17	1.000000	2.97180e-17	1.000000
rad50	9.30190e-18	1.000000	9.30190e-18	1.000000
rad19syn	6.38526e-19	1.000000	6.38526e-19	1.000000
rad54	6.63123e-21	1.000000	6.63123e-21	1.000000
rad52	2.98265e-22	1.000000	2.98266e-22	1.000000
rad43	1.68903e-22	1.000000	1.68903e-22	1.000000
rad62	1.06771e-22	1.000000	1.06771e-22	1.000000
PAH10+CH3	3.78351e-23	1.000000	3.78352e-23	1.000000
rad70	1.66996e-23	1.000000	1.66996e-23	1.000000
PhcycC3H3_A+H	2.44937e-24	1.000000	2.44937e-24	1.000000
rad51	1.28138e-24	1.000000	1.28138e-24	1.000000
rad55	8.18061e-25	1.000000	8.18061e-25	1.000000
rad58	1.26926e-26	1.000000	1.26926e-26	1.000000
rad34	5.13553e-27	1.000000	5.13553e-27	1.000000
rad65	3.65244e-27	1.000000	3.65244e-27	1.000000
PAH1+H	2.14811e-27	1.000000	2.14811e-27	1.000000
rad42	8.16474e-30	1.000000	8.16474e-30	1.000000
rad41	1.57155e-30	1.000000	1.57155e-30	1.000000
rad47	3.29173e-31	1.000000	3.29173e-31	1.000000

100.000000 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.50681e-18 (1.00)	6.50681e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71915e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39013e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.910774	0.910774	0.910774	0.910774
Indene+H	0.0420899	0.952864	0.0420899	0.952864
rad11	0.0293710	0.982235	0.0293710	0.982235
rad23	0.00798280	0.990218	0.00798281	0.990218
Benzene+2-propynyl	0.00747672	0.997695	0.00747672	0.997695
rad22	0.000757832	0.998452	0.000757832	0.998452
C2H2+PhCH2	0.000620812	0.999073	0.000620812	0.999073
rad45	0.000561268	0.999635	0.000561268	0.999635
rad7	0.000314668	0.999949	0.000314668	0.999949
rad36	3.49401e-05	0.999984	3.49402e-05	0.999984
PhCHCCH2+H	6.72919e-06	0.999991	6.72919e-06	0.999991
rad2	2.38427e-06	0.999993	2.38428e-06	0.999993
rad3	2.20534e-06	0.999995	2.20534e-06	0.999995
rad4	1.13230e-06	0.999997	1.13230e-06	0.999997
rad13	1.09942e-06	0.999998	1.09942e-06	0.999998
rad25	4.88835e-07	0.999998	4.88835e-07	0.999998
rad9	4.87182e-07	0.999999	4.87182e-07	0.999999

rad28	2.96863e-07	0.999999	2.96864e-07	0.999999
Phenyl+Allene	2.18877e-07	0.999999	0.00000	0.999999
rad18	2.14773e-07	0.999999	2.14773e-07	0.999999
rad1	1.59641e-07	1.000000	1.59641e-07	0.999999
rad10	1.00788e-07	1.000000	1.00788e-07	0.999999
PhCCH+CH3	6.62049e-08	1.000000	6.62049e-08	0.999999
rad30	3.93298e-08	1.000000	3.93298e-08	1.000000
rad20	2.32228e-08	1.000000	2.32228e-08	1.000000
rad21	1.43745e-08	1.000000	1.43745e-08	1.000000
rad15	8.13805e-09	1.000000	8.13805e-09	1.000000
rad33	1.28620e-09	1.000000	1.28620e-09	1.000000
PhCH2CCH+H	1.26935e-09	1.000000	1.26935e-09	1.000000
PAH9+H	9.03099e-10	1.000000	9.03099e-10	1.000000
PhCCCH3+H	5.70301e-10	1.000000	5.70301e-10	1.000000
rad35	4.45975e-10	1.000000	4.45975e-10	1.000000
rad38	3.84839e-10	1.000000	3.84839e-10	1.000000
rad26	2.87078e-10	1.000000	2.87078e-10	1.000000
rad8	2.66750e-10	1.000000	2.66750e-10	1.000000
rad14	2.48285e-10	1.000000	2.48285e-10	1.000000
Ph+MeAc	1.46531e-10	1.000000	1.46531e-10	1.000000
PAH7+H	6.00223e-12	1.000000	6.00223e-12	1.000000
rad24	4.95858e-12	1.000000	4.95858e-12	1.000000
rad46	4.31450e-12	1.000000	4.31450e-12	1.000000
rad27	3.31719e-12	1.000000	3.31719e-12	1.000000
rad60syn	2.62036e-12	1.000000	2.62036e-12	1.000000
rad60anti	7.91619e-13	1.000000	7.91619e-13	1.000000
rad39	1.87728e-13	1.000000	1.87728e-13	1.000000
PAH3+H	2.72248e-15	1.000000	2.72248e-15	1.000000
rad12	1.94998e-15	1.000000	1.94998e-15	1.000000
rad31	1.25617e-15	1.000000	1.25617e-15	1.000000
rad59	9.61401e-16	1.000000	9.61401e-16	1.000000
rad5	3.85064e-16	1.000000	3.85064e-16	1.000000
rad37	1.05126e-16	1.000000	1.05126e-16	1.000000
rad50	2.32919e-17	1.000000	2.32919e-17	1.000000
rad19syn	2.97356e-18	1.000000	2.97356e-18	1.000000
rad54	3.93134e-20	1.000000	3.93134e-20	1.000000
rad52	1.35753e-21	1.000000	1.35753e-21	1.000000
rad43	1.12395e-21	1.000000	1.12395e-21	1.000000
rad62	7.51626e-22	1.000000	7.51626e-22	1.000000
PAH10+CH3	3.04127e-22	1.000000	3.04127e-22	1.000000
rad70	1.61670e-22	1.000000	1.61670e-22	1.000000
PhcycC3H3_A+H	2.54964e-23	1.000000	2.54964e-23	1.000000
rad51	9.22323e-24	1.000000	9.22323e-24	1.000000
rad55	8.11948e-24	1.000000	8.11948e-24	1.000000
rad58	1.35890e-25	1.000000	1.35890e-25	1.000000
rad34	7.63953e-26	1.000000	7.63953e-26	1.000000
rad65	3.35698e-26	1.000000	3.35698e-26	1.000000
PAH1+H	3.14017e-26	1.000000	3.14017e-26	1.000000
rad42	1.41412e-28	1.000000	1.41412e-28	1.000000
rad41	2.79504e-29	1.000000	2.79504e-29	1.000000
rad47	3.44673e-30	1.000000	3.44673e-30	1.000000

100.000000 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.11858e-17 (1.00)	1.11858e-17 (1.00)
Formation of rad11	9.67466e-18 (0.865)	9.67465e-18 (0.865)
Formation of rad6	1.40029e-18 (0.125)	1.40029e-18 (0.125)
H-abstraction	1.10851e-19 (0.00991)	1.10851e-19 (0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.913745	0.913745	0.913746	0.913746
Indene+H	0.0425224	0.956268	0.0425224	0.956269
rad11	0.0237217	0.979989	0.0237217	0.979990
Benzene+2-propynyl	0.00990995	0.989899	0.00990996	0.989900
rad23	0.00791101	0.997810	0.00791101	0.997811
C2H2+PhCH2	0.000661568	0.998472	0.000661568	0.998473
rad22	0.000612312	0.999084	0.000612312	0.999085
rad45	0.000548922	0.999633	0.000548922	0.999634
rad7	0.000314523	0.999948	0.000314523	0.999949
rad36	3.42326e-05	0.999982	3.42327e-05	0.999983
PhCHCCH2+H	7.70115e-06	0.999989	7.70115e-06	0.999990
rad2	3.07348e-06	0.999993	3.07348e-06	0.999994
rad3	2.40628e-06	0.999995	2.40628e-06	0.999996
rad4	1.23794e-06	0.999996	1.23794e-06	0.999997
rad13	1.08948e-06	0.999997	1.08948e-06	0.999998
rad9	5.69054e-07	0.999998	5.69055e-07	0.999999
rad25	4.03646e-07	0.999998	4.03646e-07	0.999999

rad28	3.74256e-07	0.999999	3.74256e-07	1.000000
Phenyl+Allene	2.95579e-07	0.999999	0.00000	1.000000
rad1	2.07264e-07	0.999999	2.07264e-07	1.000000
rad18	1.62185e-07	0.999999	1.62185e-07	1.000000
rad10	1.42304e-07	0.999999	1.42304e-07	1.000000
PhCCH+CH3	9.85352e-08	1.000000	9.85352e-08	1.000000
rad30	4.29661e-08	1.000000	4.29661e-08	1.000000
rad20	1.75667e-08	1.000000	1.75667e-08	1.000000
rad21	1.08750e-08	1.000000	1.08750e-08	1.000000
rad15	9.04819e-09	1.000000	9.04820e-09	1.000000
PhCH2CCH+H	2.27117e-09	1.000000	2.27117e-09	1.000000
rad33	1.27812e-09	1.000000	1.27812e-09	1.000000
PAH9+H	1.13857e-09	1.000000	1.13857e-09	1.000000
PhCCCH3+H	1.05070e-09	1.000000	1.05070e-09	1.000000
rad35	5.54385e-10	1.000000	5.54385e-10	1.000000
rad26	5.31949e-10	1.000000	5.31949e-10	1.000000
rad38	4.70202e-10	1.000000	4.70203e-10	1.000000
rad8	3.58680e-10	1.000000	3.58680e-10	1.000000
Ph+MeAc	2.82770e-10	1.000000	2.82770e-10	1.000000
rad14	2.80957e-10	1.000000	2.80957e-10	1.000000
PAH7+H	1.10000e-11	1.000000	1.10000e-11	1.000000
rad46	5.67808e-12	1.000000	5.67808e-12	1.000000
rad24	4.86810e-12	1.000000	4.86810e-12	1.000000
rad27	4.26275e-12	1.000000	4.26275e-12	1.000000
rad60syn	3.44983e-12	1.000000	3.44983e-12	1.000000
rad60anti	1.08091e-12	1.000000	1.08091e-12	1.000000
rad39	3.88639e-13	1.000000	3.88639e-13	1.000000
PAH3+H	5.98704e-15	1.000000	5.98704e-15	1.000000
rad12	5.68464e-15	1.000000	5.68465e-15	1.000000
rad59	2.04518e-15	1.000000	2.04518e-15	1.000000
rad31	1.47606e-15	1.000000	1.47606e-15	1.000000
rad5	1.08848e-15	1.000000	1.08848e-15	1.000000
rad37	3.53355e-16	1.000000	3.53355e-16	1.000000
rad50	5.50365e-17	1.000000	5.50365e-17	1.000000
rad19syn	1.21256e-17	1.000000	1.21256e-17	1.000000
rad54	1.98575e-19	1.000000	1.98576e-19	1.000000
rad43	6.38301e-21	1.000000	6.38301e-21	1.000000
rad52	5.39898e-21	1.000000	5.39899e-21	1.000000
rad62	4.42815e-21	1.000000	4.42815e-21	1.000000
PAH10+CH3	2.08333e-21	1.000000	2.08333e-21	1.000000
rad70	1.23601e-21	1.000000	1.23601e-21	1.000000
PhcycC3H3_A+H	2.11625e-22	1.000000	2.11625e-22	1.000000
rad55	6.45079e-23	1.000000	6.45080e-23	1.000000
rad51	5.51784e-23	1.000000	5.51784e-23	1.000000
rad58	1.14080e-24	1.000000	1.14080e-24	1.000000
rad34	8.45433e-25	1.000000	8.45433e-25	1.000000
PAH1+H	3.50480e-25	1.000000	3.50480e-25	1.000000
rad65	2.48826e-25	1.000000	2.48826e-25	1.000000
rad42	1.78960e-27	1.000000	1.78960e-27	1.000000
rad41	3.64092e-28	1.000000	3.64092e-28	1.000000
rad47	2.78322e-29	1.000000	2.78322e-29	1.000000

100.000000 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.82690e-17 (1.00)	1.82690e-17 (1.00)
Formation of rad11	1.55456e-17 (0.851)	1.55456e-17 (0.851)
Formation of rad6	2.49126e-18 (0.136)	2.49126e-18 (0.136)
H-abstraction	2.32112e-19 (0.0127)	2.32112e-19 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.915354	0.915354	0.915354	0.915354
Indene+H	0.0428979	0.958251	0.0428979	0.958251
rad11	0.0191295	0.977381	0.0191295	0.977381
Benzene+2-propynyl	0.0127053	0.990086	0.0127053	0.990086
rad23	0.00781201	0.997898	0.00781201	0.997898
C2H2+PhCH2	0.000705208	0.998603	0.000705208	0.998603
rad45	0.000535667	0.999139	0.000535667	0.999139
rad22	0.000493660	0.999633	0.000493660	0.999633
rad7	0.000313731	0.999946	0.000313731	0.999946
rad36	3.34781e-05	0.999980	3.34781e-05	0.999980
PhCHCCH2+H	8.81962e-06	0.999989	8.81962e-06	0.999989
rad2	3.92741e-06	0.999993	3.92741e-06	0.999993
rad3	2.60396e-06	0.999995	2.60396e-06	0.999995
rad4	1.34256e-06	0.999997	1.34256e-06	0.999997
rad13	1.07900e-06	0.999998	1.07900e-06	0.999998
rad9	6.64610e-07	0.999998	6.64610e-07	0.999998
rad28	4.71791e-07	0.999999	4.71791e-07	0.999999

Phenyl+Allene	3.95840e-07	0.999999	0.00000	0.999999
rad25	3.32409e-07	1.000000	3.32409e-07	0.999999
rad1	2.66915e-07	1.000000	2.66915e-07	0.999999
rad10	1.97637e-07	1.000000	1.97637e-07	1.000000
PhCCH+CH3	1.45474e-07	1.000000	1.45474e-07	1.000000
rad18	1.22786e-07	1.000000	1.22786e-07	1.000000
rad30	4.69781e-08	1.000000	4.69782e-08	1.000000
rad20	1.33414e-08	1.000000	1.33414e-08	1.000000
rad15	1.00718e-08	1.000000	1.00718e-08	1.000000
rad21	8.26075e-09	1.000000	8.26075e-09	1.000000
PhCH2CCH+H	3.91081e-09	1.000000	3.91081e-09	1.000000
PhCCCH3+H	1.91527e-09	1.000000	1.91527e-09	1.000000
PAH9+H	1.43491e-09	1.000000	1.43492e-09	1.000000
rad33	1.26958e-09	1.000000	1.26958e-09	1.000000
rad26	9.67042e-10	1.000000	9.67042e-10	1.000000
rad35	6.88577e-10	1.000000	6.88578e-10	1.000000
rad38	5.76324e-10	1.000000	5.76325e-10	1.000000
Ph+MeAc	5.39382e-10	1.000000	5.39382e-10	1.000000
rad8	4.82828e-10	1.000000	4.82828e-10	1.000000
rad14	3.13752e-10	1.000000	3.13753e-10	1.000000
PAH7+H	1.95303e-11	1.000000	1.95303e-11	1.000000
rad46	7.50370e-12	1.000000	7.50370e-12	1.000000
rad27	5.42874e-12	1.000000	5.42875e-12	1.000000
rad24	4.77249e-12	1.000000	4.77249e-12	1.000000
rad60syn	4.52784e-12	1.000000	4.52784e-12	1.000000
rad60anti	1.46599e-12	1.000000	1.46599e-12	1.000000
rad39	8.01745e-13	1.000000	8.01745e-13	1.000000
rad12	1.60116e-14	1.000000	1.60116e-14	1.000000
PAH3+H	1.24037e-14	1.000000	1.24037e-14	1.000000
rad59	4.10548e-15	1.000000	4.10548e-15	1.000000
rad5	2.93070e-15	1.000000	2.93070e-15	1.000000
rad31	1.73100e-15	1.000000	1.73100e-15	1.000000
rad37	1.13060e-15	1.000000	1.13060e-15	1.000000
rad50	1.23733e-16	1.000000	1.23733e-16	1.000000
rad19syn	4.41749e-17	1.000000	4.41749e-17	1.000000
rad54	8.75424e-19	1.000000	8.75425e-19	1.000000
rad43	3.15677e-20	1.000000	3.15677e-20	1.000000
rad62	2.23949e-20	1.000000	2.23949e-20	1.000000
rad52	1.91492e-20	1.000000	1.91492e-20	1.000000
PAH10+CH3	1.23645e-20	1.000000	1.23645e-20	1.000000
rad70	7.73254e-21	1.000000	7.73254e-21	1.000000
PhcycC3H3_A+H	1.44515e-21	1.000000	1.44515e-21	1.000000
rad55	4.23374e-22	1.000000	4.23374e-22	1.000000
rad51	2.81898e-22	1.000000	2.81899e-22	1.000000
rad58	7.78525e-24	1.000000	7.78525e-24	1.000000
rad34	7.30735e-24	1.000000	7.30735e-24	1.000000
PAH1+H	3.09806e-24	1.000000	3.09806e-24	1.000000
rad65	1.53391e-24	1.000000	1.53392e-24	1.000000
rad42	1.74187e-26	1.000000	1.74187e-26	1.000000
rad41	3.65004e-27	1.000000	3.65004e-27	1.000000
rad47	1.80038e-28	1.000000	1.80038e-28	1.000000

100.000000 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.85520e-17 (1.00)	2.85520e-17 (1.00)
Formation of rad11	2.39009e-17 (0.837)	2.39009e-17 (0.837)
Formation of rad6	4.19900e-18 (0.147)	4.19900e-18 (0.147)
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.915799	0.915799	0.915800	0.915800
Indene+H	0.0432328	0.959032	0.0432328	0.959033
Benzene+2-propynyl	0.0158346	0.974867	0.0158346	0.974868
rad11	0.0154050	0.990272	0.0154050	0.990273
rad23	0.00768829	0.997960	0.00768829	0.997961
C2H2+PhCH2	0.000752130	0.998712	0.000752131	0.998713
rad45	0.000521580	0.999234	0.000521581	0.999235
rad22	0.000397311	0.999631	0.000397311	0.999632
rad7	0.000312414	0.999944	0.000312414	0.999945
rad36	3.26812e-05	0.999976	3.26812e-05	0.999977
PhCHCCH2+H	1.01078e-05	0.999986	1.01078e-05	0.999987
rad2	4.97850e-06	0.999991	4.97851e-06	0.999992
rad3	2.79656e-06	0.999994	2.79656e-06	0.999995
rad4	1.44531e-06	0.999996	1.44531e-06	0.999997
rad13	1.06816e-06	0.999997	1.06816e-06	0.999998
rad9	7.76082e-07	0.999997	7.76082e-07	0.999998
rad28	5.94950e-07	0.999998	5.94950e-07	0.999999

Phenyl+Allene	5.25989e-07	0.999999	0.00000	0.999999
rad1	3.41212e-07	0.999999	3.41212e-07	0.999999
rad25	2.73081e-07	0.999999	2.73081e-07	1.000000
rad10	2.70244e-07	0.999999	2.70245e-07	1.000000
PhCCH+CH3	2.13203e-07	1.000000	2.13203e-07	1.000000
rad18	9.31766e-08	1.000000	9.31767e-08	1.000000
rad30	5.14183e-08	1.000000	5.14183e-08	1.000000
rad15	1.12256e-08	1.000000	1.12256e-08	1.000000
rad20	1.01704e-08	1.000000	1.01704e-08	1.000000
PhCH2CCH+H	6.51487e-09	1.000000	6.51487e-09	1.000000
rad21	6.29878e-09	1.000000	6.29879e-09	1.000000
PhCCCH3+H	3.45389e-09	1.000000	3.45389e-09	1.000000
PAH9+H	1.80797e-09	1.000000	1.80797e-09	1.000000
rad26	1.72555e-09	1.000000	1.72555e-09	1.000000
rad33	1.26078e-09	1.000000	1.26078e-09	1.000000
Ph+MeAc	1.01753e-09	1.000000	1.01753e-09	1.000000
rad35	8.54722e-10	1.000000	8.54723e-10	1.000000
rad38	7.08578e-10	1.000000	7.08578e-10	1.000000
rad8	6.51393e-10	1.000000	6.51393e-10	1.000000
rad14	3.46214e-10	1.000000	3.46215e-10	1.000000
PAH7+H	3.38407e-11	1.000000	3.38407e-11	1.000000
rad46	9.95168e-12	1.000000	9.95168e-12	1.000000
rad27	6.85724e-12	1.000000	6.85724e-12	1.000000
rad60syn	5.92440e-12	1.000000	5.92440e-12	1.000000
rad24	4.67203e-12	1.000000	4.67203e-12	1.000000
rad60anti	1.97598e-12	1.000000	1.97599e-12	1.000000
rad39	1.64643e-12	1.000000	1.64643e-12	1.000000
rad12	4.35460e-14	1.000000	4.35460e-14	1.000000
PAH3+H	2.44319e-14	1.000000	2.44320e-14	1.000000
rad59	7.84770e-15	1.000000	7.84770e-15	1.000000
rad5	7.54516e-15	1.000000	7.54517e-15	1.000000
rad37	3.44758e-15	1.000000	3.44759e-15	1.000000
rad31	2.02837e-15	1.000000	2.02837e-15	1.000000
rad50	2.66401e-16	1.000000	2.66402e-16	1.000000
rad19syn	1.46135e-16	1.000000	1.46135e-16	1.000000
rad54	3.43420e-18	1.000000	3.43420e-18	1.000000
rad43	1.38218e-19	1.000000	1.38218e-19	1.000000
rad62	9.92373e-20	1.000000	9.92373e-20	1.000000
PAH10+CH3	6.44328e-20	1.000000	6.44329e-20	1.000000
rad52	6.15858e-20	1.000000	6.15858e-20	1.000000
rad70	4.07288e-20	1.000000	4.07288e-20	1.000000
PhcycC3H3_A+H	8.32432e-21	1.000000	8.32432e-21	1.000000
rad55	2.35359e-21	1.000000	2.35359e-21	1.000000
rad51	1.25702e-21	1.000000	1.25702e-21	1.000000
rad34	5.10534e-23	1.000000	5.10534e-23	1.000000
rad58	4.44415e-23	1.000000	4.44415e-23	1.000000
PAH1+H	2.23221e-23	1.000000	2.23221e-23	1.000000
rad65	8.06151e-24	1.000000	8.06152e-24	1.000000
rad42	1.35107e-25	1.000000	1.35107e-25	1.000000
rad41	2.91527e-26	1.000000	2.91527e-26	1.000000
rad47	9.62631e-28	1.000000	9.62631e-28	1.000000

100.000000 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.29529e-17 (1.00)	4.29528e-17 (1.00)
Formation of rad11	3.53712e-17 (0.823)	3.53711e-17 (0.823)
Formation of rad6	6.75433e-18 (0.157)	6.75432e-18 (0.157)
H-abstraction	8.27372e-19 (0.0193)	8.27372e-19 (0.0193)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.915265	0.915265	0.915266	0.915266
Indene+H	0.0435416	0.958806	0.0435417	0.958807
Benzene+2-propynyl	0.0192623	0.978069	0.0192623	0.978070
rad11	0.0123907	0.990459	0.0123907	0.990460
rad23	0.00754195	0.998001	0.00754196	0.998002
C2H2+PhCH2	0.000802751	0.998804	0.000802751	0.998805
rad45	0.000506733	0.999311	0.000506733	0.999312
rad22	0.000319360	0.999630	0.000319360	0.999631
rad7	0.000310682	0.999941	0.000310682	0.999942
rad36	3.18461e-05	0.999973	3.18461e-05	0.999974
PhCHCCH2+H	1.15923e-05	0.999984	1.15923e-05	0.999985
rad2	6.26437e-06	0.999990	6.26437e-06	0.999992
rad3	2.98265e-06	0.999993	2.98265e-06	0.999995
rad4	1.54549e-06	0.999995	1.54549e-06	0.999996
rad13	1.05709e-06	0.999996	1.05709e-06	0.999997
rad9	9.06026e-07	0.999997	9.06027e-07	0.999998
rad28	7.50728e-07	0.999998	7.50729e-07	0.999999

Phenyl+Allene	6.93824e-07	0.999998	0.00000	0.999999
rad1	4.33279e-07	0.999999	4.33279e-07	0.999999
rad10	3.64137e-07	0.999999	3.64137e-07	1.000000
PhCCH+CH3	3.10393e-07	1.000000	3.10393e-07	1.000000
rad25	2.23853e-07	1.000000	2.23853e-07	1.000000
rad18	7.08667e-08	1.000000	7.08668e-08	1.000000
rad30	5.63441e-08	1.000000	5.63442e-08	1.000000
rad15	1.25288e-08	1.000000	1.25289e-08	1.000000
PhCH2CCH+H	1.05443e-08	1.000000	1.05443e-08	1.000000
rad20	7.78075e-09	1.000000	7.78075e-09	1.000000
PhCCCH3+H	6.16000e-09	1.000000	6.16001e-09	1.000000
rad21	4.82021e-09	1.000000	4.82021e-09	1.000000
rad26	3.02317e-09	1.000000	3.02317e-09	1.000000
PAH9+H	2.27737e-09	1.000000	2.27737e-09	1.000000
Ph+MeAc	1.89851e-09	1.000000	1.89852e-09	1.000000
rad33	1.25189e-09	1.000000	1.25189e-09	1.000000
rad35	1.06032e-09	1.000000	1.06033e-09	1.000000
rad8	8.81928e-10	1.000000	8.81929e-10	1.000000
rad38	8.73642e-10	1.000000	8.73643e-10	1.000000
rad14	3.77944e-10	1.000000	3.77944e-10	1.000000
PAH7+H	5.76076e-11	1.000000	5.76076e-11	1.000000
rad46	1.32354e-11	1.000000	1.32354e-11	1.000000
rad27	8.59691e-12	1.000000	8.59691e-12	1.000000
rad60syn	7.72760e-12	1.000000	7.72760e-12	1.000000
rad24	4.56694e-12	1.000000	4.56694e-12	1.000000
rad39	3.36154e-12	1.000000	3.36155e-12	1.000000
rad60anti	2.64802e-12	1.000000	2.64803e-12	1.000000
rad12	1.14272e-13	1.000000	1.14272e-13	1.000000
PAH3+H	4.60928e-14	1.000000	4.60929e-14	1.000000
rad5	1.86298e-14	1.000000	1.86298e-14	1.000000
rad59	1.43889e-14	1.000000	1.43889e-14	1.000000
rad37	1.00264e-14	1.000000	1.00264e-14	1.000000
rad31	2.37781e-15	1.000000	2.37781e-15	1.000000
rad50	5.52148e-16	1.000000	5.52149e-16	1.000000
rad19syn	4.44775e-16	1.000000	4.44776e-16	1.000000
rad54	1.21744e-17	1.000000	1.21744e-17	1.000000
rad43	5.43011e-19	1.000000	5.43011e-19	1.000000
rad62	3.91679e-19	1.000000	3.91679e-19	1.000000
PAH10+CH3	2.98053e-19	1.000000	2.98053e-19	1.000000
rad70	1.84817e-19	1.000000	1.84817e-19	1.000000
rad52	1.82040e-19	1.000000	1.82040e-19	1.000000
PhcycC3H3_A+H	4.12672e-20	1.000000	4.12673e-20	1.000000
rad55	1.13069e-20	1.000000	1.13069e-20	1.000000
rad51	4.97883e-21	1.000000	4.97884e-21	1.000000
rad34	2.96361e-22	1.000000	2.96362e-22	1.000000
rad58	2.17136e-22	1.000000	2.17136e-22	1.000000
PAH1+H	1.34287e-22	1.000000	1.34287e-22	1.000000
rad65	3.68469e-23	1.000000	3.68469e-23	1.000000
rad42	8.59739e-25	1.000000	8.59739e-25	1.000000
rad41	1.90910e-25	1.000000	1.90910e-25	1.000000
rad47	4.36615e-27	1.000000	4.36616e-27	1.000000

100.000000 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.25016e-17 (1.00)	6.25016e-17 (1.00)
Formation of rad11	5.06355e-17 (0.810)	5.06355e-17 (0.810)
Formation of rad6	1.04318e-17 (0.167)	1.04318e-17 (0.167)
H-abstraction	1.43428e-18 (0.0229)	1.43428e-18 (0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.913908	0.913908	0.913909	0.913909
Indene+H	0.0438366	0.957745	0.0438367	0.957746
Benzene+2-propynyl	0.0229478	0.980693	0.0229478	0.980694
rad11	0.00995616	0.990649	0.00995616	0.990650
rad23	0.00737480	0.998024	0.00737481	0.998025
C2H2+PhCH2	0.000857508	0.998881	0.000857509	0.998882
rad45	0.000491191	0.999372	0.000491191	0.999373
rad7	0.000308623	0.999681	0.000308623	0.999682
rad22	0.000256498	0.999937	0.000256499	0.999939
rad36	3.09764e-05	0.999968	3.09764e-05	0.999970
PhCHCCH2+H	1.33038e-05	0.999982	1.33038e-05	0.999983
rad2	7.82831e-06	0.999990	7.82832e-06	0.999991
rad3	3.16119e-06	0.999993	3.16119e-06	0.999994
rad4	1.64262e-06	0.999994	1.64262e-06	0.999995
rad9	1.05736e-06	0.999995	1.05737e-06	0.999997
rad13	1.04591e-06	0.999996	1.04591e-06	0.999998
rad28	9.48035e-07	0.999997	9.48035e-07	0.999998

Phenyl+Allene	9.08912e-07	0.999998	0.00000	0.999998
rad1	5.46826e-07	0.999999	5.46826e-07	0.999999
rad10	4.83893e-07	0.999999	4.83893e-07	1.000000
PhCCH+CH3	4.49181e-07	1.000000	4.49181e-07	1.000000
rad25	1.83145e-07	1.000000	1.83145e-07	1.000000
rad30	6.18188e-08	1.000000	6.18188e-08	1.000000
rad18	5.40174e-08	1.000000	5.40175e-08	1.000000
PhCH2CCH+H	1.66391e-08	1.000000	1.66392e-08	1.000000
rad15	1.40028e-08	1.000000	1.40028e-08	1.000000
PhCCCH3+H	1.08602e-08	1.000000	1.08602e-08	1.000000
rad20	5.97342e-09	1.000000	5.97343e-09	1.000000
rad26	5.20173e-09	1.000000	5.20173e-09	1.000000
rad21	3.70180e-09	1.000000	3.70180e-09	1.000000
Ph+MeAc	3.50230e-09	1.000000	3.50230e-09	1.000000
PAH9+H	2.86734e-09	1.000000	2.86735e-09	1.000000
rad35	1.31448e-09	1.000000	1.31448e-09	1.000000
rad33	1.24304e-09	1.000000	1.24304e-09	1.000000
rad8	1.20004e-09	1.000000	1.20004e-09	1.000000
rad38	1.07978e-09	1.000000	1.07978e-09	1.000000
rad14	4.08623e-10	1.000000	4.08623e-10	1.000000
PAH7+H	9.69327e-11	1.000000	9.69328e-11	1.000000
rad46	1.76377e-11	1.000000	1.76378e-11	1.000000
rad27	1.07036e-11	1.000000	1.07036e-11	1.000000
rad60syn	1.00480e-11	1.000000	1.00480e-11	1.000000
rad39	6.81428e-12	1.000000	6.81429e-12	1.000000
rad24	4.45745e-12	1.000000	4.45745e-12	1.000000
rad60anti	3.52933e-12	1.000000	3.52933e-12	1.000000
rad12	2.89142e-13	1.000000	2.89143e-13	1.000000
PAH3+H	8.37849e-14	1.000000	8.37850e-14	1.000000
rad5	4.42150e-14	1.000000	4.42150e-14	1.000000
rad37	2.78216e-14	1.000000	2.78217e-14	1.000000
rad59	2.54548e-14	1.000000	2.54548e-14	1.000000
rad31	2.79203e-15	1.000000	2.79203e-15	1.000000
rad19syn	1.25860e-15	1.000000	1.25860e-15	1.000000
rad50	1.10622e-15	1.000000	1.10622e-15	1.000000
rad54	3.94788e-17	1.000000	3.94788e-17	1.000000
rad43	1.93504e-18	1.000000	1.93504e-18	1.000000
rad62	1.39511e-18	1.000000	1.39511e-18	1.000000
PAH10+CH3	1.23520e-18	1.000000	1.23520e-18	1.000000
rad70	7.36136e-19	1.000000	7.36137e-19	1.000000
rad52	4.99969e-19	1.000000	4.99970e-19	1.000000
PhcycC3H3_A+H	1.78992e-19	1.000000	1.78992e-19	1.000000
rad55	4.77125e-20	1.000000	4.77125e-20	1.000000
rad51	1.77648e-20	1.000000	1.77648e-20	1.000000
rad34	1.46232e-21	1.000000	1.46232e-21	1.000000
rad58	9.25174e-22	1.000000	9.25174e-22	1.000000
PAH1+H	6.88433e-22	1.000000	6.88434e-22	1.000000
rad65	1.48856e-22	1.000000	1.48856e-22	1.000000
rad42	4.59928e-24	1.000000	4.59928e-24	1.000000
rad41	1.05032e-24	1.000000	1.05032e-24	1.000000
rad47	1.71661e-26	1.000000	1.71662e-26	1.000000

100.000000 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83272e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04076e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55481e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.911870	0.911870	0.911871	0.911871
Indene+H	0.0441281	0.955998	0.0441281	0.955999
Benzene+2-propynyl	0.0268483	0.982847	0.0268483	0.982848
rad11	0.00799371	0.990840	0.00799372	0.990841
rad23	0.00718845	0.998029	0.00718845	0.998030
C2H2+PhCH2	0.000916861	0.998946	0.000916862	0.998947
rad45	0.000475013	0.999421	0.000475014	0.999422
rad7	0.000306315	0.999727	0.000306316	0.999728
rad22	0.000205949	0.999933	0.000205949	0.999934
rad36	3.00752e-05	0.999963	3.00753e-05	0.999964
PhCHCCH2+H	1.52777e-05	0.999978	1.52777e-05	0.999979
rad2	9.71960e-06	0.999988	9.71962e-06	0.999989
rad3	3.33162e-06	0.999991	3.33163e-06	0.999992
rad4	1.73650e-06	0.999993	1.73650e-06	0.999994
rad9	1.23341e-06	0.999994	1.23341e-06	0.999995
rad28	1.19817e-06	0.999996	1.19817e-06	0.999997
Phenyl+Allene	1.18293e-06	0.999997	0.00000	0.999997

rad13	1.03471e-06	0.999998	1.03471e-06	0.999998
rad1	6.86227e-07	0.999999	6.86228e-07	0.999998
PhCCH+CH3	6.46500e-07	0.999999	6.46501e-07	0.999999
rad10	6.34665e-07	1.000000	6.34666e-07	1.000000
rad25	1.49586e-07	1.000000	1.49586e-07	1.000000
rad30	6.79119e-08	1.000000	6.79120e-08	1.000000
rad18	4.12658e-08	1.000000	4.12659e-08	1.000000
PhCH2CCH+H	2.56752e-08	1.000000	2.56752e-08	1.000000
PhCCCH3+H	1.89146e-08	1.000000	1.89147e-08	1.000000
rad15	1.56714e-08	1.000000	1.56714e-08	1.000000
rad26	8.79065e-09	1.000000	8.79065e-09	1.000000
Ph+MeAc	6.38350e-09	1.000000	6.38351e-09	1.000000
rad20	4.60193e-09	1.000000	4.60194e-09	1.000000
PAH9+H	3.60748e-09	1.000000	3.60749e-09	1.000000
rad21	2.85296e-09	1.000000	2.85296e-09	1.000000
rad8	1.64350e-09	1.000000	1.64350e-09	1.000000
rad35	1.62806e-09	1.000000	1.62806e-09	1.000000
rad38	1.33715e-09	1.000000	1.33716e-09	1.000000
rad33	1.23435e-09	1.000000	1.23435e-09	1.000000
rad14	4.38018e-10	1.000000	4.38018e-10	1.000000
PAH7+H	1.62087e-10	1.000000	1.62087e-10	1.000000
rad46	2.35305e-11	1.000000	2.35306e-11	1.000000
rad39	1.36929e-11	1.000000	1.36929e-11	1.000000
rad27	1.32409e-11	1.000000	1.32410e-11	1.000000
rad60syn	1.30234e-11	1.000000	1.30234e-11	1.000000
rad60anti	4.67957e-12	1.000000	4.67957e-12	1.000000
rad24	4.34375e-12	1.000000	4.34376e-12	1.000000
rad12	7.04994e-13	1.000000	7.04995e-13	1.000000
PAH3+H	1.47456e-13	1.000000	1.47456e-13	1.000000
rad5	1.01038e-13	1.000000	1.01038e-13	1.000000
rad37	7.36819e-14	1.000000	7.36820e-14	1.000000
rad59	4.36553e-14	1.000000	4.36554e-14	1.000000
rad19syn	3.33865e-15	1.000000	3.33865e-15	1.000000
rad31	3.28799e-15	1.000000	3.28800e-15	1.000000
rad50	2.14948e-15	1.000000	2.14948e-15	1.000000
rad54	1.18223e-16	1.000000	1.18223e-16	1.000000
rad43	6.31050e-18	1.000000	6.31051e-18	1.000000
PAH10+CH3	4.62324e-18	1.000000	4.62325e-18	1.000000
rad62	4.53192e-18	1.000000	4.53192e-18	1.000000
rad70	2.61327e-18	1.000000	2.61328e-18	1.000000
rad52	1.28712e-18	1.000000	1.28712e-18	1.000000
PhcycC3H3_A+H	6.88650e-19	1.000000	6.88650e-19	1.000000
rad55	1.79236e-19	1.000000	1.79236e-19	1.000000
rad51	5.77453e-20	1.000000	5.77454e-20	1.000000
rad34	6.25123e-21	1.000000	6.25124e-21	1.000000
rad58	3.49098e-21	1.000000	3.49098e-21	1.000000
PAH1+H	3.06079e-21	1.000000	3.06080e-21	1.000000
rad65	5.38567e-22	1.000000	5.38567e-22	1.000000
rad42	2.11159e-23	1.000000	2.11159e-23	1.000000
rad41	4.95606e-24	1.000000	4.95607e-24	1.000000
rad47	5.95750e-26	1.000000	5.95751e-26	1.000000

100.000000 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.21641e-16 (1.00)	1.21641e-16 (1.00)
Formation of rad11	9.54219e-17 (0.784)	9.54217e-17 (0.784)
Formation of rad6	2.24583e-17 (0.185)	2.24583e-17 (0.185)
H-abstraction	3.76121e-18 (0.0309)	3.76121e-18 (0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.909275	0.909275	0.909276	0.909276
Indene+H	0.0444245	0.953699	0.0444246	0.953700
Benzene+2-propynyl	0.0309205	0.984620	0.0309205	0.984621
rad23	0.00698437	0.991604	0.00698438	0.991605
rad11	0.00641472	0.998019	0.00641472	0.998020
C2H2+PhCH2	0.000981290	0.999000	0.000981300	0.999001
rad45	0.000458264	0.999458	0.000458265	0.999459
rad7	0.000303823	0.999762	0.000303824	0.999763
rad22	0.000165401	0.999928	0.000165401	0.999929
rad36	2.91456e-05	0.999957	2.91455e-05	0.999958
PhCHCCH2+H	1.75549e-05	0.999974	1.75550e-05	0.999975
rad2	1.19936e-05	0.999986	1.19936e-05	0.999987
rad3	3.49384e-06	0.999990	3.49384e-06	0.999991
rad4	1.82711e-06	0.999992	1.82711e-06	0.999993
Phenyl+Allene	1.53012e-06	0.999993	0.000000	0.999993
rad28	1.51542e-06	0.999995	1.51543e-06	0.999994
rad9	1.43798e-06	0.999996	1.43799e-06	0.999996

rad13	1.02359e-06	0.999997	1.02360e-06	0.999997
PhCCH+CH3	9.25896e-07	0.999998	9.25897e-07	0.999998
rad1	8.56596e-07	0.999999	8.56597e-07	0.999998
rad10	8.22160e-07	1.000000	8.22161e-07	0.999999
rad25	1.22001e-07	1.000000	1.22001e-07	0.999999
rad30	7.47003e-08	1.000000	7.47004e-08	0.999999
PhCH2CCH+H	3.88358e-08	1.000000	3.88358e-08	1.000000
PhCCCH3+H	3.25182e-08	1.000000	3.25183e-08	1.000000
rad18	3.15971e-08	1.000000	3.15972e-08	1.000000
rad15	1.75616e-08	1.000000	1.75616e-08	1.000000
rad26	1.45905e-08	1.000000	1.45906e-08	1.000000
Ph+MeAc	1.14844e-08	1.000000	1.14844e-08	1.000000
PAH9+H	4.53382e-09	1.000000	4.53382e-09	1.000000
rad20	3.55797e-09	1.000000	3.55797e-09	1.000000
rad8	2.26831e-09	1.000000	2.26831e-09	1.000000
rad21	2.20670e-09	1.000000	2.20671e-09	1.000000
rad35	2.01408e-09	1.000000	2.01408e-09	1.000000
rad38	1.65818e-09	1.000000	1.65818e-09	1.000000
rad33	1.22593e-09	1.000000	1.22593e-09	1.000000
rad14	4.65985e-10	1.000000	4.65986e-10	1.000000
PAH7+H	2.70537e-10	1.000000	2.70538e-10	1.000000
rad46	3.13994e-11	1.000000	3.13994e-11	1.000000
rad39	2.72243e-11	1.000000	2.72243e-11	1.000000
rad60syn	1.68254e-11	1.000000	1.68254e-11	1.000000
rad27	1.62801e-11	1.000000	1.62801e-11	1.000000
rad60anti	6.17383e-12	1.000000	6.17384e-12	1.000000
rad24	4.22608e-12	1.000000	4.22608e-12	1.000000
rad12	1.65546e-12	1.000000	1.65546e-12	1.000000
PAH3+H	2.52255e-13	1.000000	2.52256e-13	1.000000
rad5	2.22591e-13	1.000000	2.22591e-13	1.000000
rad37	1.86292e-13	1.000000	1.86292e-13	1.000000
rad59	7.28642e-14	1.000000	7.28643e-14	1.000000
rad19syn	8.35509e-15	1.000000	8.35510e-15	1.000000
rad50	4.06146e-15	1.000000	4.06147e-15	1.000000
rad31	3.88834e-15	1.000000	3.88834e-15	1.000000
rad54	3.29356e-16	1.000000	3.29356e-16	1.000000
rad43	1.89727e-17	1.000000	1.89728e-17	1.000000
PAH10+CH3	1.57439e-17	1.000000	1.57439e-17	1.000000
rad62	1.35407e-17	1.000000	1.35407e-17	1.000000
rad70	8.37340e-18	1.000000	8.37341e-18	1.000000
rad52	3.12754e-18	1.000000	3.12755e-18	1.000000
PhcycC3H3_A+H	2.37777e-18	1.000000	2.37777e-18	1.000000
rad55	6.06225e-19	1.000000	6.06226e-19	1.000000
rad51	1.72558e-19	1.000000	1.72558e-19	1.000000
rad34	2.35278e-20	1.000000	2.35279e-20	1.000000
PAH1+H	1.19817e-20	1.000000	1.19817e-20	1.000000
rad58	1.18162e-20	1.000000	1.18162e-20	1.000000
rad65	1.76429e-21	1.000000	1.76429e-21	1.000000
rad42	8.46735e-23	1.000000	8.46736e-23	1.000000
rad41	2.04140e-23	1.000000	2.04140e-23	1.000000
rad47	1.85320e-25	1.000000	1.85321e-25	1.000000

100.000000 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.63720e-16 (1.00)	1.63720e-16 (1.00)
Formation of rad11	1.26419e-16 (0.772)	1.26418e-16 (0.772)
Formation of rad6	3.15515e-17 (0.193)	3.15514e-17 (0.193)
H-abstraction	5.75028e-18 (0.0351)	5.75028e-18 (0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.906228	0.906228	0.906230	0.906230
Indene+H	0.0447333	0.950962	0.0447334	0.950964
Benzene+2-propynyl	0.0351226	0.986084	0.0351226	0.986086
rad23	0.00676403	0.992848	0.00676404	0.992850
rad11	0.00514644	0.997995	0.00514645	0.997997
C2H2+PhCH2	0.00105133	0.999046	0.00105133	0.999048
rad45	0.000441008	0.999487	0.000441009	0.999489
rad7	0.000301200	0.999788	0.000301201	0.999790
rad22	0.000132941	0.999921	0.000132941	0.999923
rad36	2.81904e-05	0.999949	2.81904e-05	0.999951
PhCHCCH2+H	2.01834e-05	0.999969	2.01835e-05	0.999972
rad2	1.47115e-05	0.999984	1.47116e-05	0.999986
rad3	3.64818e-06	0.999988	3.64819e-06	0.999990
Phenyl+Allene	1.96774e-06	0.999990	0.000000	0.999990
rad28	1.91775e-06	0.999992	1.91776e-06	0.999992
rad4	1.91469e-06	0.999994	1.91469e-06	0.999994
rad9	1.67538e-06	0.999995	1.67539e-06	0.999995

PhCCH+CH3	1.31994e-06	0.999997	1.31995e-06	0.999997
rad1	1.06384e-06	0.999998	1.06384e-06	0.999998
rad10	1.05258e-06	0.999999	1.05258e-06	0.999999
rad13	1.01263e-06	1.000000	1.01263e-06	1.000000
rad25	9.93843e-08	1.000000	9.93843e-08	1.000000
rad30	8.22686e-08	1.000000	8.22688e-08	1.000000
PhCH2CCH+H	5.77007e-08	1.000000	5.77008e-08	1.000000
PhCCCH3+H	5.51390e-08	1.000000	5.51392e-08	1.000000
rad18	2.42532e-08	1.000000	2.42533e-08	1.000000
rad26	2.37814e-08	1.000000	2.37815e-08	1.000000
Ph+MeAc	2.03703e-08	1.000000	2.03704e-08	1.000000
rad15	1.97036e-08	1.000000	1.97036e-08	1.000000
PAH9+H	5.68978e-09	1.000000	5.68979e-09	1.000000
rad8	3.15763e-09	1.000000	3.15763e-09	1.000000
rad20	2.76102e-09	1.000000	2.76102e-09	1.000000
rad35	2.48788e-09	1.000000	2.48789e-09	1.000000
rad38	2.05796e-09	1.000000	2.05797e-09	1.000000
rad21	1.71326e-09	1.000000	1.71326e-09	1.000000
rad33	1.21790e-09	1.000000	1.21790e-09	1.000000
rad14	4.92471e-10	1.000000	4.92471e-10	1.000000
PAH7+H	4.52091e-10	1.000000	4.52092e-10	1.000000
rad39	5.34399e-11	1.000000	5.34400e-11	1.000000
rad46	4.18744e-11	1.000000	4.18745e-11	1.000000
rad60syn	2.16666e-11	1.000000	2.16666e-11	1.000000
rad27	1.98999e-11	1.000000	1.99000e-11	1.000000
rad60anti	8.10621e-12	1.000000	8.10622e-12	1.000000
rad24	4.10467e-12	1.000000	4.10468e-12	1.000000
rad12	3.74226e-12	1.000000	3.74227e-12	1.000000
rad5	4.73187e-13	1.000000	4.73187e-13	1.000000
rad37	4.49813e-13	1.000000	4.49814e-13	1.000000
PAH3+H	4.20831e-13	1.000000	4.20831e-13	1.000000
rad59	1.18734e-13	1.000000	1.18734e-13	1.000000
rad19syn	1.98208e-14	1.000000	1.98209e-14	1.000000
rad50	7.47817e-15	1.000000	7.47818e-15	1.000000
rad31	4.62361e-15	1.000000	4.62362e-15	1.000000
rad54	8.58550e-16	1.000000	8.58552e-16	1.000000
rad43	5.29190e-17	1.000000	5.29192e-17	1.000000
PAH10+CH3	4.91118e-17	1.000000	4.91119e-17	1.000000
rad62	3.74744e-17	1.000000	3.74745e-17	1.000000
rad70	2.44724e-17	1.000000	2.44724e-17	1.000000
PhcycC3H3_A+H	7.44272e-18	1.000000	7.44274e-18	1.000000
rad52	7.21194e-18	1.000000	7.21196e-18	1.000000
rad55	1.86411e-18	1.000000	1.86411e-18	1.000000
rad51	4.77558e-19	1.000000	4.77559e-19	1.000000
rad34	7.90405e-20	1.000000	7.90407e-20	1.000000
PAH1+H	4.18424e-20	1.000000	4.18425e-20	1.000000
rad58	3.62682e-20	1.000000	3.62683e-20	1.000000
rad65	5.28150e-21	1.000000	5.28151e-21	1.000000
rad42	3.01031e-22	1.000000	3.01032e-22	1.000000
rad41	7.45189e-23	1.000000	7.45191e-23	1.000000
rad47	5.23475e-25	1.000000	5.23476e-25	1.000000

100.000000 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.15887e-16 (1.00)	2.15886e-16 (1.00)
Formation of rad11	1.64133e-16 (0.760)	1.64132e-16 (0.760)
Formation of rad6	4.32452e-17 (0.200)	4.32450e-17 (0.200)
H-abstraction	8.50919e-18 (0.0394)	8.50919e-18 (0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.902823	0.902823	0.902826	0.902826
Indene+H	0.0450601	0.947883	0.0450602	0.947886
Benzene+2-propynyl	0.0394150	0.987298	0.0394151	0.987301
rad23	0.00652892	0.993827	0.00652894	0.993830
rad11	0.00412935	0.997956	0.00412936	0.997959
C2H2+PhCH2	0.00112752	0.999084	0.00112752	0.999087
rad45	0.000423314	0.999507	0.000423315	0.999510
rad7	0.000298490	0.999806	0.000298491	0.999809
rad22	0.000106998	0.999913	0.000106998	0.999916
rad36	2.72127e-05	0.999940	2.72128e-05	0.999943
PhCHCCH2+H	2.32196e-05	0.999963	2.32197e-05	0.999966
rad2	1.79392e-05	0.999981	1.79392e-05	0.999984
rad3	3.79540e-06	0.999985	3.79541e-06	0.999988
Phenyl+Allene	2.51670e-06	0.999987	0.000000	0.999988
rad28	2.42762e-06	0.999990	2.42762e-06	0.999990
rad4	1.99970e-06	0.999992	1.99970e-06	0.999992
rad9	1.95056e-06	0.999994	1.95056e-06	0.999994

PhCCH+CH3	1.87344e-06	0.999996	1.87345e-06	0.999996
rad10	1.33253e-06	0.999997	1.33253e-06	0.999998
rad1	1.31468e-06	0.999998	1.31468e-06	0.999999
rad13	1.00188e-06	0.999999	1.00188e-06	1.000000
PhCCCH3+H	9.21315e-08	0.999999	9.21318e-08	1.000000
rad30	9.07107e-08	1.000000	9.07109e-08	1.000000
PhCH2CCH+H	8.43571e-08	1.000000	8.43574e-08	1.000000
rad25	8.08861e-08	1.000000	8.08863e-08	1.000000
rad26	3.80574e-08	1.000000	3.80575e-08	1.000000
Ph+MeAc	3.55785e-08	1.000000	3.55786e-08	1.000000
rad15	2.21313e-08	1.000000	2.21314e-08	1.000000
rad18	1.86656e-08	1.000000	1.86656e-08	1.000000
PAH9+H	7.12748e-09	1.000000	7.12750e-09	1.000000
rad8	4.43412e-09	1.000000	4.43413e-09	1.000000
rad35	3.06756e-09	1.000000	3.06757e-09	1.000000
rad38	2.55471e-09	1.000000	2.55472e-09	1.000000
rad20	2.15095e-09	1.000000	2.15096e-09	1.000000
rad21	1.33542e-09	1.000000	1.33542e-09	1.000000
rad33	1.21032e-09	1.000000	1.21032e-09	1.000000
PAH7+H	7.57373e-10	1.000000	7.57375e-10	1.000000
rad14	5.17501e-10	1.000000	5.17503e-10	1.000000
rad39	1.03318e-10	1.000000	1.03318e-10	1.000000
rad46	5.57665e-11	1.000000	5.57667e-11	1.000000
rad60syn	2.78088e-11	1.000000	2.78089e-11	1.000000
rad27	2.41852e-11	1.000000	2.41852e-11	1.000000
rad60anti	1.05940e-11	1.000000	1.05941e-11	1.000000
rad12	8.14220e-12	1.000000	8.14222e-12	1.000000
rad24	3.97984e-12	1.000000	3.97985e-12	1.000000
rad37	1.03776e-12	1.000000	1.03777e-12	1.000000
rad5	9.71353e-13	1.000000	9.71353e-13	1.000000
PAH3+H	6.86433e-13	1.000000	6.86435e-13	1.000000
rad59	1.89378e-13	1.000000	1.89378e-13	1.000000
rad19syn	4.47367e-14	1.000000	4.47369e-14	1.000000
rad50	1.34388e-14	1.000000	1.34388e-14	1.000000
rad31	5.53522e-15	1.000000	5.53524e-15	1.000000
rad54	2.10387e-15	1.000000	2.10388e-15	1.000000
PAH10+CH3	1.41236e-16	1.000000	1.41236e-16	1.000000
rad43	1.37684e-16	1.000000	1.37684e-16	1.000000
rad62	9.66377e-17	1.000000	9.66377e-17	1.000000
rad70	6.58208e-17	1.000000	6.58210e-17	1.000000
PhcycC3H3_A+H	2.13070e-17	1.000000	2.13071e-17	1.000000
rad52	1.58484e-17	1.000000	1.58485e-17	1.000000
rad55	5.25551e-18	1.000000	5.25552e-18	1.000000
rad51	1.23159e-18	1.000000	1.23159e-18	1.000000
rad34	2.39823e-19	1.000000	2.39822e-19	1.000000
PAH1+H	1.31858e-19	1.000000	1.31858e-19	1.000000
rad58	1.01889e-19	1.000000	1.01890e-19	1.000000
rad65	1.45627e-20	1.000000	1.45627e-20	1.000000
rad42	9.61171e-22	1.000000	9.61180e-22	1.000000
rad41	2.44234e-22	1.000000	2.44234e-22	1.000000
rad47	1.35768e-24	1.000000	1.35769e-24	1.000000

100.000000 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.79491e-16 (1.00)	2.79490e-16 (1.00)
Formation of rad11	2.09281e-16 (0.749)	2.09280e-16 (0.749)
Formation of rad6	5.79792e-17 (0.207)	5.79790e-17 (0.207)
H-abstraction	1.22310e-17 (0.0438)	1.22310e-17 (0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.899139	0.899139	0.899141	0.899141
Indene+H	0.0454098	0.944548	0.0454099	0.944551
Benzene+2-propynyl	0.0437616	0.988310	0.0437617	0.988313
rad23	0.00628061	0.994591	0.00628063	0.994594
rad11	0.00331490	0.997905	0.00331491	0.997908
C2H2+PhCH2	0.00121044	0.999116	0.00121044	0.999119
rad45	0.000405260	0.999521	0.000405261	0.999524
rad7	0.000295729	0.999817	0.000295731	0.999820
rad22	8.62878e-05	0.999903	8.62881e-05	0.999906
PhCHCCH2+H	2.67303e-05	0.999930	2.67304e-05	0.999933
rad36	2.62158e-05	0.999956	2.62158e-05	0.999959
rad2	2.17459e-05	0.999978	2.17459e-05	0.999981
rad3	3.93657e-06	0.999982	3.93658e-06	0.999985
Phenyl+Allene	3.20227e-06	0.999985	0.000000	0.999985
rad28	3.07283e-06	0.999988	3.07284e-06	0.999988
PhCCH+CH3	2.64739e-06	0.999991	2.64740e-06	0.999991
rad9	2.26913e-06	0.999993	2.26913e-06	0.999993

rad4	2.08275e-06	0.999995	2.08276e-06	0.999995
rad10	1.66884e-06	0.999997	1.66885e-06	0.999997
rad1	1.61663e-06	0.999998	1.61664e-06	0.999998
rad13	9.91390e-07	0.999999	9.91390e-07	0.999999
PhCCCH3+H	1.51563e-07	0.999999	1.51564e-07	0.999999
PhCH2CCH+H	1.21532e-07	1.000000	1.21532e-07	0.999999
rad30	1.00131e-07	1.000000	1.00131e-07	1.000000
rad25	6.57882e-08	1.000000	6.57884e-08	1.000000
Ph+MeAc	6.11128e-08	1.000000	6.11130e-08	1.000000
rad26	5.97816e-08	1.000000	5.97818e-08	1.000000
rad15	2.48831e-08	1.000000	2.48831e-08	1.000000
rad18	1.44074e-08	1.000000	1.44075e-08	1.000000
PAH9+H	8.90900e-09	1.000000	8.90902e-09	1.000000
rad8	6.27686e-09	1.000000	6.27689e-09	1.000000
rad35	3.77422e-09	1.000000	3.77422e-09	1.000000
rad38	3.17034e-09	1.000000	3.17035e-09	1.000000
rad20	1.68272e-09	1.000000	1.68273e-09	1.000000
PAH7+H	1.27121e-09	1.000000	1.27122e-09	1.000000
rad33	1.20327e-09	1.000000	1.20327e-09	1.000000
rad21	1.04535e-09	1.000000	1.04535e-09	1.000000
rad14	5.41174e-10	1.000000	5.41175e-10	1.000000
rad39	1.96235e-10	1.000000	1.96236e-10	1.000000
rad46	7.41114e-11	1.000000	7.41116e-11	1.000000
rad60syn	3.55743e-11	1.000000	3.55744e-11	1.000000
rad27	2.92250e-11	1.000000	2.92251e-11	1.000000
rad12	1.70512e-11	1.000000	1.70513e-11	1.000000
rad60anti	1.37829e-11	1.000000	1.37830e-11	1.000000
rad24	3.85195e-12	1.000000	3.85197e-12	1.000000
rad37	2.28932e-12	1.000000	2.28933e-12	1.000000
rad5	1.92664e-12	1.000000	1.92665e-12	1.000000
PAH3+H	1.09702e-12	1.000000	1.09702e-12	1.000000
rad59	2.96257e-13	1.000000	2.96258e-13	1.000000
rad19syn	9.63372e-14	1.000000	9.63372e-14	1.000000
rad50	2.35974e-14	1.000000	2.35974e-14	1.000000
rad31	6.67987e-15	1.000000	6.67989e-15	1.000000
rad54	4.86534e-15	1.000000	4.86536e-15	1.000000
PAH10+CH3	3.76700e-16	1.000000	3.76701e-16	1.000000
rad43	3.35782e-16	1.000000	3.35783e-16	1.000000
rad62	2.33407e-16	1.000000	2.33408e-16	1.000000
rad70	1.64158e-16	1.000000	1.64158e-16	1.000000
PhcycC3H3_A+H	5.62270e-17	1.000000	5.62272e-17	1.000000
rad52	3.32978e-17	1.000000	3.32978e-17	1.000000
rad55	1.36869e-17	1.000000	1.36869e-17	1.000000
rad51	2.97537e-18	1.000000	2.97538e-18	1.000000
rad34	6.63940e-19	1.000000	6.63943e-19	1.000000
PAH1+H	3.78735e-19	1.000000	3.78736e-19	1.000000
rad58	2.64114e-19	1.000000	2.64115e-19	1.000000
rad65	3.72408e-20	1.000000	3.72409e-20	1.000000
rad42	2.78713e-21	1.000000	2.78714e-21	1.000000
rad41	7.26843e-22	1.000000	7.26844e-22	1.000000
rad47	3.26401e-24	1.000000	3.26401e-24	1.000000

100.000000 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.55893e-16 (1.00)	3.55892e-16 (1.00)
Formation of rad11	2.62555e-16 (0.738)	2.62554e-16 (0.738)
Formation of rad6	7.62093e-17 (0.214)	7.62090e-17 (0.214)
H-abstraction	1.71289e-17 (0.0481)	1.71289e-17 (0.0481)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.895241	0.895241	0.895245	0.895245
Benzene+2-propynyl	0.0481294	0.943370	0.0481296	0.943374
Indene+H	0.0457861	0.989156	0.0457863	0.989160
rad23	0.00602078	0.995177	0.00602080	0.995181
rad11	0.00266354	0.997841	0.00266355	0.997845
C2H2+PhCH2	0.00130076	0.999142	0.00130077	0.999146
rad45	0.000386931	0.999528	0.000386932	0.999532
rad7	0.000292948	0.999821	0.000292949	0.999825
rad22	6.97675e-05	0.999891	6.97678e-05	0.999895
PhCHCCH2+H	3.07949e-05	0.999922	3.07950e-05	0.999926
rad2	2.62015e-05	0.999948	2.62016e-05	0.999952
rad36	2.52031e-05	0.999973	2.52031e-05	0.999977
rad3	4.07308e-06	0.999977	4.07309e-06	0.999982
Phenyl+Allene	4.05485e-06	0.999982	0.00000	0.999982
rad28	3.88753e-06	0.999985	3.88754e-06	0.999985
PhCCH+CH3	3.72401e-06	0.999989	3.72402e-06	0.999989
rad9	2.63750e-06	0.999992	2.63751e-06	0.999992

rad4	2.16466e-06	0.999994	2.16467e-06	0.999994
rad10	2.06834e-06	0.999996	2.06835e-06	0.999996
rad1	1.97794e-06	0.999998	1.97795e-06	0.999998
rad13	9.81198e-07	0.999999	9.81198e-07	0.999999
PhCCCH3+H	2.45271e-07	0.999999	2.45272e-07	0.999999
PhCH2CCH+H	1.72749e-07	0.999999	1.72749e-07	0.999999
rad30	1.10643e-07	1.000000	1.10644e-07	0.999999
Ph+MeAc	1.03113e-07	1.000000	1.03114e-07	1.000000
rad26	9.21550e-08	1.000000	9.21553e-08	1.000000
rad25	5.34894e-08	1.000000	5.34896e-08	1.000000
rad15	2.80019e-08	1.000000	2.80021e-08	1.000000
rad18	1.11570e-08	1.000000	1.11571e-08	1.000000
PAH9+H	1.11078e-08	1.000000	1.11078e-08	1.000000
rad8	8.94320e-09	1.000000	8.94323e-09	1.000000
rad35	4.63235e-09	1.000000	4.63236e-09	1.000000
rad38	3.93093e-09	1.000000	3.93095e-09	1.000000
PAH7+H	2.13285e-09	1.000000	2.13286e-09	1.000000
rad20	1.32242e-09	1.000000	1.32243e-09	1.000000
rad33	1.19683e-09	1.000000	1.19682e-09	1.000000
rad21	8.22066e-10	1.000000	8.22070e-10	1.000000
rad14	5.63644e-10	1.000000	5.63647e-10	1.000000
rad39	3.65246e-10	1.000000	3.65247e-10	1.000000
rad46	9.82197e-11	1.000000	9.82207e-11	1.000000
rad60syn	4.53562e-11	1.000000	4.53563e-11	1.000000
rad27	3.51099e-11	1.000000	3.51100e-11	1.000000
rad12	3.43792e-11	1.000000	3.43794e-11	1.000000
rad60anti	1.78525e-11	1.000000	1.78526e-11	1.000000
rad37	4.83369e-12	1.000000	4.83371e-12	1.000000
rad24	3.72147e-12	1.000000	3.72149e-12	1.000000
rad5	3.69440e-12	1.000000	3.69441e-12	1.000000
PAH3+H	1.72043e-12	1.000000	1.72044e-12	1.000000
rad59	4.55280e-13	1.000000	4.55282e-13	1.000000
rad19syn	1.98370e-13	1.000000	1.98371e-13	1.000000
rad50	4.05162e-14	1.000000	4.05164e-14	1.000000
rad54	1.06541e-14	1.000000	1.06542e-14	1.000000
rad31	8.13576e-15	1.000000	8.13580e-15	1.000000
PAH10+CH3	9.37093e-16	1.000000	9.37096e-16	1.000000
rad43	7.71034e-16	1.000000	7.71038e-16	1.000000
rad62	5.30444e-16	1.000000	5.30447e-16	1.000000
rad70	3.82146e-16	1.000000	3.82147e-16	1.000000
PhcycC3H3_A+H	1.37730e-16	1.000000	1.37730e-16	1.000000
rad52	6.70564e-17	1.000000	6.70567e-17	1.000000
rad55	3.31465e-17	1.000000	3.31466e-17	1.000000
rad51	6.76495e-18	1.000000	6.76498e-18	1.000000
rad34	1.69209e-18	1.000000	1.69209e-18	1.000000
PAH1+H	1.00031e-18	1.000000	1.00032e-18	1.000000
rad58	6.36179e-19	1.000000	6.36182e-19	1.000000
rad65	8.88690e-20	1.000000	8.88694e-20	1.000000
rad42	7.41106e-21	1.000000	7.41108e-21	1.000000
rad41	1.98345e-21	1.000000	1.98346e-21	1.000000
rad47	7.33318e-24	1.000000	7.33321e-24	1.000000

100.000000 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.34395e-16 (1.00)	6.34392e-16 (1.00)
Formation of rad11	4.51153e-16 (0.711)	4.51151e-16 (0.711)
Formation of rad6	1.51589e-16 (0.239)	1.51588e-16 (0.239)
H-abstraction	3.16530e-17 (0.0499)	3.16530e-17 (0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.895372	0.895372	0.895376	0.895376
Benzene+2-propynyl	0.0498949	0.945267	0.0498951	0.945271
Indene+H	0.0464542	0.991721	0.0464543	0.991725
rad23	0.00427199	0.995993	0.00427201	0.995997
C2H2+PhCH2	0.00184420	0.997838	0.00184421	0.997842
rad11	0.00135749	0.999195	0.00135750	0.999199
rad45	0.000308952	0.999504	0.000308954	0.999508
rad7	0.000286305	0.999790	0.000286306	0.999794
rad2	5.42402e-05	0.999845	5.42404e-05	0.999849
rad22	4.55205e-05	0.999890	4.55207e-05	0.999894
PhCHCCH2+H	4.32932e-05	0.999933	4.32933e-05	0.999937
PhCCH+CH3	1.76675e-05	0.999951	1.76676e-05	0.999955
rad28	1.10294e-05	0.999962	1.10294e-05	0.999966
rad36	1.05301e-05	0.999973	1.05302e-05	0.999977
rad3	4.72699e-06	0.999977	4.72701e-06	0.999981
rad10	4.40037e-06	0.999982	4.40039e-06	0.999986
Phenyl+Allene	4.27157e-06	0.999986	0.00000	0.999986

rad1	4.08736e-06	0.999990	4.08738e-06	0.999990
rad4	2.35086e-06	0.999993	2.35087e-06	0.999992
rad9	2.29558e-06	0.999995	2.29559e-06	0.999995
PhCCCH3+H	2.28089e-06	0.999997	2.28090e-06	0.999997
Ph+MeAc	1.10037e-06	0.999998	1.10038e-06	0.999998
rad13	9.77022e-07	0.999999	9.77021e-07	0.999999
rad26	5.74245e-07	1.000000	5.74247e-07	1.000000
PhCH2CCH+H	3.79966e-07	1.000000	3.79968e-07	1.000000
rad30	1.29490e-07	1.000000	1.29491e-07	1.000000
rad25	3.27155e-08	1.000000	3.27156e-08	1.000000
PAH7+H	2.99881e-08	1.000000	2.99883e-08	1.000000
PAH9+H	2.92373e-08	1.000000	2.92375e-08	1.000000
rad35	1.01452e-08	1.000000	1.01453e-08	1.000000
rad18	8.94600e-09	1.000000	8.94605e-09	1.000000
rad38	8.51972e-09	1.000000	8.51975e-09	1.000000
rad19anti	8.29783e-09	1.000000	8.29786e-09	1.000000
rad39	6.68247e-09	1.000000	6.68250e-09	1.000000
rad15	2.30388e-09	1.000000	2.30389e-09	1.000000
rad20	1.60358e-09	1.000000	1.60359e-09	1.000000
rad33	1.50096e-09	1.000000	1.50096e-09	1.000000
rad21	1.06295e-09	1.000000	1.06295e-09	1.000000
rad14	6.47109e-10	1.000000	6.47112e-10	1.000000
rad46	2.73784e-10	1.000000	2.73785e-10	1.000000
rad37	1.98581e-10	1.000000	1.98581e-10	1.000000
rad27	7.75466e-11	1.000000	7.75470e-11	1.000000
rad60syn	7.04533e-11	1.000000	7.04536e-11	1.000000
rad60anti	2.90539e-11	1.000000	2.90541e-11	1.000000
PAH3+H	5.14213e-12	1.000000	5.14215e-12	1.000000
rad19syn	3.88599e-12	1.000000	3.88601e-12	1.000000
rad24	3.63630e-12	1.000000	3.63632e-12	1.000000
rad5	1.66259e-12	1.000000	1.66260e-12	1.000000
rad59	1.08322e-12	1.000000	1.08323e-12	1.000000
rad54	3.41451e-13	1.000000	3.41453e-13	1.000000
rad50	2.70019e-13	1.000000	2.70020e-13	1.000000
PAH10+CH3	1.75008e-13	1.000000	1.75009e-13	1.000000
rad43	4.05839e-14	1.000000	4.05841e-14	1.000000
rad67	3.63365e-14	1.000000	3.63367e-14	1.000000
rad31	3.41961e-14	1.000000	3.41963e-14	1.000000
rad12	2.44324e-14	1.000000	2.44326e-14	1.000000
rad62	2.12295e-14	1.000000	2.12296e-14	1.000000
PhcycC3H3_A+H	1.83214e-14	1.000000	1.83215e-14	1.000000
rad70	6.93907e-15	1.000000	6.93910e-15	1.000000
rad55	2.72779e-15	1.000000	2.72781e-15	1.000000
PAH1+H	1.36425e-15	1.000000	1.36426e-15	1.000000
rad52	9.74713e-16	1.000000	9.74722e-16	1.000000
rad51	2.14097e-16	1.000000	2.14098e-16	1.000000
rad34	1.31423e-16	1.000000	1.31423e-16	1.000000
rad58	1.45305e-17	1.000000	1.45306e-17	1.000000
rad42	5.96097e-18	1.000000	5.96100e-18	1.000000
rad65	4.45008e-18	1.000000	4.45010e-18	1.000000
rad41	2.64059e-18	1.000000	2.64060e-18	1.000000
rad53	5.80446e-19	1.000000	5.80449e-19	1.000000
rad64	1.96813e-19	1.000000	1.96814e-19	1.000000
rad56	7.83065e-21	1.000000	7.83069e-21	1.000000
rad68syn	8.04287e-22	1.000000	8.04290e-22	1.000000
rad61	7.26472e-22	1.000000	7.26475e-22	1.000000
rad68anti	5.82035e-22	1.000000	5.82038e-22	1.000000
rad47	8.58832e-23	1.000000	8.58836e-23	1.000000
rad40syn	4.20422e-24	1.000000	4.20424e-24	1.000000
PAH8+H	1.68970e-24	1.000000	1.68970e-24	1.000000
rad73	1.35399e-24	1.000000	1.35399e-24	1.000000
rad40anti	1.15176e-24	1.000000	1.15176e-24	1.000000
rad71	4.17398e-26	1.000000	4.17400e-26	1.000000
rad72	4.75645e-32	1.000000	4.75647e-32	1.000000
rad8	9.13471e-37	1.000000	9.13475e-37	1.000000

100.000000 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.11288e-15 (1.00)	5.11265e-15 (1.00)
Formation of rad11	3.08094e-15 (0.603)	3.08078e-15 (0.603)
Formation of rad6	1.54092e-15 (0.301)	1.54084e-15 (0.301)
H-abstraction	4.91025e-16 (0.0960)	4.91025e-16 (0.0960)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.845455	0.845455	0.845494	0.845494
Benzene+2-propynyl	0.0960368	0.941492	0.0960412	0.941536
Indene+H	0.0511110	0.992603	0.0511134	0.992649

C2H2+PhCH2	0.00383308	0.996436	0.00383326	0.996482
rad23	0.00198124	0.998417	0.00198133	0.998464
PhCCH+CH3	0.000261771	0.998679	0.000261783	0.998725
rad7	0.000261583	0.998941	0.000261595	0.998987
rad11	0.000259283	0.999200	0.000259294	0.999246
PhCHCCH2+H	0.000216439	0.999416	0.000216448	0.999463
rad45	0.000168143	0.999584	0.000168151	0.999631
rad2	0.000148316	0.999733	0.000148323	0.999779
rad28	7.38918e-05	0.999807	7.38952e-05	0.999853
Phenyl+Allene	4.63564e-05	0.999853	0.00000	0.999853
PhCCCH3+H	4.50676e-05	0.999898	4.50698e-05	0.999898
Ph+MeAc	2.96912e-05	0.999928	2.96926e-05	0.999928
rad1	1.38032e-05	0.999942	1.38039e-05	0.999942
rad10	1.26962e-05	0.999954	1.26967e-05	0.999954
rad22	8.31643e-06	0.999963	8.31682e-06	0.999963
PhCH2CCH+H	7.27279e-06	0.999970	7.27313e-06	0.999970
rad36	6.44216e-06	0.999976	6.44246e-06	0.999976
rad3	6.35238e-06	0.999983	6.35267e-06	0.999983
rad26	5.55885e-06	0.999988	5.55911e-06	0.999988
rad9	4.26723e-06	0.999992	4.26743e-06	0.999992
rad4	3.34552e-06	0.999996	3.34568e-06	0.999996
PAH7+H	1.97439e-06	0.999998	1.97448e-06	0.999998
rad13	9.48845e-07	0.999999	9.48895e-07	0.999999
rad39	4.73764e-07	0.999999	4.73786e-07	0.999999
rad30	3.62293e-07	1.000000	3.62310e-07	1.000000
PAH9+H	1.80708e-07	1.000000	1.80717e-07	1.000000
rad19anti	1.20242e-07	1.000000	1.20248e-07	1.000000
rad38	5.65265e-08	1.000000	5.65292e-08	1.000000
rad35	5.46933e-08	1.000000	5.46958e-08	1.000000
rad37	1.19357e-08	1.000000	1.19363e-08	1.000000
rad25	6.25597e-09	1.000000	6.25626e-09	1.000000
rad15	4.19825e-09	1.000000	4.19844e-09	1.000000
rad46	3.20623e-09	1.000000	3.20639e-09	1.000000
rad33	1.65911e-09	1.000000	1.65919e-09	1.000000
rad18	1.58647e-09	1.000000	1.58655e-09	1.000000
rad14	8.65927e-10	1.000000	8.65967e-10	1.000000
rad60syn	6.64625e-10	1.000000	6.64656e-10	1.000000
rad19syn	5.41638e-10	1.000000	5.41664e-10	1.000000
rad20	4.01585e-10	1.000000	4.01604e-10	1.000000
rad60anti	3.09738e-10	1.000000	3.09751e-10	1.000000
rad21	2.75644e-10	1.000000	2.75657e-10	1.000000
rad27	2.22276e-10	1.000000	2.22286e-10	1.000000
PAH3+H	2.05564e-10	1.000000	2.05574e-10	1.000000
rad54	6.87481e-11	1.000000	6.87513e-11	1.000000
rad59	3.86031e-11	1.000000	3.86049e-11	1.000000
PAH10+CH3	3.20764e-11	1.000000	3.20780e-11	1.000000
rad50	2.16920e-11	1.000000	2.16930e-11	1.000000
rad5	1.05120e-11	1.000000	1.05125e-11	1.000000
PhcycC3H3_A+H	7.13024e-12	1.000000	7.13058e-12	1.000000
rad43	5.24215e-12	1.000000	5.24239e-12	1.000000
rad67	3.87350e-12	1.000000	3.87368e-12	1.000000
rad62	3.75253e-12	1.000000	3.75270e-12	1.000000
rad24	2.73286e-12	1.000000	2.73299e-12	1.000000
rad70	2.48745e-12	1.000000	2.48757e-12	1.000000
rad55	9.48294e-13	1.000000	9.48343e-13	1.000000
rad31	7.73902e-13	1.000000	7.73938e-13	1.000000
PAH1+H	7.66193e-13	1.000000	7.66229e-13	1.000000
rad52	2.43733e-13	1.000000	2.43743e-13	1.000000
rad51	1.39049e-13	1.000000	1.39055e-13	1.000000
rad34	8.02302e-14	1.000000	8.02339e-14	1.000000
rad12	7.36693e-14	1.000000	7.36727e-14	1.000000
rad58	6.63641e-15	1.000000	6.63671e-15	1.000000
rad65	3.76797e-15	1.000000	3.76815e-15	1.000000
rad42	3.49994e-15	1.000000	3.50010e-15	1.000000
rad41	1.62215e-15	1.000000	1.62224e-15	1.000000
rad53	7.47644e-16	1.000000	7.47678e-16	1.000000
rad64	2.80980e-16	1.000000	2.80993e-16	1.000000
rad56	2.19996e-17	1.000000	2.20005e-17	1.000000
rad68syn	2.49375e-18	1.000000	2.49387e-18	1.000000
rad61	2.37461e-18	1.000000	2.37472e-18	1.000000
rad68anti	1.78234e-18	1.000000	1.78242e-18	1.000000
rad73	1.19571e-18	1.000000	1.19577e-18	1.000000
rad71	2.89684e-19	1.000000	2.89698e-19	1.000000
PAH8+H	6.48833e-20	1.000000	6.48863e-20	1.000000
rad40syn	4.45519e-20	1.000000	4.45540e-20	1.000000
rad47	2.88546e-20	1.000000	2.88559e-20	1.000000
rad40anti	1.86404e-20	1.000000	1.86413e-20	1.000000
rad72	1.55816e-22	1.000000	1.55824e-22	1.000000
rad8	1.44969e-33	1.000000	1.44976e-33	1.000000

100.000000 Pa, 500.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.11551e-14	(1.00)	2.11448e-14	(1.00)
Formation of rad11	1.10850e-14	(0.524)	1.10787e-14	(0.524)
Formation of rad6	7.08033e-15	(0.335)	7.07632e-15	(0.335)
H-abstraction	2.98976e-15	(0.141)	2.98976e-15	(0.141)

species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.773263	0.773263	0.773640	0.773640
Benzene+2-propynyl	0.141326	0.914589	0.141394	0.915034
Indene+H	0.0687232	0.983312	0.0687566	0.983791
C2H2+PhCH2	0.0101607	0.993472	0.0101656	0.993956
PhCCH+CH3	0.00210389	0.995576	0.00210491	0.996061
PhCHCCH2+H	0.00118780	0.996764	0.00118837	0.997250
rad23	0.000935234	0.997699	0.000935683	0.998185
Phenyl+Allene	0.000486130	0.998185	0.000000	0.998185
PhCCCH3+H	0.000331016	0.998517	0.000331177	0.998516
Ph+MeAc	0.000291167	0.998808	0.000291309	0.998808
rad28	0.000264850	0.999073	0.000264979	0.999073
rad7	0.000236105	0.999309	0.000236220	0.999309
rad2	0.000212925	0.999522	0.000213029	0.999522
rad45	0.000128356	0.999650	0.000128418	0.999650
rad11	0.000111447	0.999761	0.000111502	0.999762
PhCH2CCH+H	9.49282e-05	0.999856	9.49747e-05	0.999857
PAH7+H	4.15625e-05	0.999898	4.15827e-05	0.999899
rad1	2.54266e-05	0.999923	2.54390e-05	0.999924
rad10	1.63631e-05	0.999940	1.63710e-05	0.999940
rad26	1.57487e-05	0.999955	1.57564e-05	0.999956
rad39	1.01373e-05	0.999966	1.01422e-05	0.999966
rad3	9.01016e-06	0.999975	9.01450e-06	0.999975
rad36	5.97296e-06	0.999981	5.97586e-06	0.999981
rad9	5.61784e-06	0.999986	5.62058e-06	0.999987
rad4	5.07249e-06	0.999991	5.07495e-06	0.999992
rad22	2.67671e-06	0.999994	2.67802e-06	0.999995
rad30	1.27758e-06	0.999995	1.27820e-06	0.999996
PAH9+H	1.24795e-06	0.999996	1.24856e-06	0.999997
rad19anti	1.23007e-06	0.999998	1.23067e-06	0.999998
rad13	9.70010e-07	0.999999	9.70482e-07	0.999999
rad38	4.27112e-07	0.999999	4.27320e-07	1.000000
rad35	3.26068e-07	0.999999	3.26226e-07	1.000000
rad37	1.82426e-07	1.000000	1.82515e-07	1.000000
rad46	4.05532e-08	1.000000	4.05730e-08	1.000000
rad19syn	2.28509e-08	1.000000	2.28620e-08	1.000000
rad60syn	5.89344e-09	1.000000	5.89630e-09	1.000000
rad15	5.50658e-09	1.000000	5.50925e-09	1.000000
PAH3+H	4.34304e-09	1.000000	4.34515e-09	1.000000
rad54	3.75026e-09	1.000000	3.75209e-09	1.000000
rad60anti	2.95883e-09	1.000000	2.96027e-09	1.000000
rad25	2.13445e-09	1.000000	2.13549e-09	1.000000
rad33	2.08546e-09	1.000000	2.08648e-09	1.000000
rad50	1.73465e-09	1.000000	1.73550e-09	1.000000
PAH10+CH3	1.51529e-09	1.000000	1.51602e-09	1.000000
rad14	1.04046e-09	1.000000	1.04097e-09	1.000000
rad18	7.79046e-10	1.000000	7.79425e-10	1.000000
rad59	7.44471e-10	1.000000	7.44833e-10	1.000000
PhcycC3H3_A+H	6.41508e-10	1.000000	6.41820e-10	1.000000
rad20	3.40696e-10	1.000000	3.40861e-10	1.000000
rad27	3.16483e-10	1.000000	3.16637e-10	1.000000
rad21	2.52179e-10	1.000000	2.52301e-10	1.000000
rad43	1.84231e-10	1.000000	1.84320e-10	1.000000
rad70	1.77382e-10	1.000000	1.77469e-10	1.000000
rad62	1.70789e-10	1.000000	1.70871e-10	1.000000
rad67	1.63905e-10	1.000000	1.63985e-10	1.000000
rad51	9.61234e-11	1.000000	9.61698e-11	1.000000
PAH1+H	9.19941e-11	1.000000	9.20391e-11	1.000000
rad55	7.56510e-11	1.000000	7.56878e-11	1.000000
rad52	6.00032e-11	1.000000	6.00324e-11	1.000000
rad31	2.06851e-11	1.000000	2.06952e-11	1.000000
rad5	1.95955e-11	1.000000	1.96051e-11	1.000000
rad34	8.92540e-12	1.000000	8.92976e-12	1.000000
rad24	3.31921e-12	1.000000	3.32083e-12	1.000000
rad65	2.84066e-12	1.000000	2.84204e-12	1.000000
rad58	6.65103e-13	1.000000	6.65427e-13	1.000000
rad42	4.21616e-13	1.000000	4.21821e-13	1.000000
rad41	2.57181e-13	1.000000	2.57306e-13	1.000000
rad12	2.50119e-13	1.000000	2.50241e-13	1.000000
rad53	2.22192e-13	1.000000	2.22301e-13	1.000000

rad73	1.65807e-13	1.000000	1.65888e-13	1.00000
rad71	1.30562e-13	1.000000	1.30627e-13	1.00000
rad64	9.85209e-14	1.000000	9.85688e-14	1.00000
rad56	3.08568e-14	1.000000	3.08718e-14	1.00000
rad61	5.02183e-15	1.000000	5.02427e-15	1.00000
rad68syn	3.48305e-15	1.000000	3.48474e-15	1.00000
PAH8+H	2.92529e-15	1.000000	2.92671e-15	1.00000
rad68anti	2.36643e-15	1.000000	2.36758e-15	1.00000
rad72	1.46914e-15	1.000000	1.46986e-15	1.00000
rad40syn	5.90489e-16	1.000000	5.90776e-16	1.00000
rad40anti	3.46029e-16	1.000000	3.46197e-16	1.00000
rad47	8.44443e-18	1.000000	8.44853e-18	1.00000
rad8	9.84899e-30	1.000000	9.85379e-30	1.00000

100.000000 Pa, 600.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	6.08120e-14	(1.00)	6.06085e-14	(1.00)
Formation of rad11	2.83304e-14	(0.466)	2.82145e-14	(0.466)
Formation of rad6	2.13840e-14	(0.352)	2.12965e-14	(0.351)
H-abstraction	1.10975e-14	(0.182)	1.10975e-14	(0.183)

species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.648081	0.648081	0.650257	0.650257
Benzene+2-propynyl	0.182488	0.830569	0.183101	0.833358
Indene+H	0.117122	0.947691	0.117515	0.950873
C2H2+PhCH2	0.0293178	0.977008	0.0294162	0.980290
PhCCH+CH3	0.00919063	0.986199	0.00922148	0.989511
PhCHCCH2+H	0.00491290	0.991112	0.00492940	0.994440
Phenyl+Allene	0.00334630	0.994458	0.000000	0.994440
Ph+MeAc	0.00133285	0.995791	0.00133733	0.995778
PhCCCH3+H	0.00117897	0.996970	0.00118294	0.996961
PhCH2CCH+H	0.000729198	0.997699	0.000731646	0.997692
rad23	0.000635349	0.998335	0.000637482	0.998330
rad28	0.000477092	0.998812	0.000478694	0.998808
PAH7+H	0.000316931	0.999129	0.000317995	0.999126
rad2	0.000247354	0.999376	0.000248185	0.999375
rad7	0.000200134	0.999576	0.000200807	0.999575
rad45	0.000131649	0.999708	0.000132091	0.999708
rad11	8.02514e-05	0.999788	8.05209e-05	0.999788
rad39	7.71199e-05	0.999865	7.73788e-05	0.999865
rad1	3.65742e-05	0.999902	3.66970e-05	0.999902
rad26	1.95886e-05	0.999921	1.96544e-05	0.999922
rad10	1.20550e-05	0.999933	1.20955e-05	0.999934
rad3	1.20152e-05	0.999945	1.20556e-05	0.999946
PAH9+H	8.94341e-06	0.999954	8.97347e-06	0.999955
rad19anti	7.90879e-06	0.999962	7.93535e-06	0.999963
rad36	7.85065e-06	0.999970	7.87701e-06	0.999971
rad4	7.32216e-06	0.999977	7.34674e-06	0.999978
rad9	7.20859e-06	0.999985	7.23279e-06	0.999985
rad30	4.52964e-06	0.999989	4.54485e-06	0.999990
rad38	3.42923e-06	0.999993	3.44075e-06	0.999993
rad35	1.96169e-06	0.999995	1.96828e-06	0.999995
rad22	1.57447e-06	0.999996	1.57976e-06	0.999997
rad37	1.05030e-06	0.999997	1.05382e-06	0.999998
rad13	1.03768e-06	0.999998	1.04117e-06	0.999999
rad46	5.78840e-07	0.999999	5.80783e-07	1.000000
rad19syn	3.23390e-07	0.999999	3.24476e-07	1.000000
rad50	1.82941e-07	0.999999	1.83555e-07	1.000000
rad54	6.33220e-08	0.999999	6.35346e-08	1.000000
PAH3+H	4.90769e-08	0.999999	4.92417e-08	1.000000
rad51	3.80365e-08	0.999999	3.81641e-08	1.000000
rad60syn	3.70339e-08	1.000000	3.71582e-08	1.000000
PAH10+CH3	2.95728e-08	1.000000	2.96720e-08	1.000000
rad60anti	1.94158e-08	1.000000	1.94810e-08	1.000000
PhcycC3H3_A+H	1.57499e-08	1.000000	1.58027e-08	1.000000
rad52	1.31350e-08	1.000000	1.31792e-08	1.000000
rad59	7.58535e-09	1.000000	7.61081e-09	1.000000
rad15	6.67966e-09	1.000000	6.70209e-09	1.000000
rad70	3.74677e-09	1.000000	3.75935e-09	1.000000
PAH1+H	3.71098e-09	1.000000	3.72343e-09	1.000000
rad67	3.20087e-09	1.000000	3.21161e-09	1.000000
rad33	3.17306e-09	1.000000	3.18371e-09	1.000000
rad43	2.56653e-09	1.000000	2.57514e-09	1.000000
rad62	2.50870e-09	1.000000	2.51712e-09	1.000000
rad55	1.65226e-09	1.000000	1.65781e-09	1.000000
rad25	1.54054e-09	1.000000	1.54571e-09	1.000000
rad14	1.09274e-09	1.000000	1.09642e-09	1.000000

rad65	1.04196e-09	1.000000	1.04545e-09	1.00000
rad18	8.78081e-10	1.000000	8.81026e-10	1.00000
rad20	8.38056e-10	1.000000	8.40875e-10	1.00000
rad71	7.49719e-10	1.000000	7.52236e-10	1.00000
rad21	7.20366e-10	1.000000	7.22785e-10	1.00000
rad73	5.90841e-10	1.000000	5.92824e-10	1.00000
rad27	2.98965e-10	1.000000	2.99969e-10	1.00000
rad34	2.79876e-10	1.000000	2.80816e-10	1.00000
rad31	1.53142e-10	1.000000	1.53656e-10	1.00000
rad58	5.87816e-11	1.000000	5.89790e-11	1.00000
rad64	2.39295e-11	1.000000	2.40098e-11	1.00000
rad72	2.12707e-11	1.000000	2.13421e-11	1.00000
rad41	1.87940e-11	1.000000	1.88571e-11	1.00000
rad5	1.84172e-11	1.000000	1.84791e-11	1.00000
rad53	1.66161e-11	1.000000	1.66718e-11	1.00000
rad42	1.51412e-11	1.000000	1.51920e-11	1.00000
rad24	1.02552e-11	1.000000	1.02897e-11	1.00000
PAH8+H	9.63503e-12	1.000000	9.66743e-12	1.00000
rad56	7.73486e-12	1.000000	7.76083e-12	1.00000
rad61	5.55913e-12	1.000000	5.57779e-12	1.00000
rad68syn	3.03254e-12	1.000000	3.04272e-12	1.00000
rad68anti	1.98039e-12	1.000000	1.98703e-12	1.00000
rad12	1.77909e-12	1.000000	1.78506e-12	1.00000
rad40syn	1.29235e-12	1.000000	1.29669e-12	1.00000
rad40anti	8.46116e-13	1.000000	8.48962e-13	1.00000
rad47	3.43312e-15	1.000000	3.44464e-15	1.00000
rad8	2.29903e-25	1.000000	2.30675e-25	1.00000

100.000000 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.39564e-13 (1.00)	1.37722e-13 (1.00)
Formation of rad11	5.88273e-14 (0.422)	5.78334e-14 (0.420)
Formation of rad6	5.01684e-14 (0.359)	4.93208e-14 (0.358)
H-abstraction	3.05678e-14 (0.219)	3.05678e-14 (0.222)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.460649	0.460649	0.466809	0.466809
Benzene+2-propynyl	0.219024	0.679673	0.221953	0.688762
Indene+H	0.191330	0.871003	0.193888	0.882650
C2H2+PhCH2	0.0664453	0.937448	0.0673338	0.949983
PhCCH+CH3	0.0236214	0.961070	0.0239372	0.973921
PhCHCCH2+H	0.0135687	0.974639	0.0137502	0.987671
Phenyl+Allene	0.0131952	0.987834	0.000000	0.987671
Ph+MeAc	0.00343541	0.991269	0.00348135	0.991152
PhCH2CCH+H	0.00313940	0.994409	0.00318138	0.994333
PhCCCH3+H	0.00245750	0.996866	0.00249037	0.996824
PAH7+H	0.00116536	0.998031	0.00118095	0.998005
rad28	0.000496744	0.998528	0.000503386	0.998508
rad23	0.000437661	0.998966	0.000443513	0.998952
rad39	0.000280838	0.999247	0.000284594	0.999236
rad2	0.000201496	0.999448	0.000204190	0.999440
rad7	0.000150208	0.999598	0.000152217	0.999593
rad45	0.000106902	0.999705	0.000108331	0.999701
rad11	6.15107e-05	0.999767	6.23332e-05	0.999763
PAH9+H	4.92014e-05	0.999816	4.98593e-05	0.999813
rad1	3.46549e-05	0.999851	3.51183e-05	0.999848
rad19anti	3.05424e-05	0.999881	3.09508e-05	0.999879
rad38	2.09585e-05	0.999902	2.12387e-05	0.999901
rad26	1.51780e-05	0.999917	1.53810e-05	0.999916
rad30	1.18158e-05	0.999929	1.19738e-05	0.999928
rad9	1.18126e-05	0.999941	1.19706e-05	0.999940
rad3	9.72861e-06	0.999951	9.85871e-06	0.999950
rad35	9.05245e-06	0.999960	9.17349e-06	0.999959
rad36	7.71337e-06	0.999967	7.81649e-06	0.999967
rad10	6.67055e-06	0.999974	6.75974e-06	0.999973
rad4	6.41000e-06	0.999981	6.49571e-06	0.999980
rad46	5.28818e-06	0.999986	5.35889e-06	0.999985
rad50	3.61041e-06	0.999989	3.65870e-06	0.999989
rad37	3.10248e-06	0.999993	3.14397e-06	0.999992
rad19syn	2.05717e-06	0.999995	2.08468e-06	0.999994
rad13	1.17103e-06	0.999996	1.18669e-06	0.999995
rad22	1.09272e-06	0.999997	1.10733e-06	0.999997
rad51	1.00058e-06	0.999998	1.01396e-06	0.999998
rad54	4.61137e-07	0.999998	4.67304e-07	0.999998
PAH3+H	3.39660e-07	0.999999	3.44203e-07	0.999998
PAH10+CH3	3.05654e-07	0.999999	3.09741e-07	0.999999
rad52	3.03429e-07	0.999999	3.07486e-07	0.999999

PhcycC3H3_A+H	1.52888e-07	0.999999	1.54932e-07	0.999999
rad60syn	1.44189e-07	1.000000	1.46117e-07	0.999999
rad60anti	7.81835e-08	1.000000	7.92293e-08	0.999999
PAH1+H	6.41674e-08	1.000000	6.50254e-08	0.999999
rad59	4.53603e-08	1.000000	4.59669e-08	0.999999
rad67	3.53205e-08	1.000000	3.57927e-08	0.999999
rad70	3.47936e-08	1.000000	3.52588e-08	1.000000
rad71	3.14271e-08	1.000000	3.18473e-08	1.000000
rad65	2.65704e-08	1.000000	2.69257e-08	1.000000
rad73	2.29956e-08	1.000000	2.33031e-08	1.000000
rad43	1.93808e-08	1.000000	1.96400e-08	1.000000
rad62	1.71744e-08	1.000000	1.74041e-08	1.000000
rad55	1.45409e-08	1.000000	1.47354e-08	1.000000
rad15	7.49204e-09	1.000000	7.59222e-09	1.000000
rad33	6.68511e-09	1.000000	6.77450e-09	1.000000
rad21	4.67498e-09	1.000000	4.73750e-09	1.000000
rad20	4.26367e-09	1.000000	4.32069e-09	1.000000
rad34	3.73012e-09	1.000000	3.77999e-09	1.000000
rad18	1.75931e-09	1.000000	1.78284e-09	1.000000
rad25	1.73003e-09	1.000000	1.75317e-09	1.000000
rad58	1.35199e-09	1.000000	1.37006e-09	1.000000
rad72	1.01339e-09	1.000000	1.02694e-09	1.000000
rad14	9.86935e-10	1.000000	1.00013e-09	1.000000
rad64	7.28425e-10	1.000000	7.38165e-10	1.000000
rad41	5.45794e-10	1.000000	5.53092e-10	1.000000
PAH8+H	5.16854e-10	1.000000	5.23765e-10	1.000000
rad31	3.07590e-10	1.000000	3.11703e-10	1.000000
rad42	2.78912e-10	1.000000	2.82641e-10	1.000000
rad53	2.72581e-10	1.000000	2.76226e-10	1.000000
rad27	2.66520e-10	1.000000	2.70084e-10	1.000000
rad61	2.46816e-10	1.000000	2.50116e-10	1.000000
rad56	1.43703e-10	1.000000	1.45624e-10	1.000000
rad24	1.29671e-10	1.000000	1.31404e-10	1.000000
rad68syn	1.11216e-10	1.000000	1.12704e-10	1.000000
rad40syn	7.51173e-11	1.000000	7.61217e-11	1.000000
rad68anti	7.23697e-11	1.000000	7.33374e-11	1.000000
rad40anti	5.73980e-11	1.000000	5.81655e-11	1.000000
rad12	3.63130e-11	1.000000	3.67986e-11	1.000000
rad5	1.25771e-11	1.000000	1.27452e-11	1.000000
rad47	4.32547e-13	1.000000	4.38331e-13	1.000000
rad8	8.48343e-21	1.000000	8.59687e-21	1.000000

100.000000 Pa, 800.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.75392e-13	(1.00)	2.66236e-13	(1.00)
Formation of rad11	1.06471e-13	(0.387)	1.01743e-13	(0.382)
Formation of rad6	9.97133e-14	(0.362)	9.52854e-14	(0.358)
H-abstraction	6.92082e-14	(0.251)	6.92082e-14	(0.260)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.271075	0.271075	0.280397	0.280397
Benzene+2-propynyl	0.251308	0.522383	0.259950	0.540348
Indene+H	0.247883	0.770266	0.256407	0.796755
C2H2+PhCH2	0.108194	0.878460	0.111916	0.908670
PhCCH+CH3	0.0399576	0.918418	0.0413317	0.950002
Phenyl+Allene	0.0332469	0.951665	0.000000	0.950002
PhCHCCH2+H	0.0261283	0.977793	0.0270269	0.977029
PhCH2CCH+H	0.00856893	0.986362	0.00886358	0.985893
Ph+MeAc	0.00569862	0.992061	0.00589459	0.991787
PhCCCH3+H	0.00337052	0.995431	0.00348644	0.995274
PAH7+H	0.00260043	0.998032	0.00268987	0.997964
rad39	0.000616329	0.998648	0.000637525	0.998601
rad28	0.000352451	0.999000	0.000364572	0.998966
rad23	0.000245603	0.999246	0.000254049	0.999220
PAH9+H	0.000126218	0.999372	0.000130559	0.999350
rad2	0.000102923	0.999475	0.000106464	0.999457
rad7	0.000102466	0.999578	0.000105990	0.999563
rad19anti	7.75967e-05	0.999655	8.02651e-05	0.999643
rad45	7.36060e-05	0.999729	7.61371e-05	0.999719
rad38	5.56203e-05	0.999784	5.75331e-05	0.999777
rad11	4.72743e-05	0.999832	4.89001e-05	0.999826
rad9	2.37826e-05	0.999855	2.46004e-05	0.999850
rad35	2.17689e-05	0.999877	2.25176e-05	0.999873
rad30	2.15264e-05	0.999899	2.22667e-05	0.999895
rad1	1.86733e-05	0.999917	1.93154e-05	0.999914
rad46	1.56889e-05	0.999933	1.62284e-05	0.999930
rad50	1.28852e-05	0.999946	1.33283e-05	0.999944

rad26	8.76614e-06	0.999955	9.06761e-06	0.999953
rad19syn	7.62169e-06	0.999962	7.88382e-06	0.999961
rad36	5.98371e-06	0.999968	6.18949e-06	0.999967
rad37	5.62827e-06	0.999974	5.82183e-06	0.999973
rad3	5.26526e-06	0.999979	5.44634e-06	0.999978
rad51	3.84696e-06	0.999983	3.97925e-06	0.999982
rad4	3.62986e-06	0.999987	3.75469e-06	0.999986
rad10	2.98120e-06	0.999990	3.08372e-06	0.999989
rad54	1.90930e-06	0.999992	1.97496e-06	0.999991
rad13	1.53016e-06	0.999993	1.58279e-06	0.999993
rad52	1.12507e-06	0.999994	1.16377e-06	0.999994
PAH3+H	1.12132e-06	0.999995	1.15988e-06	0.999995
PAH10+CH3	1.05424e-06	0.999996	1.09050e-06	0.999996
rad22	8.17939e-07	0.999997	8.46069e-07	0.999997
PhcycC3H3_A+H	7.89256e-07	0.999998	8.16401e-07	0.999998
rad60syn	3.54784e-07	0.999998	3.66985e-07	0.999998
PAH1+H	3.03328e-07	0.999999	3.13760e-07	0.999998
rad60anti	1.96826e-07	0.999999	2.03595e-07	0.999999
rad67	1.68771e-07	0.999999	1.74575e-07	0.999999
rad70	1.61287e-07	0.999999	1.66834e-07	0.999999
rad59	1.41943e-07	0.999999	1.46824e-07	0.999999
rad71	1.38464e-07	0.999999	1.43226e-07	0.999999
rad65	1.01109e-07	1.000000	1.04586e-07	0.999999
rad73	9.91014e-08	1.000000	1.02509e-07	0.999999
rad55	6.96723e-08	1.000000	7.20684e-08	0.999999
rad43	6.20057e-08	1.000000	6.41381e-08	1.000000
rad62	6.16427e-08	1.000000	6.37626e-08	1.000000
rad21	4.76186e-08	1.000000	4.92562e-08	1.000000
rad20	3.35793e-08	1.000000	3.47341e-08	1.000000
rad33	2.35312e-08	1.000000	2.43405e-08	1.000000
rad34	1.91907e-08	1.000000	1.98507e-08	1.000000
rad15	8.78366e-09	1.000000	9.08574e-09	1.000000
rad18	6.33907e-09	1.000000	6.55708e-09	1.000000
rad58	5.37898e-09	1.000000	5.56396e-09	1.000000
rad72	4.63843e-09	1.000000	4.79794e-09	1.000000
rad64	3.29693e-09	1.000000	3.41032e-09	1.000000
PAH8+H	2.87459e-09	1.000000	2.97345e-09	1.000000
rad41	2.83399e-09	1.000000	2.93146e-09	1.000000
rad25	2.78091e-09	1.000000	2.87654e-09	1.000000
rad24	2.55877e-09	1.000000	2.64677e-09	1.000000
rad53	1.73947e-09	1.000000	1.79928e-09	1.000000
rad42	1.50260e-09	1.000000	1.55428e-09	1.000000
rad61	1.22918e-09	1.000000	1.27145e-09	1.000000
rad14	9.58753e-10	1.000000	9.91726e-10	1.000000
rad12	7.71969e-10	1.000000	7.98521e-10	1.000000
rad56	7.41655e-10	1.000000	7.67158e-10	1.000000
rad68syn	5.03782e-10	1.000000	5.21108e-10	1.000000
rad40syn	4.44281e-10	1.000000	4.59560e-10	1.000000
rad40anti	3.64103e-10	1.000000	3.76624e-10	1.000000
rad68anti	3.28246e-10	1.000000	3.39535e-10	1.000000
rad31	3.18015e-10	1.000000	3.28951e-10	1.000000
rad27	2.76534e-10	1.000000	2.86044e-10	1.000000
rad5	7.70292e-12	1.000000	7.96782e-12	1.000000
rad47	3.56763e-12	1.000000	3.69032e-12	1.000000
rad8	8.98932e-17	1.000000	9.29850e-17	1.000000

100.000000 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.88072e-13 (1.00)	4.57569e-13 (1.00)
Formation of rad11	1.74945e-13 (0.358)	1.59762e-13 (0.349)
Formation of rad6	1.76509e-13 (0.362)	1.61189e-13 (0.352)
H-abstraction	1.36618e-13 (0.280)	1.36618e-13 (0.299)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.279914	0.279914	0.298574	0.298574
Indene+H	0.263665	0.543579	0.281242	0.579815
C2H2+PhCH2	0.137853	0.681432	0.147042	0.726858
rad6	0.130190	0.811622	0.138869	0.865727
Phenyl+Allene	0.0624972	0.874119	0.000000	0.865727
PhCCH+CH3	0.0518339	0.925953	0.0552893	0.921016
PhCHCCH2+H	0.0396614	0.965614	0.0423054	0.963321
PhCH2CCH+H	0.0172859	0.982900	0.0184382	0.981760
Ph+MeAc	0.00717062	0.990071	0.00764863	0.989408
PAH7+H	0.00426819	0.994339	0.00455272	0.993961
PhCCCH3+H	0.00355536	0.997894	0.00379237	0.997753
rad39	0.000986439	0.998881	0.00105220	0.998805
rad28	0.000187170	0.999068	0.000199648	0.999005

PAH9+H	0.000173347	0.999241	0.000184903	0.999190
rad19anti	0.000148962	0.999390	0.000158892	0.999349
rad23	0.000133833	0.999524	0.000142755	0.999492
rad38	7.54931e-05	0.999600	8.05258e-05	0.999572
rad7	6.61740e-05	0.999666	7.05852e-05	0.999643
rad45	4.84205e-05	0.999714	5.16483e-05	0.999694
rad2	4.21770e-05	0.999756	4.49887e-05	0.999739
rad11	3.76785e-05	0.999794	4.01903e-05	0.999780
rad9	3.17008e-05	0.999826	3.38140e-05	0.999813
rad35	3.03817e-05	0.999856	3.24071e-05	0.999846
rad30	3.02235e-05	0.999886	3.22383e-05	0.999878
rad46	2.07512e-05	0.999907	2.21346e-05	0.999900
rad19syn	2.00304e-05	0.999927	2.13657e-05	0.999922
rad50	1.66623e-05	0.999944	1.77730e-05	0.999939
rad1	8.29403e-06	0.999952	8.84695e-06	0.999948
rad37	7.66842e-06	0.999960	8.17961e-06	0.999956
rad54	5.51702e-06	0.999965	5.88480e-06	0.999962
rad51	5.05251e-06	0.999970	5.38932e-06	0.999968
rad26	4.28418e-06	0.999975	4.56977e-06	0.999972
rad36	4.25403e-06	0.999979	4.53762e-06	0.999977
PhcycC3H3_A+H	2.76267e-06	0.999982	2.94684e-06	0.999980
rad3	2.50530e-06	0.999984	2.67231e-06	0.999982
rad13	2.48331e-06	0.999987	2.64886e-06	0.999985
PAH3+H	2.15880e-06	0.999989	2.30272e-06	0.999987
rad4	1.82275e-06	0.999991	1.94426e-06	0.999989
PAH10+CH3	1.66592e-06	0.999992	1.77697e-06	0.999991
rad52	1.46270e-06	0.999994	1.56021e-06	0.999993
rad10	1.40312e-06	0.999995	1.49665e-06	0.999994
rad22	8.35495e-07	0.999996	8.91190e-07	0.999995
PAH1+H	7.43007e-07	0.999997	7.92542e-07	0.999996
rad60syn	6.23644e-07	0.999997	6.65218e-07	0.999996
rad67	5.37464e-07	0.999998	5.73293e-07	0.999997
rad70	4.86699e-07	0.999998	5.19144e-07	0.999998
rad60anti	3.50741e-07	0.999999	3.74123e-07	0.999998
rad21	3.26677e-07	0.999999	3.48454e-07	0.999998
rad59	2.76166e-07	0.999999	2.94576e-07	0.999999
rad55	2.27367e-07	1.000000	2.42524e-07	0.999999
rad20	1.99008e-07	1.000000	2.12275e-07	0.999999
rad71	1.92109e-07	1.000000	2.04915e-07	0.999999
rad73	1.36119e-07	1.000000	1.45194e-07	0.999999
rad62	1.35869e-07	1.000000	1.44927e-07	1.000000
rad65	1.32306e-07	1.000000	1.41126e-07	1.000000
rad33	9.73650e-08	1.000000	1.03856e-07	1.000000
rad43	9.32346e-08	1.000000	9.94496e-08	1.000000
rad34	6.01819e-08	1.000000	6.41938e-08	1.000000
rad18	2.28705e-08	1.000000	2.43951e-08	1.000000
rad24	1.29767e-08	1.000000	1.38418e-08	1.000000
rad15	9.13422e-09	1.000000	9.74309e-09	1.000000
rad58	8.40888e-09	1.000000	8.96949e-09	1.000000
rad53	7.64148e-09	1.000000	8.15085e-09	1.000000
rad72	6.55201e-09	1.000000	6.98879e-09	1.000000
rad64	6.48893e-09	1.000000	6.92151e-09	1.000000
rad25	6.32288e-09	1.000000	6.74439e-09	1.000000
PAH8+H	4.78213e-09	1.000000	5.10092e-09	1.000000
rad41	4.69431e-09	1.000000	5.00724e-09	1.000000
rad12	4.25124e-09	1.000000	4.53464e-09	1.000000
rad42	3.08185e-09	1.000000	3.28730e-09	1.000000
rad56	2.86015e-09	1.000000	3.05081e-09	1.000000
rad61	1.91783e-09	1.000000	2.04569e-09	1.000000
rad14	1.36558e-09	1.000000	1.45662e-09	1.000000
rad68syn	9.05055e-10	1.000000	9.65387e-10	1.000000
rad40syn	7.72890e-10	1.000000	8.24414e-10	1.000000
rad40anti	6.46126e-10	1.000000	6.89198e-10	1.000000
rad68anti	5.94176e-10	1.000000	6.33786e-10	1.000000
rad27	5.15410e-10	1.000000	5.49769e-10	1.000000
rad31	2.56236e-10	1.000000	2.73317e-10	1.000000
rad47	5.67278e-12	1.000000	6.05095e-12	1.000000
rad5	4.56609e-12	1.000000	4.87048e-12	1.000000
rad8	6.61051e-14	1.000000	7.05116e-14	1.000000

100.000000 Pa, 1000.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.98668e-13 (1.00)	7.21576e-13 (1.00)
Formation of rad11	2.67704e-13 (0.335)	2.30502e-13 (0.319)
Formation of rad6	2.87049e-13 (0.359)	2.47159e-13 (0.343)
H-abstraction	2.43915e-13 (0.305)	2.43915e-13 (0.338)
species	PYtrue Cumul	PYeffective Cumul

Benzene+2-propynyl	0.305402	0.305402	0.338030	0.338030
Indene+H	0.241915	0.547317	0.267761	0.605792
C2H2+PhCH2	0.147514	0.694831	0.163274	0.769066
Phenyl+Allene	0.0965255	0.791357	0.00000	0.769066
PhCCH+CH3	0.0562919	0.847649	0.0623061	0.831372
rad6	0.0538520	0.901501	0.0596055	0.890978
PhCHCCH2+H	0.0512925	0.952793	0.0567726	0.947750
PhCH2CCH+H	0.0283916	0.981185	0.0314250	0.979175
Ph+MeAc	0.00762245	0.988807	0.00843680	0.987612
PAH7+H	0.00574237	0.994549	0.00635588	0.993968
PhCCCH3+H	0.00313469	0.997684	0.00346960	0.997437
rad39	0.00128578	0.998970	0.00142316	0.998860
rad19anti	0.000234363	0.999204	0.000259402	0.999120
PAH9+H	0.000191101	0.999395	0.000211517	0.999331
rad28	8.29197e-05	0.999478	9.17788e-05	0.999423
rad38	8.09950e-05	0.999559	8.96479e-05	0.999513
rad23	7.45290e-05	0.999634	8.24913e-05	0.999595
rad7	4.56041e-05	0.999679	5.04764e-05	0.999646
rad19syn	4.18706e-05	0.999721	4.63440e-05	0.999692
rad30	3.55254e-05	0.999757	3.93209e-05	0.999731
rad35	3.48244e-05	0.999792	3.85450e-05	0.999770
rad11	3.47067e-05	0.999826	3.84147e-05	0.999808
rad45	3.05453e-05	0.999857	3.38088e-05	0.999842
rad9	2.50655e-05	0.999882	2.77435e-05	0.999870
rad46	2.05706e-05	0.999903	2.27683e-05	0.999893
rad2	1.67400e-05	0.999919	1.85285e-05	0.999911
rad50	1.39384e-05	0.999933	1.54275e-05	0.999927
rad54	1.25262e-05	0.999946	1.38644e-05	0.999941
rad37	9.12862e-06	0.999955	1.01039e-05	0.999951
PhcycC3H3_A+H	7.48811e-06	0.999962	8.28819e-06	0.999959
rad13	4.83750e-06	0.999967	5.35433e-06	0.999964
rad51	4.08705e-06	0.999971	4.52371e-06	0.999969
rad1	3.61850e-06	0.999975	4.00509e-06	0.999973
PAH3+H	3.45106e-06	0.999978	3.81977e-06	0.999977
rad36	2.76318e-06	0.999981	3.05840e-06	0.999980
PAH10+CH3	2.06833e-06	0.999983	2.28930e-06	0.999982
rad26	1.92886e-06	0.999985	2.13494e-06	0.999984
PAH1+H	1.60943e-06	0.999987	1.78138e-06	0.999986
rad67	1.31438e-06	0.999988	1.45481e-06	0.999987
rad52	1.19567e-06	0.999989	1.32342e-06	0.999989
rad3	1.16767e-06	0.999990	1.29242e-06	0.999990
rad70	1.16133e-06	0.999992	1.28541e-06	0.999991
rad10	9.43639e-07	0.999993	1.04446e-06	0.999992
rad21	9.14049e-07	0.999993	1.01171e-06	0.999993
rad22	9.09535e-07	0.999994	1.00671e-06	0.999994
rad60syn	9.01394e-07	0.999995	9.97701e-07	0.999995
rad4	8.81778e-07	0.999996	9.75988e-07	0.999996
rad55	5.73875e-07	0.999997	6.35187e-07	0.999997
rad20	5.35447e-07	0.999997	5.92653e-07	0.999998
rad60anti	5.13406e-07	0.999998	5.68257e-07	0.999998
rad59	4.42367e-07	0.999998	4.89629e-07	0.999999
rad62	2.45788e-07	0.999998	2.72048e-07	0.999999
rad33	2.36784e-07	0.999999	2.62082e-07	0.999999
rad71	1.56243e-07	0.999999	1.72936e-07	0.999999
rad34	1.55759e-07	0.999999	1.72401e-07	0.999999
rad73	1.10312e-07	0.999999	1.22098e-07	1.000000
rad65	1.07226e-07	0.999999	1.18683e-07	1.000000
rad43	9.29963e-08	0.999999	1.02932e-07	1.000000
rad18	5.03059e-08	0.999999	5.56805e-08	1.000000
rad53	2.72316e-08	0.999999	3.01409e-08	1.000000
rad24	2.11538e-08	0.999999	2.34139e-08	1.000000
rad25	1.60349e-08	0.999999	1.77480e-08	1.000000
rad64	1.27103e-08	0.999999	1.40683e-08	1.000000
rad56	1.14151e-08	0.999999	1.26347e-08	1.000000
rad58	1.07348e-08	0.999999	1.18817e-08	1.000000
rad15	8.29531e-09	0.999999	9.18152e-09	1.000000
rad12	8.21244e-09	0.999999	9.08990e-09	1.000000
rad42	5.46972e-09	0.999999	6.05410e-09	1.000000
rad72	5.36544e-09	1.000000	5.93867e-09	1.000000
PAH8+H	4.62542e-09	1.000000	5.11959e-09	1.000000
rad41	4.03215e-09	1.000000	4.46294e-09	1.000000
rad14	2.31150e-09	1.000000	2.55846e-09	1.000000
rad61	1.74118e-09	1.000000	1.92720e-09	1.000000
rad68syn	1.72433e-09	1.000000	1.90856e-09	1.000000
rad68anti	1.14486e-09	1.000000	1.26718e-09	1.000000
rad27	1.09716e-09	1.000000	1.21438e-09	1.000000
rad40syn	7.89154e-10	1.000000	8.73469e-10	1.000000
rad40anti	6.08724e-10	1.000000	6.73759e-10	1.000000
rad31	1.83684e-10	1.000000	2.03308e-10	1.000000

rad47	4.64494e-12	1.000000	5.14120e-12	1.00000
rad8	3.21786e-12	1.000000	3.56165e-12	1.00000
rad5	3.00069e-12	1.000000	3.32128e-12	1.00000

100.000000 Pa, 1100.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.22919e-12	(1.00)	1.06791e-12	(1.00)
Formation of rad11	3.87976e-13	(0.316)	3.12195e-13	(0.292)
Formation of rad6	4.37724e-13	(0.356)	3.52227e-13	(0.330)
H-abstraction	4.03491e-13	(0.328)	4.03491e-13	(0.378)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.328257	0.328257	0.377831	0.377831
Indene+H	0.203504	0.531761	0.234237	0.612068
C2H2+PhCH2	0.141591	0.673352	0.162973	0.775042
Phenyl+Allene	0.131207	0.804558	0.000000	0.775042
PhCHCCH2+H	0.0600132	0.864572	0.0690763	0.844118
PhCCH+CH3	0.0550952	0.919667	0.0634158	0.907534
PhCH2CCH+H	0.0406038	0.960271	0.0467359	0.954270
rad6	0.0204252	0.980696	0.0235099	0.977780
Ph+MeAc	0.00741832	0.988114	0.00853871	0.986318
PAH7+H	0.00684002	0.994954	0.00787299	0.994191
PhCCCH3+H	0.00249094	0.997445	0.00286713	0.997059
rad39	0.00147705	0.998922	0.00170011	0.998759
rad19anti	0.000321624	0.999244	0.000370196	0.999129
PAH9+H	0.000207052	0.999451	0.000238321	0.999367
rad38	8.60321e-05	0.999537	9.90250e-05	0.999466
rad19syn	7.48268e-05	0.999612	8.61274e-05	0.999552
rad23	4.07606e-05	0.999652	4.69164e-05	0.999599
rad35	3.86309e-05	0.999691	4.44650e-05	0.999644
rad30	3.74605e-05	0.999729	4.31179e-05	0.999687
rad11	3.70436e-05	0.999766	4.26380e-05	0.999729
rad7	3.56812e-05	0.999801	4.10699e-05	0.999770
rad28	3.37946e-05	0.999835	3.88984e-05	0.999809
rad54	2.40299e-05	0.999859	2.76589e-05	0.999837
rad46	2.04869e-05	0.999880	2.35808e-05	0.999861
rad45	1.81080e-05	0.999898	2.08427e-05	0.999881
rad9	1.72847e-05	0.999915	1.98951e-05	0.999901
PhcycC3H3_A+H	1.68487e-05	0.999932	1.93932e-05	0.999921
rad50	1.06471e-05	0.999943	1.22551e-05	0.999933
rad37	1.03946e-05	0.999953	1.19644e-05	0.999945
rad13	7.68232e-06	0.999961	8.84257e-06	0.999954
rad2	6.60695e-06	0.999967	7.60477e-06	0.999961
PAH3+H	5.12389e-06	0.999972	5.89771e-06	0.999967
PAH1+H	3.30089e-06	0.999976	3.79940e-06	0.999971
rad51	2.80265e-06	0.999978	3.22591e-06	0.999974
PAH10+CH3	2.79929e-06	0.999981	3.22205e-06	0.999978
rad70	2.33552e-06	0.999984	2.68823e-06	0.999980
rad67	2.29502e-06	0.999986	2.64162e-06	0.999983
rad36	1.65963e-06	0.999988	1.91028e-06	0.999985
rad1	1.50708e-06	0.999989	1.73467e-06	0.999987
rad55	1.20576e-06	0.999990	1.38787e-06	0.999988
rad60syn	1.16100e-06	0.999991	1.33634e-06	0.999989
rad21	1.12643e-06	0.999993	1.29654e-06	0.999991
rad26	8.57332e-07	0.999993	9.86809e-07	0.999992
rad52	8.56405e-07	0.999994	9.85739e-07	0.999993
rad10	8.54309e-07	0.999995	9.83325e-07	0.999994
rad22	7.16232e-07	0.999996	8.24398e-07	0.999994
rad60anti	6.69904e-07	0.999996	7.71072e-07	0.999995
rad59	6.43701e-07	0.999997	7.40916e-07	0.999996
rad20	6.38866e-07	0.999998	7.35347e-07	0.999997
rad3	5.26817e-07	0.999998	6.06378e-07	0.999997
rad4	4.05696e-07	0.999999	4.66965e-07	0.999998
rad62	3.99962e-07	0.999999	4.60365e-07	0.999998
rad34	3.45448e-07	0.999999	3.97617e-07	0.999999
rad33	2.84023e-07	1.000000	3.26917e-07	0.999999
rad71	1.01336e-07	1.000000	1.16640e-07	0.999999
rad43	8.68987e-08	1.000000	1.00022e-07	0.999999
rad53	7.90393e-08	1.000000	9.09754e-08	0.999999
rad65	7.44136e-08	1.000000	8.56521e-08	0.999999
rad73	7.16011e-08	1.000000	8.24143e-08	0.999999
rad18	6.54703e-08	1.000000	7.53577e-08	0.999999
rad56	3.92178e-08	1.000000	4.51406e-08	0.999999
rad25	2.89627e-08	1.000000	3.33367e-08	0.999999
rad64	2.82537e-08	1.000000	3.25207e-08	1.000000
rad24	2.02199e-08	1.000000	2.32737e-08	1.000000
rad58	1.55406e-08	1.000000	1.78875e-08	1.000000

rad42	1.02623e-08	1.00000	1.18121e-08	1.000000
rad12	9.98700e-09	1.00000	1.14953e-08	1.000000
rad15	8.82012e-09	1.00000	1.01521e-08	1.000000
PAH8+H	5.50957e-09	1.00000	6.34164e-09	1.000000
rad68syn	4.41743e-09	1.00000	5.08456e-09	1.000000
rad72	3.48385e-09	1.00000	4.01000e-09	1.000000
rad14	3.07506e-09	1.00000	3.53946e-09	1.000000
rad68anti	2.94017e-09	1.00000	3.38421e-09	1.000000
rad41	2.79618e-09	1.00000	3.21847e-09	1.000000
rad61	1.45991e-09	1.00000	1.68039e-09	1.000000
rad27	1.34320e-09	1.00000	1.54606e-09	1.000000
rad40syn	1.02769e-09	1.00000	1.18289e-09	1.000000
rad40anti	6.17588e-10	1.00000	7.10859e-10	1.000000
rad31	1.22867e-10	1.00000	1.41423e-10	1.000000
rad8	2.24288e-11	1.00000	2.58160e-11	1.000000
rad47	3.00942e-12	1.00000	3.46391e-12	1.000000
rad5	2.28151e-12	1.00000	2.62607e-12	1.000000

100.000000 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.50735e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.03341e-13 (0.268)
Formation of rad6	6.34764e-13 (0.352)	4.75188e-13 (0.315)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.417)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.417168	0.417168
Indene+H	0.163732	0.512615	0.195778	0.612946
Phenyl+Allene	0.163687	0.676302	0.000000	0.612946
C2H2+PhCH2	0.127306	0.803608	0.152224	0.765169
PhCHCCH2+H	0.0658247	0.869433	0.0787080	0.843877
PhCH2CCH+H	0.0527000	0.922133	0.0630146	0.906892
PhCCH+CH3	0.0509261	0.973059	0.0608937	0.967786
rad6	0.00780500	0.980864	0.00933260	0.977118
PAH7+H	0.00755003	0.988414	0.00902778	0.986146
Ph+MeAc	0.00691408	0.995328	0.00826736	0.994413
PhCCCH3+H	0.00187847	0.997207	0.00224613	0.996660
rad39	0.00156683	0.998773	0.00187350	0.998533
rad19anti	0.000404715	0.999178	0.000483928	0.999017
PAH9+H	0.000229418	0.999408	0.000274321	0.999291
rad19syn	0.000119520	0.999527	0.000142913	0.999434
rad38	9.49290e-05	0.999622	0.000113509	0.999548
rad35	4.28785e-05	0.999665	5.12709e-05	0.999599
rad54	4.07532e-05	0.999706	4.87295e-05	0.999648
rad11	4.01923e-05	0.999746	4.80590e-05	0.999696
rad30	3.70037e-05	0.999783	4.42462e-05	0.999740
PhcycC3H3_A+H	3.29458e-05	0.999816	3.93941e-05	0.999779
rad7	3.19352e-05	0.999848	3.81857e-05	0.999818
rad46	2.23332e-05	0.999870	2.67044e-05	0.999844
rad23	2.22755e-05	0.999892	2.66354e-05	0.999871
rad28	1.40615e-05	0.999906	1.68137e-05	0.999888
rad9	1.19583e-05	0.999918	1.42988e-05	0.999902
rad37	1.16914e-05	0.999930	1.39797e-05	0.999916
rad45	1.02994e-05	0.999940	1.23153e-05	0.999928
rad50	9.31748e-06	0.999950	1.11412e-05	0.999940
rad13	7.65186e-06	0.999957	9.14947e-06	0.999949
PAH3+H	7.15467e-06	0.999964	8.55498e-06	0.999957
PAH1+H	6.15397e-06	0.999971	7.35849e-06	0.999965
PAH10+CH3	4.17262e-06	0.999975	4.98931e-06	0.999970
rad70	4.10003e-06	0.999979	4.90250e-06	0.999974
rad67	3.57369e-06	0.999982	4.27314e-06	0.999979
rad2	2.53262e-06	0.999985	3.02832e-06	0.999982
rad55	2.21032e-06	0.999987	2.64293e-06	0.999984
rad51	2.02887e-06	0.999989	2.42598e-06	0.999987
rad60syn	1.38610e-06	0.999991	1.65739e-06	0.999988
rad36	9.52942e-07	0.999992	1.13945e-06	0.999990
rad21	8.85102e-07	0.999992	1.05834e-06	0.999991
rad59	8.70758e-07	0.999993	1.04119e-06	0.999992
rad60anti	8.09898e-07	0.999994	9.68416e-07	0.999993
rad10	7.80683e-07	0.999995	9.33481e-07	0.999994
rad52	6.78816e-07	0.999996	8.11681e-07	0.999994
rad34	6.65767e-07	0.999996	7.96079e-07	0.999995
rad62	5.97069e-07	0.999997	7.13929e-07	0.999996
rad1	5.93898e-07	0.999997	7.10140e-07	0.999997
rad22	4.67427e-07	0.999998	5.58914e-07	0.999997
rad20	4.62373e-07	0.999998	5.52871e-07	0.999998
rad26	4.02265e-07	0.999999	4.80999e-07	0.999998

rad3	2.31415e-07	0.999999	2.76709e-07	0.999999
rad33	2.21048e-07	0.999999	2.64313e-07	0.999999
rad53	1.92169e-07	0.999999	2.29780e-07	0.999999
rad4	1.80241e-07	1.000000	2.15518e-07	0.999999
rad56	1.10980e-07	1.000000	1.32701e-07	0.999999
rad43	8.78715e-08	1.000000	1.05070e-07	0.999999
rad18	6.93661e-08	1.000000	8.29428e-08	1.000000
rad71	6.03800e-08	1.000000	7.21977e-08	1.000000
rad64	6.01559e-08	1.000000	7.19296e-08	1.000000
rad65	5.55905e-08	1.000000	6.64708e-08	1.000000
rad73	4.31470e-08	1.000000	5.15919e-08	1.000000
rad25	3.25234e-08	1.000000	3.88890e-08	1.000000
rad58	2.46670e-08	1.000000	2.94949e-08	1.000000
rad42	1.85949e-08	1.000000	2.22343e-08	1.000000
rad24	1.60219e-08	1.000000	1.91578e-08	1.000000
PAH8+H	1.23465e-08	1.000000	1.47631e-08	1.000000
rad15	1.20466e-08	1.000000	1.44044e-08	1.000000
rad68syn	1.13147e-08	1.000000	1.35293e-08	1.000000
rad12	1.00082e-08	1.000000	1.19671e-08	1.000000
rad68anti	7.50998e-09	1.000000	8.97987e-09	1.000000
rad14	2.76364e-09	1.000000	3.30456e-09	1.000000
rad41	2.32293e-09	1.000000	2.77758e-09	1.000000
rad40syn	2.28770e-09	1.000000	2.73546e-09	1.000000
rad72	2.05700e-09	1.000000	2.45962e-09	1.000000
rad61	1.68677e-09	1.000000	2.01691e-09	1.000000
rad40anti	1.17860e-09	1.000000	1.40928e-09	1.000000
rad27	9.43241e-10	1.000000	1.12786e-09	1.000000
rad31	7.98309e-11	1.000000	9.54557e-11	1.000000
rad8	5.37159e-11	1.000000	6.42293e-11	1.000000
rad5	2.07390e-12	1.000000	2.47981e-12	1.000000
rad47	1.96845e-12	1.000000	2.35372e-12	1.000000

100.000000 Pa, 1300.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.54148e-12	(1.00)	2.05258e-12	(1.00)
Formation of rad11	7.22991e-13	(0.284)	5.03065e-13	(0.245)
Formation of rad6	8.84215e-13	(0.348)	6.15246e-13	(0.300)
H-abstraction	9.34273e-13	(0.368)	9.34273e-13	(0.455)
species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.367610	0.367610	0.455169	0.455169
Phenyl+Allene	0.192367	0.559977	0.000000	0.455169
Indene+H	0.129239	0.689216	0.160022	0.615191
C2H2+PhCH2	0.110158	0.799374	0.136396	0.751587
PhCHCCH2+H	0.0691114	0.868485	0.0855722	0.837159
PhCH2CCH+H	0.0637449	0.932230	0.0789285	0.916088
PhCCH+CH3	0.0457138	0.977944	0.0566019	0.972690
PAH7+H	0.00793555	0.985879	0.00982564	0.982515
Ph+MeAc	0.00632485	0.992204	0.00783134	0.990347
rad6	0.00339731	0.995601	0.00420650	0.994553
rad39	0.00157839	0.997180	0.00195433	0.996508
PhCCCH3+H	0.00139027	0.998570	0.00172141	0.998229
rad19anti	0.000478807	0.999049	0.000592852	0.998822
PAH9+H	0.000255905	0.999305	0.000316859	0.999139
rad19syn	0.000175668	0.999480	0.000217510	0.999356
rad38	0.000106676	0.999587	0.000132084	0.999488
rad54	6.29967e-05	0.999650	7.80018e-05	0.999566
PhcycC3H3_A+H	5.78455e-05	0.999708	7.16234e-05	0.999638
rad35	4.73694e-05	0.999755	5.86521e-05	0.999697
rad11	3.65310e-05	0.999792	4.52321e-05	0.999742
rad30	3.51623e-05	0.999827	4.35375e-05	0.999785
rad7	2.99739e-05	0.999857	3.71133e-05	0.999823
rad46	2.58640e-05	0.999883	3.20244e-05	0.999855
rad37	1.30563e-05	0.999896	1.61660e-05	0.999871
rad23	1.27996e-05	0.999909	1.58483e-05	0.999887
PAH1+H	1.03887e-05	0.999919	1.28632e-05	0.999899
rad50	1.01901e-05	0.999929	1.26173e-05	0.999912
PAH3+H	9.45455e-06	0.999939	1.17064e-05	0.999924
rad9	8.10130e-06	0.999947	1.00309e-05	0.999934
rad28	6.62764e-06	0.999953	8.20624e-06	0.999942
rad70	6.46562e-06	0.999960	8.00569e-06	0.999950
PAH10+CH3	6.29315e-06	0.999966	7.79211e-06	0.999958
rad45	5.76481e-06	0.999972	7.13788e-06	0.999965
rad67	5.43233e-06	0.999977	6.72626e-06	0.999972
rad13	5.36896e-06	0.999983	6.64775e-06	0.999978
rad55	3.65306e-06	0.999986	4.52317e-06	0.999983
rad51	1.88030e-06	0.999988	2.32816e-06	0.999985

rad60syn	1.57080e-06	0.999990	1.94494e-06	0.999987
rad34	1.14190e-06	0.999991	1.41388e-06	0.999988
rad59	1.11062e-06	0.999992	1.37515e-06	0.999990
rad2	9.50691e-07	0.999993	1.17713e-06	0.999991
rad60anti	9.28621e-07	0.999994	1.14981e-06	0.999992
rad62	8.31504e-07	0.999995	1.02956e-06	0.999993
rad52	6.92088e-07	0.999996	8.56931e-07	0.999994
rad21	5.94390e-07	0.999996	7.35963e-07	0.999995
rad10	5.75641e-07	0.999997	7.12753e-07	0.999996
rad36	5.38230e-07	0.999997	6.66426e-07	0.999996
rad53	4.06103e-07	0.999998	5.02831e-07	0.999997
rad22	3.12902e-07	0.999998	3.87431e-07	0.999997
rad20	2.77937e-07	0.999998	3.44137e-07	0.999997
rad56	2.67177e-07	0.999999	3.30815e-07	0.999998
rad1	2.26599e-07	0.999999	2.80571e-07	0.999998
rad26	2.08813e-07	0.999999	2.58550e-07	0.999998
rad33	1.48292e-07	0.999999	1.83613e-07	0.999998
rad64	1.15243e-07	0.999999	1.42692e-07	0.999999
rad3	1.01672e-07	0.999999	1.25889e-07	0.999999
rad43	9.39447e-08	0.999999	1.16321e-07	0.999999
rad4	7.98241e-08	1.000000	9.88372e-08	0.999999
rad18	6.58059e-08	1.000000	8.14800e-08	0.999999
rad65	5.38550e-08	1.000000	6.66824e-08	0.999999
rad58	3.90170e-08	1.000000	4.83102e-08	0.999999
rad71	3.70040e-08	1.000000	4.58177e-08	0.999999
PAH8+H	3.25874e-08	1.000000	4.03492e-08	0.999999
rad42	3.12441e-08	1.000000	3.86860e-08	0.999999
rad73	2.76946e-08	1.000000	3.42910e-08	0.999999
rad25	2.67940e-08	1.000000	3.31759e-08	0.999999
rad68syn	2.56948e-08	1.000000	3.18149e-08	0.999999
rad15	2.03796e-08	1.000000	2.52337e-08	0.999999
rad68anti	1.69943e-08	1.000000	2.10421e-08	0.999999
rad24	1.18593e-08	1.000000	1.46840e-08	0.999999
rad12	9.08220e-09	1.000000	1.12455e-08	0.999999
rad40syn	5.61419e-09	1.000000	6.95138e-09	0.999999
rad40anti	2.87389e-09	1.000000	3.55841e-09	0.999999
rad61	2.81289e-09	1.000000	3.48288e-09	0.999999
rad41	2.56368e-09	1.000000	3.17431e-09	0.999999
rad14	1.87503e-09	1.000000	2.32164e-09	0.999999
rad72	1.19948e-09	1.000000	1.48518e-09	0.999999
rad27	4.91897e-10	1.000000	6.09061e-10	0.999999
rad8	7.91474e-11	1.000000	9.79987e-11	0.999999
rad31	5.19128e-11	1.000000	6.42775e-11	0.999999
rad5	2.27259e-12	1.000000	2.81390e-12	0.999999
rad47	1.61663e-12	1.000000	2.00169e-12	0.999999

100.000000 Pa, 1400.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.47024e-12 (1.00)	2.71853e-12 (1.00)
Formation of rad11	9.43269e-13 (0.272)	6.11187e-13 (0.225)
Formation of rad6	1.19194e-12 (0.343)	7.72309e-13 (0.284)
H-abstraction	1.33503e-12 (0.385)	1.33503e-12 (0.491)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.491086	0.491086
Phenyl+Allene	0.216616	0.601325	0.00000	0.491086
Indene+H	0.101481	0.702806	0.129542	0.620628
C2H2+PhCH2	0.0932917	0.796098	0.119088	0.739717
PhCH2CCH+H	0.0731649	0.869263	0.0933964	0.833113
PhCHCCH2+H	0.0703647	0.939628	0.0898212	0.922934
PhCCH+CH3	0.0405006	0.980128	0.0516995	0.974634
PAH7+H	0.00807686	0.988205	0.0103102	0.984944
Ph+MeAc	0.00575352	0.993959	0.00734444	0.992288
rad6	0.00181490	0.995774	0.00231674	0.994605
rad39	0.00153672	0.997310	0.00196164	0.996567
PhCCCH3+H	0.00103074	0.998341	0.00131575	0.997883
rad19anti	0.000539411	0.998880	0.000688565	0.998571
PAH9+H	0.000282642	0.999163	0.000360796	0.998932
rad19syn	0.000242342	0.999405	0.000309352	0.999241
rad38	0.000119355	0.999525	0.000152359	0.999394
PhcycC3H3_A+H	9.33587e-05	0.999618	0.000119173	0.999513
rad54	9.06816e-05	0.999709	0.000115757	0.999629
rad35	5.16891e-05	0.999760	6.59817e-05	0.999694
rad30	3.26785e-05	0.999793	4.17146e-05	0.999736
rad46	3.03892e-05	0.999824	3.87923e-05	0.999775
rad11	2.61765e-05	0.999850	3.34147e-05	0.999808
rad7	2.48193e-05	0.999875	3.16822e-05	0.999840

PAH1+H	1.61141e-05	0.999891	2.05698e-05	0.999861
rad37	1.44168e-05	0.999905	1.84032e-05	0.999879
rad50	1.29223e-05	0.999918	1.64954e-05	0.999896
PAH3+H	1.19326e-05	0.999930	1.52322e-05	0.999911
rad70	9.37008e-06	0.999939	1.19611e-05	0.999923
PAH10+CH3	9.16162e-06	0.999948	1.16949e-05	0.999934
rad23	8.01644e-06	0.999956	1.02331e-05	0.999945
rad67	7.98106e-06	0.999964	1.01879e-05	0.999955
rad55	5.57253e-06	0.999970	7.11339e-06	0.999962
rad9	5.35717e-06	0.999975	6.83848e-06	0.999969
rad28	3.76308e-06	0.999979	4.80363e-06	0.999974
rad13	3.28757e-06	0.999982	4.19662e-06	0.999978
rad45	3.23398e-06	0.999986	4.12822e-06	0.999982
rad51	2.30195e-06	0.999988	2.93846e-06	0.999985
rad34	1.78346e-06	0.999990	2.27661e-06	0.999987
rad60syn	1.71693e-06	0.999991	2.19168e-06	0.999989
rad59	1.35272e-06	0.999993	1.72677e-06	0.999991
rad62	1.09812e-06	0.999994	1.40177e-06	0.999992
rad60anti	1.02594e-06	0.999995	1.30963e-06	0.999994
rad52	8.74390e-07	0.999996	1.11617e-06	0.999995
rad53	7.68585e-07	0.999997	9.81104e-07	0.999996
rad56	5.65906e-07	0.999997	7.22388e-07	0.999997
rad21	3.82298e-07	0.999998	4.88008e-07	0.999997
rad2	3.58861e-07	0.999998	4.58091e-07	0.999998
rad10	3.23623e-07	0.999998	4.13109e-07	0.999998
rad36	3.04716e-07	0.999999	3.88974e-07	0.999998
rad22	2.32498e-07	0.999999	2.96787e-07	0.999999
rad64	1.99497e-07	0.999999	2.54661e-07	0.999999
rad20	1.59749e-07	0.999999	2.03922e-07	0.999999
rad26	1.20931e-07	0.999999	1.54370e-07	0.999999
rad43	1.01924e-07	0.999999	1.30108e-07	0.999999
rad33	9.63995e-08	0.999999	1.23055e-07	1.000000
rad1	8.65382e-08	1.000000	1.10467e-07	1.000000
PAH8+H	7.83862e-08	1.000000	1.00061e-07	1.000000
rad65	6.78217e-08	1.000000	8.65754e-08	1.000000
rad58	5.90363e-08	1.000000	7.53605e-08	1.000000
rad68syn	5.15788e-08	1.000000	6.58412e-08	1.000000
rad18	4.95739e-08	1.000000	6.32819e-08	1.000000
rad42	4.88790e-08	1.000000	6.23949e-08	1.000000
rad3	4.59067e-08	1.000000	5.86004e-08	1.000000
rad4	3.62709e-08	1.000000	4.63003e-08	1.000000
rad68anti	3.40015e-08	1.000000	4.34035e-08	1.000000
rad15	3.38118e-08	1.000000	4.31613e-08	1.000000
rad71	2.85446e-08	1.000000	3.64376e-08	1.000000
rad73	2.36891e-08	1.000000	3.02396e-08	1.000000
rad25	1.96461e-08	1.000000	2.50786e-08	1.000000
rad40syn	1.25156e-08	1.000000	1.59764e-08	1.000000
rad24	8.54738e-09	1.000000	1.09109e-08	1.000000
rad12	7.78466e-09	1.000000	9.93725e-09	1.000000
rad40anti	6.56959e-09	1.000000	8.38619e-09	1.000000
rad61	5.22664e-09	1.000000	6.67186e-09	1.000000
rad41	3.24927e-09	1.000000	4.14773e-09	1.000000
rad14	1.16105e-09	1.000000	1.48210e-09	1.000000
rad72	7.90674e-10	1.000000	1.00930e-09	1.000000
rad27	2.39096e-10	1.000000	3.05209e-10	1.000000
rad8	9.32627e-11	1.000000	1.19052e-10	1.000000
rad31	3.43905e-11	1.000000	4.38999e-11	1.000000
rad5	2.88806e-12	1.000000	3.68665e-12	1.000000
rad47	1.81887e-12	1.000000	2.32182e-12	1.000000

100.000000 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.61271e-12 (1.00)	3.52203e-12 (1.00)
Formation of rad11	1.20217e-12 (0.261)	7.28094e-13 (0.207)
Formation of rad6	1.56360e-12 (0.339)	9.46993e-13 (0.269)
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.524)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.524397	0.524397
Phenyl+Allene	0.236452	0.636854	0.000000	0.524397
PhCH2CCH+H	0.0807208	0.717575	0.105718	0.630115
Indene+H	0.0798268	0.797402	0.104547	0.734662
C2H2+PhCH2	0.0781702	0.875572	0.102377	0.837039
PhCHCCH2+H	0.0700840	0.945656	0.0917871	0.928826
PhCCH+CH3	0.0357471	0.981403	0.0468170	0.975644
PAH7+H	0.00804756	0.989451	0.0105397	0.986183
Ph+MeAc	0.00523967	0.994690	0.00686229	0.993046

rad39	0.00146275	0.996153	0.00191573	0.994961
rad6	0.00116553	0.997319	0.00152647	0.996488
PhCCCH3+H	0.000774488	0.998093	0.00101432	0.997502
rad19anti	0.000583807	0.998677	0.000764598	0.998267
rad19syn	0.000318116	0.998995	0.000416628	0.998683
PAH9+H	0.000306929	0.999302	0.000401976	0.999085
PhcycC3H3_A+H	0.000140786	0.999443	0.000184383	0.999270
rad38	0.000131541	0.999574	0.000172276	0.999442
rad54	0.000123386	0.999698	0.000161596	0.999604
rad35	5.55564e-05	0.999753	7.27606e-05	0.999676
rad46	3.53237e-05	0.999789	4.62625e-05	0.999723
rad30	3.00228e-05	0.999819	3.93201e-05	0.999762
PAH1+H	2.33294e-05	0.999842	3.05539e-05	0.999792
rad7	1.71802e-05	0.999859	2.25005e-05	0.999815
rad50	1.71590e-05	0.999876	2.24727e-05	0.999837
rad11	1.63646e-05	0.999893	2.14322e-05	0.999859
rad37	1.56684e-05	0.999908	2.05205e-05	0.999879
PAH3+H	1.45221e-05	0.999923	1.90192e-05	0.999898
PAH10+CH3	1.27075e-05	0.999936	1.66427e-05	0.999915
rad70	1.27016e-05	0.999948	1.66349e-05	0.999932
rad67	1.11749e-05	0.999959	1.46355e-05	0.999946
rad55	7.97609e-06	0.999967	1.04460e-05	0.999957
rad23	5.47674e-06	0.999973	7.17276e-06	0.999964
rad9	3.48867e-06	0.999976	4.56902e-06	0.999968
rad51	3.24801e-06	0.999980	4.25385e-06	0.999973
rad34	2.58469e-06	0.999982	3.38510e-06	0.999976
rad28	2.53823e-06	0.999985	3.32426e-06	0.999979
rad13	1.95146e-06	0.999987	2.55578e-06	0.999982
rad45	1.83694e-06	0.999989	2.40579e-06	0.999984
rad60syn	1.83064e-06	0.999990	2.39754e-06	0.999987
rad59	1.59073e-06	0.999992	2.08334e-06	0.999989
rad62	1.39306e-06	0.999993	1.82446e-06	0.999991
rad53	1.33002e-06	0.999995	1.74189e-06	0.999992
rad52	1.20365e-06	0.999996	1.57639e-06	0.999994
rad60anti	1.10460e-06	0.999997	1.44666e-06	0.999995
rad56	1.07923e-06	0.999998	1.41345e-06	0.999997
rad64	3.17185e-07	0.999998	4.15409e-07	0.999997
rad21	2.43573e-07	0.999999	3.19001e-07	0.999998
rad22	1.97398e-07	0.999999	2.58527e-07	0.999998
rad36	1.74675e-07	0.999999	2.28767e-07	0.999998
PAH8+H	1.67403e-07	0.999999	2.19244e-07	0.999998
rad10	1.50593e-07	0.999999	1.97227e-07	0.999999
rad2	1.38949e-07	0.999999	1.81978e-07	0.999999
rad43	1.10448e-07	1.000000	1.44651e-07	0.999999
rad65	9.62264e-08	1.000000	1.26025e-07	0.999999
rad68syn	9.32842e-08	1.000000	1.22172e-07	0.999999
rad20	9.14219e-08	1.000000	1.19733e-07	0.999999
rad58	8.49450e-08	1.000000	1.11251e-07	0.999999
rad26	7.53083e-08	1.000000	9.86296e-08	0.999999
rad42	7.20842e-08	1.000000	9.44072e-08	1.000000
rad33	6.26682e-08	1.000000	8.20753e-08	1.000000
rad68anti	6.13143e-08	1.000000	8.03018e-08	1.000000
rad15	4.26211e-08	1.000000	5.58196e-08	1.000000
rad71	3.45982e-08	1.000000	4.53123e-08	1.000000
rad1	3.38308e-08	1.000000	4.43074e-08	1.000000
rad18	3.13961e-08	1.000000	4.11186e-08	1.000000
rad73	3.10656e-08	1.000000	4.06857e-08	1.000000
rad40syn	2.49641e-08	1.000000	3.26948e-08	1.000000
rad3	2.15859e-08	1.000000	2.82705e-08	1.000000
rad4	1.71423e-08	1.000000	2.24508e-08	1.000000
rad25	1.39055e-08	1.000000	1.82116e-08	1.000000
rad40anti	1.34603e-08	1.000000	1.76287e-08	1.000000
rad61	9.35426e-09	1.000000	1.22511e-08	1.000000
rad12	6.44807e-09	1.000000	8.44490e-09	1.000000
rad24	6.11080e-09	1.000000	8.00316e-09	1.000000
rad41	4.22655e-09	1.000000	5.53540e-09	1.000000
rad72	7.85107e-10	1.000000	1.02823e-09	1.000000
rad14	7.21346e-10	1.000000	9.44728e-10	1.000000
rad27	1.18578e-10	1.000000	1.55298e-10	1.000000
rad8	9.83016e-11	1.000000	1.28743e-10	1.000000
rad31	2.33937e-11	1.000000	3.06382e-11	1.000000
rad5	3.90083e-12	1.000000	5.10883e-12	1.000000
rad47	2.47069e-12	1.000000	3.23580e-12	1.000000

100.000000 Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.27166e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.05139e-12 (0.168)

Formation of rad6	2.80256e-12 (0.325)	1.44430e-12 (0.230)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.602)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.602070	0.602070
Phenyl+Allene	0.272319	0.710434	0.000000	0.602070
PhCH2CCH+H	0.0933320	0.803765	0.128260	0.730329
PhCHCCH2+H	0.0655524	0.869318	0.0900835	0.820413
C2H2+PhCH2	0.0473597	0.916678	0.0650831	0.885496
Indene+H	0.0392272	0.955905	0.0539072	0.939403
PhCCH+CH3	0.0275609	0.983466	0.0378749	0.977278
PAH7+H	0.00712465	0.990590	0.00979092	0.987069
Ph+MeAc	0.00487641	0.995467	0.00670131	0.993770
rad39	0.00123414	0.996701	0.00169599	0.995466
rad19anti	0.000563228	0.997264	0.000774003	0.996240
rad19syn	0.000510819	0.997775	0.000701981	0.996942
PhCCCH3+H	0.000457458	0.998232	0.000628651	0.997571
rad6	0.000430383	0.998663	0.000591444	0.998162
PhcycC3H3_A+H	0.000362255	0.999025	0.000497823	0.998660
PAH9+H	0.000269333	0.999294	0.000370125	0.999030
rad54	0.000216490	0.999511	0.000297508	0.999328
rad38	0.000145024	0.999656	0.000199296	0.999527
rad35	4.91776e-05	0.999705	6.75813e-05	0.999595
PAH1+H	4.29895e-05	0.999748	5.90772e-05	0.999654
rad46	3.90209e-05	0.999787	5.36235e-05	0.999707
rad50	2.72495e-05	0.999814	3.74471e-05	0.999745
rad30	2.29650e-05	0.999837	3.15592e-05	0.999776
PAH10+CH3	2.25251e-05	0.999860	3.09547e-05	0.999807
rad70	2.21231e-05	0.999882	3.04022e-05	0.999838
PAH3+H	2.09391e-05	0.999903	2.87750e-05	0.999867
rad55	1.73528e-05	0.999920	2.38467e-05	0.999890
rad67	1.70911e-05	0.999937	2.34871e-05	0.999914
rad37	1.61700e-05	0.999953	2.22213e-05	0.999936
rad51	8.76159e-06	0.999962	1.20404e-05	0.999948
rad34	5.28466e-06	0.999967	7.26231e-06	0.999955
rad53	4.48946e-06	0.999972	6.16955e-06	0.999962
rad56	4.12459e-06	0.999976	5.66812e-06	0.999967
rad52	2.49092e-06	0.999979	3.42309e-06	0.999971
rad7	2.39960e-06	0.999981	3.29761e-06	0.999974
rad62	2.37934e-06	0.999983	3.26975e-06	0.999977
rad71	2.36043e-06	0.999986	3.24377e-06	0.999980
rad59	2.07385e-06	0.999988	2.84994e-06	0.999983
rad60syn	1.94552e-06	0.999990	2.67359e-06	0.999986
rad11	1.78419e-06	0.999991	2.45189e-06	0.999988
rad23	1.33178e-06	0.999993	1.83017e-06	0.999990
rad60anti	1.30934e-06	0.999994	1.79933e-06	0.999992
rad28	1.09669e-06	0.999995	1.50710e-06	0.999994
rad64	8.03951e-07	0.999996	1.10481e-06	0.999995
rad73	8.02013e-07	0.999997	1.10215e-06	0.999996
PAH8+H	6.47483e-07	0.999997	8.89788e-07	0.999997
rad72	4.30390e-07	0.999998	5.91456e-07	0.999997
rad68syn	2.88474e-07	0.999998	3.96429e-07	0.999998
rad9	2.36118e-07	0.999998	3.24480e-07	0.999998
rad65	2.17955e-07	0.999999	2.99520e-07	0.999998
rad68anti	1.86858e-07	0.999999	2.56785e-07	0.999999
rad42	1.74803e-07	0.999999	2.40219e-07	0.999999
rad58	1.60680e-07	0.999999	2.20810e-07	0.999999
rad13	1.59289e-07	0.999999	2.18900e-07	0.999999
rad45	1.38164e-07	0.999999	1.89869e-07	0.999999
rad43	1.32528e-07	1.000000	1.82124e-07	1.000000
rad22	1.22881e-07	1.000000	1.68867e-07	1.000000
rad40syn	8.82801e-08	1.000000	1.21317e-07	1.000000
rad40anti	5.34220e-08	1.000000	7.34142e-08	1.000000
rad61	2.84796e-08	1.000000	3.91374e-08	1.000000
rad36	2.35201e-08	1.000000	3.23221e-08	1.000000
rad21	1.96313e-08	1.000000	2.69779e-08	1.000000
rad26	1.83656e-08	1.000000	2.52385e-08	1.000000
rad15	1.16556e-08	1.000000	1.60175e-08	1.000000
rad10	9.18323e-09	1.000000	1.26198e-08	1.000000
rad41	8.16498e-09	1.000000	1.12206e-08	1.000000
rad20	6.44466e-09	1.000000	8.85642e-09	1.000000
rad33	5.46892e-09	1.000000	7.51555e-09	1.000000
rad2	3.30661e-09	1.000000	4.54405e-09	1.000000
rad18	3.14651e-09	1.000000	4.32403e-09	1.000000
rad25	1.42413e-09	1.000000	1.95708e-09	1.000000
rad1	8.70349e-10	1.000000	1.19606e-09	1.000000
rad12	7.41470e-10	1.000000	1.01894e-09	1.000000
rad3	6.65306e-10	1.000000	9.14281e-10	1.000000
rad24	6.00942e-10	1.000000	8.25829e-10	1.000000

rad4	4.24069e-10	1.000000	5.82769e-10	1.00000
rad14	7.55455e-11	1.000000	1.03816e-10	1.00000
rad8	2.76912e-11	1.000000	3.80540e-11	1.00000
rad5	7.16662e-12	1.000000	9.84858e-12	1.00000
rad27	6.81556e-12	1.000000	9.36609e-12	1.00000
rad47	2.39665e-12	1.000000	3.29355e-12	1.00000

100.000000 Pa, 2000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.44111e-11 (1.00)	1.02912e-11 (1.00)
Formation of rad11	3.16882e-12 (0.220)	1.47376e-12 (0.143)
Formation of rad6	4.53302e-12 (0.315)	2.10823e-12 (0.205)
H-abstraction	6.70922e-12 (0.466)	6.70922e-12 (0.652)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.651937	0.651937
Phenyl+Allene	0.285881	0.751442	0.000000	0.651937
PhCH2CCH+H	0.0971526	0.848594	0.136045	0.787982
PhCHCCH2+H	0.0592651	0.907859	0.0829904	0.870972
C2H2+PhCH2	0.0319400	0.939799	0.0447265	0.915699
Indene+H	0.0232389	0.963038	0.0325420	0.948241
PhCCH+CH3	0.0216219	0.984660	0.0302777	0.978518
PAH7+H	0.00659167	0.991252	0.00923053	0.987749
Ph+MeAc	0.00420734	0.995459	0.00589166	0.993641
rad39	0.00101457	0.996474	0.00142073	0.995061
rad19syn	0.000749525	0.997223	0.00104958	0.996111
PhcycC3H3_A+H	0.000662182	0.997885	0.000927275	0.997038
rad19anti	0.000528706	0.998414	0.000740362	0.997779
rad54	0.000331163	0.998745	0.000463738	0.998242
PhCCCH3+H	0.000291189	0.999036	0.000407759	0.998650
PAH9+H	0.000280352	0.999317	0.000392584	0.999043
rad38	0.000157049	0.999474	0.000219921	0.999263
rad6	7.01725e-05	0.999544	9.82648e-05	0.999361
PAH1+H	7.01474e-05	0.999614	9.82297e-05	0.999459
rad35	5.19621e-05	0.999666	7.27640e-05	0.999532
rad46	4.60538e-05	0.999712	6.44905e-05	0.999596
rad50	3.98274e-05	0.999752	5.57712e-05	0.999652
PAH10+CH3	3.35617e-05	0.999786	4.69972e-05	0.999699
rad70	3.20388e-05	0.999818	4.48646e-05	0.999744
rad55	2.87973e-05	0.999846	4.03255e-05	0.999784
PAH3+H	2.79544e-05	0.999874	3.91453e-05	0.999823
rad67	2.52107e-05	0.999900	3.53033e-05	0.999859
rad30	1.88754e-05	0.999918	2.64317e-05	0.999885
rad37	1.66056e-05	0.999935	2.32533e-05	0.999908
rad51	1.31519e-05	0.999948	1.84170e-05	0.999927
rad56	1.05119e-05	0.999959	1.47201e-05	0.999942
rad53	1.00221e-05	0.999969	1.40342e-05	0.999956
rad34	8.57402e-06	0.999977	1.20064e-05	0.999968
rad52	3.78895e-06	0.999981	5.30577e-06	0.999973
rad62	3.44934e-06	0.999985	4.83021e-06	0.999978
rad59	2.59023e-06	0.999987	3.62717e-06	0.999981
rad60syn	2.06912e-06	0.999989	2.89744e-06	0.999984
PAH8+H	1.84993e-06	0.999991	2.59051e-06	0.999987
rad64	1.48748e-06	0.999993	2.08296e-06	0.999989
rad60anti	1.42269e-06	0.999994	1.99223e-06	0.999991
rad71	1.21198e-06	0.999995	1.69716e-06	0.999993
rad68syn	6.57719e-07	0.999996	9.21024e-07	0.999994
rad73	5.63764e-07	0.999996	7.89456e-07	0.999994
rad7	5.39415e-07	0.999997	7.55356e-07	0.999995
rad23	4.78995e-07	0.999997	6.70749e-07	0.999996
rad68anti	4.24225e-07	0.999998	5.94053e-07	0.999996
rad11	4.21845e-07	0.999998	5.90719e-07	0.999997
rad65	3.54045e-07	0.999999	4.95778e-07	0.999997
rad42	3.20399e-07	0.999999	4.48664e-07	0.999998
rad58	2.77126e-07	0.999999	3.88066e-07	0.999998
rad28	2.48627e-07	1.000000	3.48161e-07	0.999999
rad40syn	2.30196e-07	1.000000	3.22350e-07	0.999999
rad43	1.63373e-07	1.000000	2.28776e-07	0.999999
rad72	1.56544e-07	1.000000	2.19213e-07	0.999999
rad40anti	1.44746e-07	1.000000	2.02692e-07	1.000000
rad9	8.14128e-08	1.000000	1.14004e-07	1.000000
rad61	6.08812e-08	1.000000	8.52535e-08	1.000000
rad13	4.90230e-08	1.000000	6.86481e-08	1.000000
rad45	4.24330e-08	1.000000	5.94199e-08	1.000000
rad22	3.08768e-08	1.000000	4.32378e-08	1.000000
rad41	1.36976e-08	1.000000	1.91811e-08	1.000000
rad36	7.38638e-09	1.000000	1.03434e-08	1.000000

rad21	7.16844e-09	1.00000	1.00382e-08	1.00000
rad15	4.11073e-09	1.00000	5.75637e-09	1.00000
rad26	3.56820e-09	1.00000	4.99665e-09	1.00000
rad33	2.25604e-09	1.00000	3.15919e-09	1.00000
rad20	1.92096e-09	1.00000	2.68997e-09	1.00000
rad10	1.29068e-09	1.00000	1.80738e-09	1.00000
rad18	7.02382e-10	1.00000	9.83560e-10	1.00000
rad25	5.81171e-10	1.00000	8.13827e-10	1.00000
rad2	4.50579e-10	1.00000	6.30958e-10	1.00000
rad12	4.13614e-10	1.00000	5.79194e-10	1.00000
rad24	2.84128e-10	1.00000	3.97871e-10	1.00000
rad3	1.69077e-10	1.00000	2.36764e-10	1.00000
rad1	1.22019e-10	1.00000	1.70866e-10	1.00000
rad4	1.07110e-10	1.00000	1.49989e-10	1.00000
rad14	2.94342e-11	1.00000	4.12173e-11	1.00000
rad8	2.35103e-11	1.00000	3.29221e-11	1.00000
rad5	4.13455e-12	1.00000	5.78972e-12	1.00000
rad47	3.14950e-12	1.00000	4.41034e-12	1.00000
rad27	1.90894e-12	1.00000	2.67315e-12	1.00000

100.000000 Pa, 2250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.23655e-11 (1.00)	1.58430e-11 (1.00)
Formation of rad11	4.62280e-12 (0.207)	1.98898e-12 (0.126)
Formation of rad6	6.82518e-12 (0.305)	2.93657e-12 (0.185)
H-abstraction	1.09175e-11 (0.488)	1.09175e-11 (0.689)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.689103	0.689103
Phenyl+Allene	0.291630	0.779770	0.000000	0.689103
PhCH2CCH+H	0.0967308	0.876501	0.136554	0.825657
PhCCCH2+H	0.0532652	0.929766	0.0751939	0.900851
C2H2+PhCH2	0.0232543	0.953020	0.0328279	0.933679
PhCCH+CH3	0.0176436	0.970664	0.0249073	0.958586
Indene+H	0.0145256	0.985189	0.0205056	0.979092
PAH7+H	0.00604266	0.991232	0.00853036	0.987622
Ph+MeAc	0.00373437	0.994966	0.00527179	0.992894
PhcycC3H3_A+H	0.00104658	0.996013	0.00147746	0.994371
rad19syn	0.000993540	0.997006	0.00140257	0.995774
rad39	0.000833753	0.997840	0.00117700	0.996951
rad19anti	0.000463328	0.998303	0.000654078	0.997605
rad54	0.000448712	0.998752	0.000633443	0.998238
PAH9+H	0.000276296	0.999028	0.000390045	0.998628
PhCCCH3+H	0.000209541	0.999238	0.000295807	0.998924
rad38	0.000160908	0.999399	0.000227153	0.999151
PAH1+H	9.97789e-05	0.999499	0.000140857	0.999292
rad50	5.50080e-05	0.999554	7.76543e-05	0.999370
rad35	5.25306e-05	0.999606	7.41573e-05	0.999444
rad46	5.07967e-05	0.999657	7.17093e-05	0.999516
PAH10+CH3	4.32536e-05	0.999700	6.10608e-05	0.999577
rad55	4.15801e-05	0.999742	5.86983e-05	0.999636
rad70	4.13306e-05	0.999783	5.83460e-05	0.999694
PAH3+H	3.54445e-05	0.999818	5.00367e-05	0.999744
rad67	3.21854e-05	0.999851	4.54360e-05	0.999789
rad56	2.11749e-05	0.999872	2.98924e-05	0.999819
rad51	2.08379e-05	0.999893	2.94166e-05	0.999849
rad53	1.82702e-05	0.999911	2.57918e-05	0.999875
rad30	1.61738e-05	0.999927	2.28325e-05	0.999897
rad37	1.58069e-05	0.999943	2.23145e-05	0.999920
rad6	1.32663e-05	0.999956	1.87280e-05	0.999938
rad34	1.21417e-05	0.999968	1.71404e-05	0.999956
rad52	5.58956e-06	0.999974	7.89075e-06	0.999963
rad62	4.55847e-06	0.999978	6.43516e-06	0.999970
PAH8+H	4.27932e-06	0.999983	6.04107e-06	0.999976
rad59	3.10237e-06	0.999986	4.37958e-06	0.999980
rad64	2.31866e-06	0.999988	3.27325e-06	0.999984
rad60syn	2.18375e-06	0.999990	3.08278e-06	0.999987
rad71	1.68870e-06	0.999992	2.38393e-06	0.999989
rad60anti	1.52782e-06	0.999994	2.15681e-06	0.999991
rad68syn	1.22984e-06	0.999995	1.73615e-06	0.999993
rad73	9.35536e-07	0.999996	1.32069e-06	0.999994
rad68anti	7.90644e-07	0.999997	1.11615e-06	0.999995
rad65	5.51130e-07	0.999997	7.78026e-07	0.999996
rad42	5.02255e-07	0.999998	7.09029e-07	0.999997
rad40syn	4.84752e-07	0.999998	6.84319e-07	0.999998
rad58	4.30838e-07	0.999999	6.08211e-07	0.999998
rad40anti	3.16249e-07	0.999999	4.46445e-07	0.999999

rad43	2.01715e-07	0.999999	2.84760e-07	0.999999
rad7	1.73398e-07	0.999999	2.44784e-07	0.999999
rad11	1.32309e-07	0.999999	1.86780e-07	0.999999
rad72	1.28453e-07	0.999999	1.81336e-07	0.999999
rad23	1.11788e-07	1.000000	1.57810e-07	1.000000
rad61	1.07144e-07	1.000000	1.51254e-07	1.000000
rad28	4.82901e-08	1.000000	6.81707e-08	1.000000
rad9	2.97700e-08	1.000000	4.20261e-08	1.000000
rad41	2.13010e-08	1.000000	3.00705e-08	1.000000
rad13	1.84116e-08	1.000000	2.59916e-08	1.000000
rad45	1.47827e-08	1.000000	2.08686e-08	1.000000
rad22	7.48477e-09	1.000000	1.05662e-08	1.000000
rad21	2.99285e-09	1.000000	4.22500e-09	1.000000
rad36	2.62322e-09	1.000000	3.70316e-09	1.000000
rad15	1.65393e-09	1.000000	2.33485e-09	1.000000
rad33	1.06607e-09	1.000000	1.50496e-09	1.000000
rad26	9.22873e-10	1.000000	1.30281e-09	1.000000
rad20	6.91548e-10	1.000000	9.76251e-10	1.000000
rad10	3.37673e-10	1.000000	4.76689e-10	1.000000
rad25	2.69675e-10	1.000000	3.80697e-10	1.000000
rad12	2.31619e-10	1.000000	3.26974e-10	1.000000
rad18	2.16462e-10	1.000000	3.05577e-10	1.000000
rad24	1.45495e-10	1.000000	2.05394e-10	1.000000
rad2	8.98780e-11	1.000000	1.26880e-10	1.000000
rad3	5.52804e-11	1.000000	7.80389e-11	1.000000
rad4	3.44365e-11	1.000000	4.86137e-11	1.000000
rad1	2.44773e-11	1.000000	3.45543e-11	1.000000
rad8	2.01774e-11	1.000000	2.84842e-11	1.000000
rad14	1.42004e-11	1.000000	2.00465e-11	1.000000
rad47	4.81237e-12	1.000000	6.79360e-12	1.000000
rad5	2.31066e-12	1.000000	3.26193e-12	1.000000
rad27	7.45770e-13	1.000000	1.05280e-12	1.000000

100.000000 Pa, 2500.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.28090e-11	(1.00)	2.31978e-11	(1.00)
Formation of rad11	6.43164e-12	(0.196)	2.60898e-12	(0.112)
Formation of rad6	9.73932e-12	(0.297)	3.95073e-12	(0.170)
H-abstraction	1.66381e-11	(0.507)	1.66381e-11	(0.717)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.717227	0.717227
Phenyl+Allene	0.292945	0.800064	0.000000	0.717227
PhCH2CCH+H	0.0943922	0.894456	0.133501	0.850727
PhCHCCH2+H	0.0481916	0.942647	0.0681583	0.918886
C2H2+PhCH2	0.0183481	0.960996	0.0259500	0.944836
PhCCH+CH3	0.0148739	0.975869	0.0210363	0.965872
Indene+H	0.00953060	0.985400	0.0134793	0.979351
PAH7+H	0.00553023	0.990930	0.00782149	0.987173
Ph+MeAc	0.00339473	0.994325	0.00480124	0.991974
PhcycC3H3_A+H	0.00149381	0.995819	0.00211272	0.994087
rad19syn	0.00122645	0.997045	0.00173459	0.995821
rad39	0.000692523	0.997738	0.000979445	0.996801
rad54	0.000558371	0.998296	0.000789710	0.997590
rad19anti	0.000392474	0.998689	0.000555081	0.998145
PAH9+H	0.000261472	0.998950	0.000369803	0.998515
PhCCCH3+H	0.000164569	0.999115	0.000232752	0.998748
rad38	0.000157854	0.999272	0.000223255	0.998971
PAH1+H	0.000129679	0.999402	0.000183407	0.999155
rad50	6.96786e-05	0.999472	9.85474e-05	0.999253
rad55	5.44772e-05	0.999526	7.70484e-05	0.999330
rad46	5.29907e-05	0.999579	7.49454e-05	0.999405
rad35	5.14194e-05	0.999631	7.27231e-05	0.999478
PAH10+CH3	5.04435e-05	0.999681	7.13429e-05	0.999549
rad70	4.95247e-05	0.999731	7.00436e-05	0.999619
PAH3+H	4.31675e-05	0.999774	6.10525e-05	0.999680
rad67	3.73923e-05	0.999811	5.28846e-05	0.999733
rad56	3.65372e-05	0.999848	5.16752e-05	0.999785
rad51	3.00520e-05	0.999878	4.25031e-05	0.999827
rad53	2.90356e-05	0.999907	4.10655e-05	0.999869
rad34	1.57220e-05	0.999923	2.22359e-05	0.999891
rad30	1.43448e-05	0.999937	2.02881e-05	0.999911
rad37	1.43008e-05	0.999951	2.02259e-05	0.999931
PAH8+H	8.33443e-06	0.999960	1.17875e-05	0.999943
rad52	7.49584e-06	0.999967	1.06015e-05	0.999954
rad62	5.70850e-06	0.999973	8.07361e-06	0.999962
rad59	3.60051e-06	0.999976	5.09227e-06	0.999967

rad6	3.59307e-06	0.999980	5.08175e-06	0.999972
rad71	3.31813e-06	0.999983	4.69288e-06	0.999977
rad64	3.22292e-06	0.999987	4.55822e-06	0.999981
rad60syn	2.29256e-06	0.999989	3.24239e-06	0.999984
rad68syn	1.99972e-06	0.999991	2.82824e-06	0.999987
rad73	1.76263e-06	0.999993	2.49292e-06	0.999990
rad60anti	1.62679e-06	0.999994	2.30079e-06	0.999992
rad68anti	1.28239e-06	0.999995	1.81371e-06	0.999994
rad40syn	8.70838e-07	0.999996	1.23164e-06	0.999995
rad65	7.68693e-07	0.999997	1.08717e-06	0.999996
rad42	7.26897e-07	0.999998	1.02807e-06	0.999997
rad58	6.16959e-07	0.999998	8.72574e-07	0.999998
rad40anti	5.86223e-07	0.999999	8.29106e-07	0.999999
rad43	2.45243e-07	0.999999	3.46850e-07	0.999999
rad72	2.39225e-07	1.000000	3.38341e-07	1.000000
rad61	1.61886e-07	1.000000	2.28959e-07	1.000000
rad7	6.79417e-08	1.000000	9.60909e-08	1.000000
rad11	4.93360e-08	1.000000	6.97769e-08	1.000000
rad23	3.14849e-08	1.000000	4.45297e-08	1.000000
rad41	3.10326e-08	1.000000	4.38898e-08	1.000000
rad28	1.28079e-08	1.000000	1.81144e-08	1.000000
rad9	1.16379e-08	1.000000	1.64597e-08	1.000000
rad13	7.98182e-09	1.000000	1.12888e-08	1.000000
rad45	5.76992e-09	1.000000	8.16050e-09	1.000000
rad22	2.35370e-09	1.000000	3.32887e-09	1.000000
rad21	1.40090e-09	1.000000	1.98131e-09	1.000000
rad36	1.04078e-09	1.000000	1.47200e-09	1.000000
rad15	7.16211e-10	1.000000	1.01295e-09	1.000000
rad33	5.57572e-10	1.000000	7.88584e-10	1.000000
rad26	3.22816e-10	1.000000	4.56563e-10	1.000000
rad20	2.95932e-10	1.000000	4.18541e-10	1.000000
rad25	1.37966e-10	1.000000	1.95128e-10	1.000000
rad12	1.32596e-10	1.000000	1.87533e-10	1.000000
rad10	1.21549e-10	1.000000	1.71909e-10	1.000000
rad18	8.21673e-11	1.000000	1.16210e-10	1.000000
rad24	7.98946e-11	1.000000	1.12997e-10	1.000000
rad2	2.51819e-11	1.000000	3.56150e-11	1.000000
rad3	2.20193e-11	1.000000	3.11424e-11	1.000000
rad8	1.75036e-11	1.000000	2.47557e-11	1.000000
rad4	1.34333e-11	1.000000	1.89990e-11	1.000000
rad14	7.84889e-12	1.000000	1.11008e-11	1.000000
rad47	6.78294e-12	1.000000	9.59320e-12	1.000000
rad1	6.70890e-12	1.000000	9.48852e-12	1.000000
rad5	1.50638e-12	1.000000	2.13049e-12	1.000000
rad27	3.71474e-13	1.000000	5.25382e-13	1.000000

100.000000 Pa, 2750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.60596e-11 (1.00)	3.26254e-11 (1.00)
Formation of rad11	8.62280e-12 (0.187)	3.34631e-12 (0.103)
Formation of rad6	1.33313e-11 (0.289)	5.17358e-12 (0.159)
H-abstraction	2.41055e-11 (0.523)	2.41055e-11 (0.739)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.738857	0.738857
Phenyl+Allene	0.291670	0.815025	0.000000	0.738857
PhCH2CCH+H	0.0913910	0.906416	0.129024	0.867881
PhCHCCH2+H	0.0440891	0.950505	0.0622439	0.930125
C2H2+PhCH2	0.0155256	0.966031	0.0219187	0.952043
PhCCH+CH3	0.0128660	0.978897	0.0181639	0.970207
Indene+H	0.00652628	0.985423	0.00921361	0.979421
PAH7+H	0.00506736	0.990490	0.00715398	0.986575
Ph+MeAc	0.00315045	0.993641	0.00444770	0.991023
PhcycC3H3_A+H	0.00197325	0.995614	0.00278579	0.993808
rad19syn	0.00143577	0.997050	0.00202698	0.995835
rad54	0.000652618	0.997702	0.000921345	0.996757
rad39	0.000584062	0.998286	0.000824563	0.997581
rad19anti	0.000328551	0.998615	0.000463839	0.998045
PAH9+H	0.000240083	0.998855	0.000338942	0.998384
PAH1+H	0.000158312	0.999013	0.000223500	0.998608
rad38	0.000149728	0.999163	0.000211381	0.998819
PhCCH3+H	0.000136859	0.999300	0.000193214	0.999012
rad50	8.20126e-05	0.999382	0.000115783	0.999128
rad55	6.64363e-05	0.999448	9.37930e-05	0.999222
rad70	5.64834e-05	0.999505	7.97417e-05	0.999302
rad56	5.60011e-05	0.999561	7.90604e-05	0.999381
PAH10+CH3	5.50001e-05	0.999616	7.76479e-05	0.999458

rad46	5.29291e-05	0.999669	7.47236e-05	0.999533
PAH3+H	5.07723e-05	0.999720	7.16792e-05	0.999605
rad35	4.92136e-05	0.999769	6.94783e-05	0.999674
rad53	4.16007e-05	0.999810	5.87307e-05	0.999733
rad67	4.08905e-05	0.999851	5.77279e-05	0.999791
rad51	3.94704e-05	0.999891	5.57231e-05	0.999846
rad34	1.91386e-05	0.999910	2.70194e-05	0.999873
PAH8+H	1.42422e-05	0.999924	2.01067e-05	0.999893
rad30	1.30157e-05	0.999937	1.83752e-05	0.999912
rad37	1.25492e-05	0.999950	1.77166e-05	0.999930
rad52	9.23972e-06	0.999959	1.30444e-05	0.999943
rad62	6.96717e-06	0.999966	9.83604e-06	0.999952
rad71	6.10668e-06	0.999972	8.62126e-06	0.999961
rad64	4.12977e-06	0.999976	5.83030e-06	0.999967
rad59	4.06498e-06	0.999980	5.73882e-06	0.999973
rad73	3.00195e-06	0.999983	4.23806e-06	0.999977
rad68syn	2.93878e-06	0.999986	4.14888e-06	0.999981
rad60syn	2.38755e-06	0.999989	3.37067e-06	0.999984
rad68anti	1.88099e-06	0.999990	2.65553e-06	0.999987
rad60anti	1.71403e-06	0.999992	2.41982e-06	0.999989
rad40syn	1.39075e-06	0.999994	1.96342e-06	0.999991
rad6	1.22152e-06	0.999995	1.72451e-06	0.999993
rad42	1.00674e-06	0.999996	1.42129e-06	0.999995
rad65	9.78281e-07	0.999997	1.38111e-06	0.999996
rad40anti	9.61022e-07	0.999998	1.35674e-06	0.999997
rad58	8.26908e-07	0.999999	1.16740e-06	0.999998
rad72	5.01664e-07	0.999999	7.08240e-07	0.999999
rad43	2.90406e-07	0.999999	4.09986e-07	1.000000
rad61	2.19065e-07	1.000000	3.09269e-07	1.000000
rad41	4.25354e-08	1.000000	6.00503e-08	1.000000
rad7	3.05034e-08	1.000000	4.30637e-08	1.000000
rad11	2.10949e-08	1.000000	2.97812e-08	1.000000
rad23	1.08582e-08	1.000000	1.53294e-08	1.000000
rad9	4.88781e-09	1.000000	6.90046e-09	1.000000
rad28	4.33578e-09	1.000000	6.12113e-09	1.000000
rad13	3.88144e-09	1.000000	5.47971e-09	1.000000
rad45	2.48345e-09	1.000000	3.50607e-09	1.000000
rad22	8.86651e-10	1.000000	1.25175e-09	1.000000
rad21	7.24139e-10	1.000000	1.02232e-09	1.000000
rad36	4.54175e-10	1.000000	6.41191e-10	1.000000
rad15	3.30142e-10	1.000000	4.66085e-10	1.000000
rad33	3.15710e-10	1.000000	4.45710e-10	1.000000
rad20	1.47925e-10	1.000000	2.08837e-10	1.000000
rad26	1.31560e-10	1.000000	1.85733e-10	1.000000
rad12	7.84873e-11	1.000000	1.10806e-10	1.000000
rad25	7.67776e-11	1.000000	1.08393e-10	1.000000
rad10	5.20644e-11	1.000000	7.35030e-11	1.000000
rad24	4.65724e-11	1.000000	6.57497e-11	1.000000
rad18	3.65931e-11	1.000000	5.16611e-11	1.000000
rad8	1.53283e-11	1.000000	2.16401e-11	1.000000
rad3	1.02130e-11	1.000000	1.44184e-11	1.000000
rad2	9.11293e-12	1.000000	1.28654e-11	1.000000
rad47	8.70950e-12	1.000000	1.22958e-11	1.000000
rad4	6.12461e-12	1.000000	8.64656e-12	1.000000
rad14	4.79653e-12	1.000000	6.77161e-12	1.000000
rad1	2.33035e-12	1.000000	3.28993e-12	1.000000
rad5	1.05282e-12	1.000000	1.48635e-12	1.000000
rad27	2.17923e-13	1.000000	3.07657e-13	1.000000

100.000000 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.43911e-11 (1.00)
Formation of rad11	1.12221e-11 (0.180)	4.21269e-12 (0.0949)
Formation of rad6	1.76534e-11 (0.283)	6.62699e-12 (0.149)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.756)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.755814	0.755814
Phenyl+Allene	0.288911	0.826362	0.000000	0.755814
PhCH2CCH+H	0.0883066	0.914669	0.124185	0.879999
PhCHCCH2+H	0.0408109	0.955480	0.0573922	0.937391
C2H2+PhCH2	0.0138651	0.969345	0.0194984	0.956889
PhCCH+CH3	0.0113581	0.980703	0.0159729	0.972862
PAH7+H	0.00465324	0.985356	0.00654382	0.979406
Indene+H	0.00463885	0.989995	0.00652360	0.985930
Ph+MeAc	0.00297586	0.992971	0.00418493	0.990115
PhcycC3H3_A+H	0.00245651	0.995427	0.00345457	0.993569

rad19syn	0.00161457	0.997042	0.00227056	0.995840
rad54	0.000727894	0.997770	0.00102363	0.996863
rad39	0.000500519	0.998270	0.000703878	0.997567
rad19anti	0.000275350	0.998546	0.000387223	0.997954
PAH9+H	0.000215439	0.998761	0.000302971	0.998257
PAH1+H	0.000185106	0.998946	0.000260314	0.998518
rad38	0.000138300	0.999084	0.000194491	0.998712
PhCCCH3+H	0.000118094	0.999202	0.000166075	0.998878
rad50	9.10407e-05	0.999293	0.000128030	0.999006
rad56	7.84339e-05	0.999372	0.000110301	0.999117
rad55	7.67863e-05	0.999449	0.000107984	0.999225
rad70	6.22160e-05	0.999511	8.74938e-05	0.999312
PAH3+H	5.79171e-05	0.999569	8.14482e-05	0.999394
PAH10+CH3	5.73445e-05	0.999626	8.06434e-05	0.999474
rad53	5.50960e-05	0.999681	7.74812e-05	0.999552
rad46	5.10991e-05	0.999732	7.18605e-05	0.999624
rad51	4.80126e-05	0.999780	6.75198e-05	0.999691
rad35	4.64038e-05	0.999827	6.52572e-05	0.999756
rad67	4.30007e-05	0.999870	6.04717e-05	0.999817
rad34	2.22805e-05	0.999892	3.13330e-05	0.999848
PAH8+H	2.20434e-05	0.999914	3.09994e-05	0.999879
rad30	1.19659e-05	0.999926	1.68275e-05	0.999896
rad37	1.08358e-05	0.999937	1.52383e-05	0.999911
rad52	1.06436e-05	0.999948	1.49680e-05	0.999926
rad71	9.99864e-06	0.999958	1.40610e-05	0.999940
rad62	8.52482e-06	0.999966	1.19884e-05	0.999952
rad64	4.99030e-06	0.999971	7.01781e-06	0.999959
rad73	4.57069e-06	0.999976	6.42773e-06	0.999966
rad59	4.47705e-06	0.999980	6.29607e-06	0.999972
rad68syn	4.00562e-06	0.999984	5.63308e-06	0.999978
rad68anti	2.55999e-06	0.999987	3.60011e-06	0.999981
rad60syn	2.46102e-06	0.999989	3.46092e-06	0.999985
rad40syn	2.03330e-06	0.999991	2.85942e-06	0.999987
rad60anti	1.78408e-06	0.999993	2.50894e-06	0.999990
rad40anti	1.43630e-06	0.999994	2.01985e-06	0.999992
rad42	1.37823e-06	0.999996	1.93819e-06	0.999994
rad65	1.15722e-06	0.999997	1.62738e-06	0.999996
rad58	1.05026e-06	0.999998	1.47697e-06	0.999997
rad72	9.43178e-07	0.999999	1.32639e-06	0.999998
rad6	4.85033e-07	0.999999	6.82097e-07	0.999999
rad43	3.36111e-07	1.000000	4.72671e-07	1.000000
rad61	2.74011e-07	1.000000	3.85340e-07	1.000000
rad41	5.56899e-08	1.000000	7.83165e-08	1.000000
rad7	1.52103e-08	1.000000	2.13902e-08	1.000000
rad11	1.01211e-08	1.000000	1.42332e-08	1.000000
rad23	4.27197e-09	1.000000	6.00766e-09	1.000000
rad9	2.20778e-09	1.000000	3.10480e-09	1.000000
rad13	2.07238e-09	1.000000	2.91436e-09	1.000000
rad28	1.71583e-09	1.000000	2.41296e-09	1.000000
rad45	1.16019e-09	1.000000	1.63157e-09	1.000000
rad21	4.07145e-10	1.000000	5.72565e-10	1.000000
rad22	3.81269e-10	1.000000	5.36176e-10	1.000000
rad36	2.14594e-10	1.000000	3.01782e-10	1.000000
rad33	1.90341e-10	1.000000	2.67674e-10	1.000000
rad15	1.61863e-10	1.000000	2.27627e-10	1.000000
rad20	8.42486e-11	1.000000	1.18478e-10	1.000000
rad26	5.89888e-11	1.000000	8.29553e-11	1.000000
rad12	4.83012e-11	1.000000	6.79257e-11	1.000000
rad25	4.59105e-11	1.000000	6.45635e-11	1.000000
rad24	2.85414e-11	1.000000	4.01376e-11	1.000000
rad10	2.49303e-11	1.000000	3.50592e-11	1.000000
rad18	1.84593e-11	1.000000	2.59592e-11	1.000000
rad8	1.35088e-11	1.000000	1.89973e-11	1.000000
rad47	1.03500e-11	1.000000	1.45552e-11	1.000000
rad3	5.32047e-12	1.000000	7.48215e-12	1.000000
rad2	3.97851e-12	1.000000	5.59496e-12	1.000000
rad14	3.19481e-12	1.000000	4.49283e-12	1.000000
rad4	3.16638e-12	1.000000	4.45285e-12	1.000000
rad1	9.70187e-13	1.000000	1.36437e-12	1.000000
rad5	7.64843e-13	1.000000	1.07559e-12	1.000000
rad27	1.41916e-13	1.000000	1.99576e-13	1.000000

100.000000 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.22129e-11 (1.00)	5.87536e-11 (1.00)
Formation of rad11	1.42538e-11 (0.173)	5.21850e-12 (0.0888)
Formation of rad6	2.27549e-11 (0.277)	8.33085e-12 (0.142)
H-abstraction	4.52043e-11 (0.550)	4.52043e-11 (0.769)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.549844	0.549844	0.769387	0.769387
Phenyl+Allene	0.285348	0.835192	0.00000	0.769387
PhCH2CCH+H	0.0853725	0.920565	0.119460	0.888847
PhCHCCH2+H	0.0381838	0.958748	0.0534300	0.942277
C2H2+PhCH2	0.0128678	0.971616	0.0180058	0.960283
PhCCH+CH3	0.0101926	0.981809	0.0142623	0.974545
PAH7+H	0.00428273	0.986092	0.00599275	0.980538
Indene+H	0.00340696	0.989498	0.00476730	0.985305
PhcycC3H3_A+H	0.00292042	0.992419	0.00408648	0.989392
Ph+MeAc	0.00285190	0.995271	0.00399062	0.993382
rad19syn	0.00176006	0.997031	0.00246283	0.995845
rad54	0.000783510	0.997814	0.00109635	0.996942
rad39	0.000435205	0.998250	0.000608975	0.997551
rad19anti	0.000232596	0.998482	0.000325466	0.997876
PAH1+H	0.000210289	0.998692	0.000294253	0.998170
PAH9+H	0.000189945	0.998882	0.000265786	0.998436
rad38	0.000125074	0.999007	0.000175014	0.998611
PhCCCH3+H	0.000104500	0.999112	0.000146225	0.998757
rad56	0.000102497	0.999214	0.000143422	0.998901
rad50	9.64824e-05	0.999311	0.000135006	0.999036
rad55	8.51952e-05	0.999396	0.000119212	0.999155
rad53	6.86884e-05	0.999465	9.61149e-05	0.999251
rad70	6.67834e-05	0.999532	9.34488e-05	0.999344
PAH3+H	6.43471e-05	0.999596	9.00398e-05	0.999435
PAH10+CH3	5.80431e-05	0.999654	8.12189e-05	0.999516
rad51	5.49325e-05	0.999709	7.68663e-05	0.999593
rad46	4.80267e-05	0.999757	6.72032e-05	0.999660
rad67	4.40669e-05	0.999801	6.16620e-05	0.999721
rad35	4.33471e-05	0.999844	6.06549e-05	0.999782
PAH8+H	3.16115e-05	0.999876	4.42336e-05	0.999826
rad34	2.50787e-05	0.999901	3.50921e-05	0.999861
rad71	1.47840e-05	0.999916	2.06870e-05	0.999882
rad52	1.16183e-05	0.999927	1.62573e-05	0.999898
rad30	1.10773e-05	0.999939	1.55003e-05	0.999914
rad62	1.06709e-05	0.999949	1.49315e-05	0.999929
rad37	9.29415e-06	0.999959	1.30052e-05	0.999942
rad73	6.34040e-06	0.999965	8.87200e-06	0.999951
rad64	5.77654e-06	0.999971	8.08303e-06	0.999959
rad68syn	5.15352e-06	0.999976	7.21124e-06	0.999966
rad59	4.82491e-06	0.999981	6.75138e-06	0.999973
rad68anti	3.28966e-06	0.999984	4.60317e-06	0.999977
rad40syn	2.77795e-06	0.999987	3.88714e-06	0.999981
rad60syn	2.50929e-06	0.999989	3.51120e-06	0.999985
rad40anti	1.99955e-06	0.999991	2.79793e-06	0.999988
rad42	1.90475e-06	0.999993	2.66529e-06	0.999990
rad60anti	1.83422e-06	0.999995	2.56658e-06	0.999993
rad72	1.57557e-06	0.999996	2.20468e-06	0.999995
rad65	1.29227e-06	0.999998	1.80826e-06	0.999997
rad58	1.27683e-06	0.999999	1.78665e-06	0.999999
rad43	3.85036e-07	0.999999	5.38774e-07	0.999999
rad61	3.23861e-07	1.000000	4.53173e-07	1.000000
rad6	2.17225e-07	1.000000	3.03959e-07	1.000000
rad41	7.10661e-08	1.000000	9.94417e-08	1.000000
rad7	8.24452e-09	1.000000	1.15364e-08	1.000000
rad11	5.34938e-09	1.000000	7.48528e-09	1.000000
rad23	1.85190e-09	1.000000	2.59133e-09	1.000000
rad13	1.19464e-09	1.000000	1.67164e-09	1.000000
rad9	1.07062e-09	1.000000	1.49811e-09	1.000000
rad28	7.62317e-10	1.000000	1.06670e-09	1.000000
rad45	5.80044e-10	1.000000	8.11647e-10	1.000000
rad21	2.45550e-10	1.000000	3.43593e-10	1.000000
rad22	1.82559e-10	1.000000	2.55452e-10	1.000000
rad33	1.20689e-10	1.000000	1.68878e-10	1.000000
rad36	1.08267e-10	1.000000	1.51496e-10	1.000000
rad15	8.42877e-11	1.000000	1.17942e-10	1.000000
rad20	5.32193e-11	1.000000	7.44688e-11	1.000000
rad12	3.09422e-11	1.000000	4.32969e-11	1.000000
rad25	2.91580e-11	1.000000	4.08003e-11	1.000000
rad26	2.85215e-11	1.000000	3.99096e-11	1.000000
rad24	1.82421e-11	1.000000	2.55259e-11	1.000000
rad10	1.29420e-11	1.000000	1.81095e-11	1.000000
rad8	1.19400e-11	1.000000	1.67075e-11	1.000000
rad47	1.15662e-11	1.000000	1.61844e-11	1.000000
rad18	1.02480e-11	1.000000	1.43399e-11	1.000000
rad3	3.03003e-12	1.000000	4.23987e-12	1.000000
rad14	2.31791e-12	1.000000	3.24341e-12	1.000000
rad2	1.98811e-12	1.000000	2.78193e-12	1.000000

rad4	1.81110e-12	1.00000	2.53425e-12	1.00000
rad5	5.74291e-13	1.00000	8.03594e-13	1.00000
rad1	4.64593e-13	1.00000	6.50096e-13	1.00000
rad27	9.92909e-14	1.00000	1.38936e-13	1.00000

100.000000 Pa, 3500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.05713e-10 (1.00)	7.59651e-11 (1.00)
Formation of rad11	1.77412e-11 (0.168)	6.37266e-12 (0.0839)
Formation of rad6	2.86822e-11 (0.271)	1.03027e-11 (0.136)
H-abstraction	5.92897e-11 (0.561)	5.92897e-11 (0.780)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.780487	0.780487
Phenyl+Allene	0.281404	0.842259	0.00000	0.780487
PhCH2CCH+H	0.0826652	0.924924	0.115037	0.895524
PhCHCCH2+H	0.0360585	0.960982	0.0501792	0.945703
C2H2+PhCH2	0.0122593	0.973242	0.0170601	0.962763
PhCCH+CH3	0.00927084	0.982512	0.0129013	0.975665
PAH7+H	0.00395025	0.986463	0.00549719	0.981162
PhcycC3H3_A+H	0.00334803	0.989811	0.00465913	0.985821
Ph+MeAc	0.00276398	0.992575	0.00384636	0.989667
Indene+H	0.00257592	0.995151	0.00358465	0.993252
rad19syn	0.00187235	0.997023	0.00260558	0.995857
rad54	0.000820548	0.997843	0.00114187	0.996999
rad39	0.000383057	0.998226	0.000533064	0.997532
PAH1+H	0.000234591	0.998461	0.000326458	0.997859
rad19anti	0.000198627	0.998660	0.000276409	0.998135
PAH9+H	0.000165222	0.998825	0.000229925	0.998365
rad56	0.000126873	0.998952	0.000176557	0.998542
rad38	0.000111228	0.999063	0.000154786	0.998697
rad50	9.85644e-05	0.999162	0.000137162	0.998834
PhCCCH3+H	9.42428e-05	0.999256	0.000131148	0.998965
rad55	9.15803e-05	0.999347	0.000127444	0.999092
rad53	8.16797e-05	0.999429	0.000113666	0.999206
rad70	7.02694e-05	0.999499	9.77873e-05	0.999304
PAH3+H	6.99220e-05	0.999569	9.73037e-05	0.999401
rad51	5.98542e-05	0.999629	8.32935e-05	0.999484
PAH10+CH3	5.76128e-05	0.999687	8.01742e-05	0.999564
rad67	4.43734e-05	0.999731	6.17502e-05	0.999626
rad46	4.41956e-05	0.999775	6.15028e-05	0.999688
PAH8+H	4.26937e-05	0.999818	5.94126e-05	0.999747
rad35	4.02802e-05	0.999858	5.60541e-05	0.999803
rad34	2.74952e-05	0.999886	3.82623e-05	0.999841
rad71	2.01330e-05	0.999906	2.80172e-05	0.999869
rad62	1.37118e-05	0.999920	1.90814e-05	0.999889
rad52	1.21505e-05	0.999932	1.69087e-05	0.999905
rad30	1.02915e-05	0.999942	1.43216e-05	0.999920
rad73	8.16455e-06	0.999950	1.13618e-05	0.999931
rad37	7.96632e-06	0.999958	1.10859e-05	0.999942
rad64	6.47621e-06	0.999965	9.01234e-06	0.999951
rad68syn	6.33616e-06	0.999971	8.81739e-06	0.999960
rad59	5.10458e-06	0.999976	7.10356e-06	0.999967
rad68anti	4.04060e-06	0.999980	5.62292e-06	0.999973
rad40syn	3.59896e-06	0.999984	5.00833e-06	0.999978
rad42	2.66326e-06	0.999986	3.70620e-06	0.999982
rad40anti	2.63317e-06	0.999989	3.66434e-06	0.999985
rad60syn	2.53258e-06	0.999992	3.52433e-06	0.999989
rad72	2.38540e-06	0.999994	3.31953e-06	0.999992
rad60anti	1.86455e-06	0.999996	2.59471e-06	0.999995
rad58	1.49816e-06	0.999997	2.08484e-06	0.999997
rad65	1.37933e-06	0.999999	1.91948e-06	0.999999
rad43	4.42457e-07	0.999999	6.15722e-07	0.999999
rad61	3.67261e-07	1.000000	5.11082e-07	1.000000
rad6	1.07323e-07	1.000000	1.49351e-07	1.000000
rad41	8.98830e-08	1.000000	1.25082e-07	1.000000
rad7	4.78001e-09	1.000000	6.65187e-09	1.000000
rad11	3.06506e-09	1.000000	4.26534e-09	1.000000
rad23	8.67971e-10	1.000000	1.20787e-09	1.000000
rad13	7.33860e-10	1.000000	1.02124e-09	1.000000
rad9	5.55273e-10	1.000000	7.72720e-10	1.000000
rad28	3.71870e-10	1.000000	5.17496e-10	1.000000
rad45	3.06755e-10	1.000000	4.26881e-10	1.000000
rad21	1.56976e-10	1.000000	2.18448e-10	1.000000
rad22	9.56503e-11	1.000000	1.33107e-10	1.000000
rad33	7.97462e-11	1.000000	1.10975e-10	1.000000
rad36	5.76589e-11	1.000000	8.02385e-11	1.000000

rad15	4.64660e-11	1.000000	6.46623e-11	1.00000
rad20	3.64014e-11	1.000000	5.06564e-11	1.00000
rad12	2.06029e-11	1.000000	2.86711e-11	1.00000
rad25	1.94667e-11	1.000000	2.70899e-11	1.00000
rad26	1.47234e-11	1.000000	2.04892e-11	1.00000
rad47	1.23134e-11	1.000000	1.71353e-11	1.00000
rad24	1.20848e-11	1.000000	1.68172e-11	1.00000
rad8	1.05538e-11	1.000000	1.46868e-11	1.00000
rad10	7.16189e-12	1.000000	9.96650e-12	1.00000
rad18	6.12502e-12	1.000000	8.52357e-12	1.00000
rad3	1.85049e-12	1.000000	2.57516e-12	1.00000
rad14	1.83591e-12	1.000000	2.55485e-12	1.00000
rad4	1.12372e-12	1.000000	1.56378e-12	1.00000
rad2	1.09665e-12	1.000000	1.52610e-12	1.00000
rad5	4.44920e-13	1.000000	6.19153e-13	1.00000
rad1	2.48533e-13	1.000000	3.45859e-13	1.00000
rad27	7.36833e-14	1.000000	1.02538e-13	1.00000

100.000000 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.33217e-10 (1.00)	9.62711e-11 (1.00)
Formation of rad11	2.17064e-11 (0.163)	7.68279e-12 (0.0798)
Formation of rad6	3.54800e-11 (0.266)	1.25578e-11 (0.130)
H-abstraction	7.60305e-11 (0.571)	7.60305e-11 (0.790)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789754	0.789754
Phenyl+Allene	0.277336	0.848063	0.00000	0.789754
PhCH2CCH+H	0.0801946	0.928257	0.110970	0.900724
PhCHCCH2+H	0.0343186	0.962576	0.0474891	0.948213
C2H2+PhCH2	0.0118839	0.974460	0.0164445	0.964658
PhCCH+CH3	0.00852836	0.982988	0.0118012	0.976459
PhcycC3H3_A+H	0.00372852	0.986717	0.00515941	0.981619
PAH7+H	0.00365085	0.990368	0.00505191	0.986671
Ph+MeAc	0.00270113	0.993069	0.00373773	0.990408
Indene+H	0.00199902	0.995068	0.00276618	0.993174
rad19syn	0.00195356	0.997021	0.00270328	0.995878
rad54	0.000841040	0.997862	0.00116380	0.997042
rad39	0.000340476	0.998203	0.000471140	0.997513
PAH1+H	0.000258935	0.998462	0.000358305	0.997871
rad19anti	0.000171610	0.998633	0.000237469	0.998108
rad56	0.000150421	0.998784	0.000208148	0.998317
PAH9+H	0.000142294	0.998926	0.000196902	0.998514
rad50	9.78223e-05	0.999024	0.000135363	0.998649
rad38	9.76274e-05	0.999122	0.000135094	0.998784
rad55	9.60227e-05	0.999218	0.000132873	0.998917
rad53	9.35446e-05	0.999311	0.000129444	0.999046
PhCCCH3+H	8.63448e-05	0.999397	0.000119481	0.999166
PAH3+H	7.46029e-05	0.999472	0.000103233	0.999269
rad70	7.27716e-05	0.999545	0.000100699	0.999370
rad51	6.27283e-05	0.999608	8.68013e-05	0.999457
PAH10+CH3	5.64592e-05	0.999664	7.81265e-05	0.999535
PAH8+H	5.49581e-05	0.999719	7.60495e-05	0.999611
rad67	4.41361e-05	0.999763	6.10741e-05	0.999672
rad46	4.00099e-05	0.999803	5.53645e-05	0.999727
rad35	3.73499e-05	0.999840	5.16835e-05	0.999779
rad34	2.95155e-05	0.999870	4.08426e-05	0.999820
rad71	2.56729e-05	0.999896	3.55253e-05	0.999855
rad62	1.78766e-05	0.999914	2.47371e-05	0.999880
rad52	1.22818e-05	0.999926	1.69952e-05	0.999897
rad73	9.90899e-06	0.999936	1.37118e-05	0.999911
rad30	9.58077e-06	0.999945	1.32575e-05	0.999924
rad68syn	7.51159e-06	0.999953	1.03943e-05	0.999934
rad64	7.08717e-06	0.999960	9.80700e-06	0.999944
rad37	6.84823e-06	0.999967	9.47635e-06	0.999954
rad59	5.31873e-06	0.999972	7.35987e-06	0.999961
rad68anti	4.78626e-06	0.999977	6.62308e-06	0.999968
rad40syn	4.46912e-06	0.999981	6.18422e-06	0.999974
rad42	3.72274e-06	0.999985	5.15140e-06	0.999979
rad72	3.33666e-06	0.999988	4.61715e-06	0.999983
rad40anti	3.31727e-06	0.999992	4.59034e-06	0.999988
rad60syn	2.53369e-06	0.999994	3.50604e-06	0.999992
rad60anti	1.87710e-06	0.999996	2.59748e-06	0.999994
rad58	1.70809e-06	0.999998	2.36361e-06	0.999997
rad65	1.42134e-06	0.999999	1.96680e-06	0.999999
rad43	5.13732e-07	1.000000	7.10886e-07	0.999999
rad61	4.03891e-07	1.000000	5.58890e-07	1.000000

rad41	1.13553e-07	1.00000	1.57131e-07	1.000000
rad6	5.75397e-08	1.00000	7.96218e-08	1.00000
rad7	2.92813e-09	1.00000	4.05186e-09	1.00000
rad11	1.87824e-09	1.00000	2.59906e-09	1.00000
rad13	4.75471e-10	1.00000	6.57944e-10	1.00000
rad23	4.34201e-10	1.00000	6.00832e-10	1.00000
rad9	3.06427e-10	1.00000	4.24024e-10	1.00000
rad28	1.96121e-10	1.00000	2.71385e-10	1.00000
rad45	1.70029e-10	1.00000	2.35280e-10	1.00000
rad21	1.05341e-10	1.00000	1.45767e-10	1.00000
rad33	5.45297e-11	1.00000	7.54566e-11	1.00000
rad22	5.40712e-11	1.00000	7.48219e-11	1.00000
rad36	3.21213e-11	1.00000	4.44483e-11	1.00000
rad15	2.69956e-11	1.00000	3.73557e-11	1.00000
rad20	2.64464e-11	1.00000	3.65956e-11	1.00000
rad12	1.42162e-11	1.00000	1.96719e-11	1.00000
rad25	1.35433e-11	1.00000	1.87408e-11	1.00000
rad47	1.26183e-11	1.00000	1.74607e-11	1.00000
rad8	9.31011e-12	1.00000	1.28830e-11	1.00000
rad24	8.25977e-12	1.00000	1.14296e-11	1.00000
rad26	8.05728e-12	1.00000	1.11494e-11	1.00000
rad10	4.18107e-12	1.00000	5.78563e-12	1.00000
rad18	3.87870e-12	1.00000	5.36722e-12	1.00000
rad14	1.57811e-12	1.00000	2.18374e-12	1.00000
rad3	1.19563e-12	1.00000	1.65447e-12	1.00000
rad4	7.44531e-13	1.00000	1.03026e-12	1.00000
rad2	6.52332e-13	1.00000	9.02672e-13	1.00000
rad5	3.54806e-13	1.00000	4.90968e-13	1.00000
rad1	1.45424e-13	1.00000	2.01234e-13	1.00000
rad27	5.78085e-14	1.00000	7.99931e-14	1.00000

100.00000 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.65008e-10 (1.00)	1.19912e-10 (1.00)
Formation of rad11	2.61707e-11 (0.159)	9.15556e-12 (0.0764)
Formation of rad6	4.31906e-11 (0.262)	1.51098e-11 (0.126)
H-abstraction	9.56470e-11 (0.580)	9.56470e-11 (0.798)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.579650	0.579650	0.797641	0.797641
Phenyl+Allene	0.273295	0.852945	0.000000	0.797641
PhCH2CCH+H	0.0779435	0.930888	0.107256	0.904897
PhCHCCH2+H	0.0328766	0.963765	0.0452406	0.950137
C2H2+PhCH2	0.0116508	0.975415	0.0160323	0.966170
PhCCH+CH3	0.00792125	0.983337	0.0109003	0.977070
PhcycC3H3_A+H	0.00405637	0.987393	0.00558187	0.982652
PAH7+H	0.00338058	0.990774	0.00465193	0.987304
Ph+MeAc	0.00265534	0.993429	0.00365394	0.990958
rad19syn	0.00200699	0.995436	0.00276178	0.993720
Indene+H	0.00158842	0.997024	0.00218578	0.995905
rad54	0.000847468	0.997872	0.00116618	0.997072
rad39	0.000304994	0.998177	0.000419695	0.997491
PAH1+H	0.000284127	0.998461	0.000390980	0.997882
rad56	0.000172242	0.998633	0.000237017	0.998119
rad19anti	0.000149971	0.998783	0.000206372	0.998326
PAH9+H	0.000121735	0.998905	0.000167516	0.998493
rad53	0.000103935	0.999009	0.000143023	0.998636
rad55	9.87033e-05	0.999108	0.000135823	0.998772
rad50	9.49261e-05	0.999203	0.000130626	0.998903
rad38	8.48528e-05	0.999287	0.000116764	0.999019
PhCCCH3+H	8.02197e-05	0.999368	0.000110388	0.999130
PAH3+H	7.84218e-05	0.999446	0.000107914	0.999238
rad70	7.43978e-05	0.999520	0.000102377	0.999340
PAH8+H	6.80299e-05	0.999588	9.36142e-05	0.999434
rad51	6.37415e-05	0.999652	8.77128e-05	0.999521
PAH10+CH3	5.48776e-05	0.999707	7.55156e-05	0.999597
rad67	4.35164e-05	0.999751	5.98821e-05	0.999657
rad46	3.57789e-05	0.999786	4.92346e-05	0.999706
rad35	3.46399e-05	0.999821	4.76671e-05	0.999754
rad34	3.11445e-05	0.999852	4.28572e-05	0.999797
rad71	3.10575e-05	0.999883	4.27374e-05	0.999839
rad62	2.32398e-05	0.999906	3.19798e-05	0.999871
rad52	1.20852e-05	0.999919	1.66301e-05	0.999888
rad73	1.14713e-05	0.999930	1.57854e-05	0.999904
rad30	8.93299e-06	0.999939	1.22925e-05	0.999916
rad68syn	8.64434e-06	0.999948	1.18952e-05	0.999928
rad64	7.61305e-06	0.999955	1.04761e-05	0.999938

rad37	5.91727e-06	0.999961	8.14261e-06	0.999947
rad68anti	5.50424e-06	0.999967	7.57424e-06	0.999954
rad59	5.47385e-06	0.999972	7.53241e-06	0.999962
rad40syn	5.36170e-06	0.999977	7.37810e-06	0.999969
rad42	5.12147e-06	0.999983	7.04750e-06	0.999976
rad72	4.37900e-06	0.999987	6.02581e-06	0.999982
rad40anti	4.03125e-06	0.999991	5.54731e-06	0.999988
rad60syn	2.51669e-06	0.999993	3.46315e-06	0.999991
rad58	1.90267e-06	0.999995	2.61822e-06	0.999994
rad60anti	1.87487e-06	0.999997	2.57996e-06	0.999996
rad65	1.42565e-06	0.999999	1.96181e-06	0.999998
rad43	6.01849e-07	0.999999	8.28191e-07	0.999999
rad61	4.34037e-07	1.000000	5.97267e-07	1.000000
rad41	1.43044e-07	1.000000	1.96839e-07	1.000000
rad6	3.30477e-08	1.000000	4.54762e-08	1.000000
rad7	1.87758e-09	1.000000	2.58368e-09	1.000000
rad11	1.21738e-09	1.000000	1.67521e-09	1.000000
rad13	3.22290e-10	1.000000	4.43496e-10	1.000000
rad23	2.29605e-10	1.000000	3.15955e-10	1.000000
rad9	1.78896e-10	1.000000	2.46174e-10	1.000000
rad28	1.10501e-10	1.000000	1.52058e-10	1.000000
rad45	9.80858e-11	1.000000	1.34973e-10	1.000000
rad21	7.36298e-11	1.000000	1.01320e-10	1.000000
rad33	3.83832e-11	1.000000	5.28182e-11	1.000000
rad22	3.26009e-11	1.000000	4.48612e-11	1.000000
rad20	2.01174e-11	1.000000	2.76829e-11	1.000000
rad36	1.85894e-11	1.000000	2.55804e-11	1.000000
rad15	1.64457e-11	1.000000	2.26304e-11	1.000000
rad47	1.25503e-11	1.000000	1.72701e-11	1.000000
rad12	1.01292e-11	1.000000	1.39385e-11	1.000000
rad25	9.74999e-12	1.000000	1.34167e-11	1.000000
rad8	8.18780e-12	1.000000	1.12671e-11	1.000000
rad24	5.80512e-12	1.000000	7.98827e-12	1.000000
rad26	4.64634e-12	1.000000	6.39370e-12	1.000000
rad18	2.57325e-12	1.000000	3.54098e-12	1.000000
rad10	2.55719e-12	1.000000	3.51888e-12	1.000000
rad14	1.44684e-12	1.000000	1.99096e-12	1.000000
rad3	8.09456e-13	1.000000	1.11387e-12	1.000000
rad4	5.20264e-13	1.000000	7.15920e-13	1.000000
rad2	4.12358e-13	1.000000	5.67435e-13	1.000000
rad5	2.90287e-13	1.000000	3.99457e-13	1.000000
rad1	9.15973e-14	1.000000	1.26045e-13	1.000000
rad27	4.78245e-14	1.000000	6.58102e-14	1.000000

10.000000 Pa, 20.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.56740e-51 (1.00)	1.56740e-51 (1.00)
Formation of rad11	1.56740e-51 (1.000)	1.56740e-51 (1.000)
Formation of rad6	3.73945e-60 (2.39e-09)	3.73945e-60 (2.39e-09)
H-abstraction	1.53631e-76 (9.80e-26)	1.53631e-76 (9.80e-26)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.812327	0.812327	0.812327	0.812327
rad11	0.142223	0.954550	0.142223	0.954550
Indene+H	0.0341841	0.988734	0.0341841	0.988734
rad23	0.00700910	0.995743	0.00700910	0.995743
rad22	0.00309992	0.998843	0.00309992	0.998843
rad45	0.000556746	0.999400	0.000556746	0.999400
C2H2+PhCH2	0.000295871	0.999696	0.000295871	0.999696
rad7	0.000261815	0.999958	0.000261815	0.999958
rad36	3.46820e-05	0.999992	3.46820e-05	0.999992
rad25	1.86802e-06	0.999994	1.86802e-06	0.999994
rad18	1.54428e-06	0.999996	1.54428e-06	0.999996
PhCHCCH2+H	1.41184e-06	0.999997	1.41184e-06	0.999997
rad13	1.05811e-06	0.999998	1.05811e-06	0.999998
rad3	6.57891e-07	0.999999	6.57891e-07	0.999999
rad4	3.32625e-07	0.999999	3.32625e-07	0.999999
rad20	1.63463e-07	0.999999	1.63463e-07	0.999999
rad2	1.50333e-07	0.999999	1.50333e-07	0.999999
rad21	1.01071e-07	1.000000	1.01071e-07	1.000000
rad9	7.53360e-08	1.000000	7.53360e-08	1.000000
rad28	3.04584e-08	1.000000	3.04584e-08	1.000000
rad30	1.45396e-08	1.000000	1.45396e-08	1.000000
rad1	9.50332e-09	1.000000	9.50332e-09	1.000000
rad15	2.49963e-09	1.000000	2.49963e-09	1.000000
rad10	1.91284e-09	1.000000	1.91284e-09	1.000000
rad33	1.21225e-09	1.000000	1.21225e-09	1.000000

PhCCH+CH3	7.60245e-10	1.000000	7.60245e-10	1.000000
Phenyl+Allene	7.13731e-10	1.000000	0.000000	1.000000
PAH9+H	9.60301e-11	1.000000	9.60301e-11	1.000000
rad38	5.86892e-11	1.000000	5.86892e-11	1.000000
rad35	5.39790e-11	1.000000	5.39790e-11	1.000000
rad14	3.24156e-11	1.000000	3.24156e-11	1.000000
rad24	4.71855e-12	1.000000	4.71855e-12	1.000000
rad8	4.65667e-12	1.000000	4.65667e-12	1.000000
PhCCCH3+H	7.40504e-13	1.000000	7.40504e-13	1.000000
rad46	3.07004e-13	1.000000	3.07004e-13	1.000000
rad26	3.00993e-13	1.000000	3.00993e-13	1.000000
rad27	1.85758e-13	1.000000	1.85758e-13	1.000000
rad60syn	6.90120e-14	1.000000	6.90120e-14	1.000000
Ph+MeAc	2.22044e-14	1.000000	2.22044e-14	1.000000
rad60anti	9.31494e-16	1.000000	9.31494e-16	1.000000
PAH7+H	6.10910e-16	1.000000	6.10910e-16	1.000000
PhCH2CCH+H	2.58029e-16	1.000000	2.58029e-16	1.000000
rad31	2.09703e-16	1.000000	2.09703e-16	1.000000
rad39	5.55690e-17	1.000000	5.55690e-17	1.000000
rad12	4.86710e-21	1.000000	4.86710e-21	1.000000
rad5	3.71586e-24	1.000000	3.71586e-24	1.000000
PAH3+H	1.75005e-24	1.000000	1.75005e-24	1.000000
rad37	1.02542e-24	1.000000	1.02542e-24	1.000000
rad59	9.14663e-25	1.000000	9.14663e-25	1.000000
rad50	3.82021e-25	1.000000	3.82021e-25	1.000000
Benzene+2-propynyl	9.80165e-26	1.000000	9.80165e-26	1.000000
rad19syn	4.53183e-31	1.000000	4.53183e-31	1.000000
rad52	4.48772e-34	1.000000	4.48772e-34	1.000000
rad54	1.49333e-34	1.000000	1.49333e-34	1.000000
rad43	3.25086e-36	1.000000	3.25086e-36	1.000000
PAH10+CH3	4.60916e-37	1.000000	4.60916e-37	1.000000
rad62	3.07854e-37	1.000000	3.07854e-37	1.000000
rad51	3.00616e-39	1.000000	3.00616e-39	1.000000
rad70	6.03105e-41	1.000000	6.03105e-41	1.000000
PhcycC3H3_A+H	4.13649e-41	1.000000	4.13649e-41	1.000000
rad55	1.98718e-41	1.000000	1.98718e-41	1.000000
rad65	3.33294e-43	1.000000	3.33294e-43	1.000000
rad58	1.96039e-44	1.000000	1.96039e-44	1.000000
PAH1+H	1.45083e-45	1.000000	1.45083e-45	1.000000
rad34	1.86254e-46	1.000000	1.86254e-46	1.000000
rad47	6.69800e-49	1.000000	6.69800e-49	1.000000
rad42	1.51018e-49	1.000000	1.51018e-49	1.000000
rad41	2.49627e-50	1.000000	2.49627e-50	1.000000

10.000000 Pa, 30.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.03204e-39 (1.00)	5.03204e-39 (1.00)
Formation of rad11	5.03203e-39 (1.000)	5.03203e-39 (1.000)
Formation of rad6	9.92181e-45 (1.97e-06)	9.92181e-45 (1.97e-06)
H-abstraction	3.33191e-55 (6.62e-17)	3.33191e-55 (6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.911838	0.911838	0.911838	0.911838
Indene+H	0.0431749	0.955013	0.0431749	0.955013
rad11	0.0351948	0.990208	0.0351948	0.990208
rad23	0.00791632	0.998124	0.00791632	0.998124
rad22	0.000685353	0.998809	0.000685353	0.998809
rad45	0.000491369	0.999301	0.000491369	0.999301
C2H2+PhCH2	0.000376553	0.999677	0.000376553	0.999677
rad7	0.000285208	0.999963	0.000285208	0.999963
rad36	3.05995e-05	0.999993	3.05995e-05	0.999993
PhCHCCH2+H	1.90673e-06	0.999995	1.90673e-06	0.999995
rad3	1.39585e-06	0.999996	1.39585e-06	0.999996
rad13	9.68404e-07	0.999997	9.68404e-07	0.999997
rad4	7.05807e-07	0.999998	7.05807e-07	0.999998
rad2	6.92804e-07	0.999999	6.92804e-07	0.999999
rad25	6.34189e-07	0.999999	6.34189e-07	0.999999
rad18	1.22429e-07	1.000000	1.22429e-07	1.000000
rad9	1.03715e-07	1.000000	1.03715e-07	1.000000
rad28	8.16324e-08	1.000000	8.16324e-08	1.000000
rad1	4.38167e-08	1.000000	4.38167e-08	1.000000
rad30	1.91287e-08	1.000000	1.91287e-08	1.000000
rad10	1.60186e-08	1.000000	1.60186e-08	1.000000
rad20	1.15143e-08	1.000000	1.15143e-08	1.000000
rad21	7.10671e-09	1.000000	7.10671e-09	1.000000
PhCCH+CH3	3.74235e-09	1.000000	3.74235e-09	1.000000
rad15	3.34092e-09	1.000000	3.34092e-09	1.000000

rad33	1.11935e-09	1.000000	1.11935e-09	1.000000
Phenyl+Allene	1.07183e-09	1.000000	0.00000	1.000000
PAH9+H	2.99010e-10	1.000000	2.99010e-10	1.000000
rad35	1.66459e-10	1.000000	1.66459e-10	1.000000
rad38	1.23658e-10	1.000000	1.23658e-10	1.000000
rad14	9.92549e-11	1.000000	9.92549e-11	1.000000
PhCCCH3+H	7.37629e-12	1.000000	7.37629e-12	1.000000
rad8	7.05983e-12	1.000000	7.05983e-12	1.000000
rad26	5.32715e-12	1.000000	5.32715e-12	1.000000
rad24	3.94236e-12	1.000000	3.94236e-12	1.000000
rad27	7.94316e-13	1.000000	7.94316e-13	1.000000
rad46	6.65498e-13	1.000000	6.65498e-13	1.000000
Ph+MeAc	1.45816e-13	1.000000	1.45816e-13	1.000000
rad60syn	1.06177e-13	1.000000	1.06177e-13	1.000000
PAH7+H	3.55151e-15	1.000000	3.55151e-15	1.000000
rad60anti	1.05180e-15	1.000000	1.05180e-15	1.000000
rad31	4.52938e-16	1.000000	4.52938e-16	1.000000
rad39	3.26143e-16	1.000000	3.26143e-16	1.000000
PhCH2CCH+H	1.41000e-16	1.000000	1.41000e-16	1.000000
Benzene+2-propynyl	6.62139e-17	1.000000	6.62139e-17	1.000000
rad12	1.66530e-19	1.000000	1.66530e-19	1.000000
rad5	2.51035e-23	1.000000	2.51035e-23	1.000000
rad37	2.27737e-23	1.000000	2.27737e-23	1.000000
PAH3+H	7.31638e-25	1.000000	7.31638e-25	1.000000
rad50	6.93809e-25	1.000000	6.93809e-25	1.000000
rad59	3.78531e-25	1.000000	3.78531e-25	1.000000
rad19syn	1.14786e-30	1.000000	1.14786e-30	1.000000
rad52	5.83160e-34	1.000000	5.83160e-34	1.000000
rad54	3.81729e-34	1.000000	3.81729e-34	1.000000
rad43	1.63873e-35	1.000000	1.63873e-35	1.000000
PAH10+CH3	5.16257e-36	1.000000	5.16257e-36	1.000000
rad62	9.00285e-37	1.000000	9.00285e-37	1.000000
rad51	3.17593e-39	1.000000	3.17593e-39	1.000000
rad70	1.58261e-40	1.000000	1.58261e-40	1.000000
PhcycC3H3_A+H	1.08491e-40	1.000000	1.08491e-40	1.000000
rad55	5.20233e-41	1.000000	5.20233e-41	1.000000
rad65	3.53174e-43	1.000000	3.53174e-43	1.000000
rad58	5.15035e-44	1.000000	5.15035e-44	1.000000
PAH1+H	7.12023e-45	1.000000	7.12023e-45	1.000000
rad34	4.95647e-46	1.000000	4.95647e-46	1.000000
rad47	5.15083e-49	1.000000	5.15083e-49	1.000000
rad42	4.26251e-49	1.000000	4.26251e-49	1.000000
rad41	8.03574e-50	1.000000	8.03574e-50	1.000000

10.000000 Pa, 40.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.35697e-33 (1.00)	9.35697e-33 (1.00)
Formation of rad11	9.35644e-33 (1.000)	9.35644e-33 (1.000)
Formation of rad6	5.26139e-37 (5.62e-05)	5.26139e-37 (5.62e-05)
H-abstraction	1.44763e-44 (1.55e-12)	1.44763e-44 (1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.932376	0.932376	0.932376	0.932376
Indene+H	0.0463773	0.978753	0.0463773	0.978753
rad11	0.0122885	0.991042	0.0122885	0.991042
rad23	0.00760391	0.998646	0.00760391	0.998646
rad45	0.000424410	0.999070	0.000424410	0.999070
C2H2+PhCH2	0.000415706	0.999486	0.000415706	0.999486
rad7	0.000274727	0.999761	0.000274727	0.999761
rad22	0.000205072	0.999966	0.000205072	0.999966
rad36	2.64135e-05	0.999992	2.64135e-05	0.999992
PhCHCCH2+H	2.21150e-06	0.999994	2.21150e-06	0.999994
rad3	1.91778e-06	0.999996	1.91778e-06	0.999996
rad2	1.51446e-06	0.999998	1.51446e-06	0.999998
rad4	9.70007e-07	0.999999	9.70007e-07	0.999999
rad13	8.91442e-07	1.000000	8.91442e-07	1.000000
rad25	2.74421e-07	1.000000	2.74421e-07	1.000000
rad28	1.38488e-07	1.000000	1.38488e-07	1.000000
rad9	1.22422e-07	1.000000	1.22422e-07	1.000000
rad1	9.58974e-08	1.000000	9.58974e-08	1.000000
rad10	4.75506e-08	1.000000	4.75506e-08	1.000000
rad30	2.15283e-08	1.000000	2.15283e-08	1.000000
rad18	2.10063e-08	1.000000	2.10063e-08	1.000000
PhCCH+CH3	8.80075e-09	1.000000	8.80075e-09	1.000000
rad15	3.80303e-09	1.000000	3.80303e-09	1.000000
rad20	1.95386e-09	1.000000	1.95386e-09	1.000000
Phenyl+Allene	1.73176e-09	1.000000	0.00000	1.000000

rad21	1.20865e-09	1.00000	1.20865e-09	1.00000
rad33	1.04401e-09	1.00000	1.04401e-09	1.00000
PAH9+H	5.23105e-10	1.00000	5.23105e-10	1.00000
rad35	2.89058e-10	1.00000	2.89058e-10	1.00000
rad38	1.86009e-10	1.00000	1.86009e-10	1.00000
rad14	1.59086e-10	1.00000	1.59086e-10	1.00000
PhCCCH3+H	2.63293e-11	1.00000	2.63293e-11	1.00000
rad26	2.51638e-11	1.00000	2.51638e-11	1.00000
rad8	9.56091e-12	1.00000	9.56091e-12	1.00000
rad24	3.34460e-12	1.00000	3.34460e-12	1.00000
rad27	1.64395e-12	1.00000	1.64395e-12	1.00000
Benzene+2-propynyl	1.54712e-12	1.00000	1.54712e-12	1.00000
rad46	1.02794e-12	1.00000	1.02794e-12	1.00000
Ph+MeAc	4.71360e-13	1.00000	4.71360e-13	1.00000
rad60syn	1.34241e-13	1.00000	1.34241e-13	1.00000
PAH7+H	9.97133e-15	1.00000	9.97133e-15	1.00000
rad60anti	1.68387e-15	1.00000	1.68387e-15	1.00000
rad39	9.42318e-16	1.00000	9.42318e-16	1.00000
rad31	6.37732e-16	1.00000	6.37732e-16	1.00000
PhCH2CCH+H	1.41139e-16	1.00000	1.41139e-16	1.00000
rad12	1.24597e-18	1.00000	1.24597e-18	1.00000
rad37	1.53190e-22	1.00000	1.53190e-22	1.00000
rad5	9.41654e-23	1.00000	9.41654e-23	1.00000
rad50	1.25381e-24	1.00000	1.25381e-24	1.00000
PAH3+H	8.77896e-25	1.00000	8.77896e-25	1.00000
rad59	4.45674e-25	1.00000	4.45674e-25	1.00000
rad19syn	2.75223e-30	1.00000	2.75223e-30	1.00000
rad54	9.39231e-34	1.00000	9.39231e-34	1.00000
rad52	8.71241e-34	1.00000	8.71241e-34	1.00000
rad43	6.00042e-35	1.00000	6.00042e-35	1.00000
PAH10+CH3	2.84876e-35	1.00000	2.84876e-35	1.00000
rad62	2.49452e-36	1.00000	2.49452e-36	1.00000
rad51	5.04210e-39	1.00000	5.04210e-39	1.00000
rad70	4.10764e-40	1.00000	4.10764e-40	1.00000
PhcycC3H3_A+H	2.82542e-40	1.00000	2.82542e-40	1.00000
rad55	1.35202e-40	1.00000	1.35202e-40	1.00000
rad65	6.70501e-43	1.00000	6.70501e-43	1.00000
rad58	1.34528e-43	1.00000	1.34528e-43	1.00000
PAH1+H	2.61556e-44	1.00000	2.61556e-44	1.00000
rad34	1.33853e-45	1.00000	1.33853e-45	1.00000
rad42	1.19863e-48	1.00000	1.19863e-48	1.00000
rad47	8.73097e-49	1.00000	8.73097e-49	1.00000
rad41	2.37507e-49	1.00000	2.37507e-49	1.00000

10.000000 Pa, 50.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.52690e-29 (1.00)	5.52690e-29 (1.00)
Formation of rad11	5.52459e-29 (1.000)	5.52459e-29 (1.000)
Formation of rad6	2.30840e-32 (0.000418)	2.30840e-32 (0.000418)
H-abstraction	3.35357e-38 (6.07e-10)	3.35357e-38 (6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.938231	0.938231	0.938231	0.938231
Indene+H	0.0482592	0.986490	0.0482592	0.986490
rad23	0.00707504	0.993565	0.00707504	0.993565
rad11	0.00524839	0.998814	0.00524839	0.998814
C2H2+PhCH2	0.000443603	0.999257	0.000443603	0.999257
rad45	0.000368221	0.999625	0.000368221	0.999625
rad7	0.000263079	0.999889	0.000263079	0.999889
rad22	7.87260e-05	0.999967	7.87260e-05	0.999967
rad36	2.28986e-05	0.999990	2.28986e-05	0.999990
rad2	2.54992e-06	0.999993	2.54992e-06	0.999993
PhCHCCH2+H	2.47431e-06	0.999995	2.47431e-06	0.999995
rad3	2.28651e-06	0.999997	2.28651e-06	0.999997
rad4	1.15702e-06	0.999999	1.15702e-06	0.999999
rad13	8.37609e-07	0.999999	8.37609e-07	0.999999
rad28	2.01331e-07	1.000000	2.01331e-07	1.000000
rad1	1.61745e-07	1.000000	1.61745e-07	1.000000
rad9	1.39462e-07	1.000000	1.39462e-07	1.000000
rad25	1.38705e-07	1.000000	1.38705e-07	1.000000
rad10	9.74908e-08	1.000000	9.74908e-08	1.000000
rad30	2.33390e-08	1.000000	2.33390e-08	1.000000
PhCCH+CH3	1.60566e-08	1.000000	1.60566e-08	1.000000
rad18	5.34739e-09	1.000000	5.34739e-09	1.000000
rad15	4.16596e-09	1.000000	4.16596e-09	1.000000
Phenyl+Allene	2.89487e-09	1.000000	0.000000	1.000000
rad33	9.93768e-10	1.000000	9.93768e-10	1.000000

PAH9+H	7.59795e-10	1.00000	7.59795e-10	1.00000
Benzene+2-propynyl	6.06773e-10	1.00000	6.06773e-10	1.00000
rad20	5.12214e-10	1.00000	5.12214e-10	1.00000
rad35	4.16931e-10	1.00000	4.16931e-10	1.00000
rad21	3.17858e-10	1.00000	3.17858e-10	1.00000
rad38	2.49603e-10	1.00000	2.49603e-10	1.00000
rad14	2.06787e-10	1.00000	2.06787e-10	1.00000
rad26	7.40589e-11	1.00000	7.40589e-11	1.00000
PhCCCH3+H	6.56102e-11	1.00000	6.56102e-11	1.00000
rad8	1.28736e-11	1.00000	1.28736e-11	1.00000
rad24	2.88048e-12	1.00000	2.88048e-12	1.00000
rad27	2.65969e-12	1.00000	2.65969e-12	1.00000
rad46	1.42277e-12	1.00000	1.42277e-12	1.00000
Ph+MeAc	1.20153e-12	1.00000	1.20153e-12	1.00000
rad60syn	1.66124e-13	1.00000	1.66124e-13	1.00000
PAH7+H	2.19828e-14	1.00000	2.19828e-14	1.00000
rad60anti	3.97997e-15	1.00000	3.97997e-15	1.00000
rad39	2.16741e-15	1.00000	2.16741e-15	1.00000
rad31	7.84011e-16	1.00000	7.84011e-16	1.00000
PhCH2CCH+H	2.21743e-16	1.00000	2.21743e-16	1.00000
rad12	5.53349e-18	1.00000	5.53349e-18	1.00000
rad37	7.64119e-22	1.00000	7.64119e-22	1.00000
rad5	3.29976e-22	1.00000	3.29976e-22	1.00000
rad50	2.54357e-24	1.00000	2.54357e-24	1.00000
PAH3+H	1.73162e-24	1.00000	1.73162e-24	1.00000
rad59	8.68313e-25	1.00000	8.68313e-25	1.00000
rad19syn	7.50722e-30	1.00000	7.50722e-30	1.00000
rad54	2.66026e-33	1.00000	2.66026e-33	1.00000
rad52	1.65960e-33	1.00000	1.65960e-33	1.00000
rad43	2.33629e-34	1.00000	2.33629e-34	1.00000
PAH10+CH3	1.45192e-34	1.00000	1.45192e-34	1.00000
rad62	8.00136e-36	1.00000	8.00136e-36	1.00000
rad51	1.17661e-38	1.00000	1.17661e-38	1.00000
rad70	1.25506e-39	1.00000	1.25506e-39	1.00000
PhcycC3H3_A+H	8.68185e-40	1.00000	8.68185e-40	1.00000
rad55	4.14319e-40	1.00000	4.14319e-40	1.00000
rad65	1.84512e-42	1.00000	1.84512e-42	1.00000
rad58	4.14989e-43	1.00000	4.14989e-43	1.00000
PAH1+H	1.02525e-43	1.00000	1.02525e-43	1.00000
rad34	4.33929e-45	1.00000	4.33929e-45	1.00000
rad42	4.06430e-48	1.00000	4.06430e-48	1.00000
rad47	2.11487e-48	1.00000	2.11487e-48	1.00000
rad41	8.37451e-49	1.00000	8.37451e-49	1.00000

10.000000 Pa, 60.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.83429e-26 (1.00)	1.83429e-26 (1.00)
Formation of rad11	1.83139e-26 (0.998)	1.83139e-26 (0.998)
Formation of rad6	2.90471e-29 (0.00158)	2.90471e-29 (0.00158)
H-abstraction	5.71259e-34 (3.11e-08)	5.71259e-34 (3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.940156	0.940156	0.940156	0.940156
Indene+H	0.0496507	0.989807	0.0496507	0.989807
rad23	0.00651207	0.996319	0.00651207	0.996319
rad11	0.00256955	0.998888	0.00256955	0.998888
C2H2+PhCH2	0.000467267	0.999356	0.000467267	0.999356
rad45	0.000321770	0.999677	0.000321770	0.999677
rad7	0.000253353	0.999931	0.000253353	0.999931
rad22	3.70733e-05	0.999968	3.70733e-05	0.999968
rad36	1.99934e-05	0.999988	1.99934e-05	0.999988
rad2	3.77412e-06	0.999992	3.77412e-06	0.999992
PhCHCCH2+H	2.73157e-06	0.999994	2.73157e-06	0.999994
rad3	2.55110e-06	0.999997	2.55110e-06	0.999997
rad4	1.29161e-06	0.999998	1.29161e-06	0.999998
rad13	7.98533e-07	0.999999	7.98533e-07	0.999999
rad28	2.71708e-07	0.999999	2.71708e-07	0.999999
rad1	2.39913e-07	0.999999	2.39913e-07	0.999999
rad10	1.66053e-07	1.000000	1.66053e-07	1.000000
rad9	1.56847e-07	1.000000	1.56847e-07	1.000000
rad25	7.77760e-08	1.000000	7.77760e-08	1.000000
Benzene+2-propynyl	3.11432e-08	1.000000	3.11432e-08	1.000000
PhCCH+CH3	2.59073e-08	1.000000	2.59073e-08	1.000000
rad30	2.49442e-08	1.000000	2.49442e-08	1.000000
Phenyl+Allene	4.71326e-09	1.000000	0.000000	1.000000
rad15	4.49784e-09	1.000000	4.49784e-09	1.000000
rad18	1.74960e-09	1.000000	1.74960e-09	1.000000

PAH9+H	1.00961e-09	1.000000	1.00961e-09	1.000000
rad33	9.59048e-10	1.000000	9.59048e-10	1.000000
rad35	5.50212e-10	1.000000	5.50212e-10	1.000000
rad38	3.16168e-10	1.000000	3.16168e-10	1.000000
rad14	2.43765e-10	1.000000	2.43765e-10	1.000000
rad20	1.76514e-10	1.000000	1.76514e-10	1.000000
rad26	1.72182e-10	1.000000	1.72182e-10	1.000000
PhCCCH3+H	1.37287e-10	1.000000	1.37287e-10	1.000000
rad21	1.09941e-10	1.000000	1.09941e-10	1.000000
rad8	1.73099e-11	1.000000	1.73099e-11	1.000000
rad27	3.81762e-12	1.000000	3.81762e-12	1.000000
Ph+MeAc	2.74194e-12	1.000000	2.74194e-12	1.000000
rad24	2.51029e-12	1.000000	2.51029e-12	1.000000
rad46	1.86587e-12	1.000000	1.86587e-12	1.000000
rad60syn	2.06900e-13	1.000000	2.06900e-13	1.000000
PAH7+H	4.34762e-14	1.000000	4.34762e-14	1.000000
rad60anti	9.35973e-15	1.000000	9.35973e-15	1.000000
rad39	4.51964e-15	1.000000	4.51964e-15	1.000000
rad31	9.06929e-16	1.000000	9.06929e-16	1.000000
PhCH2CCH+H	5.83237e-16	1.000000	5.83237e-16	1.000000
rad12	1.93372e-17	1.000000	1.93372e-17	1.000000
rad37	3.72419e-21	1.000000	3.72419e-21	1.000000
rad5	1.29073e-21	1.000000	1.29073e-21	1.000000
rad50	6.05720e-24	1.000000	6.05720e-24	1.000000
PAH3+H	4.91363e-24	1.000000	4.91363e-24	1.000000
rad59	2.44838e-24	1.000000	2.44838e-24	1.000000
rad19syn	2.59435e-29	1.000000	2.59435e-29	1.000000
rad54	9.62304e-33	1.000000	9.62304e-33	1.000000
rad52	4.18982e-33	1.000000	4.18982e-33	1.000000
rad43	1.13311e-33	1.000000	1.13311e-33	1.000000
PAH10+CH3	8.55152e-34	1.000000	8.55152e-34	1.000000
rad62	3.32732e-35	1.000000	3.32732e-35	1.000000
rad51	3.92501e-38	1.000000	3.92501e-38	1.000000
rad70	4.97445e-39	1.000000	4.97445e-39	1.000000
PhcycC3H3_A+H	3.46580e-39	1.000000	3.46580e-39	1.000000
rad55	1.64863e-39	1.000000	1.64863e-39	1.000000
rad65	6.99542e-42	1.000000	6.99542e-42	1.000000
rad58	1.66420e-42	1.000000	1.66420e-42	1.000000
PAH1+H	4.96920e-43	1.000000	4.96920e-43	1.000000
rad34	1.84952e-44	1.000000	1.84952e-44	1.000000
rad42	1.82539e-47	1.000000	1.82539e-47	1.000000
rad47	7.18549e-48	1.000000	7.18549e-48	1.000000
rad41	3.91546e-48	1.000000	3.91546e-48	1.000000

10.000000 Pa, 70.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17336e-24 (1.00)	1.17336e-24 (1.00)
Formation of rad11	1.16857e-24 (0.996)	1.16857e-24 (0.996)
Formation of rad6	4.79505e-27 (0.00409)	4.79505e-27 (0.00409)
H-abstraction	5.89821e-31 (5.03e-07)	5.89821e-31 (5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.940815	0.940815	0.940815	0.940815
Indene+H	0.0507621	0.991577	0.0507621	0.991577
rad23	0.00595966	0.997536	0.00595966	0.997536
rad11	0.00139404	0.998930	0.00139404	0.998930
C2H2+PhCH2	0.000488892	0.999419	0.000488892	0.999419
rad45	0.000282643	0.999702	0.000282643	0.999702
rad7	0.000245448	0.999947	0.000245448	0.999947
rad22	2.07516e-05	0.999968	2.07516e-05	0.999968
rad36	1.75484e-05	0.999986	1.75484e-05	0.999986
rad2	5.18460e-06	0.999991	5.18460e-06	0.999991
PhCHCCH2+H	2.99572e-06	0.999994	2.99572e-06	0.999994
rad3	2.74355e-06	0.999997	2.74355e-06	0.999997
rad4	1.38993e-06	0.999998	1.38993e-06	0.999998
rad13	7.68862e-07	0.999999	7.68862e-07	0.999999
Benzene+2-propynyl	5.02676e-07	0.999999	5.02676e-07	0.999999
rad28	3.51695e-07	1.000000	3.51695e-07	1.000000
rad1	3.30395e-07	1.000000	3.30395e-07	1.000000
rad10	2.53669e-07	1.000000	2.53669e-07	1.000000
rad9	1.75302e-07	1.000000	1.75302e-07	1.000000
rad25	4.69732e-08	1.000000	4.69732e-08	1.000000
PhCCH+CH3	3.90343e-08	1.000000	3.90343e-08	1.000000
rad30	2.64676e-08	1.000000	2.64676e-08	1.000000
Phenyl+Allene	7.37482e-09	1.000000	0.000000	1.000000
rad15	4.82113e-09	1.000000	4.82113e-09	1.000000
PAH9+H	1.27401e-09	1.000000	1.27401e-09	1.000000

rad33	9.34023e-10	1.00000	9.34023e-10	1.00000
rad35	6.89486e-10	1.00000	6.89486e-10	1.00000
rad18	6.85909e-10	1.00000	6.85909e-10	1.00000
rad38	3.86670e-10	1.00000	3.86670e-10	1.00000
rad26	3.49608e-10	1.00000	3.49608e-10	1.00000
rad14	2.72189e-10	1.00000	2.72189e-10	1.00000
PhCCCH3+H	2.60923e-10	1.00000	2.60923e-10	1.00000
rad20	7.41425e-11	1.00000	7.41425e-11	1.00000
rad21	4.63756e-11	1.00000	4.63756e-11	1.00000
rad8	2.32036e-11	1.00000	2.32036e-11	1.00000
Ph+MeAc	5.91835e-12	1.00000	5.91835e-12	1.00000
rad27	5.11703e-12	1.00000	5.11703e-12	1.00000
rad46	2.36970e-12	1.00000	2.36970e-12	1.00000
rad24	2.20467e-12	1.00000	2.20467e-12	1.00000
rad60syn	2.58526e-13	1.00000	2.58526e-13	1.00000
PAH7+H	8.18097e-14	1.00000	8.18097e-14	1.00000
rad60anti	1.89001e-14	1.00000	1.89001e-14	1.00000
rad39	9.04664e-15	1.00000	9.04664e-15	1.00000
PhCH2CCH+H	3.62590e-15	1.00000	3.62590e-15	1.00000
rad31	1.01642e-15	1.00000	1.01642e-15	1.00000
rad12	6.00999e-17	1.00000	6.00999e-17	1.00000
rad37	1.99858e-20	1.00000	1.99858e-20	1.00000
rad5	6.16826e-21	1.00000	6.16826e-21	1.00000
PAH3+H	2.39488e-23	1.00000	2.39488e-23	1.00000
rad50	1.84691e-23	1.00000	1.84691e-23	1.00000
rad59	1.20173e-23	1.00000	1.20173e-23	1.00000
rad19syn	1.26235e-28	1.00000	1.26235e-28	1.00000
rad54	4.92794e-32	1.00000	4.92794e-32	1.00000
rad52	1.54002e-32	1.00000	1.54002e-32	1.00000
rad43	7.69736e-33	1.00000	7.69736e-33	1.00000
PAH10+CH3	6.70591e-33	1.00000	6.70591e-33	1.00000
rad62	1.99699e-34	1.00000	1.99699e-34	1.00000
rad51	1.96525e-37	1.00000	1.96525e-37	1.00000
rad70	2.82130e-38	1.00000	2.82130e-38	1.00000
PhcycC3H3_A+H	1.98182e-38	1.00000	1.98182e-38	1.00000
rad55	9.39299e-39	1.00000	9.39299e-39	1.00000
rad65	3.87132e-41	1.00000	3.87132e-41	1.00000
rad58	9.56411e-42	1.00000	9.56411e-42	1.00000
PAH1+H	3.35205e-42	1.00000	3.35205e-42	1.00000
rad34	1.13847e-43	1.00000	1.13847e-43	1.00000
rad42	1.19449e-46	1.00000	1.19449e-46	1.00000
rad47	3.65204e-47	1.00000	3.65204e-47	1.00000
rad41	2.68397e-47	1.00000	2.68397e-47	1.00000

10.000000 Pa, 80.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.68112e-23 (1.00)	2.68112e-23 (1.00)
Formation of rad11	2.65890e-23 (0.992)	2.65890e-23 (0.992)
Formation of rad6	2.22189e-25 (0.00829)	2.22189e-25 (0.00829)
H-abstraction	1.05871e-28 (3.95e-06)	1.05871e-28 (3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.941038	0.941038	0.941038	0.941038
Indene+H	0.0516618	0.992700	0.0516618	0.992700
rad23	0.00543073	0.998131	0.00543073	0.998131
rad11	0.000822107	0.998953	0.000822107	0.998953
C2H2+PhCH2	0.000509404	0.999462	0.000509404	0.999462
rad45	0.000249028	0.999711	0.000249028	0.999711
rad7	0.000238956	0.999950	0.000238956	0.999950
rad36	1.54508e-05	0.999966	1.54508e-05	0.999966
rad22	1.33706e-05	0.999979	1.33706e-05	0.999979
rad2	6.79584e-06	0.999986	6.79584e-06	0.999986
Benzene+2-propynyl	3.94877e-06	0.999990	3.94877e-06	0.999990
PhCHCCH2+H	3.27387e-06	0.999993	3.27387e-06	0.999993
rad3	2.88537e-06	0.999996	2.88537e-06	0.999996
rad4	1.46282e-06	0.999997	1.46282e-06	0.999997
rad13	7.45494e-07	0.999998	7.45494e-07	0.999998
rad28	4.44058e-07	0.999999	4.44058e-07	0.999999
rad1	4.34280e-07	0.999999	4.34280e-07	0.999999
rad10	3.61428e-07	0.999999	3.61428e-07	0.999999
rad9	1.95291e-07	1.000000	1.95291e-07	1.000000
PhCCH+CH3	5.64948e-08	1.000000	5.64948e-08	1.000000
rad25	2.99973e-08	1.000000	2.99973e-08	1.000000
rad30	2.79656e-08	1.000000	2.79656e-08	1.000000
Phenyl+Allene	1.11406e-08	1.000000	0.000000	1.000000
rad15	5.14667e-09	1.000000	5.14667e-09	1.000000
PAH9+H	1.55511e-09	1.000000	1.55511e-09	1.000000

rad33	9.15395e-10	1.000000	9.15395e-10	1.000000
rad35	8.35639e-10	1.000000	8.35639e-10	1.000000
rad26	6.53102e-10	1.000000	6.53102e-10	1.000000
PhCCCH3+H	4.69411e-10	1.000000	4.69411e-10	1.000000
rad38	4.61995e-10	1.000000	4.61995e-10	1.000000
rad18	3.09869e-10	1.000000	3.09869e-10	1.000000
rad14	2.94012e-10	1.000000	2.94012e-10	1.000000
rad20	3.64264e-11	1.000000	3.64264e-11	1.000000
rad8	3.11003e-11	1.000000	3.11003e-11	1.000000
rad21	2.28947e-11	1.000000	2.28947e-11	1.000000
Ph+MeAc	1.24105e-11	1.000000	1.24105e-11	1.000000
rad27	6.57263e-12	1.000000	6.57263e-12	1.000000
rad46	2.94857e-12	1.000000	2.94857e-12	1.000000
rad24	1.94525e-12	1.000000	1.94525e-12	1.000000
rad60syn	3.23037e-13	1.000000	3.23037e-13	1.000000
PAH7+H	1.51271e-13	1.000000	1.51271e-13	1.000000
rad60anti	3.33946e-14	1.000000	3.33946e-14	1.000000
PhCH2CCH+H	3.17205e-14	1.000000	3.17205e-14	1.000000
rad39	1.79014e-14	1.000000	1.79014e-14	1.000000
rad31	1.11950e-15	1.000000	1.11950e-15	1.000000
rad12	1.76383e-16	1.000000	1.76383e-16	1.000000
rad37	1.16751e-19	1.000000	1.16751e-19	1.000000
rad5	3.50733e-20	1.000000	3.50733e-20	1.000000
PAH3+H	3.14771e-22	1.000000	3.14771e-22	1.000000
rad59	1.60957e-22	1.000000	1.60957e-22	1.000000
rad50	8.32624e-23	1.000000	8.32624e-23	1.000000
rad19syn	9.30113e-28	1.000000	9.30113e-28	1.000000
rad54	3.83527e-31	1.000000	3.83527e-31	1.000000
rad52	9.41087e-32	1.000000	9.41087e-32	1.000000
rad43	7.69150e-32	1.000000	7.69150e-32	1.000000
PAH10+CH3	7.41951e-32	1.000000	7.41951e-32	1.000000
rad62	1.83831e-33	1.000000	1.83831e-33	1.000000
rad51	1.55624e-36	1.000000	1.55624e-36	1.000000
rad70	2.45019e-37	1.000000	2.45019e-37	1.000000
PhcycC3H3_A+H	1.73657e-37	1.000000	1.73657e-37	1.000000
rad55	8.19811e-38	1.000000	8.19811e-38	1.000000
rad65	3.31026e-40	1.000000	3.31026e-40	1.000000
rad58	8.42546e-41	1.000000	8.42546e-41	1.000000
PAH1+H	3.40030e-41	1.000000	3.40030e-41	1.000000
rad34	1.08004e-42	1.000000	1.08004e-42	1.000000
rad42	1.21768e-45	1.000000	1.21768e-45	1.000000
rad47	2.92787e-46	1.000000	2.92787e-46	1.000000
rad41	2.89470e-46	1.000000	2.89470e-46	1.000000

10.000000 Pa, 90.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.08379e-22 (1.00)	3.08379e-22 (1.00)
Formation of rad11	3.03962e-22 (0.986)	3.03962e-22 (0.986)
Formation of rad6	4.41076e-24 (0.0143)	4.41076e-24 (0.0143)
H-abstraction	5.92916e-27 (1.92e-05)	5.92916e-27 (1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.941122	0.941122	0.941122	0.941122
Indene+H	0.0523829	0.993505	0.0523829	0.993505
rad23	0.00492954	0.998434	0.00492954	0.998434
C2H2+PhCH2	0.000529372	0.998964	0.000529372	0.998964
rad11	0.000521081	0.999485	0.000521081	0.999485
rad7	0.000233533	0.999718	0.000233533	0.999718
rad45	0.000219712	0.999938	0.000219712	0.999938
Benzene+2-propynyl	1.92269e-05	0.999957	1.92269e-05	0.999957
rad36	1.36243e-05	0.999971	1.36243e-05	0.999971
rad22	9.57842e-06	0.999980	9.57842e-06	0.999980
rad2	8.63555e-06	0.999989	8.63555e-06	0.999989
PhCHCCH2+H	3.57231e-06	0.999993	3.57231e-06	0.999993
rad3	2.99135e-06	0.999996	2.99135e-06	0.999996
rad4	1.51776e-06	0.999997	1.51776e-06	0.999997
rad13	7.26557e-07	0.999998	7.26557e-07	0.999998
rad1	5.53541e-07	0.999998	5.53541e-07	0.999998
rad28	5.52360e-07	0.999999	5.52360e-07	0.999999
rad10	4.91180e-07	1.000000	4.91180e-07	1.000000
rad9	2.17272e-07	1.000000	2.17272e-07	1.000000
PhCCH+CH3	7.98306e-08	1.000000	7.98306e-08	1.000000
rad30	2.94760e-08	1.000000	2.94760e-08	1.000000
rad25	2.00084e-08	1.000000	2.00084e-08	1.000000
Phenyl+Allene	1.63667e-08	1.000000	0.00000	1.000000
rad15	5.48234e-09	1.000000	5.48234e-09	1.000000
PAH9+H	1.85604e-09	1.000000	1.85604e-09	1.000000

rad26	1.15629e-09	1.000000	1.15629e-09	1.000000
rad35	9.89980e-10	1.000000	9.89980e-10	1.000000
rad33	9.01213e-10	1.000000	9.01213e-10	1.000000
PhCCCH3+H	8.18299e-10	1.000000	8.18299e-10	1.000000
rad38	5.43223e-10	1.000000	5.43223e-10	1.000000
rad14	3.10802e-10	1.000000	3.10802e-10	1.000000
rad18	1.57516e-10	1.000000	1.57516e-10	1.000000
rad8	4.18980e-11	1.000000	4.18980e-11	1.000000
Ph+MeAc	2.55689e-11	1.000000	2.55689e-11	1.000000
rad20	2.03777e-11	1.000000	2.03777e-11	1.000000
rad21	1.28751e-11	1.000000	1.28751e-11	1.000000
rad27	8.21034e-12	1.000000	8.21034e-12	1.000000
rad46	3.62103e-12	1.000000	3.62103e-12	1.000000
rad24	1.72062e-12	1.000000	1.72062e-12	1.000000
rad60syn	4.03765e-13	1.000000	4.03765e-13	1.000000
PAH7+H	2.79799e-13	1.000000	2.79799e-13	1.000000
PhCH2CCH+H	2.16883e-13	1.000000	2.16883e-13	1.000000
rad60anti	5.37337e-14	1.000000	5.37337e-14	1.000000
rad39	3.54841e-14	1.000000	3.54841e-14	1.000000
rad31	1.22158e-15	1.000000	1.22158e-15	1.000000
rad12	5.01848e-16	1.000000	5.01848e-16	1.000000
rad37	6.82332e-19	1.000000	6.82332e-19	1.000000
rad5	2.12009e-19	1.000000	2.12009e-19	1.000000
PAH3+H	5.63551e-21	1.000000	5.63551e-21	1.000000
rad59	2.83598e-21	1.000000	2.83598e-21	1.000000
rad50	5.45877e-22	1.000000	5.45877e-22	1.000000
rad19syn	1.17650e-26	1.000000	1.17650e-26	1.000000
rad54	5.19245e-30	1.000000	5.19245e-30	1.000000
PAH10+CH3	1.19734e-30	1.000000	1.19734e-30	1.000000
rad52	1.19539e-30	1.000000	1.19539e-30	1.000000
rad43	1.17017e-30	1.000000	1.17017e-30	1.000000
rad62	2.80110e-32	1.000000	2.80110e-32	1.000000
rad51	2.20858e-35	1.000000	2.20858e-35	1.000000
rad70	3.71454e-36	1.000000	3.71454e-36	1.000000
PhcycC3H3_A+H	2.65778e-36	1.000000	2.65778e-36	1.000000
rad55	1.24940e-36	1.000000	1.24940e-36	1.000000
rad65	4.97039e-39	1.000000	4.97039e-39	1.000000
rad58	1.29671e-39	1.000000	1.29671e-39	1.000000
PAH1+H	5.93332e-40	1.000000	5.93332e-40	1.000000
rad34	1.79692e-41	1.000000	1.79692e-41	1.000000
rad42	2.19585e-44	1.000000	2.19585e-44	1.000000
rad41	5.55815e-45	1.000000	5.55815e-45	1.000000
rad47	4.18765e-45	1.000000	4.18765e-45	1.000000

10.000000 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14498e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.941159	0.941159	0.941159	0.941159
Indene+H	0.0529501	0.994109	0.0529501	0.994109
rad23	0.00445773	0.998567	0.00445773	0.998567
C2H2+PhCH2	0.000549252	0.999116	0.000549252	0.999116
rad11	0.000352521	0.999469	0.000352521	0.999469
rad7	0.000228923	0.999697	0.000228923	0.999697
rad45	0.000193880	0.999891	0.000193880	0.999891
Benzene+2-propynyl	6.70630e-05	0.999958	6.70630e-05	0.999958
rad36	1.20177e-05	0.999970	1.20177e-05	0.999970
rad2	1.07418e-05	0.999981	1.07418e-05	0.999981
rad22	7.38727e-06	0.999989	7.38727e-06	0.999989
PhCHCCH2+H	3.89773e-06	0.999992	3.89773e-06	0.999992
rad3	3.07190e-06	0.999996	3.07190e-06	0.999996
rad4	1.56001e-06	0.999997	1.56001e-06	0.999997
rad13	7.10848e-07	0.999998	7.10848e-07	0.999998
rad1	6.90869e-07	0.999998	6.90869e-07	0.999998
rad28	6.81017e-07	0.999999	6.81017e-07	0.999999
rad10	6.45490e-07	1.000000	6.45490e-07	1.000000
rad9	2.41756e-07	1.000000	2.41756e-07	1.000000
PhCCH+CH3	1.11204e-07	1.000000	1.11204e-07	1.000000
rad30	3.10319e-08	1.000000	3.10319e-08	1.000000
Phenyl+Allene	2.35238e-08	1.000000	0.000000	1.000000
rad25	1.38229e-08	1.000000	1.38229e-08	1.000000
rad15	5.83541e-09	1.000000	5.83541e-09	1.000000
PAH9+H	2.18094e-09	1.000000	2.18094e-09	1.000000

rad26	1.97438e-09	1.00000	1.97438e-09	1.00000
PhCCCH3+H	1.40064e-09	1.00000	1.40064e-09	1.00000
rad35	1.15427e-09	1.00000	1.15427e-09	1.00000
rad33	8.90237e-10	1.00000	8.90237e-10	1.00000
rad38	6.31701e-10	1.00000	6.31701e-10	1.00000
rad14	3.23774e-10	1.00000	3.23774e-10	1.00000
rad18	8.86335e-11	1.00000	8.86335e-11	1.00000
rad8	5.70393e-11	1.00000	5.70393e-11	1.00000
Ph+MeAc	5.19461e-11	1.00000	5.19461e-11	1.00000
rad20	1.27023e-11	1.00000	1.27023e-11	1.00000
rad27	1.00641e-11	1.00000	1.00641e-11	1.00000
rad21	8.06801e-12	1.00000	8.06801e-12	1.00000
rad46	4.41121e-12	1.00000	4.41121e-12	1.00000
rad24	1.52344e-12	1.00000	1.52344e-12	1.00000
PhCH2CCH+H	1.08969e-12	1.00000	1.08969e-12	1.00000
PAH7+H	5.22256e-13	1.00000	5.22256e-13	1.00000
rad60syn	5.05580e-13	1.00000	5.05580e-13	1.00000
rad60anti	8.12206e-14	1.00000	8.12206e-14	1.00000
rad39	7.07151e-14	1.00000	7.07151e-14	1.00000
rad12	1.39753e-15	1.00000	1.39753e-15	1.00000
rad31	1.32718e-15	1.00000	1.32718e-15	1.00000
rad37	3.71056e-18	1.00000	3.71056e-18	1.00000
rad5	1.22135e-18	1.00000	1.22135e-18	1.00000
PAH3+H	7.00020e-20	1.00000	7.00020e-20	1.00000
rad59	3.40358e-20	1.00000	3.40358e-20	1.00000
rad50	3.82591e-21	1.00000	3.82591e-21	1.00000
rad19syn	2.66226e-25	1.00000	2.66226e-25	1.00000
rad54	1.49921e-28	1.00000	1.49921e-28	1.00000
rad52	3.30138e-29	1.00000	3.30138e-29	1.00000
PAH10+CH3	2.86297e-29	1.00000	2.86297e-29	1.00000
rad43	2.77706e-29	1.00000	2.77706e-29	1.00000
rad62	8.06192e-31	1.00000	8.06192e-31	1.00000
rad51	7.12351e-34	1.00000	7.12351e-34	1.00000
rad70	1.26172e-34	1.00000	1.26172e-34	1.00000
PhcycC3H3_A+H	9.11723e-35	1.00000	9.11723e-35	1.00000
rad55	4.26690e-35	1.00000	4.26690e-35	1.00000
rad65	1.67677e-37	1.00000	1.67677e-37	1.00000
rad58	4.47383e-38	1.00000	4.47383e-38	1.00000
PAH1+H	2.27267e-38	1.00000	2.27267e-38	1.00000
rad34	6.71995e-40	1.00000	6.71995e-40	1.00000
rad42	8.81916e-43	1.00000	8.81916e-43	1.00000
rad41	2.33913e-43	1.00000	2.33913e-43	1.00000
rad47	1.36461e-43	1.00000	1.36461e-43	1.00000

10.000000 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06527e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44008e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.941153	0.941153	0.941153	0.941153
Indene+H	0.0533865	0.994540	0.0533865	0.994540
rad23	0.00401598	0.998556	0.00401598	0.998556
C2H2+PhCH2	0.000569458	0.999125	0.000569458	0.999125
rad11	0.000253288	0.999378	0.000253288	0.999378
rad7	0.000224934	0.999603	0.000224934	0.999603
Benzene+2-propynyl	0.000183695	0.999787	0.000183695	0.999787
rad45	0.000170970	0.999958	0.000170970	0.999958
rad2	1.31611e-05	0.999971	1.31611e-05	0.999971
rad36	1.05951e-05	0.999982	1.05951e-05	0.999982
rad22	5.97964e-06	0.999988	5.97964e-06	0.999988
PhCHCCH2+H	4.25738e-06	0.999992	4.25738e-06	0.999992
rad3	3.13448e-06	0.999995	3.13448e-06	0.999995
rad4	1.59334e-06	0.999997	1.59334e-06	0.999997
rad1	8.49578e-07	0.999997	8.49578e-07	0.999997
rad28	8.35422e-07	0.999998	8.35422e-07	0.999998
rad10	8.27567e-07	0.999999	8.27567e-07	0.999999
rad13	6.97555e-07	1.000000	6.97555e-07	1.000000
rad9	2.69324e-07	1.000000	2.69324e-07	1.000000
PhCCH+CH3	1.53594e-07	1.000000	1.53594e-07	1.000000
Phenyl+Allene	3.32245e-08	1.000000	0.000000	1.000000
rad30	3.26644e-08	1.000000	3.26644e-08	1.000000
rad25	9.83389e-09	1.000000	9.83389e-09	1.000000
rad15	6.21313e-09	1.000000	6.21313e-09	1.000000
rad26	3.28595e-09	1.000000	3.28595e-09	1.000000

PAH9+H	2.53497e-09	1.00000	2.53497e-09	1.00000
PhCCCH3+H	2.37120e-09	1.00000	2.37120e-09	1.00000
rad35	1.33069e-09	1.00000	1.33069e-09	1.00000
rad33	8.81638e-10	1.00000	8.81638e-10	1.00000
rad38	7.29067e-10	1.00000	7.29067e-10	1.00000
rad14	3.33859e-10	1.00000	3.33859e-10	1.00000
Ph+MeAc	1.04177e-10	1.00000	1.04177e-10	1.00000
rad8	7.88325e-11	1.00000	7.88325e-11	1.00000
rad18	5.44813e-11	1.00000	5.44813e-11	1.00000
rad27	1.21747e-11	1.00000	1.21747e-11	1.00000
rad20	8.64812e-12	1.00000	8.64812e-12	1.00000
rad21	5.51996e-12	1.00000	5.51996e-12	1.00000
rad46	5.34998e-12	1.00000	5.34998e-12	1.00000
PhCH2CCH+H	4.25526e-12	1.00000	4.25526e-12	1.00000
rad24	1.34885e-12	1.00000	1.34885e-12	1.00000
PAH7+H	9.86839e-13	1.00000	9.86839e-13	1.00000
rad60syn	6.34947e-13	1.00000	6.34947e-13	1.00000
rad39	1.41622e-13	1.00000	1.41622e-13	1.00000
rad60anti	1.17778e-13	1.00000	1.17778e-13	1.00000
rad12	3.82189e-15	1.00000	3.82189e-15	1.00000
rad31	1.44047e-15	1.00000	1.44047e-15	1.00000
rad37	1.81896e-17	1.00000	1.81896e-17	1.00000
rad5	6.32690e-18	1.00000	6.32690e-18	1.00000
PAH3+H	5.80707e-19	1.00000	5.80707e-19	1.00000
rad59	2.71168e-19	1.00000	2.71168e-19	1.00000
rad50	2.30374e-20	1.00000	2.30374e-20	1.00000
rad19syn	6.98232e-24	1.00000	6.98232e-24	1.00000
rad54	6.43719e-27	1.00000	6.43719e-27	1.00000
rad52	1.01633e-27	1.00000	1.01633e-27	1.00000
PAH10+CH3	8.69613e-28	1.00000	8.69613e-28	1.00000
rad43	8.58328e-28	1.00000	8.58328e-28	1.00000
rad62	3.75183e-29	1.00000	3.75183e-29	1.00000
rad51	4.52610e-32	1.00000	4.52610e-32	1.00000
rad70	9.66730e-33	1.00000	9.66730e-33	1.00000
PhcycC3H3_A+H	7.05658e-33	1.00000	7.05658e-33	1.00000
rad55	3.28723e-33	1.00000	3.28723e-33	1.00000
rad65	1.28224e-35	1.00000	1.28224e-35	1.00000
rad58	3.48312e-36	1.00000	3.48312e-36	1.00000
PAH1+H	1.90567e-36	1.00000	1.90567e-36	1.00000
rad34	5.68122e-38	1.00000	5.68122e-38	1.00000
rad42	7.83012e-41	1.00000	7.83012e-41	1.00000
rad41	2.11319e-41	1.00000	2.11319e-41	1.00000
rad47	1.01376e-41	1.00000	1.01376e-41	1.00000

10.000000 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.941063	0.941063	0.941063	0.941063
Indene+H	0.0537136	0.994776	0.0537136	0.994776
rad23	0.00360442	0.998381	0.00360442	0.998381
C2H2+PhCH2	0.000590378	0.998971	0.000590378	0.998971
Benzene+2-propynyl	0.000420064	0.999391	0.000420064	0.999391
rad7	0.000221422	0.999612	0.000221422	0.999612
rad11	0.000192389	0.999805	0.000192389	0.999805
rad45	0.000150571	0.999955	0.000150571	0.999955
rad2	1.59479e-05	0.999971	1.59479e-05	0.999971
rad36	9.33051e-06	0.999981	9.33051e-06	0.999981
rad22	4.98969e-06	0.999986	4.98969e-06	0.999986
PhCHCCH2+H	4.65941e-06	0.999990	4.65941e-06	0.999990
rad3	3.18462e-06	0.999994	3.18462e-06	0.999994
rad4	1.62055e-06	0.999995	1.62055e-06	0.999995
rad10	1.04124e-06	0.999996	1.04124e-06	0.999996
rad1	1.03360e-06	0.999997	1.03360e-06	0.999997
rad28	1.02215e-06	0.999998	1.02215e-06	0.999998
rad13	6.86092e-07	0.999999	6.86092e-07	0.999999
rad9	3.00643e-07	0.999999	3.00643e-07	0.999999
PhCCH+CH3	2.11102e-07	0.999999	2.11102e-07	0.999999
Phenyl+Allene	4.62614e-08	0.999999	0.00000	0.999999
rad30	3.44045e-08	1.000000	3.44045e-08	0.999999
rad25	7.17554e-09	1.000000	7.17554e-09	0.999999
rad15	6.62303e-09	1.000000	6.62303e-09	0.999999
rad26	5.36572e-09	1.000000	5.36572e-09	0.999999

PhCCCH3+H	3.98672e-09	1.000000	3.98672e-09	0.999999
PAH9+H	2.92429e-09	1.000000	2.92429e-09	0.999999
rad35	1.52181e-09	1.000000	1.52181e-09	0.999999
rad33	8.74825e-10	1.000000	8.74825e-10	0.999999
rad38	8.37273e-10	1.000000	8.37273e-10	0.999999
rad14	3.41777e-10	1.000000	3.41777e-10	0.999999
Ph+MeAc	2.06410e-10	1.000000	2.06410e-10	0.999999
rad8	1.11000e-10	1.000000	1.11000e-10	0.999999
rad18	3.61363e-11	1.000000	3.61363e-11	0.999999
rad27	1.45883e-11	1.000000	1.45883e-11	0.999999
PhCH2CCH+H	1.36705e-11	1.000000	1.36705e-11	0.999999
rad46	6.47640e-12	1.000000	6.47640e-12	0.999999
rad20	6.31244e-12	1.000000	6.31244e-12	0.999999
rad21	4.04624e-12	1.000000	4.04624e-12	0.999999
PAH7+H	1.88685e-12	1.000000	1.88685e-12	0.999999
rad24	1.19340e-12	1.000000	1.19340e-12	0.999999
rad60syn	8.00160e-13	1.000000	8.00160e-13	0.999999
rad39	2.84676e-13	1.000000	2.84676e-13	0.999999
rad60anti	1.66126e-13	1.000000	1.66126e-13	0.999999
rad12	1.02830e-14	1.000000	1.02830e-14	0.999999
rad31	1.56553e-15	1.000000	1.56553e-15	0.999999
rad37	8.01623e-17	1.000000	8.01623e-17	0.999999
rad5	2.90141e-17	1.000000	2.90141e-17	0.999999
PAH3+H	3.47016e-18	1.000000	3.47016e-18	0.999999
rad59	1.55318e-18	1.000000	1.55318e-18	0.999999
rad50	1.13535e-19	1.000000	1.13535e-19	0.999999
rad19syn	1.43688e-22	1.000000	1.43688e-22	0.999999
rad54	2.25226e-25	1.000000	2.25226e-25	0.999999
PAH10+CH3	2.51436e-26	1.000000	2.51437e-26	0.999999
rad43	2.46331e-26	1.000000	2.46331e-26	0.999999
rad52	2.24161e-26	1.000000	2.24162e-26	0.999999
rad62	1.64932e-27	1.000000	1.64932e-27	0.999999
rad51	3.09366e-30	1.000000	3.09366e-30	0.999999
rad70	1.21292e-30	1.000000	1.21292e-30	0.999999
PhcycC3H3_A+H	9.30833e-31	1.000000	9.30833e-31	0.999999
rad55	4.34576e-31	1.000000	4.34576e-31	0.999999
rad65	1.15196e-33	1.000000	1.15196e-33	0.999999
rad58	4.75926e-34	1.000000	4.75926e-34	0.999999
PAH1+H	2.50158e-34	1.000000	2.50158e-34	0.999999
rad34	7.84848e-36	1.000000	7.84848e-36	0.999999
rad42	1.11836e-38	1.000000	1.11836e-38	0.999999
rad41	3.00814e-39	1.000000	3.00814e-39	0.999999
rad47	1.22547e-39	1.000000	1.22547e-39	0.999999

10.000000 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.33719e-19 (1.00)	1.33719e-19 (1.00)
Formation of rad11	1.26517e-19 (0.946)	1.26517e-19 (0.946)
Formation of rad6	7.08974e-21 (0.0530)	7.08974e-21 (0.0530)
H-abstraction	1.11864e-22 (0.000837)	1.11864e-22 (0.000837)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.940825	0.940825	0.940825	0.940825
Indene+H	0.0539518	0.994777	0.0539518	0.994777
rad23	0.00322284	0.998000	0.00322284	0.998000
Benzene+2-propynyl	0.000836559	0.998837	0.000836559	0.998837
C2H2+PhCH2	0.000612382	0.999449	0.000612382	0.999449
rad7	0.000218277	0.999667	0.000218277	0.999667
rad11	0.000153668	0.999821	0.000153668	0.999821
rad45	0.000132373	0.999953	0.000132373	0.999953
rad2	1.91650e-05	0.999972	1.91650e-05	0.999972
rad36	8.20410e-06	0.999981	8.20410e-06	0.999981
PhCHCCH2+H	5.11309e-06	0.999986	5.11309e-06	0.999986
rad22	4.24167e-06	0.999990	4.24167e-06	0.999990
rad3	3.22649e-06	0.999993	3.22649e-06	0.999993
rad4	1.64377e-06	0.999995	1.64377e-06	0.999995
rad10	1.29099e-06	0.999996	1.29099e-06	0.999996
rad28	1.24927e-06	0.999997	1.24927e-06	0.999997
rad1	1.24750e-06	0.999999	1.24750e-06	0.999999
rad13	6.76029e-07	0.999999	6.76029e-07	0.999999
rad9	3.36475e-07	1.000000	3.36475e-07	1.000000
PhCCH+CH3	2.89408e-07	1.000000	2.89408e-07	1.000000
Phenyl+Allene	6.36600e-08	1.000000	0.000000	1.000000
rad30	3.62838e-08	1.000000	3.62838e-08	1.000000
rad26	8.63424e-09	1.000000	8.63424e-09	1.000000
rad15	7.07307e-09	1.000000	7.07307e-09	1.000000
PhCCCH3+H	6.67264e-09	1.000000	6.67264e-09	1.000000

rad25	5.35557e-09	1.00000	5.35557e-09	1.000000
PAH9+H	3.35618e-09	1.00000	3.35618e-09	1.000000
rad35	1.73062e-09	1.00000	1.73062e-09	1.000000
rad38	9.58612e-10	1.00000	9.58612e-10	1.000000
rad33	8.69360e-10	1.00000	8.69360e-10	1.000000
Ph+MeAc	4.04512e-10	1.00000	4.04512e-10	1.000000
rad14	3.48101e-10	1.00000	3.48101e-10	1.000000
rad8	1.59605e-10	1.00000	1.59605e-10	1.000000
PhCH2CCH+H	3.77545e-11	1.00000	3.77545e-11	1.000000
rad18	2.55558e-11	1.00000	2.55558e-11	1.000000
rad27	1.73579e-11	1.00000	1.73579e-11	1.000000
rad46	7.83981e-12	1.00000	7.83981e-12	1.000000
rad20	4.85993e-12	1.00000	4.85993e-12	1.000000
PAH7+H	3.64082e-12	1.00000	3.64082e-12	1.000000
rad21	3.12591e-12	1.00000	3.12591e-12	1.000000
rad24	1.05454e-12	1.00000	1.05454e-12	1.000000
rad60syn	1.01179e-12	1.00000	1.01179e-12	1.000000
rad39	5.73878e-13	1.00000	5.73878e-13	1.000000
rad60anti	2.29975e-13	1.00000	2.29975e-13	1.000000
rad12	2.72528e-14	1.00000	2.72528e-14	1.000000
rad31	1.70677e-15	1.00000	1.70677e-15	1.000000
rad37	3.20778e-16	1.00000	3.20778e-16	1.000000
rad5	1.18395e-16	1.00000	1.18395e-16	1.000000
PAH3+H	1.60375e-17	1.00000	1.60375e-17	1.000000
rad59	6.87880e-18	1.00000	6.87880e-18	1.000000
rad50	4.65306e-19	1.00000	4.65306e-19	1.000000
rad19syn	2.11405e-21	1.00000	2.11405e-21	1.000000
rad54	5.34062e-24	1.00000	5.34062e-24	1.000000
PAH10+CH3	5.73677e-25	1.00000	5.73677e-25	1.000000
rad43	5.38935e-25	1.00000	5.38935e-25	1.000000
rad52	3.35831e-25	1.00000	3.35831e-25	1.000000
rad62	5.05608e-26	1.00000	5.05608e-26	1.000000
rad70	1.17573e-28	1.00000	1.17573e-28	1.000000
rad51	1.12680e-28	1.00000	1.12680e-28	1.000000
PhcycC3H3_A+H	7.53047e-29	1.00000	7.53047e-29	1.000000
rad55	3.19589e-29	1.00000	3.19589e-29	1.000000
rad65	9.15969e-32	1.00000	9.15969e-32	1.000000
rad58	4.96914e-32	1.00000	4.96914e-32	1.000000
PAH1+H	3.28999e-32	1.00000	3.28999e-32	1.000000
rad34	1.14757e-33	1.00000	1.14757e-33	1.000000
rad42	1.67519e-36	1.00000	1.67519e-36	1.000000
rad41	4.42785e-37	1.00000	4.42785e-37	1.000000
rad47	1.62532e-37	1.00000	1.62532e-37	1.000000

10.000000 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.59582e-19 (1.00)	3.59582e-19 (1.00)
Formation of rad11	3.35703e-19 (0.934)	3.35703e-19 (0.934)
Formation of rad6	2.33415e-20 (0.0649)	2.33415e-20 (0.0649)
H-abstraction	5.37685e-22 (0.00150)	5.37685e-22 (0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.940369	0.940369	0.940369	0.940369
Indene+H	0.0541189	0.994488	0.0541189	0.994488
rad23	0.00287073	0.997358	0.00287073	0.997358
Benzene+2-propynyl	0.00149531	0.998854	0.00149531	0.998854
C2H2+PhCH2	0.000635832	0.999489	0.000635832	0.999489
rad7	0.000215409	0.999705	0.000215409	0.999705
rad11	0.000128272	0.999833	0.000128272	0.999833
rad45	0.000116131	0.999949	0.000116131	0.999949
rad2	2.28839e-05	0.999972	2.28839e-05	0.999972
rad36	7.20009e-06	0.999979	7.20009e-06	0.999979
PhCHCCH2+H	5.62917e-06	0.999985	5.62917e-06	0.999985
rad22	3.64561e-06	0.999989	3.64561e-06	0.999989
rad3	3.26339e-06	0.999992	3.26339e-06	0.999992
rad4	1.66470e-06	0.999994	1.66470e-06	0.999994
rad10	1.58202e-06	0.999995	1.58202e-06	0.999995
rad28	1.52681e-06	0.999997	1.52681e-06	0.999997
rad1	1.49663e-06	0.999998	1.49663e-06	0.999998
rad13	6.67036e-07	0.999999	6.67036e-07	0.999999
PhCCH+CH3	3.96446e-07	0.999999	3.96446e-07	0.999999
rad9	3.77706e-07	1.000000	3.77706e-07	1.000000
Phenyl+Allene	8.67478e-08	1.000000	0.000000	1.000000
rad30	3.83348e-08	1.000000	3.83348e-08	1.000000
rad26	1.37322e-08	1.000000	1.37322e-08	1.000000
PhCCCH3+H	1.11334e-08	1.000000	1.11334e-08	1.000000
rad15	7.57185e-09	1.000000	7.57185e-09	1.000000

rad25	4.08126e-09	1.000000	4.08126e-09	1.000000
PAH9+H	3.83908e-09	1.000000	3.83908e-09	1.000000
rad35	1.96054e-09	1.000000	1.96054e-09	1.000000
rad38	1.09578e-09	1.000000	1.09578e-09	1.000000
rad33	8.64909e-10	1.000000	8.64909e-10	1.000000
Ph+MeAc	7.84992e-10	1.000000	7.84992e-10	1.000000
rad14	3.53289e-10	1.000000	3.53289e-10	1.000000
rad8	2.34614e-10	1.000000	2.34614e-10	1.000000
PhCH2CCH+H	9.26172e-11	1.000000	9.26172e-11	1.000000
rad27	2.05434e-11	1.000000	2.05434e-11	1.000000
rad18	1.90522e-11	1.000000	1.90522e-11	1.000000
rad46	9.50250e-12	1.000000	9.50250e-12	1.000000
PAH7+H	7.06566e-12	1.000000	7.06566e-12	1.000000
rad20	3.89451e-12	1.000000	3.89451e-12	1.000000
rad21	2.51157e-12	1.000000	2.51157e-12	1.000000
rad60syn	1.28339e-12	1.000000	1.28339e-12	1.000000
rad39	1.15972e-12	1.000000	1.15972e-12	1.000000
rad24	9.30315e-13	1.000000	9.30315e-13	1.000000
rad60anti	3.14305e-13	1.000000	3.14306e-13	1.000000
rad12	7.11644e-14	1.000000	7.11644e-14	1.000000
rad31	1.86913e-15	1.000000	1.86913e-15	1.000000
rad37	1.18051e-15	1.000000	1.18051e-15	1.000000
rad5	4.35126e-16	1.000000	4.35126e-16	1.000000
PAH3+H	6.05786e-17	1.000000	6.05786e-17	1.000000
rad59	2.49186e-17	1.000000	2.49186e-17	1.000000
rad50	1.63250e-18	1.000000	1.63250e-18	1.000000
rad19syn	2.27251e-20	1.000000	2.27251e-20	1.000000
rad54	8.70511e-23	1.000000	8.70511e-23	1.000000
PAH10+CH3	9.81674e-24	1.000000	9.81674e-24	1.000000
rad43	8.63258e-24	1.000000	8.63259e-24	1.000000
rad52	3.57464e-24	1.000000	3.57464e-24	1.000000
rad62	1.05420e-24	1.000000	1.05420e-24	1.000000
rad70	5.69912e-27	1.000000	5.69912e-27	1.000000
PhcycC3H3_A+H	3.49477e-27	1.000000	3.49478e-27	1.000000
rad51	2.57155e-27	1.000000	2.57155e-27	1.000000
rad55	1.36049e-27	1.000000	1.36049e-27	1.000000
PAH1+H	4.18626e-30	1.000000	4.18626e-30	1.000000
rad65	3.30833e-30	1.000000	3.30833e-30	1.000000
rad58	3.12844e-30	1.000000	3.12844e-30	1.000000
rad34	2.58304e-31	1.000000	2.58304e-31	1.000000
rad42	3.96665e-34	1.000000	3.96665e-34	1.000000
rad41	9.53170e-35	1.000000	9.53170e-35	1.000000
rad47	1.27541e-35	1.000000	1.27541e-35	1.000000

10.000000 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.51464e-19 (1.00)	8.51464e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83711e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56651e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.939627	0.939627	0.939628	0.939628
Indene+H	0.0542309	0.993858	0.0542309	0.993859
rad23	0.00254736	0.996405	0.00254736	0.996406
Benzene+2-propynyl	0.00245244	0.998858	0.00245244	0.998859
C2H2+PhCH2	0.000661086	0.999519	0.000661086	0.999520
rad7	0.000212752	0.999731	0.000212752	0.999732
rad11	0.000111140	0.999843	0.000111140	0.999844
rad45	0.000101641	0.999944	0.000101641	0.999945
rad2	2.71867e-05	0.999971	2.71867e-05	0.999972
rad36	6.30548e-06	0.999978	6.30549e-06	0.999979
PhCHCCH2+H	6.22052e-06	0.999984	6.22052e-06	0.999985
rad3	3.29805e-06	0.999987	3.29805e-06	0.999988
rad22	3.15276e-06	0.999990	3.15276e-06	0.999991
rad10	1.92034e-06	0.999992	1.92034e-06	0.999993
rad28	1.86731e-06	0.999994	1.86731e-06	0.999995
rad1	1.78718e-06	0.999996	1.78718e-06	0.999997
rad4	1.68474e-06	0.999998	1.68474e-06	0.999999
rad13	6.58860e-07	0.999998	6.58860e-07	0.999999
PhCCH+CH3	5.43405e-07	0.999999	5.43405e-07	1.000000
rad9	4.25368e-07	0.999999	4.25368e-07	1.000000
Phenyl+Allene	1.17240e-07	0.999999	0.000000	1.000000
rad30	4.05922e-08	0.999999	4.05922e-08	1.000000
rad26	2.16300e-08	0.999999	2.16300e-08	1.000000
PhCCCH3+H	1.85324e-08	0.999999	1.85324e-08	1.000000
rad15	8.12890e-09	1.000000	8.12890e-09	1.000000

PAH9+H	4.38288e-09	1.000000	4.38288e-09	1.000000
rad25	3.17188e-09	1.000000	3.17188e-09	1.000000
rad35	2.21547e-09	1.000000	2.21547e-09	1.000000
Ph+MeAc	1.50962e-09	1.000000	1.50962e-09	1.000000
rad38	1.25194e-09	1.000000	1.25194e-09	1.000000
rad33	8.61214e-10	1.000000	8.61214e-10	1.000000
rad14	3.57726e-10	1.000000	3.57726e-10	1.000000
rad8	3.52479e-10	1.000000	3.52479e-10	1.000000
PhCH2CCH+H	2.06795e-10	1.000000	2.06795e-10	1.000000
rad27	2.42132e-11	1.000000	2.42132e-11	1.000000
rad18	1.48209e-11	1.000000	1.48209e-11	1.000000
PAH7+H	1.37495e-11	1.000000	1.37495e-11	1.000000
rad46	1.15432e-11	1.000000	1.15432e-11	1.000000
rad20	3.21553e-12	1.000000	3.21553e-12	1.000000
rad39	2.34856e-12	1.000000	2.34856e-12	1.000000
rad21	2.07769e-12	1.000000	2.07769e-12	1.000000
rad60syn	1.63241e-12	1.000000	1.63241e-12	1.000000
rad24	8.19148e-13	1.000000	8.19149e-13	1.000000
rad60anti	4.25731e-13	1.000000	4.25732e-13	1.000000
rad12	1.82895e-13	1.000000	1.82895e-13	1.000000
rad37	4.04044e-15	1.000000	4.04044e-15	1.000000
rad31	2.05845e-15	1.000000	2.05845e-15	1.000000
rad5	1.45890e-15	1.000000	1.45890e-15	1.000000
PAH3+H	1.95040e-16	1.000000	1.95040e-16	1.000000
rad59	7.70366e-17	1.000000	7.70366e-17	1.000000
rad50	5.04041e-18	1.000000	5.04041e-18	1.000000
rad19syn	1.86631e-19	1.000000	1.86631e-19	1.000000
rad54	1.02635e-21	1.000000	1.02635e-21	1.000000
PAH10+CH3	1.27190e-22	1.000000	1.27190e-22	1.000000
rad43	1.03222e-22	1.000000	1.03222e-22	1.000000
rad52	2.85930e-23	1.000000	2.85930e-23	1.000000
rad62	1.55594e-23	1.000000	1.55594e-23	1.000000
rad70	1.50081e-25	1.000000	1.50081e-25	1.000000
PhcycC3H3_A+H	9.55723e-26	1.000000	9.55723e-26	1.000000
rad51	4.01208e-26	1.000000	4.01208e-26	1.000000
rad55	3.50181e-26	1.000000	3.50181e-26	1.000000
PAH1+H	2.02473e-28	1.000000	2.02473e-28	1.000000
rad58	9.66693e-29	1.000000	9.66693e-29	1.000000
rad65	7.43333e-29	1.000000	7.43333e-29	1.000000
rad34	1.84002e-29	1.000000	1.84002e-29	1.000000
rad42	6.48579e-32	1.000000	6.48579e-32	1.000000
rad41	1.46697e-32	1.000000	1.46697e-32	1.000000
rad47	4.29973e-34	1.000000	4.29973e-34	1.000000

10.000000 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.81800e-18 (1.00)	1.81800e-18 (1.00)
Formation of rad11	1.64862e-18 (0.907)	1.64862e-18 (0.907)
Formation of rad6	1.62558e-19 (0.0894)	1.62558e-19 (0.0894)
H-abstraction	6.82130e-21 (0.00375)	6.82130e-21 (0.00375)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.938546	0.938546	0.938546	0.938546
Indene+H	0.0543021	0.992848	0.0543022	0.992848
Benzene+2-propynyl	0.00375209	0.996600	0.00375209	0.996601
rad23	0.00225180	0.998852	0.00225180	0.998852
C2H2+PhCH2	0.000688512	0.999541	0.000688512	0.999541
rad7	0.000210251	0.999751	0.000210251	0.999751
rad11	9.92729e-05	0.999850	9.92729e-05	0.999850
rad45	8.87311e-05	0.999939	8.87311e-05	0.999939
rad2	3.21656e-05	0.999971	3.21656e-05	0.999971
PhCHCCH2+H	6.90275e-06	0.999978	6.90275e-06	0.999978
rad36	5.50931e-06	0.999984	5.50932e-06	0.999984
rad3	3.33280e-06	0.999987	3.33280e-06	0.999987
rad22	2.73511e-06	0.999990	2.73511e-06	0.999990
rad10	2.31282e-06	0.999992	2.31282e-06	0.999992
rad28	2.28651e-06	0.999994	2.28651e-06	0.999994
rad1	2.12632e-06	0.999996	2.12632e-06	0.999996
rad4	1.70510e-06	0.999998	1.70510e-06	0.999998
PhCCH+CH3	7.46172e-07	0.999999	7.46173e-07	0.999999
rad13	6.51310e-07	0.999999	6.51310e-07	1.000000
rad9	4.80670e-07	1.000000	4.80670e-07	1.000000
Phenyl+Allene	1.57350e-07	1.000000	0.000000	1.000000
rad30	4.30940e-08	1.000000	4.30940e-08	1.000000
rad26	3.37830e-08	1.000000	3.37830e-08	1.000000
PhCCCH3+H	3.07806e-08	1.000000	3.07806e-08	1.000000
rad15	8.75485e-09	1.000000	8.75486e-09	1.000000

PAH9+H	4.99914e-09	1.00000	4.99914e-09	1.00000
Ph+MeAc	2.87734e-09	1.00000	2.87734e-09	1.00000
rad25	2.51227e-09	1.00000	2.51227e-09	1.00000
rad35	2.49992e-09	1.00000	2.49992e-09	1.00000
rad38	1.43085e-09	1.00000	1.43085e-09	1.00000
rad33	8.58080e-10	1.00000	8.58080e-10	1.00000
rad8	5.40396e-10	1.00000	5.40396e-10	1.00000
PhCH2CCH+H	4.28052e-10	1.00000	4.28053e-10	1.00000
rad14	3.61738e-10	1.00000	3.61738e-10	1.00000
rad27	2.84441e-11	1.00000	2.84441e-11	1.00000
PAH7+H	2.67733e-11	1.00000	2.67733e-11	1.00000
rad46	1.40614e-11	1.00000	1.40614e-11	1.00000
rad18	1.19269e-11	1.00000	1.19269e-11	1.00000
rad39	4.76295e-12	1.00000	4.76296e-12	1.00000
rad20	2.71532e-12	1.00000	2.71532e-12	1.00000
rad60syn	2.08144e-12	1.00000	2.08144e-12	1.00000
rad21	1.75680e-12	1.00000	1.75680e-12	1.00000
rad24	7.19731e-13	1.00000	7.19731e-13	1.00000
rad60anti	5.72998e-13	1.00000	5.72998e-13	1.00000
rad12	4.61524e-13	1.00000	4.61524e-13	1.00000
rad37	1.29684e-14	1.00000	1.29684e-14	1.00000
rad5	4.51318e-15	1.00000	4.51318e-15	1.00000
rad31	2.28177e-15	1.00000	2.28177e-15	1.00000
PAH3+H	5.52670e-16	1.00000	5.52670e-16	1.00000
rad59	2.09916e-16	1.00000	2.09916e-16	1.00000
rad50	1.40167e-17	1.00000	1.40167e-17	1.00000
rad19syn	1.22298e-18	1.00000	1.22298e-18	1.00000
rad54	9.21952e-21	1.00000	9.21952e-21	1.00000
PAH10+CH3	1.28435e-21	1.00000	1.28435e-21	1.00000
rad43	9.54405e-22	1.00000	9.54405e-22	1.00000
rad52	1.80637e-22	1.00000	1.80637e-22	1.00000
rad62	1.70962e-22	1.00000	1.70962e-22	1.00000
rad70	2.63771e-24	1.00000	2.63772e-24	1.00000
PhcycC3H3_A+H	1.77942e-24	1.00000	1.77942e-24	1.00000
rad55	6.17193e-25	1.00000	6.17193e-25	1.00000
rad51	4.57224e-25	1.00000	4.57224e-25	1.00000
PAH1+H	5.88236e-27	1.00000	5.88236e-27	1.00000
rad58	1.92480e-27	1.00000	1.92480e-27	1.00000
rad65	1.15880e-27	1.00000	1.15880e-27	1.00000
rad34	6.64236e-28	1.00000	6.64236e-28	1.00000
rad42	3.28027e-30	1.00000	3.28027e-30	1.00000
rad41	8.05339e-31	1.00000	8.05339e-31	1.00000
rad47	8.46814e-33	1.00000	8.46814e-33	1.00000

10.000000 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.56414e-18 (1.00)	3.56414e-18 (1.00)
Formation of rad11	3.18264e-18 (0.893)	3.18263e-18 (0.893)
Formation of rad6	3.62173e-19 (0.102)	3.62173e-19 (0.102)
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.937086	0.937086	0.937086	0.937086
Indene+H	0.0543454	0.991431	0.0543454	0.991431
Benzene+2-propynyl	0.00542285	0.996854	0.00542285	0.996854
rad23	0.00198297	0.998837	0.00198297	0.998837
C2H2+PhCH2	0.000718494	0.999555	0.000718494	0.999555
rad7	0.000207866	0.999763	0.000207866	0.999763
rad11	9.08415e-05	0.999854	9.08416e-05	0.999854
rad45	7.72524e-05	0.999931	7.72524e-05	0.999931
rad2	3.79243e-05	0.999969	3.79243e-05	0.999969
PhCHCCH2+H	7.69528e-06	0.999977	7.69528e-06	0.999977
rad36	4.80207e-06	0.999982	4.80207e-06	0.999982
rad3	3.36974e-06	0.999985	3.36974e-06	0.999985
rad28	2.80427e-06	0.999988	2.80427e-06	0.999988
rad10	2.76720e-06	0.999991	2.76720e-06	0.999991
rad1	2.52227e-06	0.999993	2.52227e-06	0.999993
rad22	2.37569e-06	0.999996	2.37569e-06	0.999996
rad4	1.72688e-06	0.999997	1.72688e-06	0.999997
PhCCH+CH3	1.02742e-06	0.999998	1.02742e-06	0.999998
rad13	6.44238e-07	0.999999	6.44238e-07	0.999999
rad9	5.45036e-07	0.999999	5.45036e-07	0.999999
Phenyl+Allene	2.09928e-07	1.000000	0.000000	0.999999
rad26	5.23469e-08	1.000000	5.23469e-08	1.000000
PhCCCH3+H	5.09886e-08	1.000000	5.09886e-08	1.000000
rad30	4.58817e-08	1.000000	4.58817e-08	1.000000
rad15	9.46187e-09	1.000000	9.46187e-09	1.000000

PAH9+H	5.70140e-09	1.000000	5.70140e-09	1.000000
Ph+MeAc	5.43247e-09	1.000000	5.43247e-09	1.000000
rad35	2.81906e-09	1.000000	2.81907e-09	1.000000
rad25	2.02700e-09	1.000000	2.02700e-09	1.000000
rad38	1.63691e-09	1.000000	1.63691e-09	1.000000
rad33	8.55364e-10	1.000000	8.55364e-10	1.000000
rad8	8.43108e-10	1.000000	8.43108e-10	1.000000
PhCH2CCH+H	8.33048e-10	1.000000	8.33049e-10	1.000000
rad14	3.65611e-10	1.000000	3.65611e-10	1.000000
PAH7+H	5.21013e-11	1.000000	5.21013e-11	1.000000
rad27	3.33222e-11	1.000000	3.33222e-11	1.000000
rad46	1.71833e-11	1.000000	1.71833e-11	1.000000
rad18	9.86024e-12	1.000000	9.86024e-12	1.000000
rad39	9.66293e-12	1.000000	9.66294e-12	1.000000
rad60syn	2.65983e-12	1.000000	2.65983e-12	1.000000
rad20	2.33296e-12	1.000000	2.33296e-12	1.000000
rad21	1.51066e-12	1.000000	1.51066e-12	1.000000
rad12	1.13975e-12	1.000000	1.13975e-12	1.000000
rad60anti	7.67640e-13	1.000000	7.67641e-13	1.000000
rad24	6.30950e-13	1.000000	6.30950e-13	1.000000
rad37	3.92501e-14	1.000000	3.92501e-14	1.000000
rad5	1.30023e-14	1.000000	1.30023e-14	1.000000
rad31	2.54777e-15	1.000000	2.54777e-15	1.000000
PAH3+H	1.41274e-15	1.000000	1.41275e-15	1.000000
rad59	5.16815e-16	1.000000	5.16815e-16	1.000000
rad50	3.57695e-17	1.000000	3.57695e-17	1.000000
rad19syn	6.63620e-18	1.000000	6.63620e-18	1.000000
rad54	6.59701e-20	1.000000	6.59701e-20	1.000000
PAH10+CH3	1.04263e-20	1.000000	1.04263e-20	1.000000
rad43	7.06913e-21	1.000000	7.06913e-21	1.000000
rad62	1.46294e-21	1.000000	1.46294e-21	1.000000
rad52	9.39027e-22	1.000000	9.39027e-22	1.000000
rad70	3.33988e-23	1.000000	3.33988e-23	1.000000
PhcycC3H3_A+H	2.40491e-23	1.000000	2.40491e-23	1.000000
rad55	7.93506e-24	1.000000	7.93506e-24	1.000000
rad51	4.01346e-24	1.000000	4.01346e-24	1.000000
PAH1+H	1.12899e-25	1.000000	1.12899e-25	1.000000
rad58	2.71911e-26	1.000000	2.71911e-26	1.000000
rad34	1.37220e-26	1.000000	1.37220e-26	1.000000
rad65	1.33510e-26	1.000000	1.33510e-26	1.000000
rad42	8.38290e-29	1.000000	8.38290e-29	1.000000
rad41	2.13373e-29	1.000000	2.13373e-29	1.000000
rad47	1.16122e-31	1.000000	1.16122e-31	1.000000

10.000000 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.50681e-18 (1.00)	6.50681e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71915e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39013e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.935225	0.935225	0.935225	0.935225
Indene+H	0.0543726	0.989598	0.0543726	0.989598
Benzene+2-propynyl	0.00747672	0.997074	0.00747672	0.997074
rad23	0.00173968	0.998814	0.00173968	0.998814
C2H2+PhCH2	0.000751446	0.999565	0.000751446	0.999565
rad7	0.000205565	0.999771	0.000205565	0.999771
rad11	8.46978e-05	0.999856	8.46978e-05	0.999856
rad45	6.70724e-05	0.999923	6.70724e-05	0.999923
rad2	4.45766e-05	0.999967	4.45766e-05	0.999967
PhCHCCH2+H	8.62270e-06	0.999976	8.62270e-06	0.999976
rad36	4.17531e-06	0.999980	4.17531e-06	0.999980
rad28	3.44555e-06	0.999984	3.44555e-06	0.999984
rad3	3.41079e-06	0.999987	3.41079e-06	0.999987
rad10	3.29203e-06	0.999990	3.29203e-06	0.999990
rad1	2.98430e-06	0.999993	2.98430e-06	0.999993
rad22	2.06351e-06	0.999995	2.06351e-06	0.999995
rad4	1.75113e-06	0.999997	1.75113e-06	0.999997
PhCCH+CH3	1.41956e-06	0.999998	1.41956e-06	0.999998
rad13	6.37536e-07	0.999999	6.37536e-07	0.999999
rad9	6.20155e-07	1.000000	6.20155e-07	1.000000
Phenyl+Allene	2.78640e-07	1.000000	0.000000	1.000000
PhCCCH3+H	8.41581e-08	1.000000	8.41581e-08	1.000000
rad26	8.04602e-08	1.000000	8.04602e-08	1.000000
rad30	4.90025e-08	1.000000	4.90025e-08	1.000000
rad15	1.02639e-08	1.000000	1.02639e-08	1.000000

Ph+MeAc	1.01479e-08	1.00000	1.01479e-08	1.000000
PAH9+H	6.50566e-09	1.00000	6.50566e-09	1.000000
rad35	3.17892e-09	1.00000	3.17892e-09	1.000000
rad38	1.87542e-09	1.00000	1.87542e-09	1.000000
rad25	1.66550e-09	1.00000	1.66550e-09	1.000000
PhCH2CCH+H	1.54098e-09	1.00000	1.54098e-09	1.000000
rad8	1.33359e-09	1.00000	1.33359e-09	1.000000
rad33	8.52962e-10	1.00000	8.52962e-10	1.000000
rad14	3.69604e-10	1.00000	3.69604e-10	1.000000
PAH7+H	1.01245e-10	1.00000	1.01245e-10	1.000000
rad27	3.89418e-11	1.00000	3.89419e-11	1.000000
rad46	2.10687e-11	1.00000	2.10687e-11	1.000000
rad39	1.95802e-11	1.00000	1.95802e-11	1.000000
rad18	8.32944e-12	1.00000	8.32944e-12	1.000000
rad60syn	3.40565e-12	1.00000	3.40565e-12	1.000000
rad12	2.74444e-12	1.00000	2.74444e-12	1.000000
rad20	2.03227e-12	1.00000	2.03227e-12	1.000000
rad21	1.31652e-12	1.00000	1.31652e-12	1.000000
rad60anti	1.02487e-12	1.00000	1.02487e-12	1.000000
rad24	5.51829e-13	1.00000	5.51829e-13	1.000000
rad37	1.12410e-13	1.00000	1.12410e-13	1.000000
rad5	3.51462e-14	1.00000	3.51462e-14	1.000000
PAH3+H	3.32106e-15	1.00000	3.32106e-15	1.000000
rad31	2.86725e-15	1.00000	2.86725e-15	1.000000
rad59	1.17199e-15	1.00000	1.17199e-15	1.000000
rad50	8.50294e-17	1.00000	8.50295e-17	1.000000
rad19syn	3.07416e-17	1.00000	3.07416e-17	1.000000
rad54	3.90084e-19	1.00000	3.90084e-19	1.000000
PAH10+CH3	7.00142e-20	1.00000	7.00142e-20	1.000000
rad43	4.32809e-20	1.00000	4.32809e-20	1.000000
rad62	1.01296e-20	1.00000	1.01296e-20	1.000000
rad52	4.15266e-21	1.00000	4.15266e-21	1.000000
rad70	3.22389e-22	1.00000	3.22389e-22	1.000000
PhcycC3H3_A+H	2.48934e-22	1.00000	2.48934e-22	1.000000
rad55	7.84234e-23	1.00000	7.84235e-23	1.000000
rad51	2.83380e-23	1.00000	2.83380e-23	1.000000
PAH1+H	1.57730e-24	1.00000	1.57730e-24	1.000000
rad58	2.90443e-25	1.00000	2.90443e-25	1.000000
rad34	1.99597e-25	1.00000	1.99597e-25	1.000000
rad65	1.19597e-25	1.00000	1.19597e-25	1.000000
rad42	1.44480e-27	1.00000	1.44480e-27	1.000000
rad41	3.77800e-28	1.00000	3.77800e-28	1.000000
rad47	1.17622e-30	1.00000	1.17622e-30	1.000000

10.000000 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.11858e-17 (1.00)	1.11858e-17 (1.00)
Formation of rad11	9.67466e-18 (0.865)	9.67465e-18 (0.865)
Formation of rad6	1.40029e-18 (0.125)	1.40029e-18 (0.125)
H-abstraction	1.10851e-19 (0.00991)	1.10851e-19 (0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.932957	0.932957	0.932957	0.932957
Indene+H	0.0543948	0.987352	0.0543949	0.987352
Benzene+2-propynyl	0.00990995	0.997262	0.00990996	0.997262
rad23	0.00152063	0.998782	0.00152063	0.998782
C2H2+PhCH2	0.000787818	0.999570	0.000787818	0.999570
rad7	0.000203330	0.999773	0.000203330	0.999773
rad11	8.01054e-05	0.999853	8.01054e-05	0.999854
rad45	5.80719e-05	0.999912	5.80719e-05	0.999912
rad2	5.22441e-05	0.999964	5.22441e-05	0.999964
PhCHCCH2+H	9.71674e-06	0.999974	9.71675e-06	0.999974
rad28	4.24171e-06	0.999978	4.24171e-06	0.999978
rad10	3.89649e-06	0.999982	3.89649e-06	0.999982
rad36	3.62148e-06	0.999985	3.62148e-06	0.999985
rad1	3.52275e-06	0.999989	3.52275e-06	0.999989
rad3	3.45779e-06	0.999992	3.45779e-06	0.999992
PhCCH+CH3	1.96895e-06	0.999994	1.96895e-06	0.999994
rad22	1.79106e-06	0.999996	1.79106e-06	0.999996
rad4	1.77882e-06	0.999998	1.77882e-06	0.999998
rad9	7.08034e-07	0.999999	7.08034e-07	0.999999
rad13	6.31126e-07	0.999999	6.31126e-07	0.999999
Phenyl+Allene	3.68197e-07	1.000000	0.000000	0.999999
PhCCCH3+H	1.38208e-07	1.000000	1.38208e-07	0.999999
rad26	1.22597e-07	1.000000	1.22597e-07	1.000000
rad30	5.25096e-08	1.000000	5.25096e-08	1.000000
Ph+MeAc	1.87256e-08	1.000000	1.87256e-08	1.000000

rad15	1.11771e-08	1.000000	1.11771e-08	1.000000
PAH9+H	7.43084e-09	1.000000	7.43085e-09	1.000000
rad35	3.58652e-09	1.000000	3.58652e-09	1.000000
PhCH2CCH+H	2.73277e-09	1.000000	2.73277e-09	1.000000
rad38	2.15267e-09	1.000000	2.15267e-09	1.000000
rad8	2.12928e-09	1.000000	2.12928e-09	1.000000
rad25	1.39321e-09	1.000000	1.39321e-09	1.000000
rad33	8.50800e-10	1.000000	8.50801e-10	1.000000
rad14	3.73947e-10	1.000000	3.73948e-10	1.000000
PAH7+H	1.96299e-10	1.000000	1.96299e-10	1.000000
rad27	4.54041e-11	1.000000	4.54041e-11	1.000000
rad39	3.95490e-11	1.000000	3.95490e-11	1.000000
rad46	2.59204e-11	1.000000	2.59204e-11	1.000000
rad18	7.16072e-12	1.000000	7.16072e-12	1.000000
rad12	6.42120e-12	1.000000	6.42120e-12	1.000000
rad60syn	4.36844e-12	1.000000	4.36844e-12	1.000000
rad20	1.79083e-12	1.000000	1.79083e-12	1.000000
rad60anti	1.36473e-12	1.000000	1.36473e-12	1.000000
rad21	1.16025e-12	1.000000	1.16025e-12	1.000000
rad24	4.81503e-13	1.000000	4.81503e-13	1.000000
rad37	3.05318e-13	1.000000	3.05318e-13	1.000000
rad5	8.96688e-14	1.000000	8.96689e-14	1.000000
PAH3+H	7.28935e-15	1.000000	7.28935e-15	1.000000
rad31	3.25378e-15	1.000000	3.25378e-15	1.000000
rad59	2.48526e-15	1.000000	2.48526e-15	1.000000
rad50	1.90556e-16	1.000000	1.90556e-16	1.000000
rad19syn	1.24628e-16	1.000000	1.24628e-16	1.000000
rad54	1.96372e-18	1.000000	1.96372e-18	1.000000
PAH10+CH3	3.98590e-19	1.000000	3.98590e-19	1.000000
rad43	2.24942e-19	1.000000	2.24942e-19	1.000000
rad62	5.85662e-20	1.000000	5.85662e-20	1.000000
rad52	1.60487e-20	1.000000	1.60487e-20	1.000000
rad70	2.47469e-21	1.000000	2.47470e-21	1.000000
PhcycC3H3_A+H	2.05314e-21	1.000000	2.05314e-21	1.000000
rad55	6.19950e-22	1.000000	6.19950e-22	1.000000
rad51	1.66630e-22	1.000000	1.66630e-22	1.000000
PAH1+H	1.68280e-23	1.000000	1.68280e-23	1.000000
rad58	2.44894e-24	1.000000	2.44894e-24	1.000000
rad34	2.18143e-24	1.000000	2.18143e-24	1.000000
rad65	8.66202e-25	1.000000	8.66203e-25	1.000000
rad42	1.81603e-26	1.000000	1.81603e-26	1.000000
rad41	4.85341e-27	1.000000	4.85341e-27	1.000000
rad47	9.21757e-30	1.000000	9.21758e-30	1.000000

10.000000 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.82690e-17 (1.00)	1.82690e-17 (1.00)
Formation of rad11	1.55456e-17 (0.851)	1.55456e-17 (0.851)
Formation of rad6	2.49126e-18 (0.136)	2.49126e-18 (0.136)
H-abstraction	2.32112e-19 (0.0127)	2.32112e-19 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.930290	0.930290	0.930291	0.930291
Indene+H	0.0544226	0.984713	0.0544227	0.984714
Benzene+2-propynyl	0.0127053	0.997418	0.0127053	0.997419
rad23	0.00132443	0.998743	0.00132444	0.998744
C2H2+PhCH2	0.000828108	0.999571	0.000828108	0.999572
rad7	0.000201144	0.999772	0.000201144	0.999773
rad11	7.65829e-05	0.999848	7.65829e-05	0.999850
rad2	6.10524e-05	0.999910	6.10524e-05	0.999911
rad45	5.01414e-05	0.999960	5.01414e-05	0.999961
PhCHCCH2+H	1.10189e-05	0.999971	1.10189e-05	0.999972
rad28	5.23182e-06	0.999976	5.23183e-06	0.999977
rad10	4.59008e-06	0.999981	4.59008e-06	0.999982
rad1	4.14880e-06	0.999985	4.14880e-06	0.999986
rad3	3.51245e-06	0.999988	3.51245e-06	0.999989
rad36	3.13367e-06	0.999991	3.13367e-06	0.999992
PhCCH+CH3	2.74169e-06	0.999994	2.74170e-06	0.999995
rad4	1.81089e-06	0.999996	1.81089e-06	0.999997
rad22	1.55284e-06	0.999997	1.55284e-06	0.999999
rad9	8.11071e-07	0.999998	8.11071e-07	0.999999
rad13	6.24954e-07	0.999999	6.24954e-07	1.000000
Phenyl+Allene	4.84660e-07	0.999999	0.000000	1.000000
PhCCCH3+H	2.25446e-07	1.000000	2.25446e-07	1.000000
rad26	1.84976e-07	1.000000	1.84977e-07	1.000000
rad30	5.64643e-08	1.000000	5.64643e-08	1.000000
Ph+MeAc	3.40731e-08	1.000000	3.40731e-08	1.000000

rad15	1.22204e-08	1.000000	1.22204e-08	1.000000
PAH9+H	8.49955e-09	1.000000	8.49955e-09	1.000000
PhCH2CCH+H	4.67803e-09	1.000000	4.67804e-09	1.000000
rad35	4.05011e-09	1.000000	4.05011e-09	1.000000
rad8	3.41603e-09	1.000000	3.41603e-09	1.000000
rad38	2.47621e-09	1.000000	2.47622e-09	1.000000
rad25	1.18601e-09	1.000000	1.18601e-09	1.000000
rad33	8.48839e-10	1.000000	8.48838e-10	1.000000
PAH7+H	3.79301e-10	1.000000	3.79301e-10	1.000000
rad14	3.78856e-10	1.000000	3.78856e-10	1.000000
rad39	7.94457e-11	1.000000	7.94457e-11	1.000000
rad27	5.28136e-11	1.000000	5.28136e-11	1.000000
rad46	3.19968e-11	1.000000	3.19969e-11	1.000000
rad12	1.45554e-11	1.000000	1.45554e-11	1.000000
rad18	6.24608e-12	1.000000	6.24608e-12	1.000000
rad60syn	5.61268e-12	1.000000	5.61268e-12	1.000000
rad60anti	1.81367e-12	1.000000	1.81367e-12	1.000000
rad20	1.59405e-12	1.000000	1.59405e-12	1.000000
rad21	1.03262e-12	1.000000	1.03262e-12	1.000000
rad37	7.87765e-13	1.000000	7.87766e-13	1.000000
rad24	4.19183e-13	1.000000	4.19183e-13	1.000000
rad5	2.16981e-13	1.000000	2.16981e-13	1.000000
PAH3+H	1.51192e-14	1.000000	1.51192e-14	1.000000
rad59	4.98755e-15	1.000000	4.98755e-15	1.000000
rad31	3.72443e-15	1.000000	3.72443e-15	1.000000
rad19syn	4.51144e-16	1.000000	4.51144e-16	1.000000
rad50	4.06504e-16	1.000000	4.06505e-16	1.000000
rad54	8.62112e-18	1.000000	8.62112e-18	1.000000
PAH10+CH3	1.96396e-18	1.000000	1.96396e-18	1.000000
rad43	1.01463e-18	1.000000	1.01463e-18	1.000000
rad62	2.90078e-19	1.000000	2.90078e-19	1.000000
rad52	5.53985e-20	1.000000	5.53985e-20	1.000000
rad70	1.56247e-20	1.000000	1.56247e-20	1.000000
PhcycC3H3_A+H	1.39243e-20	1.000000	1.39244e-20	1.000000
rad55	4.04583e-21	1.000000	4.04584e-21	1.000000
rad51	8.38960e-22	1.000000	8.38961e-22	1.000000
PAH1+H	1.42289e-22	1.000000	1.42289e-22	1.000000
rad34	1.87081e-23	1.000000	1.87081e-23	1.000000
rad58	1.68611e-23	1.000000	1.68611e-23	1.000000
rad65	5.23288e-24	1.000000	5.23288e-24	1.000000
rad42	1.75398e-25	1.000000	1.75398e-25	1.000000
rad41	4.77795e-26	1.000000	4.77795e-26	1.000000
rad47	5.80462e-29	1.000000	5.80463e-29	1.000000

10.000000 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.85520e-17 (1.00)	2.85520e-17 (1.00)
Formation of rad11	2.39009e-17 (0.837)	2.39009e-17 (0.837)
Formation of rad6	4.19900e-18 (0.147)	4.19900e-18 (0.147)
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.927243	0.927243	0.927244	0.927244
Indene+H	0.0544668	0.981710	0.0544669	0.981711
Benzene+2-propynyl	0.0158346	0.997545	0.0158346	0.997546
rad23	0.00114961	0.998694	0.00114962	0.998695
C2H2+PhCH2	0.000872877	0.999567	0.000872878	0.999568
rad7	0.000198996	0.999766	0.000198997	0.999767
rad11	7.38095e-05	0.999840	7.38095e-05	0.999841
rad2	7.11262e-05	0.999911	7.11263e-05	0.999912
rad45	4.31799e-05	0.999954	4.31800e-05	0.999955
PhCHCCH2+H	1.25841e-05	0.999967	1.25841e-05	0.999968
rad28	6.46429e-06	0.999973	6.46429e-06	0.999974
rad10	5.38222e-06	0.999979	5.38222e-06	0.999980
rad1	4.87428e-06	0.999984	4.87428e-06	0.999985
PhCCH+CH3	3.83145e-06	0.999987	3.83145e-06	0.999988
rad3	3.57637e-06	0.999991	3.57637e-06	0.999992
rad36	2.70551e-06	0.999994	2.70552e-06	0.999995
rad4	1.84824e-06	0.999995	1.84824e-06	0.999997
rad22	1.34456e-06	0.999997	1.34456e-06	0.999998
rad9	9.32146e-07	0.999998	9.32147e-07	0.999999
Phenyl+Allene	6.35848e-07	0.999998	0.00000	0.999999
rad13	6.18981e-07	0.999999	6.18981e-07	0.999999
PhCCCH3+H	3.64613e-07	0.999999	3.64613e-07	1.000000
rad26	2.76001e-07	1.000000	2.76001e-07	1.000000
Ph+MeAc	6.10321e-08	1.000000	6.10321e-08	1.000000
rad30	6.09375e-08	1.000000	6.09375e-08	1.000000

rad15	1.34161e-08	1.000000	1.34161e-08	1.00000
PAH9+H	9.73886e-09	1.000000	9.73887e-09	1.00000
PhCH2CCH+H	7.77291e-09	1.000000	7.77292e-09	1.00000
rad8	5.48222e-09	1.000000	5.48222e-09	1.00000
rad35	4.57949e-09	1.000000	4.57949e-09	1.00000
rad38	2.85523e-09	1.000000	2.85523e-09	1.00000
rad25	1.02691e-09	1.000000	1.02691e-09	1.00000
rad33	8.47050e-10	1.000000	8.47050e-10	1.00000
PAH7+H	7.29264e-10	1.000000	7.29264e-10	1.00000
rad14	3.84519e-10	1.000000	3.84520e-10	1.00000
rad39	1.58323e-10	1.000000	1.58323e-10	1.00000
rad27	6.12739e-11	1.000000	6.12739e-11	1.00000
rad46	3.96288e-11	1.000000	3.96288e-11	1.00000
rad12	3.18961e-11	1.000000	3.18961e-11	1.00000
rad60syn	7.22246e-12	1.000000	7.22247e-12	1.00000
rad18	5.51590e-12	1.000000	5.51590e-12	1.00000
rad60anti	2.40663e-12	1.000000	2.40663e-12	1.00000
rad37	1.93376e-12	1.000000	1.93376e-12	1.00000
rad20	1.43210e-12	1.000000	1.43210e-12	1.00000
rad21	9.27430e-13	1.000000	9.27431e-13	1.00000
rad5	5.00020e-13	1.000000	5.00021e-13	1.00000
rad24	3.64141e-13	1.000000	3.64141e-13	1.00000
PAH3+H	2.99221e-14	1.000000	2.99221e-14	1.00000
rad59	9.56363e-15	1.000000	9.56363e-15	1.00000
rad31	4.30081e-15	1.000000	4.30081e-15	1.00000
rad19syn	1.48215e-15	1.000000	1.48215e-15	1.00000
rad50	8.31983e-16	1.000000	8.31984e-16	1.00000
rad54	3.36514e-17	1.000000	3.36515e-17	1.00000
PAH10+CH3	8.52062e-18	1.000000	8.52062e-18	1.00000
rad43	4.04553e-18	1.000000	4.04554e-18	1.00000
rad62	1.25669e-18	1.000000	1.25669e-18	1.00000
rad52	1.73861e-19	1.000000	1.73862e-19	1.00000
rad70	8.33686e-20	1.000000	8.33686e-20	1.00000
PhcycC3H3_A+H	7.96275e-20	1.000000	7.96276e-20	1.00000
rad55	2.23527e-20	1.000000	2.23527e-20	1.00000
rad51	3.69782e-21	1.000000	3.69783e-21	1.00000
PAH1+H	9.82074e-22	1.000000	9.82074e-22	1.00000
rad34	1.30070e-22	1.000000	1.30070e-22	1.00000
rad58	9.73831e-23	1.000000	9.73832e-23	1.00000
rad65	2.70292e-23	1.000000	2.70293e-23	1.00000
rad42	1.34920e-24	1.000000	1.34920e-24	1.00000
rad41	3.73762e-25	1.000000	3.73762e-25	1.00000
rad47	3.03037e-28	1.000000	3.03037e-28	1.00000

10.000000 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.29529e-17 (1.00)	4.29528e-17 (1.00)
Formation of rad11	3.53712e-17 (0.823)	3.53711e-17 (0.823)
Formation of rad6	6.75433e-18 (0.157)	6.75432e-18 (0.157)
H-abstraction	8.27372e-19 (0.0193)	8.27372e-19 (0.0193)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.923842	0.923842	0.923842	0.923842
Indene+H	0.0545376	0.978380	0.0545377	0.978380
Benzene+2-propynyl	0.0192623	0.997642	0.0192623	0.997642
rad23	0.000994684	0.998637	0.000994684	0.998637
C2H2+PhCH2	0.000922765	0.999560	0.000922766	0.999560
rad7	0.000196883	0.999756	0.000196883	0.999757
rad2	8.25814e-05	0.999839	8.25814e-05	0.999839
rad11	7.15684e-05	0.999911	7.15684e-05	0.999911
rad45	3.70931e-05	0.999948	3.70931e-05	0.999948
PhCHCCH2+H	1.44856e-05	0.999962	1.44856e-05	0.999962
rad28	7.99842e-06	0.999970	7.99842e-06	0.999970
rad10	6.28169e-06	0.999976	6.28169e-06	0.999977
rad1	5.71122e-06	0.999982	5.71122e-06	0.999982
PhCCH+CH3	5.36989e-06	0.999988	5.36989e-06	0.999988
rad3	3.65100e-06	0.999991	3.65101e-06	0.999991
rad36	2.33111e-06	0.999994	2.33111e-06	0.999994
rad4	1.89172e-06	0.999995	1.89172e-06	0.999996
rad22	1.16273e-06	0.999997	1.16273e-06	0.999997
rad9	1.07475e-06	0.999998	1.07475e-06	0.999998
Phenyl+Allene	8.31874e-07	0.999998	0.00000	0.999998
rad13	6.13186e-07	0.999999	6.13187e-07	0.999998
PhCCCH3+H	5.83621e-07	1.000000	5.83621e-07	0.999999
rad26	4.06671e-07	1.000000	4.06672e-07	0.999999
Ph+MeAc	1.07453e-07	1.000000	1.07454e-07	0.999999
rad30	6.60119e-08	1.000000	6.60120e-08	1.000000

rad15	1.47906e-08	1.00000	1.47906e-08	1.000000
PhCH2CCH+H	1.25933e-08	1.00000	1.25933e-08	1.000000
PAH9+H	1.11816e-08	1.00000	1.11816e-08	1.000000
rad8	8.76581e-09	1.00000	8.76581e-09	1.000000
rad35	5.18633e-09	1.00000	5.18633e-09	1.000000
rad38	3.30085e-09	1.00000	3.30086e-09	1.000000
PAH7+H	1.39238e-09	1.00000	1.39238e-09	1.000000
rad25	9.03677e-10	1.00000	9.03678e-10	1.000000
rad33	8.45429e-10	1.00000	8.45430e-10	1.000000
rad14	3.91107e-10	1.00000	3.91107e-10	1.000000
rad39	3.12219e-10	1.00000	3.12219e-10	1.000000
rad27	7.08827e-11	1.00000	7.08827e-11	1.000000
rad12	6.74815e-11	1.00000	6.74816e-11	1.000000
rad46	4.92404e-11	1.00000	4.92405e-11	1.000000
rad60syn	9.30769e-12	1.00000	9.30770e-12	1.000000
rad18	4.92366e-12	1.00000	4.92367e-12	1.000000
rad37	4.52350e-12	1.00000	4.52350e-12	1.000000
rad60anti	3.18983e-12	1.00000	3.18983e-12	1.000000
rad20	1.29809e-12	1.00000	1.29809e-12	1.000000
rad5	1.10121e-12	1.00000	1.10121e-12	1.000000
rad21	8.40284e-13	1.00000	8.40285e-13	1.000000
rad24	3.15704e-13	1.00000	3.15704e-13	1.000000
PAH3+H	5.69457e-14	1.00000	5.69457e-14	1.000000
rad59	1.76575e-14	1.00000	1.76575e-14	1.000000
rad31	5.01036e-15	1.00000	5.01037e-15	1.000000
rad19syn	4.47757e-15	1.00000	4.47758e-15	1.000000
rad50	1.64424e-15	1.00000	1.64424e-15	1.000000
rad54	1.18606e-16	1.00000	1.18606e-16	1.000000
PAH10+CH3	3.30160e-17	1.00000	3.30160e-17	1.000000
rad43	1.44753e-17	1.00000	1.44753e-17	1.000000
rad62	4.84281e-18	1.00000	4.84281e-18	1.000000
rad52	5.03246e-19	1.00000	5.03247e-19	1.000000
PhcycC3H3_A+H	3.91819e-19	1.00000	3.91820e-19	1.000000
rad70	3.84193e-19	1.00000	3.84193e-19	1.000000
rad55	1.06683e-19	1.00000	1.06683e-19	1.000000
rad51	1.45199e-20	1.00000	1.45199e-20	1.000000
PAH1+H	5.66983e-21	1.00000	5.66983e-21	1.000000
rad34	7.52852e-22	1.00000	7.52853e-22	1.000000
rad58	4.82167e-22	1.00000	4.82167e-22	1.000000
rad65	1.21743e-22	1.00000	1.21743e-22	1.000000
rad42	8.51139e-24	1.00000	8.51140e-24	1.000000
rad41	2.39313e-24	1.00000	2.39314e-24	1.000000
rad47	1.34577e-27	1.00000	1.34577e-27	1.000000

10.000000 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.25016e-17 (1.00)	6.25016e-17 (1.00)
Formation of rad11	5.06355e-17 (0.810)	5.06355e-17 (0.810)
Formation of rad6	1.04318e-17 (0.167)	1.04318e-17 (0.167)
H-abstraction	1.43428e-18 (0.0229)	1.43428e-18 (0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.920116	0.920116	0.920117	0.920117
Indene+H	0.0546460	0.974762	0.0546461	0.974764
Benzene+2-propynyl	0.0229478	0.997710	0.0229478	0.997711
C2H2+PhCH2	0.000978508	0.998689	0.000978508	0.998690
rad23	0.000858100	0.999547	0.000858101	0.999548
rad7	0.000194800	0.999742	0.000194800	0.999743
rad2	9.55169e-05	0.999837	9.55170e-05	0.999838
rad11	6.97112e-05	0.999907	6.97112e-05	0.999908
rad45	3.17927e-05	0.999939	3.17928e-05	0.999940
PhCHCCH2+H	1.68208e-05	0.999956	1.68208e-05	0.999957
rad28	9.90594e-06	0.999965	9.90594e-06	0.999967
PhCCH+CH3	7.54022e-06	0.999973	7.54022e-06	0.999974
rad10	7.29596e-06	0.999980	7.29596e-06	0.999981
rad1	6.67144e-06	0.999987	6.67144e-06	0.999988
rad3	3.73759e-06	0.999991	3.73759e-06	0.999992
rad36	2.00494e-06	0.999993	2.00494e-06	0.999994
rad4	1.94205e-06	0.999995	1.94206e-06	0.999996
rad9	1.24314e-06	0.999996	1.24314e-06	0.999997
Phenyl+Allene	1.08590e-06	0.999997	0.00000	0.999997
rad22	1.00436e-06	0.999998	1.00436e-06	0.999998
PhCCCH3+H	9.23095e-07	0.999999	9.23097e-07	0.999999
rad13	6.07554e-07	0.999999	6.07554e-07	0.999999
rad26	5.90897e-07	1.00000	5.90897e-07	1.00000
Ph+MeAc	1.85726e-07	1.00000	1.85727e-07	1.00000
rad30	7.17857e-08	1.00000	7.17857e-08	1.00000

PhCH2CCH+H	1.99696e-08	1.00000	1.99696e-08	1.00000
rad15	1.63753e-08	1.00000	1.63753e-08	1.00000
rad8	1.39168e-08	1.00000	1.39169e-08	1.00000
PAH9+H	1.28676e-08	1.00000	1.28676e-08	1.00000
rad35	5.88471e-09	1.00000	5.88472e-09	1.00000
rad38	3.82678e-09	1.00000	3.82678e-09	1.00000
PAH7+H	2.63403e-09	1.00000	2.63404e-09	1.00000
rad33	8.43979e-10	1.00000	8.43980e-10	1.00000
rad25	8.07463e-10	1.00000	8.07464e-10	1.00000
rad39	6.07780e-10	1.00000	6.07781e-10	1.00000
rad14	3.98759e-10	1.00000	3.98759e-10	1.00000
rad12	1.37760e-10	1.00000	1.37760e-10	1.00000
rad27	8.17239e-11	1.00000	8.17240e-11	1.00000
rad46	6.13799e-11	1.00000	6.13800e-11	1.00000
rad60syn	1.20124e-11	1.00000	1.20124e-11	1.00000
rad37	1.01017e-11	1.00000	1.01017e-11	1.00000
rad18	4.43722e-12	1.00000	4.43722e-12	1.00000
rad60anti	4.22462e-12	1.00000	4.22462e-12	1.00000
rad5	2.32502e-12	1.00000	2.32502e-12	1.00000
rad20	1.18698e-12	1.00000	1.18699e-12	1.00000
rad21	7.67984e-13	1.00000	7.67984e-13	1.00000
rad24	2.73240e-13	1.00000	2.73240e-13	1.00000
PAH3+H	1.04878e-13	1.00000	1.04878e-13	1.00000
rad59	3.15881e-14	1.00000	3.15881e-14	1.00000
rad19syn	1.25692e-14	1.00000	1.25693e-14	1.00000
rad31	5.88814e-15	1.00000	5.88814e-15	1.00000
rad50	3.15434e-15	1.00000	3.15434e-15	1.00000
rad54	3.82096e-16	1.00000	3.82096e-16	1.00000
PAH10+CH3	1.15612e-16	1.00000	1.15612e-16	1.00000
rad43	4.70596e-17	1.00000	4.70597e-17	1.00000
rad62	1.68279e-17	1.00000	1.68279e-17	1.00000
PhcycC3H3_A+H	1.68677e-18	1.00000	1.68677e-18	1.00000
rad70	1.55638e-18	1.00000	1.55639e-18	1.00000
rad52	1.35897e-18	1.00000	1.35898e-18	1.00000
rad55	4.47126e-19	1.00000	4.47127e-19	1.00000
rad51	5.14928e-20	1.00000	5.14928e-20	1.00000
PAH1+H	2.79515e-20	1.00000	2.79515e-20	1.00000
rad34	3.70878e-21	1.00000	3.70879e-21	1.00000
rad58	2.08316e-21	1.00000	2.08316e-21	1.00000
rad65	4.85726e-22	1.00000	4.85726e-22	1.00000
rad42	4.51286e-23	1.00000	4.51287e-23	1.00000
rad41	1.28572e-23	1.00000	1.28572e-23	1.00000
rad47	5.19402e-27	1.00000	5.19402e-27	1.00000

10.000000 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83272e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04076e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55481e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.916098	0.916098	0.916099	0.916099
Indene+H	0.0548033	0.970901	0.0548034	0.970902
Benzene+2-propynyl	0.0268483	0.997749	0.0268483	0.997750
C2H2+PhCH2	0.00104097	0.998790	0.00104098	0.998791
rad23	0.000738315	0.999529	0.000738316	0.999530
rad7	0.000192745	0.999721	0.000192745	0.999723
rad2	0.000110005	0.999831	0.000110005	0.999833
rad11	6.81345e-05	0.999900	6.81346e-05	0.999901
rad45	2.71965e-05	0.999927	2.71966e-05	0.999928
PhCHCCH2+H	1.97198e-05	0.999946	1.97198e-05	0.999948
rad28	1.22726e-05	0.999959	1.22726e-05	0.999960
PhCCH+CH3	1.05943e-05	0.999969	1.05943e-05	0.999970
rad10	8.43047e-06	0.999978	8.43049e-06	0.999979
rad1	7.76592e-06	0.999986	7.76593e-06	0.999987
rad3	3.83707e-06	0.999989	3.83707e-06	0.999990
rad4	1.99987e-06	0.999991	1.99987e-06	0.999992
rad36	1.72190e-06	0.999993	1.72190e-06	0.999994
rad9	1.44253e-06	0.999995	1.44253e-06	0.999996
PhCCCH3+H	1.44079e-06	0.999996	1.44080e-06	0.999997
Phenyl+Allene	1.41512e-06	0.999997	0.00000	0.999997
rad22	8.66813e-07	0.999998	8.66813e-07	0.999998
rad26	8.45630e-07	0.999999	8.45631e-07	0.999999
rad13	6.02077e-07	1.000000	6.02077e-07	0.999999
Ph+MeAc	3.14890e-07	1.00000	3.14891e-07	1.000000
rad30	7.83751e-08	1.00000	7.83752e-08	1.000000

PhCH2CCH+H	3.10924e-08	1.00000	3.10924e-08	1.000000
rad8	2.18782e-08	1.00000	2.18783e-08	1.000000
rad15	1.82083e-08	1.00000	1.82083e-08	1.000000
PAH9+H	1.48461e-08	1.00000	1.48461e-08	1.000000
rad35	6.69177e-09	1.00000	6.69178e-09	1.000000
PAH7+H	4.92555e-09	1.00000	4.92556e-09	1.000000
rad38	4.44994e-09	1.00000	4.44995e-09	1.000000
rad39	1.16523e-09	1.00000	1.16523e-09	1.000000
rad33	8.42709e-10	1.00000	8.42709e-10	1.000000
rad25	7.31762e-10	1.00000	7.31763e-10	1.000000
rad14	4.07584e-10	1.00000	4.07585e-10	1.000000
rad12	2.71393e-10	1.00000	2.71394e-10	1.000000
rad27	9.38609e-11	1.00000	9.38611e-11	1.000000
rad46	7.67592e-11	1.00000	7.67593e-11	1.000000
rad37	2.15787e-11	1.00000	2.15787e-11	1.000000
rad60syn	1.55261e-11	1.00000	1.55261e-11	1.000000
rad60anti	5.59261e-12	1.00000	5.59262e-12	1.000000
rad5	4.71932e-12	1.00000	4.71933e-12	1.000000
rad18	4.03371e-12	1.00000	4.03372e-12	1.000000
rad20	1.09501e-12	1.00000	1.09501e-12	1.000000
rad21	7.08117e-13	1.00000	7.08118e-13	1.000000
rad24	2.36157e-13	1.00000	2.36157e-13	1.000000
PAH3+H	1.87886e-13	1.00000	1.87886e-13	1.000000
rad59	5.50308e-14	1.00000	5.50309e-14	1.000000
rad19syn	3.30580e-14	1.00000	3.30581e-14	1.000000
rad31	6.97908e-15	1.00000	6.97909e-15	1.000000
rad50	5.89957e-15	1.00000	5.89958e-15	1.000000
rad54	1.13598e-15	1.00000	1.13598e-15	1.000000
PAH10+CH3	3.69432e-16	1.00000	3.69432e-16	1.000000
rad43	1.40432e-16	1.00000	1.40432e-16	1.000000
rad62	5.33093e-17	1.00000	5.33093e-17	1.000000
PhcycC3H3_A+H	6.44152e-18	1.00000	6.44152e-18	1.000000
rad70	5.62297e-18	1.00000	5.62297e-18	1.000000
rad52	3.45459e-18	1.00000	3.45460e-18	1.000000
rad55	1.66813e-18	1.00000	1.66813e-18	1.000000
rad51	1.66710e-19	1.00000	1.66710e-19	1.000000
PAH1+H	1.19749e-19	1.00000	1.19750e-19	1.000000
rad34	1.58426e-20	1.00000	1.58426e-20	1.000000
rad58	7.96963e-21	1.00000	7.96965e-21	1.000000
rad65	1.73861e-21	1.00000	1.73862e-21	1.000000
rad42	2.05315e-22	1.00000	2.05315e-22	1.000000
rad41	5.91890e-23	1.00000	5.91891e-23	1.000000
rad47	1.77376e-26	1.00000	1.77376e-26	1.000000

10.000000 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.21641e-16 (1.00)	1.21641e-16 (1.00)
Formation of rad11	9.54219e-17 (0.784)	9.54217e-17 (0.784)
Formation of rad6	2.24583e-17 (0.185)	2.24582e-17 (0.185)
H-abstraction	3.76121e-18 (0.0309)	3.76121e-18 (0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.911818	0.911818	0.911819	0.911819
Indene+H	0.0550215	0.966839	0.0550216	0.966841
Benzene+2-propynyl	0.0309205	0.997760	0.0309205	0.997762
C2H2+PhCH2	0.00111118	0.998871	0.00111118	0.998873
rad23	0.000633801	0.999505	0.000633802	0.999507
rad7	0.000190718	0.999695	0.000190718	0.999697
rad2	0.000126083	0.999821	0.000126083	0.999823
rad11	6.67661e-05	0.999888	6.67662e-05	0.999890
PhCHCCH2+H	2.33544e-05	0.999911	2.33544e-05	0.999914
rad45	2.32276e-05	0.999935	2.32276e-05	0.999937
rad28	1.51985e-05	0.999950	1.51985e-05	0.999952
PhCCH+CH3	1.48741e-05	0.999965	1.48741e-05	0.999967
rad10	9.68797e-06	0.999974	9.68798e-06	0.999977
rad1	9.00416e-06	0.999983	9.00418e-06	0.999986
rad3	3.95006e-06	0.999987	3.95006e-06	0.999989
PhCCCH3+H	2.21693e-06	0.999990	2.21694e-06	0.999992
rad4	2.06561e-06	0.999992	2.06561e-06	0.999994
Phenyl+Allene	1.84218e-06	0.999994	0.00000	0.999994
rad9	1.67940e-06	0.999995	1.67940e-06	0.999995
rad36	1.47725e-06	0.999997	1.47725e-06	0.999997
rad26	1.19074e-06	0.999998	1.19074e-06	0.999998
rad22	7.47742e-07	0.999999	7.47744e-07	0.999999
rad13	5.96751e-07	0.999999	5.96752e-07	0.999999
Ph+MeAc	5.23441e-07	1.000000	5.23441e-07	1.000000
rad30	8.59204e-08	1.000000	8.59206e-08	1.000000

PhCH2CCH+H	4.76602e-08	1.000000	4.76603e-08	1.000000
rad8	3.39856e-08	1.000000	3.39856e-08	1.000000
rad15	2.03357e-08	1.000000	2.03357e-08	1.000000
PAH9+H	1.71780e-08	1.000000	1.71781e-08	1.000000
PAH7+H	9.08354e-09	1.000000	9.08356e-09	1.000000
rad35	7.62850e-09	1.000000	7.62852e-09	1.000000
rad38	5.19149e-09	1.000000	5.19149e-09	1.000000
rad39	2.19565e-09	1.000000	2.19565e-09	1.000000
rad33	8.41635e-10	1.000000	8.41637e-10	1.000000
rad25	6.71758e-10	1.000000	6.71760e-10	1.000000
rad12	5.16259e-10	1.000000	5.16260e-10	1.000000
rad14	4.17654e-10	1.000000	4.17655e-10	1.000000
rad27	1.07329e-10	1.000000	1.07329e-10	1.000000
rad46	9.63087e-11	1.000000	9.63089e-11	1.000000
rad37	4.41839e-11	1.000000	4.41840e-11	1.000000
rad60syn	2.00987e-11	1.000000	2.00988e-11	1.000000
rad5	9.23284e-12	1.000000	9.23286e-12	1.000000
rad60anti	7.40276e-12	1.000000	7.40277e-12	1.000000
rad18	3.69640e-12	1.000000	3.69641e-12	1.000000
rad20	1.01925e-12	1.000000	1.01925e-12	1.000000
rad21	6.58819e-13	1.000000	6.58820e-13	1.000000
PAH3+H	3.28764e-13	1.000000	3.28765e-13	1.000000
rad24	2.03899e-13	1.000000	2.03899e-13	1.000000
rad59	9.37459e-14	1.000000	9.37461e-14	1.000000
rad19syn	8.19842e-14	1.000000	8.19843e-14	1.000000
rad50	1.07939e-14	1.000000	1.07939e-14	1.000000
rad31	8.34135e-15	1.000000	8.34136e-15	1.000000
rad54	3.14026e-15	1.000000	3.14027e-15	1.000000
PAH10+CH3	1.08609e-15	1.000000	1.08609e-15	1.000000
rad43	3.87884e-16	1.000000	3.87885e-16	1.000000
rad62	1.55349e-16	1.000000	1.55350e-16	1.000000
PhcycC3H3_A+H	2.20793e-17	1.000000	2.20793e-17	1.000000
rad70	1.83351e-17	1.000000	1.83351e-17	1.000000
rad52	8.32337e-18	1.000000	8.32338e-18	1.000000
rad55	5.60328e-18	1.000000	5.60329e-18	1.000000
rad51	4.96912e-19	1.000000	4.96913e-19	1.000000
PAH1+H	4.52604e-19	1.000000	4.52605e-19	1.000000
rad34	5.96154e-20	1.000000	5.96155e-20	1.000000
rad58	2.73345e-20	1.000000	2.73346e-20	1.000000
rad65	5.64193e-21	1.000000	5.64194e-21	1.000000
rad42	8.15703e-22	1.000000	8.15705e-22	1.000000
rad41	2.37674e-22	1.000000	2.37674e-22	1.000000
rad47	5.44146e-26	1.000000	5.44147e-26	1.000000

10.000000 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.63720e-16 (1.00)	1.63720e-16 (1.00)
Formation of rad11	1.26419e-16 (0.772)	1.26418e-16 (0.772)
Formation of rad6	3.15515e-17 (0.193)	3.15514e-17 (0.193)
H-abstraction	5.75028e-18 (0.0351)	5.75028e-18 (0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.907304	0.907304	0.907306	0.907306
Indene+H	0.0553138	0.962618	0.0553140	0.962620
Benzene+2-propynyl	0.0351226	0.997741	0.0351226	0.997743
C2H2+PhCH2	0.00119033	0.998931	0.00119033	0.998933
rad23	0.000543070	0.999474	0.000543071	0.999476
rad7	0.000188717	0.999663	0.000188717	0.999665
rad2	0.000143743	0.999806	0.000143744	0.999809
rad11	6.55542e-05	0.999872	6.55542e-05	0.999874
PhCHCCH2+H	2.79499e-05	0.999900	2.79500e-05	0.999902
PhCCH+CH3	2.08371e-05	0.999921	2.08372e-05	0.999923
rad45	1.98144e-05	0.999941	1.98144e-05	0.999943
rad28	1.87985e-05	0.999959	1.87986e-05	0.999961
rad10	1.10677e-05	0.999970	1.10678e-05	0.999973
rad1	1.03937e-05	0.999981	1.03937e-05	0.999983
rad3	4.07677e-06	0.999985	4.07678e-06	0.999987
PhCCCH3+H	3.36040e-06	0.999988	3.36041e-06	0.999990
Phenyl+Allene	2.39703e-06	0.999991	0.000000	0.999990
rad4	2.13956e-06	0.999993	2.13956e-06	0.999993
rad9	1.96176e-06	0.999995	1.96177e-06	0.999994
rad26	1.64849e-06	0.999996	1.64850e-06	0.999996
rad36	1.26657e-06	0.999998	1.26658e-06	0.999997
Ph+MeAc	8.52943e-07	0.999999	8.52945e-07	0.999998
rad22	6.45014e-07	0.999999	6.45016e-07	0.999999
rad13	5.91575e-07	1.000000	5.91576e-07	0.999999
rad30	9.45913e-08	1.000000	9.45915e-08	1.000000

PhCH2CCH+H	7.20858e-08	1.000000	7.20859e-08	1.000000
rad8	5.20884e-08	1.000000	5.20885e-08	1.000000
rad15	2.28140e-08	1.000000	2.28141e-08	1.000000
PAH9+H	1.99393e-08	1.000000	1.99394e-08	1.000000
PAH7+H	1.64853e-08	1.000000	1.64854e-08	1.000000
rad35	8.72085e-09	1.000000	8.72087e-09	1.000000
rad38	6.07793e-09	1.000000	6.07795e-09	1.000000
rad39	4.05899e-09	1.000000	4.05900e-09	1.000000
rad12	9.49182e-10	1.000000	9.49184e-10	1.000000
rad33	8.40775e-10	1.000000	8.40777e-10	1.000000
rad25	6.23849e-10	1.000000	6.23850e-10	1.000000
rad14	4.28995e-10	1.000000	4.28996e-10	1.000000
rad27	1.22129e-10	1.000000	1.22129e-10	1.000000
rad46	1.21251e-10	1.000000	1.21251e-10	1.000000
rad37	8.69033e-11	1.000000	8.69036e-11	1.000000
rad60syn	2.60616e-11	1.000000	2.60617e-11	1.000000
rad5	1.74498e-11	1.000000	1.74498e-11	1.000000
rad60anti	9.80094e-12	1.000000	9.80093e-12	1.000000
rad18	3.41274e-12	1.000000	3.41275e-12	1.000000
rad20	9.57405e-13	1.000000	9.57408e-13	1.000000
rad21	6.18616e-13	1.000000	6.18618e-13	1.000000
PAH3+H	5.63706e-13	1.000000	5.63706e-13	1.000000
rad19syn	1.92666e-13	1.000000	1.92666e-13	1.000000
rad24	1.75949e-13	1.000000	1.75949e-13	1.000000
rad59	1.56662e-13	1.000000	1.56662e-13	1.000000
rad50	1.93679e-14	1.000000	1.93679e-14	1.000000
rad31	1.00507e-14	1.000000	1.00507e-14	1.000000
rad54	8.11968e-15	1.000000	8.11970e-15	1.000000
PAH10+CH3	2.95799e-15	1.000000	2.95800e-15	1.000000
rad43	9.98542e-16	1.000000	9.98542e-16	1.000000
rad62	4.19530e-16	1.000000	4.19531e-16	1.000000
PhcycC3H3_A+H	6.86204e-17	1.000000	6.86206e-17	1.000000
rad70	5.45027e-17	1.000000	5.45028e-17	1.000000
rad52	1.91025e-17	1.000000	1.91025e-17	1.000000
rad55	1.71127e-17	1.000000	1.71128e-17	1.000000
PAH1+H	1.52894e-18	1.000000	1.52894e-18	1.000000
rad51	1.37298e-18	1.000000	1.37299e-18	1.000000
rad34	2.00311e-19	1.000000	2.00311e-19	1.000000
rad58	8.49443e-20	1.000000	8.49445e-20	1.000000
rad65	1.67453e-20	1.000000	1.67454e-20	1.000000
rad42	2.87279e-21	1.000000	2.87280e-21	1.000000
rad41	8.45208e-22	1.000000	8.45210e-22	1.000000
rad47	1.51887e-25	1.000000	1.51888e-25	1.000000

10.000000 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.15887e-16 (1.00)	2.15886e-16 (1.00)
Formation of rad11	1.64133e-16 (0.760)	1.64132e-16 (0.760)
Formation of rad6	4.32452e-17 (0.200)	4.32450e-17 (0.200)
H-abstraction	8.50919e-18 (0.0394)	8.50919e-18 (0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.902581	0.902581	0.902584	0.902584
Indene+H	0.0556947	0.958276	0.0556949	0.958279
Benzene+2-propynyl	0.0394150	0.997691	0.0394152	0.997694
C2H2+PhCH2	0.00127989	0.998971	0.00127989	0.998974
rad23	0.000464682	0.999435	0.000464683	0.999438
rad7	0.000186742	0.999622	0.000186742	0.999625
rad2	0.000162926	0.999785	0.000162927	0.999788
rad11	6.44614e-05	0.999849	6.44617e-05	0.999853
PhCHCCH2+H	3.37984e-05	0.999883	3.37986e-05	0.999886
PhCCH+CH3	2.90869e-05	0.999912	2.90870e-05	0.999915
rad28	2.32017e-05	0.999936	2.32018e-05	0.999939
rad45	1.68913e-05	0.999952	1.68913e-05	0.999956
rad10	1.25653e-05	0.999965	1.25654e-05	0.999968
rad1	1.19390e-05	0.999977	1.19391e-05	0.999980
PhCCCH3+H	5.01566e-06	0.999982	5.01566e-06	0.999985
rad3	4.21696e-06	0.999986	4.21697e-06	0.999989
Phenyl+Allene	3.11939e-06	0.999989	0.000000	0.999989
rad9	2.29971e-06	0.999992	2.29972e-06	0.999992
rad26	2.24280e-06	0.999994	2.24281e-06	0.999994
rad4	2.22173e-06	0.999996	2.22174e-06	0.999996
Ph+MeAc	1.36253e-06	0.999997	1.36254e-06	0.999997
rad36	1.08584e-06	0.999999	1.08585e-06	0.999998
rad13	5.86546e-07	0.999999	5.86548e-07	0.999999
rad22	5.56688e-07	1.000000	5.56689e-07	1.000000
PhCH2CCH+H	1.07778e-07	1.000000	1.07779e-07	1.000000

rad30	1.04594e-07	1.000000	1.04594e-07	1.000000
rad8	7.86901e-08	1.000000	7.86903e-08	1.000000
PAH7+H	2.93876e-08	1.000000	2.93877e-08	1.000000
rad15	2.57128e-08	1.000000	2.57129e-08	1.000000
PAH9+H	2.32255e-08	1.000000	2.32256e-08	1.000000
rad35	1.00011e-08	1.000000	1.00011e-08	1.000000
rad39	7.35049e-09	1.000000	7.35052e-09	1.000000
rad38	7.14283e-09	1.000000	7.14285e-09	1.000000
rad12	1.68875e-09	1.000000	1.68876e-09	1.000000
rad33	8.40146e-10	1.000000	8.40149e-10	1.000000
rad25	5.85319e-10	1.000000	5.85321e-10	1.000000
rad14	4.41589e-10	1.000000	4.41590e-10	1.000000
rad37	1.64531e-10	1.000000	1.64532e-10	1.000000
rad46	1.53199e-10	1.000000	1.53200e-10	1.000000
rad27	1.38221e-10	1.000000	1.38222e-10	1.000000
rad60syn	3.38542e-11	1.000000	3.38543e-11	1.000000
rad5	3.19248e-11	1.000000	3.19249e-11	1.000000
rad60anti	1.29824e-11	1.000000	1.29824e-11	1.000000
rad18	3.17313e-12	1.000000	3.17314e-12	1.000000
PAH3+H	9.49359e-13	1.000000	9.49361e-13	1.000000
rad20	9.07642e-13	1.000000	9.07645e-13	1.000000
rad21	5.86329e-13	1.000000	5.86330e-13	1.000000
rad19syn	4.30660e-13	1.000000	4.30661e-13	1.000000
rad59	2.57449e-13	1.000000	2.57450e-13	1.000000
rad24	1.51826e-13	1.000000	1.51826e-13	1.000000
rad50	3.41400e-14	1.000000	3.41400e-14	1.000000
rad54	1.97321e-14	1.000000	1.97322e-14	1.000000
rad31	1.22069e-14	1.000000	1.22070e-14	1.000000
PAH10+CH3	7.50793e-15	1.000000	7.50795e-15	1.000000
rad43	2.40969e-15	1.000000	2.40970e-15	1.000000
rad62	1.05646e-15	1.000000	1.05647e-15	1.000000
PhcycC3H3_A+H	1.95095e-16	1.000000	1.95096e-16	1.000000
rad70	1.48966e-16	1.000000	1.48967e-16	1.000000
rad55	4.79241e-17	1.000000	4.79242e-17	1.000000
rad52	4.19091e-17	1.000000	4.19092e-17	1.000000
PAH1+H	4.66872e-18	1.000000	4.66874e-18	1.000000
rad51	3.53654e-18	1.000000	3.53655e-18	1.000000
rad34	6.08038e-19	1.000000	6.08040e-19	1.000000
rad58	2.41369e-19	1.000000	2.41370e-19	1.000000
rad65	4.58028e-20	1.000000	4.58030e-20	1.000000
rad42	9.08510e-21	1.000000	9.08512e-21	1.000000
rad41	2.69686e-21	1.000000	2.69687e-21	1.000000
rad47	3.89981e-25	1.000000	3.89982e-25	1.000000

10.000000 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79491e-16 (1.00)	2.79490e-16 (1.00)
Formation of rad11	2.09281e-16 (0.749)	2.09280e-16 (0.749)
Formation of rad6	5.79792e-17 (0.207)	5.79789e-17 (0.207)
H-abstraction	1.22310e-17 (0.0438)	1.22310e-17 (0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.897667	0.897667	0.897671	0.897671
Indene+H	0.0561803	0.953847	0.0561805	0.953851
Benzene+2-propynyl	0.0437616	0.997609	0.0437617	0.997613
C2H2+PhCH2	0.00138162	0.998990	0.00138163	0.998994
rad23	0.000397275	0.999388	0.000397276	0.999392
rad7	0.000184792	0.999572	0.000184793	0.999577
rad2	0.000183518	0.999756	0.000183519	0.999760
rad11	6.34608e-05	0.999819	6.34610e-05	0.999824
PhCHCCH2+H	4.12741e-05	0.999861	4.12742e-05	0.999865
PhCCH+CH3	4.04076e-05	0.999901	4.04078e-05	0.999905
rad28	2.85480e-05	0.999930	2.85481e-05	0.999934
rad45	1.43977e-05	0.999944	1.43978e-05	0.999948
rad10	1.41719e-05	0.999958	1.41719e-05	0.999962
rad1	1.36420e-05	0.999972	1.36421e-05	0.999976
PhCCCH3+H	7.37021e-06	0.999979	7.37024e-06	0.999983
rad3	4.36989e-06	0.999984	4.36990e-06	0.999988
Phenyl+Allene	4.06212e-06	0.999988	0.000000	0.999988
rad26	2.99792e-06	0.999991	2.99793e-06	0.999991
rad9	2.70584e-06	0.999993	2.70585e-06	0.999993
rad4	2.31194e-06	0.999996	2.31195e-06	0.999996
Ph+MeAc	2.13431e-06	0.999998	2.13431e-06	0.999998
rad36	9.31357e-07	0.999999	9.31361e-07	0.999999
rad13	5.81661e-07	0.999999	5.81663e-07	0.999999
rad22	4.80998e-07	1.000000	4.81000e-07	1.000000
PhCH2CCH+H	1.59520e-07	1.000000	1.59520e-07	1.000000

rad8	1.17105e-07	1.00000	1.17105e-07	1.00000
rad30	1.16183e-07	1.00000	1.16183e-07	1.00000
PAH7+H	5.13750e-08	1.00000	5.13751e-08	1.00000
rad15	2.91179e-08	1.00000	2.91180e-08	1.00000
PAH9+H	2.71572e-08	1.00000	2.71573e-08	1.00000
rad39	1.30232e-08	1.00000	1.30233e-08	1.00000
rad35	1.15095e-08	1.00000	1.15096e-08	1.00000
rad38	8.42873e-09	1.00000	8.42876e-09	1.00000
rad12	2.91133e-09	1.00000	2.91134e-09	1.00000
rad33	8.39765e-10	1.00000	8.39768e-10	1.00000
rad25	5.54109e-10	1.00000	5.54111e-10	1.00000
rad14	4.55369e-10	1.00000	4.55371e-10	1.00000
rad37	3.00449e-10	1.00000	3.00450e-10	1.00000
rad46	1.94285e-10	1.00000	1.94286e-10	1.00000
rad27	1.55525e-10	1.00000	1.55525e-10	1.00000
rad5	5.66406e-11	1.00000	5.66408e-11	1.00000
rad60syn	4.40589e-11	1.00000	4.40590e-11	1.00000
rad60anti	1.72087e-11	1.00000	1.72088e-11	1.00000
rad18	2.97009e-12	1.00000	2.97010e-12	1.00000
PAH3+H	1.57291e-12	1.00000	1.57291e-12	1.00000
rad19syn	9.18313e-13	1.00000	9.18317e-13	1.00000
rad20	8.68472e-13	1.00000	8.68475e-13	1.00000
rad21	5.61002e-13	1.00000	5.61004e-13	1.00000
rad59	4.16733e-13	1.00000	4.16734e-13	1.00000
rad24	1.31087e-13	1.00000	1.31087e-13	1.00000
rad50	5.91675e-14	1.00000	5.91677e-14	1.00000
rad54	4.52501e-14	1.00000	4.52502e-14	1.00000
PAH10+CH3	1.78531e-14	1.00000	1.78532e-14	1.00000
rad31	1.49426e-14	1.00000	1.49426e-14	1.00000
rad43	5.47805e-15	1.00000	5.47808e-15	1.00000
rad62	2.49403e-15	1.00000	2.49404e-15	1.00000
PhcycC3H3_A+H	5.11405e-16	1.00000	5.11407e-16	1.00000
rad70	3.77137e-16	1.00000	3.77138e-16	1.00000
rad55	1.23995e-16	1.00000	1.23995e-16	1.00000
rad52	8.81104e-17	1.00000	8.81108e-17	1.00000
PAH1+H	1.30147e-17	1.00000	1.30148e-17	1.00000
rad51	8.53363e-18	1.00000	8.53367e-18	1.00000
rad34	1.68435e-18	1.00000	1.68435e-18	1.00000
rad58	6.32177e-19	1.00000	6.32180e-19	1.00000
rad65	1.16231e-19	1.00000	1.16232e-19	1.00000
rad42	2.60880e-20	1.00000	2.60881e-20	1.00000
rad41	7.80833e-21	1.00000	7.80835e-21	1.00000
rad47	9.29627e-25	1.00000	9.29631e-25	1.00000

10.000000 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.55893e-16 (1.00)	3.55891e-16 (1.00)
Formation of rad11	2.62555e-16 (0.738)	2.62554e-16 (0.738)
Formation of rad6	7.62093e-17 (0.214)	7.62089e-17 (0.214)
H-abstraction	1.71289e-17 (0.0481)	1.71289e-17 (0.0481)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.892573	0.892573	0.892577	0.892577
Indene+H	0.0567887	0.949362	0.0567891	0.949366
Benzene+2-propynyl	0.0481294	0.997491	0.0481296	0.997496
C2H2+PhCH2	0.00149764	0.998989	0.00149765	0.998994
rad23	0.000339567	0.999328	0.000339569	0.999333
rad2	0.000205350	0.999534	0.000205351	0.999539
rad7	0.000182866	0.999716	0.000182867	0.999722
rad11	6.25319e-05	0.999779	6.25322e-05	0.999784
PhCCH+CH3	5.58013e-05	0.999835	5.58016e-05	0.999840
PhCHCCH2+H	5.08490e-05	0.999886	5.08493e-05	0.999891
rad28	3.49851e-05	0.999921	3.49853e-05	0.999926
rad10	1.58744e-05	0.999936	1.58745e-05	0.999942
rad1	1.55005e-05	0.999952	1.55006e-05	0.999957
rad45	1.22788e-05	0.999964	1.22789e-05	0.999969
PhCCCH3+H	1.06621e-05	0.999975	1.06622e-05	0.999980
Phenyl+Allene	5.29517e-06	0.999980	0.00000	0.999980
rad3	4.53438e-06	0.999985	4.53441e-06	0.999985
rad26	3.93698e-06	0.999989	3.93700e-06	0.999989
Ph+MeAc	3.27947e-06	0.999992	3.27949e-06	0.999992
rad9	3.19594e-06	0.999995	3.19596e-06	0.999995
rad4	2.40974e-06	0.999998	2.40976e-06	0.999997
rad36	7.99781e-07	0.999998	7.99785e-07	0.999998
rad13	5.76915e-07	0.999999	5.76918e-07	0.999999
rad22	4.16346e-07	0.999999	4.16348e-07	0.999999
PhCH2CCH+H	2.33950e-07	1.000000	2.33952e-07	0.999999

rad8	1.71623e-07	1.000000	1.71624e-07	1.000000
rad30	1.29666e-07	1.000000	1.29667e-07	1.000000
PAH7+H	8.79603e-08	1.000000	8.79607e-08	1.000000
rad15	3.31352e-08	1.000000	3.31354e-08	1.000000
PAH9+H	3.18860e-08	1.000000	3.18861e-08	1.000000
rad39	2.25524e-08	1.000000	2.25525e-08	1.000000
rad35	1.32963e-08	1.000000	1.32964e-08	1.000000
rad38	9.98950e-09	1.000000	9.98959e-09	1.000000
rad12	4.86998e-09	1.000000	4.87001e-09	1.000000
rad33	8.39645e-10	1.000000	8.39650e-10	1.000000
rad37	5.30181e-10	1.000000	5.30184e-10	1.000000
rad25	5.28640e-10	1.000000	5.28643e-10	1.000000
rad14	4.70222e-10	1.000000	4.70224e-10	1.000000
rad46	2.47316e-10	1.000000	2.47317e-10	1.000000
rad27	1.73910e-10	1.000000	1.73911e-10	1.000000
rad5	9.76010e-11	1.000000	9.76019e-11	1.000000
rad60syn	5.74453e-11	1.000000	5.74456e-11	1.000000
rad60anti	2.28281e-11	1.000000	2.28282e-11	1.000000
rad18	2.79768e-12	1.000000	2.79770e-12	1.000000
PAH3+H	2.56584e-12	1.000000	2.56586e-12	1.000000
rad19syn	1.87242e-12	1.000000	1.87243e-12	1.000000
rad20	8.38691e-13	1.000000	8.38696e-13	1.000000
rad59	6.65082e-13	1.000000	6.65084e-13	1.000000
rad21	5.41866e-13	1.000000	5.41868e-13	1.000000
rad24	1.13324e-13	1.000000	1.13325e-13	1.000000
rad50	1.00830e-13	1.000000	1.00830e-13	1.000000
rad54	9.82645e-14	1.000000	9.82644e-14	1.000000
PAH10+CH3	3.99583e-14	1.000000	3.99586e-14	1.000000
rad31	1.84355e-14	1.000000	1.84356e-14	1.000000
rad43	1.17816e-14	1.000000	1.17817e-14	1.000000
rad62	5.54543e-15	1.000000	5.54545e-15	1.000000
PhcycC3H3_A+H	1.24464e-15	1.000000	1.24465e-15	1.000000
rad70	8.90170e-16	1.000000	8.90175e-16	1.000000
rad55	2.98384e-16	1.000000	2.98385e-16	1.000000
rad52	1.77833e-16	1.000000	1.77834e-16	1.000000
PAH1+H	3.34087e-17	1.000000	3.34088e-17	1.000000
rad51	1.93741e-17	1.000000	1.93742e-17	1.000000
rad34	4.29575e-18	1.000000	4.29577e-18	1.000000
rad58	1.53705e-18	1.000000	1.53706e-18	1.000000
rad65	2.75272e-19	1.000000	2.75273e-19	1.000000
rad42	6.86800e-20	1.000000	6.86804e-20	1.000000
rad41	2.07160e-20	1.000000	2.07162e-20	1.000000
rad47	2.07378e-24	1.000000	2.07379e-24	1.000000

10.000000 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34395e-16 (1.00)	6.34389e-16 (1.00)
Formation of rad11	4.51153e-16 (0.711)	4.51149e-16 (0.711)
Formation of rad6	1.51589e-16 (0.239)	1.51587e-16 (0.239)
H-abstraction	3.16530e-17 (0.0499)	3.16530e-17 (0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.886523	0.886523	0.886531	0.886531
Indene+H	0.0599283	0.946451	0.0599287	0.946460
Benzene+2-propynyl	0.0498949	0.996346	0.0498953	0.996355
C2H2+PhCH2	0.00234715	0.998693	0.00234717	0.998702
rad2	0.000296311	0.998990	0.000296314	0.998999
PhCCH+CH3	0.000224859	0.999215	0.000224861	0.999224
rad23	0.000197508	0.999412	0.000197510	0.999421
rad7	0.000179239	0.999591	0.000179240	0.999600
PhCHCCH2+H	0.000120199	0.999712	0.000120200	0.999721
rad28	7.92734e-05	0.999791	7.92740e-05	0.999800
rad11	5.80832e-05	0.999849	5.80837e-05	0.999858
PhCCCH3+H	4.95493e-05	0.999898	4.95498e-05	0.999908
rad1	2.23282e-05	0.999921	2.23285e-05	0.999930
rad10	2.17113e-05	0.999942	2.17115e-05	0.999952
Ph+MeAc	1.79602e-05	0.999960	1.79603e-05	0.999970
rad26	1.03292e-05	0.999971	1.03293e-05	0.999980
Phenyl+Allene	8.65755e-06	0.999979	0.000000	0.999980
rad45	8.12191e-06	0.999988	8.12198e-06	0.999988
rad3	5.50330e-06	0.999993	5.50336e-06	0.999993
rad4	2.73683e-06	0.999996	2.73685e-06	0.999996
PAH7+H	8.80897e-07	0.999997	8.80904e-07	0.999997
PhCH2CCH+H	7.72813e-07	0.999997	7.72819e-07	0.999998
rad13	6.16759e-07	0.999998	6.16764e-07	0.999998
rad9	4.16358e-07	0.999998	4.16362e-07	0.999999
rad22	3.08805e-07	0.999999	3.08808e-07	0.999999

rad36	2.76818e-07	0.999999	2.76821e-07	0.999999
rad39	2.02950e-07	0.999999	2.02952e-07	1.000000
rad30	1.71615e-07	0.999999	1.71616e-07	1.000000
PAH9+H	6.25235e-08	1.000000	6.25240e-08	1.000000
rad19anti	3.53117e-08	1.000000	3.53121e-08	1.000000
rad35	2.17326e-08	1.000000	2.17328e-08	1.000000
rad38	1.72276e-08	1.000000	1.72277e-08	1.000000
rad37	5.44632e-09	1.000000	5.44636e-09	1.000000
rad33	1.15624e-09	1.000000	1.15625e-09	1.000000
rad25	7.58452e-10	1.000000	7.58458e-10	1.000000
rad14	5.80615e-10	1.000000	5.80619e-10	1.000000
rad46	5.52176e-10	1.000000	5.52181e-10	1.000000
rad15	3.11604e-10	1.000000	3.11607e-10	1.000000
rad27	2.95009e-10	1.000000	2.95011e-10	1.000000
rad60syn	1.17519e-10	1.000000	1.17519e-10	1.000000
rad60anti	4.99662e-11	1.000000	4.99666e-11	1.000000
rad19syn	2.53238e-11	1.000000	2.53240e-11	1.000000
PAH3+H	1.28990e-11	1.000000	1.28992e-11	1.000000
rad18	1.19118e-11	1.000000	1.19118e-11	1.000000
rad20	5.64535e-12	1.000000	5.64540e-12	1.000000
rad21	3.93419e-12	1.000000	3.93422e-12	1.000000
rad59	2.63754e-12	1.000000	2.63756e-12	1.000000
rad54	1.93168e-12	1.000000	1.93170e-12	1.000000
PAH10+CH3	1.14854e-12	1.000000	1.14855e-12	1.000000
rad5	8.25382e-13	1.000000	8.25389e-13	1.000000
rad50	5.88394e-13	1.000000	5.88399e-13	1.000000
rad43	2.07259e-13	1.000000	2.07261e-13	1.000000
rad67	1.65424e-13	1.000000	1.65425e-13	1.000000
rad62	1.12181e-13	1.000000	1.12182e-13	1.000000
rad24	9.08086e-14	1.000000	9.08094e-14	1.000000
rad31	7.72178e-14	1.000000	7.72184e-14	1.000000
PhcycC3H3_A+H	7.15082e-14	1.000000	7.15089e-14	1.000000
rad70	2.46395e-14	1.000000	2.46396e-14	1.000000
rad55	1.13855e-14	1.000000	1.13856e-14	1.000000
PAH1+H	5.10647e-15	1.000000	5.10651e-15	1.000000
rad12	4.33320e-15	1.000000	4.33324e-15	1.000000
rad52	2.22006e-15	1.000000	2.22008e-15	1.000000
rad51	4.56984e-16	1.000000	4.56988e-16	1.000000
rad34	3.59450e-16	1.000000	3.59454e-16	1.000000
rad58	4.71752e-17	1.000000	4.71756e-17	1.000000
rad42	1.44946e-17	1.000000	1.44947e-17	1.000000
rad65	9.22514e-18	1.000000	9.22522e-18	1.000000
rad41	5.00086e-18	1.000000	5.00090e-18	1.000000
rad53	5.92867e-19	1.000000	5.92872e-19	1.000000
rad64	1.63467e-19	1.000000	1.63467e-19	1.000000
rad56	2.09913e-21	1.000000	2.09915e-21	1.000000
rad61	2.84118e-22	1.000000	2.84120e-22	1.000000
rad68syn	2.03307e-22	1.000000	2.03309e-22	1.000000
rad68anti	1.46876e-22	1.000000	1.46877e-22	1.000000
rad47	2.16162e-23	1.000000	2.16164e-23	1.000000
rad40syn	2.80614e-25	1.000000	2.80616e-25	1.000000
rad73	1.38066e-25	1.000000	1.38068e-25	1.000000
rad40anti	8.54429e-26	1.000000	8.54436e-26	1.000000
PAH8+H	5.02773e-26	1.000000	5.02777e-26	1.000000
rad71	3.50952e-27	1.000000	3.50954e-27	1.000000
rad72	5.96759e-33	1.000000	5.96765e-33	1.000000
rad8	8.67531e-37	1.000000	8.67538e-37	1.000000

10.000000 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.11288e-15 (1.00)	5.11211e-15 (1.00)
Formation of rad11	3.08094e-15 (0.603)	3.08042e-15 (0.603)
Formation of rad6	1.54092e-15 (0.301)	1.54066e-15 (0.301)
H-abstraction	4.91025e-16 (0.0960)	4.91025e-16 (0.0961)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.799703	0.799703	0.799825	0.799825
Benzene+2-propynyl	0.0960368	0.895740	0.0960513	0.895876
Indene+H	0.0913012	0.987041	0.0913151	0.987191
C2H2+PhCH2	0.00772313	0.994764	0.00772430	0.994915
PhCCH+CH3	0.00223265	0.996997	0.00223299	0.997148
PhCHCCH2+H	0.000967186	0.997964	0.000967334	0.998116
PhCCCH3+H	0.000468623	0.998432	0.000468694	0.998584
rad2	0.000436269	0.998869	0.000436335	0.999021
rad28	0.000273443	0.999142	0.000273483	0.999294
Ph+MeAc	0.000247809	0.999390	0.000247846	0.999542
rad7	0.000158077	0.999548	0.000158101	0.999700

Phenyl+Allene	0.000151744	0.999700	0.00000	0.999700
rad23	7.70391e-05	0.999777	7.70508e-05	0.999777
rad11	5.00569e-05	0.999827	5.00645e-05	0.999827
rad1	4.06009e-05	0.999867	4.06071e-05	0.999868
rad26	3.24973e-05	0.999900	3.25022e-05	0.999900
rad10	3.18730e-05	0.999932	3.18778e-05	0.999932
PAH7+H	2.37802e-05	0.999956	2.37838e-05	0.999956
PhCH2CCH+H	2.04647e-05	0.999976	2.04678e-05	0.999976
rad3	7.04235e-06	0.999983	7.04342e-06	0.999984
rad39	5.70929e-06	0.999989	5.71015e-06	0.999989
rad45	3.95391e-06	0.999993	3.95450e-06	0.999993
rad4	3.70876e-06	0.999996	3.70933e-06	0.999997
rad30	7.80179e-07	0.999997	7.80298e-07	0.999998
rad13	5.96723e-07	0.999998	5.96814e-07	0.999998
rad19anti	4.69675e-07	0.999998	4.69747e-07	0.999999
PAH9+H	4.42183e-07	0.999999	4.42250e-07	0.999999
rad9	4.07442e-07	0.999999	4.07504e-07	1.000000
rad36	1.51488e-07	0.999999	1.51511e-07	1.000000
rad22	1.43102e-07	0.999999	1.43124e-07	1.000000
rad38	1.35380e-07	1.000000	1.35401e-07	1.000000
rad35	1.33552e-07	1.000000	1.33572e-07	1.000000
rad37	1.21170e-07	1.000000	1.21188e-07	1.000000
rad46	7.58033e-09	1.000000	7.58148e-09	1.000000
rad19syn	2.30898e-09	1.000000	2.30933e-09	1.000000
rad60syn	1.74948e-09	1.000000	1.74974e-09	1.000000
rad33	1.26221e-09	1.000000	1.26241e-09	1.000000
rad60anti	8.26676e-10	1.000000	8.26801e-10	1.000000
rad14	7.31017e-10	1.000000	7.31127e-10	1.000000
PAH3+H	5.99639e-10	1.000000	5.99729e-10	1.000000
rad25	5.85636e-10	1.000000	5.85725e-10	1.000000
rad27	4.74990e-10	1.000000	4.75062e-10	1.000000
rad15	3.03698e-10	1.000000	3.03745e-10	1.000000
rad54	2.54832e-10	1.000000	2.54870e-10	1.000000
PAH10+CH3	1.16349e-10	1.000000	1.16367e-10	1.000000
rad59	1.12479e-10	1.000000	1.12496e-10	1.000000
rad50	3.99758e-11	1.000000	3.99818e-11	1.000000
PhcycC3H3_A+H	1.95663e-11	1.000000	1.95692e-11	1.000000
rad43	1.79646e-11	1.000000	1.79673e-11	1.000000
rad62	1.37803e-11	1.000000	1.37824e-11	1.000000
rad67	1.21116e-11	1.000000	1.21134e-11	1.000000
rad18	1.17516e-11	1.000000	1.17534e-11	1.000000
rad20	9.57858e-12	1.000000	9.57996e-12	1.000000
rad21	7.16118e-12	1.000000	7.16227e-12	1.000000
rad70	6.11321e-12	1.000000	6.11414e-12	1.000000
rad55	2.77265e-12	1.000000	2.77306e-12	1.000000
PAH1+H	1.98747e-12	1.000000	1.98777e-12	1.000000
rad5	1.94550e-12	1.000000	1.94579e-12	1.000000
rad31	1.44045e-12	1.000000	1.44067e-12	1.000000
rad52	3.31361e-13	1.000000	3.31412e-13	1.000000
rad34	1.64233e-13	1.000000	1.64258e-13	1.000000
rad51	1.31702e-13	1.000000	1.31722e-13	1.000000
rad24	6.09899e-14	1.000000	6.09991e-14	1.000000
rad58	1.50033e-14	1.000000	1.50055e-14	1.000000
rad42	7.23303e-15	1.000000	7.23414e-15	1.000000
rad12	6.90654e-15	1.000000	6.90759e-15	1.000000
rad65	3.32584e-15	1.000000	3.32634e-15	1.000000
rad41	2.54166e-15	1.000000	2.54204e-15	1.000000
rad53	9.97397e-16	1.000000	9.97553e-16	1.000000
rad64	3.52790e-16	1.000000	3.52843e-16	1.000000
rad56	1.89122e-17	1.000000	1.89150e-17	1.000000
rad68syn	2.14815e-18	1.000000	2.14848e-18	1.000000
rad61	1.69491e-18	1.000000	1.69517e-18	1.000000
rad68anti	1.54229e-18	1.000000	1.54252e-18	1.000000
rad73	2.54935e-19	1.000000	2.54973e-19	1.000000
rad71	6.14182e-20	1.000000	6.14275e-20	1.000000
PAH8+H	3.93919e-20	1.000000	3.93979e-20	1.000000
rad40syn	2.83680e-20	1.000000	2.83723e-20	1.000000
rad40anti	1.08848e-20	1.000000	1.08865e-20	1.000000
rad47	5.36028e-21	1.000000	5.36110e-21	1.000000
rad72	3.34103e-23	1.000000	3.34154e-23	1.000000
rad8	1.31986e-33	1.000000	1.32006e-33	1.000000

10.000000 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.11551e-14 (1.00)	2.11250e-14 (1.00)
Formation of rad11	1.10850e-14 (0.524)	1.10666e-14 (0.524)
Formation of rad6	7.08033e-15 (0.335)	7.06858e-15 (0.335)
H-abstraction	2.98976e-15 (0.141)	2.98976e-15 (0.142)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.627086	0.627086	0.627981	0.627981
Indene+H	0.181858	0.808944	0.182117	0.810099
Benzene+2-propynyl	0.141326	0.950270	0.141527	0.951626
C2H2+PhCH2	0.0278162	0.978086	0.0278559	0.979482
PhCCH+CH3	0.0108515	0.988938	0.0108670	0.990349
PhCHCCH2+H	0.00456935	0.993507	0.00457587	0.994925
PhCCCH3+H	0.00194350	0.995450	0.00194627	0.996871
Phenyl+Allene	0.00142480	0.996875	0.000000	0.996871
Ph+MeAc	0.00138660	0.998262	0.00138857	0.998259
rad28	0.000437025	0.998699	0.000437648	0.998697
rad2	0.000399975	0.999099	0.000400546	0.999098
PhCH2CCH+H	0.000237667	0.999337	0.000238006	0.999336
PAH7+H	0.000211772	0.999548	0.000212075	0.999548
rad7	0.000124017	0.999672	0.000124194	0.999672
rad23	8.71134e-05	0.999759	8.72380e-05	0.999759
rad39	5.17368e-05	0.999811	5.18107e-05	0.999811
rad1	4.77621e-05	0.999859	4.78302e-05	0.999859
rad26	4.05764e-05	0.999899	4.06343e-05	0.999899
rad11	3.96248e-05	0.999939	3.96814e-05	0.999939
rad10	2.54018e-05	0.999965	2.54381e-05	0.999965
rad45	8.77703e-06	0.999973	8.78947e-06	0.999973
rad3	8.10094e-06	0.999981	8.11250e-06	0.999982
rad4	4.56076e-06	0.999986	4.56727e-06	0.999986
rad19anti	3.67496e-06	0.999990	3.68020e-06	0.999990
rad30	3.50681e-06	0.999993	3.51181e-06	0.999993
PAH9+H	2.84173e-06	0.999996	2.84579e-06	0.999996
rad38	9.30760e-07	0.999997	9.32087e-07	0.999997
rad37	8.72550e-07	0.999998	8.73796e-07	0.999998
rad35	7.77274e-07	0.999999	7.78383e-07	0.999999
rad13	5.43767e-07	0.999999	5.44542e-07	0.999999
rad9	4.57713e-07	1.000000	4.58366e-07	1.000000
rad36	4.09750e-07	1.000000	4.10334e-07	1.000000
rad22	1.20987e-07	1.000000	1.21160e-07	1.000000
rad46	7.30862e-08	1.000000	7.31905e-08	1.000000
rad19syn	5.64004e-08	1.000000	5.64808e-08	1.000000
rad60syn	1.54002e-08	1.000000	1.54221e-08	1.000000
PAH3+H	9.95229e-09	1.000000	9.96644e-09	1.000000
rad54	8.24369e-09	1.000000	8.25545e-09	1.000000
rad60anti	7.67339e-09	1.000000	7.68433e-09	1.000000
PAH10+CH3	2.97900e-09	1.000000	2.98325e-09	1.000000
rad59	1.74333e-09	1.000000	1.74582e-09	1.000000
rad33	1.38674e-09	1.000000	1.38872e-09	1.000000
rad50	1.22751e-09	1.000000	1.22926e-09	1.000000
PhcycC3H3_A+H	1.13174e-09	1.000000	1.13336e-09	1.000000
rad14	7.02305e-10	1.000000	7.03308e-10	1.000000
rad25	5.27650e-10	1.000000	5.28404e-10	1.000000
rad27	4.45817e-10	1.000000	4.46453e-10	1.000000
rad62	3.85982e-10	1.000000	3.86532e-10	1.000000
rad43	3.81808e-10	1.000000	3.82353e-10	1.000000
rad15	3.46693e-10	1.000000	3.47188e-10	1.000000
rad67	3.15333e-10	1.000000	3.15783e-10	1.000000
rad70	3.04714e-10	1.000000	3.05149e-10	1.000000
PAH1+H	1.53034e-10	1.000000	1.53253e-10	1.000000
rad55	1.40858e-10	1.000000	1.41059e-10	1.000000
rad51	3.08314e-11	1.000000	3.08754e-11	1.000000
rad52	2.56629e-11	1.000000	2.56995e-11	1.000000
rad20	2.48469e-11	1.000000	2.48824e-11	1.000000
rad31	2.30752e-11	1.000000	2.31082e-11	1.000000
rad21	2.10582e-11	1.000000	2.10883e-11	1.000000
rad18	1.51474e-11	1.000000	1.51691e-11	1.000000
rad34	1.33671e-11	1.000000	1.33862e-11	1.000000
rad5	2.06291e-12	1.000000	2.06586e-12	1.000000
rad58	9.50003e-13	1.000000	9.51351e-13	1.000000
rad65	9.03111e-13	1.000000	9.04401e-13	1.000000
rad42	6.20338e-13	1.000000	6.21223e-13	1.000000
rad41	2.73556e-13	1.000000	2.73945e-13	1.000000
rad53	2.49343e-13	1.000000	2.49699e-13	1.000000
rad24	2.02006e-13	1.000000	2.02294e-13	1.000000
rad64	1.03491e-13	1.000000	1.03638e-13	1.000000
rad73	4.36078e-14	1.000000	4.36700e-14	1.000000
rad71	3.43476e-14	1.000000	3.43966e-14	1.000000
rad56	2.16079e-14	1.000000	2.16387e-14	1.000000
rad12	2.00830e-14	1.000000	2.01117e-14	1.000000
rad61	3.23436e-15	1.000000	3.23897e-15	1.000000
rad68syn	2.32917e-15	1.000000	2.33250e-15	1.000000
rad68anti	1.60712e-15	1.000000	1.60941e-15	1.000000
PAH8+H	1.28553e-15	1.000000	1.28736e-15	1.000000

rad72	3.86720e-16	1.00000	3.87272e-16	1.00000
rad40syn	2.95663e-16	1.00000	2.96085e-16	1.00000
rad40anti	1.80763e-16	1.00000	1.81021e-16	1.00000
rad47	5.92492e-19	1.00000	5.93338e-19	1.00000
rad8	8.01821e-30	1.00000	8.02965e-30	1.00000

10.000000 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.08120e-14 (1.00)	6.04080e-14 (1.00)
Formation of rad11	2.83304e-14 (0.466)	2.81003e-14 (0.465)
Formation of rad6	2.13840e-14 (0.352)	2.12103e-14 (0.351)
H-abstraction	1.10975e-14 (0.182)	1.10975e-14 (0.184)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.386668	0.386668	0.389253	0.389253
Indene+H	0.304032	0.690699	0.306064	0.695318
Benzene+2-propynyl	0.182488	0.873188	0.183709	0.879026
C2H2+PhCH2	0.0685685	0.941756	0.0690270	0.948053
PhCCH+CH3	0.0278765	0.969633	0.0280629	0.976116
PhCHCCH2+H	0.0123964	0.982029	0.0124793	0.988596
Phenyl+Allene	0.00664250	0.988671	0.000000	0.988596
PhCCCH3+H	0.00412906	0.992801	0.00415667	0.992752
Ph+MeAc	0.00377854	0.996579	0.00380381	0.996556
PhCH2CCH+H	0.00129672	0.997876	0.00130540	0.997861
PAH7+H	0.000830101	0.998706	0.000835654	0.998697
rad28	0.000372051	0.999078	0.000374539	0.999072
rad2	0.000307509	0.999385	0.000309565	0.999381
rad39	0.000203214	0.999589	0.000204572	0.999586
rad23	0.000136984	0.999726	0.000137900	0.999724
rad7	7.89207e-05	0.999805	7.94484e-05	0.999803
rad1	4.54186e-05	0.999850	4.57223e-05	0.999849
rad26	2.67028e-05	0.999877	2.68814e-05	0.999876
rad11	2.60956e-05	0.999903	2.62701e-05	0.999902
rad45	2.14765e-05	0.999924	2.16201e-05	0.999924
rad19anti	1.55783e-05	0.999940	1.56825e-05	0.999939
rad10	1.23588e-05	0.999952	1.24415e-05	0.999952
PAH9+H	1.15964e-05	0.999964	1.16739e-05	0.999963
rad30	1.00677e-05	0.999974	1.01350e-05	0.999974
rad3	7.64075e-06	0.999982	7.69184e-06	0.999981
rad4	4.65972e-06	0.999986	4.69088e-06	0.999986
rad38	4.04388e-06	0.999990	4.07092e-06	0.999990
rad35	2.89278e-06	0.999993	2.91213e-06	0.999993
rad37	2.77267e-06	0.999996	2.79121e-06	0.999996
rad36	1.33178e-06	0.999997	1.34068e-06	0.999997
rad9	6.45161e-07	0.999998	6.49475e-07	0.999998
rad19syn	5.15973e-07	0.999998	5.19423e-07	0.999998
rad46	4.48421e-07	0.999999	4.51419e-07	0.999999
rad13	4.42332e-07	0.999999	4.45289e-07	0.999999
rad22	1.33272e-07	0.999999	1.34163e-07	0.999999
rad54	9.34138e-08	0.999999	9.40384e-08	0.999999
PAH3+H	7.19654e-08	1.000000	7.24466e-08	0.999999
rad60syn	6.95371e-08	1.000000	7.00021e-08	1.000000
rad50	5.43214e-08	1.000000	5.46847e-08	1.000000
rad60anti	3.59193e-08	1.000000	3.61596e-08	1.000000
PAH10+CH3	3.23499e-08	1.000000	3.25663e-08	1.000000
PhcycC3H3_A+H	1.99544e-08	1.000000	2.00878e-08	1.000000
rad59	1.17776e-08	1.000000	1.18563e-08	1.000000
rad51	9.92001e-09	1.000000	9.98635e-09	1.000000
rad70	4.71771e-09	1.000000	4.74927e-09	1.000000
rad67	3.72048e-09	1.000000	3.74536e-09	1.000000
rad62	3.71655e-09	1.000000	3.74140e-09	1.000000
PAH1+H	3.52732e-09	1.000000	3.55090e-09	1.000000
rad52	3.52094e-09	1.000000	3.54448e-09	1.000000
rad43	3.23890e-09	1.000000	3.26055e-09	1.000000
rad55	2.19657e-09	1.000000	2.21126e-09	1.000000
rad33	1.56822e-09	1.000000	1.57871e-09	1.000000
rad14	5.19247e-10	1.000000	5.22719e-10	1.000000
rad15	4.66610e-10	1.000000	4.69730e-10	1.000000
rad25	4.57166e-10	1.000000	4.60223e-10	1.000000
rad34	3.00113e-10	1.000000	3.02120e-10	1.000000
rad27	2.88743e-10	1.000000	2.90673e-10	1.000000
rad65	2.72017e-10	1.000000	2.73836e-10	1.000000
rad71	1.93733e-10	1.000000	1.95028e-10	1.000000
rad73	1.52650e-10	1.000000	1.53670e-10	1.000000
rad21	1.00470e-10	1.000000	1.01142e-10	1.000000
rad20	9.65727e-11	1.000000	9.72187e-11	1.000000
rad31	8.99909e-11	1.000000	9.05928e-11	1.000000

rad58	2.83601e-11	1.000000	2.85497e-11	1.000000
rad18	2.50575e-11	1.000000	2.52250e-11	1.000000
rad41	1.50640e-11	1.000000	1.51647e-11	1.000000
rad42	1.49609e-11	1.000000	1.50609e-11	1.000000
rad53	1.28619e-11	1.000000	1.29479e-11	1.000000
rad64	9.80123e-12	1.000000	9.86676e-12	1.000000
rad72	5.49797e-12	1.000000	5.53473e-12	1.000000
rad56	3.30282e-12	1.000000	3.32490e-12	1.000000
PAH8+H	2.93190e-12	1.000000	2.95151e-12	1.000000
rad61	2.28878e-12	1.000000	2.30409e-12	1.000000
rad24	1.47050e-12	1.000000	1.48034e-12	1.000000
rad5	1.35196e-12	1.000000	1.36100e-12	1.000000
rad68syn	9.10119e-13	1.000000	9.16206e-13	1.000000
rad68anti	5.98538e-13	1.000000	6.02540e-13	1.000000
rad40syn	4.54577e-13	1.000000	4.57616e-13	1.000000
rad40anti	3.30151e-13	1.000000	3.32359e-13	1.000000
rad12	1.65173e-13	1.000000	1.66277e-13	1.000000
rad47	9.67133e-17	1.000000	9.73607e-17	1.000000
rad8	1.60181e-25	1.000000	1.61252e-25	1.000000

10.0000000 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.39564e-13 (1.00)	1.36927e-13 (1.00)
Formation of rad11	5.88273e-14 (0.422)	5.74041e-14 (0.419)
Formation of rad6	5.01684e-14 (0.359)	4.89547e-14 (0.358)
H-abstraction	3.05678e-14 (0.219)	3.05678e-14 (0.223)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.376439	0.376439	0.383688	0.383688
Benzene+2-propynyl	0.219024	0.595463	0.223242	0.606930
rad6	0.183163	0.778626	0.186691	0.793621
C2H2+PhCH2	0.114544	0.893170	0.116750	0.910371
PhCCH+CH3	0.0458522	0.939023	0.0467352	0.957106
PhCHCCH2+H	0.0229091	0.961932	0.0233503	0.980456
Phenyl+Allene	0.0188942	0.980826	0.000000	0.980456
Ph+MeAc	0.00632543	0.987151	0.00644724	0.986903
PhCCCH3+H	0.00550021	0.992651	0.00560613	0.992510
PhCH2CCH+H	0.00420817	0.996860	0.00428921	0.996799
PAH7+H	0.00194076	0.998800	0.00197814	0.998777
rad39	0.000470757	0.999271	0.000479823	0.999257
rad28	0.000203799	0.999475	0.000207723	0.999464
rad2	0.000157787	0.999633	0.000160825	0.999625
rad23	0.000111157	0.999744	0.000113298	0.999739
rad19anti	4.26008e-05	0.999786	4.34212e-05	0.999782
rad7	4.07358e-05	0.999827	4.15203e-05	0.999823
PAH9+H	3.34586e-05	0.999861	3.41029e-05	0.999858
rad1	2.67502e-05	0.999887	2.72654e-05	0.999885
rad45	2.03848e-05	0.999908	2.07774e-05	0.999906
rad30	1.91509e-05	0.999927	1.95198e-05	0.999925
rad11	1.45191e-05	0.999941	1.47987e-05	0.999940
rad38	1.25790e-05	0.999954	1.28212e-05	0.999953
rad26	1.17935e-05	0.999966	1.20206e-05	0.999965
rad35	7.47455e-06	0.999973	7.61849e-06	0.999972
rad37	5.19304e-06	0.999979	5.29305e-06	0.999978
rad10	4.42652e-06	0.999983	4.51177e-06	0.999982
rad3	4.06095e-06	0.999987	4.13916e-06	0.999986
rad4	2.66719e-06	0.999990	2.71856e-06	0.999989
rad19syn	2.52386e-06	0.999992	2.57247e-06	0.999992
rad46	2.05311e-06	0.999994	2.09265e-06	0.999994
rad36	1.53420e-06	0.999996	1.56375e-06	0.999995
rad9	1.21260e-06	0.999997	1.23595e-06	0.999997
rad50	8.06037e-07	0.999998	8.21561e-07	0.999997
rad54	5.40983e-07	0.999998	5.51402e-07	0.999998
rad13	3.40576e-07	0.999999	3.47135e-07	0.999998
PAH3+H	3.07562e-07	0.999999	3.13485e-07	0.999999
rad51	2.13459e-07	0.999999	2.17571e-07	0.999999
PAH10+CH3	2.01144e-07	0.999999	2.05018e-07	0.999999
rad60syn	1.93267e-07	1.000000	1.96990e-07	0.999999
PhcycC3H3_A+H	1.62715e-07	1.000000	1.65849e-07	0.999999
rad60anti	1.02901e-07	1.000000	1.04882e-07	0.999999
rad22	9.99274e-08	1.000000	1.01852e-07	1.000000
rad52	6.54129e-08	1.000000	6.66726e-08	1.000000
rad59	4.64064e-08	1.000000	4.73000e-08	1.000000
PAH1+H	3.78651e-08	1.000000	3.85943e-08	1.000000
rad70	3.47989e-08	1.000000	3.54690e-08	1.000000
rad67	2.66373e-08	1.000000	2.71502e-08	1.000000
rad62	1.83795e-08	1.000000	1.87335e-08	1.000000

rad55	1.60865e-08	1.00000	1.63963e-08	1.000000
rad43	1.59328e-08	1.00000	1.62397e-08	1.000000
rad71	6.67227e-09	1.00000	6.80076e-09	1.000000
rad65	5.67330e-09	1.00000	5.78256e-09	1.000000
rad73	4.88217e-09	1.00000	4.97619e-09	1.000000
rad34	2.96936e-09	1.00000	3.02654e-09	1.000000
rad33	2.24045e-09	1.00000	2.28359e-09	1.000000
rad21	7.90941e-10	1.00000	8.06174e-10	1.000000
rad15	6.07673e-10	1.00000	6.19375e-10	1.000000
rad20	5.80723e-10	1.00000	5.91907e-10	1.000000
rad25	4.03715e-10	1.00000	4.11491e-10	1.000000
rad58	3.95786e-10	1.00000	4.03408e-10	1.000000
rad41	3.34793e-10	1.00000	3.41241e-10	1.000000
rad14	3.16893e-10	1.00000	3.22996e-10	1.000000
rad72	2.15157e-10	1.00000	2.19300e-10	1.000000
rad64	2.14007e-10	1.00000	2.18128e-10	1.000000
rad53	1.94816e-10	1.00000	1.98568e-10	1.000000
rad42	1.73291e-10	1.00000	1.76628e-10	1.000000
rad27	1.68317e-10	1.00000	1.71559e-10	1.000000
PAH8+H	1.67187e-10	1.00000	1.70407e-10	1.000000
rad31	9.97119e-11	1.00000	1.01633e-10	1.000000
rad61	9.20661e-11	1.00000	9.38385e-11	1.000000
rad18	6.38525e-11	1.00000	6.50822e-11	1.000000
rad56	5.57346e-11	1.00000	5.68079e-11	1.000000
rad24	2.88624e-11	1.00000	2.94181e-11	1.000000
rad40syn	2.87643e-11	1.00000	2.93183e-11	1.000000
rad68syn	2.64370e-11	1.00000	2.69461e-11	1.000000
rad40anti	2.46656e-11	1.00000	2.51405e-11	1.000000
rad68anti	1.72996e-11	1.00000	1.76328e-11	1.000000
rad12	5.18053e-12	1.00000	5.28030e-12	1.000000
rad5	6.93980e-13	1.00000	7.07344e-13	1.000000
rad47	9.25425e-15	1.00000	9.43248e-15	1.000000
rad8	3.98481e-21	1.00000	4.06155e-21	1.000000

10.000000 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.75392e-13 (1.00)	2.64579e-13 (1.00)
Formation of rad11	1.06471e-13 (0.387)	1.00887e-13 (0.381)
Formation of rad6	9.97133e-14 (0.362)	9.44839e-14 (0.357)
H-abstraction	6.92082e-14 (0.251)	6.92082e-14 (0.262)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.372370	0.372370	0.387589	0.387589
Benzene+2-propynyl	0.251308	0.623678	0.261578	0.649168
C2H2+PhCH2	0.146513	0.770191	0.152501	0.801669
rad6	0.0716942	0.841885	0.0746241	0.876293
PhCCH+CH3	0.0573381	0.899223	0.0596814	0.935974
Phenyl+Allene	0.0392645	0.938488	0.000000	0.935974
PhCHCCH2+H	0.0338246	0.972313	0.0352071	0.971181
PhCH2CCH+H	0.00976864	0.982081	0.0101678	0.981349
Ph+MeAc	0.00784794	0.989929	0.00816871	0.989518
PhCCH3+H	0.00544900	0.995378	0.00567171	0.995190
PAH7+H	0.00332663	0.998705	0.00346258	0.998652
rad39	0.000791877	0.999497	0.000824241	0.999477
rad19anti	8.80792e-05	0.999585	9.16787e-05	0.999568
rad28	8.60262e-05	0.999671	8.95425e-05	0.999658
PAH9+H	6.60099e-05	0.999737	6.87076e-05	0.999726
rad23	5.37376e-05	0.999791	5.59338e-05	0.999782
rad2	5.24492e-05	0.999843	5.45928e-05	0.999837
rad30	2.76671e-05	0.999871	2.87978e-05	0.999866
rad38	2.57287e-05	0.999896	2.67803e-05	0.999893
rad7	1.92413e-05	0.999916	2.00277e-05	0.999913
rad35	1.38334e-05	0.999929	1.43987e-05	0.999927
rad45	1.22460e-05	0.999942	1.27465e-05	0.999940
rad1	9.16295e-06	0.999951	9.53738e-06	0.999949
rad19syn	8.24617e-06	0.999959	8.58319e-06	0.999958
rad11	7.88927e-06	0.999967	8.21169e-06	0.999966
rad37	7.06790e-06	0.999974	7.35676e-06	0.999973
rad46	4.87020e-06	0.999979	5.06924e-06	0.999979
rad26	4.22910e-06	0.999983	4.40194e-06	0.999983
rad9	2.64919e-06	0.999986	2.75746e-06	0.999986
rad50	2.33689e-06	0.999988	2.43240e-06	0.999988
rad54	2.02143e-06	0.999990	2.10404e-06	0.999990
rad3	1.46155e-06	0.999992	1.52128e-06	0.999992
rad10	1.31377e-06	0.999993	1.36746e-06	0.999993
rad36	1.01191e-06	0.999994	1.05327e-06	0.999994
rad4	9.97939e-07	0.999995	1.03873e-06	0.999995

PAH3+H	8.54131e-07	0.999996	8.89037e-07	0.999996
PhcycC3H3_A+H	7.96107e-07	0.999997	8.28642e-07	0.999997
rad51	6.58134e-07	0.999997	6.85031e-07	0.999998
PAH10+CH3	5.34758e-07	0.999998	5.56613e-07	0.999998
rad60syn	3.89125e-07	0.999998	4.05029e-07	0.999999
rad13	3.02288e-07	0.999999	3.14642e-07	0.999999
rad60anti	2.12428e-07	0.999999	2.21110e-07	0.999999
rad52	1.95522e-07	0.999999	2.03513e-07	0.999999
PAH1+H	1.79788e-07	0.999999	1.87136e-07	0.999999
rad70	1.52399e-07	0.999999	1.58628e-07	1.000000
rad59	1.22122e-07	0.999999	1.27113e-07	1.000000
rad67	1.08895e-07	0.999999	1.13345e-07	1.000000
rad55	7.17598e-08	1.000000	7.46928e-08	1.000000
rad22	5.83430e-08	1.000000	6.07275e-08	1.000000
rad62	5.64504e-08	1.000000	5.87575e-08	1.000000
rad43	3.80773e-08	1.000000	3.96335e-08	1.000000
rad71	2.34666e-08	1.000000	2.44257e-08	1.000000
rad65	1.73311e-08	1.000000	1.80394e-08	1.000000
rad73	1.67965e-08	1.000000	1.74829e-08	1.000000
rad34	1.54598e-08	1.000000	1.60917e-08	1.000000
rad21	7.63120e-09	1.000000	7.94313e-09	1.000000
rad33	5.39134e-09	1.000000	5.61168e-09	1.000000
rad20	4.51004e-09	1.000000	4.69436e-09	1.000000
rad58	1.45360e-09	1.000000	1.51301e-09	1.000000
rad53	1.45311e-09	1.000000	1.51250e-09	1.000000
rad41	1.26340e-09	1.000000	1.31503e-09	1.000000
rad64	1.04139e-09	1.000000	1.08395e-09	1.000000
PAH8+H	8.13604e-10	1.000000	8.46859e-10	1.000000
rad15	8.12369e-10	1.000000	8.45567e-10	1.000000
rad72	7.86074e-10	1.000000	8.18201e-10	1.000000
rad42	7.80699e-10	1.000000	8.12603e-10	1.000000
rad25	4.69929e-10	1.000000	4.89135e-10	1.000000
rad24	4.68070e-10	1.000000	4.87199e-10	1.000000
rad56	4.13633e-10	1.000000	4.30537e-10	1.000000
rad61	3.69520e-10	1.000000	3.84622e-10	1.000000
rad18	2.69974e-10	1.000000	2.81008e-10	1.000000
rad14	2.19305e-10	1.000000	2.28268e-10	1.000000
rad40syn	1.44490e-10	1.000000	1.50396e-10	1.000000
rad40anti	1.28185e-10	1.000000	1.33424e-10	1.000000
rad27	1.22118e-10	1.000000	1.27110e-10	1.000000
rad68syn	1.18457e-10	1.000000	1.23299e-10	1.000000
rad12	1.12403e-10	1.000000	1.16997e-10	1.000000
rad68anti	7.81126e-11	1.000000	8.13054e-11	1.000000
rad31	6.53814e-11	1.000000	6.80534e-11	1.000000
rad5	3.53976e-13	1.000000	3.68443e-13	1.000000
rad47	6.08818e-14	1.000000	6.33700e-14	1.000000
rad8	2.34213e-17	1.000000	2.43785e-17	1.000000

10.000000 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.88072e-13 (1.00)	4.55485e-13 (1.00)
Formation of rad11	1.74945e-13 (0.358)	1.58724e-13 (0.348)
Formation of rad6	1.76509e-13 (0.362)	1.60143e-13 (0.352)
H-abstraction	1.36618e-13 (0.280)	1.36618e-13 (0.300)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.326411	0.326411	0.349763	0.349763
Benzene+2-propynyl	0.279914	0.606324	0.299940	0.649703
C2H2+PhCH2	0.159923	0.766248	0.171364	0.821067
Phenyl+Allene	0.0667668	0.833015	0.000000	0.821067
PhCCH+CH3	0.0617455	0.894760	0.0661630	0.887230
PhCHCCH2+H	0.0442484	0.939008	0.0474142	0.934645
rad6	0.0235722	0.962581	0.0252587	0.959903
PhCH2CCH+H	0.0181683	0.980749	0.0194681	0.979371
Ph+MeAc	0.00831210	0.989061	0.00890680	0.988278
PAH7+H	0.00473959	0.993801	0.00507867	0.993357
PhCCCH3+H	0.00460793	0.998409	0.00493759	0.998294
rad39	0.00109840	0.999507	0.00117698	0.999471
rad19anti	0.000152118	0.999659	0.000163001	0.999634
PAH9+H	9.77236e-05	0.999757	0.000104715	0.999739
rad38	3.81704e-05	0.999795	4.09012e-05	0.999780
rad30	3.38527e-05	0.999829	3.62746e-05	0.999816
rad28	2.97329e-05	0.999859	3.18601e-05	0.999848
rad23	2.36843e-05	0.999882	2.53788e-05	0.999873
rad19syn	2.05185e-05	0.999903	2.19864e-05	0.999895
rad35	2.01112e-05	0.999923	2.15500e-05	0.999917
rad2	1.43174e-05	0.999937	1.53418e-05	0.999932

rad7	8.84820e-06	0.999946	9.48120e-06	0.999942
rad37	8.29179e-06	0.999954	8.88503e-06	0.999951
rad46	7.20346e-06	0.999962	7.71879e-06	0.999958
rad45	6.53964e-06	0.999968	7.00753e-06	0.999965
rad54	5.60233e-06	0.999974	6.00314e-06	0.999971
rad11	4.51956e-06	0.999978	4.84290e-06	0.999976
rad9	3.51579e-06	0.999982	3.76733e-06	0.999980
PhcycC3H3_A+H	2.75600e-06	0.999984	2.95318e-06	0.999983
rad50	2.72268e-06	0.999987	2.91747e-06	0.999986
rad1	2.68895e-06	0.999990	2.88132e-06	0.999989
PAH3+H	1.76423e-06	0.999992	1.89045e-06	0.999991
rad26	1.37650e-06	0.999993	1.47498e-06	0.999992
PAH10+CH3	8.61720e-07	0.999994	9.23366e-07	0.999993
rad51	7.12977e-07	0.999995	7.63983e-07	0.999994
rad60syn	6.33872e-07	0.999995	6.79221e-07	0.999995
rad36	5.79110e-07	0.999996	6.20542e-07	0.999995
PAH1+H	5.61998e-07	0.999996	6.02205e-07	0.999996
rad3	4.80615e-07	0.999997	5.14999e-07	0.999996
rad70	4.70970e-07	0.999997	5.04665e-07	0.999997
rad10	4.23328e-07	0.999998	4.53614e-07	0.999997
rad13	3.53456e-07	0.999998	3.78743e-07	0.999998
rad60anti	3.53106e-07	0.999998	3.78368e-07	0.999998
rad4	3.46547e-07	0.999999	3.71341e-07	0.999998
rad67	3.23951e-07	0.999999	3.47128e-07	0.999999
rad59	2.43720e-07	0.999999	2.61157e-07	0.999999
rad55	2.28528e-07	1.000000	2.44878e-07	0.999999
rad52	2.16245e-07	1.000000	2.31716e-07	0.999999
rad62	1.26476e-07	1.000000	1.35525e-07	1.000000
rad34	5.47004e-08	1.000000	5.86138e-08	1.000000
rad43	5.16061e-08	1.000000	5.52981e-08	1.000000
rad22	4.95918e-08	1.000000	5.31398e-08	1.000000
rad21	4.32316e-08	1.000000	4.63246e-08	1.000000
rad71	2.61395e-08	1.000000	2.80096e-08	1.000000
rad20	2.37213e-08	1.000000	2.54184e-08	1.000000
rad65	1.88155e-08	1.000000	2.01616e-08	1.000000
rad73	1.85280e-08	1.000000	1.98535e-08	1.000000
rad33	1.55387e-08	1.000000	1.66504e-08	1.000000
rad53	7.23471e-09	1.000000	7.75233e-09	1.000000
rad64	3.30501e-09	1.000000	3.54146e-09	1.000000
rad58	3.02055e-09	1.000000	3.23664e-09	1.000000
rad56	2.40806e-09	1.000000	2.58035e-09	1.000000
rad42	1.99022e-09	1.000000	2.13260e-09	1.000000
rad24	1.77626e-09	1.000000	1.90334e-09	1.000000
rad41	1.59366e-09	1.000000	1.70767e-09	1.000000
PAH8+H	1.14326e-09	1.000000	1.22505e-09	1.000000
rad18	9.87109e-10	1.000000	1.05773e-09	1.000000
rad72	8.91344e-10	1.000000	9.55120e-10	1.000000
rad15	8.86577e-10	1.000000	9.50003e-10	1.000000
rad25	8.19206e-10	1.000000	8.77820e-10	1.000000
rad12	5.28817e-10	1.000000	5.66651e-10	1.000000
rad61	4.57901e-10	1.000000	4.90662e-10	1.000000
rad68syn	3.51446e-10	1.000000	3.76590e-10	1.000000
rad68anti	2.34883e-10	1.000000	2.51687e-10	1.000000
rad14	2.27909e-10	1.000000	2.44214e-10	1.000000
rad40syn	2.12343e-10	1.000000	2.27535e-10	1.000000
rad40anti	1.79464e-10	1.000000	1.92303e-10	1.000000
rad27	1.58732e-10	1.000000	1.70088e-10	1.000000
rad31	3.82776e-11	1.000000	4.10162e-11	1.000000
rad5	1.83855e-13	1.000000	1.97009e-13	1.000000
rad47	7.89546e-14	1.000000	8.46030e-14	1.000000
rad8	1.01768e-14	1.000000	1.09049e-14	1.000000

10.000000 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.98668e-13 (1.00)	7.19822e-13 (1.00)
Formation of rad11	2.67704e-13 (0.335)	2.29656e-13 (0.319)
Formation of rad6	2.87049e-13 (0.359)	2.46251e-13 (0.342)
H-abstraction	2.43915e-13 (0.305)	2.43915e-13 (0.339)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.305402	0.305402	0.338854	0.338854
Indene+H	0.268132	0.573534	0.297502	0.636357
C2H2+PhCH2	0.157798	0.731332	0.175083	0.811439
Phenyl+Allene	0.0987218	0.830054	0.000000	0.811439
PhCCH+CH3	0.0608717	0.890926	0.0675393	0.878979
PhCHCCH2+H	0.0534477	0.944373	0.0593021	0.938281
PhCH2CCH+H	0.0288422	0.973216	0.0320015	0.970282

Ph+MeAc	0.00811839	0.981334	0.00900771	0.979290
rad6	0.00715874	0.988493	0.00794287	0.987233
PAH7+H	0.00597783	0.994471	0.00663261	0.993865
PhCCCH3+H	0.00357328	0.998044	0.00396468	0.997830
rad39	0.00134089	0.999385	0.00148776	0.999318
rad19anti	0.000230532	0.999615	0.000255783	0.999574
PAH9+H	0.000131513	0.999747	0.000145918	0.999720
rad38	5.16400e-05	0.999798	5.72965e-05	0.999777
rad19syn	4.20268e-05	0.999841	4.66302e-05	0.999823
rad30	3.72165e-05	0.999878	4.12930e-05	0.999865
rad35	2.65462e-05	0.999904	2.94540e-05	0.999894
rad54	1.25311e-05	0.999917	1.39037e-05	0.999908
rad23	1.12062e-05	0.999928	1.24336e-05	0.999921
rad46	9.89122e-06	0.999938	1.09746e-05	0.999932
rad28	9.53968e-06	0.999947	1.05846e-05	0.999942
rad37	9.29546e-06	0.999957	1.03136e-05	0.999952
PhcycC3H3_A+H	7.44873e-06	0.999964	8.26465e-06	0.999961
rad7	4.57442e-06	0.999969	5.07548e-06	0.999966
rad2	4.03914e-06	0.999973	4.48157e-06	0.999970
rad45	3.51532e-06	0.999976	3.90037e-06	0.999974
rad11	3.18467e-06	0.999979	3.53350e-06	0.999978
PAH3+H	3.10457e-06	0.999983	3.44463e-06	0.999981
rad50	2.71738e-06	0.999985	3.01503e-06	0.999984
rad9	2.71213e-06	0.999988	3.00920e-06	0.999987
PAH1+H	1.45254e-06	0.999989	1.61164e-06	0.999989
PAH10+CH3	1.36984e-06	0.999991	1.51988e-06	0.999990
rad70	1.14376e-06	0.999992	1.26904e-06	0.999992
rad60syn	8.97567e-07	0.999993	9.95884e-07	0.999993
rad1	8.40387e-07	0.999994	9.32440e-07	0.999994
rad67	8.01295e-07	0.999995	8.89063e-07	0.999994
rad55	5.72075e-07	0.999995	6.34738e-07	0.999995
rad51	5.55305e-07	0.999996	6.16131e-07	0.999996
rad13	5.53890e-07	0.999996	6.14561e-07	0.999996
rad60anti	5.08856e-07	0.999997	5.64594e-07	0.999997
rad26	4.57266e-07	0.999997	5.07353e-07	0.999997
rad59	4.12638e-07	0.999998	4.57836e-07	0.999998
rad36	3.20427e-07	0.999998	3.55526e-07	0.999998
rad62	2.37942e-07	0.999998	2.64006e-07	0.999998
rad10	2.09970e-07	0.999998	2.32969e-07	0.999999
rad52	1.86811e-07	0.999999	2.07274e-07	0.999999
rad3	1.70051e-07	0.999999	1.88677e-07	0.999999
rad34	1.50628e-07	0.999999	1.67128e-07	0.999999
rad4	1.27766e-07	0.999999	1.41761e-07	0.999999
rad21	1.03290e-07	0.999999	1.14604e-07	0.999999
rad43	5.86521e-08	0.999999	6.50766e-08	1.000000
rad20	5.71609e-08	0.999999	6.34221e-08	1.000000
rad22	5.15276e-08	0.999999	5.71717e-08	1.000000
rad33	2.93420e-08	0.999999	3.25559e-08	1.000000
rad53	2.67448e-08	0.999999	2.96743e-08	1.000000
rad71	1.81284e-08	0.999999	2.01141e-08	1.000000
rad65	1.50203e-08	0.999999	1.66656e-08	1.000000
rad73	1.28383e-08	0.999999	1.42446e-08	1.000000
rad56	1.09578e-08	0.999999	1.21580e-08	1.000000
rad64	1.00392e-08	0.999999	1.11388e-08	1.000000
rad58	6.20827e-09	0.999999	6.88828e-09	1.000000
rad42	4.63154e-09	0.999999	5.13886e-09	1.000000
rad24	2.44634e-09	0.999999	2.71431e-09	1.000000
rad18	2.15318e-09	0.999999	2.38903e-09	1.000000
rad25	1.75299e-09	0.999999	1.94501e-09	1.000000
PAH8+H	1.35812e-09	0.999999	1.50688e-09	1.000000
rad41	1.30013e-09	0.999999	1.44255e-09	1.000000
rad68syn	1.25497e-09	0.999999	1.39243e-09	1.000000
rad12	9.23802e-10	0.999999	1.02499e-09	1.000000
rad68anti	8.40179e-10	0.999999	9.32202e-10	1.000000
rad15	8.04477e-10	0.999999	8.92593e-10	1.000000
rad72	6.21506e-10	0.999999	6.89582e-10	1.000000
rad61	3.94331e-10	0.999999	4.37524e-10	1.000000
rad14	2.95949e-10	0.999999	3.28367e-10	1.000000
rad40syn	2.80092e-10	0.999999	3.10772e-10	1.000000
rad27	2.19864e-10	0.999999	2.43947e-10	1.000000
rad40anti	1.79401e-10	0.999999	1.99052e-10	1.000000
rad31	2.26145e-11	0.999999	2.50916e-11	1.000000
rad8	3.70447e-13	0.999999	4.11024e-13	1.000000
rad5	1.13974e-13	0.999999	1.26458e-13	1.000000
rad47	5.96563e-14	0.999999	6.61906e-14	1.000000

10.000000 Pa, 1100.00000 K

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Rate constant | True (fraction) | Effective (fraction)

Total	1.22919e-12	(1.00)	1.06699e-12	(1.00)
Formation of rad11	3.87976e-13	(0.316)	3.11762e-13	(0.292)
Formation of rad6	4.37724e-13	(0.356)	3.51738e-13	(0.330)
H-abstraction	4.03491e-13	(0.328)	4.03491e-13	(0.378)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.328257	0.328257	0.378158	0.378158
Indene+H	0.213615	0.541872	0.246088	0.624246
C2H2+PhCH2	0.145911	0.687783	0.168092	0.792338
Phenyl+Allene	0.131957	0.819741	0.000000	0.792338
PhCHCCH2+H	0.0608534	0.880594	0.0701040	0.862442
PhCCH+CH3	0.0569870	0.937581	0.0656497	0.928092
PhCH2CCH+H	0.0407312	0.978312	0.0469230	0.975015
Ph+MeAc	0.00761474	0.985927	0.00877233	0.983787
PAH7+H	0.00693487	0.992862	0.00798905	0.991776
PhCCCH3+H	0.00265789	0.995520	0.00306193	0.994838
rad6	0.00217339	0.997693	0.00250379	0.997342
rad39	0.00149930	0.999192	0.00172721	0.999069
rad19anti	0.000315888	0.999508	0.000363909	0.999433
PAH9+H	0.000168865	0.999677	0.000194535	0.999628
rad19syn	7.45984e-05	0.999752	8.59386e-05	0.999714
rad38	6.72435e-05	0.999819	7.74654e-05	0.999791
rad30	3.81389e-05	0.999857	4.39367e-05	0.999835
rad35	3.31969e-05	0.999890	3.82434e-05	0.999873
rad54	2.39220e-05	0.999914	2.75586e-05	0.999901
PhcycC3H3_A+H	1.67435e-05	0.999931	1.92889e-05	0.999920
rad46	1.36413e-05	0.999945	1.57150e-05	0.999936
rad37	1.03837e-05	0.999955	1.19623e-05	0.999948
rad23	5.54068e-06	0.999961	6.38296e-06	0.999954
PAH3+H	4.86998e-06	0.999965	5.61030e-06	0.999960
rad50	3.38688e-06	0.999969	3.90174e-06	0.999964
PAH1+H	3.18368e-06	0.999972	3.66766e-06	0.999967
rad28	3.13429e-06	0.999975	3.61076e-06	0.999971
rad11	2.96503e-06	0.999978	3.41576e-06	0.999975
rad7	2.91514e-06	0.999981	3.35829e-06	0.999978
PAH10+CH3	2.32839e-06	0.999983	2.68234e-06	0.999981
rad70	2.31528e-06	0.999986	2.66724e-06	0.999983
rad45	1.89044e-06	0.999988	2.17782e-06	0.999985
rad9	1.79739e-06	0.999989	2.07062e-06	0.999987
rad67	1.65599e-06	0.999991	1.90773e-06	0.999989
rad2	1.23157e-06	0.999992	1.41878e-06	0.999991
rad55	1.19872e-06	0.999993	1.38094e-06	0.999992
rad60syn	1.15219e-06	0.999995	1.32734e-06	0.999994
rad13	7.89842e-07	0.999995	9.09910e-07	0.999994
rad60anti	6.63393e-07	0.999996	7.64238e-07	0.999995
rad59	6.21110e-07	0.999997	7.15529e-07	0.999996
rad51	5.07577e-07	0.999997	5.84737e-07	0.999996
rad62	3.94134e-07	0.999998	4.54049e-07	0.999997
rad34	3.40710e-07	0.999998	3.92504e-07	0.999997
rad1	2.72984e-07	0.999998	3.14482e-07	0.999998
rad52	2.02197e-07	0.999998	2.32934e-07	0.999998
rad36	1.74759e-07	0.999999	2.01325e-07	0.999998
rad26	1.65274e-07	0.999999	1.90399e-07	0.999998
rad10	1.51520e-07	0.999999	1.74553e-07	0.999998
rad21	1.17968e-07	0.999999	1.35901e-07	0.999999
rad53	7.81458e-08	0.999999	9.00253e-08	0.999999
rad43	6.79427e-08	0.999999	7.82713e-08	0.999999
rad20	6.46381e-08	0.999999	7.44643e-08	0.999999
rad3	6.40552e-08	0.999999	7.37928e-08	0.999999
rad4	4.92340e-08	0.999999	5.67184e-08	0.999999
rad22	4.11008e-08	0.999999	4.73489e-08	0.999999
rad56	3.84954e-08	0.999999	4.43474e-08	0.999999
rad33	3.10848e-08	0.999999	3.58102e-08	0.999999
rad64	2.63650e-08	0.999999	3.03730e-08	0.999999
rad65	1.45292e-08	0.999999	1.67379e-08	0.999999
rad58	1.24038e-08	0.999999	1.42894e-08	0.999999
rad71	1.08257e-08	0.999999	1.24714e-08	0.999999
rad42	9.74873e-09	0.999999	1.12307e-08	0.999999
rad73	7.81815e-09	0.999999	9.00670e-09	0.999999
rad68syn	4.08279e-09	0.999999	4.70344e-09	0.999999
PAH8+H	3.42600e-09	0.999999	3.94681e-09	0.999999
rad18	3.06753e-09	0.999999	3.53385e-09	0.999999
rad25	2.93363e-09	0.999999	3.37960e-09	0.999999
rad68anti	2.72266e-09	0.999999	3.13655e-09	0.999999
rad24	2.15906e-09	0.999999	2.48728e-09	0.999999
rad41	1.24847e-09	0.999999	1.43826e-09	0.999999
rad12	1.06207e-09	0.999999	1.22353e-09	0.999999
rad15	8.14381e-10	0.999999	9.38179e-10	0.999999
rad40syn	7.09999e-10	0.999999	8.17934e-10	0.999999

rad61	5.25821e-10	0.999999	6.05756e-10	0.999999
rad72	3.66669e-10	0.999999	4.22410e-10	0.999999
rad40anti	3.54974e-10	0.999999	4.08936e-10	0.999999
rad14	3.34124e-10	0.999999	3.84916e-10	0.999999
rad27	1.96564e-10	0.999999	2.26445e-10	0.999999
rad31	1.36269e-11	0.999999	1.56985e-11	0.999999
rad8	2.31671e-12	0.999999	2.66888e-12	0.999999
rad5	8.91255e-14	0.999999	1.02674e-13	0.999999
rad47	4.71942e-14	0.999999	5.43685e-14	0.999999

10.000000 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.50733e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.03336e-13 (0.268)
Formation of rad6	6.34764e-13 (0.352)	4.75182e-13 (0.315)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.417)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.417171	0.417171
Indene+H	0.167863	0.516746	0.200720	0.617891
Phenyl+Allene	0.163693	0.680440	0.000000	0.617891
C2H2+PhCH2	0.129201	0.809641	0.154490	0.772381
PhCHCCH2+H	0.0661131	0.875754	0.0790537	0.851435
PhCH2CCH+H	0.0526554	0.928409	0.0629618	0.914397
PhCCH+CH3	0.0517209	0.980130	0.0618446	0.976242
PAH7+H	0.00758128	0.987711	0.00906520	0.985307
Ph+MeAc	0.00699560	0.994707	0.00836488	0.993672
PhCCCH3+H	0.00194477	0.996652	0.00232543	0.995997
rad39	0.00157475	0.998227	0.00188297	0.997880
rad6	0.000732175	0.998959	0.000875485	0.998756
rad19anti	0.000400072	0.999359	0.000478380	0.999234
PAH9+H	0.000207159	0.999566	0.000247706	0.999482
rad19syn	0.000118935	0.999685	0.000142215	0.999624
rad38	8.39785e-05	0.999769	0.000100416	0.999724
rad54	4.05277e-05	0.999809	4.84604e-05	0.999773
rad35	3.96522e-05	0.999849	4.74135e-05	0.999820
rad30	3.72744e-05	0.999886	4.45703e-05	0.999865
PhcycC3H3_A+H	3.27335e-05	0.999919	3.91406e-05	0.999904
rad46	1.83302e-05	0.999937	2.19180e-05	0.999926
rad37	1.16334e-05	0.999949	1.39104e-05	0.999940
PAH3+H	6.97945e-06	0.999956	8.34558e-06	0.999948
PAH1+H	6.05701e-06	0.999962	7.24258e-06	0.999955
rad50	5.04422e-06	0.999967	6.03158e-06	0.999961
rad70	4.07451e-06	0.999971	4.87202e-06	0.999966
PAH10+CH3	3.87893e-06	0.999975	4.63816e-06	0.999971
rad11	3.27712e-06	0.999978	3.91857e-06	0.999975
rad67	3.02966e-06	0.999981	3.62267e-06	0.999978
rad23	2.86237e-06	0.999984	3.42263e-06	0.999982
rad7	2.45462e-06	0.999987	2.93507e-06	0.999985
rad55	2.19663e-06	0.999989	2.62659e-06	0.999987
rad60syn	1.37740e-06	0.999990	1.64700e-06	0.999989
rad9	1.19876e-06	0.999991	1.43340e-06	0.999990
rad28	1.16164e-06	0.999993	1.38901e-06	0.999992
rad45	1.02117e-06	0.999994	1.22104e-06	0.999993
rad59	8.54689e-07	0.999994	1.02198e-06	0.999994
rad60anti	8.03993e-07	0.999995	9.61365e-07	0.999995
rad13	7.64262e-07	0.999996	9.13852e-07	0.999996
rad51	6.75469e-07	0.999997	8.07684e-07	0.999997
rad34	6.60506e-07	0.999997	7.89791e-07	0.999998
rad62	5.92004e-07	0.999998	7.07881e-07	0.999998
rad2	3.95371e-07	0.999998	4.72758e-07	0.999999
rad52	2.93363e-07	0.999999	3.50784e-07	0.999999
rad53	1.90437e-07	0.999999	2.27712e-07	0.999999
rad10	1.17197e-07	0.999999	1.40135e-07	0.999999
rad56	1.09606e-07	0.999999	1.31059e-07	1.000000
rad36	9.54023e-08	0.999999	1.14076e-07	1.000000
rad1	9.06511e-08	0.999999	1.08395e-07	1.000000
rad21	9.02259e-08	0.999999	1.07886e-07	1.000000
rad43	7.91732e-08	0.999999	9.46701e-08	1.000000
rad26	6.80997e-08	0.999999	8.14288e-08	1.000000
rad64	5.87164e-08	1.000000	7.02093e-08	1.000000
rad20	4.60870e-08	1.000000	5.51078e-08	1.000000
rad22	2.74896e-08	1.000000	3.28703e-08	1.000000
rad3	2.53945e-08	1.000000	3.03651e-08	1.000000
rad33	2.30512e-08	1.000000	2.75631e-08	1.000000
rad58	2.26405e-08	1.000000	2.70721e-08	1.000000
rad65	2.02779e-08	1.000000	2.42471e-08	1.000000

rad4	1.97813e-08	1.000000	2.36532e-08	1.00000
rad42	1.82468e-08	1.000000	2.18184e-08	1.00000
PAH8+H	1.10911e-08	1.000000	1.32620e-08	1.00000
rad68syn	1.10474e-08	1.000000	1.32097e-08	1.00000
rad68anti	7.33568e-09	1.000000	8.77152e-09	1.00000
rad71	6.84070e-09	1.000000	8.17965e-09	1.00000
rad73	5.43840e-09	1.000000	6.50285e-09	1.00000
rad18	4.10639e-09	1.000000	4.91015e-09	1.00000
rad25	3.23619e-09	1.000000	3.86963e-09	1.00000
rad40syn	2.10412e-09	1.000000	2.51598e-09	1.00000
rad24	1.65504e-09	1.000000	1.97898e-09	1.00000
rad41	1.60698e-09	1.000000	1.92152e-09	1.00000
rad61	1.11185e-09	1.000000	1.32947e-09	1.00000
rad40anti	1.03584e-09	1.000000	1.23859e-09	1.00000
rad12	1.03367e-09	1.000000	1.23600e-09	1.00000
rad15	1.01650e-09	1.000000	1.21547e-09	1.00000
rad14	2.81773e-10	1.000000	3.36925e-10	1.00000
rad72	2.11278e-10	1.000000	2.52632e-10	1.00000
rad27	1.15935e-10	1.000000	1.38628e-10	1.00000
rad31	8.42207e-12	1.000000	1.00706e-11	1.00000
rad8	5.38688e-12	1.000000	6.44125e-12	1.00000
rad5	9.05567e-14	1.000000	1.08282e-13	1.00000
rad47	5.47221e-14	1.000000	6.54330e-14	1.00000

10.0000000 Pa, 1300.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.54148e-12	(1.00)	2.05330e-12	(1.00)
Formation of rad11	7.22991e-13	(0.284)	5.03386e-13	(0.245)
Formation of rad6	8.84215e-13	(0.348)	6.15638e-13	(0.300)
H-abstraction	9.34273e-13	(0.368)	9.34273e-13	(0.455)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.367610	0.367610	0.455011	0.455011
Phenyl+Allene	0.192086	0.559696	0.000000	0.455011
Indene+H	0.131258	0.690954	0.162466	0.617477
C2H2+PhCH2	0.111167	0.802121	0.137597	0.755073
PhCHCCH2+H	0.0692164	0.871337	0.0856728	0.840746
PhCH2CCH+H	0.0636387	0.934976	0.0787694	0.919516
PhCCH+CH3	0.0461074	0.981083	0.0570696	0.976585
PAH7+H	0.00794427	0.989027	0.00983307	0.986418
Ph+MeAc	0.00636614	0.995394	0.00787972	0.994298
rad39	0.00158148	0.996975	0.00195749	0.996255
PhCCCH3+H	0.00142122	0.998396	0.00175913	0.998015
rad19anti	0.000475784	0.998872	0.000588904	0.998603
rad6	0.000304742	0.999177	0.000377197	0.998981
PAH9+H	0.000243463	0.999420	0.000301347	0.999282
rad19syn	0.000174767	0.999595	0.000216319	0.999498
rad38	0.000100543	0.999696	0.000124448	0.999623
rad54	6.26662e-05	0.999758	7.75655e-05	0.999700
PhcycC3H3_A+H	5.74775e-05	0.999816	7.11428e-05	0.999771
rad35	4.55459e-05	0.999861	5.63747e-05	0.999828
rad30	3.52990e-05	0.999897	4.36915e-05	0.999871
rad46	2.36043e-05	0.999920	2.92164e-05	0.999901
rad37	1.29948e-05	0.999933	1.60844e-05	0.999917
PAH1+H	1.02933e-05	0.999943	1.27406e-05	0.999930
PAH3+H	9.33344e-06	0.999953	1.15525e-05	0.999941
rad50	7.75772e-06	0.999961	9.60216e-06	0.999951
rad70	6.43387e-06	0.999967	7.96354e-06	0.999959
PAH10+CH3	6.10095e-06	0.999973	7.55147e-06	0.999966
rad67	5.03873e-06	0.999978	6.23669e-06	0.999972
rad55	3.63243e-06	0.999982	4.49605e-06	0.999977
rad11	3.20596e-06	0.999985	3.96819e-06	0.999981
rad7	2.45946e-06	0.999987	3.04421e-06	0.999984
rad23	1.57857e-06	0.999989	1.95388e-06	0.999986
rad60syn	1.56411e-06	0.999991	1.93598e-06	0.999988
rad34	1.13537e-06	0.999992	1.40531e-06	0.999989
rad51	1.10919e-06	0.999993	1.37291e-06	0.999991
rad59	1.09932e-06	0.999994	1.36068e-06	0.999992
rad60anti	9.24168e-07	0.999995	1.14389e-06	0.999993
rad62	8.26496e-07	0.999996	1.02300e-06	0.999994
rad9	7.91727e-07	0.999996	9.79966e-07	0.999995
rad45	5.57521e-07	0.999997	6.90076e-07	0.999996
rad13	5.37526e-07	0.999998	6.65328e-07	0.999996
rad28	5.26682e-07	0.999998	6.51905e-07	0.999997
rad52	4.72533e-07	0.999999	5.84882e-07	0.999998
rad53	4.03197e-07	0.999999	4.99060e-07	0.999998
rad56	2.64861e-07	0.999999	3.27833e-07	0.999999

rad2	1.32725e-07	0.999999	1.64281e-07	0.999999
rad64	1.13904e-07	0.999999	1.40985e-07	0.999999
rad43	9.01757e-08	1.000000	1.11615e-07	0.999999
rad10	7.72401e-08	1.000000	9.56041e-08	0.999999
rad21	6.00916e-08	1.000000	7.43790e-08	0.999999
rad36	5.26114e-08	1.000000	6.51202e-08	0.999999
rad58	3.76941e-08	1.000000	4.66561e-08	0.999999
rad65	3.37266e-08	1.000000	4.17452e-08	0.999999
rad26	3.26160e-08	1.000000	4.03705e-08	0.999999
PAH8+H	3.16175e-08	1.000000	3.91348e-08	0.999999
rad1	3.10372e-08	1.000000	3.84164e-08	0.999999
rad42	3.09394e-08	1.000000	3.82954e-08	0.999999
rad20	2.76579e-08	1.000000	3.42337e-08	0.999999
rad68syn	2.54044e-08	1.000000	3.14444e-08	1.000000
rad22	1.85930e-08	1.000000	2.30136e-08	1.000000
rad68anti	1.68045e-08	1.000000	2.07998e-08	1.000000
rad33	1.52062e-08	1.000000	1.88215e-08	1.000000
rad3	1.06121e-08	1.000000	1.31352e-08	1.000000
rad4	8.34293e-09	1.000000	1.03265e-08	1.000000
rad71	6.48579e-09	1.000000	8.02779e-09	1.000000
rad73	6.20212e-09	1.000000	7.67671e-09	1.000000
rad40syn	5.48018e-09	1.000000	6.78315e-09	1.000000
rad18	4.83116e-09	1.000000	5.97978e-09	1.000000
rad40anti	2.78119e-09	1.000000	3.44243e-09	1.000000
rad25	2.66970e-09	1.000000	3.30444e-09	1.000000
rad61	2.46086e-09	1.000000	3.04595e-09	1.000000
rad41	2.25238e-09	1.000000	2.78789e-09	1.000000
rad15	1.63835e-09	1.000000	2.02788e-09	1.000000
rad24	1.20943e-09	1.000000	1.49697e-09	1.000000
rad12	9.24580e-10	1.000000	1.14441e-09	1.000000
rad14	1.88565e-10	1.000000	2.33398e-10	1.000000
rad72	1.47171e-10	1.000000	1.82162e-10	1.000000
rad27	5.53735e-11	1.000000	6.85389e-11	1.000000
rad8	7.88698e-12	1.000000	9.76217e-12	1.000000
rad31	5.35860e-12	1.000000	6.63262e-12	1.000000
rad5	1.17539e-13	1.000000	1.45485e-13	1.000000
rad47	8.49439e-14	1.000000	1.05140e-13	1.000000

10.000000 Pa, 1400.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.47024e-12	(1.00)	2.71971e-12	(1.00)
Formation of rad11	9.43269e-13	(0.272)	6.11710e-13	(0.225)
Formation of rad6	1.19194e-12	(0.343)	7.72970e-13	(0.284)
H-abstraction	1.33503e-12	(0.385)	1.33503e-12	(0.491)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.490872	0.490872
Phenyl+Allene	0.216275	0.600984	0.00000	0.490872
Indene+H	0.102658	0.703641	0.130986	0.621859
C2H2+PhCH2	0.0939506	0.797592	0.119877	0.741736
PhCH2CCH+H	0.0730603	0.870652	0.0932213	0.834957
PhCHCCH2+H	0.0704274	0.941080	0.0898621	0.924819
PhCCH+CH3	0.0407416	0.981821	0.0519845	0.976804
PAH7+H	0.00807994	0.989901	0.0103096	0.987113
Ph+MeAc	0.00577950	0.995681	0.00737441	0.994488
rad39	0.00153868	0.997219	0.00196329	0.996451
PhCCCH3+H	0.00104777	0.998267	0.00133691	0.997788
rad19anti	0.000537713	0.998805	0.000686101	0.998474
PAH9+H	0.000275810	0.999081	0.000351922	0.998826
rad19syn	0.000241157	0.999322	0.000307706	0.999134
rad6	0.000162928	0.999485	0.000207890	0.999341
rad38	0.000115972	0.999601	0.000147975	0.999489
PhcycC3H3_A+H	9.27847e-05	0.999694	0.000118389	0.999608
rad54	9.02558e-05	0.999784	0.000115163	0.999723
rad35	5.06845e-05	0.999834	6.46714e-05	0.999788
rad30	3.27753e-05	0.999867	4.18198e-05	0.999830
rad46	2.91233e-05	0.999896	3.71601e-05	0.999867
PAH1+H	1.60084e-05	0.999912	2.04260e-05	0.999887
rad37	1.43626e-05	0.999927	1.83261e-05	0.999905
PAH3+H	1.18472e-05	0.999939	1.51166e-05	0.999921
rad50	1.15394e-05	0.999950	1.47238e-05	0.999935
rad70	9.33433e-06	0.999959	1.19102e-05	0.999947
PAH10+CH3	9.01924e-06	0.999968	1.15082e-05	0.999959
rad67	7.71415e-06	0.999976	9.84292e-06	0.999969
rad55	5.54459e-06	0.999982	7.07464e-06	0.999976
rad11	2.43387e-06	0.999984	3.10552e-06	0.999979
rad7	2.21117e-06	0.999986	2.82136e-06	0.999982

rad51	1.86316e-06	0.999988	2.37732e-06	0.999984
rad34	1.77576e-06	0.999990	2.26580e-06	0.999986
rad60syn	1.71249e-06	0.999992	2.18506e-06	0.999988
rad59	1.34478e-06	0.999993	1.71588e-06	0.999990
rad62	1.09298e-06	0.999994	1.39460e-06	0.999991
rad60anti	1.02295e-06	0.999995	1.30525e-06	0.999993
rad23	9.40029e-07	0.999996	1.19944e-06	0.999994
rad53	7.63982e-07	0.999997	9.74806e-07	0.999995
rad52	7.49468e-07	0.999998	9.56290e-07	0.999996
rad56	5.62105e-07	0.999998	7.17223e-07	0.999997
rad9	5.14862e-07	0.999999	6.56943e-07	0.999997
rad13	3.30924e-07	0.999999	4.22245e-07	0.999998
rad45	3.09039e-07	0.999999	3.94320e-07	0.999998
rad28	3.01288e-07	1.000000	3.84431e-07	0.999998
rad64	1.98003e-07	1.000000	2.52643e-07	0.999999
rad43	1.00239e-07	1.000000	1.27901e-07	0.999999
PAH8+H	7.74116e-08	1.000000	9.87738e-08	0.999999
rad58	5.81220e-08	1.000000	7.41611e-08	0.999999
rad65	5.63542e-08	1.000000	7.19056e-08	0.999999
rad68syn	5.12268e-08	1.000000	6.53633e-08	0.999999
rad42	4.85583e-08	1.000000	6.19583e-08	0.999999
rad2	4.68000e-08	1.000000	5.97146e-08	0.999999
rad10	4.05586e-08	1.000000	5.17513e-08	0.999999
rad21	3.85400e-08	1.000000	4.91755e-08	0.999999
rad68anti	3.37713e-08	1.000000	4.30907e-08	0.999999
rad36	2.94558e-08	1.000000	3.75843e-08	0.999999
rad26	1.77474e-08	1.000000	2.26449e-08	0.999999
rad20	1.58988e-08	1.000000	2.02862e-08	1.000000
rad22	1.38886e-08	1.000000	1.77213e-08	1.000000
rad40syn	1.23860e-08	1.000000	1.58040e-08	1.000000
rad73	1.14741e-08	1.000000	1.46405e-08	1.000000
rad71	1.12036e-08	1.000000	1.42953e-08	1.000000
rad1	1.10911e-08	1.000000	1.41518e-08	1.000000
rad33	9.82152e-09	1.000000	1.25319e-08	1.000000
rad40anti	6.48874e-09	1.000000	8.27933e-09	1.000000
rad61	4.99034e-09	1.000000	6.36746e-09	1.000000
rad3	4.68102e-09	1.000000	5.97278e-09	1.000000
rad18	4.11370e-09	1.000000	5.24890e-09	1.000000
rad4	3.70614e-09	1.000000	4.72889e-09	1.000000
rad41	3.10753e-09	1.000000	3.96508e-09	1.000000
rad15	2.84581e-09	1.000000	3.63114e-09	1.000000
rad25	1.96229e-09	1.000000	2.50379e-09	1.000000
rad24	8.67068e-10	1.000000	1.10634e-09	1.000000
rad12	7.86803e-10	1.000000	1.00392e-09	1.000000
rad72	1.92897e-10	1.000000	2.46129e-10	1.000000
rad14	1.16596e-10	1.000000	1.48772e-10	1.000000
rad27	2.57340e-11	1.000000	3.28355e-11	1.000000
rad8	9.28406e-12	1.000000	1.18461e-11	1.000000
rad31	3.51540e-12	1.000000	4.48550e-12	1.000000
rad5	1.80064e-13	1.000000	2.29754e-13	1.000000
rad47	1.40456e-13	1.000000	1.79215e-13	1.000000

10.000000 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.61271e-12 (1.00)	3.52345e-12 (1.00)
Formation of rad11	1.20217e-12 (0.261)	7.28714e-13 (0.207)
Formation of rad6	1.56360e-12 (0.339)	9.47799e-13 (0.269)
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.524)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.524185	0.524185
Phenyl+Allene	0.236143	0.636545	0.00000	0.524185
PhCH2CCH+H	0.0806471	0.717192	0.105578	0.629763
Indene+H	0.0805805	0.797772	0.105492	0.735255
C2H2+PhCH2	0.0786474	0.876420	0.102961	0.838216
PhCHCCH2+H	0.0701487	0.946569	0.0918348	0.930051
PhCCH+CH3	0.0359165	0.982485	0.0470199	0.977071
PAH7+H	0.00805050	0.990536	0.0105392	0.987610
Ph+MeAc	0.00525818	0.995794	0.00688372	0.994494
rad39	0.00146467	0.997259	0.00191747	0.996411
PhCCCH3+H	0.000784783	0.998043	0.00102739	0.997439
rad19anti	0.000583045	0.998626	0.000763289	0.998202
rad19syn	0.000316727	0.998943	0.000414641	0.998616
PAH9+H	0.000303228	0.999246	0.000396969	0.999013
PhcycC3H3_A+H	0.000140002	0.999386	0.000183283	0.999197
rad38	0.000129691	0.999516	0.000169785	0.999366
rad54	0.000122868	0.999639	0.000160852	0.999527

rad6	0.000106802	0.999746	0.000139819	0.999667
rad35	5.50152e-05	0.999801	7.20228e-05	0.999739
rad46	3.46128e-05	0.999835	4.53131e-05	0.999785
rad30	3.01045e-05	0.999865	3.94112e-05	0.999824
PAH1+H	2.32044e-05	0.999889	3.03779e-05	0.999854
rad50	1.63610e-05	0.999905	2.14188e-05	0.999876
rad37	1.56243e-05	0.999921	2.04544e-05	0.999896
PAH3+H	1.44619e-05	0.999935	1.89327e-05	0.999915
rad70	1.26654e-05	0.999948	1.65809e-05	0.999932
PAH10+CH3	1.25887e-05	0.999960	1.64804e-05	0.999948
rad67	1.09980e-05	0.999971	1.43979e-05	0.999963
rad55	7.94005e-06	0.999979	1.03947e-05	0.999973
rad51	2.99429e-06	0.999982	3.91996e-06	0.999977
rad34	2.57643e-06	0.999985	3.37292e-06	0.999980
rad60syn	1.82815e-06	0.999987	2.39331e-06	0.999983
rad7	1.61508e-06	0.999988	2.11437e-06	0.999985
rad59	1.58527e-06	0.999990	2.07535e-06	0.999987
rad11	1.57177e-06	0.999991	2.05768e-06	0.999989
rad62	1.38768e-06	0.999993	1.81668e-06	0.999991
rad53	1.32286e-06	0.999994	1.73181e-06	0.999992
rad52	1.13142e-06	0.999995	1.48119e-06	0.999994
rad60anti	1.10285e-06	0.999996	1.44379e-06	0.999995
rad56	1.07294e-06	0.999997	1.40463e-06	0.999997
rad23	6.00107e-07	0.999998	7.85633e-07	0.999998
rad9	3.31494e-07	0.999998	4.33974e-07	0.999998
rad64	3.15300e-07	0.999999	4.12773e-07	0.999998
rad28	2.10005e-07	0.999999	2.74927e-07	0.999999
rad13	1.96853e-07	0.999999	2.57709e-07	0.999999
rad45	1.74452e-07	0.999999	2.28382e-07	0.999999
PAH8+H	1.66368e-07	0.999999	2.17800e-07	0.999999
rad43	1.09629e-07	1.000000	1.43519e-07	1.000000
rad68syn	9.28747e-08	1.000000	1.21587e-07	1.000000
rad65	8.95751e-08	1.000000	1.17267e-07	1.000000
rad58	8.42795e-08	1.000000	1.10334e-07	1.000000
rad42	7.17095e-08	1.000000	9.38774e-08	1.000000
rad68anti	6.10462e-08	1.000000	7.99184e-08	1.000000
rad40syn	2.48268e-08	1.000000	3.25019e-08	1.000000
rad71	2.46171e-08	1.000000	3.22274e-08	1.000000
rad21	2.45120e-08	1.000000	3.20898e-08	1.000000
rad73	2.40288e-08	1.000000	3.14571e-08	1.000000
rad10	1.80419e-08	1.000000	2.36194e-08	1.000000
rad2	1.73642e-08	1.000000	2.27323e-08	1.000000
rad36	1.67921e-08	1.000000	2.19832e-08	1.000000
rad40anti	1.33792e-08	1.000000	1.75153e-08	1.000000
rad22	1.23328e-08	1.000000	1.61454e-08	1.000000
rad26	1.03274e-08	1.000000	1.35200e-08	1.000000
rad61	9.17013e-09	1.000000	1.20050e-08	1.000000
rad20	9.08882e-09	1.000000	1.18986e-08	1.000000
rad33	6.36281e-09	1.000000	8.32981e-09	1.000000
rad1	4.15747e-09	1.000000	5.44271e-09	1.000000
rad41	4.15303e-09	1.000000	5.43690e-09	1.000000
rad15	3.78954e-09	1.000000	4.96104e-09	1.000000
rad18	2.77485e-09	1.000000	3.63268e-09	1.000000
rad3	2.17439e-09	1.000000	2.84659e-09	1.000000
rad4	1.73119e-09	1.000000	2.26638e-09	1.000000
rad25	1.38981e-09	1.000000	1.81946e-09	1.000000
rad12	6.49286e-10	1.000000	8.50006e-10	1.000000
rad24	6.18185e-10	1.000000	8.09291e-10	1.000000
rad72	4.41476e-10	1.000000	5.77954e-10	1.000000
rad14	7.23738e-11	1.000000	9.47482e-11	1.000000
rad27	1.24482e-11	1.000000	1.62964e-11	1.000000
rad8	9.78603e-12	1.000000	1.28113e-11	1.000000
rad31	2.37889e-12	1.000000	3.11430e-12	1.000000
rad5	2.86939e-13	1.000000	3.75645e-13	1.000000
rad47	2.24261e-13	1.000000	2.93590e-13	1.000000

10.000000 Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.27376e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.05227e-12 (0.168)
Formation of rad6	2.80256e-12 (0.325)	1.44551e-12 (0.230)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.602)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.601868	0.601868
Phenyl+Allene	0.272076	0.710190	0.000000	0.601868
PhCH2CCH+H	0.0933381	0.803528	0.128225	0.730093

PhCHCCH2+H	0.0656237	0.869152	0.0901521	0.820246
C2H2+PhCH2	0.0475724	0.916724	0.0653533	0.885599
Indene+H	0.0395073	0.956232	0.0542737	0.939873
PhCCH+CH3	0.0276418	0.983874	0.0379735	0.977846
PAH7+H	0.00712589	0.990999	0.00978926	0.987635
Ph+MeAc	0.00488449	0.995884	0.00671015	0.994345
rad39	0.00123378	0.997118	0.00169492	0.996040
rad19anti	0.000564026	0.997682	0.000774836	0.996815
rad19syn	0.000506637	0.998188	0.000696002	0.997511
PhCCCH3+H	0.000461108	0.998650	0.000633455	0.998145
PhcycC3H3_A+H	0.000355380	0.999005	0.000488209	0.998633
PAH9+H	0.000266990	0.999272	0.000366782	0.999000
rad54	0.000215158	0.999487	0.000295576	0.999295
rad38	0.000142990	0.999630	0.000196435	0.999492
rad35	4.88733e-05	0.999679	6.71405e-05	0.999559
rad6	4.40641e-05	0.999723	6.05339e-05	0.999619
PAH1+H	4.24652e-05	0.999765	5.83374e-05	0.999678
rad46	3.80723e-05	0.999804	5.23026e-05	0.999730
rad50	2.42075e-05	0.999828	3.32556e-05	0.999763
rad30	2.30121e-05	0.999851	3.16133e-05	0.999795
PAH10+CH3	2.22579e-05	0.999873	3.05772e-05	0.999825
rad70	2.20580e-05	0.999895	3.03026e-05	0.999856
PAH3+H	2.08187e-05	0.999916	2.86001e-05	0.999884
rad55	1.72180e-05	0.999933	2.36536e-05	0.999908
rad67	1.69339e-05	0.999950	2.32632e-05	0.999931
rad37	1.61453e-05	0.999966	2.21799e-05	0.999953
rad51	6.37701e-06	0.999973	8.76049e-06	0.999962
rad34	5.25964e-06	0.999978	7.22553e-06	0.999969
rad53	4.40495e-06	0.999982	6.05136e-06	0.999975
rad56	4.00664e-06	0.999986	5.50417e-06	0.999981
rad62	2.35838e-06	0.999989	3.23987e-06	0.999984
rad52	2.07765e-06	0.999991	2.85421e-06	0.999987
rad59	2.06572e-06	0.999993	2.83782e-06	0.999990
rad60syn	1.94317e-06	0.999995	2.66947e-06	0.999993
rad60anti	1.30735e-06	0.999996	1.79600e-06	0.999994
rad64	7.90168e-07	0.999997	1.08551e-06	0.999995
PAH8+H	5.96228e-07	0.999997	8.19076e-07	0.999996
rad71	3.47785e-07	0.999998	4.77778e-07	0.999997
rad68syn	2.82422e-07	0.999998	3.87982e-07	0.999997
rad7	2.42448e-07	0.999998	3.33067e-07	0.999997
rad68anti	1.83003e-07	0.999998	2.51403e-07	0.999998
rad11	1.79962e-07	0.999999	2.47225e-07	0.999998
rad65	1.78734e-07	0.999999	2.45539e-07	0.999998
rad42	1.71017e-07	0.999999	2.34937e-07	0.999998
rad73	1.69684e-07	0.999999	2.33106e-07	0.999999
rad58	1.57685e-07	0.999999	2.16623e-07	0.999999
rad43	1.31551e-07	0.999999	1.80720e-07	0.999999
rad23	1.20101e-07	1.000000	1.64992e-07	0.999999
rad28	1.05638e-07	1.000000	1.45123e-07	0.999999
rad40syn	8.43834e-08	1.000000	1.15923e-07	1.000000
rad40anti	5.04376e-08	1.000000	6.92896e-08	1.000000
rad72	4.62706e-08	1.000000	6.35649e-08	1.000000
rad61	2.66317e-08	1.000000	3.65858e-08	1.000000
rad9	2.35110e-08	1.000000	3.22987e-08	1.000000
rad13	1.62384e-08	1.000000	2.23078e-08	1.000000
rad45	1.37651e-08	1.000000	1.89100e-08	1.000000
rad22	1.12217e-08	1.000000	1.54161e-08	1.000000
rad41	7.94478e-09	1.000000	1.09143e-08	1.000000
rad36	2.35438e-09	1.000000	3.23438e-09	1.000000
rad26	2.09503e-09	1.000000	2.87809e-09	1.000000
rad21	1.98419e-09	1.000000	2.72581e-09	1.000000
rad15	1.15573e-09	1.000000	1.58771e-09	1.000000
rad10	1.05787e-09	1.000000	1.45327e-09	1.000000
rad20	6.52613e-10	1.000000	8.96541e-10	1.000000
rad33	5.53991e-10	1.000000	7.61057e-10	1.000000
rad2	4.12971e-10	1.000000	5.67326e-10	1.000000
rad18	3.10416e-10	1.000000	4.26439e-10	1.000000
rad25	1.43352e-10	1.000000	1.96932e-10	1.000000
rad1	1.06128e-10	1.000000	1.45795e-10	1.000000
rad12	7.46622e-11	1.000000	1.02568e-10	1.000000
rad3	6.83444e-11	1.000000	9.38894e-11	1.000000
rad24	6.06477e-11	1.000000	8.33162e-11	1.000000
rad4	4.35925e-11	1.000000	5.98862e-11	1.000000
rad14	7.64675e-12	1.000000	1.05049e-11	1.000000
rad8	2.76665e-12	1.000000	3.80073e-12	1.000000
rad27	7.06621e-13	1.000000	9.70737e-13	1.000000
rad5	6.81573e-13	1.000000	9.36322e-13	1.000000
rad47	1.53058e-13	1.000000	2.10266e-13	1.000000

10.000000 Pa, 2000.00000 K

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Rate constant      | True (fraction)      Effective (fraction)
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Total              | 1.44111e-11 (1.00  ) 1.02928e-11 (1.00  )
Formation of rad11| 3.16882e-12 (0.220  ) 1.47442e-12 (0.143  )
Formation of rad6  | 4.53302e-12 (0.315  ) 2.10917e-12 (0.205  )
H-abstraction     | 6.70922e-12 (0.466  ) 6.70922e-12 (0.652  )

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species           | PYtrue      Cumul      | PYeffective  Cumul
-----
Benzene+2-propynyl| 0.465560    0.465560    | 0.651836    0.651836
Phenyl+Allene     | 0.285771    0.751331    | 0.000000    0.651836
PhCH2CCH+H       | 0.0971761   0.848507    | 0.136057    0.787893
PhCHCCH2+H       | 0.0592956   0.907803    | 0.0830204   0.870914
C2H2+PhCH2       | 0.0319887   0.939791    | 0.0447878   0.915701
Indene+H          | 0.0232984   0.963090    | 0.0326204   0.948322
PhCCH+CH3        | 0.0216441   0.984734    | 0.0303041   0.978626
PAH7+H           | 0.00659312  0.991327    | 0.00923108  0.987857
Ph+MeAc          | 0.00420917  0.995536    | 0.00589330  0.993750
rad39            | 0.00101470  0.996551    | 0.00142069  0.995171
rad19syn         | 0.000747061 0.997298    | 0.00104597  0.996217
PhcycC3H3_A+H   | 0.000656923 0.997955    | 0.000919762 0.997137
rad19anti        | 0.000529175 0.998484    | 0.000740904 0.997878
rad54            | 0.000330330 0.998814    | 0.000462498 0.998340
PhCCCH3+H       | 0.000291893 0.999106    | 0.000408682 0.998749
PAH9+H          | 0.000279624 0.999386    | 0.000391504 0.999140
rad38            | 0.000156477 0.999542    | 0.000219085 0.999359
PAH1+H          | 6.97439e-05 0.999612    | 9.76496e-05 0.999457
rad35            | 5.18733e-05 0.999664    | 7.26284e-05 0.999530
rad46            | 4.57719e-05 0.999710    | 6.40859e-05 0.999594
rad50            | 3.88560e-05 0.999749    | 5.44027e-05 0.999648
PAH10+CH3       | 3.34584e-05 0.999782    | 4.68455e-05 0.999695
rad70            | 3.20151e-05 0.999814    | 4.48247e-05 0.999740
rad55            | 2.86998e-05 0.999843    | 4.01830e-05 0.999780
PAH3+H          | 2.79098e-05 0.999871    | 3.90769e-05 0.999819
rad67            | 2.51636e-05 0.999896    | 3.52318e-05 0.999854
rad30            | 1.88887e-05 0.999915    | 2.64462e-05 0.999881
rad37            | 1.66056e-05 0.999931    | 2.32497e-05 0.999904
rad51            | 1.23807e-05 0.999944    | 1.73344e-05 0.999921
rad56            | 1.03438e-05 0.999954    | 1.44824e-05 0.999936
rad53            | 9.92102e-06 0.999964    | 1.38906e-05 0.999950
rad34            | 8.56301e-06 0.999973    | 1.19892e-05 0.999962
rad6             | 7.03691e-06 0.999980    | 9.85245e-06 0.999972
rad52            | 3.65570e-06 0.999983    | 5.11839e-06 0.999977
rad62            | 3.41850e-06 0.999987    | 4.78628e-06 0.999981
rad59            | 2.58745e-06 0.999989    | 3.62272e-06 0.999985
rad60syn        | 2.06850e-06 0.999991    | 2.89613e-06 0.999988
PAH8+H          | 1.81809e-06 0.999993    | 2.54552e-06 0.999991
rad64            | 1.47693e-06 0.999995    | 2.06787e-06 0.999993
rad60anti       | 1.42213e-06 0.999996    | 1.99114e-06 0.999995
rad68syn        | 6.54277e-07 0.999997    | 9.16058e-07 0.999996
rad71            | 5.68435e-07 0.999997    | 7.95872e-07 0.999996
rad68anti       | 4.22035e-07 0.999998    | 5.90897e-07 0.999997
rad73            | 3.60929e-07 0.999998    | 5.05339e-07 0.999997
rad65            | 3.39387e-07 0.999998    | 4.75181e-07 0.999998
rad42            | 3.12969e-07 0.999999    | 4.38192e-07 0.999998
rad58            | 2.75859e-07 0.999999    | 3.86232e-07 0.999999
rad40syn        | 2.27790e-07 0.999999    | 3.18931e-07 0.999999
rad43            | 1.62616e-07 0.999999    | 2.27680e-07 0.999999
rad40anti       | 1.42869e-07 1.000000    | 2.00032e-07 0.999999
rad61            | 5.99877e-08 1.000000    | 8.39894e-08 1.000000
rad7             | 5.38453e-08 1.000000    | 7.53897e-08 1.000000
rad23            | 4.50713e-08 1.000000    | 6.31047e-08 1.000000
rad11            | 4.20620e-08 1.000000    | 5.88913e-08 1.000000
rad72            | 3.43048e-08 1.000000    | 4.80306e-08 1.000000
rad28            | 2.42739e-08 1.000000    | 3.39861e-08 1.000000
rad41            | 1.34902e-08 1.000000    | 1.88878e-08 1.000000
rad9             | 8.00115e-09 1.000000    | 1.12025e-08 1.000000
rad13            | 4.92353e-09 1.000000    | 6.89347e-09 1.000000
rad45            | 4.17738e-09 1.000000    | 5.84881e-09 1.000000
rad22            | 2.96041e-09 1.000000    | 4.14489e-09 1.000000
rad36            | 7.31028e-10 1.000000    | 1.02352e-09 1.000000
rad21            | 7.17924e-10 1.000000    | 1.00517e-09 1.000000
rad15            | 4.06634e-10 1.000000    | 5.69332e-10 1.000000
rad26            | 3.64075e-10 1.000000    | 5.09747e-10 1.000000
rad33            | 2.26361e-10 1.000000    | 3.16931e-10 1.000000
rad20            | 1.91855e-10 1.000000    | 2.68618e-10 1.000000
rad10            | 1.34965e-10 1.000000    | 1.88966e-10 1.000000
rad18            | 6.82672e-11 1.000000    | 9.55815e-11 1.000000
rad25            | 5.81038e-11 1.000000    | 8.13517e-11 1.000000

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rad2	5.09982e-11	1.000000	7.14032e-11	1.000000
rad12	4.14669e-11	1.000000	5.80581e-11	1.000000
rad24	2.85069e-11	1.000000	3.99128e-11	1.000000
rad3	1.69265e-11	1.000000	2.36989e-11	1.000000
rad1	1.35435e-11	1.000000	1.89624e-11	1.000000
rad4	1.07343e-11	1.000000	1.50292e-11	1.000000
rad14	2.94493e-12	1.000000	4.12324e-12	1.000000
rad8	2.34779e-12	1.000000	3.28717e-12	1.000000
rad5	4.03607e-13	1.000000	5.65095e-13	1.000000
rad47	2.89524e-13	1.000000	4.05367e-13	1.000000
rad27	1.92357e-13	1.000000	2.69321e-13	1.000000

10.000000 Pa, 2250.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.23655e-11	(1.00)	1.58436e-11	(1.00)
Formation of rad11	4.62280e-12	(0.207)	1.98923e-12	(0.126)
Formation of rad6	6.82518e-12	(0.305)	2.93693e-12	(0.185)
H-abstraction	1.09175e-11	(0.488)	1.09175e-11	(0.689)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.689077	0.689077
Phenyl+Allene	0.291602	0.779743	0.000000	0.689077
PhCH2CCH+H	0.0967405	0.876483	0.136563	0.825639
PhCHCCH2+H	0.0532733	0.929756	0.0752030	0.900842
C2H2+PhCH2	0.0232632	0.953020	0.0328391	0.933681
PhCCH+CH3	0.0176487	0.970668	0.0249135	0.958595
Indene+H	0.0145368	0.985205	0.0205207	0.979115
PAH7+H	0.00604327	0.991248	0.00853090	0.987646
Ph+MeAc	0.00373474	0.994983	0.00527211	0.992919
PhcycC3H3_A+H	0.00104461	0.996028	0.00147461	0.994393
rad19syn	0.000992737	0.997020	0.00140138	0.995794
rad39	0.000833753	0.997854	0.00117695	0.996971
rad19anti	0.000463501	0.998318	0.000654295	0.997626
rad54	0.000448459	0.998766	0.000633062	0.998259
PAH9+H	0.000276032	0.999042	0.000389659	0.998648
PhCCCH3+H	0.000209656	0.999252	0.000295958	0.998944
rad38	0.000160738	0.999413	0.000226903	0.999171
PAH1+H	9.96115e-05	0.999512	0.000140615	0.999312
rad50	5.46697e-05	0.999567	7.71737e-05	0.999389
rad35	5.25015e-05	0.999619	7.41126e-05	0.999463
rad46	5.07079e-05	0.999670	7.15811e-05	0.999535
PAH10+CH3	4.32224e-05	0.999713	6.10144e-05	0.999596
rad55	4.15482e-05	0.999755	5.86510e-05	0.999654
rad70	4.13239e-05	0.999796	5.83345e-05	0.999713
PAH3+H	3.54289e-05	0.999832	5.00130e-05	0.999763
rad67	3.21724e-05	0.999864	4.54157e-05	0.999808
rad56	2.11036e-05	0.999885	2.97907e-05	0.999838
rad51	2.05593e-05	0.999905	2.90222e-05	0.999867
rad53	1.82297e-05	0.999924	2.57337e-05	0.999893
rad30	1.61767e-05	0.999940	2.28356e-05	0.999916
rad37	1.58089e-05	0.999956	2.23164e-05	0.999938
rad34	1.21382e-05	0.999968	1.71347e-05	0.999955
rad52	5.54216e-06	0.999973	7.82349e-06	0.999963
rad62	4.54336e-06	0.999978	6.41357e-06	0.999969
PAH8+H	4.26563e-06	0.999982	6.02153e-06	0.999975
rad59	3.10144e-06	0.999985	4.37811e-06	0.999980
rad64	2.31436e-06	0.999988	3.26703e-06	0.999983
rad60syn	2.18354e-06	0.999990	3.08236e-06	0.999986
rad60anti	1.52764e-06	0.999991	2.15647e-06	0.999988
rad71	1.45195e-06	0.999993	2.04962e-06	0.999990
rad6	1.30816e-06	0.999994	1.84665e-06	0.999992
rad68syn	1.22849e-06	0.999995	1.73418e-06	0.999994
rad73	8.61051e-07	0.999996	1.21549e-06	0.999995
rad68anti	7.89784e-07	0.999997	1.11489e-06	0.999996
rad65	5.44322e-07	0.999997	7.68382e-07	0.999997
rad42	4.98369e-07	0.999998	7.03517e-07	0.999998
rad40syn	4.83741e-07	0.999998	6.82866e-07	0.999998
rad58	4.30355e-07	0.999999	6.07504e-07	0.999999
rad40anti	3.15447e-07	0.999999	4.45295e-07	0.999999
rad43	2.01386e-07	0.999999	2.84284e-07	1.000000
rad61	1.06800e-07	0.999999	1.50763e-07	1.000000
rad72	8.34204e-08	1.000000	1.17759e-07	1.000000
rad41	2.12032e-08	1.000000	2.99313e-08	1.000000
rad7	1.71791e-08	1.000000	2.42508e-08	1.000000
rad11	1.31080e-08	1.000000	1.85037e-08	1.000000
rad23	1.07050e-08	1.000000	1.51116e-08	1.000000
rad28	4.72193e-09	1.000000	6.66564e-09	1.000000

rad9	2.90869e-09	1.000000	4.10602e-09	1.00000
rad13	1.83686e-09	1.000000	2.59297e-09	1.00000
rad45	1.44770e-09	1.000000	2.04362e-09	1.00000
rad22	7.21927e-10	1.000000	1.01910e-09	1.00000
rad21	2.98619e-10	1.000000	4.21541e-10	1.00000
rad36	2.58370e-10	1.000000	3.64726e-10	1.00000
rad15	1.63284e-10	1.000000	2.30498e-10	1.00000
rad33	1.06561e-10	1.000000	1.50424e-10	1.00000
rad26	9.16982e-11	1.000000	1.29445e-10	1.00000
rad20	6.86133e-11	1.000000	9.68570e-11	1.00000
rad10	3.38726e-11	1.000000	4.78160e-11	1.00000
rad25	2.68880e-11	1.000000	3.79560e-11	1.00000
rad12	2.31783e-11	1.000000	3.27194e-11	1.00000
rad18	2.07790e-11	1.000000	2.93324e-11	1.00000
rad24	1.45631e-11	1.000000	2.05578e-11	1.00000
rad2	9.56047e-12	1.000000	1.34959e-11	1.00000
rad3	5.47117e-12	1.000000	7.72334e-12	1.00000
rad4	3.41118e-12	1.000000	4.81533e-12	1.00000
rad1	2.56319e-12	1.000000	3.61831e-12	1.00000
rad8	2.01449e-12	1.000000	2.84372e-12	1.00000
rad14	1.41484e-12	1.000000	1.99725e-12	1.00000
rad47	4.72781e-13	1.000000	6.67394e-13	1.00000
rad5	2.27766e-13	1.000000	3.21523e-13	1.00000
rad27	7.43676e-14	1.000000	1.04980e-13	1.00000

10.000000 Pa, 2500.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.28090e-11	(1.00)	2.31980e-11	(1.00)
Formation of rad11	6.43164e-12	(0.196)	2.60905e-12	(0.112)
Formation of rad6	9.73932e-12	(0.297)	3.95084e-12	(0.170)
H-abstraction	1.66381e-11	(0.507)	1.66381e-11	(0.717)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.717221	0.717221
Phenyl+Allene	0.292940	0.800058	0.000000	0.717221
PhCH2CCH+H	0.0943957	0.894454	0.133504	0.850725
PhCHCCH2+H	0.0481937	0.942648	0.0681608	0.918886
C2H2+PhCH2	0.0183496	0.960997	0.0259520	0.944838
PhCCH+CH3	0.0148751	0.975872	0.0210379	0.965876
Indene+H	0.00953277	0.985405	0.0134822	0.979358
PAH7+H	0.00553043	0.990935	0.00782172	0.987180
Ph+MeAc	0.00339481	0.994330	0.00480130	0.991981
PhcycC3H3_A+H	0.00149316	0.995823	0.00211179	0.994093
rad19syn	0.00122621	0.997050	0.00173423	0.995827
rad39	0.000692493	0.997742	0.000979399	0.996806
rad54	0.000558302	0.998300	0.000789609	0.997596
rad19anti	0.000392533	0.998693	0.000555160	0.998151
PAH9+H	0.000261390	0.998954	0.000369685	0.998521
PhCCCH3+H	0.000164586	0.999119	0.000232775	0.998754
rad38	0.000157803	0.999277	0.000223182	0.998977
PAH1+H	0.000129623	0.999406	0.000183328	0.999160
rad50	6.95549e-05	0.999476	9.83717e-05	0.999259
rad55	5.44683e-05	0.999530	7.70352e-05	0.999336
rad46	5.29621e-05	0.999583	7.49045e-05	0.999411
rad35	5.14110e-05	0.999635	7.27107e-05	0.999483
PAH10+CH3	5.04341e-05	0.999685	7.13293e-05	0.999555
rad70	4.95228e-05	0.999735	7.00404e-05	0.999625
PAH3+H	4.31623e-05	0.999778	6.10446e-05	0.999686
rad67	3.73886e-05	0.999815	5.28788e-05	0.999739
rad56	3.65137e-05	0.999852	5.16417e-05	0.999790
rad51	2.99461e-05	0.999882	4.23529e-05	0.999833
rad53	2.90227e-05	0.999911	4.10471e-05	0.999874
rad34	1.57209e-05	0.999926	2.22341e-05	0.999896
rad30	1.43454e-05	0.999941	2.02887e-05	0.999916
rad37	1.43018e-05	0.999955	2.02271e-05	0.999936
PAH8+H	8.32940e-06	0.999963	1.17803e-05	0.999948
rad52	7.47819e-06	0.999971	1.05764e-05	0.999959
rad62	5.70323e-06	0.999977	8.06616e-06	0.999967
rad59	3.60020e-06	0.999980	5.09180e-06	0.999972
rad71	3.22477e-06	0.999983	4.56080e-06	0.999976
rad64	3.22150e-06	0.999987	4.55619e-06	0.999981
rad60syn	2.29249e-06	0.999989	3.24229e-06	0.999984
rad68syn	1.99925e-06	0.999991	2.82755e-06	0.999987
rad73	1.73339e-06	0.999993	2.45155e-06	0.999989
rad60anti	1.62673e-06	0.999994	2.30069e-06	0.999992
rad68anti	1.28209e-06	0.999996	1.81327e-06	0.999994
rad40syn	8.70473e-07	0.999996	1.23111e-06	0.999995

rad65	7.65977e-07	0.999997	1.08333e-06	0.999996
rad42	7.25521e-07	0.999998	1.02611e-06	0.999997
rad58	6.16782e-07	0.999999	8.72319e-07	0.999998
rad40anti	5.85933e-07	0.999999	8.28687e-07	0.999999
rad6	3.51620e-07	0.999999	4.97298e-07	0.999999
rad43	2.45132e-07	1.000000	3.46693e-07	0.999999
rad72	2.21387e-07	1.000000	3.13110e-07	1.000000
rad61	1.61764e-07	1.000000	2.28783e-07	1.000000
rad41	3.09983e-08	1.000000	4.38412e-08	1.000000
rad7	6.71640e-09	1.000000	9.49905e-09	1.000000
rad11	4.87809e-09	1.000000	6.89910e-09	1.000000
rad23	3.01780e-09	1.000000	4.26810e-09	1.000000
rad28	1.25008e-09	1.000000	1.76800e-09	1.000000
rad9	1.13464e-09	1.000000	1.60473e-09	1.000000
rad13	7.94816e-10	1.000000	1.12411e-09	1.000000
rad45	5.64039e-10	1.000000	7.97725e-10	1.000000
rad22	2.26386e-10	1.000000	3.20179e-10	1.000000
rad21	1.39641e-10	1.000000	1.97495e-10	1.000000
rad36	1.02359e-10	1.000000	1.44767e-10	1.000000
rad15	7.06772e-11	1.000000	9.99590e-11	1.000000
rad33	5.56769e-11	1.000000	7.87440e-11	1.000000
rad26	3.18912e-11	1.000000	4.51038e-11	1.000000
rad20	2.93013e-11	1.000000	4.14410e-11	1.000000
rad25	1.37459e-11	1.000000	1.94409e-11	1.000000
rad12	1.32609e-11	1.000000	1.87550e-11	1.000000
rad10	1.20463e-11	1.000000	1.70372e-11	1.000000
rad24	7.99114e-12	1.000000	1.13019e-11	1.000000
rad18	7.82868e-12	1.000000	1.10722e-11	1.000000
rad2	2.61115e-12	1.000000	3.69298e-12	1.000000
rad3	2.17286e-12	1.000000	3.07310e-12	1.000000
rad8	1.74750e-12	1.000000	2.47150e-12	1.000000
rad4	1.32627e-12	1.000000	1.87575e-12	1.000000
rad14	7.81301e-13	1.000000	1.10500e-12	1.000000
rad1	6.85731e-13	1.000000	9.69833e-13	1.000000
rad47	6.75287e-13	1.000000	9.55066e-13	1.000000
rad5	1.48904e-13	1.000000	2.10596e-13	1.000000
rad27	3.69695e-14	1.000000	5.22861e-14	1.000000

10.000000 Pa, 2750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.60596e-11 (1.00)	3.26255e-11 (1.00)
Formation of rad11	8.62280e-12 (0.187)	3.34633e-12 (0.103)
Formation of rad6	1.33313e-11 (0.289)	5.17360e-12 (0.159)
H-abstraction	2.41055e-11 (0.523)	2.41055e-11 (0.739)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.738856	0.738856
Phenyl+Allene	0.291669	0.815024	0.000000	0.738856
PhCH2CCH+H	0.0913925	0.906416	0.129025	0.867881
PhCHCCH2+H	0.0440896	0.950506	0.0622444	0.930126
C2H2+PhCH2	0.0155259	0.966032	0.0219190	0.952045
PhCCH+CH3	0.0128664	0.978898	0.0181643	0.970209
Indene+H	0.00652670	0.985425	0.00921422	0.979423
PAH7+H	0.00506746	0.990492	0.00715408	0.986577
Ph+MeAc	0.00315047	0.993643	0.00444775	0.991025
PhcycC3H3_A+H	0.00197303	0.995616	0.00278546	0.993810
rad19syn	0.00143569	0.997052	0.00202687	0.995837
rad54	0.000652599	0.997704	0.000921317	0.996759
rad39	0.000584043	0.998288	0.000824538	0.997583
rad19anti	0.000328571	0.998617	0.000463867	0.998047
PAH9+H	0.000240061	0.998857	0.000338912	0.998386
PAH1+H	0.000158293	0.999015	0.000223474	0.998609
rad38	0.000149713	0.999165	0.000211361	0.998821
PhCCCH3+H	0.000136861	0.999302	0.000193217	0.999014
rad50	8.19649e-05	0.999384	0.000115716	0.999130
rad55	6.64339e-05	0.999450	9.37892e-05	0.999223
rad70	5.64830e-05	0.999507	7.97410e-05	0.999303
rad56	5.59930e-05	0.999563	7.90490e-05	0.999382
PAH10+CH3	5.49977e-05	0.999618	7.76440e-05	0.999460
rad46	5.29196e-05	0.999671	7.47106e-05	0.999535
PAH3+H	5.07708e-05	0.999721	7.16764e-05	0.999606
rad35	4.92117e-05	0.999771	6.94757e-05	0.999676
rad53	4.15963e-05	0.999812	5.87244e-05	0.999734
rad67	4.08894e-05	0.999853	5.77266e-05	0.999792
rad51	3.94277e-05	0.999892	5.56628e-05	0.999848
rad34	1.91383e-05	0.999912	2.70187e-05	0.999875
PAH8+H	1.42402e-05	0.999926	2.01039e-05	0.999895

rad30	1.30159e-05	0.999939	1.83754e-05	0.999913
rad37	1.25496e-05	0.999951	1.77172e-05	0.999931
rad52	9.23276e-06	0.999961	1.30345e-05	0.999944
rad62	6.96527e-06	0.999968	9.83336e-06	0.999954
rad71	6.06698e-06	0.999974	8.56515e-06	0.999962
rad64	4.12929e-06	0.999978	5.82961e-06	0.999968
rad59	4.06488e-06	0.999982	5.73868e-06	0.999974
rad73	2.98959e-06	0.999985	4.22060e-06	0.999978
rad68syn	2.93860e-06	0.999988	4.14863e-06	0.999982
rad60syn	2.38752e-06	0.999990	3.37063e-06	0.999986
rad68anti	1.88088e-06	0.999992	2.65536e-06	0.999988
rad60anti	1.71401e-06	0.999994	2.41979e-06	0.999991
rad40syn	1.39060e-06	0.999995	1.96321e-06	0.999993
rad42	1.00624e-06	0.999996	1.42058e-06	0.999994
rad65	9.77223e-07	0.999997	1.37961e-06	0.999996
rad40anti	9.60907e-07	0.999998	1.35658e-06	0.999997
rad58	8.26841e-07	0.999999	1.16731e-06	0.999998
rad72	4.94024e-07	0.999999	6.97444e-07	0.999999
rad43	2.90367e-07	1.000000	4.09933e-07	0.999999
rad61	2.19019e-07	1.000000	3.09205e-07	1.000000
rad6	1.19226e-07	1.000000	1.68320e-07	1.000000
rad41	4.25229e-08	1.000000	6.00325e-08	1.000000
rad7	3.01493e-09	1.000000	4.25641e-09	1.000000
rad11	2.08530e-09	1.000000	2.94398e-09	1.000000
rad23	1.03777e-09	1.000000	1.46509e-09	1.000000
rad9	4.76181e-10	1.000000	6.72257e-10	1.000000
rad28	4.22852e-10	1.000000	5.96969e-10	1.000000
rad13	3.86405e-10	1.000000	5.45516e-10	1.000000
rad45	2.42675e-10	1.000000	3.42602e-10	1.000000
rad22	8.48762e-11	1.000000	1.19826e-10	1.000000
rad21	7.21741e-11	1.000000	1.01893e-10	1.000000
rad36	4.46595e-11	1.000000	6.30490e-11	1.000000
rad15	3.25855e-11	1.000000	4.60033e-11	1.000000
rad33	3.15200e-11	1.000000	4.44991e-11	1.000000
rad20	1.46427e-11	1.000000	2.06722e-11	1.000000
rad26	1.29777e-11	1.000000	1.83216e-11	1.000000
rad12	7.84806e-12	1.000000	1.10797e-11	1.000000
rad25	7.64863e-12	1.000000	1.07981e-11	1.000000
rad10	5.14372e-12	1.000000	7.26175e-12	1.000000
rad24	4.65722e-12	1.000000	6.57492e-12	1.000000
rad18	3.46963e-12	1.000000	4.89832e-12	1.000000
rad8	1.53038e-12	1.000000	2.16055e-12	1.000000
rad3	1.00776e-12	1.000000	1.42273e-12	1.000000
rad2	9.34892e-13	1.000000	1.31986e-12	1.000000
rad47	8.69802e-13	1.000000	1.22796e-12	1.000000
rad4	6.04505e-13	1.000000	8.53425e-13	1.000000
rad14	4.77432e-13	1.000000	6.74025e-13	1.000000
rad1	2.35830e-13	1.000000	3.32937e-13	1.000000
rad5	1.04164e-13	1.000000	1.47055e-13	1.000000
rad27	2.16921e-14	1.000000	3.06243e-14	1.000000

10.000000 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.43911e-11 (1.00)
Formation of rad11	1.12221e-11 (0.180)	4.21269e-12 (0.0949)
Formation of rad6	1.76534e-11 (0.283)	6.62699e-12 (0.149)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.756)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.755814	0.755814
Phenyl+Allene	0.288911	0.826362	0.000000	0.755814
PhCH2CCH+H	0.0883066	0.914669	0.124185	0.879999
PhCHCCH2+H	0.0408111	0.955480	0.0573925	0.937392
C2H2+PhCH2	0.0138651	0.969345	0.0194984	0.956890
PhCCH+CH3	0.0113582	0.980703	0.0159730	0.972863
PAH7+H	0.00465329	0.985356	0.00654386	0.979407
Indene+H	0.00463895	0.989995	0.00652370	0.985931
Ph+MeAc	0.00297587	0.992971	0.00418496	0.990116
PhcycC3H3_A+H	0.00245642	0.995428	0.00345445	0.993570
rad19syn	0.00161454	0.997042	0.00227053	0.995841
rad54	0.000727890	0.997770	0.00102362	0.996864
rad39	0.000500510	0.998270	0.000703863	0.997568
rad19anti	0.000275357	0.998546	0.000387232	0.997955
PAH9+H	0.000215435	0.998761	0.000302966	0.998258
PAH1+H	0.000185099	0.998946	0.000260305	0.998519
rad38	0.000138297	0.999085	0.000194486	0.998713
PhCCCH3+H	0.000118094	0.999203	0.000166075	0.998879

rad50	9.10217e-05	0.999294	0.000128003	0.999007
rad56	7.84311e-05	0.999372	0.000110297	0.999117
rad55	7.67854e-05	0.999449	0.000107983	0.999225
rad70	6.22156e-05	0.999511	8.74935e-05	0.999313
PAH3+H	5.79162e-05	0.999569	8.14475e-05	0.999394
PAH10+CH3	5.73435e-05	0.999626	8.06422e-05	0.999475
rad53	5.50946e-05	0.999682	7.74790e-05	0.999552
rad46	5.10964e-05	0.999733	7.18566e-05	0.999624
rad51	4.79945e-05	0.999781	6.74945e-05	0.999692
rad35	4.64038e-05	0.999827	6.52572e-05	0.999757
rad67	4.30005e-05	0.999870	6.04712e-05	0.999818
rad34	2.22803e-05	0.999892	3.13327e-05	0.999849
PAH8+H	2.20425e-05	0.999914	3.09982e-05	0.999880
rad30	1.19659e-05	0.999926	1.68276e-05	0.999897
rad37	1.08360e-05	0.999937	1.52386e-05	0.999912
rad52	1.06408e-05	0.999948	1.49641e-05	0.999927
rad71	9.98046e-06	0.999958	1.40354e-05	0.999941
rad62	8.52403e-06	0.999966	1.19873e-05	0.999953
rad64	4.99011e-06	0.999971	7.01756e-06	0.999960
rad73	4.56510e-06	0.999976	6.41987e-06	0.999966
rad59	4.47702e-06	0.999980	6.29602e-06	0.999973
rad68syn	4.00555e-06	0.999984	5.63298e-06	0.999978
rad68anti	2.55994e-06	0.999987	3.60003e-06	0.999982
rad60syn	2.46101e-06	0.999989	3.46090e-06	0.999985
rad40syn	2.03324e-06	0.999991	2.85934e-06	0.999988
rad60anti	1.78407e-06	0.999993	2.50894e-06	0.999991
rad40anti	1.43625e-06	0.999995	2.01978e-06	0.999993
rad42	1.37802e-06	0.999996	1.93790e-06	0.999995
rad65	1.15679e-06	0.999997	1.62679e-06	0.999996
rad58	1.05023e-06	0.999998	1.47693e-06	0.999998
rad72	9.39644e-07	0.999999	1.32141e-06	0.999999
rad43	3.36096e-07	0.999999	4.72649e-07	1.000000
rad61	2.73992e-07	1.000000	3.85313e-07	1.000000
rad41	5.56848e-08	1.000000	7.83094e-08	1.000000
rad6	4.72979e-08	1.000000	6.65150e-08	1.000000
rad7	1.50387e-09	1.000000	2.11488e-09	1.000000
rad11	1.00076e-09	1.000000	1.40736e-09	1.000000
rad23	4.06647e-10	1.000000	5.71864e-10	1.000000
rad9	2.15022e-10	1.000000	3.02385e-10	1.000000
rad13	2.06334e-10	1.000000	2.90166e-10	1.000000
rad28	1.67294e-10	1.000000	2.35265e-10	1.000000
rad45	1.13375e-10	1.000000	1.59438e-10	1.000000
rad21	4.05828e-11	1.000000	5.70714e-11	1.000000
rad22	3.62813e-11	1.000000	5.10222e-11	1.000000
rad36	2.11056e-11	1.000000	2.96806e-11	1.000000
rad33	1.90039e-11	1.000000	2.67249e-11	1.000000
rad15	1.59821e-11	1.000000	2.24755e-11	1.000000
rad20	8.34220e-12	1.000000	1.17316e-11	1.000000
rad26	5.81636e-12	1.000000	8.17952e-12	1.000000
rad12	4.82952e-12	1.000000	6.79171e-12	1.000000
rad25	4.57374e-12	1.000000	6.43203e-12	1.000000
rad24	2.85396e-12	1.000000	4.01349e-12	1.000000
rad10	2.46071e-12	1.000000	3.46048e-12	1.000000
rad18	1.74375e-12	1.000000	2.45221e-12	1.000000
rad8	1.34879e-12	1.000000	1.89680e-12	1.000000
rad47	1.03454e-12	1.000000	1.45487e-12	1.000000
rad3	5.25261e-13	1.000000	7.38672e-13	1.000000
rad2	4.05414e-13	1.000000	5.70130e-13	1.000000
rad14	3.18034e-13	1.000000	4.47248e-13	1.000000
rad4	3.12662e-13	1.000000	4.39693e-13	1.000000
rad1	9.75913e-14	1.000000	1.37242e-13	1.000000
rad5	7.56966e-14	1.000000	1.06452e-13	1.000000
rad27	1.41323e-14	1.000000	1.98742e-14	1.000000

10.000000 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.22129e-11 (1.00)	5.87536e-11 (1.00)
Formation of rad11	1.42538e-11 (0.173)	5.21850e-12 (0.0888)
Formation of rad6	2.27549e-11 (0.277)	8.33085e-12 (0.142)
H-abstraction	4.52043e-11 (0.550)	4.52043e-11 (0.769)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.549844	0.549844	0.769387	0.769387
Phenyl+Allene	0.285348	0.835192	0.00000	0.769387
PhCH2CCH+H	0.0853725	0.920565	0.119460	0.888847
PhCHCCH2+H	0.0381839	0.958748	0.0534300	0.942277
C2H2+PhCH2	0.0128678	0.971616	0.0180058	0.960283

PhCCH+CH3	0.0101926	0.981809	0.0142624	0.974545
PAH7+H	0.00428274	0.986092	0.00599278	0.980538
Indene+H	0.00340696	0.989499	0.00476730	0.985306
PhcycC3H3_A+H	0.00292038	0.992419	0.00408644	0.989392
Ph+MeAc	0.00285191	0.995271	0.00399062	0.993383
rad19syn	0.00176005	0.997031	0.00246281	0.995845
rad54	0.000783510	0.997814	0.00109635	0.996942
rad39	0.000435199	0.998250	0.000608968	0.997551
rad19anti	0.000232598	0.998482	0.000325471	0.997876
PAH1+H	0.000210286	0.998693	0.000294251	0.998170
PAH9+H	0.000189946	0.998882	0.000265788	0.998436
rad38	0.000125074	0.999008	0.000175014	0.998611
PhCCCH3+H	0.000104500	0.999112	0.000146225	0.998757
rad56	0.000102496	0.999215	0.000143421	0.998901
rad50	9.64752e-05	0.999311	0.000134996	0.999036
rad55	8.51952e-05	0.999396	0.000119212	0.999155
rad53	6.86880e-05	0.999465	9.61142e-05	0.999251
rad70	6.67834e-05	0.999532	9.34488e-05	0.999345
PAH3+H	6.43467e-05	0.999596	9.00396e-05	0.999435
PAH10+CH3	5.80427e-05	0.999654	8.12184e-05	0.999516
rad51	5.49249e-05	0.999709	7.68555e-05	0.999593
rad46	4.80263e-05	0.999757	6.72022e-05	0.999660
rad67	4.40669e-05	0.999801	6.16620e-05	0.999722
rad35	4.33473e-05	0.999844	6.06551e-05	0.999782
PAH8+H	3.16111e-05	0.999876	4.42329e-05	0.999827
rad34	2.50786e-05	0.999901	3.50921e-05	0.999862
rad71	1.47752e-05	0.999916	2.06748e-05	0.999882
rad52	1.16172e-05	0.999927	1.62557e-05	0.999899
rad30	1.10774e-05	0.999939	1.55004e-05	0.999914
rad62	1.06705e-05	0.999949	1.49311e-05	0.999929
rad37	9.29424e-06	0.999959	1.30053e-05	0.999942
rad73	6.33775e-06	0.999965	8.86829e-06	0.999951
rad64	5.77649e-06	0.999971	8.08294e-06	0.999959
rad68syn	5.15348e-06	0.999976	7.21120e-06	0.999966
rad59	4.82486e-06	0.999981	6.75138e-06	0.999973
rad68anti	3.28964e-06	0.999984	4.60315e-06	0.999978
rad40syn	2.77792e-06	0.999987	3.88710e-06	0.999981
rad60syn	2.50929e-06	0.999989	3.51120e-06	0.999985
rad40anti	1.99953e-06	0.999991	2.79791e-06	0.999988
rad42	1.90465e-06	0.999993	2.66515e-06	0.999990
rad60anti	1.83422e-06	0.999995	2.56658e-06	0.999993
rad72	1.57384e-06	0.999997	2.20224e-06	0.999995
rad65	1.29210e-06	0.999998	1.80801e-06	0.999997
rad58	1.27682e-06	0.999999	1.78664e-06	0.999999
rad43	3.85030e-07	0.999999	5.38765e-07	0.999999
rad61	3.23854e-07	1.000000	4.53164e-07	1.000000
rad41	7.10639e-08	1.000000	9.94389e-08	1.000000
rad6	2.11739e-08	1.000000	2.96285e-08	1.000000
rad7	8.15449e-10	1.000000	1.14105e-09	1.000000
rad11	5.29109e-10	1.000000	7.40376e-10	1.000000
rad23	1.75467e-10	1.000000	2.45527e-10	1.000000
rad13	1.18964e-10	1.000000	1.66464e-10	1.000000
rad9	1.04251e-10	1.000000	1.45876e-10	1.000000
rad28	7.43158e-11	1.000000	1.03989e-10	1.000000
rad45	5.66900e-11	1.000000	7.93258e-11	1.000000
rad21	2.44781e-11	1.000000	3.42518e-11	1.000000
rad22	1.72528e-11	1.000000	2.41417e-11	1.000000
rad33	1.20506e-11	1.000000	1.68622e-11	1.000000
rad36	1.06510e-11	1.000000	1.49037e-11	1.000000
rad15	8.32555e-12	1.000000	1.16498e-11	1.000000
rad20	5.27241e-12	1.000000	7.37759e-12	1.000000
rad12	3.09382e-12	1.000000	4.32914e-12	1.000000
rad25	2.90496e-12	1.000000	4.06488e-12	1.000000
rad26	2.81193e-12	1.000000	3.93470e-12	1.000000
rad24	1.82406e-12	1.000000	2.55238e-12	1.000000
rad10	1.27692e-12	1.000000	1.78677e-12	1.000000
rad8	1.19222e-12	1.000000	1.66826e-12	1.000000
rad47	1.15642e-12	1.000000	1.61817e-12	1.000000
rad18	9.64901e-13	1.000000	1.35017e-12	1.000000
rad3	2.99271e-13	1.000000	4.18765e-13	1.000000
rad14	2.30769e-13	1.000000	3.22911e-13	1.000000
rad2	2.01433e-13	1.000000	2.81862e-13	1.000000
rad4	1.78931e-13	1.000000	2.50374e-13	1.000000
rad5	5.68466e-14	1.000000	7.95444e-14	1.000000
rad1	4.64885e-14	1.000000	6.50504e-14	1.000000
rad27	9.89083e-15	1.000000	1.38401e-14	1.000000

10.000000 Pa, 3500.00000 K

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Rate constant | True (fraction) | Effective (fraction)

Total	1.05713e-10	(1.00)	7.59651e-11	(1.00)
Formation of rad11	1.77412e-11	(0.168)	6.37266e-12	(0.0839)
Formation of rad6	2.86822e-11	(0.271)	1.03027e-11	(0.136)
H-abstraction	5.92897e-11	(0.561)	5.92897e-11	(0.780)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.780487	0.780487
Phenyl+Allene	0.281404	0.842259	0.00000	0.780487
PhCH2CCH+H	0.0826652	0.924924	0.115038	0.895524
PhCHCCH2+H	0.0360585	0.960982	0.0501792	0.945703
C2H2+PhCH2	0.0122593	0.973242	0.0170601	0.962763
PhCCH+CH3	0.00927084	0.982512	0.0129013	0.975665
PAH7+H	0.00395025	0.986463	0.00549719	0.981162
PhcycC3H3_A+H	0.00334801	0.989811	0.00465911	0.985821
Ph+MeAc	0.00276398	0.992575	0.00384636	0.989667
Indene+H	0.00257590	0.995151	0.00358463	0.993252
rad19syn	0.00187235	0.997023	0.00260558	0.995858
rad54	0.000820548	0.997843	0.00114188	0.996999
rad39	0.000383055	0.998226	0.000533060	0.997533
PAH1+H	0.000234590	0.998461	0.000326456	0.997859
rad19anti	0.000198628	0.998660	0.000276411	0.998135
PAH9+H	0.000165224	0.998825	0.000229927	0.998365
rad56	0.000126873	0.998952	0.000176557	0.998542
rad38	0.000111229	0.999063	0.000154787	0.998697
rad50	9.85613e-05	0.999162	0.000137159	0.998834
PhCCCH3+H	9.42424e-05	0.999256	0.000131148	0.998965
rad55	9.15803e-05	0.999347	0.000127444	0.999092
rad53	8.16793e-05	0.999429	0.000113665	0.999206
rad70	7.02694e-05	0.999499	9.77873e-05	0.999304
PAH3+H	6.99220e-05	0.999569	9.73037e-05	0.999401
rad51	5.98511e-05	0.999629	8.32889e-05	0.999484
PAH10+CH3	5.76128e-05	0.999687	8.01742e-05	0.999565
rad67	4.43734e-05	0.999731	6.17502e-05	0.999626
rad46	4.41956e-05	0.999775	6.15028e-05	0.999688
PAH8+H	4.26935e-05	0.999818	5.94124e-05	0.999747
rad35	4.02805e-05	0.999858	5.60545e-05	0.999803
rad34	2.74951e-05	0.999886	3.82623e-05	0.999842
rad71	2.01286e-05	0.999906	2.80110e-05	0.999870
rad62	1.37117e-05	0.999920	1.90812e-05	0.999889
rad52	1.21501e-05	0.999932	1.69081e-05	0.999906
rad30	1.02915e-05	0.999942	1.43216e-05	0.999920
rad73	8.16323e-06	0.999950	1.13600e-05	0.999931
rad37	7.96636e-06	0.999958	1.10860e-05	0.999942
rad64	6.47621e-06	0.999965	9.01230e-06	0.999951
rad68syn	6.33612e-06	0.999971	8.81739e-06	0.999960
rad59	5.10458e-06	0.999976	7.10356e-06	0.999967
rad68anti	4.04059e-06	0.999980	5.62290e-06	0.999973
rad40syn	3.59895e-06	0.999984	5.00831e-06	0.999978
rad42	2.66321e-06	0.999986	3.70613e-06	0.999982
rad40anti	2.63316e-06	0.999989	3.66431e-06	0.999985
rad60syn	2.53258e-06	0.999992	3.52435e-06	0.999989
rad72	2.38451e-06	0.999994	3.31830e-06	0.999992
rad60anti	1.86455e-06	0.999996	2.59471e-06	0.999995
rad58	1.49815e-06	0.999997	2.08484e-06	0.999997
rad65	1.37925e-06	0.999999	1.91938e-06	0.999999
rad43	4.42452e-07	0.999999	6.15717e-07	0.999999
rad61	3.67258e-07	0.999999	5.11078e-07	1.000000
rad41	8.98821e-08	1.000000	1.25080e-07	1.000000
rad6	1.04583e-08	1.000000	1.45538e-08	1.000000
rad7	4.72929e-10	1.000000	6.58132e-10	1.000000
rad11	3.03258e-10	1.000000	4.22014e-10	1.000000
rad23	8.18238e-11	1.000000	1.13866e-10	1.000000
rad13	7.30896e-11	1.000000	1.01712e-10	1.000000
rad9	5.40570e-11	1.000000	7.52259e-11	1.000000
rad28	3.62473e-11	1.000000	5.04420e-11	1.000000
rad45	2.99845e-11	1.000000	4.17264e-11	1.000000
rad21	1.56498e-11	1.000000	2.17783e-11	1.000000
rad22	8.97060e-12	1.000000	1.24835e-11	1.000000
rad33	7.96302e-12	1.000000	1.10814e-11	1.000000
rad36	5.67358e-12	1.000000	7.89539e-12	1.000000
rad15	4.59118e-12	1.000000	6.38911e-12	1.000000
rad20	3.60826e-12	1.000000	5.02128e-12	1.000000
rad12	2.06004e-12	1.000000	2.86678e-12	1.000000
rad25	1.93953e-12	1.000000	2.69905e-12	1.000000
rad26	1.45159e-12	1.000000	2.02005e-12	1.000000
rad47	1.23126e-12	1.000000	1.71342e-12	1.000000
rad24	1.20837e-12	1.000000	1.68158e-12	1.000000
rad8	1.05386e-12	1.000000	1.46655e-12	1.000000

rad10	7.06427e-13	1.000000	9.83064e-13	1.00000
rad18	5.74868e-13	1.000000	7.99990e-13	1.00000
rad3	1.82818e-13	1.000000	2.54412e-13	1.00000
rad14	1.82801e-13	1.000000	2.54385e-13	1.00000
rad4	1.11074e-13	1.000000	1.54571e-13	1.00000
rad2	1.10526e-13	1.000000	1.53808e-13	1.00000
rad5	4.40454e-14	1.000000	6.12936e-14	1.00000
rad1	2.47411e-14	1.000000	3.44298e-14	1.00000
rad27	7.34159e-15	1.000000	1.02166e-14	1.00000

10.000000 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.33217e-10 (1.00)	9.62711e-11 (1.00)
Formation of rad11	2.17064e-11 (0.163)	7.68279e-12 (0.0798)
Formation of rad6	3.54800e-11 (0.266)	1.25578e-11 (0.130)
H-abstraction	7.60305e-11 (0.571)	7.60305e-11 (0.790)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789754	0.789754
Phenyl+Allene	0.277336	0.848063	0.00000	0.789754
PhCH2CCH+H	0.0801946	0.928257	0.110971	0.900725
PhCHCCH2+H	0.0343186	0.962576	0.0474891	0.948214
C2H2+PhCH2	0.0118839	0.974460	0.0164445	0.964658
PhCCH+CH3	0.00852836	0.982988	0.0118013	0.976459
PhcycC3H3_A+H	0.00372852	0.986717	0.00515939	0.981619
PAH7+H	0.00365085	0.990368	0.00505194	0.986671
Ph+MeAc	0.00270113	0.993069	0.00373773	0.990408
Indene+H	0.00199901	0.995068	0.00276616	0.993175
rad19syn	0.00195356	0.997021	0.00270328	0.995878
rad54	0.000841040	0.997862	0.00116381	0.997042
rad39	0.000340475	0.998203	0.000471138	0.997513
PAH1+H	0.000258935	0.998462	0.000358305	0.997871
rad19anti	0.000171610	0.998633	0.000237469	0.998109
rad56	0.000150421	0.998784	0.000208148	0.998317
PAH9+H	0.000142296	0.998926	0.000196904	0.998514
rad50	9.78214e-05	0.999024	0.000135362	0.998649
rad38	9.76282e-05	0.999122	0.000135095	0.998784
rad55	9.60227e-05	0.999218	0.000132873	0.998917
rad53	9.35446e-05	0.999311	0.000129444	0.999046
PhCCCH3+H	8.63448e-05	0.999397	0.000119481	0.999166
PAH3+H	7.46029e-05	0.999472	0.000103233	0.999269
rad70	7.27716e-05	0.999545	0.000100699	0.999370
rad51	6.27271e-05	0.999608	8.67996e-05	0.999457
PAH10+CH3	5.64592e-05	0.999664	7.81267e-05	0.999535
PAH8+H	5.49581e-05	0.999719	7.60493e-05	0.999611
rad67	4.41361e-05	0.999763	6.10741e-05	0.999672
rad46	4.00102e-05	0.999803	5.53647e-05	0.999727
rad35	3.73500e-05	0.999840	5.16837e-05	0.999779
rad34	2.95155e-05	0.999870	4.08426e-05	0.999820
rad71	2.56707e-05	0.999896	3.55223e-05	0.999855
rad62	1.78765e-05	0.999914	2.47369e-05	0.999880
rad52	1.22817e-05	0.999926	1.69950e-05	0.999897
rad73	9.90835e-06	0.999936	1.37109e-05	0.999911
rad30	9.58077e-06	0.999945	1.32575e-05	0.999924
rad68syn	7.51159e-06	0.999953	1.03943e-05	0.999934
rad64	7.08717e-06	0.999960	9.80700e-06	0.999944
rad37	6.84827e-06	0.999967	9.47639e-06	0.999954
rad59	5.31873e-06	0.999972	7.35989e-06	0.999961
rad68anti	4.78626e-06	0.999977	6.62308e-06	0.999968
rad40syn	4.46912e-06	0.999981	6.18422e-06	0.999974
rad42	3.72272e-06	0.999985	5.15138e-06	0.999979
rad72	3.33618e-06	0.999988	4.61652e-06	0.999984
rad40anti	3.31727e-06	0.999992	4.59032e-06	0.999988
rad60syn	2.53369e-06	0.999994	3.50604e-06	0.999992
rad60anti	1.87710e-06	0.999996	2.59748e-06	0.999994
rad58	1.70809e-06	0.999998	2.36361e-06	0.999997
rad65	1.42131e-06	0.999999	1.96676e-06	0.999999
rad43	5.13732e-07	1.000000	7.10883e-07	0.999999
rad61	4.03889e-07	1.00000	5.58890e-07	1.000000
rad41	1.13553e-07	1.00000	1.57130e-07	1.00000
rad6	5.60557e-09	1.00000	7.75679e-09	1.00000
rad7	2.89780e-10	1.00000	4.00989e-10	1.00000
rad11	1.85881e-10	1.00000	2.57217e-10	1.00000
rad13	4.73608e-11	1.00000	6.55366e-11	1.00000
rad23	4.07065e-11	1.00000	5.63285e-11	1.00000
rad9	2.98229e-11	1.00000	4.12679e-11	1.00000
rad28	1.91130e-11	1.00000	2.64481e-11	1.00000

rad45	1.66214e-11	1.00000	2.30001e-11	1.00000
rad21	1.05028e-11	1.00000	1.45334e-11	1.00000
rad33	5.44537e-12	1.00000	7.53515e-12	1.00000
rad22	5.02962e-12	1.00000	6.95983e-12	1.00000
rad36	3.16121e-12	1.00000	4.37438e-12	1.00000
rad15	2.66808e-12	1.00000	3.69200e-12	1.00000
rad20	2.62288e-12	1.00000	3.62945e-12	1.00000
rad12	1.42147e-12	1.00000	1.96699e-12	1.00000
rad25	1.34943e-12	1.00000	1.86730e-12	1.00000
rad47	1.26179e-12	1.00000	1.74603e-12	1.00000
rad8	9.29706e-13	1.00000	1.28649e-12	1.00000
rad24	8.25908e-13	1.00000	1.14287e-12	1.00000
rad26	7.94425e-13	1.00000	1.09930e-12	1.00000
rad10	4.12289e-13	1.00000	5.70513e-13	1.00000
rad18	3.62860e-13	1.00000	5.02113e-13	1.00000
rad14	1.57146e-13	1.00000	2.17453e-13	1.00000
rad3	1.18133e-13	1.00000	1.63468e-13	1.00000
rad4	7.36233e-14	1.00000	1.01877e-13	1.00000
rad2	6.54156e-14	1.00000	9.05201e-14	1.00000
rad5	3.51269e-14	1.00000	4.86076e-14	1.00000
rad1	1.44030e-14	1.00000	1.99304e-14	1.00000
rad27	5.76080e-15	1.00000	7.97158e-15	1.00000

10.000000 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.65008e-10 (1.00)	1.19912e-10 (1.00)
Formation of rad11	2.61707e-11 (0.159)	9.15556e-12 (0.0764)
Formation of rad6	4.31906e-11 (0.262)	1.51098e-11 (0.126)
H-abstraction	9.56470e-11 (0.580)	9.56470e-11 (0.798)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.579650	0.579650	0.797641	0.797641
Phenyl+Allene	0.273295	0.852945	0.000000	0.797641
PhCH2CCH+H	0.0779435	0.930888	0.107256	0.904897
PhCHCCH2+H	0.0328766	0.963765	0.0452408	0.950138
C2H2+PhCH2	0.0116508	0.975415	0.0160323	0.966170
PhCCH+CH3	0.00792125	0.983337	0.0109003	0.977070
PhcycC3H3_A+H	0.00405636	0.987393	0.00558187	0.982652
PAH7+H	0.00338058	0.990774	0.00465193	0.987304
Ph+MeAc	0.00265534	0.993429	0.00365394	0.990958
rad19syn	0.00200699	0.995436	0.00276178	0.993720
Indene+H	0.00158840	0.997024	0.00218576	0.995906
rad54	0.000847468	0.997872	0.00116618	0.997072
rad39	0.000304994	0.998177	0.000419695	0.997491
PAH1+H	0.000284127	0.998461	0.000390980	0.997882
rad56	0.000172242	0.998633	0.000237017	0.998119
rad19anti	0.000149971	0.998783	0.000206372	0.998326
PAH9+H	0.000121736	0.998905	0.000167518	0.998493
rad53	0.000103935	0.999009	0.000143023	0.998636
rad55	9.87033e-05	0.999108	0.000135823	0.998772
rad50	9.49261e-05	0.999203	0.000130625	0.998903
rad38	8.48536e-05	0.999287	0.000116765	0.999020
PhCCCH3+H	8.02193e-05	0.999368	0.000110388	0.999130
PAH3+H	7.84218e-05	0.999446	0.000107914	0.999238
rad70	7.43978e-05	0.999520	0.000102377	0.999340
PAH8+H	6.80299e-05	0.999588	9.36140e-05	0.999434
rad51	6.37407e-05	0.999652	8.77122e-05	0.999522
PAH10+CH3	5.48776e-05	0.999707	7.55158e-05	0.999597
rad67	4.35168e-05	0.999751	5.98821e-05	0.999657
rad46	3.57792e-05	0.999786	4.92348e-05	0.999706
rad35	3.46400e-05	0.999821	4.76673e-05	0.999754
rad34	3.11445e-05	0.999852	4.28572e-05	0.999797
rad71	3.10565e-05	0.999883	4.27360e-05	0.999839
rad62	2.32398e-05	0.999906	3.19798e-05	0.999871
rad52	1.20851e-05	0.999919	1.66300e-05	0.999888
rad73	1.14710e-05	0.999930	1.57850e-05	0.999904
rad30	8.93299e-06	0.999939	1.22925e-05	0.999916
rad68syn	8.64434e-06	0.999948	1.18952e-05	0.999928
rad64	7.61305e-06	0.999955	1.04761e-05	0.999939
rad37	5.91727e-06	0.999961	8.14263e-06	0.999947
rad68anti	5.50424e-06	0.999967	7.57424e-06	0.999954
rad59	5.47385e-06	0.999972	7.53243e-06	0.999962
rad40syn	5.36170e-06	0.999977	7.37810e-06	0.999969
rad42	5.12147e-06	0.999983	7.04750e-06	0.999976
rad72	4.37875e-06	0.999987	6.02547e-06	0.999982
rad40anti	4.03125e-06	0.999991	5.54731e-06	0.999988
rad60syn	2.51669e-06	0.999993	3.46315e-06	0.999991

rad58	1.90267e-06	0.999995	2.61822e-06	0.999994
rad60anti	1.87487e-06	0.999997	2.57996e-06	0.999996
rad65	1.42564e-06	0.999999	1.96179e-06	0.999998
rad43	6.01849e-07	0.999999	8.28191e-07	0.999999
rad61	4.34037e-07	1.000000	5.97267e-07	1.000000
rad41	1.43043e-07	1.000000	1.96838e-07	1.000000
rad6	3.21867e-09	1.000000	4.42914e-09	1.000000
rad7	1.85851e-10	1.000000	2.55746e-10	1.000000
rad11	1.20505e-10	1.000000	1.65824e-10	1.000000
rad13	3.21059e-11	1.000000	4.41801e-11	1.000000
rad23	2.13957e-11	1.000000	2.94420e-11	1.000000
rad9	1.74045e-11	1.000000	2.39500e-11	1.000000
rad28	1.07666e-11	1.000000	1.48156e-11	1.000000
rad45	9.58887e-12	1.000000	1.31950e-11	1.000000
rad21	7.34155e-12	1.000000	1.01025e-11	1.000000
rad33	3.83317e-12	1.000000	5.27473e-12	1.000000
rad22	3.00657e-12	1.000000	4.13727e-12	1.000000
rad20	1.99616e-12	1.000000	2.74686e-12	1.000000
rad36	1.82963e-12	1.000000	2.51771e-12	1.000000
rad15	1.62573e-12	1.000000	2.23714e-12	1.000000
rad47	1.25502e-12	1.000000	1.72700e-12	1.000000
rad12	1.01283e-12	1.000000	1.39372e-12	1.000000
rad25	9.71510e-13	1.000000	1.33687e-12	1.000000
rad8	8.17666e-13	1.000000	1.12517e-12	1.000000
rad24	5.80466e-13	1.000000	7.98762e-13	1.000000
rad26	4.58161e-13	1.000000	6.30466e-13	1.000000
rad10	2.52076e-13	1.000000	3.46876e-13	1.000000
rad18	2.39916e-13	1.000000	3.30143e-13	1.000000
rad14	1.44085e-13	1.000000	1.98272e-13	1.000000
rad3	7.99733e-14	1.000000	1.10050e-13	1.000000
rad4	5.14631e-14	1.000000	7.08172e-14	1.000000
rad2	4.11487e-14	1.000000	5.66237e-14	1.000000
rad5	2.87412e-14	1.000000	3.95501e-14	1.000000
rad1	9.02614e-15	1.000000	1.24207e-14	1.000000
rad27	4.76644e-15	1.000000	6.55897e-15	1.000000

1.00000000 Pa, 20.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.56740e-51	(1.00)	1.56740e-51	(1.00)
Formation of rad11	1.56740e-51	(1.000)	1.56740e-51	(1.000)
Formation of rad6	3.73945e-60	(2.39e-09)	3.73945e-60	(2.39e-09)
H-abstraction	1.53631e-76	(9.80e-26)	1.53631e-76	(9.80e-26)
species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.942283	0.942283	0.942283	0.942283
Indene+H	0.0525601	0.994843	0.0525601	0.994843
rad23	0.00400580	0.998849	0.00400580	0.998849
C2H2+PhCH2	0.000454885	0.999304	0.000454885	0.999304
rad11	0.000279138	0.999583	0.000279138	0.999583
rad7	0.000218460	0.999801	0.000218460	0.999801
rad45	0.000163881	0.999965	0.000163881	0.999965
rad36	1.02085e-05	0.999975	1.02085e-05	0.999975
rad2	9.29971e-06	0.999985	9.29971e-06	0.999985
rad22	5.79988e-06	0.999991	5.79988e-06	0.999991
rad3	2.89647e-06	0.999993	2.89647e-06	0.999993
PhCHCCH2+H	2.47199e-06	0.999996	2.47199e-06	0.999996
rad4	1.46433e-06	0.999997	1.46433e-06	0.999997
rad13	6.72605e-07	0.999998	6.72605e-07	0.999998
rad1	5.87776e-07	0.999999	5.87776e-07	0.999999
rad10	5.35974e-07	0.999999	5.35974e-07	0.999999
rad28	5.17616e-07	1.000000	5.17616e-07	1.000000
rad9	1.37094e-07	1.000000	1.37094e-07	1.000000
PhCCH+CH3	5.94720e-08	1.000000	5.94720e-08	1.000000
rad30	2.39077e-08	1.000000	2.39077e-08	1.000000
rad25	1.27568e-08	1.000000	1.27568e-08	1.000000
rad15	4.24955e-09	1.000000	4.24955e-09	1.000000
PAH9+H	1.67492e-09	1.000000	1.67492e-09	1.000000
rad26	1.05421e-09	1.000000	1.05421e-09	1.000000
Phenyl+Allene	9.46702e-10	1.000000	0.000000	1.000000
rad35	9.16592e-10	1.000000	9.16592e-10	1.000000
rad33	8.50450e-10	1.000000	8.50450e-10	1.000000
PhCCCH3+H	5.60046e-10	1.000000	5.60046e-10	1.000000
rad38	4.66688e-10	1.000000	4.66688e-10	1.000000
rad14	2.90510e-10	1.000000	2.90510e-10	1.000000
rad18	4.09549e-11	1.000000	4.09549e-11	1.000000
rad8	1.36043e-11	1.000000	1.36043e-11	1.000000
rad27	8.24088e-12	1.000000	8.24088e-12	1.000000

rad20	6.91017e-12	1.000000	6.91017e-12	1.000000
Ph+MeAc	5.90846e-12	1.000000	5.90846e-12	1.000000
rad21	4.42918e-12	1.000000	4.42918e-12	1.000000
rad46	2.58575e-12	1.000000	2.58575e-12	1.000000
rad24	1.25369e-12	1.000000	1.25369e-12	1.000000
rad60syn	1.70639e-13	1.000000	1.70639e-13	1.000000
PAH7+H	1.13943e-13	1.000000	1.13943e-13	1.000000
rad39	1.02342e-14	1.000000	1.02342e-14	1.000000
rad31	1.06112e-15	1.000000	1.06112e-15	1.000000
rad60anti	3.28170e-16	1.000000	3.28170e-16	1.000000
rad12	1.35756e-16	1.000000	1.35756e-16	1.000000
PhCH2CCH+H	3.01112e-17	1.000000	3.01112e-17	1.000000
rad37	5.21362e-21	1.000000	5.21362e-21	1.000000
rad5	6.19538e-22	1.000000	6.19538e-22	1.000000
PAH3+H	8.96914e-25	1.000000	8.96914e-25	1.000000
rad50	5.71358e-25	1.000000	5.71358e-25	1.000000
rad59	4.39946e-25	1.000000	4.39946e-25	1.000000
Benzene+2-propynyl	9.80165e-26	1.000000	9.80165e-26	1.000000
rad19syn	4.52266e-30	1.000000	4.52266e-30	1.000000
rad54	1.47014e-33	1.000000	1.47014e-33	1.000000
rad52	3.16155e-34	1.000000	3.16155e-34	1.000000
PAH10+CH3	2.57884e-34	1.000000	2.57884e-34	1.000000
rad43	1.72859e-34	1.000000	1.72859e-34	1.000000
rad62	4.50219e-36	1.000000	4.50219e-36	1.000000
rad51	4.79691e-39	1.000000	4.79691e-39	1.000000
rad70	5.77294e-40	1.000000	5.77294e-40	1.000000
PhcycC3H3_A+H	3.92676e-40	1.000000	3.92676e-40	1.000000
rad55	1.88633e-40	1.000000	1.88633e-40	1.000000
rad65	8.40427e-43	1.000000	8.40427e-43	1.000000
rad58	1.85976e-43	1.000000	1.85976e-43	1.000000
PAH1+H	7.17981e-44	1.000000	7.17981e-44	1.000000
rad34	1.67283e-45	1.000000	1.67283e-45	1.000000
rad42	1.37119e-48	1.000000	1.37119e-48	1.000000
rad47	3.53202e-49	1.000000	3.53202e-49	1.000000
rad41	2.56466e-49	1.000000	2.56466e-49	1.000000

1.00000000 Pa, 30.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	5.03204e-39	(1.00)	5.03204e-39	(1.00)
Formation of rad11	5.03203e-39	(1.000)	5.03203e-39	(1.000)
Formation of rad6	9.92181e-45	(1.97e-06)	9.92181e-45	(1.97e-06)
H-abstraction	3.33191e-55	(6.62e-17)	3.33191e-55	(6.62e-17)
species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.941839	0.941839	0.941839	0.941839
Indene+H	0.0556631	0.997502	0.0556631	0.997502
rad23	0.00166245	0.999165	0.00166245	0.999165
C2H2+PhCH2	0.000471231	0.999636	0.000471231	0.999636
rad7	0.000191054	0.999827	0.000191054	0.999827
rad11	7.67692e-05	0.999904	7.67692e-05	0.999904
rad45	5.75805e-05	0.999961	5.75805e-05	0.999961
rad2	2.19650e-05	0.999983	2.19650e-05	0.999983
rad36	3.58572e-06	0.999987	3.58572e-06	0.999987
rad3	2.89097e-06	0.999990	2.89097e-06	0.999990
PhCHCCH2+H	2.63021e-06	0.999992	2.63021e-06	0.999992
rad22	1.79974e-06	0.999994	1.79974e-06	0.999994
rad10	1.47366e-06	0.999996	1.47366e-06	0.999996
rad4	1.46176e-06	0.999997	1.46176e-06	0.999997
rad1	1.38906e-06	0.999998	1.38906e-06	0.999998
rad28	1.09651e-06	0.999999	1.09651e-06	0.999999
rad13	5.84562e-07	1.00000	5.84562e-07	1.00000
PhCCH+CH3	1.57658e-07	1.00000	1.57658e-07	1.00000
rad9	1.46978e-07	1.00000	1.46978e-07	1.00000
rad30	2.49825e-08	1.00000	2.49825e-08	1.00000
rad26	6.83821e-09	1.00000	6.83821e-09	1.00000
rad15	4.46549e-09	1.00000	4.46549e-09	1.00000
PhCCCH3+H	2.96093e-09	1.00000	2.96093e-09	1.00000
PAH9+H	2.71419e-09	1.00000	2.71419e-09	1.00000
rad25	2.14555e-09	1.00000	2.14555e-09	1.00000
rad35	1.47036e-09	1.00000	1.47036e-09	1.00000
Phenyl+Allene	1.26062e-09	1.00000	0.00000	1.00000
rad33	7.90045e-10	1.00000	7.90045e-10	1.00000
rad38	7.19247e-10	1.00000	7.19247e-10	1.00000
rad14	2.93119e-10	1.00000	2.93119e-10	1.00000
rad8	3.27600e-11	1.00000	3.27600e-11	1.00000
Ph+MeAc	2.98604e-11	1.00000	2.98604e-11	1.00000
rad27	1.74556e-11	1.00000	1.74556e-11	1.00000

rad46	4.13995e-12	1.00000	4.13995e-12	1.00000
rad18	2.97497e-12	1.00000	2.97497e-12	1.00000
rad20	1.08725e-12	1.00000	1.08725e-12	1.00000
rad21	7.13852e-13	1.00000	7.13852e-13	1.00000
PAH7+H	5.14327e-13	1.00000	5.14327e-13	1.00000
rad24	4.41013e-13	1.00000	4.41013e-13	1.00000
rad60syn	1.87125e-13	1.00000	1.87125e-13	1.00000
rad39	4.68610e-14	1.00000	4.68610e-14	1.00000
rad12	1.86139e-15	1.00000	1.86139e-15	1.00000
rad31	1.26707e-15	1.00000	1.26707e-15	1.00000
rad60anti	2.71178e-16	1.00000	2.71178e-16	1.00000
Benzene+2-propynyl	6.62139e-17	1.00000	6.62139e-17	1.00000
PhCH2CCH+H	5.22052e-17	1.00000	5.22052e-17	1.00000
rad37	5.44575e-20	1.00000	5.44575e-20	1.00000
rad5	2.95383e-21	1.00000	2.95383e-21	1.00000
PAH3+H	2.14510e-24	1.00000	2.14510e-24	1.00000
rad59	1.05011e-24	1.00000	1.05011e-24	1.00000
rad50	4.66851e-25	1.00000	4.66851e-25	1.00000
rad19syn	1.12587e-29	1.00000	1.12587e-29	1.00000
rad54	3.67452e-33	1.00000	3.67452e-33	1.00000
PAH10+CH3	1.36196e-33	1.00000	1.36196e-33	1.00000
rad52	7.22707e-34	1.00000	7.22707e-34	1.00000
rad43	5.42460e-34	1.00000	5.42460e-34	1.00000
rad62	1.20339e-35	1.00000	1.20339e-35	1.00000
rad51	1.22431e-38	1.00000	1.22431e-38	1.00000
rad70	1.42855e-39	1.00000	1.42855e-39	1.00000
PhcycC3H3_A+H	9.68919e-40	1.00000	9.68919e-40	1.00000
rad55	4.65961e-40	1.00000	4.65961e-40	1.00000
rad65	2.13042e-42	1.00000	2.13042e-42	1.00000
rad58	4.58243e-43	1.00000	4.58243e-43	1.00000
PAH1+H	2.17459e-43	1.00000	2.17459e-43	1.00000
rad34	3.96108e-45	1.00000	3.96108e-45	1.00000
rad42	3.11841e-48	1.00000	3.11841e-48	1.00000
rad41	5.76775e-49	1.00000	5.76775e-49	1.00000
rad47	4.34625e-49	1.00000	4.34625e-49	1.00000

1.00000000 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.35697e-33 (1.00)	9.35697e-33 (1.00)
Formation of rad11	9.35644e-33 (1.000)	9.35644e-33 (1.000)
Formation of rad6	5.26139e-37 (5.62e-05)	5.26139e-37 (5.62e-05)
H-abstraction	1.44763e-44 (1.55e-12)	1.44763e-44 (1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.941351	0.941351	0.941351	0.941351
Indene+H	0.0570613	0.998412	0.0570613	0.998412
rad23	0.000788641	0.999201	0.000788641	0.999201
C2H2+PhCH2	0.000484404	0.999685	0.000484404	0.999685
rad7	0.000177868	0.999863	0.000177868	0.999863
rad11	6.08469e-05	0.999924	6.08469e-05	0.999924
rad2	3.45741e-05	0.999959	3.45741e-05	0.999959
rad45	2.49876e-05	0.999984	2.49876e-05	0.999984
rad3	2.81720e-06	0.999986	2.81720e-06	0.999986
PhCHCCH2+H	2.78297e-06	0.999989	2.78297e-06	0.999989
rad10	2.39813e-06	0.999992	2.39813e-06	0.999992
rad1	2.18913e-06	0.999994	2.18913e-06	0.999994
rad28	1.69660e-06	0.999996	1.69660e-06	0.999996
rad36	1.55511e-06	0.999997	1.55511e-06	0.999997
rad4	1.42490e-06	0.999998	1.42490e-06	0.999998
rad22	8.05333e-07	0.999999	8.05333e-07	0.999999
rad13	5.45445e-07	1.000000	5.45445e-07	1.000000
PhCCH+CH3	2.71952e-07	1.000000	2.71952e-07	1.000000
rad9	1.56729e-07	1.000000	1.56729e-07	1.000000
rad30	2.58771e-08	1.000000	2.58771e-08	1.000000
rad26	1.85337e-08	1.000000	1.85337e-08	1.000000
PhCCCH3+H	7.59956e-09	1.000000	7.59956e-09	1.000000
rad15	4.65099e-09	1.000000	4.65099e-09	1.000000
PAH9+H	3.38228e-09	1.000000	3.38228e-09	1.000000
Phenyl+Allene	2.04844e-09	1.000000	0.000000	1.000000
rad35	1.81785e-09	1.000000	1.81785e-09	1.000000
rad25	9.71927e-10	1.000000	9.71927e-10	1.000000
rad38	8.85505e-10	1.000000	8.85505e-10	1.000000
rad33	7.68432e-10	1.000000	7.68432e-10	1.000000
rad14	2.81489e-10	1.000000	2.81489e-10	1.000000
Ph+MeAc	8.10606e-11	1.000000	8.10606e-11	1.000000
rad8	6.98366e-11	1.000000	6.98366e-11	1.000000
rad27	2.59970e-11	1.000000	2.59970e-11	1.000000

rad46	5.29191e-12	1.00000	5.29191e-12	1.00000
Benzene+2-propynyl	1.54712e-12	1.00000	1.54712e-12	1.00000
PAH7+H	1.29648e-12	1.00000	1.29648e-12	1.00000
rad18	9.29669e-13	1.00000	9.29669e-13	1.00000
rad20	4.44156e-13	1.00000	4.44156e-13	1.00000
rad21	2.92527e-13	1.00000	2.92527e-13	1.00000
rad60syn	1.99911e-13	1.00000	1.99911e-13	1.00000
rad24	1.92535e-13	1.00000	1.92535e-13	1.00000
rad39	1.21848e-13	1.00000	1.21848e-13	1.00000
rad12	8.37620e-15	1.00000	8.37620e-15	1.00000
rad31	1.45823e-15	1.00000	1.45823e-15	1.00000
rad60anti	8.60828e-16	1.00000	8.60828e-16	1.00000
PhCH2CCH+H	1.06879e-16	1.00000	1.06879e-16	1.00000
rad37	2.59655e-19	1.00000	2.59655e-19	1.00000
rad5	9.43015e-21	1.00000	9.43015e-21	1.00000
PAH3+H	4.75672e-24	1.00000	4.75672e-24	1.00000
rad59	2.32524e-24	1.00000	2.32524e-24	1.00000
rad50	6.40121e-25	1.00000	6.40121e-25	1.00000
rad19syn	2.66247e-29	1.00000	2.66247e-29	1.00000
rad54	8.85905e-33	1.00000	8.85905e-33	1.00000
PAH10+CH3	4.48920e-33	1.00000	4.48920e-33	1.00000
rad52	1.71670e-33	1.00000	1.71670e-33	1.00000
rad43	1.42889e-33	1.00000	1.42889e-33	1.00000
rad62	3.00320e-35	1.00000	3.00320e-35	1.00000
rad51	3.00453e-38	1.00000	3.00453e-38	1.00000
rad70	3.51925e-39	1.00000	3.51925e-39	1.00000
PhcycC3H3_A+H	2.38706e-39	1.00000	2.38706e-39	1.00000
rad55	1.14801e-39	1.00000	1.14801e-39	1.00000
rad65	5.27269e-42	1.00000	5.27269e-42	1.00000
rad58	1.12904e-42	1.00000	1.12904e-42	1.00000
PAH1+H	5.69415e-43	1.00000	5.69415e-43	1.00000
rad34	9.62241e-45	1.00000	9.62241e-45	1.00000
rad42	7.40845e-48	1.00000	7.40846e-48	1.00000
rad41	1.36441e-48	1.00000	1.36441e-48	1.00000
rad47	7.28143e-49	1.00000	7.28143e-49	1.00000

1.00000000 Pa, 50.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	5.52690e-29	(1.00)	5.52690e-29	(1.00)
Formation of rad11	5.52459e-29	(1.000)	5.52459e-29	(1.000)
Formation of rad6	2.30840e-32	(0.000418)	2.30840e-32	(0.000418)
H-abstraction	3.35357e-38	(6.07e-10)	3.35357e-38	(6.07e-10)
species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.940842	0.940842	0.940842	0.940842
Indene+H	0.0579449	0.998787	0.0579449	0.998787
C2H2+PhCH2	0.000499102	0.999286	0.000499102	0.999286
rad23	0.000411511	0.999698	0.000411511	0.999698
rad7	0.000169550	0.999867	0.000169550	0.999867
rad11	5.55014e-05	0.999923	5.55014e-05	0.999923
rad2	4.74627e-05	0.999970	4.74627e-05	0.999970
rad45	1.22838e-05	0.999982	1.22838e-05	0.999982
rad10	3.32100e-06	0.999986	3.32100e-06	0.999986
rad1	3.01049e-06	0.999989	3.01049e-06	0.999989
PhCHCCH2+H	2.97155e-06	0.999992	2.97155e-06	0.999992
rad3	2.78329e-06	0.999994	2.78329e-06	0.999994
rad28	2.34567e-06	0.999997	2.34567e-06	0.999997
rad4	1.40837e-06	0.999998	1.40837e-06	0.999998
rad36	7.63887e-07	0.999999	7.63887e-07	0.999999
rad13	5.22118e-07	0.999999	5.22118e-07	0.999999
PhCCH+CH3	4.08816e-07	1.000000	4.08816e-07	1.000000
rad22	4.08230e-07	1.000000	4.08230e-07	1.000000
rad9	1.68883e-07	1.000000	1.68883e-07	1.000000
rad26	3.74426e-08	1.000000	3.74426e-08	1.000000
rad30	2.68977e-08	1.000000	2.68977e-08	1.000000
PhCCCH3+H	1.52331e-08	1.000000	1.52331e-08	1.000000
rad15	4.86647e-09	1.000000	4.86647e-09	1.000000
PAH9+H	3.90521e-09	1.000000	3.90521e-09	1.000000
Phenyl+Allene	3.42645e-09	1.000000	0.000000	1.000000
rad35	2.08383e-09	1.000000	2.08383e-09	1.000000
rad38	1.01928e-09	1.000000	1.01928e-09	1.000000
rad33	7.57733e-10	1.000000	7.57733e-10	1.000000
rad25	6.45345e-10	1.000000	6.45345e-10	1.000000
Benzene+2-propynyl	6.06773e-10	1.000000	6.06773e-10	1.000000
rad14	2.73762e-10	1.000000	2.73762e-10	1.000000
Ph+MeAc	1.79499e-10	1.000000	1.79499e-10	1.000000
rad8	1.32133e-10	1.000000	1.32133e-10	1.000000

rad27	3.44594e-11	1.00000	3.44594e-11	1.00000
rad46	6.32942e-12	1.00000	6.32942e-12	1.00000
PAH7+H	2.68417e-12	1.00000	2.68417e-12	1.00000
rad18	4.18389e-13	1.00000	4.18389e-13	1.00000
rad39	2.63476e-13	1.00000	2.63476e-13	1.00000
rad20	2.29809e-13	1.00000	2.29809e-13	1.00000
rad60syn	2.23305e-13	1.00000	2.23305e-13	1.00000
rad21	1.51343e-13	1.00000	1.51343e-13	1.00000
rad24	9.53315e-14	1.00000	9.53315e-14	1.00000
rad12	2.60649e-14	1.00000	2.60649e-14	1.00000
rad60anti	3.53208e-15	1.00000	3.53208e-15	1.00000
rad31	1.67560e-15	1.00000	1.67560e-15	1.00000
PhCH2CCH+H	2.49392e-16	1.00000	2.49392e-16	1.00000
rad37	1.04714e-18	1.00000	1.04714e-18	1.00000
rad5	2.95946e-20	1.00000	2.95946e-20	1.00000
PAH3+H	1.16840e-23	1.00000	1.16840e-23	1.00000
rad59	5.70081e-24	1.00000	5.70081e-24	1.00000
rad50	1.26941e-24	1.00000	1.26941e-24	1.00000
rad19syn	7.17590e-29	1.00000	7.17590e-29	1.00000
rad54	2.46316e-32	1.00000	2.46316e-32	1.00000
PAH10+CH3	1.49872e-32	1.00000	1.49872e-32	1.00000
rad52	4.63215e-33	1.00000	4.63215e-33	1.00000
rad43	4.21643e-33	1.00000	4.21643e-33	1.00000
rad62	8.64166e-35	1.00000	8.64166e-35	1.00000
rad51	8.53038e-38	1.00000	8.53038e-38	1.00000
rad70	1.02489e-38	1.00000	1.02489e-38	1.00000
PhcycC3H3_A+H	6.96732e-39	1.00000	6.96732e-39	1.00000
rad55	3.34807e-39	1.00000	3.34807e-39	1.00000
rad65	1.52956e-41	1.00000	1.52956e-41	1.00000
rad58	3.29981e-42	1.00000	3.29981e-42	1.00000
PAH1+H	1.72507e-42	1.00000	1.72507e-42	1.00000
rad34	2.82910e-44	1.00000	2.82910e-44	1.00000
rad42	2.15909e-47	1.00000	2.15909e-47	1.00000
rad41	3.97346e-48	1.00000	3.97346e-48	1.00000
rad47	1.64188e-48	1.00000	1.64188e-48	1.00000

1.00000000 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.83429e-26 (1.00)	1.83429e-26 (1.00)
Formation of rad11	1.83139e-26 (0.998)	1.83139e-26 (0.998)
Formation of rad6	2.90471e-29 (0.00158)	2.90471e-29 (0.00158)
H-abstraction	5.71259e-34 (3.11e-08)	5.71259e-34 (3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.940337	0.940337	0.940337	0.940337
Indene+H	0.0586126	0.998950	0.0586126	0.998950
C2H2+PhCH2	0.000515236	0.999465	0.000515236	0.999465
rad23	0.000230741	0.999696	0.000230741	0.999696
rad7	0.000163620	0.999859	0.000163620	0.999859
rad2	6.08883e-05	0.999920	6.08883e-05	0.999920
rad11	5.24702e-05	0.999973	5.24702e-05	0.999973
rad45	6.58978e-06	0.999979	6.58978e-06	0.999979
rad10	4.26533e-06	0.999983	4.26533e-06	0.999983
rad1	3.87040e-06	0.999987	3.87040e-06	0.999987
PhCHCCH2+H	3.19688e-06	0.999990	3.19688e-06	0.999990
rad28	3.06469e-06	0.999994	3.06469e-06	0.999994
rad3	2.78313e-06	0.999996	2.78313e-06	0.999996
rad4	1.40906e-06	0.999998	1.40906e-06	0.999998
PhCCH+CH3	5.76851e-07	0.999998	5.76851e-07	0.999998
rad13	5.06273e-07	0.999999	5.06273e-07	0.999999
rad36	4.09457e-07	0.999999	4.09457e-07	0.999999
rad22	2.25334e-07	0.999999	2.25334e-07	0.999999
rad9	1.83425e-07	1.000000	1.83425e-07	1.000000
rad26	6.56053e-08	1.000000	6.56053e-08	1.000000
Benzene+2-propynyl	3.11432e-08	1.000000	3.11432e-08	1.000000
rad30	2.80405e-08	1.000000	2.80405e-08	1.000000
PhCCCH3+H	2.70986e-08	1.000000	2.70986e-08	1.000000
Phenyl+Allene	5.52227e-09	1.000000	0.000000	1.000000
rad15	5.11136e-09	1.000000	5.11136e-09	1.000000
PAH9+H	4.36321e-09	1.000000	4.36321e-09	1.000000
rad35	2.31232e-09	1.000000	2.31232e-09	1.000000
rad38	1.13928e-09	1.000000	1.13928e-09	1.000000
rad33	7.51777e-10	1.000000	7.51777e-10	1.000000
rad25	5.11626e-10	1.000000	5.11626e-10	1.000000
Ph+MeAc	3.62562e-10	1.000000	3.62562e-10	1.000000
rad14	2.69875e-10	1.000000	2.69875e-10	1.000000
rad8	2.31243e-10	1.000000	2.31243e-10	1.000000

rad27	4.31323e-11	1.000000	4.31323e-11	1.000000
rad46	7.35525e-12	1.000000	7.35525e-12	1.000000
PAH7+H	5.08171e-12	1.000000	5.08171e-12	1.000000
rad39	5.26081e-13	1.000000	5.26081e-13	1.000000
rad60syn	2.60576e-13	1.000000	2.60576e-13	1.000000
rad18	2.29005e-13	1.000000	2.29005e-13	1.000000
rad20	1.37388e-13	1.000000	1.37388e-13	1.000000
rad21	9.03937e-14	1.000000	9.03937e-14	1.000000
rad12	6.86558e-14	1.000000	6.86558e-14	1.000000
rad24	5.15340e-14	1.000000	5.15340e-14	1.000000
rad60anti	9.94037e-15	1.000000	9.94037e-15	1.000000
rad31	1.92300e-15	1.000000	1.92300e-15	1.000000
PhCH2CCH+H	7.90676e-16	1.000000	7.90676e-16	1.000000
rad37	4.39907e-18	1.000000	4.39907e-18	1.000000
rad5	1.06344e-19	1.000000	1.06344e-19	1.000000
PAH3+H	3.57223e-23	1.000000	3.57223e-23	1.000000
rad59	1.73909e-23	1.000000	1.73909e-23	1.000000
rad50	3.49954e-24	1.000000	3.49954e-24	1.000000
rad19syn	2.45546e-28	1.000000	2.45546e-28	1.000000
rad54	8.76626e-32	1.000000	8.76626e-32	1.000000
PAH10+CH3	6.06143e-32	1.000000	6.06143e-32	1.000000
rad52	1.58138e-32	1.000000	1.58138e-32	1.000000
rad43	1.57991e-32	1.000000	1.57991e-32	1.000000
rad62	3.19459e-34	1.000000	3.19459e-34	1.000000
rad51	3.11071e-37	1.000000	3.11071e-37	1.000000
rad70	3.88737e-38	1.000000	3.88737e-38	1.000000
PhcycC3H3_A+H	2.65275e-38	1.000000	2.65275e-38	1.000000
rad55	1.27291e-38	1.000000	1.27291e-38	1.000000
rad65	5.74995e-41	1.000000	5.74995e-41	1.000000
rad58	1.25917e-41	1.000000	1.25917e-41	1.000000
PAH1+H	6.80165e-42	1.000000	6.80165e-42	1.000000
rad34	1.10175e-43	1.000000	1.10175e-43	1.000000
rad42	8.41617e-47	1.000000	8.41617e-47	1.000000
rad41	1.55136e-47	1.000000	1.55136e-47	1.000000
rad47	5.17919e-48	1.000000	5.17919e-48	1.000000

1.00000000 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17336e-24 (1.00)	1.17336e-24 (1.00)
Formation of rad11	1.16857e-24 (0.996)	1.16857e-24 (0.996)
Formation of rad6	4.79505e-27 (0.00409)	4.79505e-27 (0.00409)
H-abstraction	5.89821e-31 (5.03e-07)	5.89821e-31 (5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.939871	0.939871	0.939871	0.939871
Indene+H	0.0591475	0.999018	0.0591475	0.999018
C2H2+PhCH2	0.000532389	0.999550	0.000532389	0.999550
rad7	0.000159090	0.999709	0.000159090	0.999709
rad23	0.000137083	0.999847	0.000137083	0.999847
rad2	7.50637e-05	0.999922	7.50637e-05	0.999922
rad11	5.03653e-05	0.999972	5.03653e-05	0.999972
rad10	5.24979e-06	0.999977	5.24979e-06	0.999977
rad1	4.78337e-06	0.999982	4.78337e-06	0.999982
rad28	3.87556e-06	0.999986	3.87556e-06	0.999986
rad45	3.78105e-06	0.999990	3.78105e-06	0.999990
PhCHCCH2+H	3.45940e-06	0.999993	3.45940e-06	0.999993
rad3	2.80868e-06	0.999996	2.80868e-06	0.999996
rad4	1.42290e-06	0.999997	1.42290e-06	0.999997
PhCCH+CH3	7.87831e-07	0.999998	7.87831e-07	0.999998
Benzene+2-propynyl	5.02676e-07	0.999999	5.02676e-07	0.999999
rad13	4.94698e-07	0.999999	4.94698e-07	0.999999
rad36	2.34752e-07	0.999999	2.34753e-07	0.999999
rad9	2.00247e-07	1.000000	2.00247e-07	1.000000
rad22	1.32936e-07	1.000000	1.32936e-07	1.000000
rad26	1.06070e-07	1.000000	1.06070e-07	1.000000
PhCCCH3+H	4.51664e-08	1.000000	4.51664e-08	1.000000
rad30	2.92822e-08	1.000000	2.92822e-08	1.000000
Phenyl+Allene	8.52378e-09	1.000000	0.000000	1.000000
rad15	5.38149e-09	1.000000	5.38149e-09	1.000000
PAH9+H	4.79092e-09	1.000000	4.79092e-09	1.000000
rad35	2.52212e-09	1.000000	2.52212e-09	1.000000
rad38	1.25360e-09	1.000000	1.25360e-09	1.000000
rad33	7.48388e-10	1.000000	7.48388e-10	1.000000
Ph+MeAc	7.01355e-10	1.000000	7.01355e-10	1.000000
rad25	4.43880e-10	1.000000	4.43880e-10	1.000000
rad8	3.86209e-10	1.000000	3.86209e-10	1.000000
rad14	2.68927e-10	1.000000	2.68927e-10	1.000000

rad27	5.22079e-11	1.000000	5.22079e-11	1.000000
PAH7+H	9.23837e-12	1.000000	9.23837e-12	1.000000
rad46	8.41925e-12	1.000000	8.41925e-12	1.000000
rad39	1.01747e-12	1.000000	1.01747e-12	1.000000
rad60syn	3.11865e-13	1.000000	3.11865e-13	1.000000
rad12	1.67141e-13	1.000000	1.67141e-13	1.000000
rad18	1.42931e-13	1.000000	1.42931e-13	1.000000
rad20	9.16130e-14	1.000000	9.16130e-14	1.000000
rad21	6.02170e-14	1.000000	6.02170e-14	1.000000
rad24	2.98027e-14	1.000000	2.98027e-14	1.000000
rad60anti	2.11190e-14	1.000000	2.11190e-14	1.000000
PhCH2CCH+H	4.87482e-15	1.000000	4.87482e-15	1.000000
rad31	2.20338e-15	1.000000	2.20338e-15	1.000000
rad37	2.12350e-17	1.000000	2.12350e-17	1.000000
rad5	4.78049e-19	1.000000	4.78049e-19	1.000000
PAH3+H	1.54667e-22	1.000000	1.54667e-22	1.000000
rad59	7.52420e-23	1.000000	7.52420e-23	1.000000
rad50	1.47141e-23	1.000000	1.47141e-23	1.000000
rad19syn	1.18575e-27	1.000000	1.18575e-27	1.000000
rad54	4.42777e-31	1.000000	4.42777e-31	1.000000
PAH10+CH3	3.37595e-31	1.000000	3.37595e-31	1.000000
rad43	8.38363e-32	1.000000	8.38363e-32	1.000000
rad52	7.60289e-32	1.000000	7.60289e-32	1.000000
rad62	1.68265e-33	1.000000	1.68265e-33	1.000000
rad51	1.61427e-36	1.000000	1.61427e-36	1.000000
rad70	2.11810e-37	1.000000	2.11810e-37	1.000000
PhcycC3H3_A+H	1.45252e-37	1.000000	1.45252e-37	1.000000
rad55	6.95654e-38	1.000000	6.95654e-38	1.000000
rad65	3.09493e-40	1.000000	3.09493e-40	1.000000
rad58	6.91432e-41	1.000000	6.91432e-41	1.000000
PAH1+H	3.86606e-41	1.000000	3.86606e-41	1.000000
rad34	6.23870e-43	1.000000	6.23870e-43	1.000000
rad42	4.80479e-46	1.000000	4.80479e-46	1.000000
rad41	8.88734e-47	1.000000	8.88734e-47	1.000000
rad47	2.45521e-47	1.000000	2.45521e-47	1.000000

1.00000000 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.68112e-23 (1.00)	2.68112e-23 (1.00)
Formation of rad11	2.65890e-23 (0.992)	2.65890e-23 (0.992)
Formation of rad6	2.22189e-25 (0.00829)	2.22189e-25 (0.00829)
H-abstraction	1.05871e-28 (3.95e-06)	1.05871e-28 (3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.939459	0.939459	0.939459	0.939459
Indene+H	0.0595770	0.999036	0.0595770	0.999036
C2H2+PhCH2	0.000550361	0.999587	0.000550361	0.999587
rad7	0.000155467	0.999742	0.000155467	0.999742
rad2	9.02057e-05	0.999832	9.02057e-05	0.999832
rad23	8.55160e-05	0.999918	8.55160e-05	0.999918
rad11	4.87605e-05	0.999967	4.87605e-05	0.999967
rad10	6.29180e-06	0.999973	6.29180e-06	0.999973
rad1	5.76433e-06	0.999979	5.76433e-06	0.999979
rad28	4.80558e-06	0.999983	4.80558e-06	0.999983
Benzene+2-propynyl	3.94877e-06	0.999987	3.94877e-06	0.999987
PhCHCCH2+H	3.76441e-06	0.999991	3.76441e-06	0.999991
rad3	2.85519e-06	0.999994	2.85519e-06	0.999994
rad45	2.29248e-06	0.999996	2.29248e-06	0.999996
rad4	1.44750e-06	0.999998	1.44750e-06	0.999998
PhCCH+CH3	1.05897e-06	0.999999	1.05897e-06	0.999999
rad13	4.85846e-07	0.999999	4.85846e-07	0.999999
rad9	2.19455e-07	0.999999	2.19455e-07	0.999999
rad26	1.63374e-07	1.000000	1.63374e-07	1.000000
rad36	1.42235e-07	1.000000	1.42235e-07	1.000000
rad22	8.28995e-08	1.000000	8.28995e-08	1.000000
PhCCCH3+H	7.26075e-08	1.000000	7.26075e-08	1.000000
rad30	3.06148e-08	1.000000	3.06148e-08	1.000000
Phenyl+Allene	1.27115e-08	1.000000	0.000000	1.000000
rad15	5.67598e-09	1.000000	5.67598e-09	1.000000
PAH9+H	5.20779e-09	1.000000	5.20779e-09	1.000000
rad35	2.72348e-09	1.000000	2.72348e-09	1.000000
rad38	1.36694e-09	1.000000	1.36694e-09	1.000000
Ph+MeAc	1.33218e-09	1.000000	1.33218e-09	1.000000
rad33	7.46587e-10	1.000000	7.46587e-10	1.000000
rad8	6.28767e-10	1.000000	6.28767e-10	1.000000
rad25	4.04597e-10	1.000000	4.04597e-10	1.000000
rad14	2.70298e-10	1.000000	2.70298e-10	1.000000

rad27	6.18558e-11	1.00000	6.18558e-11	1.00000
PAH7+H	1.65791e-11	1.00000	1.65791e-11	1.00000
rad46	9.55910e-12	1.00000	9.55910e-12	1.00000
rad39	1.95599e-12	1.00000	1.95599e-12	1.00000
rad12	3.93305e-13	1.00000	3.93305e-13	1.00000
rad60syn	3.78313e-13	1.00000	3.78313e-13	1.00000
rad18	9.80774e-14	1.00000	9.80774e-14	1.00000
rad20	6.66723e-14	1.00000	6.66723e-14	1.00000
rad21	4.37963e-14	1.00000	4.37963e-14	1.00000
PhCH2CCH+H	4.05148e-14	1.00000	4.05148e-14	1.00000
rad60anti	3.77420e-14	1.00000	3.77420e-14	1.00000
rad24	1.82150e-14	1.00000	1.82150e-14	1.00000
rad31	2.52147e-15	1.00000	2.52147e-15	1.00000
rad37	1.14569e-16	1.00000	1.14569e-16	1.00000
rad5	2.61712e-18	1.00000	2.61712e-18	1.00000
PAH3+H	1.11450e-21	1.00000	1.11450e-21	1.00000
rad59	5.45561e-22	1.00000	5.45561e-22	1.00000
rad50	1.04573e-22	1.00000	1.04573e-22	1.00000
rad19syn	8.69003e-27	1.00000	8.69003e-27	1.00000
rad54	3.40696e-30	1.00000	3.40696e-30	1.00000
PAH10+CH3	2.78643e-30	1.00000	2.78643e-30	1.00000
rad43	6.74950e-31	1.00000	6.74950e-31	1.00000
rad52	5.54154e-31	1.00000	5.54154e-31	1.00000
rad62	1.35405e-32	1.00000	1.35405e-32	1.00000
rad51	1.27883e-35	1.00000	1.27883e-35	1.00000
rad70	1.77344e-36	1.00000	1.77344e-36	1.00000
PhcycC3H3_A+H	1.22316e-36	1.00000	1.22316e-36	1.00000
rad55	5.84477e-37	1.00000	5.84477e-37	1.00000
rad65	2.55415e-39	1.00000	2.55415e-39	1.00000
rad58	5.84182e-40	1.00000	5.84182e-40	1.00000
PAH1+H	3.39059e-40	1.00000	3.39059e-40	1.00000
rad34	5.47740e-42	1.00000	5.47740e-42	1.00000
rad42	4.27714e-45	1.00000	4.27714e-45	1.00000
rad41	7.95230e-46	1.00000	7.95230e-46	1.00000
rad47	1.84479e-46	1.00000	1.84479e-46	1.00000

1.00000000 Pa, 90.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.08379e-22	(1.00)	3.08379e-22	(1.00)
Formation of rad11	3.03962e-22	(0.986)	3.03962e-22	(0.986)
Formation of rad6	4.41076e-24	(0.0143)	4.41076e-24	(0.0143)
H-abstraction	5.92916e-27	(1.92e-05)	5.92916e-27	(1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.939097	0.939097	0.939098	0.939098
Indene+H	0.0599191	0.999016	0.0599191	0.999017
C2H2+PhCH2	0.000569200	0.999585	0.000569200	0.999586
rad7	0.000152477	0.999738	0.000152477	0.999739
rad2	0.000106537	0.999844	0.000106537	0.999845
rad23	5.56908e-05	0.999900	5.56908e-05	0.999901
rad11	4.74711e-05	0.999947	4.74711e-05	0.999948
Benzene+2-propynyl	1.92269e-05	0.999967	1.92269e-05	0.999968
rad10	7.40806e-06	0.999974	7.40806e-06	0.999975
rad1	6.82888e-06	0.999981	6.82888e-06	0.999982
rad28	5.88893e-06	0.999987	5.88893e-06	0.999988
PhCHCCH2+H	4.12300e-06	0.999991	4.12300e-06	0.999992
rad3	2.92019e-06	0.999994	2.92019e-06	0.999995
rad4	1.48164e-06	0.999995	1.48164e-06	0.999996
rad45	1.45760e-06	0.999997	1.45760e-06	0.999998
PhCCH+CH3	1.41520e-06	0.999998	1.41520e-06	0.999999
rad13	4.78861e-07	0.999999	4.78861e-07	1.000000
rad26	2.44115e-07	0.999999	2.44115e-07	1.000000
rad9	2.41375e-07	0.999999	2.41375e-07	1.000000
PhCCCH3+H	1.14462e-07	0.999999	1.14462e-07	1.000000
rad36	9.03858e-08	0.999999	9.03858e-08	1.000000
rad22	5.42580e-08	0.999999	5.42580e-08	1.000000
rad30	3.20469e-08	0.999999	3.20469e-08	1.000000
Phenyl+Allene	1.84825e-08	0.999999	0.000000	1.000000
rad15	5.99744e-09	0.999999	5.99744e-09	1.000000
PAH9+H	5.62809e-09	1.000000	5.62809e-09	1.000000
rad35	2.92358e-09	1.000000	2.92358e-09	1.000000
Ph+MeAc	2.51178e-09	1.000000	2.51178e-09	1.000000
rad38	1.48295e-09	1.000000	1.48295e-09	1.000000
rad8	1.01111e-09	1.000000	1.01111e-09	1.000000
rad33	7.45858e-10	1.000000	7.45858e-10	1.000000
rad25	3.79614e-10	1.000000	3.79614e-10	1.000000
rad14	2.73623e-10	1.000000	2.73623e-10	1.000000

rad27	7.22376e-11	1.000000	7.22376e-11	1.000000
PAH7+H	2.98149e-11	1.000000	2.98149e-11	1.000000
rad46	1.08132e-11	1.000000	1.08132e-11	1.000000
rad39	3.78187e-12	1.000000	3.78187e-12	1.000000
rad12	9.12770e-13	1.000000	9.12770e-13	1.000000
rad60syn	4.63191e-13	1.000000	4.63191e-13	1.000000
PhCH2CCH+H	2.70257e-13	1.000000	2.70257e-13	1.000000
rad18	7.22302e-14	1.000000	7.22302e-14	1.000000
rad60anti	6.06782e-14	1.000000	6.06782e-14	1.000000
rad20	5.20739e-14	1.000000	5.20739e-14	1.000000
rad21	3.42046e-14	1.000000	3.42046e-14	1.000000
rad24	1.16760e-14	1.000000	1.16760e-14	1.000000
rad31	2.88367e-15	1.000000	2.88367e-15	1.000000
rad37	6.20820e-16	1.000000	6.20820e-16	1.000000
rad5	1.53691e-17	1.000000	1.53691e-17	1.000000
PAH3+H	1.19859e-20	1.000000	1.19859e-20	1.000000
rad59	5.83867e-21	1.000000	5.83867e-21	1.000000
rad50	9.71684e-22	1.000000	9.71684e-22	1.000000
rad19syn	1.09935e-25	1.000000	1.09935e-25	1.000000
rad54	4.58738e-29	1.000000	4.58738e-29	1.000000
PAH10+CH3	3.78087e-29	1.000000	3.78087e-29	1.000000
rad43	9.25262e-30	1.000000	9.25262e-30	1.000000
rad52	7.02230e-30	1.000000	7.02230e-30	1.000000
rad62	1.89664e-31	1.000000	1.89664e-31	1.000000
rad51	1.77207e-34	1.000000	1.77207e-34	1.000000
rad70	2.60954e-35	1.000000	2.60954e-35	1.000000
PhcycC3H3_A+H	1.81130e-35	1.000000	1.81130e-35	1.000000
rad55	8.63309e-36	1.000000	8.63309e-36	1.000000
rad65	3.69863e-38	1.000000	3.69863e-38	1.000000
rad58	8.68253e-39	1.000000	8.68253e-39	1.000000
PAH1+H	5.24486e-39	1.000000	5.24486e-39	1.000000
rad34	8.50959e-41	1.000000	8.50959e-41	1.000000
rad42	6.76870e-44	1.000000	6.76870e-44	1.000000
rad41	1.26731e-44	1.000000	1.26731e-44	1.000000
rad47	2.49160e-45	1.000000	2.49160e-45	1.000000

1.00000000 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14498e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.938754	0.938754	0.938754	0.938754
Indene+H	0.0601943	0.998948	0.0601943	0.998948
C2H2+PhCH2	0.000589139	0.999537	0.000589139	0.999537
rad7	0.000149945	0.999687	0.000149945	0.999687
rad2	0.000124269	0.999812	0.000124269	0.999812
Benzene+2-propynyl	6.70630e-05	0.999879	6.70630e-05	0.999879
rad11	4.63986e-05	0.999925	4.63986e-05	0.999925
rad23	3.77195e-05	0.999963	3.77195e-05	0.999963
rad10	8.61384e-06	0.999971	8.61384e-06	0.999971
rad1	7.99231e-06	0.999979	7.99231e-06	0.999979
rad28	7.16714e-06	0.999987	7.16714e-06	0.999987
PhCHCCH2+H	4.55271e-06	0.999991	4.55271e-06	0.999991
rad3	3.00246e-06	0.999994	3.00246e-06	0.999994
PhCCH+CH3	1.89207e-06	0.999996	1.89207e-06	0.999996
rad4	1.52473e-06	0.999998	1.52473e-06	0.999998
rad45	9.67156e-07	0.999999	9.67156e-07	0.999999
rad13	4.73215e-07	0.999999	4.73215e-07	0.999999
rad26	3.57555e-07	0.999999	3.57555e-07	0.999999
rad9	2.66526e-07	1.000000	2.66526e-07	1.000000
PhCCCH3+H	1.78576e-07	1.000000	1.78576e-07	1.000000
rad36	5.99491e-08	1.000000	5.99491e-08	1.000000
rad22	3.70920e-08	1.000000	3.70920e-08	1.000000
rad30	3.35993e-08	1.000000	3.35993e-08	1.000000
Phenyl+Allene	2.63776e-08	1.000000	0.000000	1.000000
rad15	6.35119e-09	1.000000	6.35119e-09	1.000000
PAH9+H	6.06434e-09	1.000000	6.06434e-09	1.000000
Ph+MeAc	4.71227e-09	1.000000	4.71227e-09	1.000000
rad35	3.12850e-09	1.000000	3.12850e-09	1.000000
rad8	1.61728e-09	1.000000	1.61728e-09	1.000000
rad38	1.60498e-09	1.000000	1.60498e-09	1.000000
rad33	7.45887e-10	1.000000	7.45887e-10	1.000000
rad25	3.62627e-10	1.000000	3.62627e-10	1.000000
rad14	2.78684e-10	1.000000	2.78684e-10	1.000000

rad27	8.35007e-11	1.00000	8.35007e-11	1.000000
PAH7+H	5.40753e-11	1.00000	5.40753e-11	1.000000
rad46	1.22252e-11	1.00000	1.22252e-11	1.000000
rad39	7.37431e-12	1.00000	7.37431e-12	1.000000
rad12	2.10049e-12	1.00000	2.10049e-12	1.000000
PhCH2CCH+H	1.34479e-12	1.00000	1.34479e-12	1.000000
rad60syn	5.71928e-13	1.00000	5.71928e-13	1.000000
rad60anti	9.13794e-14	1.00000	9.13794e-14	1.000000
rad18	5.61360e-14	1.00000	5.61360e-14	1.000000
rad20	4.30415e-14	1.00000	4.30415e-14	1.000000
rad21	2.82869e-14	1.00000	2.82869e-14	1.000000
rad24	7.81137e-15	1.00000	7.81137e-15	1.000000
rad31	3.29761e-15	1.00000	3.29761e-15	1.000000
rad37	3.08879e-15	1.00000	3.08879e-15	1.000000
rad5	8.53185e-17	1.00000	8.53185e-17	1.000000
PAH3+H	1.20275e-19	1.00000	1.20275e-19	1.000000
rad59	5.70545e-20	1.00000	5.70545e-20	1.000000
rad50	7.95550e-21	1.00000	7.95550e-21	1.000000
rad19syn	2.51033e-24	1.00000	2.51033e-24	1.000000
rad54	1.34051e-27	1.00000	1.34051e-27	1.000000
PAH10+CH3	9.53662e-28	1.00000	9.53662e-28	1.000000
rad43	2.51107e-28	1.00000	2.51107e-28	1.000000
rad52	1.62448e-28	1.00000	1.62448e-28	1.000000
rad62	5.95894e-30	1.00000	5.95894e-30	1.000000
rad51	5.67424e-33	1.00000	5.67424e-33	1.000000
rad70	8.80030e-34	1.00000	8.80030e-34	1.000000
PhcycC3H3_A+H	6.15036e-34	1.00000	6.15036e-34	1.000000
rad55	2.92323e-34	1.00000	2.92323e-34	1.000000
rad65	1.22606e-36	1.00000	1.22606e-36	1.000000
rad58	2.95980e-37	1.00000	2.95980e-37	1.000000
PAH1+H	1.86399e-37	1.00000	1.86399e-37	1.000000
rad34	3.04628e-39	1.00000	3.04628e-39	1.000000
rad42	2.47821e-42	1.00000	2.47821e-42	1.000000
rad41	4.68241e-43	1.00000	4.68241e-43	1.000000
rad47	7.84586e-44	1.00000	7.84586e-44	1.000000

1.00000000 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06527e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44008e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.938374	0.938374	0.938374	0.938374
Indene+H	0.0604261	0.998800	0.0604261	0.998800
C2H2+PhCH2	0.000610529	0.999410	0.000610529	0.999410
Benzene+2-propynyl	0.000183695	0.999594	0.000183695	0.999594
rad7	0.000147752	0.999742	0.000147752	0.999742
rad2	0.000143583	0.999885	0.000143583	0.999885
rad11	4.54826e-05	0.999931	4.54826e-05	0.999931
rad23	2.65061e-05	0.999957	2.65061e-05	0.999957
rad10	9.92183e-06	0.999967	9.92183e-06	0.999967
rad1	9.26841e-06	0.999976	9.26841e-06	0.999976
rad28	8.68969e-06	0.999985	8.68969e-06	0.999985
PhCHCCH2+H	5.07906e-06	0.999990	5.07906e-06	0.999990
rad3	3.10132e-06	0.999993	3.10132e-06	0.999993
PhCCH+CH3	2.53972e-06	0.999996	2.53972e-06	0.999996
rad4	1.57647e-06	0.999997	1.57647e-06	0.999997
rad45	6.67582e-07	0.999998	6.67582e-07	0.999998
rad26	5.16288e-07	0.999999	5.16288e-07	0.999999
rad13	4.68553e-07	0.999999	4.68553e-07	0.999999
rad9	2.95607e-07	0.999999	2.95607e-07	0.999999
PhCCCH3+H	2.76939e-07	1.000000	2.76939e-07	1.000000
rad36	4.13704e-08	1.000000	4.13704e-08	1.000000
Phenyl+Allene	3.71249e-08	1.000000	0.000000	1.000000
rad30	3.53018e-08	1.000000	3.53018e-08	1.000000
rad22	2.63918e-08	1.000000	2.63918e-08	1.000000
Ph+MeAc	8.78277e-09	1.000000	8.78277e-09	1.000000
rad15	6.74462e-09	1.000000	6.74462e-09	1.000000
PAH9+H	6.52882e-09	1.000000	6.52882e-09	1.000000
rad35	3.34393e-09	1.000000	3.34393e-09	1.000000
rad8	2.58022e-09	1.000000	2.58022e-09	1.000000
rad38	1.73647e-09	1.000000	1.73647e-09	1.000000
rad33	7.46454e-10	1.000000	7.46454e-10	1.000000
rad25	3.50483e-10	1.000000	3.50483e-10	1.000000
rad14	2.85349e-10	1.000000	2.85349e-10	1.000000

PAH7+H	9.90414e-11	1.000000	9.90414e-11	1.000000
rad27	9.57696e-11	1.000000	9.57696e-11	1.000000
rad39	1.44787e-11	1.000000	1.44787e-11	1.000000
rad46	1.38470e-11	1.000000	1.38470e-11	1.000000
PhCH2CCH+H	5.24467e-12	1.000000	5.24467e-12	1.000000
rad12	4.78482e-12	1.000000	4.78482e-12	1.000000
rad60syn	7.12140e-13	1.000000	7.12140e-13	1.000000
rad60anti	1.32131e-13	1.000000	1.32131e-13	1.000000
rad18	4.54836e-14	1.000000	4.54836e-14	1.000000
rad20	3.72084e-14	1.000000	3.72084e-14	1.000000
rad21	2.44798e-14	1.000000	2.44799e-14	1.000000
rad37	1.35741e-14	1.000000	1.35741e-14	1.000000
rad24	5.43701e-15	1.000000	5.43701e-15	1.000000
rad31	3.77184e-15	1.000000	3.77184e-15	1.000000
rad5	4.19418e-16	1.000000	4.19418e-16	1.000000
PAH3+H	9.15220e-19	1.000000	9.15220e-19	1.000000
rad59	4.18126e-19	1.000000	4.18126e-19	1.000000
rad50	5.05386e-20	1.000000	5.05386e-20	1.000000
rad19syn	6.63460e-23	1.000000	6.63460e-23	1.000000
rad54	5.84954e-26	1.000000	5.84954e-26	1.000000
PAH10+CH3	3.43312e-26	1.000000	3.43312e-26	1.000000
rad43	9.86311e-27	1.000000	9.86311e-27	1.000000
rad52	4.26286e-27	1.000000	4.26286e-27	1.000000
rad62	3.30413e-28	1.000000	3.30413e-28	1.000000
rad51	3.29848e-31	1.000000	3.29848e-31	1.000000
rad70	6.96971e-32	1.000000	6.96971e-32	1.000000
PhcycC3H3_A+H	4.90643e-32	1.000000	4.90643e-32	1.000000
rad55	2.32502e-32	1.000000	2.32502e-32	1.000000
rad65	1.00760e-34	1.000000	1.00760e-34	1.000000
rad58	2.37094e-35	1.000000	2.37094e-35	1.000000
PAH1+H	1.55669e-35	1.000000	1.55669e-35	1.000000
rad34	2.57209e-37	1.000000	2.57209e-37	1.000000
rad42	2.14752e-40	1.000000	2.14752e-40	1.000000
rad41	4.10364e-41	1.000000	4.10364e-41	1.000000
rad47	5.87983e-42	1.000000	5.87983e-42	1.000000

1.00000000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.937883	0.937883	0.937883	0.937883
Indene+H	0.0606397	0.998523	0.0606397	0.998523
C2H2+PhCH2	0.000633807	0.999156	0.000633807	0.999156
Benzene+2-propynyl	0.000420064	0.999576	0.000420064	0.999576
rad2	0.000164614	0.999741	0.000164614	0.999741
rad7	0.000145812	0.999887	0.000145812	0.999887
rad11	4.46823e-05	0.999932	4.46823e-05	0.999932
rad23	1.92929e-05	0.999951	1.92929e-05	0.999951
rad10	1.13413e-05	0.999962	1.13413e-05	0.999962
rad1	1.06685e-05	0.999973	1.06685e-05	0.999973
rad28	1.05151e-05	0.999983	1.05151e-05	0.999983
PhCHCCH2+H	5.73814e-06	0.999989	5.73814e-06	0.999989
PhCCH+CH3	3.42880e-06	0.999993	3.42880e-06	0.999993
rad3	3.21627e-06	0.999996	3.21627e-06	0.999996
rad4	1.63664e-06	0.999997	1.63664e-06	0.999997
rad26	7.36928e-07	0.999998	7.36928e-07	0.999998
rad45	4.78305e-07	0.999999	4.78305e-07	0.999999
rad13	4.64616e-07	0.999999	4.64616e-07	0.999999
PhCCCH3+H	4.27592e-07	1.000000	4.27592e-07	1.000000
rad9	3.29508e-07	1.000000	3.29508e-07	1.000000
Phenyl+Allene	5.17074e-08	1.000000	0.000000	1.000000
rad30	3.71912e-08	1.000000	3.71912e-08	1.000000
rad36	2.96394e-08	1.000000	2.96394e-08	1.000000
rad22	1.94877e-08	1.000000	1.94877e-08	1.000000
Ph+MeAc	1.62193e-08	1.000000	1.62193e-08	1.000000
rad15	7.18695e-09	1.000000	7.18695e-09	1.000000
PAH9+H	7.03431e-09	1.000000	7.03431e-09	1.000000
rad8	4.10702e-09	1.000000	4.10702e-09	1.000000
rad35	3.57565e-09	1.000000	3.57565e-09	1.000000
rad38	1.88112e-09	1.000000	1.88112e-09	1.000000
rad33	7.47387e-10	1.000000	7.47387e-10	1.000000
rad25	3.41445e-10	1.000000	3.41445e-10	1.000000
rad14	2.93514e-10	1.000000	2.93514e-10	1.000000

PAH7+H	1.82985e-10	1.00000	1.82985e-10	1.000000
rad27	1.09138e-10	1.00000	1.09138e-10	1.000000
rad39	2.85475e-11	1.00000	2.85475e-11	1.000000
PhCH2CCH+H	1.69309e-11	1.00000	1.69309e-11	1.000000
rad46	1.57422e-11	1.00000	1.57422e-11	1.000000
rad12	1.07454e-11	1.00000	1.07454e-11	1.000000
rad60syn	8.94044e-13	1.00000	8.94044e-13	1.000000
rad60anti	1.86298e-13	1.00000	1.86298e-13	1.000000
rad37	5.24663e-14	1.00000	5.24663e-14	1.000000
rad18	3.80797e-14	1.00000	3.80797e-14	1.000000
rad20	3.33207e-14	1.00000	3.33207e-14	1.000000
rad21	2.19557e-14	1.00000	2.19557e-14	1.000000
rad31	4.31564e-15	1.00000	4.31564e-15	1.000000
rad24	3.92863e-15	1.00000	3.92863e-15	1.000000
rad5	1.79706e-15	1.00000	1.79706e-15	1.000000
PAH3+H	5.27759e-18	1.00000	5.27759e-18	1.000000
rad59	2.31227e-18	1.00000	2.31227e-18	1.000000
rad50	2.52363e-19	1.00000	2.52363e-19	1.000000
rad19syn	1.36783e-21	1.00000	1.36783e-21	1.000000
rad54	2.05816e-24	1.00000	2.05816e-24	1.000000
PAH10+CH3	1.09189e-24	1.00000	1.09189e-24	1.000000
rad43	3.28540e-25	1.00000	3.28540e-25	1.000000
rad52	8.52841e-26	1.00000	8.52841e-26	1.000000
rad62	1.59870e-26	1.00000	1.59870e-26	1.000000
rad51	1.74431e-29	1.00000	1.74431e-29	1.000000
rad70	9.56410e-30	1.00000	9.56410e-30	1.000000
PhcycC3H3_A+H	7.11117e-30	1.00000	7.11117e-30	1.000000
rad55	3.38301e-30	1.00000	3.38301e-30	1.000000
rad65	9.27972e-33	1.00000	9.27972e-33	1.000000
rad58	3.58486e-33	1.00000	3.58486e-33	1.000000
PAH1+H	2.21726e-33	1.00000	2.21726e-33	1.000000
rad34	3.72926e-35	1.00000	3.72926e-35	1.000000
rad42	3.20270e-38	1.00000	3.20270e-38	1.000000
rad41	6.19329e-39	1.00000	6.19329e-39	1.000000
rad47	7.61267e-40	1.00000	7.61267e-40	1.000000

1.00000000 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.33719e-19 (1.00)	1.33719e-19 (1.00)
Formation of rad11	1.26517e-19 (0.946)	1.26517e-19 (0.946)
Formation of rad6	7.08974e-21 (0.0530)	7.08974e-21 (0.0530)
H-abstraction	1.11864e-22 (0.000837)	1.11864e-22 (0.000837)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.937195	0.937195	0.937195	0.937195
Indene+H	0.0608611	0.998056	0.0608611	0.998056
Benzene+2-propynyl	0.000836559	0.998893	0.000836559	0.998893
C2H2+PhCH2	0.000659480	0.999553	0.000659480	0.999553
rad2	0.000187441	0.999740	0.000187441	0.999740
rad7	0.000144057	0.999884	0.000144057	0.999884
rad11	4.39684e-05	0.999928	4.39684e-05	0.999928
rad23	1.45237e-05	0.999942	1.45237e-05	0.999942
rad10	1.28775e-05	0.999955	1.28775e-05	0.999955
rad28	1.27127e-05	0.999968	1.27127e-05	0.999968
rad1	1.22008e-05	0.999980	1.22008e-05	0.999980
PhCHCCH2+H	6.58062e-06	0.999987	6.58062e-06	0.999987
PhCCH+CH3	4.65886e-06	0.999992	4.65886e-06	0.999992
rad3	3.34673e-06	0.999995	3.34673e-06	0.999995
rad4	1.70501e-06	0.999997	1.70501e-06	0.999997
rad26	1.04075e-06	0.999998	1.04075e-06	0.999998
PhCCCH3+H	6.57324e-07	0.999998	6.57324e-07	0.999998
rad13	4.61208e-07	0.999999	4.61208e-07	0.999999
rad9	3.69355e-07	0.999999	3.69355e-07	0.999999
rad45	3.55058e-07	0.999999	3.55058e-07	0.999999
Phenyl+Allene	7.14630e-08	1.000000	0.000000	0.999999
rad30	3.93113e-08	1.000000	3.93113e-08	1.000000
Ph+MeAc	2.96042e-08	1.000000	2.96042e-08	1.000000
rad36	2.20054e-08	1.000000	2.20054e-08	1.000000
rad22	1.48923e-08	1.000000	1.48923e-08	1.000000
rad15	7.68936e-09	1.000000	7.68936e-09	1.000000
PAH9+H	7.59493e-09	1.000000	7.59493e-09	1.000000
rad8	6.51580e-09	1.000000	6.51580e-09	1.000000
rad35	3.82982e-09	1.000000	3.82982e-09	1.000000
rad38	2.04311e-09	1.000000	2.04311e-09	1.000000
rad33	7.48545e-10	1.000000	7.48545e-10	1.000000
PAH7+H	3.40375e-10	1.000000	3.40375e-10	1.000000
rad25	3.34485e-10	1.000000	3.34485e-10	1.000000

rad14	3.03090e-10	1.000000	3.03090e-10	1.000000
rad27	1.23661e-10	1.000000	1.23661e-10	1.000000
rad39	5.63798e-11	1.000000	5.63798e-11	1.000000
PhCH2CCH+H	4.72415e-11	1.000000	4.72415e-11	1.000000
rad12	2.36841e-11	1.000000	2.36841e-11	1.000000
rad46	1.79908e-11	1.000000	1.79908e-11	1.000000
rad60syn	1.13130e-12	1.000000	1.13130e-12	1.000000
rad60anti	2.58673e-13	1.000000	2.58673e-13	1.000000
rad37	1.80190e-13	1.000000	1.80190e-13	1.000000
rad18	3.27262e-14	1.000000	3.27262e-14	1.000000
rad20	3.06762e-14	1.000000	3.06762e-14	1.000000
rad21	2.02513e-14	1.000000	2.02513e-14	1.000000
rad5	6.75808e-15	1.000000	6.75808e-15	1.000000
rad31	4.93894e-15	1.000000	4.93894e-15	1.000000
rad24	2.94157e-15	1.000000	2.94157e-15	1.000000
PAH3+H	2.41292e-17	1.000000	2.41293e-17	1.000000
rad59	1.01255e-17	1.000000	1.01255e-17	1.000000
rad50	1.03277e-18	1.000000	1.03277e-18	1.000000
rad19syn	2.00776e-20	1.000000	2.00776e-20	1.000000
rad54	4.87175e-23	1.000000	4.87175e-23	1.000000
PAH10+CH3	2.49712e-23	1.000000	2.49712e-23	1.000000
rad43	7.62415e-24	1.000000	7.62415e-24	1.000000
rad52	1.20255e-24	1.000000	1.20255e-24	1.000000
rad62	5.05707e-25	1.000000	5.05707e-25	1.000000
rad70	7.08972e-28	1.000000	7.08972e-28	1.000000
PhcycC3H3_A+H	5.91343e-28	1.000000	5.91343e-28	1.000000
rad51	5.75856e-28	1.000000	5.75856e-28	1.000000
rad55	2.53860e-28	1.000000	2.53860e-28	1.000000
rad65	5.44377e-31	1.000000	5.44377e-31	1.000000
PAH1+H	3.43502e-31	1.000000	3.43502e-31	1.000000
rad58	3.28799e-31	1.000000	3.28799e-31	1.000000
rad34	5.96120e-33	1.000000	5.96120e-33	1.000000
rad42	5.26504e-36	1.000000	5.26504e-36	1.000000
rad41	1.02689e-36	1.000000	1.02689e-36	1.000000
rad47	1.24586e-37	1.000000	1.24586e-37	1.000000

1.00000000 Pa, 140.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.59582e-19	(1.00)	3.59582e-19	(1.00)
Formation of rad11	3.35703e-19	(0.934)	3.35703e-19	(0.934)
Formation of rad6	2.33415e-20	(0.0649)	2.33415e-20	(0.0649)
H-abstraction	5.37685e-22	(0.00150)	5.37685e-22	(0.00150)

species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.936225	0.936225	0.936225	0.936225
Indene+H	0.0611160	0.997341	0.0611160	0.997341
Benzene+2-propynyl	0.00149531	0.998836	0.00149531	0.998836
C2H2+PhCH2	0.000688134	0.999524	0.000688134	0.999524
rad2	0.000212076	0.999736	0.000212076	0.999736
rad7	0.000142438	0.999879	0.000142438	0.999879
rad11	4.33186e-05	0.999922	4.33186e-05	0.999922
rad28	1.53643e-05	0.999938	1.53643e-05	0.999938
rad10	1.45310e-05	0.999952	1.45310e-05	0.999952
rad1	1.38697e-05	0.999966	1.38697e-05	0.999966
rad23	1.12900e-05	0.999977	1.12900e-05	0.999977
PhCHCCH2+H	7.67743e-06	0.999985	7.67743e-06	0.999985
PhCCH+CH3	6.36996e-06	0.999991	6.36996e-06	0.999991
rad3	3.49188e-06	0.999995	3.49188e-06	0.999995
rad4	1.78124e-06	0.999997	1.78124e-06	0.999997
rad26	1.45408e-06	0.999998	1.45408e-06	0.999998
PhCCCH3+H	1.00534e-06	0.999999	1.00534e-06	0.999999
rad13	4.58175e-07	1.000000	4.58175e-07	1.000000
rad9	4.16573e-07	1.000000	4.16573e-07	1.000000
rad45	2.72561e-07	1.000000	2.72561e-07	1.000000
Phenyl+Allene	9.82307e-08	1.000000	0.000000	1.000000
Ph+MeAc	5.33001e-08	1.000000	5.33001e-08	1.000000
rad30	4.17146e-08	1.000000	4.17146e-08	1.000000
rad36	1.68986e-08	1.000000	1.68986e-08	1.000000
rad22	1.17444e-08	1.000000	1.17444e-08	1.000000
rad8	1.02880e-08	1.000000	1.02880e-08	1.000000
rad15	8.26544e-09	1.000000	8.26544e-09	1.000000
PAH9+H	8.22689e-09	1.000000	8.22689e-09	1.000000
rad35	4.11339e-09	1.000000	4.11339e-09	1.000000
rad38	2.22734e-09	1.000000	2.22734e-09	1.000000
rad33	7.49807e-10	1.000000	7.49807e-10	1.000000
PAH7+H	6.36028e-10	1.000000	6.36028e-10	1.000000
rad25	3.28957e-10	1.000000	3.28957e-10	1.000000

rad14	3.13982e-10	1.00000	3.13982e-10	1.00000
rad27	1.39357e-10	1.00000	1.39357e-10	1.00000
PhCH2CCH+H	1.17706e-10	1.00000	1.17706e-10	1.00000
rad39	1.11272e-10	1.00000	1.11272e-10	1.00000
rad12	5.10262e-11	1.00000	5.10262e-11	1.00000
rad46	2.06954e-11	1.00000	2.06954e-11	1.00000
rad60syn	1.44241e-12	1.00000	1.44241e-12	1.00000
rad37	5.57572e-13	1.00000	5.57572e-13	1.00000
rad60anti	3.56001e-13	1.00000	3.56001e-13	1.00000
rad20	2.88634e-14	1.00000	2.88634e-14	1.00000
rad18	2.87287e-14	1.00000	2.87287e-14	1.00000
rad5	2.26258e-14	1.00000	2.26258e-14	1.00000
rad21	1.90956e-14	1.00000	1.90956e-14	1.00000
rad31	5.65242e-15	1.00000	5.65242e-15	1.00000
rad24	2.27801e-15	1.00000	2.27801e-15	1.00000
PAH3+H	9.15525e-17	1.00000	9.15525e-17	1.00000
rad59	3.68026e-17	1.00000	3.68026e-17	1.00000
rad50	3.60587e-18	1.00000	3.60588e-18	1.00000
rad19syn	2.14694e-19	1.00000	2.14694e-19	1.00000
rad54	7.89121e-22	1.00000	7.89121e-22	1.00000
PAH10+CH3	4.03973e-22	1.00000	4.03974e-22	1.00000
rad43	1.23060e-22	1.00000	1.23060e-22	1.00000
rad52	1.23223e-23	1.00000	1.23223e-23	1.00000
rad62	1.05712e-23	1.00000	1.05712e-23	1.00000
rad70	2.95180e-26	1.00000	2.95180e-26	1.00000
PhcycC3H3_A+H	2.73533e-26	1.00000	2.73533e-26	1.00000
rad51	1.24127e-26	1.00000	1.24127e-26	1.00000
rad55	1.07659e-26	1.00000	1.07659e-26	1.00000
PAH1+H	5.87302e-29	1.00000	5.87302e-29	1.00000
rad65	1.81395e-29	1.00000	1.81395e-29	1.00000
rad58	1.69001e-29	1.00000	1.69001e-29	1.00000
rad34	1.70833e-30	1.00000	1.70833e-30	1.00000
rad42	1.65304e-33	1.00000	1.65304e-33	1.00000
rad41	3.18671e-34	1.00000	3.18671e-34	1.00000
rad47	7.73515e-36	1.00000	7.73515e-36	1.00000

1.00000000 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.51464e-19 (1.00)	8.51464e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83711e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56651e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.934888	0.934888	0.934888	0.934888
Indene+H	0.0614299	0.996317	0.0614299	0.996317
Benzene+2-propynyl	0.00245244	0.998770	0.00245244	0.998770
C2H2+PhCH2	0.000720453	0.999490	0.000720453	0.999490
rad2	0.000238461	0.999729	0.000238461	0.999729
rad7	0.000140911	0.999870	0.000140911	0.999870
rad11	4.27162e-05	0.999912	4.27162e-05	0.999912
rad28	1.85665e-05	0.999931	1.85665e-05	0.999931
rad10	1.62978e-05	0.999947	1.62978e-05	0.999947
rad1	1.56756e-05	0.999963	1.56756e-05	0.999963
PhCHCCH2+H	9.12722e-06	0.999972	9.12722e-06	0.999972
rad23	9.04427e-06	0.999981	9.04427e-06	0.999981
PhCCH+CH3	8.75829e-06	0.999990	8.75829e-06	0.999990
rad3	3.65060e-06	0.999994	3.65060e-06	0.999994
rad26	2.00836e-06	0.999996	2.00836e-06	0.999996
rad4	1.86482e-06	0.999997	1.86482e-06	0.999997
PhCCCH3+H	1.52818e-06	0.999999	1.52818e-06	0.999999
rad9	4.72991e-07	0.999999	4.72991e-07	0.999999
rad13	4.55397e-07	1.000000	4.55397e-07	1.000000
rad45	2.15893e-07	1.00000	2.15893e-07	1.00000
Phenyl+Allene	1.34561e-07	1.00000	0.00000	1.00000
Ph+MeAc	9.45106e-08	1.00000	9.45106e-08	1.00000
rad30	4.44643e-08	1.00000	4.44643e-08	1.00000
rad8	1.61401e-08	1.00000	1.61401e-08	1.00000
rad36	1.33933e-08	1.00000	1.33933e-08	1.00000
rad22	9.52892e-09	1.00000	9.52892e-09	1.00000
PAH9+H	8.94956e-09	1.00000	8.94956e-09	1.00000
rad15	8.93189e-09	1.00000	8.93189e-09	1.00000
rad35	4.43444e-09	1.00000	4.43444e-09	1.00000
rad38	2.43978e-09	1.00000	2.43978e-09	1.00000
PAH7+H	1.19091e-09	1.00000	1.19091e-09	1.00000
rad33	7.51073e-10	1.00000	7.51073e-10	1.00000
rad14	3.26073e-10	1.00000	3.26073e-10	1.00000

rad25	3.24433e-10	1.00000	3.24433e-10	1.00000
PhCH2CCH+H	2.68371e-10	1.00000	2.68371e-10	1.00000
rad39	2.18937e-10	1.00000	2.18938e-10	1.00000
rad27	1.56194e-10	1.00000	1.56194e-10	1.00000
rad12	1.07077e-10	1.00000	1.07077e-10	1.00000
rad46	2.39903e-11	1.00000	2.39903e-11	1.00000
rad60syn	1.85275e-12	1.00000	1.85275e-12	1.00000
rad37	1.57523e-12	1.00000	1.57523e-12	1.00000
rad60anti	4.87766e-13	1.00000	4.87766e-13	1.00000
rad5	6.84544e-14	1.00000	6.84545e-14	1.00000
rad20	2.76319e-14	1.00000	2.76319e-14	1.00000
rad18	2.56643e-14	1.00000	2.56643e-14	1.00000
rad21	1.83240e-14	1.00000	1.83240e-14	1.00000
rad31	6.46751e-15	1.00000	6.46751e-15	1.00000
rad24	1.82064e-15	1.00000	1.82064e-15	1.00000
PAH3+H	2.99424e-16	1.00000	2.99424e-16	1.00000
rad59	1.15397e-16	1.00000	1.15397e-16	1.00000
rad50	1.11029e-17	1.00000	1.11029e-17	1.00000
rad19syn	1.74977e-18	1.00000	1.74977e-18	1.00000
rad54	9.21448e-21	1.00000	9.21448e-21	1.00000
PAH10+CH3	4.78613e-21	1.00000	4.78613e-21	1.00000
rad43	1.44159e-21	1.00000	1.44159e-21	1.00000
rad62	1.54182e-22	1.00000	1.54182e-22	1.00000
rad52	9.63872e-23	1.00000	9.63872e-23	1.00000
PhcycC3H3_A+H	7.36648e-25	1.00000	7.36648e-25	1.00000
rad70	7.32903e-25	1.00000	7.32903e-25	1.00000
rad55	2.73348e-25	1.00000	2.73348e-25	1.00000
rad51	1.86169e-25	1.00000	1.86169e-25	1.00000
PAH1+H	2.76603e-27	1.00000	2.76603e-27	1.00000
rad58	4.83601e-28	1.00000	4.83601e-28	1.00000
rad65	3.88125e-28	1.00000	3.88125e-28	1.00000
rad34	1.02035e-28	1.00000	1.02035e-28	1.00000
rad42	3.81283e-31	1.00000	3.81283e-31	1.00000
rad41	8.30159e-32	1.00000	8.30159e-32	1.00000
rad47	2.34064e-34	1.00000	2.34064e-34	1.00000

1.00000000 Pa, 160.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.81800e-18	(1.00)	1.81800e-18	(1.00)
Formation of rad11	1.64862e-18	(0.907)	1.64862e-18	(0.907)
Formation of rad6	1.62558e-19	(0.0894)	1.62558e-19	(0.0894)
H-abstraction	6.82130e-21	(0.00375)	6.82130e-21	(0.00375)
species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.933113	0.933113	0.933113	0.933113
Indene+H	0.0618291	0.994942	0.0618291	0.994942
Benzene+2-propynyl	0.00375209	0.998694	0.00375209	0.998694
C2H2+PhCH2	0.000757243	0.999451	0.000757243	0.999451
rad2	0.000266460	0.999718	0.000266461	0.999718
rad7	0.000139444	0.999857	0.000139444	0.999857
rad11	4.21481e-05	0.999899	4.21481e-05	0.999899
rad28	2.24315e-05	0.999922	2.24315e-05	0.999922
rad10	1.81686e-05	0.999940	1.81686e-05	0.999940
rad1	1.76143e-05	0.999957	1.76143e-05	0.999957
PhCCH+CH3	1.20966e-05	0.999970	1.20966e-05	0.999970
PhCHCCH2+H	1.10661e-05	0.999981	1.10661e-05	0.999981
rad23	7.44838e-06	0.999988	7.44838e-06	0.999988
rad3	3.82137e-06	0.999992	3.82137e-06	0.999992
rad26	2.73949e-06	0.999995	2.73949e-06	0.999995
PhCCCH3+H	2.30598e-06	0.999997	2.30598e-06	0.999997
rad4	1.95505e-06	0.999999	1.95505e-06	0.999999
rad9	5.40973e-07	0.999999	5.40973e-07	0.999999
rad13	4.52777e-07	1.000000	4.52777e-07	1.000000
Phenyl+Allene	1.84021e-07	1.00000	0.00000	1.00000
rad45	1.75995e-07	1.00000	1.75995e-07	1.00000
Ph+MeAc	1.64852e-07	1.00000	1.64853e-07	1.00000
rad30	4.76374e-08	1.00000	4.76374e-08	1.00000
rad8	2.51207e-08	1.00000	2.51207e-08	1.00000
rad36	1.09275e-08	1.00000	1.09275e-08	1.00000
PAH9+H	9.78671e-09	1.00000	9.78671e-09	1.00000
rad15	9.70948e-09	1.00000	9.70948e-09	1.00000
rad22	7.92910e-09	1.00000	7.92910e-09	1.00000
rad35	4.80269e-09	1.00000	4.80269e-09	1.00000
rad38	2.68783e-09	1.00000	2.68783e-09	1.00000
PAH7+H	2.22806e-09	1.00000	2.22806e-09	1.00000
rad33	7.52257e-10	1.00000	7.52257e-10	1.00000
PhCH2CCH+H	5.70451e-10	1.00000	5.70451e-10	1.00000

rad39	4.28300e-10	1.00000	4.28300e-10	1.00000
rad14	3.39227e-10	1.00000	3.39227e-10	1.00000
rad25	3.20621e-10	1.00000	3.20621e-10	1.00000
rad12	2.18243e-10	1.00000	2.18243e-10	1.00000
rad27	1.74096e-10	1.00000	1.74096e-10	1.00000
rad46	2.80544e-11	1.00000	2.80544e-11	1.00000
rad37	4.10947e-12	1.00000	4.10947e-12	1.00000
rad60syn	2.39755e-12	1.00000	2.39755e-12	1.00000
rad60anti	6.67387e-13	1.00000	6.67387e-13	1.00000
rad5	1.89699e-13	1.00000	1.89699e-13	1.00000
rad20	2.68242e-14	1.00000	2.68242e-14	1.00000
rad18	2.32644e-14	1.00000	2.32644e-14	1.00000
rad21	1.78332e-14	1.00000	1.78332e-14	1.00000
rad31	7.39677e-15	1.00000	7.39677e-15	1.00000
rad24	1.49784e-15	1.00000	1.49784e-15	1.00000
PAH3+H	8.69924e-16	1.00000	8.69924e-16	1.00000
rad59	3.21820e-16	1.00000	3.21820e-16	1.00000
rad50	3.09486e-17	1.00000	3.09486e-17	1.00000
rad19syn	1.13528e-17	1.00000	1.13528e-17	1.00000
rad54	8.17233e-20	1.00000	8.17233e-20	1.00000
PAH10+CH3	4.33653e-20	1.00000	4.33653e-20	1.00000
rad43	1.28501e-20	1.00000	1.28501e-20	1.00000
rad62	1.65958e-21	1.00000	1.65958e-21	1.00000
rad52	6.02604e-22	1.00000	6.02604e-22	1.00000
PhcycC3H3_A+H	1.34240e-23	1.00000	1.34240e-23	1.00000
rad70	1.23882e-23	1.00000	1.23882e-23	1.00000
rad55	4.72485e-24	1.00000	4.72485e-24	1.00000
rad51	2.06316e-24	1.00000	2.06317e-24	1.00000
PAH1+H	7.58073e-26	1.00000	7.58073e-26	1.00000
rad58	9.22302e-27	1.00000	9.22303e-27	1.00000
rad65	5.82835e-27	1.00000	5.82835e-27	1.00000
rad34	3.26017e-27	1.00000	3.26017e-27	1.00000
rad42	1.93732e-29	1.00000	1.93732e-29	1.00000
rad41	4.78124e-30	1.00000	4.78124e-30	1.00000
rad47	4.43149e-33	1.00000	4.43149e-33	1.00000

1.00000000 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.56414e-18 (1.00)	3.56414e-18 (1.00)
Formation of rad11	3.18264e-18 (0.893)	3.18263e-18 (0.893)
Formation of rad6	3.62173e-19 (0.102)	3.62173e-19 (0.102)
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.930842	0.930842	0.930843	0.930843
Indene+H	0.0623415	0.993183	0.0623415	0.993184
Benzene+2-propynyl	0.00542285	0.998606	0.00542285	0.998607
C2H2+PhCH2	0.000799480	0.999405	0.000799480	0.999406
rad2	0.000295865	0.999701	0.000295866	0.999702
rad7	0.000138012	0.999839	0.000138012	0.999840
rad11	4.16040e-05	0.999881	4.16040e-05	0.999882
rad28	2.70885e-05	0.999908	2.70885e-05	0.999909
rad10	2.01289e-05	0.999928	2.01290e-05	0.999929
rad1	1.96771e-05	0.999948	1.96771e-05	0.999949
PhCCH+CH3	1.67609e-05	0.999965	1.67609e-05	0.999966
PhCHCCH2+H	1.36800e-05	0.999978	1.36800e-05	0.999979
rad23	6.28843e-06	0.999985	6.28843e-06	0.999986
rad3	4.00231e-06	0.999989	4.00231e-06	0.999990
rad26	3.68642e-06	0.999992	3.68642e-06	0.999993
PhCCCH3+H	3.45037e-06	0.999996	3.45037e-06	0.999997
rad4	2.05105e-06	0.999998	2.05105e-06	0.999999
rad9	6.23608e-07	0.999998	6.23608e-07	0.999999
rad13	4.50239e-07	0.999999	4.50240e-07	1.000000
Ph+MeAc	2.82614e-07	0.999999	2.82614e-07	1.000000
Phenyl+Allene	2.51640e-07	0.999999	0.000000	1.000000
rad45	1.47223e-07	1.000000	1.47223e-07	1.000000
rad30	5.13296e-08	1.000000	5.13296e-08	1.000000
rad8	3.87350e-08	1.000000	3.87350e-08	1.000000
PAH9+H	1.07682e-08	1.000000	1.07682e-08	1.000000
rad15	1.06244e-08	1.000000	1.06244e-08	1.000000
rad36	9.15148e-09	1.000000	9.15149e-09	1.000000
rad22	6.74501e-09	1.000000	6.74501e-09	1.000000
rad35	5.23021e-09	1.000000	5.23021e-09	1.000000
PAH7+H	4.15162e-09	1.000000	4.15162e-09	1.000000
rad38	2.98091e-09	1.000000	2.98091e-09	1.000000
PhCH2CCH+H	1.14669e-09	1.000000	1.14670e-09	1.000000
rad39	8.30566e-10	1.000000	8.30566e-10	1.000000

rad33	7.53296e-10	1.000000	7.53296e-10	1.000000
rad12	4.31199e-10	1.000000	4.31199e-10	1.000000
rad14	3.53279e-10	1.000000	3.53279e-10	1.000000
rad25	3.17314e-10	1.000000	3.17314e-10	1.000000
rad27	1.92943e-10	1.000000	1.92943e-10	1.000000
rad46	3.31290e-11	1.000000	3.31291e-11	1.000000
rad37	9.99321e-12	1.000000	9.99321e-12	1.000000
rad60syn	3.12627e-12	1.000000	3.12627e-12	1.000000
rad60anti	9.13988e-13	1.000000	9.13988e-13	1.000000
rad5	4.87059e-13	1.000000	4.87059e-13	1.000000
rad20	2.63394e-14	1.000000	2.63395e-14	1.000000
rad18	2.13520e-14	1.000000	2.13520e-14	1.000000
rad21	1.75575e-14	1.000000	1.75575e-14	1.000000
rad31	8.45412e-15	1.000000	8.45412e-15	1.000000
PAH3+H	2.29898e-15	1.000000	2.29898e-15	1.000000
rad24	1.26479e-15	1.000000	1.26479e-15	1.000000
rad59	8.17529e-16	1.000000	8.17530e-16	1.000000
rad50	7.97063e-17	1.000000	7.97064e-17	1.000000
rad19syn	6.08467e-17	1.000000	6.08467e-17	1.000000
rad54	5.75572e-19	1.000000	5.75572e-19	1.000000
PAH10+CH3	3.12650e-19	1.000000	3.12650e-19	1.000000
rad43	9.08852e-20	1.000000	9.08852e-20	1.000000
rad62	1.38293e-20	1.000000	1.38293e-20	1.000000
rad52	3.12934e-21	1.000000	3.12934e-21	1.000000
PhcycC3H3_A+H	1.76880e-22	1.000000	1.76880e-22	1.000000
rad70	1.52231e-22	1.000000	1.52231e-22	1.000000
rad55	5.93294e-23	1.000000	5.93294e-23	1.000000
rad51	1.77537e-23	1.000000	1.77537e-23	1.000000
PAH1+H	1.36983e-24	1.000000	1.36983e-24	1.000000
rad58	1.26188e-25	1.000000	1.26188e-25	1.000000
rad65	6.51235e-26	1.000000	6.51235e-26	1.000000
rad34	6.42958e-26	1.000000	6.42958e-26	1.000000
rad42	4.88618e-28	1.000000	4.88618e-28	1.000000
rad41	1.26308e-28	1.000000	1.26308e-28	1.000000
rad47	5.86593e-32	1.000000	5.86593e-32	1.000000

1.00000000 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.50681e-18 (1.00)	6.50681e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71915e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39013e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.928033	0.928033	0.928033	0.928033
Indene+H	0.0629967	0.991030	0.0629967	0.991030
Benzene+2-propynyl	0.00747672	0.998507	0.00747672	0.998507
C2H2+PhCH2	0.000848353	0.999355	0.000848353	0.999355
rad2	0.000326392	0.999681	0.000326392	0.999681
rad7	0.000136596	0.999818	0.000136596	0.999818
rad11	4.10763e-05	0.999859	4.10763e-05	0.999859
rad28	3.26812e-05	0.999892	3.26812e-05	0.999892
PhCCH+CH3	2.32631e-05	0.999915	2.32631e-05	0.999915
rad10	2.21603e-05	0.999937	2.21603e-05	0.999937
rad1	2.18509e-05	0.999959	2.18510e-05	0.999959
PhCHCCH2+H	1.72195e-05	0.999976	1.72195e-05	0.999976
rad23	5.42641e-06	0.999982	5.42641e-06	0.999982
PhCCCH3+H	5.11414e-06	0.999987	5.11414e-06	0.999987
rad26	4.88888e-06	0.999992	4.88889e-06	0.999992
rad3	4.19113e-06	0.999996	4.19113e-06	0.999996
rad4	2.15175e-06	0.999998	2.15175e-06	0.999998
rad9	7.24956e-07	0.999999	7.24956e-07	0.999999
Ph+MeAc	4.75908e-07	0.999999	4.75908e-07	0.999999
rad13	4.47727e-07	1.000000	4.47727e-07	1.000000
Phenyl+Allene	3.44563e-07	1.000000	0.000000	1.000000
rad45	1.25986e-07	1.000000	1.25986e-07	1.000000
rad8	5.91045e-08	1.000000	5.91045e-08	1.000000
rad30	5.56611e-08	1.000000	5.56611e-08	1.000000
PAH9+H	1.19321e-08	1.000000	1.19321e-08	1.000000
rad15	1.17100e-08	1.000000	1.17100e-08	1.000000
rad36	7.84271e-09	1.000000	7.84271e-09	1.000000
PAH7+H	7.67855e-09	1.000000	7.67855e-09	1.000000
rad22	5.84770e-09	1.000000	5.84770e-09	1.000000
rad35	5.73213e-09	1.000000	5.73213e-09	1.000000
rad38	3.33113e-09	1.000000	3.33113e-09	1.000000
PhCH2CCH+H	2.20409e-09	1.000000	2.20409e-09	1.000000
rad39	1.59164e-09	1.000000	1.59164e-09	1.000000

rad12	8.24932e-10	1.00000	8.24933e-10	1.000000
rad33	7.54140e-10	1.00000	7.54140e-10	1.000000
rad14	3.68036e-10	1.00000	3.68036e-10	1.000000
rad25	3.14365e-10	1.00000	3.14365e-10	1.000000
rad27	2.12567e-10	1.00000	2.12568e-10	1.000000
rad46	3.95427e-11	1.00000	3.95427e-11	1.000000
rad37	2.28270e-11	1.00000	2.28270e-11	1.000000
rad60syn	4.10887e-12	1.00000	4.10887e-12	1.000000
rad60anti	1.25502e-12	1.00000	1.25502e-12	1.000000
rad5	1.16982e-12	1.00000	1.16982e-12	1.000000
rad20	2.61114e-14	1.00000	2.61114e-14	1.000000
rad18	1.98068e-14	1.00000	1.98068e-14	1.000000
rad21	1.74537e-14	1.00000	1.74537e-14	1.000000
rad31	9.65540e-15	1.00000	9.65540e-15	1.000000
PAH3+H	5.62977e-15	1.00000	5.62977e-15	1.000000
rad59	1.92736e-15	1.00000	1.92736e-15	1.000000
rad24	1.09283e-15	1.00000	1.09283e-15	1.000000
rad19syn	2.77664e-16	1.00000	2.77664e-16	1.000000
rad50	1.92689e-16	1.00000	1.92689e-16	1.000000
rad54	3.33886e-18	1.00000	3.33886e-18	1.000000
PAH10+CH3	1.85528e-18	1.00000	1.85528e-18	1.000000
rad43	5.28221e-19	1.00000	5.28221e-19	1.000000
rad62	9.28231e-20	1.00000	9.28232e-20	1.000000
rad52	1.39269e-20	1.00000	1.39269e-20	1.000000
PhcycC3H3_A+H	1.77847e-21	1.00000	1.77847e-21	1.000000
rad70	1.43312e-21	1.00000	1.43312e-21	1.000000
rad55	5.70492e-22	1.00000	5.70492e-22	1.000000
rad51	1.23548e-22	1.00000	1.23548e-22	1.000000
PAH1+H	1.79805e-23	1.00000	1.79805e-23	1.000000
rad58	1.31128e-24	1.00000	1.31128e-24	1.000000
rad34	9.03838e-25	1.00000	9.03838e-25	1.000000
rad65	5.68060e-25	1.00000	5.68060e-25	1.000000
rad42	8.26669e-27	1.00000	8.26669e-27	1.000000
rad41	2.20192e-27	1.00000	2.20192e-27	1.000000
rad47	5.75354e-31	1.00000	5.75354e-31	1.000000

1.00000000 Pa, 190.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.11858e-17	(1.00)	1.11858e-17	(1.00)
Formation of rad11	9.67466e-18	(0.865)	9.67465e-18	(0.865)
Formation of rad6	1.40029e-18	(0.125)	1.40029e-18	(0.125)
H-abstraction	1.10851e-19	(0.00991)	1.10851e-19	(0.00991)
species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.924653	0.924653	0.924654	0.924654
Indene+H	0.0638278	0.988481	0.0638278	0.988482
Benzene+2-propynyl	0.00090995	0.998391	0.00090996	0.998392
C2H2+PhCH2	0.000905328	0.999296	0.000905329	0.999297
rad2	0.000357697	0.999654	0.000357697	0.999655
rad7	0.000135181	0.999789	0.000135181	0.999790
rad11	4.05588e-05	0.999830	4.05588e-05	0.999831
rad28	3.93656e-05	0.999869	3.93656e-05	0.999870
PhCCH+CH3	3.22924e-05	0.999901	3.22924e-05	0.999902
rad10	2.42392e-05	0.999925	2.42392e-05	0.999926
rad1	2.41188e-05	0.999950	2.41188e-05	0.999951
PhCHCCH2+H	2.20183e-05	0.999972	2.20183e-05	0.999973
PhCCCH3+H	7.50266e-06	0.999979	7.50267e-06	0.999980
rad26	6.38446e-06	0.999985	6.38446e-06	0.999986
rad23	4.77157e-06	0.999990	4.77157e-06	0.999991
rad3	4.38522e-06	0.999995	4.38522e-06	0.999996
rad4	2.25591e-06	0.999997	2.25591e-06	0.999998
rad9	8.50384e-07	0.999998	8.50385e-07	0.999999
Ph+MeAc	7.86950e-07	0.999999	7.86950e-07	1.000000
Phenyl+Allene	4.73000e-07	0.999999	0.00000	1.000000
rad13	4.45194e-07	0.999999	4.45194e-07	1.000000
rad45	1.09949e-07	1.000000	1.09949e-07	1.000000
rad8	8.91634e-08	1.000000	8.91634e-08	1.000000
rad30	6.07834e-08	1.000000	6.07834e-08	1.000000
PAH7+H	1.40494e-08	1.000000	1.40494e-08	1.000000
PAH9+H	1.33276e-08	1.000000	1.33276e-08	1.000000
rad15	1.30089e-08	1.000000	1.30089e-08	1.000000
rad36	6.85668e-09	1.000000	6.85668e-09	1.000000
rad35	6.32775e-09	1.000000	6.32775e-09	1.000000
rad22	5.15220e-09	1.000000	5.15220e-09	1.000000
PhCH2CCH+H	4.08600e-09	1.000000	4.08600e-09	1.000000
rad38	3.75429e-09	1.000000	3.75429e-09	1.000000
rad39	3.00503e-09	1.000000	3.00503e-09	1.000000

rad12	1.52761e-09	1.000000	1.52761e-09	1.000000
rad33	7.54753e-10	1.000000	7.54754e-10	1.000000
rad14	3.83284e-10	1.000000	3.83284e-10	1.000000
rad25	3.11665e-10	1.000000	3.11665e-10	1.000000
rad27	2.32763e-10	1.000000	2.32763e-10	1.000000
rad37	4.92955e-11	1.000000	4.92955e-11	1.000000
rad46	4.77486e-11	1.000000	4.77486e-11	1.000000
rad60syn	5.44498e-12	1.000000	5.44498e-12	1.000000
rad5	2.64923e-12	1.000000	2.64923e-12	1.000000
rad60anti	1.73011e-12	1.000000	1.73011e-12	1.000000
rad20	2.60967e-14	1.000000	2.60967e-14	1.000000
rad18	1.85447e-14	1.000000	1.85447e-14	1.000000
rad21	1.74943e-14	1.000000	1.74943e-14	1.000000
PAH3+H	1.29602e-14	1.000000	1.29602e-14	1.000000
rad31	1.10190e-14	1.000000	1.10191e-14	1.000000
rad59	4.27854e-15	1.000000	4.27854e-15	1.000000
rad19syn	1.10557e-15	1.000000	1.10557e-15	1.000000
rad24	9.63220e-16	1.000000	9.63220e-16	1.000000
rad50	4.42596e-16	1.000000	4.42596e-16	1.000000
rad54	1.64317e-17	1.000000	1.64317e-17	1.000000
PAH10+CH3	9.31846e-18	1.000000	9.31847e-18	1.000000
rad43	2.59627e-18	1.000000	2.59627e-18	1.000000
rad62	5.18279e-19	1.000000	5.18279e-19	1.000000
rad52	5.44671e-20	1.000000	5.44671e-20	1.000000
PhcycC3H3_A+H	1.42066e-20	1.000000	1.42066e-20	1.000000
rad70	1.07621e-20	1.000000	1.07621e-20	1.000000
rad55	4.37360e-21	1.000000	4.37361e-21	1.000000
rad51	7.18318e-22	1.000000	7.18319e-22	1.000000
PAH1+H	1.80188e-22	1.000000	1.80188e-22	1.000000
rad58	1.07837e-23	1.000000	1.07837e-23	1.000000
rad34	9.58447e-24	1.000000	9.58448e-24	1.000000
rad65	4.01626e-24	1.000000	4.01626e-24	1.000000
rad42	1.01881e-25	1.000000	1.01881e-25	1.000000
rad41	2.77661e-26	1.000000	2.77661e-26	1.000000
rad47	4.37811e-30	1.000000	4.37811e-30	1.000000

1.00000000 Pa, 200.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.82690e-17	(1.00)	1.82690e-17	(1.00)
Formation of rad11	1.55456e-17	(0.851)	1.55456e-17	(0.851)
Formation of rad6	2.49126e-18	(0.136)	2.49126e-18	(0.136)
H-abstraction	2.32112e-19	(0.0127)	2.32112e-19	(0.0127)

species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.920680	0.920680	0.920681	0.920681
Indene+H	0.0648715	0.985551	0.0648716	0.985553
Benzene+2-propynyl	0.0127053	0.998257	0.0127053	0.998258
C2H2+PhCH2	0.000972223	0.999229	0.000972224	0.999230
rad2	0.000389382	0.999618	0.000389382	0.999619
rad7	0.000133754	0.999752	0.000133754	0.999753
rad28	4.73032e-05	0.999799	4.73032e-05	0.999800
PhCCH+CH3	4.47653e-05	0.999844	4.47654e-05	0.999845
rad11	4.00468e-05	0.999884	4.00469e-05	0.999885
PhCHCCH2+H	2.85148e-05	0.999913	2.85148e-05	0.999914
rad1	2.64601e-05	0.999939	2.64601e-05	0.999940
rad10	2.63397e-05	0.999966	2.63397e-05	0.999967
PhCCCH3+H	1.08872e-05	0.999976	1.08872e-05	0.999977
rad26	8.20503e-06	0.999985	8.20503e-06	0.999986
rad3	4.58168e-06	0.999989	4.58168e-06	0.999990
rad23	4.26326e-06	0.999993	4.26326e-06	0.999995
rad4	2.36213e-06	0.999996	2.36213e-06	0.999997
Ph+MeAc	1.27772e-06	0.999997	1.27772e-06	0.999998
rad9	1.00701e-06	0.999998	1.00701e-06	0.999999
Phenyl+Allene	6.51604e-07	0.999999	0.00000	0.999999
rad13	4.42606e-07	0.999999	4.42606e-07	1.000000
rad8	1.32896e-07	0.999999	1.32896e-07	1.000000
rad45	9.75711e-08	0.999999	9.75712e-08	1.000000
rad30	6.68891e-08	0.999999	6.68892e-08	1.000000
PAH7+H	2.53524e-08	1.000000	2.53524e-08	1.000000
PAH9+H	1.50188e-08	1.000000	1.50188e-08	1.000000
rad15	1.45762e-08	1.000000	1.45763e-08	1.000000
PhCH2CCH+H	7.35440e-09	1.000000	7.35440e-09	1.000000
rad35	7.04188e-09	1.000000	7.04189e-09	1.000000
rad36	6.09786e-09	1.000000	6.09787e-09	1.000000
rad39	5.57476e-09	1.000000	5.57476e-09	1.000000
rad22	4.60150e-09	1.000000	4.60150e-09	1.000000
rad38	4.27119e-09	1.000000	4.27119e-09	1.000000

rad12	2.73901e-09	1.000000	2.73901e-09	1.00000
rad33	7.55109e-10	1.000000	7.55109e-10	1.00000
rad14	3.98786e-10	1.000000	3.98786e-10	1.00000
rad25	3.09135e-10	1.000000	3.09136e-10	1.00000
rad27	2.53294e-10	1.000000	2.53294e-10	1.00000
rad37	1.01188e-10	1.000000	1.01188e-10	1.00000
rad46	5.83749e-11	1.000000	5.83750e-11	1.00000
rad60syn	7.27721e-12	1.000000	7.27721e-12	1.00000
rad5	5.69442e-12	1.000000	5.69442e-12	1.00000
rad60anti	2.39685e-12	1.000000	2.39686e-12	1.00000
PAH3+H	2.83618e-14	1.000000	2.83618e-14	1.00000
rad20	2.62671e-14	1.000000	2.62671e-14	1.00000
rad21	1.76613e-14	1.000000	1.76613e-14	1.00000
rad18	1.75056e-14	1.000000	1.75056e-14	1.00000
rad31	1.25673e-14	1.000000	1.25673e-14	1.00000
rad59	9.04421e-15	1.000000	9.04422e-15	1.00000
rad19syn	3.91767e-15	1.000000	3.91768e-15	1.00000
rad50	9.74832e-16	1.000000	9.74833e-16	1.00000
rad24	8.63538e-16	1.000000	8.63538e-16	1.00000
rad54	7.02630e-17	1.000000	7.02631e-17	1.00000
PAH10+CH3	4.05360e-17	1.000000	4.05360e-17	1.00000
rad43	1.10482e-17	1.000000	1.10482e-17	1.00000
rad62	2.47108e-18	1.000000	2.47108e-18	1.00000
rad52	1.90981e-19	1.000000	1.90981e-19	1.00000
PhcycC3H3_A+H	9.31139e-20	1.000000	9.31140e-20	1.00000
rad70	6.65932e-20	1.000000	6.65932e-20	1.00000
rad55	2.76095e-20	1.000000	2.76095e-20	1.00000
rad51	3.58121e-21	1.000000	3.58121e-21	1.00000
PAH1+H	1.43263e-21	1.000000	1.43263e-21	1.00000
rad34	7.99072e-23	1.000000	7.99073e-23	1.00000
rad58	7.25192e-23	1.000000	7.25193e-23	1.00000
rad65	2.37162e-23	1.000000	2.37163e-23	1.00000
rad42	9.64131e-25	1.000000	9.64132e-25	1.00000
rad41	2.67908e-25	1.000000	2.67909e-25	1.00000
rad47	2.68329e-29	1.000000	2.68329e-29	1.00000

1.00000000 Pa, 210.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.85520e-17	(1.00)	2.85520e-17	(1.00)
Formation of rad11	2.39009e-17	(0.837)	2.39009e-17	(0.837)
Formation of rad6	4.19900e-18	(0.147)	4.19900e-18	(0.147)
H-abstraction	4.52111e-19	(0.0158)	4.52111e-19	(0.0158)

species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.916097	0.916097	0.916098	0.916098
Indene+H	0.0661693	0.982266	0.0661693	0.982267
Benzene+2-propynyl	0.00158346	0.998100	0.00158346	0.998101
C2H2+PhCH2	0.00105130	0.999152	0.00105130	0.999153
rad2	0.000421015	0.999573	0.000421015	0.999574
rad7	0.000132305	0.999705	0.000132305	0.999706
PhCCH+CH3	6.18845e-05	0.999767	6.18846e-05	0.999768
rad28	5.66525e-05	0.999824	5.66526e-05	0.999825
rad11	3.95368e-05	0.999863	3.95368e-05	0.999864
PhCHCCH2+H	3.72768e-05	0.999900	3.72768e-05	0.999901
rad1	2.88518e-05	0.999929	2.88519e-05	0.999930
rad10	2.84332e-05	0.999958	2.84332e-05	0.999959
PhCCCH3+H	1.56199e-05	0.999973	1.56199e-05	0.999974
rad26	1.03733e-05	0.999984	1.03733e-05	0.999985
rad3	4.77744e-06	0.999988	4.77744e-06	0.999989
rad23	3.86031e-06	0.999992	3.86031e-06	0.999993
rad4	2.46894e-06	0.999995	2.46894e-06	0.999996
Ph+MeAc	2.03719e-06	0.999997	2.03719e-06	0.999998
rad9	1.20425e-06	0.999998	1.20425e-06	0.999999
Phenyl+Allene	9.01447e-07	0.999999	0.00000	0.999999
rad13	4.39936e-07	0.999999	4.39937e-07	0.999999
rad8	1.95616e-07	1.000000	1.95616e-07	1.000000
rad45	8.78117e-08	1.000000	8.78118e-08	1.000000
rad30	7.42238e-08	1.000000	7.42239e-08	1.000000
PAH7+H	4.50025e-08	1.000000	4.50025e-08	1.000000
PAH9+H	1.70898e-08	1.000000	1.70898e-08	1.000000
rad15	1.64833e-08	1.000000	1.64834e-08	1.000000
PhCH2CCH+H	1.29176e-08	1.000000	1.29176e-08	1.000000
rad39	1.01396e-08	1.000000	1.01396e-08	1.000000
rad35	7.90661e-09	1.000000	7.90662e-09	1.000000
rad36	5.50199e-09	1.000000	5.50200e-09	1.000000
rad38	4.90923e-09	1.000000	4.90923e-09	1.000000
rad12	4.75893e-09	1.000000	4.75893e-09	1.000000

rad22	4.15666e-09	1.000000	4.15666e-09	1.000000
rad33	7.55186e-10	1.000000	7.55186e-10	1.000000
rad14	4.14294e-10	1.000000	4.14294e-10	1.000000
rad25	3.06713e-10	1.000000	3.06713e-10	1.000000
rad27	2.73900e-10	1.000000	2.73901e-10	1.000000
rad37	1.98350e-10	1.000000	1.98350e-10	1.000000
rad46	7.22984e-11	1.000000	7.22985e-11	1.000000
rad5	1.16809e-11	1.000000	1.16809e-11	1.000000
rad60syn	9.81018e-12	1.000000	9.81019e-12	1.000000
rad60anti	3.33893e-12	1.000000	3.33893e-12	1.000000
PAH3+H	5.95030e-14	1.000000	5.95031e-14	1.000000
rad20	2.66045e-14	1.000000	2.66045e-14	1.000000
rad59	1.83613e-14	1.000000	1.83614e-14	1.000000
rad21	1.79439e-14	1.000000	1.79439e-14	1.000000
rad18	1.66456e-14	1.000000	1.66456e-14	1.000000
rad31	1.43271e-14	1.000000	1.43271e-14	1.000000
rad19syn	1.25542e-14	1.000000	1.25542e-14	1.000000
rad50	2.07288e-15	1.000000	2.07288e-15	1.000000
rad24	7.85379e-16	1.000000	7.85380e-16	1.000000
rad54	2.66138e-16	1.000000	2.66138e-16	1.000000
PAH10+CH3	1.55625e-16	1.000000	1.55625e-16	1.000000
rad43	4.14931e-17	1.000000	4.14931e-17	1.000000
rad62	1.02770e-17	1.000000	1.02770e-17	1.000000
rad52	6.09999e-19	1.000000	6.10000e-19	1.000000
PhcycC3H3_A+H	5.13913e-19	1.000000	5.13914e-19	1.000000
rad70	3.48544e-19	1.000000	3.48544e-19	1.000000
rad55	1.47288e-19	1.000000	1.47289e-19	1.000000
rad51	1.56308e-20	1.000000	1.56308e-20	1.000000
PAH1+H	9.31845e-21	1.000000	9.31846e-21	1.000000
rad34	5.40946e-22	1.000000	5.40946e-22	1.000000
rad58	4.09443e-22	1.000000	4.09443e-22	1.000000
rad65	1.19803e-22	1.000000	1.19803e-22	1.000000
rad42	7.26544e-24	1.000000	7.26545e-24	1.000000
rad41	2.05269e-24	1.000000	2.05269e-24	1.000000
rad47	1.36590e-28	1.000000	1.36590e-28	1.000000

1.00000000 Pa, 220.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	4.29529e-17	(1.00)	4.29528e-17	(1.00)
Formation of rad11	3.53712e-17	(0.823)	3.53711e-17	(0.823)
Formation of rad6	6.75433e-18	(0.157)	6.75432e-18	(0.157)
H-abstraction	8.27372e-19	(0.0193)	8.27372e-19	(0.0193)

species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.910886	0.910886	0.910887	0.910887
Indene+H	0.0677678	0.978653	0.0677679	0.978654
Benzene+2-propynyl	0.0192623	0.997916	0.0192623	0.997917
C2H2+PhCH2	0.00114534	0.999061	0.00114534	0.999062
rad2	0.000452145	0.999513	0.000452146	0.999514
rad7	0.000130827	0.999644	0.000130827	0.999645
PhCCH+CH3	8.52070e-05	0.999729	8.52071e-05	0.999730
rad28	6.75580e-05	0.999797	6.75580e-05	0.999798
PhCHCCH2+H	4.90305e-05	0.999846	4.90306e-05	0.999847
rad11	3.90251e-05	0.999885	3.90252e-05	0.999886
rad1	3.12694e-05	0.999916	3.12694e-05	0.999917
rad10	3.04901e-05	0.999947	3.04902e-05	0.999948
PhCCCH3+H	2.21500e-05	0.999969	2.21500e-05	0.999970
rad26	1.28994e-05	0.999982	1.28995e-05	0.999983
rad3	4.96938e-06	0.999987	4.96939e-06	0.999988
rad23	3.53434e-06	0.999990	3.53434e-06	0.999991
Ph+MeAc	3.19045e-06	0.999993	3.19045e-06	0.999994
rad4	2.57480e-06	0.999996	2.57480e-06	0.999997
rad9	1.45461e-06	0.999997	1.45462e-06	0.999998
Phenyl+Allene	1.25280e-06	0.999999	0.00000	0.999998
rad13	4.37159e-07	0.999999	4.37159e-07	0.999999
rad8	2.84283e-07	0.999999	2.84283e-07	0.999999
rad30	8.31003e-08	0.999999	8.31005e-08	0.999999
rad45	7.99618e-08	1.000000	7.99619e-08	0.999999
PAH7+H	7.84184e-08	1.000000	7.84185e-08	0.999999
PhCH2CCH+H	2.22252e-08	1.000000	2.22252e-08	0.999999
PAH9+H	1.96510e-08	1.000000	1.96510e-08	0.999999
rad15	1.88223e-08	1.000000	1.88223e-08	1.000000
rad39	1.80517e-08	1.000000	1.80517e-08	1.000000
rad35	8.96351e-09	1.000000	8.96353e-09	1.000000
rad12	8.02143e-09	1.000000	8.02144e-09	1.000000
rad38	5.70480e-09	1.000000	5.70481e-09	1.000000
rad36	5.02516e-09	1.000000	5.02517e-09	1.000000

rad22	3.79060e-09	1.000000	3.79061e-09	1.000000
rad33	7.54965e-10	1.000000	7.54966e-10	1.000000
rad14	4.29552e-10	1.000000	4.29553e-10	1.000000
rad37	3.72785e-10	1.000000	3.72785e-10	1.000000
rad25	3.04351e-10	1.000000	3.04351e-10	1.000000
rad27	2.94310e-10	1.000000	2.94311e-10	1.000000
rad46	9.07450e-11	1.000000	9.07451e-11	1.000000
rad5	2.29701e-11	1.000000	2.29701e-11	1.000000
rad60syn	1.33373e-11	1.000000	1.33374e-11	1.000000
rad60anti	4.67804e-12	1.000000	4.67805e-12	1.000000
PAH3+H	1.20441e-13	1.000000	1.20441e-13	1.000000
rad19syn	3.68545e-14	1.000000	3.68546e-14	1.000000
rad59	3.60302e-14	1.000000	3.60303e-14	1.000000
rad20	2.70987e-14	1.000000	2.70988e-14	1.000000
rad21	1.83365e-14	1.000000	1.83365e-14	1.000000
rad31	1.63326e-14	1.000000	1.63326e-14	1.000000
rad18	1.59317e-14	1.000000	1.59317e-14	1.000000
rad50	4.27608e-15	1.000000	4.27608e-15	1.000000
rad54	9.06970e-16	1.000000	9.06970e-16	1.000000
rad24	7.22974e-16	1.000000	7.22975e-16	1.000000
PAH10+CH3	5.35527e-16	1.000000	5.35528e-16	1.000000
rad43	1.39714e-16	1.000000	1.39714e-16	1.000000
rad62	3.79341e-17	1.000000	3.79342e-17	1.000000
PhcycC3H3_A+H	2.43932e-18	1.000000	2.43932e-18	1.000000
rad52	1.79722e-18	1.000000	1.79722e-18	1.000000
rad70	1.57613e-18	1.000000	1.57613e-18	1.000000
rad55	6.78089e-19	1.000000	6.78090e-19	1.000000
rad51	6.07193e-20	1.000000	6.07194e-20	1.000000
PAH1+H	5.08486e-20	1.000000	5.08486e-20	1.000000
rad34	3.05309e-21	1.000000	3.05309e-21	1.000000
rad58	1.98279e-21	1.000000	1.98279e-21	1.000000
rad65	5.27752e-22	1.000000	5.27753e-22	1.000000
rad42	4.49080e-23	1.000000	4.49081e-23	1.000000
rad41	1.28700e-23	1.000000	1.28700e-23	1.000000
rad47	5.92329e-28	1.000000	5.92330e-28	1.000000

1.00000000 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.25016e-17 (1.00)	6.25015e-17 (1.00)
Formation of rad11	5.06355e-17 (0.810)	5.06354e-17 (0.810)
Formation of rad6	1.04318e-17 (0.167)	1.04318e-17 (0.167)
H-abstraction	1.43428e-18 (0.0229)	1.43428e-18 (0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.905029	0.905029	0.905031	0.905031
Indene+H	0.0697199	0.974749	0.0697200	0.974751
Benzene+2-propynyl	0.0229478	0.997697	0.0229479	0.997699
C2H2+PhCH2	0.00125787	0.998954	0.00125787	0.998956
rad2	0.000482317	0.999437	0.000482318	0.999439
rad7	0.000129314	0.999566	0.000129314	0.999568
PhCCH+CH3	0.000116721	0.999683	0.000116721	0.999685
rad28	8.01362e-05	0.999763	8.01364e-05	0.999765
PhCHCCH2+H	6.46907e-05	0.999828	6.46908e-05	0.999830
rad11	3.85091e-05	0.999866	3.85092e-05	0.999868
rad1	3.36874e-05	0.999900	3.36875e-05	0.999902
rad10	3.24807e-05	0.999932	3.24808e-05	0.999934
PhCCCH3+H	3.10408e-05	0.999963	3.10408e-05	0.999965
rad26	1.57789e-05	0.999979	1.57789e-05	0.999981
rad3	5.15437e-06	0.999984	5.15438e-06	0.999986
Ph+MeAc	4.90954e-06	0.999989	4.90955e-06	0.999991
rad23	3.26554e-06	0.999992	3.26555e-06	0.999994
rad4	2.67820e-06	0.999995	2.67821e-06	0.999997
rad9	1.77453e-06	0.999997	1.77453e-06	0.999999
Phenyl+Allene	1.74901e-06	0.999999	0.00000	0.999999
rad13	4.34252e-07	0.999999	4.34253e-07	0.999999
rad8	4.07852e-07	0.999999	4.07853e-07	1.000000
PAH7+H	1.33943e-07	1.000000	1.33943e-07	1.000000
rad30	9.39167e-08	1.000000	9.39169e-08	1.000000
rad45	7.35287e-08	1.000000	7.35288e-08	1.000000
PhCH2CCH+H	3.75591e-08	1.000000	3.75591e-08	1.000000
rad39	3.14223e-08	1.000000	3.14224e-08	1.000000
PAH9+H	2.28473e-08	1.000000	2.28474e-08	1.000000
rad15	2.17122e-08	1.000000	2.17122e-08	1.000000
rad12	1.31343e-08	1.000000	1.31343e-08	1.000000
rad35	1.02665e-08	1.000000	1.02665e-08	1.000000
rad38	6.70607e-09	1.000000	6.70608e-09	1.000000
rad36	4.63691e-09	1.000000	4.63692e-09	1.000000

rad22	3.48422e-09	1.000000	3.48422e-09	1.000000
rad33	7.54428e-10	1.000000	7.54430e-10	1.000000
rad37	6.74121e-10	1.000000	6.74122e-10	1.000000
rad14	4.44311e-10	1.000000	4.44311e-10	1.000000
rad27	3.14248e-10	1.000000	3.14248e-10	1.000000
rad25	3.02009e-10	1.000000	3.02010e-10	1.000000
rad46	1.15429e-10	1.000000	1.15429e-10	1.000000
rad5	4.34667e-11	1.000000	4.34667e-11	1.000000
rad60syn	1.82786e-11	1.000000	1.82786e-11	1.000000
rad60anti	6.59051e-12	1.000000	6.59052e-12	1.000000
PAH3+H	2.36290e-13	1.000000	2.36290e-13	1.000000
rad19syn	1.00156e-13	1.000000	1.00157e-13	1.000000
rad59	6.86560e-14	1.000000	6.86561e-14	1.000000
rad20	2.77448e-14	1.000000	2.77448e-14	1.000000
rad21	1.88369e-14	1.000000	1.88370e-14	1.000000
rad31	1.86267e-14	1.000000	1.86267e-14	1.000000
rad18	1.53391e-14	1.000000	1.53391e-14	1.000000
rad50	8.58584e-15	1.000000	8.58585e-15	1.000000
rad54	2.81616e-15	1.000000	2.81617e-15	1.000000
PAH10+CH3	1.67291e-15	1.000000	1.67291e-15	1.000000
rad24	6.72311e-16	1.000000	6.72312e-16	1.000000
rad43	4.27274e-16	1.000000	4.27275e-16	1.000000
rad62	1.26050e-16	1.000000	1.26051e-16	1.000000
PhcycC3H3_A+H	1.01312e-17	1.000000	1.01312e-17	1.000000
rad70	6.26556e-18	1.000000	6.26557e-18	1.000000
rad52	4.93248e-18	1.000000	4.93249e-18	1.000000
rad55	2.74068e-18	1.000000	2.74068e-18	1.000000
PAH1+H	2.37705e-19	1.000000	2.37706e-19	1.000000
rad51	2.12700e-19	1.000000	2.12701e-19	1.000000
rad34	1.46858e-20	1.000000	1.46858e-20	1.000000
rad58	8.38189e-21	1.000000	8.38191e-21	1.000000
rad65	2.05905e-21	1.000000	2.05905e-21	1.000000
rad42	2.33376e-22	1.000000	2.33377e-22	1.000000
rad41	6.77118e-23	1.000000	6.77119e-23	1.000000
rad47	2.23488e-27	1.000000	2.23488e-27	1.000000

1.00000000 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83271e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04076e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55481e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.898501	0.898501	0.898503	0.898503
Indene+H	0.0720848	0.970586	0.0720849	0.970588
Benzene+2-propynyl	0.0268483	0.997434	0.0268483	0.997436
C2H2+PhCH2	0.00139313	0.998827	0.00139313	0.998830
rad2	0.000511092	0.999339	0.000511094	0.999341
PhCCH+CH3	0.000158926	0.999497	0.000158926	0.999500
rad7	0.000127755	0.999625	0.000127755	0.999627
rad28	9.44618e-05	0.999720	9.44620e-05	0.999722
PhCHCCH2+H	8.53939e-05	0.999805	8.53942e-05	0.999807
PhCCCH3+H	4.29867e-05	0.999848	4.29868e-05	0.999850
rad11	3.79860e-05	0.999886	3.79861e-05	0.999888
rad1	3.60807e-05	0.999922	3.60808e-05	0.999924
rad10	3.43767e-05	0.999956	3.43768e-05	0.999959
rad26	1.89903e-05	0.999975	1.89904e-05	0.999978
Ph+MeAc	7.42629e-06	0.999983	7.42631e-06	0.999985
rad3	5.32945e-06	0.999988	5.32946e-06	0.999990
rad23	3.03988e-06	0.999991	3.03988e-06	0.999993
rad4	2.77768e-06	0.999994	2.77768e-06	0.999996
Phenyl+Allene	2.45166e-06	0.999996	0.00000	0.999996
rad9	2.18553e-06	0.999999	2.18553e-06	0.999998
rad8	5.77641e-07	0.999999	5.77643e-07	0.999999
rad13	4.31192e-07	1.000000	4.31193e-07	0.999999
PAH7+H	2.24040e-07	1.000000	2.24040e-07	1.000000
rad30	1.07177e-07	1.000000	1.07177e-07	1.000000
rad45	6.81659e-08	1.000000	6.81660e-08	1.000000
PhCH2CCH+H	6.24567e-08	1.000000	6.24569e-08	1.000000
rad39	5.34465e-08	1.000000	5.34466e-08	1.000000
PAH9+H	2.68687e-08	1.000000	2.68688e-08	1.000000
rad15	2.53062e-08	1.000000	2.53063e-08	1.000000
rad12	2.09221e-08	1.000000	2.09221e-08	1.000000
rad35	1.18851e-08	1.000000	1.18851e-08	1.000000
rad38	7.97664e-09	1.000000	7.97666e-09	1.000000
rad36	4.31580e-09	1.000000	4.31581e-09	1.000000

rad22	3.22378e-09	1.00000	3.22379e-09	1.000000
rad37	1.17654e-09	1.00000	1.17655e-09	1.000000
rad33	7.53550e-10	1.00000	7.53552e-10	1.000000
rad14	4.58323e-10	1.00000	4.58324e-10	1.00000
rad27	3.33448e-10	1.00000	3.33449e-10	1.00000
rad25	2.99651e-10	1.00000	2.99652e-10	1.00000
rad46	1.48738e-10	1.00000	1.48739e-10	1.00000
rad5	7.94019e-11	1.00000	7.94021e-11	1.00000
rad60syn	2.52305e-11	1.00000	2.52306e-11	1.00000
rad60anti	9.33007e-12	1.00000	9.33009e-12	1.00000
PAH3+H	4.50769e-13	1.00000	4.50770e-13	1.00000
rad19syn	2.54117e-13	1.00000	2.54117e-13	1.00000
rad59	1.27452e-13	1.00000	1.27453e-13	1.00000
rad20	2.85421e-14	1.00000	2.85421e-14	1.00000
rad31	2.12646e-14	1.00000	2.12647e-14	1.00000
rad21	1.94464e-14	1.00000	1.94464e-14	1.00000
rad50	1.68151e-14	1.00000	1.68151e-14	1.00000
rad18	1.48485e-14	1.00000	1.48485e-14	1.00000
rad54	8.04871e-15	1.00000	8.04873e-15	1.00000
PAH10+CH3	4.79414e-15	1.00000	4.79415e-15	1.00000
rad43	1.19957e-15	1.00000	1.19957e-15	1.00000
rad24	6.30553e-16	1.00000	6.30555e-16	1.00000
rad62	3.81477e-16	1.00000	3.81478e-16	1.00000
PhcycC3H3_A+H	3.73534e-17	1.00000	3.73535e-17	1.00000
rad70	2.22111e-17	1.00000	2.22112e-17	1.00000
rad52	1.27065e-17	1.00000	1.27065e-17	1.00000
rad55	9.86377e-18	1.00000	9.86377e-18	1.00000
PAH1+H	9.68901e-19	1.00000	9.68904e-19	1.00000
rad51	6.78999e-19	1.00000	6.79001e-19	1.00000
rad34	6.13293e-20	1.00000	6.13294e-20	1.00000
rad58	3.13879e-20	1.00000	3.13880e-20	1.00000
rad65	7.20607e-21	1.00000	7.20609e-21	1.00000
rad42	1.04110e-21	1.00000	1.04110e-21	1.00000
rad41	3.05316e-22	1.00000	3.05317e-22	1.00000
rad47	7.46729e-27	1.00000	7.46730e-27	1.00000

1.00000000 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.21641e-16 (1.00)	1.21641e-16 (1.00)
Formation of rad11	9.54219e-17 (0.784)	9.54215e-17 (0.784)
Formation of rad6	2.24583e-17 (0.185)	2.24582e-17 (0.185)
H-abstraction	3.76121e-18 (0.0309)	3.76121e-18 (0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.891269	0.891269	0.891272	0.891272
Indene+H	0.0749282	0.966197	0.0749284	0.966200
Benzene+2-propynyl	0.0309205	0.997118	0.0309206	0.997121
C2H2+PhCH2	0.00155640	0.998674	0.00155641	0.998677
rad2	0.000538061	0.999212	0.000538063	0.999216
PhCCH+CH3	0.000214921	0.999427	0.000214922	0.999430
rad7	0.000126145	0.999553	0.000126145	0.999557
PhCHCCH2+H	0.000112530	0.999666	0.000112530	0.999669
rad28	0.000110554	0.999776	0.000110555	0.999780
PhCCCH3+H	5.88279e-05	0.999835	5.88281e-05	0.999839
rad1	3.84251e-05	0.999874	3.84252e-05	0.999877
rad11	3.74529e-05	0.999911	3.74530e-05	0.999914
rad10	3.61514e-05	0.999947	3.61515e-05	0.999951
rad26	2.24961e-05	0.999970	2.24962e-05	0.999973
Ph+MeAc	1.10463e-05	0.999981	1.10464e-05	0.999984
rad3	5.49183e-06	0.999986	5.49185e-06	0.999990
Phenyl+Allene	3.44745e-06	0.999990	0.00000	0.999990
rad4	2.87185e-06	0.999993	2.87186e-06	0.999992
rad23	2.84727e-06	0.999996	2.84728e-06	0.999995
rad9	2.71556e-06	0.999998	2.71557e-06	0.999998
rad8	8.07690e-07	0.999999	8.07693e-07	0.999999
rad13	4.27953e-07	0.999999	4.27954e-07	0.999999
PAH7+H	3.66789e-07	1.000000	3.66791e-07	1.000000
rad30	1.23515e-07	1.000000	1.23516e-07	1.000000
PhCH2CCH+H	1.02310e-07	1.000000	1.02310e-07	1.000000
rad39	8.88114e-08	1.000000	8.88118e-08	1.000000
rad45	6.36255e-08	1.000000	6.36257e-08	1.000000
rad12	3.24703e-08	1.000000	3.24704e-08	1.000000
PAH9+H	3.19625e-08	1.000000	3.19627e-08	1.000000
rad15	2.98001e-08	1.000000	2.98002e-08	1.000000
rad35	1.39086e-08	1.000000	1.39087e-08	1.000000
rad38	9.60007e-09	1.000000	9.60010e-09	1.000000
rad36	4.04650e-09	1.000000	4.04652e-09	1.000000

rad22	2.99929e-09	1.00000	2.99930e-09	1.00000
rad37	1.98723e-09	1.00000	1.98723e-09	1.00000
rad33	7.52301e-10	1.00000	7.52304e-10	1.00000
rad14	4.71366e-10	1.00000	4.71367e-10	1.00000
rad27	3.51660e-10	1.00000	3.51661e-10	1.00000
rad25	2.97246e-10	1.00000	2.97247e-10	1.00000
rad46	1.93983e-10	1.00000	1.93984e-10	1.00000
rad5	1.40391e-10	1.00000	1.40392e-10	1.00000
rad60syn	3.50341e-11	1.00000	3.50343e-11	1.00000
rad60anti	1.32586e-11	1.00000	1.32586e-11	1.00000
PAH3+H	8.38006e-13	1.00000	8.38009e-13	1.00000
rad19syn	6.06094e-13	1.00000	6.06096e-13	1.00000
rad59	2.31001e-13	1.00000	2.31002e-13	1.00000
rad50	3.21592e-14	1.00000	3.21593e-14	1.00000
rad20	2.94934e-14	1.00000	2.94934e-14	1.00000
rad31	2.43179e-14	1.00000	2.43180e-14	1.00000
rad54	2.13498e-14	1.00000	2.13499e-14	1.00000
rad21	2.01684e-14	1.00000	2.01684e-14	1.00000
rad18	1.44449e-14	1.00000	1.44450e-14	1.00000
PAH10+CH3	1.27139e-14	1.00000	1.27139e-14	1.00000
rad43	3.11917e-15	1.00000	3.11918e-15	1.00000
rad62	1.06165e-15	1.00000	1.06165e-15	1.00000
rad24	5.95674e-16	1.00000	5.95677e-16	1.00000
PhcycC3H3_A+H	1.23750e-16	1.00000	1.23750e-16	1.00000
rad70	7.10576e-17	1.00000	7.10578e-17	1.00000
rad55	3.19896e-17	1.00000	3.19897e-17	1.00000
rad52	3.09039e-17	1.00000	3.09040e-17	1.00000
PAH1+H	3.49547e-18	1.00000	3.49549e-18	1.00000
rad51	1.99220e-18	1.00000	1.99221e-18	1.00000
rad34	2.25879e-19	1.00000	2.25880e-19	1.00000
rad58	1.05420e-19	1.00000	1.05421e-19	1.00000
rad65	2.28624e-20	1.00000	2.28624e-20	1.00000
rad42	4.05764e-21	1.00000	4.05766e-21	1.00000
rad41	1.20115e-21	1.00000	1.20116e-21	1.00000
rad47	2.24262e-26	1.00000	2.24263e-26	1.00000

1.00000000 Pa, 260.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.63720e-16	(1.00)	1.63720e-16	(1.00)
Formation of rad11	1.26419e-16	(0.772)	1.26418e-16	(0.772)
Formation of rad6	3.15515e-17	(0.193)	3.15513e-17	(0.193)
H-abstraction	5.75028e-18	(0.0351)	5.75028e-18	(0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.883289	0.883289	0.883294	0.883294
Indene+H	0.0783225	0.961612	0.0783229	0.961617
Benzene+2-propynyl	0.0351226	0.996734	0.0351227	0.996740
C2H2+PhCH2	0.00175403	0.998488	0.00175404	0.998494
rad2	0.000562851	0.999051	0.000562853	0.999056
PhCCH+CH3	0.000288481	0.999340	0.000288483	0.999345
PhCHCCH2+H	0.000147774	0.999488	0.000147774	0.999493
rad28	0.000128363	0.999616	0.000128364	0.999621
rad7	0.000124473	0.999740	0.000124473	0.999746
PhCCCH3+H	7.95617e-05	0.999820	7.95620e-05	0.999825
rad1	4.06978e-05	0.999861	4.06979e-05	0.999866
rad10	3.77809e-05	0.999898	3.77811e-05	0.999904
rad11	3.69067e-05	0.999935	3.69068e-05	0.999941
rad26	2.62429e-05	0.999962	2.62431e-05	0.999967
Ph+MeAc	1.61643e-05	0.999978	1.61644e-05	0.999983
rad3	5.63906e-06	0.999983	5.63909e-06	0.999989
Phenyl+Allene	4.85691e-06	0.999988	0.000000	0.999989
rad9	3.40048e-06	0.999992	3.40050e-06	0.999992
rad4	2.95945e-06	0.999995	2.95947e-06	0.999995
rad23	2.68041e-06	0.999997	2.68043e-06	0.999998
rad8	1.11508e-06	0.999998	1.11509e-06	0.999999
PAH7+H	5.87663e-07	0.999999	5.87666e-07	0.999999
rad13	4.24505e-07	0.999999	4.24506e-07	1.000000
PhCH2CCH+H	1.65178e-07	1.000000	1.65179e-07	1.000000
rad39	1.44190e-07	1.000000	1.44191e-07	1.000000
rad30	1.43720e-07	1.000000	1.43721e-07	1.000000
rad45	5.97286e-08	1.000000	5.97289e-08	1.000000
rad12	4.91676e-08	1.000000	4.91679e-08	1.000000
PAH9+H	3.84481e-08	1.000000	3.84482e-08	1.000000
rad15	3.54410e-08	1.000000	3.54412e-08	1.000000
rad35	1.64510e-08	1.000000	1.64510e-08	1.000000
rad38	1.16851e-08	1.000000	1.16852e-08	1.000000
rad36	3.81794e-09	1.000000	3.81796e-09	1.000000

rad37	3.25607e-09	1.00000	3.25607e-09	1.00000
rad22	2.80335e-09	1.00000	2.80336e-09	1.00000
rad33	7.50640e-10	1.00000	7.50644e-10	1.00000
rad14	4.83231e-10	1.00000	4.83233e-10	1.00000
rad27	3.68652e-10	1.00000	3.68654e-10	1.00000
rad25	2.94760e-10	1.00000	2.94761e-10	1.00000
rad46	2.55700e-10	1.00000	2.55702e-10	1.00000
rad5	2.40797e-10	1.00000	2.40798e-10	1.00000
rad60syn	4.88604e-11	1.00000	4.88607e-11	1.00000
rad60anti	1.88854e-11	1.00000	1.88854e-11	1.00000
PAH3+H	1.52027e-12	1.00000	1.52028e-12	1.00000
rad19syn	1.36651e-12	1.00000	1.36652e-12	1.00000
rad59	4.09319e-13	1.00000	4.09321e-13	1.00000
rad50	6.00924e-14	1.00000	6.00927e-14	1.00000
rad54	5.29169e-14	1.00000	5.29171e-14	1.00000
PAH10+CH3	3.14289e-14	1.00000	3.14290e-14	1.00000
rad20	3.06045e-14	1.00000	3.06047e-14	1.00000
rad31	2.78791e-14	1.00000	2.78793e-14	1.00000
rad21	2.10087e-14	1.00000	2.10088e-14	1.00000
rad18	1.41162e-14	1.00000	1.41163e-14	1.00000
rad43	7.56773e-15	1.00000	7.56776e-15	1.00000
rad62	2.73880e-15	1.00000	2.73881e-15	1.00000
rad24	5.66206e-16	1.00000	5.66209e-16	1.00000
PhcycC3H3_A+H	3.72239e-16	1.00000	3.72241e-16	1.00000
rad70	2.07234e-16	1.00000	2.07235e-16	1.00000
rad55	9.44384e-17	1.00000	9.44389e-17	1.00000
rad52	7.12803e-17	1.00000	7.12807e-17	1.00000
PAH1+H	1.13056e-17	1.00000	1.13057e-17	1.00000
rad51	5.41050e-18	1.00000	5.41053e-18	1.00000
rad34	7.43640e-19	1.00000	7.43642e-19	1.00000
rad58	3.20960e-19	1.00000	3.20962e-19	1.00000
rad65	6.63489e-20	1.00000	6.63493e-20	1.00000
rad42	1.40258e-20	1.00000	1.40259e-20	1.00000
rad41	4.18633e-21	1.00000	4.18635e-21	1.00000
rad47	6.13071e-26	1.00000	6.13073e-26	1.00000

1.00000000 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.15887e-16 (1.00)	2.15885e-16 (1.00)
Formation of rad11	1.64133e-16 (0.760)	1.64131e-16 (0.760)
Formation of rad6	4.32452e-17 (0.200)	4.32448e-17 (0.200)
H-abstraction	8.50919e-18 (0.0394)	8.50919e-18 (0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.874509	0.874509	0.874514	0.874514
Indene+H	0.0823455	0.956854	0.0823460	0.956860
Benzene+2-propynyl	0.0394150	0.996269	0.0394153	0.996276
C2H2+PhCH2	0.00199361	0.998263	0.00199363	0.998269
rad2	0.000585136	0.998848	0.000585140	0.998854
PhCCH+CH3	0.000384120	0.999232	0.000384122	0.999239
PhCHCCH2+H	0.000193104	0.999425	0.000193104	0.999432
rad28	0.000147767	0.999573	0.000147768	0.999579
rad7	0.000122730	0.999696	0.000122731	0.999702
PhCCCH3+H	0.000106348	0.999802	0.000106348	0.999809
rad1	4.28777e-05	0.999845	4.28781e-05	0.999851
rad10	3.92445e-05	0.999884	3.92448e-05	0.999891
rad11	3.63441e-05	0.999921	3.63444e-05	0.999927
rad26	3.01641e-05	0.999951	3.01643e-05	0.999957
Ph+MeAc	2.32780e-05	0.999974	2.32782e-05	0.999980
Phenyl+Allene	6.84501e-06	0.999981	0.00000	0.999980
rad3	5.76897e-06	0.999987	5.76900e-06	0.999986
rad9	4.28566e-06	0.999991	4.28569e-06	0.999991
rad4	3.03941e-06	0.999994	3.03942e-06	0.999994
rad23	2.53391e-06	0.999997	2.53392e-06	0.999996
rad8	1.52018e-06	0.999998	1.52019e-06	0.999998
PAH7+H	9.21546e-07	0.999999	9.21552e-07	0.999999
rad13	4.20813e-07	0.999999	4.20817e-07	0.999999
PhCH2CCH+H	2.62870e-07	1.000000	2.62872e-07	0.999999
rad39	2.28807e-07	1.000000	2.28807e-07	0.999999
rad30	1.68763e-07	1.000000	1.68764e-07	1.000000
rad12	7.27417e-08	1.000000	7.27422e-08	1.000000
rad45	5.63439e-08	1.000000	5.63442e-08	1.000000
PAH9+H	4.67331e-08	1.000000	4.67335e-08	1.000000
rad15	4.25385e-08	1.000000	4.25388e-08	1.000000
rad35	1.96550e-08	1.000000	1.96552e-08	1.000000
rad38	1.43721e-08	1.000000	1.43722e-08	1.000000
rad37	5.18627e-09	1.000000	5.18630e-09	1.000000

rad36	3.62200e-09	1.00000	3.62203e-09	1.000000
rad22	2.63041e-09	1.00000	2.63043e-09	1.000000
rad33	7.48517e-10	1.00000	7.48521e-10	1.000000
rad14	4.93735e-10	1.00000	4.93739e-10	1.000000
rad5	4.01411e-10	1.00000	4.01414e-10	1.000000
rad27	3.84222e-10	1.00000	3.84225e-10	1.000000
rad46	3.40047e-10	1.00000	3.40049e-10	1.000000
rad25	2.92162e-10	1.00000	2.92164e-10	1.000000
rad60syn	6.83174e-11	1.00000	6.83178e-11	1.000000
rad60anti	2.69174e-11	1.00000	2.69176e-11	1.000000
rad19syn	2.92560e-12	1.00000	2.92562e-12	1.000000
PAH3+H	2.69352e-12	1.00000	2.69354e-12	1.000000
rad59	7.09596e-13	1.00000	7.09601e-13	1.000000
rad54	1.23242e-13	1.00000	1.23243e-13	1.000000
rad50	1.09712e-13	1.00000	1.09712e-13	1.000000
PAH10+CH3	7.28643e-14	1.00000	7.28648e-14	1.000000
rad31	3.20698e-14	1.00000	3.20701e-14	1.000000
rad20	3.18836e-14	1.00000	3.18839e-14	1.000000
rad21	2.19749e-14	1.00000	2.19751e-14	1.000000
rad43	1.72386e-14	1.00000	1.72387e-14	1.000000
rad18	1.38525e-14	1.00000	1.38526e-14	1.000000
rad62	6.59392e-15	1.00000	6.59396e-15	1.000000
PhcycC3H3_A+H	1.02583e-15	1.00000	1.02584e-15	1.000000
rad70	5.55759e-16	1.00000	5.55763e-16	1.000000
rad24	5.41077e-16	1.00000	5.41081e-16	1.000000
rad55	2.56007e-16	1.00000	2.56008e-16	1.000000
rad52	1.56456e-16	1.00000	1.56457e-16	1.000000
PAH1+H	3.31478e-17	1.00000	3.31480e-17	1.000000
rad51	1.36832e-17	1.00000	1.36833e-17	1.000000
rad34	2.21390e-18	1.00000	2.21392e-18	1.000000
rad58	8.94005e-19	1.00000	8.94011e-19	1.000000
rad65	1.77503e-19	1.00000	1.77504e-19	1.000000
rad42	4.35564e-20	1.00000	4.35567e-20	1.000000
rad41	1.30955e-20	1.00000	1.30956e-20	1.000000
rad47	1.54203e-25	1.00000	1.54204e-25	1.000000

1.00000000 Pa, 280.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.79491e-16	(1.00)	2.79489e-16	(1.00)
Formation of rad11	2.09281e-16	(0.749)	2.09279e-16	(0.749)
Formation of rad6	5.79792e-17	(0.207)	5.79786e-17	(0.207)
H-abstraction	1.22310e-17	(0.0438)	1.22310e-17	(0.0438)

species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.864862	0.864862	0.864870	0.864870
Indene+H	0.0870797	0.951942	0.0870805	0.951951
Benzene+2-propynyl	0.0437616	0.995703	0.0437620	0.995713
C2H2+PhCH2	0.00228410	0.997988	0.00228412	0.997997
rad2	0.000604642	0.998592	0.000604647	0.998602
PhCCH+CH3	0.000507136	0.999099	0.000507141	0.999109
PhCHCCH2+H	0.000250819	0.999350	0.000250821	0.999360
rad28	0.000168559	0.999519	0.000168561	0.999528
PhCCCH3+H	0.000140507	0.999659	0.000140508	0.999669
rad7	0.000120905	0.999780	0.000120906	0.999790
rad1	4.49463e-05	0.999825	4.49467e-05	0.999835
rad10	4.05246e-05	0.999866	4.05251e-05	0.999875
rad11	3.57618e-05	0.999901	3.57622e-05	0.999911
rad26	3.41825e-05	0.999936	3.41828e-05	0.999945
Ph+MeAc	3.30021e-05	0.999969	3.30024e-05	0.999978
Phenyl+Allene	9.63372e-06	0.999978	0.000000	0.999978
rad3	5.87973e-06	0.999984	5.87978e-06	0.999984
rad9	5.42769e-06	0.999989	5.42774e-06	0.999989
rad4	3.11073e-06	0.999993	3.11076e-06	0.999992
rad23	2.40374e-06	0.999995	2.40376e-06	0.999995
rad8	2.04676e-06	0.999997	2.04679e-06	0.999997
PAH7+H	1.41487e-06	0.999998	1.41489e-06	0.999998
rad13	4.16841e-07	0.999999	4.16845e-07	0.999999
PhCH2CCH+H	4.12284e-07	0.999999	4.12288e-07	0.999999
rad39	3.55042e-07	1.000000	3.55045e-07	0.999999
rad30	1.99820e-07	1.000000	1.99822e-07	1.000000
rad12	1.05283e-07	1.000000	1.05284e-07	1.000000
PAH9+H	5.73320e-08	1.000000	5.73326e-08	1.000000
rad45	5.33742e-08	1.000000	5.33747e-08	1.000000
rad15	5.14737e-08	1.000000	5.14742e-08	1.000000
rad35	2.36988e-08	1.000000	2.36990e-08	1.000000
rad38	1.78390e-08	1.000000	1.78392e-08	1.000000
rad37	8.04518e-09	1.000000	8.04526e-09	1.000000

rad36	3.45265e-09	1.00000	3.45268e-09	1.00000
rad22	2.47624e-09	1.00000	2.47626e-09	1.00000
rad33	7.45871e-10	1.00000	7.45877e-10	1.00000
rad5	6.51410e-10	1.00000	6.51416e-10	1.00000
rad14	5.02723e-10	1.00000	5.02728e-10	1.00000
rad46	4.55243e-10	1.00000	4.55247e-10	1.00000
rad27	3.98198e-10	1.00000	3.98201e-10	1.00000
rad25	2.89415e-10	1.00000	2.89419e-10	1.00000
rad60syn	9.55751e-11	1.00000	9.55760e-11	1.00000
rad60anti	3.83184e-11	1.00000	3.83188e-11	1.00000
rad19syn	5.96995e-12	1.00000	5.97000e-12	1.00000
PAH3+H	4.66230e-12	1.00000	4.66235e-12	1.00000
rad59	1.20391e-12	1.00000	1.20393e-12	1.00000
rad54	2.70976e-13	1.00000	2.70979e-13	1.00000
rad50	1.95654e-13	1.00000	1.95656e-13	1.00000
PAH10+CH3	1.59257e-13	1.00000	1.59258e-13	1.00000
rad43	3.70627e-14	1.00000	3.70629e-14	1.00000
rad31	3.70497e-14	1.00000	3.70500e-14	1.00000
rad20	3.33415e-14	1.00000	3.33419e-14	1.00000
rad21	2.30770e-14	1.00000	2.30772e-14	1.00000
rad62	1.49015e-14	1.00000	1.49017e-14	1.00000
rad18	1.36460e-14	1.00000	1.36462e-14	1.00000
PhcycC3H3_A+H	2.61052e-15	1.00000	2.61055e-15	1.00000
rad70	1.38084e-15	1.00000	1.38086e-15	1.00000
rad55	6.42131e-16	1.00000	6.42138e-16	1.00000
rad24	5.19495e-16	1.00000	5.19499e-16	1.00000
rad52	3.27703e-16	1.00000	3.27707e-16	1.00000
PAH1+H	8.89561e-17	1.00000	8.89570e-17	1.00000
rad51	3.23946e-17	1.00000	3.23950e-17	1.00000
rad34	6.02041e-18	1.00000	6.02046e-18	1.00000
rad58	2.29668e-18	1.00000	2.29670e-18	1.00000
rad65	4.40747e-19	1.00000	4.40751e-19	1.00000
rad42	1.22875e-19	1.00000	1.22877e-19	1.00000
rad41	3.71837e-20	1.00000	3.71841e-20	1.00000
rad47	3.60155e-25	1.00000	3.60158e-25	1.00000

1.00000000 Pa, 290.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.55893e-16	(1.00)	3.55889e-16	(1.00)
Formation of rad11	2.62555e-16	(0.738)	2.62551e-16	(0.738)
Formation of rad6	7.62093e-17	(0.214)	7.62082e-17	(0.214)
H-abstraction	1.71289e-17	(0.0481)	1.71289e-17	(0.0481)
species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.854277	0.854277	0.854288	0.854288
Indene+H	0.0926099	0.946887	0.0926110	0.946899
Benzene+2-propynyl	0.0481294	0.995016	0.0481300	0.995029
C2H2+PhCH2	0.00263585	0.997652	0.00263589	0.997665
PhCCH+CH3	0.000663619	0.998316	0.000663629	0.998329
rad2	0.000621149	0.998937	0.000621158	0.998950
PhCHCCH2+H	0.000323536	0.999261	0.000323541	0.999273
rad28	0.000190459	0.999451	0.000190462	0.999464
PhCCCH3+H	0.000183504	0.999635	0.000183507	0.999647
rad7	0.000118985	0.999754	0.000118987	0.999766
rad1	4.68863e-05	0.999800	4.68869e-05	0.999813
Ph+MeAc	4.60764e-05	0.999847	4.60771e-05	0.999859
rad10	4.16074e-05	0.999888	4.16080e-05	0.999901
rad26	3.82142e-05	0.999926	3.82147e-05	0.999939
rad11	3.51558e-05	0.999962	3.51563e-05	0.999974
Phenyl+Allene	1.35156e-05	0.999975	0.00000	0.999974
rad9	6.89588e-06	0.999982	6.89597e-06	0.999981
rad3	5.96990e-06	0.999988	5.96999e-06	0.999987
rad4	3.17262e-06	0.999991	3.17267e-06	0.999990
rad8	2.72193e-06	0.999994	2.72197e-06	0.999993
rad23	2.28692e-06	0.999996	2.28695e-06	0.999995
PAH7+H	2.12776e-06	0.999998	2.12779e-06	0.999997
PhCH2CCH+H	6.37018e-07	0.999999	6.37027e-07	0.999998
rad39	5.39050e-07	0.999999	5.39057e-07	0.999999
rad13	4.12544e-07	1.000000	4.12550e-07	0.999999
rad30	2.38295e-07	1.000000	2.38298e-07	0.999999
rad12	1.49253e-07	1.000000	1.49255e-07	0.999999
PAH9+H	7.08825e-08	1.000000	7.08835e-08	0.999999
rad15	6.27084e-08	1.000000	6.27092e-08	1.000000
rad45	5.07469e-08	1.000000	5.07476e-08	1.000000
rad35	2.87997e-08	1.000000	2.88002e-08	1.000000
rad38	2.23089e-08	1.000000	2.23092e-08	1.000000
rad37	1.21742e-08	1.000000	1.21743e-08	1.000000

rad36	3.30539e-09	1.00000	3.30544e-09	1.000000
rad22	2.33758e-09	1.00000	2.33761e-09	1.000000
rad5	1.03049e-09	1.00000	1.03050e-09	1.000000
rad33	7.42631e-10	1.00000	7.42641e-10	1.000000
rad46	6.12080e-10	1.00000	6.12089e-10	1.000000
rad14	5.10065e-10	1.00000	5.10071e-10	1.000000
rad27	4.10433e-10	1.00000	4.10440e-10	1.000000
rad25	2.86486e-10	1.00000	2.86490e-10	1.000000
rad60syn	1.33507e-10	1.00000	1.33508e-10	1.000000
rad60anti	5.43757e-11	1.00000	5.43764e-11	1.000000
rad19syn	1.16476e-11	1.00000	1.16477e-11	1.000000
PAH3+H	7.88522e-12	1.00000	7.88533e-12	1.000000
rad59	1.99912e-12	1.00000	1.99915e-12	1.000000
rad54	5.64774e-13	1.00000	5.64782e-13	1.000000
rad50	3.40676e-13	1.00000	3.40681e-13	1.000000
PAH10+CH3	3.29633e-13	1.00000	3.29637e-13	1.000000
rad43	7.55498e-14	1.00000	7.55509e-14	1.000000
rad31	4.30301e-14	1.00000	4.30306e-14	1.000000
rad20	3.49910e-14	1.00000	3.49915e-14	1.000000
rad62	3.17683e-14	1.00000	3.17688e-14	1.000000
rad21	2.43265e-14	1.00000	2.43268e-14	1.000000
rad18	1.34899e-14	1.00000	1.34901e-14	1.000000
PhcycC3H3_A+H	6.17735e-15	1.00000	6.17744e-15	1.000000
rad70	3.19960e-15	1.00000	3.19964e-15	1.000000
rad55	1.50030e-15	1.00000	1.50032e-15	1.000000
rad52	6.56487e-16	1.00000	6.56496e-16	1.000000
rad24	5.00871e-16	1.00000	5.00878e-16	1.000000
PAH1+H	2.20351e-16	1.00000	2.20354e-16	1.000000
rad51	7.21308e-17	1.00000	7.21318e-17	1.000000
rad34	1.50859e-17	1.00000	1.50862e-17	1.000000
rad58	5.48063e-18	1.00000	5.48071e-18	1.000000
rad65	1.02192e-18	1.00000	1.02194e-18	1.000000
rad42	3.17945e-19	1.00000	3.17948e-19	1.000000
rad41	9.67757e-20	1.00000	9.67766e-20	1.000000
rad47	7.87269e-25	1.00000	7.87280e-25	1.000000

1.00000000 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34395e-16 (1.00)	6.34375e-16 (1.00)
Formation of rad11	4.51153e-16 (0.711)	4.51138e-16 (0.711)
Formation of rad6	1.51589e-16 (0.239)	1.51584e-16 (0.239)
H-abstraction	3.16530e-17 (0.0499)	3.16530e-17 (0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.811364	0.811364	0.811388	0.811388
Indene+H	0.128477	0.939841	0.128482	0.939870
Benzene+2-propynyl	0.0498949	0.989736	0.0498964	0.989766
C2H2+PhCH2	0.00563395	0.995370	0.00563412	0.995401
PhCCH+CH3	0.00190605	0.997276	0.00190611	0.997307
PhCHCCH2+H	0.000808368	0.998084	0.000808394	0.998115
rad2	0.000635695	0.998720	0.000635715	0.998751
PhCCCH3+H	0.000505674	0.999226	0.000505689	0.999256
rad28	0.000285186	0.999511	0.000285195	0.999542
Ph+MeAc	0.000145303	0.999656	0.000145308	0.999687
rad7	0.000113547	0.999770	0.000113551	0.999801
rad26	5.09964e-05	0.999821	5.09980e-05	0.999852
rad1	4.79021e-05	0.999869	4.79037e-05	0.999899
rad10	4.06485e-05	0.999909	4.06498e-05	0.999940
rad11	3.17800e-05	0.999941	3.17809e-05	0.999972
Phenyl+Allene	3.06198e-05	0.999972	0.00000	0.999972
PAH7+H	9.96812e-06	0.999982	9.96849e-06	0.999982
rad3	6.28593e-06	0.999988	6.28612e-06	0.999988
rad4	3.12602e-06	0.999991	3.12611e-06	0.999991
rad23	2.67532e-06	0.999994	2.67540e-06	0.999994
PhCH2CCH+H	2.43718e-06	0.999996	2.43726e-06	0.999996
rad39	2.20663e-06	0.999998	2.20670e-06	0.999999
rad13	4.49526e-07	0.999999	4.49540e-07	0.999999
rad30	4.34968e-07	0.999999	4.34981e-07	0.999999
PAH9+H	1.75929e-07	1.000000	1.75934e-07	1.000000
rad19anti	1.54077e-07	1.000000	1.54081e-07	1.000000
rad45	6.80187e-08	1.000000	6.80208e-08	1.000000
rad35	6.00912e-08	1.000000	6.00930e-08	1.000000
rad37	5.02525e-08	1.000000	5.02540e-08	1.000000
rad38	4.88938e-08	1.000000	4.88954e-08	1.000000
rad9	8.02700e-09	1.000000	8.02725e-09	1.000000
rad22	4.07862e-09	1.000000	4.07875e-09	1.000000
rad36	2.31828e-09	1.000000	2.31835e-09	1.000000

rad46	1.66050e-09	1.000000	1.66055e-09	1.00000
rad33	1.00416e-09	1.000000	1.00419e-09	1.00000
rad14	6.02827e-10	1.000000	6.02845e-10	1.00000
rad27	5.46535e-10	1.000000	5.46551e-10	1.00000
rad25	3.94653e-10	1.000000	3.94664e-10	1.00000
rad60syn	3.55631e-10	1.000000	3.55642e-10	1.00000
rad60anti	1.52906e-10	1.000000	1.52911e-10	1.00000
rad19syn	6.80917e-11	1.000000	6.80937e-11	1.00000
PAH3+H	3.82813e-11	1.000000	3.82824e-11	1.00000
rad59	7.95027e-12	1.000000	7.95051e-12	1.00000
rad15	4.91953e-12	1.000000	4.91967e-12	1.00000
rad54	3.90412e-12	1.000000	3.90423e-12	1.00000
PAH10+CH3	2.49492e-12	1.000000	2.49500e-12	1.00000
rad50	1.58106e-12	1.000000	1.58111e-12	1.00000
rad20	7.75269e-13	1.000000	7.75292e-13	1.00000
rad21	6.32838e-13	1.000000	6.32857e-13	1.00000
rad67	5.04546e-13	1.000000	5.04561e-13	1.00000
rad43	4.72390e-13	1.000000	4.72405e-13	1.00000
rad18	3.00896e-13	1.000000	3.00905e-13	1.00000
rad62	2.15781e-13	1.000000	2.15788e-13	1.00000
rad31	1.36766e-13	1.000000	1.36769e-13	1.00000
PhcycC3H3_A+H	7.48974e-14	1.000000	7.48997e-14	1.00000
rad5	4.77598e-14	1.000000	4.77612e-14	1.00000
rad70	2.86430e-14	1.000000	2.86439e-14	1.00000
rad55	1.29140e-14	1.000000	1.29144e-14	1.00000
rad52	4.23828e-15	1.000000	4.23840e-15	1.00000
PAH1+H	3.75536e-15	1.000000	3.75547e-15	1.00000
rad24	8.15374e-16	1.000000	8.15398e-16	1.00000
rad51	5.68092e-16	1.000000	5.68109e-16	1.00000
rad34	2.41253e-16	1.000000	2.41261e-16	1.00000
rad12	8.33448e-17	1.000000	8.33474e-17	1.00000
rad58	4.50918e-17	1.000000	4.50932e-17	1.00000
rad65	9.41798e-18	1.000000	9.41827e-18	1.00000
rad42	7.75361e-18	1.000000	7.75385e-18	1.00000
rad41	2.50101e-18	1.000000	2.50108e-18	1.00000
rad53	1.45469e-19	1.000000	1.45473e-19	1.00000
rad64	3.39742e-20	1.000000	3.39753e-20	1.00000
rad56	3.55617e-22	1.000000	3.55628e-22	1.00000
rad61	4.64150e-23	1.000000	4.64165e-23	1.00000
rad68syn	3.69556e-23	1.000000	3.69567e-23	1.00000
rad68anti	2.65961e-23	1.000000	2.65969e-23	1.00000
rad47	4.06588e-24	1.000000	4.06601e-24	1.00000
rad40syn	6.04956e-26	1.000000	6.04975e-26	1.00000
rad73	2.31307e-26	1.000000	2.31314e-26	1.00000
rad40anti	1.64407e-26	1.000000	1.64413e-26	1.00000
PAH8+H	1.44621e-26	1.000000	1.44626e-26	1.00000
rad71	5.70760e-28	1.000000	5.70779e-28	1.00000
rad72	1.00844e-33	1.000000	1.00847e-33	1.00000
rad8	1.11359e-36	1.000000	1.11363e-36	1.00000

1.00000000 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.11288e-15 (1.00)	5.11084e-15 (1.00)
Formation of rad11	3.08094e-15 (0.603)	3.07958e-15 (0.603)
Formation of rad6	1.54092e-15 (0.301)	1.54024e-15 (0.301)
H-abstraction	4.91025e-16 (0.0960)	4.91025e-16 (0.0961)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.585762	0.585762	0.585996	0.585996
Indene+H	0.276239	0.862001	0.276351	0.862347
Benzene+2-propynyl	0.0960368	0.958038	0.0960752	0.958422
C2H2+PhCH2	0.0225911	0.980629	0.0226001	0.981022
PhCCH+CH3	0.0101626	0.990792	0.0101666	0.991189
PhCHCCH2+H	0.00407078	0.994863	0.00407241	0.995261
PhCCCH3+H	0.00238326	0.997246	0.00238422	0.997646
Ph+MeAc	0.00102679	0.998273	0.00102720	0.998673
rad2	0.000509540	0.998782	0.000509743	0.999182
Phenyl+Allene	0.000399655	0.999182	0.00000	0.999182
rad28	0.000385859	0.999568	0.000386014	0.999568
PAH7+H	0.000102383	0.999670	0.000102424	0.999671
rad7	8.14918e-05	0.999752	8.15244e-05	0.999752
rad26	5.69060e-05	0.999808	5.69288e-05	0.999809
rad1	4.74197e-05	0.999856	4.74386e-05	0.999857
PhCH2CCH+H	4.63097e-05	0.999902	4.63282e-05	0.999903
rad10	3.25175e-05	0.999935	3.25304e-05	0.999936
rad39	2.40278e-05	0.999959	2.40374e-05	0.999960
rad11	2.29631e-05	0.999982	2.29723e-05	0.999983

rad3	5.35863e-06	0.999987	5.36077e-06	0.999988
rad23	2.87731e-06	0.999990	2.87846e-06	0.999991
rad4	2.82204e-06	0.999993	2.82317e-06	0.999994
rad30	2.22526e-06	0.999995	2.22615e-06	0.999996
rad19anti	1.38887e-06	0.999996	1.38942e-06	0.999997
PAH9+H	1.20030e-06	0.999998	1.20077e-06	0.999999
rad37	4.92185e-07	0.999998	4.92382e-07	0.999999
rad35	3.69788e-07	0.999998	3.69936e-07	0.999999
rad38	3.61381e-07	0.999999	3.61526e-07	1.000000
rad13	3.57740e-07	0.999999	3.57883e-07	1.000000
rad45	1.00283e-07	0.999999	1.00323e-07	1.000000
rad46	1.85356e-08	0.999999	1.85430e-08	1.000000
rad9	7.88010e-09	0.999999	7.88325e-09	1.000000
rad60syn	4.33300e-09	0.999999	4.33474e-09	1.000000
rad19syn	4.16405e-09	0.999999	4.16571e-09	1.000000
rad36	3.84230e-09	0.999999	3.84383e-09	1.000000
rad22	3.25190e-09	0.999999	3.25320e-09	1.000000
rad60anti	2.01532e-09	0.999999	2.01613e-09	1.000000
PAH3+H	1.18721e-09	0.999999	1.18769e-09	1.000000
rad33	8.85266e-10	0.999999	8.85620e-10	1.000000
rad14	5.16344e-10	0.999999	5.16551e-10	1.000000
rad27	4.91208e-10	0.999999	4.91404e-10	1.000000
rad54	3.97499e-10	0.999999	3.97657e-10	1.000000
rad25	3.22163e-10	0.999999	3.22293e-10	1.000000
rad59	2.28131e-10	0.999999	2.28223e-10	1.000000
PAH10+CH3	1.89702e-10	0.999999	1.89778e-10	1.000000
rad50	6.79722e-11	0.999999	6.79994e-11	1.000000
rad43	3.07023e-11	0.999999	3.07146e-11	1.000000
PhcycC3H3_A+H	2.38574e-11	0.999999	2.38670e-11	1.000000
rad62	2.17180e-11	0.999999	2.17266e-11	1.000000
rad67	2.14696e-11	0.999999	2.14782e-11	1.000000
rad70	7.61848e-12	0.999999	7.62153e-12	1.000000
rad15	4.93408e-12	0.999999	4.93605e-12	1.000000
rad55	3.50324e-12	0.999999	3.50463e-12	1.000000
PAH1+H	2.22296e-12	0.999999	2.22385e-12	1.000000
rad20	1.58709e-12	0.999999	1.58772e-12	1.000000
rad31	1.45794e-12	0.999999	1.45852e-12	1.000000
rad21	1.44706e-12	0.999999	1.44764e-12	1.000000
rad52	4.42477e-13	0.999999	4.42655e-13	1.000000
rad18	3.52483e-13	0.999999	3.52625e-13	1.000000
rad34	1.77407e-13	0.999999	1.77478e-13	1.000000
rad51	1.41346e-13	0.999999	1.41403e-13	1.000000
rad5	6.28108e-14	0.999999	6.28360e-14	1.000000
rad58	1.75166e-14	0.999999	1.75237e-14	1.000000
rad42	7.47615e-15	0.999999	7.47914e-15	1.000000
rad65	3.35681e-15	0.999999	3.35815e-15	1.000000
rad41	2.38476e-15	0.999999	2.38571e-15	1.000000
rad24	1.57775e-15	0.999999	1.57838e-15	1.000000
rad53	9.20479e-16	0.999999	9.20846e-16	1.000000
rad64	3.20851e-16	0.999999	3.20979e-16	1.000000
rad12	1.33342e-16	0.999999	1.33395e-16	1.000000
rad56	1.66438e-17	0.999999	1.66505e-17	1.000000
rad68syn	1.91531e-18	0.999999	1.91607e-18	1.000000
rad68anti	1.37686e-18	0.999999	1.37742e-18	1.000000
rad61	1.14309e-18	0.999999	1.14355e-18	1.000000
rad73	6.45268e-20	0.999999	6.45525e-20	1.000000
PAH8+H	2.01282e-20	0.999999	2.01363e-20	1.000000
rad40syn	1.92063e-20	0.999999	1.92140e-20	1.000000
rad71	1.52503e-20	0.999999	1.52564e-20	1.000000
rad40anti	6.11505e-21	0.999999	6.11749e-21	1.000000
rad47	7.43766e-22	0.999999	7.44063e-22	1.000000
rad72	8.38249e-24	0.999999	8.38584e-24	1.000000
rad8	1.06321e-33	0.999999	1.06363e-33	1.000000

1.00000000 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.11551e-14 (1.00)	2.11047e-14 (1.00)
Formation of rad11	1.10850e-14 (0.524)	1.10543e-14 (0.524)
Formation of rad6	7.08033e-15 (0.335)	7.06070e-15 (0.335)
H-abstraction	2.98976e-15 (0.141)	2.98976e-15 (0.142)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.447340	0.447340	0.448408	0.448408
rad6	0.302466	0.749806	0.303189	0.751597
Benzene+2-propynyl	0.141326	0.891132	0.141663	0.893260
C2H2+PhCH2	0.0587089	0.949841	0.0588491	0.952109
PhCCH+CH3	0.0269075	0.976749	0.0269717	0.979081

PhCHCCH2+H	0.0107069	0.987455	0.0107325	0.989813
PhCCCH3+H	0.00534848	0.992804	0.00536124	0.995174
Ph+MeAc	0.00317864	0.995983	0.00318622	0.998361
Phenyl+Allene	0.00238141	0.998364	0.000000	0.998361
PAH7+H	0.000447954	0.998812	0.000449024	0.998810
PhCH2CCH+H	0.000360175	0.999172	0.000361035	0.999171
rad2	0.000283119	0.999455	0.000283795	0.999454
rad28	0.000258986	0.999714	0.000259604	0.999714
rad39	0.000108459	0.999823	0.000108718	0.999823
rad7	4.29476e-05	0.999866	4.30501e-05	0.999866
rad1	3.38077e-05	0.999899	3.38884e-05	0.999900
rad26	3.27696e-05	0.999932	3.28479e-05	0.999933
rad10	1.55781e-05	0.999948	1.56152e-05	0.999948
rad11	1.23750e-05	0.999960	1.24044e-05	0.999961
rad23	8.75144e-06	0.999969	8.77238e-06	0.999969
rad30	6.95702e-06	0.999976	6.97363e-06	0.999976
rad19anti	6.50941e-06	0.999982	6.52495e-06	0.999983
PAH9+H	4.99377e-06	0.999987	5.00570e-06	0.999988
rad3	3.91114e-06	0.999991	3.92048e-06	0.999992
rad4	2.20221e-06	0.999993	2.20746e-06	0.999994
rad37	1.87776e-06	0.999995	1.88224e-06	0.999996
rad38	1.59755e-06	0.999997	1.60136e-06	0.999997
rad35	1.41145e-06	0.999998	1.41481e-06	0.999999
rad45	7.80736e-07	0.999999	7.82599e-07	1.000000
rad13	2.18676e-07	0.999999	2.19198e-07	1.000000
rad46	1.12014e-07	0.999999	1.12282e-07	1.000000
rad19syn	7.33168e-08	1.000000	7.34918e-08	1.000000
rad36	3.68762e-08	1.000000	3.69643e-08	1.000000
rad60syn	2.52157e-08	1.000000	2.52760e-08	1.000000
PAH3+H	1.36752e-08	1.000000	1.37079e-08	1.000000
rad60anti	1.23759e-08	1.000000	1.24055e-08	1.000000
rad9	1.04538e-08	1.000000	1.04788e-08	1.000000
rad54	1.00241e-08	1.000000	1.00480e-08	1.000000
rad22	5.53818e-09	1.000000	5.55141e-09	1.000000
PAH10+CH3	3.42848e-09	1.000000	3.43667e-09	1.000000
rad59	2.44017e-09	1.000000	2.44600e-09	1.000000
PhcycC3H3_A+H	1.24755e-09	1.000000	1.25053e-09	1.000000
rad50	1.18978e-09	1.000000	1.19262e-09	1.000000
rad33	6.43239e-10	1.000000	6.44774e-10	1.000000
rad62	4.74122e-10	1.000000	4.75254e-10	1.000000
rad43	4.62409e-10	1.000000	4.63513e-10	1.000000
rad67	3.85761e-10	1.000000	3.86682e-10	1.000000
rad70	3.38951e-10	1.000000	3.39760e-10	1.000000
rad14	3.05867e-10	1.000000	3.06596e-10	1.000000
rad27	2.82867e-10	1.000000	2.83542e-10	1.000000
rad25	2.06552e-10	1.000000	2.07045e-10	1.000000
PAH1+H	1.63729e-10	1.000000	1.64120e-10	1.000000
rad55	1.58063e-10	1.000000	1.58440e-10	1.000000
rad52	1.64179e-11	1.000000	1.64570e-11	1.000000
rad34	1.41146e-11	1.000000	1.41483e-11	1.000000
rad51	1.26358e-11	1.000000	1.26660e-11	1.000000
rad31	1.17106e-11	1.000000	1.17386e-11	1.000000
rad15	6.84018e-12	1.000000	6.85651e-12	1.000000
rad21	4.19014e-12	1.000000	4.20014e-12	1.000000
rad20	3.90952e-12	1.000000	3.91886e-12	1.000000
rad58	1.00952e-12	1.000000	1.01193e-12	1.000000
rad42	6.27860e-13	1.000000	6.29359e-13	1.000000
rad18	4.29129e-13	1.000000	4.30154e-13	1.000000
rad65	3.61550e-13	1.000000	3.62413e-13	1.000000
rad53	2.40223e-13	1.000000	2.40796e-13	1.000000
rad41	2.06882e-13	1.000000	2.07376e-13	1.000000
rad64	9.86849e-14	1.000000	9.89208e-14	1.000000
rad5	4.53987e-14	1.000000	4.55071e-14	1.000000
rad56	1.48225e-14	1.000000	1.48579e-14	1.000000
rad24	1.41693e-14	1.000000	1.42032e-14	1.000000
rad73	9.90077e-15	1.000000	9.92443e-15	1.000000
rad71	7.79961e-15	1.000000	7.81823e-15	1.000000
rad68syn	1.68800e-15	1.000000	1.69202e-15	1.000000
rad61	1.38822e-15	1.000000	1.39153e-15	1.000000
rad68anti	1.18214e-15	1.000000	1.18496e-15	1.000000
rad12	4.62462e-16	1.000000	4.63566e-16	1.000000
PAH8+H	3.82269e-16	1.000000	3.83181e-16	1.000000
rad40syn	1.08262e-16	1.000000	1.08520e-16	1.000000
rad72	8.78690e-17	1.000000	8.80782e-17	1.000000
rad40anti	6.18541e-17	1.000000	6.20017e-17	1.000000
rad47	5.16867e-20	1.000000	5.18101e-20	1.000000
rad8	4.27166e-30	1.000000	4.28185e-30	1.000000

1.00000000 Pa, 600.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.08120e-14 (1.00)	6.03090e-14 (1.00)
Formation of rad11	2.83304e-14 (0.466)	2.80438e-14 (0.465)
Formation of rad6	2.13840e-14 (0.352)	2.11677e-14 (0.351)
H-abstraction	1.10975e-14 (0.182)	1.10975e-14 (0.184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.516394	0.516394	0.520700	0.520700
Benzene+2-propynyl	0.182488	0.698882	0.184010	0.704710
rad6	0.112163	0.811044	0.113098	0.817808
C2H2+PhCH2	0.101419	0.912463	0.102265	0.920073
PhCCH+CH3	0.0443472	0.956810	0.0447170	0.964790
PhCHCCH2+H	0.0186682	0.975479	0.0188239	0.983614
Phenyl+Allene	0.00827077	0.983749	0.000000	0.983614
PhCCCH3+H	0.00718358	0.990933	0.00724349	0.990857
Ph+MeAc	0.00569884	0.996632	0.00574637	0.996604
PhCH2CCH+H	0.00153821	0.998170	0.00155103	0.998155
PAH7+H	0.00115704	0.999327	0.00116669	0.999321
rad39	0.000282942	0.999610	0.000285303	0.999607
rad2	0.000136890	0.999747	0.000138032	0.999745
rad28	0.000107144	0.999854	0.000108038	0.999853
rad1	2.01952e-05	0.999874	2.03637e-05	0.999873
rad19anti	1.97146e-05	0.999894	1.98791e-05	0.999893
rad23	1.91201e-05	0.999913	1.92796e-05	0.999912
rad7	1.68696e-05	0.999930	1.70103e-05	0.999929
rad30	1.41579e-05	0.999944	1.42760e-05	0.999944
PAH9+H	1.39168e-05	0.999958	1.40329e-05	0.999958
rad26	1.17406e-05	0.999970	1.18385e-05	0.999970
rad11	5.09313e-06	0.999975	5.13560e-06	0.999975
rad10	4.84395e-06	0.999980	4.88435e-06	0.999980
rad38	4.70021e-06	0.999984	4.73941e-06	0.999984
rad37	3.93086e-06	0.999988	3.96364e-06	0.999988
rad35	3.62059e-06	0.999992	3.65078e-06	0.999992
rad45	2.56314e-06	0.999995	2.58453e-06	0.999994
rad3	2.29674e-06	0.999997	2.31590e-06	0.999997
rad4	1.40244e-06	0.999998	1.41413e-06	0.999998
rad19syn	5.68528e-07	0.999999	5.73269e-07	0.999999
rad46	4.37346e-07	0.999999	4.40993e-07	0.999999
rad36	1.70522e-07	0.999999	1.71944e-07	0.999999
rad13	1.07955e-07	1.000000	1.08855e-07	0.999999
rad54	1.00188e-07	1.000000	1.01024e-07	1.000000
rad60syn	8.59377e-08	1.000000	8.66549e-08	1.000000
PAH3+H	7.99329e-08	1.000000	8.05996e-08	1.000000
rad60anti	4.39981e-08	1.000000	4.43650e-08	1.000000
PAH10+CH3	2.60721e-08	1.000000	2.62895e-08	1.000000
PhcycC3H3_A+H	2.05177e-08	1.000000	2.06888e-08	1.000000
rad9	1.94516e-08	1.000000	1.96139e-08	1.000000
rad50	1.72565e-08	1.000000	1.74004e-08	1.000000
rad59	1.32970e-08	1.000000	1.34079e-08	1.000000
rad22	9.64664e-09	1.000000	9.72709e-09	1.000000
rad70	4.86983e-09	1.000000	4.91044e-09	1.000000
rad62	3.92070e-09	1.000000	3.95340e-09	1.000000
rad67	3.71109e-09	1.000000	3.74204e-09	1.000000
PAH1+H	3.32508e-09	1.000000	3.35281e-09	1.000000
rad43	2.85165e-09	1.000000	2.87543e-09	1.000000
rad55	2.28501e-09	1.000000	2.30407e-09	1.000000
rad51	1.84044e-09	1.000000	1.85579e-09	1.000000
rad52	7.54972e-10	1.000000	7.61269e-10	1.000000
rad33	4.38327e-10	1.000000	4.41983e-10	1.000000
rad34	2.97422e-10	1.000000	2.99902e-10	1.000000
rad14	1.35055e-10	1.000000	1.36181e-10	1.000000
rad27	1.16695e-10	1.000000	1.17668e-10	1.000000
rad25	1.10435e-10	1.000000	1.11356e-10	1.000000
rad65	5.07610e-11	1.000000	5.11843e-11	1.000000
rad71	3.38648e-11	1.000000	3.41471e-11	1.000000
rad73	2.66773e-11	1.000000	2.68998e-11	1.000000
rad31	2.36114e-11	1.000000	2.38083e-11	1.000000
rad58	1.91411e-11	1.000000	1.93007e-11	1.000000
rad21	1.71134e-11	1.000000	1.72561e-11	1.000000
rad42	1.30220e-11	1.000000	1.31306e-11	1.000000
rad20	1.28053e-11	1.000000	1.29121e-11	1.000000
rad15	1.23609e-11	1.000000	1.24640e-11	1.000000
rad53	1.10560e-11	1.000000	1.11482e-11	1.000000
rad41	6.64572e-12	1.000000	6.70115e-12	1.000000
rad64	5.52553e-12	1.000000	5.57161e-12	1.000000
rad56	1.52320e-12	1.000000	1.53591e-12	1.000000
rad72	9.61369e-13	1.000000	9.69388e-13	1.000000
PAH8+H	6.03730e-13	1.000000	6.08764e-13	1.000000

rad61	6.00082e-13	1.000000	6.05087e-13	1.000000
rad18	5.86470e-13	1.000000	5.91361e-13	1.000000
rad68syn	2.70094e-13	1.000000	2.72346e-13	1.000000
rad68anti	1.81693e-13	1.000000	1.83208e-13	1.000000
rad24	1.60388e-13	1.000000	1.61726e-13	1.000000
rad40syn	1.07595e-13	1.000000	1.08492e-13	1.000000
rad40anti	8.21918e-14	1.000000	8.28768e-14	1.000000
rad5	2.33444e-14	1.000000	2.35390e-14	1.000000
rad12	7.11901e-15	1.000000	7.17838e-15	1.000000
rad47	2.56224e-18	1.000000	2.58360e-18	1.000000
rad8	5.54021e-26	1.000000	5.58641e-26	1.000000

1.00000000 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.39564e-13 (1.00)	1.36704e-13 (1.00)
Formation of rad11	5.88273e-14 (0.422)	5.72839e-14 (0.419)
Formation of rad6	5.01684e-14 (0.359)	4.88521e-14 (0.357)
H-abstraction	3.05678e-14 (0.219)	3.05678e-14 (0.224)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.486256	0.486256	0.496428	0.496428
Benzene+2-propynyl	0.219024	0.705280	0.223606	0.720034
C2H2+PhCH2	0.136192	0.841472	0.139041	0.859075
PhCCH+CH3	0.0563624	0.897834	0.0575415	0.916617
rad6	0.0325838	0.930418	0.0332655	0.949882
PhCHCCH2+H	0.0269443	0.957363	0.0275079	0.977390
Phenyl+Allene	0.0204905	0.977853	0.000000	0.977390
Ph+MeAc	0.00749969	0.985353	0.00765659	0.985047
PhCCCH3+H	0.00718305	0.992536	0.00733331	0.992380
PhCH2CCH+H	0.00447324	0.997009	0.00456682	0.996947
PAH7+H	0.00220921	0.999218	0.00225542	0.999202
rad39	0.000536555	0.999755	0.000547779	0.999750
rad19anti	4.60684e-05	0.999801	4.70321e-05	0.999797
rad2	4.56857e-05	0.999847	4.66414e-05	0.999844
rad28	3.28312e-05	0.999879	3.35180e-05	0.999877
PAH9+H	3.04113e-05	0.999910	3.10475e-05	0.999908
rad30	2.20999e-05	0.999932	2.25622e-05	0.999931
rad23	1.49276e-05	0.999947	1.52398e-05	0.999946
rad38	1.07918e-05	0.999958	1.10177e-05	0.999957
rad1	7.65294e-06	0.999965	7.81301e-06	0.999965
rad35	7.30656e-06	0.999973	7.45941e-06	0.999972
rad37	5.85115e-06	0.999978	5.97354e-06	0.999978
rad7	5.51490e-06	0.999984	5.63027e-06	0.999984
rad26	3.15117e-06	0.999987	3.21710e-06	0.999987
rad19syn	2.60426e-06	0.999990	2.65873e-06	0.999990
rad45	2.30765e-06	0.999992	2.35592e-06	0.999992
rad11	1.81508e-06	0.999994	1.85305e-06	0.999994
rad46	1.29907e-06	0.999995	1.32624e-06	0.999995
rad10	1.16948e-06	0.999996	1.19395e-06	0.999997
rad3	8.02359e-07	0.999997	8.19142e-07	0.999997
rad54	5.52611e-07	0.999998	5.64171e-07	0.999998
rad4	5.26499e-07	0.999998	5.37514e-07	0.999998
PAH3+H	2.98344e-07	0.999999	3.04586e-07	0.999999
rad60syn	2.07622e-07	0.999999	2.11965e-07	0.999999
rad36	1.85179e-07	0.999999	1.89053e-07	0.999999
PhcycC3H3_A+H	1.62928e-07	0.999999	1.66336e-07	0.999999
rad50	1.48843e-07	0.999999	1.51957e-07	0.999999
PAH10+CH3	1.14965e-07	0.999999	1.17370e-07	1.000000
rad60anti	1.09957e-07	0.999999	1.12257e-07	1.000000
rad9	5.28660e-08	0.999999	5.39720e-08	1.000000
rad13	5.10688e-08	1.000000	5.21371e-08	1.000000
rad59	4.64584e-08	1.000000	4.74302e-08	1.000000
rad70	3.44093e-08	1.000000	3.51291e-08	1.000000
PAH1+H	3.02145e-08	1.000000	3.08466e-08	1.000000
rad51	2.92369e-08	1.000000	2.98485e-08	1.000000
rad67	2.26532e-08	1.000000	2.31271e-08	1.000000
rad62	1.77702e-08	1.000000	1.81420e-08	1.000000
rad55	1.62359e-08	1.000000	1.65755e-08	1.000000
rad43	1.01887e-08	1.000000	1.04018e-08	1.000000
rad52	9.68597e-09	1.000000	9.88862e-09	1.000000
rad22	7.33664e-09	1.000000	7.49012e-09	1.000000
rad34	2.76355e-09	1.000000	2.82137e-09	1.000000
rad71	8.79738e-10	1.000000	8.98140e-10	1.000000
rad65	7.82202e-10	1.000000	7.98568e-10	1.000000
rad73	6.43772e-10	1.000000	6.57239e-10	1.000000
rad33	3.87123e-10	1.000000	3.95221e-10	1.000000
rad53	1.73202e-10	1.000000	1.76826e-10	1.000000

rad58	1.70252e-10	1.000000	1.73814e-10	1.00000
rad42	1.17195e-10	1.000000	1.19647e-10	1.00000
rad21	1.07277e-10	1.000000	1.09521e-10	1.00000
rad41	9.64419e-11	1.000000	9.84599e-11	1.00000
rad64	9.19302e-11	1.000000	9.38536e-11	1.00000
rad20	6.27259e-11	1.000000	6.40381e-11	1.00000
rad25	6.07570e-11	1.000000	6.20280e-11	1.00000
rad14	5.39110e-11	1.000000	5.50388e-11	1.00000
rad27	4.51049e-11	1.000000	4.60485e-11	1.00000
rad56	3.26556e-11	1.000000	3.33387e-11	1.00000
PAH8+H	3.24351e-11	1.000000	3.31136e-11	1.00000
rad72	2.83665e-11	1.000000	2.89599e-11	1.00000
rad15	2.36426e-11	1.000000	2.41372e-11	1.00000
rad61	1.94076e-11	1.000000	1.98136e-11	1.00000
rad31	1.64568e-11	1.000000	1.68011e-11	1.00000
rad68syn	6.46552e-12	1.000000	6.60077e-12	1.00000
rad40syn	6.18181e-12	1.000000	6.31113e-12	1.00000
rad40anti	5.48888e-12	1.000000	5.60370e-12	1.00000
rad68anti	4.32591e-12	1.000000	4.41641e-12	1.00000
rad24	4.19849e-12	1.000000	4.28632e-12	1.00000
rad18	1.15288e-12	1.000000	1.17700e-12	1.00000
rad12	5.13600e-13	1.000000	5.24344e-13	1.00000
rad5	1.05031e-14	1.000000	1.07229e-14	1.00000
rad47	1.29903e-16	1.000000	1.32620e-16	1.00000
rad8	8.40447e-22	1.000000	8.58032e-22	1.00000

1.00000000 Pa, 800.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.75392e-13	(1.00)	2.64269e-13	(1.00)
Formation of rad11	1.06471e-13	(0.387)	1.00727e-13	(0.381)
Formation of rad6	9.97133e-14	(0.362)	9.43341e-14	(0.357)
H-abstraction	6.92082e-14	(0.251)	6.92082e-14	(0.262)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.415404	0.415404	0.432889	0.432889
Benzene+2-propynyl	0.251308	0.666712	0.261885	0.694774
C2H2+PhCH2	0.157166	0.823878	0.163781	0.858555
PhCCH+CH3	0.0623814	0.886260	0.0650070	0.923562
Phenyl+Allene	0.0403895	0.926649	0.000000	0.923562
PhCHCCH2+H	0.0358022	0.962452	0.0373091	0.960871
PhCH2CCH+H	0.00997266	0.972424	0.0103924	0.971264
rad6	0.00851121	0.980935	0.00886948	0.980133
Ph+MeAc	0.00834537	0.989281	0.00869662	0.988830
PhCCH3+H	0.00613547	0.995416	0.00639371	0.995223
PAH7+H	0.00348764	0.998904	0.00363443	0.998858
rad39	0.000831086	0.999735	0.000866067	0.999724
rad19anti	8.99696e-05	0.999825	9.37561e-05	0.999818
PAH9+H	5.52002e-05	0.999880	5.75236e-05	0.999875
rad30	2.92269e-05	0.999909	3.04570e-05	0.999906
rad38	2.03075e-05	0.999930	2.11622e-05	0.999927
rad35	1.24427e-05	0.999942	1.29663e-05	0.999940
rad2	1.08156e-05	0.999953	1.12708e-05	0.999951
rad28	8.91213e-06	0.999962	9.28726e-06	0.999960
rad19syn	8.32478e-06	0.999970	8.67514e-06	0.999969
rad37	7.26074e-06	0.999977	7.56634e-06	0.999977
rad23	6.65989e-06	0.999984	6.94020e-06	0.999984
rad46	2.89992e-06	0.999987	3.02198e-06	0.999987
rad54	2.03346e-06	0.999989	2.11905e-06	0.999989
rad1	1.84122e-06	0.999991	1.91871e-06	0.999991
rad7	1.79274e-06	0.999993	1.86819e-06	0.999992
rad45	1.29057e-06	0.999994	1.34489e-06	0.999994
PAH3+H	8.03010e-07	0.999995	8.36808e-07	0.999995
PhcycC3H3_A+H	7.94617e-07	0.999996	8.28062e-07	0.999995
rad26	7.67387e-07	0.999996	7.99681e-07	0.999996
rad11	6.82987e-07	0.999997	7.11734e-07	0.999997
rad50	4.22578e-07	0.999997	4.40365e-07	0.999997
rad60syn	3.95878e-07	0.999998	4.12540e-07	0.999998
PAH10+CH3	3.02526e-07	0.999998	3.15260e-07	0.999998
rad10	2.53968e-07	0.999998	2.64658e-07	0.999998
rad60anti	2.15411e-07	0.999999	2.24477e-07	0.999999
rad3	2.10871e-07	0.999999	2.19746e-07	0.999999
rad9	1.61126e-07	0.999999	1.67908e-07	0.999999
PAH1+H	1.52705e-07	0.999999	1.59132e-07	0.999999
rad70	1.50316e-07	0.999999	1.56642e-07	0.999999
rad4	1.43551e-07	0.999999	1.49593e-07	1.000000
rad59	1.18169e-07	0.999999	1.23143e-07	1.000000
rad36	1.10242e-07	1.000000	1.14882e-07	1.000000

rad67	9.31194e-08	1.000000	9.70385e-08	1.000000
rad51	7.98031e-08	1.000000	8.31619e-08	1.000000
rad55	7.18756e-08	1.000000	7.49009e-08	1.000000
rad62	5.38016e-08	1.000000	5.60660e-08	1.000000
rad13	3.04787e-08	1.000000	3.17616e-08	1.000000
rad52	2.69018e-08	1.000000	2.80341e-08	1.000000
rad43	2.22043e-08	1.000000	2.31389e-08	1.000000
rad34	1.47466e-08	1.000000	1.53673e-08	1.000000
rad22	3.60217e-09	1.000000	3.75378e-09	1.000000
rad71	2.61682e-09	1.000000	2.72696e-09	1.000000
rad65	2.13651e-09	1.000000	2.22643e-09	1.000000
rad73	1.87369e-09	1.000000	1.95256e-09	1.000000
rad53	1.39457e-09	1.000000	1.45327e-09	1.000000
rad21	8.43035e-10	1.000000	8.78519e-10	1.000000
rad58	7.38440e-10	1.000000	7.69522e-10	1.000000
rad33	6.55618e-10	1.000000	6.83212e-10	1.000000
rad64	6.27585e-10	1.000000	6.53999e-10	1.000000
rad42	5.48159e-10	1.000000	5.71231e-10	1.000000
rad20	4.18470e-10	1.000000	4.36083e-10	1.000000
rad56	3.48676e-10	1.000000	3.63352e-10	1.000000
rad41	3.00418e-10	1.000000	3.13063e-10	1.000000
PAH8+H	1.38997e-10	1.000000	1.44847e-10	1.000000
rad72	8.76472e-11	1.000000	9.13358e-11	1.000000
rad61	6.47334e-11	1.000000	6.74580e-11	1.000000
rad24	5.61150e-11	1.000000	5.84769e-11	1.000000
rad25	4.98418e-11	1.000000	5.19396e-11	1.000000
rad68syn	4.83430e-11	1.000000	5.03777e-11	1.000000
rad15	4.55949e-11	1.000000	4.75140e-11	1.000000
rad68anti	3.25966e-11	1.000000	3.39686e-11	1.000000
rad14	2.76726e-11	1.000000	2.88373e-11	1.000000
rad40syn	2.72942e-11	1.000000	2.84430e-11	1.000000
rad27	2.42847e-11	1.000000	2.53068e-11	1.000000
rad40anti	2.35653e-11	1.000000	2.45572e-11	1.000000
rad12	1.17658e-11	1.000000	1.22610e-11	1.000000
rad31	8.25650e-12	1.000000	8.60406e-12	1.000000
rad18	4.09713e-12	1.000000	4.26957e-12	1.000000
rad5	5.24527e-15	1.000000	5.46604e-15	1.000000
rad47	7.23492e-16	1.000000	7.53940e-16	1.000000
rad8	3.25337e-18	1.000000	3.39029e-18	1.000000

1.00000000 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.88072e-13 (1.00)	4.55193e-13 (1.00)
Formation of rad11	1.74945e-13 (0.358)	1.58579e-13 (0.348)
Formation of rad6	1.76509e-13 (0.362)	1.59996e-13 (0.351)
H-abstraction	1.36618e-13 (0.280)	1.36618e-13 (0.300)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.339966	0.339966	0.364522	0.364522
Benzene+2-propynyl	0.279914	0.619879	0.300132	0.664654
C2H2+PhCH2	0.164114	0.783994	0.175968	0.840623
Phenyl+Allene	0.0673651	0.851359	0.000000	0.840623
PhCCH+CH3	0.0636902	0.915049	0.0682907	0.908913
PhCHCCH2+H	0.0450377	0.960086	0.0482908	0.957204
PhCH2CCH+H	0.0182833	0.978370	0.0196039	0.976808
Ph+MeAc	0.00847801	0.986848	0.00909044	0.985898
PhCCCH3+H	0.00483117	0.991679	0.00518013	0.991079
PAH7+H	0.00481488	0.996494	0.00516266	0.996241
rad6	0.00200487	0.998499	0.00214969	0.998391
rad39	0.00111648	0.999615	0.00119712	0.999588
rad19anti	0.000152520	0.999768	0.000163537	0.999752
PAH9+H	8.70073e-05	0.999855	9.32917e-05	0.999845
rad30	3.45009e-05	0.999889	3.69929e-05	0.999882
rad38	3.28607e-05	0.999922	3.52343e-05	0.999917
rad19syn	2.05673e-05	0.999943	2.20529e-05	0.999939
rad35	1.86634e-05	0.999961	2.00115e-05	0.999959
rad37	8.31016e-06	0.999970	8.91044e-06	0.999968
rad54	5.60949e-06	0.999975	6.01466e-06	0.999974
rad46	5.27936e-06	0.999980	5.66070e-06	0.999980
PhcycC3H3_A+H	2.75337e-06	0.999983	2.95225e-06	0.999983
rad23	2.75306e-06	0.999986	2.95192e-06	0.999986
rad2	2.21632e-06	0.999988	2.37640e-06	0.999988
rad28	2.18667e-06	0.999990	2.34462e-06	0.999990
PAH3+H	1.70681e-06	0.999992	1.83009e-06	0.999992
rad50	7.48803e-07	0.999993	8.02895e-07	0.999993
rad45	6.47267e-07	0.999993	6.94020e-07	0.999994
rad60syn	6.35359e-07	0.999994	6.81251e-07	0.999994

PAH10+CH3	6.29381e-07	0.999995	6.74842e-07	0.999995
rad7	6.03427e-07	0.999995	6.47014e-07	0.999996
PAH1+H	5.31600e-07	0.999996	5.69998e-07	0.999996
rad70	4.68457e-07	0.999996	5.02294e-07	0.999997
rad1	4.05518e-07	0.999997	4.34809e-07	0.999997
rad60anti	3.53410e-07	0.999997	3.78937e-07	0.999998
rad67	2.90843e-07	0.999997	3.11851e-07	0.999998
rad11	2.88563e-07	0.999998	3.09407e-07	0.999998
rad9	2.66510e-07	0.999998	2.85760e-07	0.999998
rad59	2.38917e-07	0.999998	2.56175e-07	0.999999
rad55	2.28532e-07	0.999998	2.45038e-07	0.999999
rad26	1.82791e-07	0.999999	1.95994e-07	0.999999
rad62	1.23940e-07	0.999999	1.32892e-07	0.999999
rad51	9.87742e-08	0.999999	1.05909e-07	0.999999
rad10	6.23620e-08	0.999999	6.68664e-08	0.999999
rad36	5.84245e-08	0.999999	6.26445e-08	1.000000
rad3	5.51820e-08	0.999999	5.91678e-08	1.000000
rad34	5.39023e-08	0.999999	5.77958e-08	1.000000
rad52	3.97979e-08	0.999999	4.26726e-08	1.000000
rad4	3.97783e-08	0.999999	4.26515e-08	1.000000
rad43	3.53523e-08	0.999999	3.79058e-08	1.000000
rad13	2.73652e-08	0.999999	2.93418e-08	1.000000
rad53	7.17271e-09	0.999999	7.69078e-09	1.000000
rad21	4.28217e-09	0.999999	4.59148e-09	1.000000
rad64	2.85008e-09	0.999999	3.05595e-09	1.000000
rad65	2.75199e-09	0.999999	2.95077e-09	1.000000
rad71	2.65466e-09	0.999999	2.84641e-09	1.000000
rad56	2.33986e-09	0.999999	2.50887e-09	1.000000
rad22	2.27534e-09	0.999999	2.43969e-09	1.000000
rad58	2.25548e-09	0.999999	2.41839e-09	1.000000
rad20	2.09126e-09	0.999999	2.24231e-09	1.000000
rad73	1.88813e-09	0.999999	2.02451e-09	1.000000
rad42	1.75103e-09	0.999999	1.87751e-09	1.000000
rad33	1.58912e-09	0.999999	1.70390e-09	1.000000
rad41	4.25935e-10	0.999999	4.56700e-10	1.000000
rad68syn	2.72936e-10	0.999999	2.92650e-10	1.000000
PAH8+H	2.41240e-10	0.999999	2.58665e-10	1.000000
rad24	1.88614e-10	0.999999	2.02237e-10	1.000000
rad68anti	1.83929e-10	0.999999	1.97214e-10	1.000000
rad72	9.03953e-11	0.999999	9.69240e-11	1.000000
rad61	8.46749e-11	0.999999	9.07911e-11	1.000000
rad25	7.49876e-11	0.999999	8.04043e-11	1.000000
rad15	6.35814e-11	0.999999	6.81740e-11	1.000000
rad40syn	5.40437e-11	0.999999	5.79473e-11	1.000000
rad12	5.38818e-11	0.999999	5.77737e-11	1.000000
rad40anti	3.56281e-11	0.999999	3.82015e-11	1.000000
rad27	2.30318e-11	0.999999	2.46955e-11	1.000000
rad14	2.27581e-11	0.999999	2.44019e-11	1.000000
rad18	1.53767e-11	0.999999	1.64874e-11	1.000000
rad31	4.20190e-12	0.999999	4.50541e-12	1.000000
rad5	2.83778e-15	0.999999	3.04276e-15	1.000000
rad8	1.11874e-15	0.999999	1.19955e-15	1.000000
rad47	9.85359e-16	0.999999	1.05653e-15	1.000000

1.00000000 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.98668e-13 (1.00)	7.19617e-13 (1.00)
Formation of rad11	2.67704e-13 (0.335)	2.29557e-13 (0.319)
Formation of rad6	2.87049e-13 (0.359)	2.46146e-13 (0.342)
H-abstraction	2.43915e-13 (0.305)	2.43915e-13 (0.339)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.305402	0.305402	0.338950	0.338950
Indene+H	0.271959	0.577361	0.301833	0.640784
C2H2+PhCH2	0.159288	0.736649	0.176786	0.817569
Phenyl+Allene	0.0989774	0.835626	0.000000	0.817569
PhCCH+CH3	0.0615474	0.897174	0.0683082	0.885878
PhCHCCH2+H	0.0537301	0.950904	0.0596324	0.945510
PhCH2CCH+H	0.0288913	0.979795	0.0320651	0.977575
Ph+MeAc	0.00817146	0.987966	0.00906907	0.986644
PAH7+H	0.00600825	0.993975	0.00666827	0.993313
PhCCCH3+H	0.00363793	0.997613	0.00403756	0.997350
rad39	0.00134810	0.998961	0.00149619	0.998846
rad6	0.000477836	0.999439	0.000530327	0.999377
rad19anti	0.000230062	0.999669	0.000255334	0.999632
PAH9+H	0.000124449	0.999793	0.000138120	0.999770
rad38	4.81527e-05	0.999841	5.34424e-05	0.999824

rad19syn	4.20362e-05	0.999883	4.66540e-05	0.999870
rad30	3.74547e-05	0.999921	4.15690e-05	0.999912
rad35	2.55670e-05	0.999946	2.83755e-05	0.999940
rad54	1.25295e-05	0.999959	1.39058e-05	0.999954
rad37	9.28490e-06	0.999968	1.03048e-05	0.999964
rad46	8.62455e-06	0.999977	9.57200e-06	0.999974
PhcycC3H3_A+H	7.44345e-06	0.999984	8.26107e-06	0.999982
PAH3+H	3.06290e-06	0.999987	3.39936e-06	0.999986
PAH1+H	1.43152e-06	0.999989	1.58877e-06	0.999987
rad50	1.38938e-06	0.999990	1.54200e-06	0.999989
rad23	1.25984e-06	0.999991	1.39823e-06	0.999990
PAH10+CH3	1.23134e-06	0.999993	1.36660e-06	0.999991
rad70	1.14156e-06	0.999994	1.26695e-06	0.999993
rad60syn	8.97115e-07	0.999995	9.95666e-07	0.999994
rad67	7.39573e-07	0.999995	8.20819e-07	0.999995
rad55	5.71795e-07	0.999996	6.34607e-07	0.999995
rad28	5.55510e-07	0.999996	6.16533e-07	0.999996
rad60anti	5.08301e-07	0.999997	5.64138e-07	0.999996
rad2	5.03570e-07	0.999997	5.58888e-07	0.999997
rad59	4.09031e-07	0.999998	4.53963e-07	0.999997
rad45	3.36923e-07	0.999998	3.73935e-07	0.999998
rad7	2.47107e-07	0.999998	2.74252e-07	0.999998
rad62	2.36509e-07	0.999999	2.62490e-07	0.999998
rad9	2.33970e-07	0.999999	2.59672e-07	0.999999
rad11	1.69769e-07	0.999999	1.88419e-07	0.999999
rad34	1.50013e-07	0.999999	1.66493e-07	0.999999
rad51	1.37478e-07	0.999999	1.52581e-07	0.999999
rad1	1.03026e-07	0.999999	1.14344e-07	0.999999
rad52	6.74412e-08	1.000000	7.48500e-08	0.999999
rad43	4.95527e-08	1.000000	5.49961e-08	0.999999
rad26	4.89028e-08	1.000000	5.42748e-08	0.999999
rad13	4.19087e-08	1.000000	4.65124e-08	0.999999
rad36	3.11436e-08	1.000000	3.45648e-08	0.999999
rad53	2.66867e-08	1.000000	2.96182e-08	0.999999
rad10	2.44752e-08	1.000000	2.71638e-08	0.999999
rad3	1.71129e-08	1.000000	1.89927e-08	1.000000
rad4	1.28929e-08	1.000000	1.43093e-08	1.000000
rad56	1.09026e-08	1.000000	1.21002e-08	1.000000
rad21	9.99429e-09	1.000000	1.10922e-08	1.000000
rad64	9.72146e-09	1.000000	1.07893e-08	1.000000
rad58	5.67191e-09	1.000000	6.29498e-09	1.000000
rad20	5.13829e-09	1.000000	5.70273e-09	1.000000
rad42	4.49522e-09	1.000000	4.98903e-09	1.000000
rad65	4.11154e-09	1.000000	4.56320e-09	1.000000
rad33	2.87974e-09	1.000000	3.19608e-09	1.000000
rad22	2.11177e-09	1.000000	2.34376e-09	1.000000
rad71	1.79207e-09	1.000000	1.98893e-09	1.000000
rad73	1.30874e-09	1.000000	1.45250e-09	1.000000
rad68syn	1.19945e-09	1.000000	1.33120e-09	1.000000
rad68anti	8.04136e-10	1.000000	8.92470e-10	1.000000
PAH8+H	7.48513e-10	1.000000	8.30741e-10	1.000000
rad41	5.92387e-10	1.000000	6.57461e-10	1.000000
rad24	2.49111e-10	1.000000	2.76477e-10	1.000000
rad40syn	1.74893e-10	1.000000	1.94105e-10	1.000000
rad25	1.61761e-10	1.000000	1.79531e-10	1.000000
rad61	1.45891e-10	1.000000	1.61917e-10	1.000000
rad12	9.31789e-11	1.000000	1.03415e-10	1.000000
rad40anti	8.42804e-11	1.000000	9.35385e-11	1.000000
rad15	6.53407e-11	1.000000	7.25185e-11	1.000000
rad72	6.04122e-11	1.000000	6.70483e-11	1.000000
rad18	4.18654e-11	1.000000	4.64643e-11	1.000000
rad14	2.64905e-11	1.000000	2.94004e-11	1.000000
rad27	2.45081e-11	1.000000	2.72003e-11	1.000000
rad31	2.33563e-12	1.000000	2.59220e-12	1.000000
rad8	3.76214e-14	1.000000	4.17541e-14	1.000000
rad5	1.99536e-15	1.000000	2.21455e-15	1.000000
rad47	1.17707e-15	1.000000	1.30637e-15	1.000000

1.00000000 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	1.22919e-12 (1.00)	1.06690e-12 (1.00)		
Formation of rad11	3.87976e-13 (0.316)	3.11717e-13 (0.292)		
Formation of rad6	4.37724e-13 (0.356)	3.51688e-13 (0.330)		
H-abstraction	4.03491e-13 (0.328)	4.03491e-13 (0.378)		
species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.328257	0.328257	0.378192	0.378192

Indene+H	0.214694	0.542952	0.247354	0.625546
C2H2+PhCH2	0.146443	0.689395	0.168720	0.794265
Phenyl+Allene	0.132034	0.821429	0.00000	0.794265
PhCHCCH2+H	0.0609475	0.882377	0.0702190	0.864484
PhCCH+CH3	0.0572199	0.939597	0.0659241	0.930408
PhCH2CCH+H	0.0407426	0.980339	0.0469404	0.977349
Ph+MeAc	0.00763295	0.987972	0.00879411	0.986143
PAH7+H	0.00694582	0.994918	0.00800243	0.994145
PhCCCH3+H	0.00267629	0.997594	0.00308341	0.997229
rad39	0.00150192	0.999096	0.00173039	0.998959
rad19anti	0.000315273	0.999411	0.000363233	0.999322
PAH9+H	0.000164810	0.999576	0.000189881	0.999512
rad6	0.000125428	0.999702	0.000144509	0.999657
rad19syn	7.45688e-05	0.999776	8.59122e-05	0.999743
rad38	6.52455e-05	0.999842	7.51704e-05	0.999818
rad30	3.82231e-05	0.999880	4.40376e-05	0.999862
rad35	3.26206e-05	0.999912	3.75828e-05	0.999899
rad54	2.39091e-05	0.999936	2.75462e-05	0.999927
PhcycC3H3_A+H	1.67320e-05	0.999953	1.92772e-05	0.999946
rad46	1.29137e-05	0.999966	1.48781e-05	0.999961
rad37	1.03727e-05	0.999976	1.19506e-05	0.999973
PAH3+H	4.84263e-06	0.999981	5.57929e-06	0.999979
PAH1+H	3.17032e-06	0.999984	3.65258e-06	0.999982
rad50	2.61626e-06	0.999987	3.01425e-06	0.999985
rad70	2.31304e-06	0.999989	2.66490e-06	0.999988
PAH10+CH3	2.25905e-06	0.999992	2.60270e-06	0.999991
rad67	1.58645e-06	0.999993	1.82779e-06	0.999992
rad55	1.19792e-06	0.999994	1.38014e-06	0.999994
rad60syn	1.15125e-06	0.999995	1.32638e-06	0.999995
rad60anti	6.62693e-07	0.999996	7.63500e-07	0.999996
rad59	6.18664e-07	0.999997	7.12773e-07	0.999997
rad23	6.14141e-07	0.999997	7.07562e-07	0.999997
rad62	3.93339e-07	0.999998	4.53173e-07	0.999998
rad34	3.40200e-07	0.999998	3.91951e-07	0.999998
rad51	2.64052e-07	0.999998	3.04220e-07	0.999999
rad45	1.79073e-07	0.999999	2.06314e-07	0.999999
rad11	1.69103e-07	0.999999	1.94826e-07	0.999999
rad9	1.64244e-07	0.999999	1.89228e-07	0.999999
rad28	1.60138e-07	0.999999	1.84498e-07	0.999999
rad7	1.42926e-07	0.999999	1.64668e-07	0.999999
rad52	1.32772e-07	0.999999	1.52969e-07	1.000000
rad2	1.32691e-07	0.999999	1.52877e-07	1.000000
rad53	7.80511e-08	0.999999	8.99241e-08	1.000000
rad13	6.62627e-08	1.000000	7.63425e-08	1.000000
rad43	6.41835e-08	1.000000	7.39473e-08	1.000000
rad56	3.84183e-08	1.000000	4.42625e-08	1.000000
rad1	2.91614e-08	1.000000	3.35974e-08	1.000000
rad64	2.61641e-08	1.000000	3.01442e-08	1.000000
rad36	1.67548e-08	1.000000	1.93035e-08	1.000000
rad26	1.55178e-08	1.000000	1.78784e-08	1.000000
rad10	1.46854e-08	1.000000	1.69194e-08	1.000000
rad58	1.20700e-08	1.000000	1.39061e-08	1.000000
rad21	1.14913e-08	1.000000	1.32394e-08	1.000000
rad42	9.68190e-09	1.000000	1.11547e-08	1.000000
rad65	8.17484e-09	1.000000	9.41841e-09	1.000000
rad3	6.06198e-09	1.000000	6.98415e-09	1.000000
rad20	6.00971e-09	1.000000	6.92390e-09	1.000000
rad4	4.67948e-09	1.000000	5.39133e-09	1.000000
rad68syn	4.04730e-09	1.000000	4.66298e-09	1.000000
PAH8+H	3.12201e-09	1.000000	3.59693e-09	1.000000
rad33	3.05243e-09	1.000000	3.51676e-09	1.000000
rad68anti	2.69960e-09	1.000000	3.11026e-09	1.000000
rad22	1.76017e-09	1.000000	2.02793e-09	1.000000
rad71	1.22378e-09	1.000000	1.40994e-09	1.000000
rad73	1.05151e-09	1.000000	1.21147e-09	1.000000
rad41	9.46378e-10	1.000000	1.09034e-09	1.000000
rad40syn	6.59662e-10	1.000000	7.60012e-10	1.000000
rad61	3.94255e-10	1.000000	4.54229e-10	1.000000
rad40anti	3.10714e-10	1.000000	3.57980e-10	1.000000
rad25	2.79554e-10	1.000000	3.22081e-10	1.000000
rad24	2.17119e-10	1.000000	2.50148e-10	1.000000
rad12	1.06643e-10	1.000000	1.22865e-10	1.000000
rad18	9.82289e-11	1.000000	1.13171e-10	1.000000
rad15	6.71609e-11	1.000000	7.73772e-11	1.000000
rad72	3.59910e-11	1.000000	4.14659e-11	1.000000
rad14	2.99738e-11	1.000000	3.45334e-11	1.000000
rad27	1.94229e-11	1.000000	2.23775e-11	1.000000
rad31	1.37549e-12	1.000000	1.58473e-12	1.000000
rad8	2.31363e-13	1.000000	2.66558e-13	1.000000
rad47	2.02742e-15	1.000000	2.33584e-15	1.000000

rad5 | 1.94511e-15 1.000000 | 2.24100e-15 1.00000

1.00000000 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.50734e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.03337e-13 (0.268)
Formation of rad6	6.34764e-13 (0.352)	4.75183e-13 (0.315)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.417)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.417171	0.417171
Indene+H	0.168223	0.517106	0.201150	0.618320
Phenyl+Allene	0.163692	0.680798	0.000000	0.618320
C2H2+PhCH2	0.129420	0.810218	0.154751	0.773071
PhCHCCH2+H	0.0661437	0.876362	0.0790900	0.852161
PhCH2CCH+H	0.0526494	0.929011	0.0629543	0.915116
PhCCH+CH3	0.0518109	0.980822	0.0619519	0.977067
PAH7+H	0.00758493	0.988407	0.00906953	0.986137
Ph+MeAc	0.00700328	0.995410	0.00837404	0.994511
PhCCCH3+H	0.00195072	0.997361	0.00233254	0.996844
rad39	0.00157568	0.998937	0.00188410	0.998728
rad19anti	0.000399619	0.999336	0.000477837	0.999205
PAH9+H	0.000204933	0.999541	0.000245045	0.999450
rad19syn	0.000118871	0.999660	0.000142137	0.999593
rad38	8.28820e-05	0.999743	9.91049e-05	0.999692
rad54	4.05033e-05	0.999784	4.84310e-05	0.999740
rad6	4.03378e-05	0.999824	4.82332e-05	0.999788
rad35	3.93301e-05	0.999863	4.70283e-05	0.999835
rad30	3.73073e-05	0.999901	4.46095e-05	0.999880
PhcycC3H3_A+H	3.27111e-05	0.999933	3.91137e-05	0.999919
rad46	1.79289e-05	0.999951	2.14382e-05	0.999941
rad37	1.16247e-05	0.999963	1.39000e-05	0.999954
PAH3+H	6.96155e-06	0.999970	8.32415e-06	0.999963
PAH1+H	6.04681e-06	0.999976	7.23035e-06	0.999970
rad50	4.61612e-06	0.999981	5.51964e-06	0.999976
rad70	4.07180e-06	0.999985	4.86878e-06	0.999980
PAH10+CH3	3.84337e-06	0.999988	4.59565e-06	0.999985
rad67	2.97381e-06	0.999991	3.55588e-06	0.999989
rad55	2.19517e-06	0.999994	2.62484e-06	0.999991
rad60syn	1.37653e-06	0.999995	1.64596e-06	0.999993
rad59	8.53041e-07	0.999996	1.02001e-06	0.999994
rad60anti	8.03400e-07	0.999997	9.60649e-07	0.999995
rad34	6.59959e-07	0.999997	7.89134e-07	0.999996
rad62	5.91421e-07	0.999998	7.07182e-07	0.999996
rad51	5.39927e-07	0.999998	6.45606e-07	0.999997
rad23	3.14651e-07	0.999999	3.76238e-07	0.999997
rad52	2.54755e-07	0.999999	3.04618e-07	0.999998
rad11	2.32647e-07	0.999999	2.78184e-07	0.999998
rad53	1.90258e-07	0.999999	2.27498e-07	0.999998
rad7	1.38327e-07	1.000000	1.65402e-07	0.999998
rad9	1.11846e-07	1.000000	1.33738e-07	0.999998
rad56	1.09464e-07	1.000000	1.30890e-07	0.999999
rad45	9.64903e-08	1.000000	1.15376e-07	0.999999
rad43	7.77694e-08	1.000000	9.29916e-08	0.999999
rad13	6.93791e-08	1.000000	8.29588e-08	0.999999
rad64	5.85706e-08	1.000000	7.00345e-08	0.999999
rad28	5.70633e-08	1.000000	6.82324e-08	0.999999
rad2	3.90243e-08	1.000000	4.66626e-08	0.999999
rad58	2.24363e-08	1.000000	2.68278e-08	0.999999
rad42	1.82076e-08	1.000000	2.17715e-08	0.999999
rad65	1.67413e-08	1.000000	2.00182e-08	0.999999
rad68syn	1.10204e-08	1.000000	1.31774e-08	0.999999
PAH8+H	1.09390e-08	1.000000	1.30801e-08	0.999999
rad10	1.02190e-08	1.000000	1.22191e-08	0.999999
rad36	9.11766e-09	1.000000	1.09022e-08	0.999999
rad1	8.91483e-09	1.000000	1.06598e-08	0.999999
rad21	8.87518e-09	1.000000	1.06123e-08	0.999999
rad68anti	7.31810e-09	1.000000	8.75049e-09	0.999999
rad26	6.01881e-09	1.000000	7.19690e-09	0.999999
rad20	4.39812e-09	1.000000	5.25898e-09	0.999999
rad3	2.35586e-09	1.000000	2.81697e-09	0.999999
rad33	2.27942e-09	1.000000	2.72557e-09	0.999999
rad40syn	2.08049e-09	1.000000	2.48771e-09	0.999999
rad4	1.84413e-09	1.000000	2.20509e-09	0.999999
rad73	1.66267e-09	1.000000	1.98810e-09	0.999999
rad41	1.49271e-09	1.000000	1.78489e-09	0.999999
rad71	1.47997e-09	1.000000	1.76965e-09	0.999999

rad22	1.25268e-09	1.00000	1.49787e-09	0.999999
rad61	1.04396e-09	1.00000	1.24830e-09	0.999999
rad40anti	1.01639e-09	1.00000	1.21533e-09	0.999999
rad25	3.15117e-10	1.00000	3.76796e-10	0.999999
rad18	2.31087e-10	1.00000	2.76318e-10	0.999999
rad24	1.65853e-10	1.00000	1.98316e-10	0.999999
rad12	1.03555e-10	1.00000	1.23824e-10	0.999999
rad15	7.88093e-11	1.00000	9.42348e-11	0.999999
rad72	2.64780e-11	1.00000	3.16606e-11	0.999999
rad14	2.61743e-11	1.00000	3.12974e-11	0.999999
rad27	1.10759e-11	1.00000	1.32438e-11	0.999999
rad31	8.43945e-13	1.00000	1.00913e-12	0.999999
rad8	5.37157e-13	1.00000	6.42296e-13	0.999999
rad47	4.04911e-15	1.00000	4.84165e-15	0.999999
rad5	2.65947e-15	1.00000	3.18002e-15	0.999999

1.00000000 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.54148e-12 (1.00)	2.05337e-12 (1.00)
Formation of rad11	7.22991e-13 (0.284)	5.03419e-13 (0.245)
Formation of rad6	8.84215e-13 (0.348)	6.15679e-13 (0.300)
H-abstraction	9.34273e-13 (0.368)	9.34273e-13 (0.455)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.367610	0.367610	0.454995	0.454995
Phenyl+Allene	0.192057	0.559667	0.000000	0.454995
Indene+H	0.131421	0.691088	0.162661	0.617655
C2H2+PhCH2	0.111281	0.802369	0.137734	0.755389
PhCHCCH2+H	0.0692277	0.871596	0.0856841	0.841073
PhCH2CCH+H	0.0636273	0.935224	0.0787522	0.919825
PhCCH+CH3	0.0461509	0.981375	0.0571214	0.976947
PAH7+H	0.00794547	0.989320	0.00983418	0.986781
Ph+MeAc	0.00637025	0.995690	0.00788459	0.994666
rad39	0.00158189	0.997272	0.00195792	0.996624
PhCCCH3+H	0.00142369	0.998696	0.00176211	0.998386
rad19anti	0.000475511	0.999171	0.000588546	0.998974
PAH9+H	0.000242256	0.999414	0.000299843	0.999274
rad19syn	0.000174671	0.999588	0.000216192	0.999490
rad38	9.99480e-05	0.999688	0.000123706	0.999614
rad54	6.26312e-05	0.999751	7.75194e-05	0.999691
PhcycC3H3_A+H	5.74393e-05	0.999808	7.10932e-05	0.999763
rad35	4.53697e-05	0.999854	5.61546e-05	0.999819
rad30	3.53161e-05	0.999889	4.37110e-05	0.999862
rad46	2.33841e-05	0.999912	2.89428e-05	0.999891
rad6	1.73297e-05	0.999930	2.14491e-05	0.999913
rad37	1.29878e-05	0.999943	1.60752e-05	0.999929
PAH1+H	1.02835e-05	0.999953	1.27281e-05	0.999942
PAH3+H	9.32130e-06	0.999962	1.15371e-05	0.999953
rad50	7.52070e-06	0.999970	9.30842e-06	0.999962
rad70	6.43052e-06	0.999976	7.95915e-06	0.999970
PAH10+CH3	6.08007e-06	0.999982	7.52538e-06	0.999978
rad67	4.99974e-06	0.999987	6.18821e-06	0.999984
rad55	3.63027e-06	0.999991	4.49322e-06	0.999989
rad60syn	1.56346e-06	0.999993	1.93511e-06	0.999991
rad34	1.13469e-06	0.999994	1.40442e-06	0.999992
rad59	1.09818e-06	0.999995	1.35923e-06	0.999993
rad51	1.03408e-06	0.999996	1.27990e-06	0.999995
rad60anti	9.23732e-07	0.999997	1.14331e-06	0.999996
rad62	8.25958e-07	0.999998	1.02230e-06	0.999997
rad52	4.51144e-07	0.999998	5.58385e-07	0.999997
rad53	4.02901e-07	0.999998	4.98674e-07	0.999998
rad11	2.65579e-07	0.999999	3.28710e-07	0.999998
rad56	2.64625e-07	0.999999	3.27528e-07	0.999998
rad7	1.75082e-07	0.999999	2.16701e-07	0.999999
rad23	1.70895e-07	0.999999	2.11519e-07	0.999999
rad64	1.13769e-07	0.999999	1.40814e-07	0.999999
rad43	8.96476e-08	0.999999	1.10958e-07	0.999999
rad9	7.44222e-08	1.000000	9.21130e-08	0.999999
rad45	5.27277e-08	1.000000	6.52616e-08	0.999999
rad13	5.09342e-08	1.000000	6.30418e-08	0.999999
rad58	3.75636e-08	1.000000	4.64928e-08	0.999999
rad65	3.17658e-08	1.000000	3.93169e-08	0.999999
PAH8+H	3.15134e-08	1.000000	3.90044e-08	0.999999
rad42	3.09072e-08	1.000000	3.82541e-08	1.000000
rad28	2.67332e-08	1.000000	3.30879e-08	1.000000
rad68syn	2.53753e-08	1.000000	3.14073e-08	1.000000
rad68anti	1.67855e-08	1.000000	2.07755e-08	1.000000

rad2	1.25085e-08	1.000000	1.54820e-08	1.000000
rad10	6.53771e-09	1.000000	8.09180e-09	1.000000
rad21	5.94645e-09	1.000000	7.35997e-09	1.000000
rad40syn	5.46531e-09	1.000000	6.76450e-09	1.000000
rad36	5.03166e-09	1.000000	6.22772e-09	1.000000
rad73	4.10932e-09	1.000000	5.08615e-09	1.000000
rad71	3.51421e-09	1.000000	4.34957e-09	1.000000
rad1	2.92131e-09	1.000000	3.61573e-09	1.000000
rad26	2.85262e-09	1.000000	3.53071e-09	1.000000
rad40anti	2.77047e-09	1.000000	3.42904e-09	1.000000
rad20	2.67841e-09	1.000000	3.31509e-09	1.000000
rad61	2.42324e-09	1.000000	2.99927e-09	1.000000
rad41	2.20908e-09	1.000000	2.73419e-09	1.000000
rad33	1.51103e-09	1.000000	1.87021e-09	1.000000
rad3	9.83651e-10	1.000000	1.21748e-09	1.000000
rad22	8.77239e-10	1.000000	1.08576e-09	1.000000
rad4	7.77188e-10	1.000000	9.61929e-10	1.000000
rad18	3.63163e-10	1.000000	4.49491e-10	1.000000
rad25	2.63079e-10	1.000000	3.25616e-10	1.000000
rad15	1.26780e-10	1.000000	1.56917e-10	1.000000
rad24	1.21081e-10	1.000000	1.49864e-10	1.000000
rad12	9.25281e-11	1.000000	1.14524e-10	1.000000
rad72	4.47127e-11	1.000000	5.53415e-11	1.000000
rad14	1.80256e-11	1.000000	2.23104e-11	1.000000
rad27	5.28030e-12	1.000000	6.53548e-12	1.000000
rad8	7.86908e-13	1.000000	9.73968e-13	1.000000
rad31	5.35957e-13	1.000000	6.63358e-13	1.000000
rad47	7.74728e-15	1.000000	9.58888e-15	1.000000
rad5	4.77894e-15	1.000000	5.91494e-15	1.000000

1.00000000 Pa, 1400.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.47024e-12	(1.00)	2.71983e-12	(1.00)
Formation of rad11	9.43269e-13	(0.272)	6.11763e-13	(0.225)
Formation of rad6	1.19194e-12	(0.343)	7.73037e-13	(0.284)
H-abstraction	1.33503e-12	(0.385)	1.33503e-12	(0.491)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.490851	0.490851
Phenyl+Allene	0.216240	0.600949	0.000000	0.490851
Indene+H	0.102752	0.703701	0.131101	0.621952
C2H2+PhCH2	0.0940245	0.797726	0.119966	0.741918
PhCH2CCH+H	0.0730492	0.870775	0.0932033	0.835121
PhCHCCH2+H	0.0704348	0.941210	0.0898679	0.924989
PhCCH+CH3	0.0407678	0.981977	0.0520157	0.977005
PAH7+H	0.00808049	0.990058	0.0103099	0.987315
Ph+MeAc	0.00578220	0.995840	0.00737752	0.994692
rad39	0.00153895	0.997379	0.00196355	0.996656
PhCCCH3+H	0.00104905	0.998428	0.00133849	0.997994
rad19anti	0.000537572	0.998966	0.000685890	0.998680
PAH9+H	0.000275159	0.999241	0.000351076	0.999031
rad19syn	0.000241033	0.999482	0.000307534	0.999339
rad38	0.000115649	0.999597	0.000147557	0.999486
PhcycC3H3_A+H	9.27250e-05	0.999690	0.000118308	0.999605
rad54	9.02115e-05	0.999780	0.000115101	0.999720
rad35	5.05893e-05	0.999831	6.45469e-05	0.999784
rad30	3.27872e-05	0.999864	4.18332e-05	0.999826
rad46	2.90016e-05	0.999893	3.70032e-05	0.999863
PAH1+H	1.59975e-05	0.999909	2.04112e-05	0.999884
rad37	1.43569e-05	0.999923	1.83179e-05	0.999902
PAH3+H	1.18387e-05	0.999935	1.51050e-05	0.999917
rad50	1.14064e-05	0.999946	1.45534e-05	0.999931
rad6	1.00106e-05	0.999956	1.27725e-05	0.999944
rad70	9.33064e-06	0.999966	1.19049e-05	0.999956
PAH10+CH3	9.00448e-06	0.999975	1.14889e-05	0.999968
rad67	7.68825e-06	0.999982	9.80942e-06	0.999977
rad55	5.54169e-06	0.999988	7.07066e-06	0.999985
rad51	1.82098e-06	0.999990	2.32339e-06	0.999987
rad34	1.77497e-06	0.999992	2.26469e-06	0.999989
rad60syn	1.71207e-06	0.999993	2.18444e-06	0.999991
rad59	1.34399e-06	0.999995	1.71479e-06	0.999993
rad62	1.09244e-06	0.999996	1.39384e-06	0.999994
rad60anti	1.02267e-06	0.999997	1.30483e-06	0.999996
rad53	7.63515e-07	0.999998	9.74166e-07	0.999997
rad52	7.37451e-07	0.999998	9.40913e-07	0.999998
rad56	5.61719e-07	0.999999	7.16699e-07	0.999998
rad11	2.18508e-07	0.999999	2.78795e-07	0.999999

rad64	1.97852e-07	0.999999	2.52440e-07	0.999999
rad7	1.82946e-07	0.999999	2.33421e-07	0.999999
rad43	1.00025e-07	1.000000	1.27622e-07	0.999999
rad23	9.87868e-08	1.000000	1.26042e-07	0.999999
PAH8+H	7.73119e-08	1.000000	9.86421e-08	0.999999
rad58	5.80321e-08	1.000000	7.40430e-08	1.000000
rad65	5.52513e-08	1.000000	7.04953e-08	1.000000
rad68syn	5.11914e-08	1.000000	6.53152e-08	1.000000
rad9	4.85274e-08	1.000000	6.19161e-08	1.000000
rad42	4.85251e-08	1.000000	6.19131e-08	1.000000
rad68anti	3.37481e-08	1.000000	4.30593e-08	1.000000
rad13	3.20343e-08	1.000000	4.08726e-08	1.000000
rad45	2.92856e-08	1.000000	3.73655e-08	1.000000
rad28	1.66460e-08	1.000000	2.12386e-08	1.000000
rad40syn	1.23726e-08	1.000000	1.57862e-08	1.000000
rad73	1.03003e-08	1.000000	1.31422e-08	1.000000
rad71	9.53732e-09	1.000000	1.21686e-08	1.000000
rad40anti	6.48018e-09	1.000000	8.26808e-09	1.000000
rad61	4.96624e-09	1.000000	6.33641e-09	1.000000
rad2	4.32599e-09	1.000000	5.51953e-09	1.000000
rad21	3.82539e-09	1.000000	4.88083e-09	1.000000
rad10	3.47790e-09	1.000000	4.43746e-09	1.000000
rad41	3.08968e-09	1.000000	3.94212e-09	1.000000
rad36	2.82259e-09	1.000000	3.60135e-09	1.000000
rad26	1.58129e-09	1.000000	2.01757e-09	1.000000
rad20	1.55040e-09	1.000000	1.97817e-09	1.000000
rad1	1.02445e-09	1.000000	1.30710e-09	1.000000
rad33	9.78491e-10	1.000000	1.24846e-09	1.000000
rad22	6.72599e-10	1.000000	8.58171e-10	1.000000
rad3	4.36289e-10	1.000000	5.56663e-10	1.000000
rad18	3.49291e-10	1.000000	4.45660e-10	1.000000
rad4	3.47110e-10	1.000000	4.42878e-10	1.000000
rad15	2.40837e-10	1.000000	3.07283e-10	1.000000
rad25	1.94471e-10	1.000000	2.48127e-10	1.000000
rad72	1.35463e-10	1.000000	1.72837e-10	1.000000
rad24	8.67800e-11	1.000000	1.10723e-10	1.000000
rad12	7.87037e-11	1.000000	1.00418e-10	1.000000
rad14	1.13351e-11	1.000000	1.44625e-11	1.000000
rad27	2.46789e-12	1.000000	3.14878e-12	1.000000
rad8	9.26733e-13	1.000000	1.18242e-12	1.000000
rad31	3.51497e-13	1.000000	4.48476e-13	1.000000
rad47	1.36473e-14	1.000000	1.74125e-14	1.000000
rad5	9.84269e-15	1.000000	1.25583e-14	1.000000

1.00000000 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.61271e-12 (1.00)	3.52360e-12 (1.00)
Formation of rad11	1.20217e-12 (0.261)	7.28776e-13 (0.207)
Formation of rad6	1.56360e-12 (0.339)	9.47879e-13 (0.269)
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.524)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.524164	0.524164
Phenyl+Allene	0.236112	0.636514	0.000000	0.524164
Indene+H	0.0806423	0.717157	0.105568	0.629732
PhCH2CCH+H	0.0806393	0.797796	0.105564	0.735296
C2H2+PhCH2	0.0787002	0.876496	0.103026	0.838322
PhCHCCH2+H	0.0701565	0.946653	0.0918412	0.930163
PhCCH+CH3	0.0359347	0.982587	0.0470418	0.977205
PAH7+H	0.00805098	0.990638	0.0105394	0.987744
Ph+MeAc	0.00526012	0.995898	0.00688597	0.994630
rad39	0.00146493	0.997363	0.00191773	0.996548
PhCCCH3+H	0.000785539	0.998149	0.00102834	0.997576
rad19anti	0.000582993	0.998732	0.000763189	0.998339
rad19syn	0.000316582	0.999048	0.000414435	0.998754
PAH9+H	0.000302880	0.999351	0.000396498	0.999150
PhcycC3H3_A+H	0.000139922	0.999491	0.000183170	0.999333
rad38	0.000129517	0.999621	0.000169550	0.999503
rad54	0.000122814	0.999744	0.000160776	0.999664
rad35	5.49649e-05	0.999798	7.19541e-05	0.999736
rad46	3.45450e-05	0.999833	4.52226e-05	0.999781
rad30	3.01143e-05	0.999863	3.94223e-05	0.999820
PAH1+H	2.31915e-05	0.999886	3.03598e-05	0.999851
rad50	1.62846e-05	0.999903	2.13180e-05	0.999872
rad37	1.56196e-05	0.999918	2.04476e-05	0.999893
PAH3+H	1.44559e-05	0.999933	1.89241e-05	0.999911
rad70	1.26617e-05	0.999945	1.65753e-05	0.999928

PAH10+CH3	1.25765e-05	0.999958	1.64638e-05	0.999945
rad67	1.09810e-05	0.999969	1.43752e-05	0.999959
rad55	7.93634e-06	0.999977	1.03894e-05	0.999969
rad6	7.25843e-06	0.999984	9.50198e-06	0.999979
rad51	2.97004e-06	0.999987	3.88806e-06	0.999983
rad34	2.57558e-06	0.999990	3.37167e-06	0.999986
rad60syn	1.82793e-06	0.999991	2.39293e-06	0.999988
rad59	1.58472e-06	0.999993	2.07455e-06	0.999991
rad62	1.38713e-06	0.999994	1.81587e-06	0.999992
rad53	1.32212e-06	0.999996	1.73078e-06	0.999994
rad52	1.12452e-06	0.999997	1.47209e-06	0.999996
rad60anti	1.10269e-06	0.999998	1.44352e-06	0.999997
rad56	1.07230e-06	0.999999	1.40374e-06	0.999998
rad64	3.15108e-07	0.999999	4.12505e-07	0.999999
PAH8+H	1.66263e-07	1.000000	2.17654e-07	0.999999
rad11	1.47048e-07	1.000000	1.92500e-07	0.999999
rad7	1.44572e-07	1.000000	1.89258e-07	0.999999
rad43	1.09533e-07	1.000000	1.43389e-07	1.000000
rad68syn	9.28333e-08	1.000000	1.21528e-07	1.000000
rad65	8.89395e-08	1.000000	1.16430e-07	1.000000
rad58	8.42141e-08	1.000000	1.10244e-07	1.000000
rad42	7.16705e-08	1.000000	9.38235e-08	1.000000
rad68anti	6.10193e-08	1.000000	7.98801e-08	1.000000
rad23	6.02895e-08	1.000000	7.89246e-08	1.000000
rad9	3.12743e-08	1.000000	4.09409e-08	1.000000
rad40syn	2.48129e-08	1.000000	3.24823e-08	1.000000
rad71	2.36644e-08	1.000000	3.09788e-08	1.000000
rad73	2.33569e-08	1.000000	3.05763e-08	1.000000
rad13	1.92592e-08	1.000000	2.52120e-08	1.000000
rad45	1.65689e-08	1.000000	2.16901e-08	1.000000
rad40anti	1.33709e-08	1.000000	1.75037e-08	1.000000
rad28	1.30765e-08	1.000000	1.71183e-08	1.000000
rad61	9.15166e-09	1.000000	1.19803e-08	1.000000
rad41	4.14446e-09	1.000000	5.42549e-09	1.000000
rad21	2.43688e-09	1.000000	3.19009e-09	1.000000
rad36	1.61270e-09	1.000000	2.11118e-09	1.000000
rad2	1.60403e-09	1.000000	2.09983e-09	1.000000
rad10	1.58991e-09	1.000000	2.08134e-09	1.000000
rad26	9.48282e-10	1.000000	1.24139e-09	1.000000
rad20	8.89101e-10	1.000000	1.16391e-09	1.000000
rad22	6.62525e-10	1.000000	8.67307e-10	1.000000
rad33	6.34794e-10	1.000000	8.31001e-10	1.000000
rad72	4.08679e-10	1.000000	5.34997e-10	1.000000
rad1	3.83392e-10	1.000000	5.01898e-10	1.000000
rad15	3.42707e-10	1.000000	4.48634e-10	1.000000
rad18	2.49481e-10	1.000000	3.26594e-10	1.000000
rad3	2.04141e-10	1.000000	2.67239e-10	1.000000
rad4	1.63285e-10	1.000000	2.13755e-10	1.000000
rad25	1.38089e-10	1.000000	1.80771e-10	1.000000
rad12	6.49352e-11	1.000000	8.50058e-11	1.000000
rad24	6.18623e-11	1.000000	8.09835e-11	1.000000
rad14	7.09810e-12	1.000000	9.29204e-12	1.000000
rad27	1.20132e-12	1.000000	1.57263e-12	1.000000
rad8	9.77110e-13	1.000000	1.27912e-12	1.000000
rad31	2.37881e-13	1.000000	3.11409e-13	1.000000
rad47	2.22081e-14	1.000000	2.90725e-14	1.000000
rad5	1.96937e-14	1.000000	2.57809e-14	1.000000

1.00000000 Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.27398e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.05237e-12 (0.168)
Formation of rad6	2.80256e-12 (0.325)	1.44564e-12 (0.230)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.602)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.601847	0.601847
Phenyl+Allene	0.272050	0.710164	0.000000	0.601847
PhCH2CCH+H	0.0933387	0.803503	0.128221	0.730068
PhCHCCH2+H	0.0656316	0.869135	0.0901598	0.820228
C2H2+PhCH2	0.0475953	0.916730	0.0653827	0.885611
Indene+H	0.0395350	0.956265	0.0543101	0.939921
PhCCH+CH3	0.0276505	0.983916	0.0379841	0.977905
PAH7+H	0.00712600	0.991042	0.00978915	0.987694
Ph+MeAc	0.00488535	0.995927	0.00671111	0.994405
rad39	0.00123375	0.997161	0.00169484	0.996100
rad19anti	0.000564105	0.997725	0.000774925	0.996875

rad19syn	0.000506204	0.998231	0.000695382	0.997570
PhCCCH3+H	0.000461460	0.998692	0.000633919	0.998204
PhcycC3H3_A+H	0.000354673	0.999047	0.000487220	0.998691
PAH9+H	0.000266756	0.999314	0.000366449	0.999058
rad54	0.000215019	0.999529	0.000295376	0.999353
rad38	0.000142786	0.999672	0.000196149	0.999549
rad35	4.88430e-05	0.999720	6.70968e-05	0.999616
PAH1+H	4.24114e-05	0.999763	5.82613e-05	0.999675
rad46	3.79773e-05	0.999801	5.21704e-05	0.999727
rad50	2.39034e-05	0.999825	3.28366e-05	0.999760
rad30	2.30173e-05	0.999848	3.16193e-05	0.999791
PAH10+CH3	2.22305e-05	0.999870	3.05385e-05	0.999822
rad70	2.20513e-05	0.999892	3.02924e-05	0.999852
PAH3+H	2.08066e-05	0.999913	2.85824e-05	0.999881
rad55	1.72040e-05	0.999930	2.36336e-05	0.999904
rad67	1.69180e-05	0.999947	2.32406e-05	0.999928
rad37	1.61427e-05	0.999963	2.21756e-05	0.999950
rad51	6.13860e-06	0.999969	8.43272e-06	0.999958
rad34	5.25708e-06	0.999975	7.22174e-06	0.999965
rad53	4.39622e-06	0.999979	6.03919e-06	0.999971
rad6	4.02751e-06	0.999983	5.53269e-06	0.999977
rad56	3.99447e-06	0.999987	5.48731e-06	0.999982
rad62	2.35622e-06	0.999989	3.23679e-06	0.999986
rad59	2.06490e-06	0.999991	2.83660e-06	0.999989
rad52	2.03632e-06	0.999993	2.79734e-06	0.999991
rad60syn	1.94294e-06	0.999995	2.66906e-06	0.999994
rad60anti	1.30715e-06	0.999997	1.79566e-06	0.999996
rad64	7.88758e-07	0.999997	1.08353e-06	0.999997
PAH8+H	5.91047e-07	0.999998	8.11938e-07	0.999998
rad68syn	2.81809e-07	0.999998	3.87127e-07	0.999998
rad68anti	1.82612e-07	0.999999	2.50858e-07	0.999998
rad65	1.74812e-07	0.999999	2.40142e-07	0.999999
rad42	1.70628e-07	0.999999	2.34395e-07	0.999999
rad58	1.57384e-07	0.999999	2.16202e-07	0.999999
rad71	1.46691e-07	0.999999	2.01513e-07	0.999999
rad43	1.31446e-07	0.999999	1.80570e-07	0.999999
rad73	1.06502e-07	0.999999	1.46304e-07	1.000000
rad40syn	8.39889e-08	0.999999	1.15377e-07	1.000000
rad40anti	5.01355e-08	1.000000	6.88721e-08	1.000000
rad61	2.64442e-08	1.000000	3.63270e-08	1.000000
rad7	2.37186e-08	1.000000	3.25827e-08	1.000000
rad11	1.77491e-08	1.000000	2.43822e-08	1.000000
rad23	1.03854e-08	1.000000	1.42667e-08	1.000000
rad28	9.19896e-09	1.000000	1.26368e-08	1.000000
rad41	7.92118e-09	1.000000	1.08815e-08	1.000000
rad72	7.89263e-09	1.000000	1.08423e-08	1.000000
rad9	2.31225e-09	1.000000	3.17640e-09	1.000000
rad13	1.61650e-09	1.000000	2.22062e-09	1.000000
rad45	1.35528e-09	1.000000	1.86178e-09	1.000000
rad22	1.01085e-09	1.000000	1.38862e-09	1.000000
rad36	2.32832e-10	1.000000	3.19847e-10	1.000000
rad26	2.08726e-10	1.000000	2.86732e-10	1.000000
rad21	1.98225e-10	1.000000	2.72306e-10	1.000000
rad15	1.13930e-10	1.000000	1.56508e-10	1.000000
rad10	1.03653e-10	1.000000	1.42391e-10	1.000000
rad20	6.47921e-11	1.000000	8.90059e-11	1.000000
rad33	5.54261e-11	1.000000	7.61400e-11	1.000000
rad2	4.20539e-11	1.000000	5.77704e-11	1.000000
rad18	3.03569e-11	1.000000	4.17018e-11	1.000000
rad25	1.43152e-11	1.000000	1.96651e-11	1.000000
rad1	1.06660e-11	1.000000	1.46522e-11	1.000000
rad12	7.47094e-12	1.000000	1.02630e-11	1.000000
rad3	6.71408e-12	1.000000	9.22329e-12	1.000000
rad24	6.07005e-12	1.000000	8.33852e-12	1.000000
rad4	4.28817e-12	1.000000	5.89075e-12	1.000000
rad14	7.62523e-13	1.000000	1.04750e-12	1.000000
rad8	2.76600e-13	1.000000	3.79972e-13	1.000000
rad27	6.99873e-14	1.000000	9.61432e-14	1.000000
rad5	6.36346e-14	1.000000	8.74161e-14	1.000000
rad47	1.44402e-14	1.000000	1.98369e-14	1.000000

1.00000000 Pa, 2000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.44111e-11 (1.00)	1.02930e-11 (1.00)
Formation of rad11	3.16882e-12 (0.220)	1.47448e-12 (0.143)
Formation of rad6	4.53302e-12 (0.315)	2.10926e-12 (0.205)
H-abstraction	6.70922e-12 (0.466)	6.70922e-12 (0.652)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.651826	0.651826
Phenyl+Allene	0.285760	0.751320	0.00000	0.651826
PhCH2CCH+H	0.0971788	0.848499	0.136059	0.787885
PhCHCCH2+H	0.0592988	0.907797	0.0830239	0.870908
C2H2+PhCH2	0.0319937	0.939791	0.0447940	0.915702
Indene+H	0.0233041	0.963095	0.0326278	0.948330
PhCCH+CH3	0.0216463	0.984741	0.0303068	0.978637
PAH7+H	0.00659328	0.991335	0.00923115	0.987868
Ph+MeAc	0.00420936	0.995544	0.00589348	0.993762
rad39	0.00101471	0.996559	0.00142069	0.995182
rad19syn	0.000746815	0.997306	0.00104561	0.996228
PhcycC3H3_A+H	0.000656394	0.997962	0.000919006	0.997147
rad19anti	0.000529223	0.998491	0.000740960	0.997888
rad54	0.000330246	0.998822	0.000462372	0.998350
PhCCCH3+H	0.000291957	0.999113	0.000408767	0.998759
PAH9+H	0.000279553	0.999393	0.000391400	0.999150
rad38	0.000156421	0.999549	0.000219003	0.999369
PAH1+H	6.97032e-05	0.999619	9.75912e-05	0.999467
rad35	5.18647e-05	0.999671	7.26152e-05	0.999540
rad46	4.57442e-05	0.999717	6.40460e-05	0.999604
rad50	3.87602e-05	0.999756	5.42678e-05	0.999658
PAH10+CH3	3.34481e-05	0.999789	4.68305e-05	0.999705
rad70	3.20127e-05	0.999821	4.48208e-05	0.999750
rad55	2.86900e-05	0.999850	4.01685e-05	0.999790
PAH3+H	2.79054e-05	0.999878	3.90700e-05	0.999829
rad67	2.51589e-05	0.999903	3.52248e-05	0.999864
rad30	1.88900e-05	0.999922	2.64477e-05	0.999891
rad37	1.66057e-05	0.999938	2.32494e-05	0.999914
rad51	1.23047e-05	0.999951	1.72276e-05	0.999931
rad56	1.03268e-05	0.999961	1.44585e-05	0.999946
rad53	9.91086e-06	0.999971	1.38761e-05	0.999959
rad34	8.56189e-06	0.999979	1.19874e-05	0.999971
rad52	3.64256e-06	0.999983	5.09992e-06	0.999976
rad62	3.41539e-06	0.999986	4.78186e-06	0.999981
rad59	2.58717e-06	0.999989	3.62227e-06	0.999985
rad60syn	2.06844e-06	0.999991	2.89601e-06	0.999988
PAH8+H	1.81490e-06	0.999993	2.54102e-06	0.999990
rad64	1.47587e-06	0.999994	2.06636e-06	0.999992
rad60anti	1.42207e-06	0.999996	1.99103e-06	0.999994
rad6	6.77857e-07	0.999996	9.49064e-07	0.999995
rad68syn	6.53930e-07	0.999997	9.15563e-07	0.999996
rad71	5.04969e-07	0.999998	7.07003e-07	0.999997
rad68anti	4.21815e-07	0.999998	5.90580e-07	0.999998
rad73	3.40924e-07	0.999998	4.77326e-07	0.999998
rad65	3.37943e-07	0.999999	4.73151e-07	0.999998
rad42	3.12220e-07	0.999999	4.37136e-07	0.999999
rad58	2.75733e-07	0.999999	3.86052e-07	0.999999
rad40syn	2.27549e-07	1.000000	3.18589e-07	1.000000
rad43	1.62539e-07	1.000000	2.27570e-07	1.000000
rad40anti	1.42680e-07	1.000000	1.99766e-07	1.000000
rad61	5.98984e-08	1.000000	8.38630e-08	1.000000
rad72	2.22497e-08	1.000000	3.11516e-08	1.000000
rad41	1.34693e-08	1.000000	1.88582e-08	1.000000
rad7	5.32760e-09	1.000000	7.45911e-09	1.000000
rad23	4.18300e-09	1.000000	5.85657e-09	1.000000
rad11	4.17023e-09	1.000000	5.83871e-09	1.000000
rad28	2.29811e-09	1.000000	3.21757e-09	1.000000
rad9	7.86113e-10	1.000000	1.10063e-09	1.000000
rad13	4.90709e-10	1.000000	6.87035e-10	1.000000
rad45	4.11527e-10	1.000000	5.76173e-10	1.000000
rad22	2.83899e-10	1.000000	3.97483e-10	1.000000
rad36	7.23332e-11	1.000000	1.01273e-10	1.000000
rad21	7.16946e-11	1.000000	1.00379e-10	1.000000
rad15	4.02777e-11	1.000000	5.63924e-11	1.000000
rad26	3.59294e-11	1.000000	5.03042e-11	1.000000
rad33	2.26361e-11	1.000000	3.16926e-11	1.000000
rad20	1.90283e-11	1.000000	2.66413e-11	1.000000
rad10	1.32687e-11	1.000000	1.85774e-11	1.000000
rad18	6.70904e-12	1.000000	9.39322e-12	1.000000
rad25	5.80049e-12	1.000000	8.12120e-12	1.000000
rad2	5.15732e-12	1.000000	7.22072e-12	1.000000
rad12	4.14753e-12	1.000000	5.80692e-12	1.000000
rad24	2.85154e-12	1.000000	3.99241e-12	1.000000
rad3	1.67198e-12	1.000000	2.34092e-12	1.000000
rad1	1.35362e-12	1.000000	1.89519e-12	1.000000
rad4	1.06137e-12	1.000000	1.48601e-12	1.000000
rad14	2.93741e-13	1.000000	4.11263e-13	1.000000
rad8	2.34719e-13	1.000000	3.28627e-13	1.000000

rad5	3.94274e-14	1.000000	5.52020e-14	1.00000
rad47	2.87017e-14	1.000000	4.01849e-14	1.00000
rad27	1.91208e-14	1.000000	2.67708e-14	1.00000

1.00000000 Pa, 2250.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.23655e-11	(1.00)	1.58437e-11	(1.00)
Formation of rad11	4.62280e-12	(0.207)	1.98925e-12	(0.126)
Formation of rad6	6.82518e-12	(0.305)	2.93696e-12	(0.185)
H-abstraction	1.09175e-11	(0.488)	1.09175e-11	(0.689)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.689074	0.689074
Phenyl+Allene	0.291600	0.779740	0.000000	0.689074
PhCH2CCH+H	0.0967415	0.876482	0.136563	0.825637
PhCHCCH2+H	0.0532744	0.929756	0.0752040	0.900841
C2H2+PhCH2	0.0232641	0.953020	0.0328403	0.933682
PhCCH+CH3	0.0176492	0.970669	0.0249142	0.958596
Indene+H	0.0145377	0.985207	0.0205220	0.979118
PAH7+H	0.00604332	0.991250	0.00853097	0.987649
Ph+MeAc	0.00373478	0.994985	0.00527212	0.992921
PhcycC3H3_A+H	0.00104441	0.996029	0.00147433	0.994395
rad19syn	0.000992655	0.997022	0.00140127	0.995797
rad39	0.000833753	0.997856	0.00117695	0.996973
rad19anti	0.000463518	0.998319	0.000654319	0.997628
rad54	0.000448434	0.998768	0.000633023	0.998261
PAH9+H	0.000276007	0.999044	0.000389621	0.998650
PhCCCH3+H	0.000209664	0.999253	0.000295969	0.998946
rad38	0.000160721	0.999414	0.000226879	0.999173
PAH1+H	9.95951e-05	0.999514	0.000140592	0.999314
rad50	5.46364e-05	0.999568	7.71264e-05	0.999391
rad35	5.24984e-05	0.999621	7.41086e-05	0.999465
rad46	5.06993e-05	0.999672	7.15686e-05	0.999537
PAH10+CH3	4.32193e-05	0.999715	6.10099e-05	0.999598
rad55	4.15451e-05	0.999756	5.86465e-05	0.999656
rad70	4.13233e-05	0.999798	5.83331e-05	0.999715
PAH3+H	3.54274e-05	0.999833	5.00106e-05	0.999765
rad67	3.21711e-05	0.999865	4.54138e-05	0.999810
rad56	2.10966e-05	0.999886	2.97806e-05	0.999840
rad51	2.05320e-05	0.999907	2.89836e-05	0.999869
rad53	1.82257e-05	0.999925	2.57280e-05	0.999895
rad30	1.61769e-05	0.999941	2.28359e-05	0.999917
rad37	1.58091e-05	0.999957	2.23166e-05	0.999940
rad34	1.21378e-05	0.999969	1.71341e-05	0.999957
rad52	5.53750e-06	0.999975	7.81690e-06	0.999965
rad62	4.54186e-06	0.999979	6.41145e-06	0.999971
PAH8+H	4.26428e-06	0.999984	6.01959e-06	0.999977
rad59	3.10134e-06	0.999987	4.37796e-06	0.999982
rad64	2.31393e-06	0.999989	3.26643e-06	0.999985
rad60syn	2.18352e-06	0.999991	3.08232e-06	0.999988
rad60anti	1.52762e-06	0.999993	2.15643e-06	0.999990
rad71	1.42875e-06	0.999994	2.01686e-06	0.999992
rad68syn	1.22836e-06	0.999995	1.73398e-06	0.999994
rad73	8.53757e-07	0.999996	1.20519e-06	0.999995
rad68anti	7.89702e-07	0.999997	1.11477e-06	0.999996
rad65	5.43657e-07	0.999998	7.67443e-07	0.999997
rad42	4.97984e-07	0.999998	7.02969e-07	0.999998
rad40syn	4.83641e-07	0.999999	6.82722e-07	0.999998
rad58	4.30307e-07	0.999999	6.07437e-07	0.999999
rad40anti	3.15368e-07	0.999999	4.45184e-07	0.999999
rad43	2.01354e-07	1.000000	2.84238e-07	1.000000
rad6	1.27775e-07	1.000000	1.80371e-07	1.000000
rad61	1.06766e-07	1.000000	1.50714e-07	1.000000
rad72	7.90076e-08	1.000000	1.11530e-07	1.000000
rad41	2.11936e-08	1.000000	2.99175e-08	1.000000
rad7	1.70324e-09	1.000000	2.40435e-09	1.000000
rad11	1.30077e-09	1.000000	1.83620e-09	1.000000
rad23	1.02384e-09	1.000000	1.44528e-09	1.000000
rad28	4.59446e-10	1.000000	6.48570e-10	1.000000
rad9	2.85655e-10	1.000000	4.03240e-10	1.000000
rad13	1.83088e-10	1.000000	2.58453e-10	1.000000
rad45	1.42667e-10	1.000000	2.01393e-10	1.000000
rad22	7.02169e-11	1.000000	9.91204e-11	1.000000
rad21	2.98156e-11	1.000000	4.20888e-11	1.000000
rad36	2.55756e-11	1.000000	3.61035e-11	1.000000
rad15	1.61913e-11	1.000000	2.28561e-11	1.000000
rad33	1.06534e-11	1.000000	1.50387e-11	1.000000

rad26	9.05685e-12	1.000000	1.27849e-11	1.00000
rad20	6.79760e-12	1.000000	9.59570e-12	1.00000
rad10	3.32973e-12	1.000000	4.70036e-12	1.00000
rad25	2.68389e-12	1.000000	3.78866e-12	1.00000
rad12	2.31791e-12	1.000000	3.27203e-12	1.00000
rad18	2.04126e-12	1.000000	2.88151e-12	1.00000
rad24	1.45641e-12	1.000000	2.05592e-12	1.00000
rad2	9.54834e-13	1.000000	1.34787e-12	1.00000
rad3	5.41323e-13	1.000000	7.64147e-13	1.00000
rad4	3.37752e-13	1.000000	4.76783e-13	1.00000
rad1	2.53475e-13	1.000000	3.57814e-13	1.00000
rad8	2.01394e-13	1.000000	2.84295e-13	1.00000
rad14	1.41114e-13	1.000000	1.99200e-13	1.00000
rad47	4.71953e-14	1.000000	6.66224e-14	1.00000
rad5	2.25155e-14	1.000000	3.17835e-14	1.00000
rad27	7.40144e-15	1.000000	1.04481e-14	1.00000

1.0000000 Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.28090e-11 (1.00)	2.31980e-11 (1.00)
Formation of rad11	6.43164e-12 (0.196)	2.60906e-12 (0.112)
Formation of rad6	9.73932e-12 (0.297)	3.95085e-12 (0.170)
H-abstraction	1.66381e-11 (0.507)	1.66381e-11 (0.717)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.717221	0.717221
Phenyl+Allene	0.292939	0.800058	0.00000	0.717221
PhCH2CCH+H	0.0943957	0.894453	0.133504	0.850725
PhCHCCH2+H	0.0481939	0.942647	0.0681609	0.918886
C2H2+PhCH2	0.0183497	0.960997	0.0259521	0.944838
PhCCH+CH3	0.0148752	0.975872	0.0210380	0.965876
Indene+H	0.00953292	0.985405	0.0134824	0.979358
PAH7+H	0.00553043	0.990936	0.00782174	0.987180
Ph+MeAc	0.00339482	0.994330	0.00480131	0.991981
PhcycC3H3_A+H	0.00149310	0.995823	0.00211170	0.994093
rad19syn	0.00122619	0.997050	0.00173420	0.995827
rad39	0.000692493	0.997742	0.000979395	0.996807
rad54	0.000558297	0.998300	0.000789599	0.997596
rad19anti	0.000392539	0.998693	0.000555170	0.998152
PAH9+H	0.000261382	0.998954	0.000369675	0.998521
PhCCCH3+H	0.000164587	0.999119	0.000232776	0.998754
rad38	0.000157798	0.999277	0.000223175	0.998977
PAH1+H	0.000129618	0.999406	0.000183320	0.999160
rad50	6.95426e-05	0.999476	9.83547e-05	0.999259
rad55	5.44678e-05	0.999530	7.70339e-05	0.999336
rad46	5.29591e-05	0.999583	7.49004e-05	0.999411
rad35	5.14100e-05	0.999635	7.27094e-05	0.999483
PAH10+CH3	5.04331e-05	0.999685	7.13280e-05	0.999555
rad70	4.95228e-05	0.999735	7.00399e-05	0.999625
PAH3+H	4.31618e-05	0.999778	6.10439e-05	0.999686
rad67	3.73883e-05	0.999815	5.28783e-05	0.999739
rad56	3.65114e-05	0.999852	5.16384e-05	0.999790
rad51	2.99358e-05	0.999882	4.23383e-05	0.999833
rad53	2.90214e-05	0.999911	4.10452e-05	0.999874
rad34	1.57208e-05	0.999926	2.22340e-05	0.999896
rad30	1.43454e-05	0.999941	2.02888e-05	0.999916
rad37	1.43019e-05	0.999955	2.02272e-05	0.999937
PAH8+H	8.32891e-06	0.999963	1.17796e-05	0.999948
rad52	7.47647e-06	0.999971	1.05740e-05	0.999959
rad62	5.70274e-06	0.999977	8.06541e-06	0.999967
rad59	3.60017e-06	0.999980	5.09176e-06	0.999972
rad64	3.22136e-06	0.999983	4.55600e-06	0.999977
rad71	3.21565e-06	0.999987	4.54791e-06	0.999981
rad60syn	2.29248e-06	0.999989	3.24226e-06	0.999984
rad68syn	1.99920e-06	0.999991	2.82748e-06	0.999987
rad73	1.73054e-06	0.999993	2.44751e-06	0.999990
rad60anti	1.62672e-06	0.999994	2.30068e-06	0.999992
rad68anti	1.28206e-06	0.999996	1.81322e-06	0.999994
rad40syn	8.70434e-07	0.999996	1.23106e-06	0.999995
rad65	7.65711e-07	0.999997	1.08295e-06	0.999996
rad42	7.25383e-07	0.999998	1.02592e-06	0.999997
rad58	6.16767e-07	0.999999	8.72295e-07	0.999998
rad40anti	5.85903e-07	0.999999	8.28646e-07	0.999999
rad43	2.45121e-07	0.999999	3.46676e-07	0.999999
rad72	2.19643e-07	1.000000	3.10642e-07	0.999999
rad61	1.61752e-07	1.000000	2.28766e-07	1.000000
rad6	3.44468e-08	1.000000	4.87184e-08	1.000000

rad41	3.09950e-08	1.000000	4.38365e-08	1.000000
rad7	6.66346e-10	1.000000	9.42419e-10	1.000000
rad11	4.84238e-10	1.000000	6.84861e-10	1.000000
rad23	2.90419e-10	1.000000	4.10740e-10	1.000000
rad28	1.22471e-10	1.000000	1.73211e-10	1.000000
rad9	1.11417e-10	1.000000	1.57577e-10	1.000000
rad13	7.92317e-11	1.000000	1.12058e-10	1.000000
rad45	5.55960e-11	1.000000	7.86297e-11	1.000000
rad22	2.20412e-11	1.000000	3.11730e-11	1.000000
rad21	1.39425e-11	1.000000	1.97189e-11	1.000000
rad36	1.01354e-11	1.000000	1.43346e-11	1.000000
rad15	7.01188e-12	1.000000	9.91691e-12	1.000000
rad33	5.56606e-12	1.000000	7.87213e-12	1.000000
rad26	3.15242e-12	1.000000	4.45847e-12	1.000000
rad20	2.90121e-12	1.000000	4.10319e-12	1.000000
rad25	1.37211e-12	1.000000	1.94059e-12	1.000000
rad12	1.32607e-12	1.000000	1.87547e-12	1.000000
rad10	1.18502e-12	1.000000	1.67598e-12	1.000000
rad24	7.99119e-13	1.000000	1.13020e-12	1.000000
rad18	7.68309e-13	1.000000	1.08662e-12	1.000000
rad2	2.58799e-13	1.000000	3.66021e-13	1.000000
rad3	2.15175e-13	1.000000	3.04324e-13	1.000000
rad8	1.74705e-13	1.000000	2.47086e-13	1.000000
rad4	1.31407e-13	1.000000	1.85849e-13	1.000000
rad14	7.79275e-14	1.000000	1.10213e-13	1.000000
rad47	6.74996e-14	1.000000	9.54649e-14	1.000000
rad1	6.73187e-14	1.000000	9.52090e-14	1.000000
rad5	1.47605e-14	1.000000	2.08758e-14	1.000000
rad27	3.68216e-15	1.000000	5.20769e-15	1.000000

1.00000000 Pa, 2750.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	4.60596e-11	(1.00)	3.26255e-11	(1.00)
Formation of rad11	8.62280e-12	(0.187)	3.34633e-12	(0.103)
Formation of rad6	1.33313e-11	(0.289)	5.17360e-12	(0.159)
H-abstraction	2.41055e-11	(0.523)	2.41055e-11	(0.739)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.738856	0.738856
Phenyl+Allene	0.291669	0.815024	0.000000	0.738856
PhCH2CCH+H	0.0913925	0.906416	0.129025	0.867881
PhCHCCH2+H	0.0440897	0.950506	0.0622446	0.930126
C2H2+PhCH2	0.0155259	0.966032	0.0219190	0.952045
PhCCH+CH3	0.0128664	0.978898	0.0181644	0.970209
Indene+H	0.00652675	0.985425	0.00921427	0.979424
PAH7+H	0.00506746	0.990493	0.00715408	0.986578
Ph+MeAc	0.00315047	0.993643	0.00444775	0.991026
PhcycC3H3_A+H	0.00197301	0.995616	0.00278544	0.993811
rad19syn	0.00143569	0.997052	0.00202686	0.995838
rad54	0.000652594	0.997704	0.000921315	0.996759
rad39	0.000584043	0.998288	0.000824532	0.997584
rad19anti	0.000328573	0.998617	0.000463869	0.998048
PAH9+H	0.000240059	0.998857	0.000338907	0.998386
PAH1+H	0.000158292	0.999015	0.000223471	0.998610
rad38	0.000149711	0.999165	0.000211358	0.998821
PhCCH3+H	0.000136861	0.999302	0.000193217	0.999014
rad50	8.19606e-05	0.999384	0.000115709	0.999130
rad55	6.64334e-05	0.999450	9.37887e-05	0.999224
rad70	5.64830e-05	0.999507	7.97407e-05	0.999304
rad56	5.59920e-05	0.999563	7.90479e-05	0.999383
PAH10+CH3	5.49972e-05	0.999618	7.76435e-05	0.999460
rad46	5.29191e-05	0.999671	7.47093e-05	0.999535
PAH3+H	5.07704e-05	0.999721	7.16761e-05	0.999607
rad35	4.92117e-05	0.999771	6.94754e-05	0.999676
rad53	4.15959e-05	0.999812	5.87239e-05	0.999735
rad67	4.08894e-05	0.999853	5.77263e-05	0.999793
rad51	3.94235e-05	0.999893	5.56570e-05	0.999848
rad34	1.91382e-05	0.999912	2.70187e-05	0.999875
PAH8+H	1.42400e-05	0.999926	2.01036e-05	0.999895
rad30	1.30159e-05	0.999939	1.83754e-05	0.999914
rad37	1.25497e-05	0.999952	1.77173e-05	0.999932
rad52	9.23210e-06	0.999961	1.30336e-05	0.999945
rad62	6.96508e-06	0.999968	9.83310e-06	0.999954
rad71	6.06307e-06	0.999974	8.55966e-06	0.999963
rad64	4.12925e-06	0.999978	5.82954e-06	0.999969
rad59	4.06487e-06	0.999982	5.73866e-06	0.999975
rad73	2.98838e-06	0.999985	4.21891e-06	0.999979

rad68syn	2.93858e-06	0.999988	4.14861e-06	0.999983
rad60syn	2.38752e-06	0.999990	3.37063e-06	0.999986
rad68anti	1.88087e-06	0.999992	2.65536e-06	0.999989
rad60anti	1.71401e-06	0.999994	2.41979e-06	0.999991
rad40syn	1.39059e-06	0.999995	1.96319e-06	0.999993
rad42	1.00619e-06	0.999996	1.42051e-06	0.999995
rad65	9.77123e-07	0.999997	1.37947e-06	0.999996
rad40anti	9.60898e-07	0.999998	1.35656e-06	0.999998
rad58	8.26832e-07	0.999999	1.16730e-06	0.999999
rad72	4.93276e-07	1.000000	6.96392e-07	0.999999
rad43	2.90364e-07	1.000000	4.09928e-07	1.000000
rad61	2.19015e-07	1.000000	3.09199e-07	1.000000
rad41	4.25217e-08	1.000000	6.00309e-08	1.000000
rad6	1.16885e-08	1.000000	1.65015e-08	1.000000
rad7	2.99244e-10	1.000000	4.22462e-10	1.000000
rad11	2.07060e-10	1.000000	2.92322e-10	1.000000
rad23	9.97743e-11	1.000000	1.40859e-10	1.000000
rad9	4.67570e-11	1.000000	6.60103e-11	1.000000
rad28	4.15055e-11	1.000000	5.85962e-11	1.000000
rad13	3.85250e-11	1.000000	5.43884e-11	1.000000
rad45	2.39242e-11	1.000000	3.37755e-11	1.000000
rad22	8.24148e-12	1.000000	1.16351e-11	1.000000
rad21	7.20654e-12	1.000000	1.01740e-11	1.000000
rad36	4.42335e-12	1.000000	6.24475e-12	1.000000
rad15	3.23394e-12	1.000000	4.56557e-12	1.000000
rad33	3.15115e-12	1.000000	4.44871e-12	1.000000
rad20	1.44967e-12	1.000000	2.04660e-12	1.000000
rad26	1.28318e-12	1.000000	1.81155e-12	1.000000
rad12	7.84787e-13	1.000000	1.10794e-12	1.000000
rad25	7.63533e-13	1.000000	1.07793e-12	1.000000
rad10	5.06421e-13	1.000000	7.14949e-13	1.000000
rad24	4.65718e-13	1.000000	6.57487e-13	1.000000
rad18	3.40242e-13	1.000000	4.80345e-13	1.000000
rad8	1.53001e-13	1.000000	2.16002e-13	1.000000
rad3	9.98677e-14	1.000000	1.40990e-13	1.000000
rad2	9.21718e-14	1.000000	1.30125e-13	1.000000
rad47	8.69692e-14	1.000000	1.22780e-13	1.000000
rad4	5.99281e-14	1.000000	8.46048e-14	1.000000
rad14	4.76216e-14	1.000000	6.72306e-14	1.000000
rad1	2.30245e-14	1.000000	3.25053e-14	1.000000
rad5	1.03334e-14	1.000000	1.45883e-14	1.000000
rad27	2.16165e-15	1.000000	3.05175e-15	1.000000

1.00000000 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.43911e-11 (1.00)
Formation of rad11	1.12221e-11 (0.180)	4.21269e-12 (0.0949)
Formation of rad6	1.76534e-11 (0.283)	6.62699e-12 (0.149)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.756)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.755814	0.755814
Phenyl+Allene	0.288911	0.826362	0.000000	0.755814
PhCH2CCH+H	0.0883066	0.914669	0.124185	0.879999
PhCHCCH2+H	0.0408111	0.955480	0.0573925	0.937392
C2H2+PhCH2	0.0138651	0.969345	0.0194984	0.956890
PhCCH+CH3	0.0113582	0.980703	0.0159730	0.972863
PAH7+H	0.00465329	0.985356	0.00654386	0.979407
Indene+H	0.00463895	0.989995	0.00652370	0.985931
Ph+MeAc	0.00297587	0.992971	0.00418496	0.990116
PhcycC3H3_A+H	0.00245642	0.995427	0.00345445	0.993570
rad19syn	0.00161454	0.997042	0.00227052	0.995841
rad54	0.000727890	0.997770	0.00102362	0.996864
rad39	0.000500510	0.998270	0.000703861	0.997568
rad19anti	0.000275358	0.998546	0.000387232	0.997955
PAH9+H	0.000215435	0.998761	0.000302964	0.998258
PAH1+H	0.000185098	0.998946	0.000260302	0.998519
rad38	0.000138297	0.999085	0.000194486	0.998713
PhCCCH3+H	0.000118094	0.999203	0.000166075	0.998879
rad50	9.10199e-05	0.999294	0.000128001	0.999007
rad56	7.84307e-05	0.999372	0.000110297	0.999117
rad55	7.67854e-05	0.999449	0.000107983	0.999225
rad70	6.22156e-05	0.999511	8.74935e-05	0.999313
PAH3+H	5.79162e-05	0.999569	8.14472e-05	0.999394
PAH10+CH3	5.73435e-05	0.999626	8.06419e-05	0.999475
rad53	5.50942e-05	0.999682	7.74787e-05	0.999552
rad46	5.10964e-05	0.999733	7.18563e-05	0.999624

rad51	4.79927e-05	0.999781	6.74920e-05	0.999692
rad35	4.64038e-05	0.999827	6.52572e-05	0.999757
rad67	4.30004e-05	0.999870	6.04712e-05	0.999818
rad34	2.22803e-05	0.999892	3.13327e-05	0.999849
PAH8+H	2.20424e-05	0.999914	3.09982e-05	0.999880
rad30	1.19659e-05	0.999926	1.68276e-05	0.999897
rad37	1.08360e-05	0.999937	1.52386e-05	0.999912
rad52	1.06405e-05	0.999948	1.49637e-05	0.999927
rad71	9.97870e-06	0.999958	1.40329e-05	0.999941
rad62	8.52399e-06	0.999966	1.19872e-05	0.999953
rad64	4.99011e-06	0.999971	7.01754e-06	0.999960
rad73	4.56455e-06	0.999976	6.41909e-06	0.999966
rad59	4.47702e-06	0.999980	6.29599e-06	0.999973
rad68syn	4.00554e-06	0.999984	5.63295e-06	0.999978
rad68anti	2.55993e-06	0.999987	3.60003e-06	0.999982
rad60syn	2.46101e-06	0.999989	3.46090e-06	0.999985
rad40syn	2.03324e-06	0.999991	2.85932e-06	0.999988
rad60anti	1.78407e-06	0.999993	2.50894e-06	0.999991
rad40anti	1.43624e-06	0.999995	2.01978e-06	0.999993
rad42	1.37800e-06	0.999996	1.93787e-06	0.999995
rad65	1.15675e-06	0.999997	1.62673e-06	0.999996
rad58	1.05023e-06	0.999998	1.47693e-06	0.999998
rad72	9.39298e-07	0.999999	1.32093e-06	0.999999
rad43	3.36095e-07	0.999999	4.72649e-07	1.000000
rad61	2.73990e-07	1.000000	3.85311e-07	1.000000
rad41	5.56844e-08	1.000000	7.83090e-08	1.000000
rad6	4.63747e-09	1.000000	6.52162e-09	1.000000
rad7	1.49310e-10	1.000000	2.09974e-10	1.000000
rad11	9.93920e-11	1.000000	1.39774e-10	1.000000
rad23	3.89688e-11	1.000000	5.48014e-11	1.000000
rad9	2.11125e-11	1.000000	2.96903e-11	1.000000
rad13	2.05743e-11	1.000000	2.89336e-11	1.000000
rad28	1.64305e-11	1.000000	2.31061e-11	1.000000
rad45	1.11788e-11	1.000000	1.57207e-11	1.000000
rad21	4.05235e-12	1.000000	5.69879e-12	1.000000
rad22	3.50774e-12	1.000000	4.93292e-12	1.000000
rad36	2.09092e-12	1.000000	2.94044e-12	1.000000
rad33	1.89992e-12	1.000000	2.67183e-12	1.000000
rad15	1.58658e-12	1.000000	2.23120e-12	1.000000
rad20	8.26107e-13	1.000000	1.16175e-12	1.000000
rad26	5.75124e-13	1.000000	8.08795e-13	1.000000
rad12	4.82938e-13	1.000000	6.79154e-13	1.000000
rad25	4.56609e-13	1.000000	6.42126e-13	1.000000
rad24	2.85392e-13	1.000000	4.01344e-13	1.000000
rad10	2.42399e-13	1.000000	3.40884e-13	1.000000
rad18	1.70894e-13	1.000000	2.40327e-13	1.000000
rad8	1.34848e-13	1.000000	1.89636e-13	1.000000
rad47	1.03449e-13	1.000000	1.45480e-13	1.000000
rad3	5.20788e-14	1.000000	7.32382e-14	1.000000
rad2	3.97866e-14	1.000000	5.59515e-14	1.000000
rad14	3.17235e-14	1.000000	4.46125e-14	1.000000
rad4	3.10101e-14	1.000000	4.36094e-14	1.000000
rad1	9.48007e-15	1.000000	1.33318e-14	1.000000
rad5	7.51133e-15	1.000000	1.05631e-14	1.000000
rad27	1.40875e-15	1.000000	1.98111e-15	1.000000

1.00000000 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.22129e-11 (1.00)	5.87536e-11 (1.00)
Formation of rad11	1.42538e-11 (0.173)	5.21849e-12 (0.0888)
Formation of rad6	2.27549e-11 (0.277)	8.33083e-12 (0.142)
H-abstraction	4.52043e-11 (0.550)	4.52043e-11 (0.769)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.549844	0.549844	0.769388	0.769388
Phenyl+Allene	0.285349	0.835192	0.000000	0.769388
PhCH2CCH+H	0.0853725	0.920565	0.119460	0.888848
PhCHCCH2+H	0.0381839	0.958749	0.0534299	0.942278
C2H2+PhCH2	0.0128678	0.971617	0.0180057	0.960283
PhCCH+CH3	0.0101926	0.981809	0.0142623	0.974546
PAH7+H	0.00428274	0.986092	0.00599276	0.980539
Indene+H	0.00340695	0.989499	0.00476729	0.985306
PhcycC3H3_A+H	0.00292038	0.992419	0.00408643	0.989392
Ph+MeAc	0.00285191	0.995271	0.00399061	0.993383
rad19syn	0.00176005	0.997031	0.00246280	0.995846
rad54	0.000783510	0.997815	0.00109635	0.996942
rad39	0.000435199	0.998250	0.000608967	0.997551

rad19anti	0.000232598	0.998483	0.000325470	0.997876
PAH1+H	0.000210285	0.998693	0.000294248	0.998171
PAH9+H	0.000189946	0.998883	0.000265788	0.998436
rad38	0.000125074	0.999008	0.000175014	0.998611
PhCCCH3+H	0.000104499	0.999112	0.000146224	0.998758
rad56	0.000102496	0.999215	0.000143420	0.998901
rad50	9.64743e-05	0.999311	0.000134995	0.999036
rad55	8.51952e-05	0.999397	0.000119212	0.999155
rad53	6.86880e-05	0.999465	9.61137e-05	0.999251
rad70	6.67834e-05	0.999532	9.34486e-05	0.999345
PAH3+H	6.43467e-05	0.999596	9.00394e-05	0.999435
PAH10+CH3	5.80427e-05	0.999654	8.12183e-05	0.999516
rad51	5.49240e-05	0.999709	7.68544e-05	0.999593
rad46	4.80263e-05	0.999757	6.72021e-05	0.999660
rad67	4.40669e-05	0.999802	6.16619e-05	0.999722
rad35	4.33473e-05	0.999845	6.06552e-05	0.999783
PAH8+H	3.16111e-05	0.999876	4.42329e-05	0.999827
rad34	2.50786e-05	0.999902	3.50921e-05	0.999862
rad71	1.47744e-05	0.999916	2.06735e-05	0.999883
rad52	1.16170e-05	0.999928	1.62555e-05	0.999899
rad30	1.10774e-05	0.999939	1.55003e-05	0.999914
rad62	1.06705e-05	0.999950	1.49310e-05	0.999929
rad37	9.29424e-06	0.999959	1.30053e-05	0.999942
rad73	6.33748e-06	0.999965	8.86793e-06	0.999951
rad64	5.77649e-06	0.999971	8.08292e-06	0.999959
rad68syn	5.15348e-06	0.999976	7.21118e-06	0.999966
rad59	4.82486e-06	0.999981	6.75136e-06	0.999973
rad68anti	3.28964e-06	0.999984	4.60314e-06	0.999978
rad40syn	2.77792e-06	0.999987	3.88709e-06	0.999982
rad60syn	2.50929e-06	0.999990	3.51119e-06	0.999985
rad40anti	1.99952e-06	0.999992	2.79788e-06	0.999988
rad42	1.90464e-06	0.999994	2.66512e-06	0.999991
rad60anti	1.83422e-06	0.999995	2.56658e-06	0.999993
rad72	1.57366e-06	0.999997	2.20200e-06	0.999995
rad65	1.29208e-06	0.999998	1.80798e-06	0.999997
rad58	1.27682e-06	1.000000	1.78663e-06	0.999999
rad43	3.85029e-07	1.000000	5.38764e-07	1.000000
rad61	3.23853e-07	1.000000	4.53160e-07	1.000000
rad41	7.10639e-08	1.000000	9.94383e-08	1.000000
rad6	2.07587e-09	1.000000	2.90473e-09	1.000000
rad7	8.09795e-11	1.000000	1.13313e-10	1.000000
rad11	5.25593e-11	1.000000	7.35453e-11	1.000000
rad23	1.67451e-11	1.000000	2.34311e-11	1.000000
rad13	1.18635e-11	1.000000	1.66004e-11	1.000000
rad9	1.02352e-11	1.000000	1.43219e-11	1.000000
rad28	7.30005e-12	1.000000	1.02148e-11	1.000000
rad45	5.59044e-12	1.000000	7.82261e-12	1.000000
rad21	2.44431e-12	1.000000	3.42028e-12	1.000000
rad22	1.65916e-12	1.000000	2.32162e-12	1.000000
rad33	1.20478e-12	1.000000	1.68583e-12	1.000000
rad36	1.05539e-12	1.000000	1.47678e-12	1.000000
rad15	8.26680e-13	1.000000	1.15676e-12	1.000000
rad20	5.22366e-13	1.000000	7.30933e-13	1.000000
rad12	3.09375e-13	1.000000	4.32903e-13	1.000000
rad25	2.90027e-13	1.000000	4.05830e-13	1.000000
rad26	2.78040e-13	1.000000	3.89057e-13	1.000000
rad24	1.82404e-13	1.000000	2.55235e-13	1.000000
rad10	1.25818e-13	1.000000	1.76055e-13	1.000000
rad8	1.19196e-13	1.000000	1.66788e-13	1.000000
rad47	1.15641e-13	1.000000	1.61814e-13	1.000000
rad18	9.45157e-14	1.000000	1.32254e-13	1.000000
rad3	2.96818e-14	1.000000	4.15331e-14	1.000000
rad14	2.30194e-14	1.000000	3.22106e-14	1.000000
rad2	1.96834e-14	1.000000	2.75427e-14	1.000000
rad4	1.77532e-14	1.000000	2.48418e-14	1.000000
rad5	5.64149e-15	1.000000	7.89403e-15	1.000000
rad1	4.49402e-15	1.000000	6.28841e-15	1.000000
rad27	9.86134e-16	1.000000	1.37988e-15	1.000000

1.00000000 Pa, 3500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.05713e-10 (1.00)	7.59650e-11 (1.00)
Formation of rad11	1.77412e-11 (0.168)	6.37264e-12 (0.0839)
Formation of rad6	2.86822e-11 (0.271)	1.03027e-11 (0.136)
H-abstraction	5.92897e-11 (0.561)	5.92897e-11 (0.780)
species	PYtrue	Cumul
	PYeffective	Cumul

Benzene+2-propynyl	0.560855	0.560855	0.780487	0.780487
Phenyl+Allene	0.281404	0.842259	0.00000	0.780487
PhCH2CCH+H	0.0826656	0.924925	0.115037	0.895524
PhCHCCH2+H	0.0360585	0.960983	0.0501791	0.945703
C2H2+PhCH2	0.0122593	0.973242	0.0170600	0.962764
PhCCH+CH3	0.00927084	0.982513	0.0129013	0.975665
PAH7+H	0.00395025	0.986463	0.00549717	0.981162
PhcycC3H3_A+H	0.00334801	0.989811	0.00465910	0.985821
Ph+MeAc	0.00276398	0.992575	0.00384635	0.989667
Indene+H	0.00257590	0.995151	0.00358462	0.993252
rad19syn	0.00187235	0.997024	0.00260557	0.995858
rad54	0.000820548	0.997844	0.00114187	0.996999
rad39	0.000383055	0.998227	0.000533059	0.997533
PAH1+H	0.000234590	0.998462	0.000326455	0.997859
rad19anti	0.000198628	0.998661	0.000276411	0.998135
PAH9+H	0.000165224	0.998826	0.000229927	0.998365
rad56	0.000126873	0.998953	0.000176556	0.998542
rad38	0.000111229	0.999064	0.000154787	0.998697
rad50	9.85613e-05	0.999162	0.000137158	0.998834
PhCCCH3+H	9.42424e-05	0.999257	0.000131148	0.998965
rad55	9.15803e-05	0.999348	0.000127443	0.999092
rad53	8.16793e-05	0.999430	0.000113665	0.999206
rad70	7.02694e-05	0.999500	9.77871e-05	0.999304
PAH3+H	6.99220e-05	0.999570	9.73035e-05	0.999401
rad51	5.98507e-05	0.999630	8.32882e-05	0.999484
PAH10+CH3	5.76128e-05	0.999688	8.01742e-05	0.999565
rad67	4.43734e-05	0.999732	6.17501e-05	0.999626
rad46	4.41956e-05	0.999776	6.15029e-05	0.999688
PAH8+H	4.26935e-05	0.999819	5.94123e-05	0.999747
rad35	4.02805e-05	0.999859	5.60544e-05	0.999803
rad34	2.74951e-05	0.999887	3.82622e-05	0.999842
rad71	2.01282e-05	0.999907	2.80105e-05	0.999870
rad62	1.37116e-05	0.999920	1.90811e-05	0.999889
rad52	1.21501e-05	0.999933	1.69080e-05	0.999906
rad30	1.02915e-05	0.999943	1.43216e-05	0.999920
rad73	8.16310e-06	0.999951	1.13598e-05	0.999931
rad37	7.96636e-06	0.999959	1.10860e-05	0.999942
rad64	6.47621e-06	0.999966	9.01228e-06	0.999951
rad68syn	6.33612e-06	0.999972	8.81737e-06	0.999960
rad59	5.10458e-06	0.999977	7.10355e-06	0.999967
rad68anti	4.04059e-06	0.999981	5.62289e-06	0.999973
rad40syn	3.59895e-06	0.999985	5.00830e-06	0.999978
rad42	2.66321e-06	0.999987	3.70612e-06	0.999982
rad40anti	2.63316e-06	0.999990	3.66431e-06	0.999985
rad60syn	2.53258e-06	0.999992	3.52435e-06	0.999989
rad72	2.38442e-06	0.999995	3.31816e-06	0.999992
rad60anti	1.86455e-06	0.999997	2.59471e-06	0.999995
rad58	1.49815e-06	0.999998	2.08483e-06	0.999997
rad65	1.37925e-06	1.000000	1.91937e-06	0.999999
rad43	4.42452e-07	1.000000	6.15716e-07	0.999999
rad61	3.67258e-07	1.000000	5.11077e-07	1.000000
rad41	8.98821e-08	1.000000	1.25080e-07	1.000000
rad6	1.02515e-09	1.000000	1.42660e-09	1.000000
rad7	4.69732e-11	1.000000	6.53676e-11	1.000000
rad11	3.01288e-11	1.000000	4.19272e-11	1.000000
rad23	7.77305e-12	1.000000	1.08170e-11	1.000000
rad13	7.28937e-12	1.000000	1.01439e-11	1.000000
rad9	5.30646e-12	1.000000	7.38450e-12	1.000000
rad28	3.56059e-12	1.000000	4.95493e-12	1.000000
rad45	2.95720e-12	1.000000	4.11523e-12	1.000000
rad21	1.56278e-12	1.000000	2.17476e-12	1.000000
rad22	8.57436e-13	1.000000	1.19321e-12	1.000000
rad33	7.96135e-13	1.000000	1.10790e-12	1.000000
rad36	5.62273e-13	1.000000	7.82458e-13	1.000000
rad15	4.55960e-13	1.000000	6.34517e-13	1.000000
rad20	3.57698e-13	1.000000	4.97772e-13	1.000000
rad12	2.06001e-13	1.000000	2.86671e-13	1.000000
rad25	1.93650e-13	1.000000	2.69483e-13	1.000000
rad26	1.43525e-13	1.000000	1.99730e-13	1.000000
rad47	1.23125e-13	1.000000	1.71341e-13	1.000000
rad24	1.20836e-13	1.000000	1.68156e-13	1.000000
rad8	1.05364e-13	1.000000	1.46624e-13	1.000000
rad10	6.96072e-14	1.000000	9.68653e-14	1.000000
rad18	5.62835e-14	1.000000	7.83240e-14	1.000000
rad14	1.82348e-14	1.000000	2.53755e-14	1.000000
rad3	1.81353e-14	1.000000	2.52370e-14	1.000000
rad4	1.10240e-14	1.000000	1.53411e-14	1.000000
rad2	1.07549e-14	1.000000	1.49665e-14	1.000000
rad5	4.37138e-15	1.000000	6.08323e-15	1.000000
rad1	2.38055e-15	1.000000	3.31278e-15	1.000000

rad27 | 7.32060e-16 1.00000 | 1.01873e-15 1.00000

1.00000000 Pa, 3750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.33217e-10 (1.00)	9.62711e-11 (1.00)
Formation of rad11	2.17064e-11 (0.163)	7.68279e-12 (0.0798)
Formation of rad6	3.54800e-11 (0.266)	1.25578e-11 (0.130)
H-abstraction	7.60305e-11 (0.571)	7.60305e-11 (0.790)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789754	0.789754
Phenyl+Allene	0.277336	0.848063	0.00000	0.789754
PhCH2CCH+H	0.0801946	0.928257	0.110971	0.900725
PhCHCCH2+H	0.0343186	0.962576	0.0474891	0.948214
C2H2+PhCH2	0.0118838	0.974460	0.0164445	0.964658
PhCCH+CH3	0.00852836	0.982988	0.0118013	0.976459
PhcycC3H3_A+H	0.00372851	0.986717	0.00515939	0.981619
PAH7+H	0.00365085	0.990368	0.00505194	0.986671
Ph+MeAc	0.00270113	0.993069	0.00373773	0.990408
Indene+H	0.00199900	0.995068	0.00276616	0.993175
rad19syn	0.00195356	0.997021	0.00270328	0.995878
rad54	0.000841040	0.997862	0.00116381	0.997042
rad39	0.000340475	0.998203	0.000471138	0.997513
PAH1+H	0.000258935	0.998462	0.000358305	0.997871
rad19anti	0.000171610	0.998633	0.000237469	0.998109
rad56	0.000150421	0.998784	0.000208148	0.998317
PAH9+H	0.000142296	0.998926	0.000196904	0.998514
rad50	9.78214e-05	0.999024	0.000135362	0.998649
rad38	9.76287e-05	0.999121	0.000135095	0.998784
rad55	9.60227e-05	0.999217	0.000132873	0.998917
rad53	9.35446e-05	0.999311	0.000129444	0.999046
PhCCCH3+H	8.63448e-05	0.999397	0.000119481	0.999166
PAH3+H	7.46029e-05	0.999472	0.000103233	0.999269
rad70	7.27716e-05	0.999545	0.000100699	0.999370
rad51	6.27266e-05	0.999607	8.67994e-05	0.999457
PAH10+CH3	5.64592e-05	0.999664	7.81267e-05	0.999535
PAH8+H	5.49581e-05	0.999719	7.60493e-05	0.999611
rad67	4.41361e-05	0.999763	6.10741e-05	0.999672
rad46	4.00102e-05	0.999803	5.53649e-05	0.999727
rad35	3.73501e-05	0.999840	5.16839e-05	0.999779
rad34	2.95155e-05	0.999870	4.08426e-05	0.999820
rad71	2.56705e-05	0.999896	3.55219e-05	0.999855
rad62	1.78765e-05	0.999913	2.47369e-05	0.999880
rad52	1.22817e-05	0.999926	1.69950e-05	0.999897
rad73	9.90830e-06	0.999936	1.37108e-05	0.999911
rad30	9.58077e-06	0.999945	1.32576e-05	0.999924
rad68syn	7.51159e-06	0.999953	1.03943e-05	0.999934
rad64	7.08717e-06	0.999960	9.80700e-06	0.999944
rad37	6.84827e-06	0.999967	9.47639e-06	0.999954
rad59	5.31873e-06	0.999972	7.35989e-06	0.999961
rad68anti	4.78626e-06	0.999977	6.62308e-06	0.999968
rad40syn	4.46912e-06	0.999981	6.18422e-06	0.999974
rad42	3.72271e-06	0.999985	5.15138e-06	0.999979
rad72	3.33614e-06	0.999988	4.61643e-06	0.999984
rad40anti	3.31727e-06	0.999992	4.59032e-06	0.999988
rad60syn	2.53369e-06	0.999994	3.50604e-06	0.999992
rad60anti	1.87710e-06	0.999996	2.59748e-06	0.999994
rad58	1.70809e-06	0.999998	2.36361e-06	0.999997
rad65	1.42131e-06	0.999999	1.96676e-06	0.999999
rad43	5.13732e-07	1.000000	7.10883e-07	0.999999
rad61	4.03889e-07	1.00000	5.58888e-07	1.000000
rad41	1.13553e-07	1.00000	1.57130e-07	1.00000
rad6	5.49362e-10	1.00000	7.60190e-10	1.00000
rad7	2.87858e-11	1.00000	3.98330e-11	1.00000
rad11	1.84697e-11	1.00000	2.55577e-11	1.00000
rad13	4.72372e-12	1.00000	6.53655e-12	1.00000
rad23	3.84853e-12	1.00000	5.32547e-12	1.00000
rad9	2.92691e-12	1.00000	4.05018e-12	1.00000
rad28	1.87736e-12	1.00000	2.59784e-12	1.00000
rad45	1.63941e-12	1.00000	2.26857e-12	1.00000
rad21	1.04881e-12	1.00000	1.45131e-12	1.00000
rad33	5.44430e-13	1.00000	7.53364e-13	1.00000
rad22	4.77540e-13	1.00000	6.60803e-13	1.00000
rad36	3.13322e-13	1.00000	4.33565e-13	1.00000
rad15	2.65012e-13	1.00000	3.66715e-13	1.00000
rad20	2.60171e-13	1.00000	3.60017e-13	1.00000
rad12	1.42145e-13	1.00000	1.96696e-13	1.00000

rad25	1.34739e-13	1.00000	1.86448e-13	1.00000
rad47	1.26179e-13	1.00000	1.74602e-13	1.00000
rad8	9.29517e-14	1.00000	1.28624e-13	1.00000
rad24	8.25899e-14	1.00000	1.14285e-13	1.00000
rad26	7.85428e-14	1.00000	1.08685e-13	1.00000
rad10	4.06168e-14	1.00000	5.62042e-14	1.00000
rad18	3.55083e-14	1.00000	4.91353e-14	1.00000
rad14	1.56757e-14	1.00000	2.16915e-14	1.00000
rad3	1.17194e-14	1.00000	1.62169e-14	1.00000
rad4	7.30906e-15	1.00000	1.01140e-14	1.00000
rad2	6.33796e-15	1.00000	8.77028e-15	1.00000
rad5	3.48644e-15	1.00000	4.82443e-15	1.00000
rad1	1.37958e-15	1.00000	1.90902e-15	1.00000
rad27	5.74479e-16	1.00000	7.94942e-16	1.00000

1.00000000 Pa, 4000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.65008e-10 (1.00)	1.19912e-10 (1.00)
Formation of rad11	2.61707e-11 (0.159)	9.15556e-12 (0.0764)
Formation of rad6	4.31906e-11 (0.262)	1.51098e-11 (0.126)
H-abstraction	9.56470e-11 (0.580)	9.56470e-11 (0.798)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.579650	0.579650	0.797641	0.797641
Phenyl+Allene	0.273295	0.852945	0.00000	0.797641
PhCH2CCH+H	0.0779435	0.930888	0.107256	0.904897
PhCHCCH2+H	0.0328766	0.963765	0.0452408	0.950138
C2H2+PhCH2	0.0116508	0.975415	0.0160323	0.966170
PhCCH+CH3	0.00792125	0.983337	0.0109003	0.977070
PhcycC3H3_A+H	0.00405636	0.987393	0.00558187	0.982652
PAH7+H	0.00338058	0.990774	0.00465193	0.987304
Ph+MeAc	0.00265534	0.993429	0.00365394	0.990958
rad19syn	0.00200699	0.995436	0.00276178	0.993720
Indene+H	0.00158840	0.997024	0.00218576	0.995906
rad54	0.000847468	0.997872	0.00116618	0.997072
rad39	0.000304994	0.998177	0.000419695	0.997491
PAH1+H	0.000284127	0.998461	0.000390980	0.997882
rad56	0.000172242	0.998633	0.000237017	0.998119
rad19anti	0.000149971	0.998783	0.000206372	0.998326
PAH9+H	0.000121736	0.998905	0.000167518	0.998493
rad53	0.000103935	0.999009	0.000143023	0.998636
rad55	9.87033e-05	0.999108	0.000135823	0.998772
rad50	9.49261e-05	0.999203	0.000130625	0.998903
rad38	8.48536e-05	0.999287	0.000116765	0.999020
PhCCCH3+H	8.02193e-05	0.999368	0.000110388	0.999130
PAH3+H	7.84218e-05	0.999446	0.000107914	0.999238
rad70	7.43978e-05	0.999520	0.000102377	0.999340
PAH8+H	6.80299e-05	0.999588	9.36140e-05	0.999434
rad51	6.37407e-05	0.999652	8.77122e-05	0.999522
PAH10+CH3	5.48776e-05	0.999707	7.55158e-05	0.999597
rad67	4.35168e-05	0.999751	5.98821e-05	0.999657
rad46	3.57792e-05	0.999786	4.92350e-05	0.999706
rad35	3.46400e-05	0.999821	4.76673e-05	0.999754
rad34	3.11445e-05	0.999852	4.28572e-05	0.999797
rad71	3.10563e-05	0.999883	4.27358e-05	0.999839
rad62	2.32398e-05	0.999906	3.19798e-05	0.999871
rad52	1.20851e-05	0.999919	1.66300e-05	0.999888
rad73	1.14710e-05	0.999930	1.57849e-05	0.999904
rad30	8.93299e-06	0.999939	1.22925e-05	0.999916
rad68syn	8.64434e-06	0.999948	1.18952e-05	0.999928
rad64	7.61305e-06	0.999955	1.04761e-05	0.999939
rad37	5.91727e-06	0.999961	8.14263e-06	0.999947
rad68anti	5.50424e-06	0.999967	7.57424e-06	0.999954
rad59	5.47385e-06	0.999972	7.53243e-06	0.999962
rad40syn	5.36170e-06	0.999977	7.37810e-06	0.999969
rad42	5.12147e-06	0.999983	7.04750e-06	0.999976
rad72	4.37871e-06	0.999987	6.02543e-06	0.999982
rad40anti	4.03125e-06	0.999991	5.54731e-06	0.999988
rad60syn	2.51669e-06	0.999993	3.46315e-06	0.999991
rad58	1.90267e-06	0.999995	2.61822e-06	0.999994
rad60anti	1.87487e-06	0.999997	2.57996e-06	0.999996
rad65	1.42564e-06	0.999999	1.96179e-06	0.999998
rad43	6.01849e-07	0.999999	8.28191e-07	0.999999
rad61	4.34037e-07	1.000000	5.97267e-07	1.000000
rad41	1.43043e-07	1.000000	1.96838e-07	1.000000
rad6	3.15371e-10	1.000000	4.33975e-10	1.000000
rad7	1.84639e-11	1.000000	2.54076e-11	1.000000

rad11	1.19749e-11	1.000000	1.64784e-11	1.00000
rad13	3.20238e-12	1.000000	4.40671e-12	1.00000
rad23	2.01280e-12	1.000000	2.76977e-12	1.00000
rad9	1.70766e-12	1.000000	2.34988e-12	1.00000
rad28	1.05743e-12	1.000000	1.45510e-12	1.00000
rad45	9.45835e-13	1.000000	1.30154e-12	1.00000
rad21	7.33133e-13	1.000000	1.00885e-12	1.00000
rad33	3.83244e-13	1.000000	5.27372e-13	1.00000
rad22	2.83422e-13	1.000000	3.90009e-13	1.00000
rad20	1.98121e-13	1.000000	2.72628e-13	1.00000
rad36	1.81359e-13	1.000000	2.49563e-13	1.00000
rad15	1.61497e-13	1.000000	2.22231e-13	1.00000
rad47	1.25502e-13	1.000000	1.72700e-13	1.00000
rad12	1.01281e-13	1.000000	1.39371e-13	1.00000
rad25	9.70080e-14	1.000000	1.33491e-13	1.00000
rad8	8.17510e-14	1.000000	1.12495e-13	1.00000
rad24	5.80458e-14	1.000000	7.98754e-14	1.00000
rad26	4.52932e-14	1.000000	6.23270e-14	1.00000
rad10	2.48239e-14	1.000000	3.41594e-14	1.00000
rad18	2.34645e-14	1.000000	3.22890e-14	1.00000
rad14	1.43730e-14	1.000000	1.97783e-14	1.00000
rad3	7.93365e-15	1.000000	1.09173e-14	1.00000
rad4	5.11028e-15	1.000000	7.03212e-15	1.00000
rad2	3.96849e-15	1.000000	5.46094e-15	1.00000
rad5	2.85277e-15	1.000000	3.92563e-15	1.00000
rad1	8.60747e-16	1.000000	1.18445e-15	1.00000
rad27	4.75349e-16	1.000000	6.54114e-16	1.00000

0.100000000 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.56740e-51 (1.00)	1.56740e-51 (1.00)
Formation of rad11	1.56740e-51 (1.000)	1.56740e-51 (1.000)
Formation of rad6	3.73945e-60 (2.39e-09)	3.73945e-60 (2.39e-09)
H-abstraction	1.53631e-76 (9.80e-26)	1.53631e-76 (9.80e-26)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.940047	0.940047	0.940047	0.940047
Indene+H	0.0591132	0.999160	0.0591132	0.999160
C2H2+PhCH2	0.000485884	0.999646	0.000485884	0.999646
rad7	0.000144333	0.999790	0.000144333	0.999790
rad2	0.000111464	0.999902	0.000111464	0.999902
rad11	4.40248e-05	0.999946	4.40248e-05	0.999946
rad23	2.47191e-05	0.999971	2.47191e-05	0.999971
rad10	7.59498e-06	0.999978	7.59498e-06	0.999978
rad1	7.04483e-06	0.999985	7.04483e-06	0.999985
rad28	5.48573e-06	0.999991	5.48573e-06	0.999991
PhCHCCH2+H	2.84085e-06	0.999994	2.84085e-06	0.999994
rad3	2.78607e-06	0.999996	2.78607e-06	0.999996
rad4	1.40850e-06	0.999998	1.40850e-06	0.999998
PhCCH+CH3	1.04471e-06	0.999999	1.04471e-06	0.999999
rad45	6.01202e-07	0.999999	6.01202e-07	0.999999
rad13	4.57046e-07	1.000000	4.57046e-07	1.000000
rad26	2.25543e-07	1.000000	2.25543e-07	1.000000
rad9	1.51134e-07	1.000000	1.51134e-07	1.000000
PhCCCH3+H	8.13114e-08	1.000000	8.13114e-08	1.000000
rad36	3.74502e-08	1.000000	3.74502e-08	1.000000
rad30	2.57763e-08	1.000000	2.57763e-08	1.000000
rad22	2.32735e-08	1.000000	2.32735e-08	1.000000
rad15	4.60690e-09	1.000000	4.60690e-09	1.000000
PAH9+H	4.53145e-09	1.000000	4.53145e-09	1.000000
rad35	2.41136e-09	1.000000	2.41136e-09	1.000000
rad38	1.16551e-09	1.000000	1.16551e-09	1.000000
Phenyl+Allene	9.64928e-10	1.000000	0.000000	1.000000
Ph+MeAc	7.33682e-10	1.000000	7.33682e-10	1.000000
rad33	7.29193e-10	1.000000	7.29193e-10	1.000000
rad8	6.11856e-10	1.000000	6.11856e-10	1.000000
rad25	3.50906e-10	1.000000	3.50906e-10	1.000000
rad14	2.55191e-10	1.000000	2.55191e-10	1.000000
rad27	7.23941e-11	1.000000	7.23941e-11	1.000000
PAH7+H	1.23960e-11	1.000000	1.23960e-11	1.000000
rad46	7.19184e-12	1.000000	7.19184e-12	1.000000
rad39	1.11109e-12	1.000000	1.11109e-12	1.000000
rad12	2.97190e-13	1.000000	2.97190e-13	1.000000
rad60syn	2.03980e-13	1.000000	2.03980e-13	1.000000
rad18	2.74000e-14	1.000000	2.74000e-14	1.000000
rad20	2.55699e-14	1.000000	2.55699e-14	1.000000
rad21	1.68417e-14	1.000000	1.68417e-14	1.000000

rad24	4.77976e-15	1.00000	4.77976e-15	1.00000
rad31	2.65750e-15	1.00000	2.65750e-15	1.00000
PhCH2CCH+H	1.92657e-16	1.00000	1.92657e-16	1.00000
rad60anti	1.13805e-16	1.00000	1.13805e-16	1.00000
rad37	3.86108e-18	1.00000	3.86108e-18	1.00000
rad5	3.90579e-20	1.00000	3.90579e-20	1.00000
PAH3+H	8.62510e-24	1.00000	8.62510e-24	1.00000
rad59	4.22649e-24	1.00000	4.22649e-24	1.00000
rad50	6.97938e-25	1.00000	6.97938e-25	1.00000
Benzene+2-propynyl	9.80165e-26	1.00000	9.80165e-26	1.00000
rad19syn	4.06528e-29	1.00000	4.06528e-29	1.00000
rad54	1.22253e-32	1.00000	1.22253e-32	1.00000
PAH10+CH3	8.27450e-33	1.00000	8.27450e-33	1.00000
rad52	2.70870e-33	1.00000	2.70870e-33	1.00000
rad43	1.94318e-33	1.00000	1.94318e-33	1.00000
rad62	3.77839e-35	1.00000	3.77839e-35	1.00000
rad51	3.88648e-38	1.00000	3.88648e-38	1.00000
rad70	3.52026e-39	1.00000	3.52026e-39	1.00000
PhcycC3H3_A+H	2.30193e-39	1.00000	2.30193e-39	1.00000
rad55	1.12381e-39	1.00000	1.12381e-39	1.00000
rad65	5.79872e-42	1.00000	5.79872e-42	1.00000
rad58	1.06490e-42	1.00000	1.06490e-42	1.00000
PAH1+H	4.20934e-43	1.00000	4.20934e-43	1.00000
rad34	6.02242e-45	1.00000	6.02242e-45	1.00000
rad42	3.39400e-48	1.00000	3.39400e-48	1.00000
rad41	5.87735e-49	1.00000	5.87735e-49	1.00000
rad47	1.76900e-49	1.00000	1.76900e-49	1.00000

0.100000000 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.03204e-39 (1.00)	5.03204e-39 (1.00)
Formation of rad11	5.03203e-39 (1.000)	5.03203e-39 (1.000)
Formation of rad6	9.92181e-45 (1.97e-06)	9.92181e-45 (1.97e-06)
H-abstraction	3.33191e-55 (6.62e-17)	3.33191e-55 (6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.937769	0.937769	0.937769	0.937769
Indene+H	0.0612983	0.999067	0.0612983	0.999067
C2H2+PhCH2	0.000503824	0.999571	0.000503824	0.999571
rad2	0.000207874	0.999779	0.000207874	0.999779
rad7	0.000129244	0.999908	0.000129244	0.999908
rad11	3.79513e-05	0.999946	3.79513e-05	0.999946
rad10	1.36752e-05	0.999960	1.36752e-05	0.999960
rad1	1.31458e-05	0.999973	1.31458e-05	0.999973
rad28	1.11596e-05	0.999984	1.11596e-05	0.999984
PhCHCCH2+H	3.37711e-06	0.999988	3.37711e-06	0.999988
rad3	3.14473e-06	0.999991	3.14473e-06	0.999991
rad23	3.04950e-06	0.999994	3.04950e-06	0.999994
PhCCH+CH3	2.48546e-06	0.999996	2.48546e-06	0.999996
rad4	1.59006e-06	0.999998	1.59006e-06	0.999998
rad26	8.97535e-07	0.999999	8.97535e-07	0.999999
rad13	4.25046e-07	0.999999	4.25046e-07	0.999999
PhCCCH3+H	3.26089e-07	0.999999	3.26089e-07	0.999999
rad9	1.58490e-07	1.000000	1.58490e-07	1.000000
rad45	6.44763e-08	1.000000	6.44763e-08	1.000000
rad30	2.67725e-08	1.000000	2.67725e-08	1.000000
PAH9+H	5.05593e-09	1.000000	5.05593e-09	1.000000
rad15	4.79180e-09	1.000000	4.79180e-09	1.000000
rad36	4.01514e-09	1.000000	4.01514e-09	1.000000
Ph+MeAc	3.02633e-09	1.000000	3.02633e-09	1.000000
rad22	2.81793e-09	1.000000	2.81793e-09	1.000000
rad35	2.67573e-09	1.000000	2.67573e-09	1.000000
rad8	2.44005e-09	1.000000	2.44005e-09	1.000000
Phenyl+Allene	1.34615e-09	1.000000	0.000000	1.000000
rad38	1.29969e-09	1.000000	1.29969e-09	1.000000
rad33	7.19346e-10	1.000000	7.19346e-10	1.000000
rad25	2.98175e-10	1.000000	2.98175e-10	1.000000
rad14	2.73866e-10	1.000000	2.73866e-10	1.000000
rad27	1.27250e-10	1.000000	1.27250e-10	1.000000
PAH7+H	5.30960e-11	1.000000	5.30960e-11	1.000000
rad46	8.24294e-12	1.000000	8.24294e-12	1.000000
rad39	4.82888e-12	1.000000	4.82888e-12	1.000000
rad12	2.50725e-12	1.000000	2.50725e-12	1.000000
rad60syn	2.08600e-13	1.000000	2.08600e-13	1.000000
rad20	9.29706e-15	1.000000	9.29706e-15	1.000000
rad21	6.21351e-15	1.000000	6.21351e-15	1.000000
rad18	5.19826e-15	1.000000	5.19826e-15	1.000000

rad31	4.32305e-15	1.000000	4.32305e-15	1.000000
rad24	5.32253e-16	1.000000	5.32253e-16	1.000000
PhCH2CCH+H	4.55941e-16	1.000000	4.55941e-16	1.000000
rad60anti	2.37228e-16	1.000000	2.37228e-16	1.000000
Benzene+2-propynyl	6.62139e-17	1.000000	6.62139e-17	1.000000
rad37	2.41708e-17	1.000000	2.41708e-17	1.000000
rad5	1.27976e-19	1.000000	1.27976e-19	1.000000
PAH3+H	2.04967e-23	1.000000	2.04967e-23	1.000000
rad59	1.00459e-23	1.000000	1.00459e-23	1.000000
rad50	1.65222e-24	1.000000	1.65222e-24	1.000000
rad19syn	9.11673e-29	1.000000	9.11673e-29	1.000000
rad54	2.56264e-32	1.000000	2.56264e-32	1.000000
PAH10+CH3	1.77249e-32	1.000000	1.77249e-32	1.000000
rad52	6.15511e-33	1.000000	6.15511e-33	1.000000
rad43	4.06681e-33	1.000000	4.06681e-33	1.000000
rad62	7.44445e-35	1.000000	7.44445e-35	1.000000
rad51	7.70275e-38	1.000000	7.70275e-38	1.000000
rad70	5.58805e-39	1.000000	5.58805e-39	1.000000
PhcycC3H3_A+H	3.53508e-39	1.000000	3.53508e-39	1.000000
rad55	1.74814e-39	1.000000	1.74814e-39	1.000000
rad65	9.99311e-42	1.000000	9.99311e-42	1.000000
rad58	1.60172e-42	1.000000	1.60172e-42	1.000000
PAH1+H	4.74348e-43	1.000000	4.74348e-43	1.000000
rad34	6.16606e-45	1.000000	6.16606e-45	1.000000
rad42	2.63257e-48	1.000000	2.63257e-48	1.000000
rad41	4.34551e-49	1.000000	4.34551e-49	1.000000
rad47	1.15210e-49	1.000000	1.15210e-49	1.000000

0.100000000 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.35697e-33 (1.00)	9.35697e-33 (1.00)
Formation of rad11	9.35644e-33 (1.000)	9.35644e-33 (1.000)
Formation of rad6	5.26139e-37 (5.62e-05)	5.26139e-37 (5.62e-05)
H-abstraction	1.44763e-44 (1.55e-12)	1.44763e-44 (1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.935420	0.935420	0.935420	0.935420
Indene+H	0.0635372	0.998957	0.0635372	0.998957
C2H2+PhCH2	0.000525858	0.999483	0.000525858	0.999483
rad2	0.000287427	0.999770	0.000287427	0.999770
rad7	0.000121813	0.999892	0.000121813	0.999892
rad11	3.50807e-05	0.999927	3.50807e-05	0.999927
rad10	1.85105e-05	0.999946	1.85105e-05	0.999946
rad1	1.81990e-05	0.999964	1.81990e-05	0.999964
rad28	1.69464e-05	0.999981	1.69464e-05	0.999981
PhCCH+CH3	4.28967e-06	0.999985	4.28967e-06	0.999985
PhCHCCH2+H	4.22799e-06	0.999990	4.22799e-06	0.999990
rad3	3.50448e-06	0.999993	3.50448e-06	0.999993
rad26	1.92880e-06	0.999995	1.92880e-06	0.999995
rad4	1.77251e-06	0.999997	1.77251e-06	0.999997
rad23	1.34043e-06	0.999998	1.34043e-06	0.999998
PhCCCH3+H	7.26461e-07	0.999999	7.26461e-07	0.999999
rad13	4.11706e-07	0.999999	4.11706e-07	0.999999
rad9	1.69842e-07	0.999999	1.69842e-07	0.999999
rad30	2.80645e-08	0.999999	2.80645e-08	0.999999
rad45	2.63114e-08	0.999999	2.63114e-08	0.999999
Ph+MeAc	7.25827e-09	0.999999	7.25827e-09	0.999999
rad8	5.49248e-09	0.999999	5.49248e-09	0.999999
PAH9+H	5.43469e-09	0.999999	5.43469e-09	0.999999
rad15	5.04081e-09	0.999999	5.04081e-09	0.999999
rad35	2.86566e-09	0.999999	2.86566e-09	0.999999
Phenyl+Allene	2.24443e-09	0.999999	0.000000	0.999999
rad36	1.63750e-09	0.999999	1.63750e-09	0.999999
rad38	1.39924e-09	0.999999	1.39924e-09	0.999999
rad22	1.14869e-09	0.999999	1.14869e-09	0.999999
rad33	7.15718e-10	0.999999	7.15718e-10	0.999999
rad14	2.98220e-10	0.999999	2.98220e-10	0.999999
rad25	2.83084e-10	0.999999	2.83084e-10	0.999999
rad27	1.71636e-10	0.999999	1.71636e-10	0.999999
PAH7+H	1.30774e-10	0.999999	1.30774e-10	0.999999
rad39	1.22645e-11	0.999999	1.22645e-11	0.999999
rad46	9.07033e-12	0.999999	9.07033e-12	0.999999
rad12	8.82674e-12	0.999999	8.82674e-12	0.999999
Benzene+2-propynyl	1.54712e-12	0.999999	1.54712e-12	0.999999
rad60syn	2.19196e-13	0.999999	2.19196e-13	0.999999
rad20	6.42257e-15	0.999999	6.42257e-15	0.999999
rad31	5.74926e-15	0.999999	5.74926e-15	0.999999

rad21	4.34590e-15	0.999999	4.34590e-15	0.999999
rad18	2.31154e-15	0.999999	2.31154e-15	0.999999
rad60anti	1.02164e-15	0.999999	1.02164e-15	0.999999
PhCH2CCH+H	9.74459e-16	0.999999	9.74459e-16	0.999999
rad24	2.23530e-16	0.999999	2.23530e-16	0.999999
rad37	8.11967e-17	0.999999	8.11967e-17	0.999999
rad5	3.14831e-19	0.999999	3.14831e-19	0.999999
PAH3+H	4.46189e-23	0.999999	4.46189e-23	0.999999
rad59	2.18569e-23	0.999999	2.18569e-23	0.999999
rad50	3.59143e-24	0.999999	3.59143e-24	0.999999
rad19syn	1.96003e-28	0.999999	1.96003e-28	0.999999
rad54	5.27291e-32	0.999999	5.27291e-32	0.999999
PAH10+CH3	3.65283e-32	0.999999	3.65283e-32	0.999999
rad52	1.33193e-32	0.999999	1.33193e-32	0.999999
rad43	8.37378e-33	0.999999	8.37378e-33	0.999999
rad62	1.46812e-34	0.999999	1.46812e-34	0.999999
rad51	1.52246e-37	0.999999	1.52246e-37	0.999999
rad70	9.41874e-39	0.999999	9.41874e-39	0.999999
PhcycC3H3_A+H	5.82162e-39	0.999999	5.82162e-39	0.999999
rad55	2.90337e-39	0.999999	2.90337e-39	0.999999
rad65	1.78608e-41	0.999999	1.78608e-41	0.999999
rad58	2.59861e-42	0.999999	2.59861e-42	0.999999
PAH1+H	6.26794e-43	0.999999	6.26794e-43	0.999999
rad34	7.65912e-45	0.999999	7.65912e-45	0.999999
rad42	2.73214e-48	0.999999	2.73214e-48	0.999999
rad41	4.37836e-49	0.999999	4.37836e-49	0.999999
rad47	1.14419e-49	0.999999	1.14419e-49	0.999999

0.100000000 Pa, 50.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	5.52690e-29	(1.00)	5.52690e-29	(1.00)
Formation of rad11	5.52459e-29	(1.000)	5.52459e-29	(1.000)
Formation of rad6	2.30840e-32	(0.000418)	2.30840e-32	(0.000418)
H-abstraction	3.35357e-38	(6.07e-10)	3.35357e-38	(6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul

rad6	0.932956	0.932956	0.932956	0.932956
Indene+H	0.0658938	0.998850	0.0658938	0.998850
C2H2+PhCH2	0.000552146	0.999402	0.000552146	0.999402
rad2	0.000355454	0.999757	0.000355454	0.999757
rad7	0.000117017	0.999874	0.000117017	0.999874
rad11	3.32745e-05	0.999908	3.32745e-05	0.999908
rad28	2.31018e-05	0.999931	2.31018e-05	0.999931
rad10	2.25565e-05	0.999953	2.25565e-05	0.999953
rad1	2.25458e-05	0.999976	2.25458e-05	0.999976
PhCCH+CH3	6.58435e-06	0.999982	6.58435e-06	0.999982
PhCHCCH2+H	5.43204e-06	0.999988	5.43204e-06	0.999988
rad3	3.82672e-06	0.999992	3.82672e-06	0.999992
rad26	3.30659e-06	0.999995	3.30659e-06	0.999995
rad4	1.93636e-06	0.999997	1.93636e-06	0.999997
PhCCCH3+H	1.30926e-06	0.999998	1.30926e-06	0.999998
rad23	8.26738e-07	0.999999	8.26738e-07	0.999999
rad13	4.04085e-07	1.000000	4.04085e-07	1.000000
rad9	1.85339e-07	1.000000	1.85339e-07	1.000000
rad30	2.96597e-08	1.000000	2.96597e-08	1.000000
rad45	1.54450e-08	1.000000	1.54450e-08	1.000000
Ph+MeAc	1.45145e-08	1.000000	1.45145e-08	1.000000
rad8	1.00599e-08	1.000000	1.00599e-08	1.000000
PAH9+H	5.82823e-09	1.000000	5.82823e-09	1.000000
rad15	5.35523e-09	1.000000	5.35523e-09	1.000000
Phenyl+Allene	3.81302e-09	1.000000	0.000000	1.000000
rad35	3.06162e-09	1.000000	3.06162e-09	1.000000
rad38	1.50435e-09	1.000000	1.50435e-09	1.000000
rad36	9.60471e-10	1.000000	9.60471e-10	1.000000
rad33	7.13823e-10	1.000000	7.13823e-10	1.000000
rad22	6.63752e-10	1.000000	6.63752e-10	1.000000
Benzene+2-propynyl	6.06773e-10	1.000000	6.06773e-10	1.000000
rad14	3.21612e-10	1.000000	3.21612e-10	1.000000
rad25	2.75517e-10	1.000000	2.75517e-10	1.000000
PAH7+H	2.66210e-10	1.000000	2.66210e-10	1.000000
rad27	2.09420e-10	1.000000	2.09420e-10	1.000000
rad39	2.60612e-11	1.000000	2.60612e-11	1.000000
rad12	2.29119e-11	1.000000	2.29119e-11	1.000000
rad46	9.99219e-12	1.000000	9.99219e-12	1.000000
rad60syn	2.45036e-13	1.000000	2.45036e-13	1.000000
rad31	7.01799e-15	1.000000	7.01799e-15	1.000000
rad20	5.28027e-15	1.000000	5.28027e-15	1.000000

rad60anti	4.17219e-15	1.000000	4.17219e-15	1.000000
rad21	3.60699e-15	1.000000	3.60699e-15	1.000000
PhCH2CCH+H	2.28034e-15	1.000000	2.28034e-15	1.000000
rad18	1.38822e-15	1.000000	1.38822e-15	1.000000
rad37	2.48325e-16	1.000000	2.48325e-16	1.000000
rad24	1.34384e-16	1.000000	1.34384e-16	1.000000
rad5	8.06835e-19	1.000000	8.06835e-19	1.000000
PAH3+H	1.07641e-22	1.000000	1.07641e-22	1.000000
rad59	5.26684e-23	1.000000	5.26684e-23	1.000000
rad50	8.61692e-24	1.000000	8.61692e-24	1.000000
rad19syn	4.83902e-28	1.000000	4.83902e-28	1.000000
rad54	1.26914e-31	1.000000	1.26914e-31	1.000000
PAH10+CH3	8.80993e-32	1.000000	8.80993e-32	1.000000
rad52	3.29782e-32	1.000000	3.29782e-32	1.000000
rad43	2.02040e-32	1.000000	2.02040e-32	1.000000
rad62	3.43668e-34	1.000000	3.43668e-34	1.000000
rad51	3.56632e-37	1.000000	3.56632e-37	1.000000
rad70	1.97005e-38	1.000000	1.97005e-38	1.000000
PhcycC3H3_A+H	1.19786e-38	1.000000	1.19786e-38	1.000000
rad55	6.00830e-39	1.000000	6.00830e-39	1.000000
rad65	3.89614e-41	1.000000	3.89614e-41	1.000000
rad58	5.28980e-42	1.000000	5.28980e-42	1.000000
PAH1+H	1.10327e-42	1.000000	1.10327e-42	1.000000
rad34	1.29263e-44	1.000000	1.29263e-44	1.000000
rad42	4.09096e-48	1.000000	4.09096e-48	1.000000
rad41	6.43486e-49	1.000000	6.43486e-49	1.000000
rad47	1.65484e-49	1.000000	1.65484e-49	1.000000

0.100000000 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.83429e-26 (1.00)	1.83429e-26 (1.00)
Formation of rad11	1.83139e-26 (0.998)	1.83139e-26 (0.998)
Formation of rad6	2.90471e-29 (0.00158)	2.90471e-29 (0.00158)
H-abstraction	5.71259e-34 (3.11e-08)	5.71259e-34 (3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.930380	0.930380	0.930380	0.930380
Indene+H	0.0683643	0.998744	0.0683643	0.998744
C2H2+PhCH2	0.000582089	0.999326	0.000582089	0.999326
rad7	0.000414528	0.999741	0.000414528	0.999741
rad7	0.000113516	0.999854	0.000113516	0.999854
rad11	3.19821e-05	0.999886	3.19821e-05	0.999886
rad28	2.97935e-05	0.999916	2.97935e-05	0.999916
rad1	2.63496e-05	0.999943	2.63496e-05	0.999943
rad10	2.60150e-05	0.999969	2.60150e-05	0.999969
PhCCH+CH3	9.52080e-06	0.999978	9.52080e-06	0.999978
PhCHCCH2+H	7.05074e-06	0.999985	7.05074e-06	0.999985
rad26	5.04008e-06	0.999990	5.04008e-06	0.999990
rad3	4.11027e-06	0.999994	4.11027e-06	0.999994
PhCCCH3+H	2.12013e-06	0.999996	2.12013e-06	0.999996
rad4	2.08097e-06	0.999998	2.08097e-06	0.999998
rad23	5.80342e-07	0.999999	5.80342e-07	0.999999
rad13	3.99044e-07	0.999999	3.99044e-07	0.999999
rad9	2.04775e-07	1.000000	2.04775e-07	1.000000
rad30	3.15184e-08	1.000000	3.15184e-08	1.000000
Benzene+2-propynyl	3.11432e-08	1.000000	3.11432e-08	1.000000
Ph+MeAc	2.66353e-08	1.000000	2.66353e-08	1.000000
rad8	1.66166e-08	1.000000	1.66166e-08	1.000000
rad45	1.04533e-08	1.000000	1.04533e-08	1.000000
PAH9+H	6.26073e-09	1.000000	6.26073e-09	1.000000
Phenyl+Allene	6.24462e-09	1.000000	0.000000	1.000000
rad15	5.72741e-09	1.000000	5.72741e-09	1.000000
rad35	3.27548e-09	1.000000	3.27548e-09	1.000000
rad38	1.62104e-09	1.000000	1.62104e-09	1.000000
rad33	7.12709e-10	1.000000	7.12709e-10	1.000000
rad36	6.49516e-10	1.000000	6.49516e-10	1.000000
PAH7+H	4.96059e-10	1.000000	4.96059e-10	1.000000
rad22	4.43806e-10	1.000000	4.43806e-10	1.000000
rad14	3.43020e-10	1.000000	3.43020e-10	1.000000
rad25	2.70863e-10	1.000000	2.70863e-10	1.000000
rad27	2.42259e-10	1.000000	2.42259e-10	1.000000
rad12	5.13224e-11	1.000000	5.13224e-11	1.000000
rad39	5.11733e-11	1.000000	5.11733e-11	1.000000
rad46	1.10641e-11	1.000000	1.10641e-11	1.000000
rad60syn	2.88876e-13	1.000000	2.88876e-13	1.000000
rad60anti	1.16681e-14	1.000000	1.16681e-14	1.000000
rad31	8.17409e-15	1.000000	8.17409e-15	1.000000

PhCH2CCH+H	6.67553e-15	1.000000	6.67553e-15	1.000000
rad20	4.70388e-15	1.000000	4.70388e-15	1.000000
rad21	3.23803e-15	1.000000	3.23803e-15	1.000000
rad18	9.71856e-16	1.000000	9.71856e-16	1.000000
rad37	8.39180e-16	1.000000	8.39180e-16	1.000000
rad24	9.28638e-17	1.000000	9.28638e-17	1.000000
rad5	2.48742e-18	1.000000	2.48742e-18	1.000000
PAH3+H	3.23850e-22	1.000000	3.23850e-22	1.000000
rad59	1.58211e-22	1.000000	1.58211e-22	1.000000
rad50	2.57210e-23	1.000000	2.57210e-23	1.000000
rad19syn	1.52801e-27	1.000000	1.52801e-27	1.000000
rad54	3.96046e-31	1.000000	3.96046e-31	1.000000
PAH10+CH3	2.75823e-31	1.000000	2.75823e-31	1.000000
rad52	1.04186e-31	1.000000	1.04186e-31	1.000000
rad43	6.32791e-32	1.000000	6.32791e-32	1.000000
rad62	1.05435e-33	1.000000	1.05435e-33	1.000000
rad51	1.09379e-36	1.000000	1.09379e-36	1.000000
rad70	5.58012e-38	1.000000	5.58012e-38	1.000000
PhcycC3H3_A+H	3.35382e-38	1.000000	3.35382e-38	1.000000
rad55	1.68882e-38	1.000000	1.68882e-38	1.000000
rad65	1.13715e-40	1.000000	1.13715e-40	1.000000
rad58	1.46971e-41	1.000000	1.46971e-41	1.000000
PAH1+H	2.76571e-42	1.000000	2.76571e-42	1.000000
rad34	3.14818e-44	1.000000	3.14818e-44	1.000000
rad42	9.19643e-48	1.000000	9.19643e-48	1.000000
rad41	1.43034e-48	1.000000	1.43034e-48	1.000000
rad47	3.55685e-49	1.000000	3.55685e-49	1.000000

0.100000000 Pa, 70.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.17336e-24	(1.00)	1.17336e-24	(1.00)
Formation of rad11	1.16857e-24	(0.996)	1.16857e-24	(0.996)
Formation of rad6	4.79505e-27	(0.00409)	4.79505e-27	(0.00409)
H-abstraction	5.89821e-31	(5.03e-07)	5.89821e-31	(5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.927694	0.927694	0.927694	0.927694
Indene+H	0.0709458	0.998639	0.0709458	0.998639
C2H2+PhCH2	0.000615461	0.999255	0.000615461	0.999255
rad2	0.000466150	0.999721	0.000466150	0.999721
rad7	0.000110769	0.999832	0.000110769	0.999832
rad28	3.71761e-05	0.999869	3.71761e-05	0.999869
rad11	3.09857e-05	0.999900	3.09857e-05	0.999900
rad1	2.97049e-05	0.999930	2.97049e-05	0.999930
rad10	2.89987e-05	0.999959	2.89987e-05	0.999959
PhCCH+CH3	1.33049e-05	0.999972	1.33049e-05	0.999972
PhCHCCH2+H	9.18359e-06	0.999981	9.18359e-06	0.999981
rad26	7.14831e-06	0.999988	7.14831e-06	0.999988
rad3	4.35806e-06	0.999993	4.35806e-06	0.999993
PhCCCH3+H	3.22679e-06	0.999996	3.22679e-06	0.999996
rad4	2.20784e-06	0.999998	2.20784e-06	0.999998
Benzene+2-propynyl	5.02676e-07	0.999998	5.02676e-07	0.999998
rad23	4.36547e-07	0.999999	4.36547e-07	0.999999
rad13	3.95400e-07	0.999999	3.95400e-07	0.999999
rad9	2.28350e-07	1.000000	2.28350e-07	1.000000
Ph+MeAc	4.67286e-08	1.000000	4.67286e-08	1.000000
rad30	3.36295e-08	1.000000	3.36295e-08	1.000000
rad8	2.58734e-08	1.000000	2.58734e-08	1.000000
Phenyl+Allene	9.84668e-09	1.000000	0.000000	1.000000
rad45	7.64152e-09	1.000000	7.64152e-09	1.000000
PAH9+H	6.74132e-09	1.000000	6.74132e-09	1.000000
rad15	6.15588e-09	1.000000	6.15588e-09	1.000000
rad35	3.51148e-09	1.000000	3.51148e-09	1.000000
rad38	1.75172e-09	1.000000	1.75172e-09	1.000000
PAH7+H	8.86149e-10	1.000000	8.86149e-10	1.000000
rad33	7.12025e-10	1.000000	7.12025e-10	1.000000
rad36	4.74435e-10	1.000000	4.74435e-10	1.000000
rad14	3.62292e-10	1.000000	3.62292e-10	1.000000
rad22	3.21728e-10	1.000000	3.21728e-10	1.000000
rad27	2.71061e-10	1.000000	2.71061e-10	1.000000
rad25	2.67669e-10	1.000000	2.67669e-10	1.000000
rad12	1.06132e-10	1.000000	1.06132e-10	1.000000
rad39	9.71225e-11	1.000000	9.71225e-11	1.000000
rad46	1.23187e-11	1.000000	1.23187e-11	1.000000
rad60syn	3.51777e-13	1.000000	3.51777e-13	1.000000
PhCH2CCH+H	2.80515e-14	1.000000	2.80515e-14	1.000000
rad60anti	2.50003e-14	1.000000	2.50003e-14	1.000000

rad31	9.24471e-15	1.000000	9.24471e-15	1.000000
rad20	4.38646e-15	1.000000	4.38646e-15	1.000000
rad37	3.47868e-15	1.000000	3.47868e-15	1.000000
rad21	3.03925e-15	1.000000	3.03925e-15	1.000000
rad18	7.46061e-16	1.000000	7.46061e-16	1.000000
rad24	6.91647e-17	1.000000	6.91647e-17	1.000000
rad5	1.02334e-17	1.000000	1.02334e-17	1.000000
PAH3+H	1.36552e-21	1.000000	1.36552e-21	1.000000
rad59	6.65968e-22	1.000000	6.65968e-22	1.000000
rad50	1.07663e-22	1.000000	1.07663e-22	1.000000
rad19syn	6.87187e-27	1.000000	6.87187e-27	1.000000
rad54	1.77812e-30	1.000000	1.77812e-30	1.000000
PAH10+CH3	1.24396e-30	1.000000	1.24396e-30	1.000000
rad52	4.67991e-31	1.000000	4.67991e-31	1.000000
rad43	2.85472e-31	1.000000	2.85472e-31	1.000000
rad62	4.69234e-33	1.000000	4.69234e-33	1.000000
rad51	4.86246e-36	1.000000	4.86246e-36	1.000000
rad70	2.34974e-37	1.000000	2.34974e-37	1.000000
PhcycC3H3_A+H	1.40091e-37	1.000000	1.40091e-37	1.000000
rad55	7.07316e-38	1.000000	7.07316e-38	1.000000
rad65	4.89001e-40	1.000000	4.89001e-40	1.000000
rad58	6.10597e-41	1.000000	6.10597e-41	1.000000
PAH1+H	1.06955e-41	1.000000	1.06955e-41	1.000000
rad34	1.19386e-43	1.000000	1.19386e-43	1.000000
rad42	3.30926e-47	1.000000	3.30926e-47	1.000000
rad41	5.11770e-48	1.000000	5.11770e-48	1.000000
rad47	1.20830e-48	1.000000	1.20830e-48	1.000000

0.100000000 Pa, 80.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.68112e-23	(1.00)	2.68112e-23	(1.00)
Formation of rad11	2.65890e-23	(0.992)	2.65890e-23	(0.992)
Formation of rad6	2.22189e-25	(0.00829)	2.22189e-25	(0.00829)
H-abstraction	1.05871e-28	(3.95e-06)	1.05871e-28	(3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.924873	0.924873	0.924873	0.924873
Indene+H	0.0736573	0.998531	0.0736573	0.998531
C2H2+PhCH2	0.000652578	0.999183	0.000652578	0.999183
rad2	0.000511352	0.999695	0.000511352	0.999695
rad7	0.000108505	0.999803	0.000108505	0.999803
rad28	4.54234e-05	0.999849	4.54234e-05	0.999849
rad1	3.26763e-05	0.999881	3.26763e-05	0.999881
rad10	3.15819e-05	0.999913	3.15819e-05	0.999913
rad11	3.01776e-05	0.999943	3.01776e-05	0.999943
PhCCH+CH3	1.82301e-05	0.999961	1.82301e-05	0.999961
PhCHCCH2+H	1.19822e-05	0.999973	1.19822e-05	0.999973
rad26	9.65651e-06	0.999983	9.65651e-06	0.999983
PhCCCH3+H	4.72793e-06	0.999988	4.72793e-06	0.999988
rad3	4.57352e-06	0.999992	4.57352e-06	0.999992
Benzene+2-propynyl	3.94877e-06	0.999996	3.94877e-06	0.999996
rad4	2.31865e-06	0.999998	2.31865e-06	0.999998
rad13	3.92590e-07	0.999999	3.92590e-07	0.999999
rad23	3.43302e-07	0.999999	3.43302e-07	0.999999
rad9	2.56812e-07	0.999999	2.56812e-07	0.999999
Ph+MeAc	8.00196e-08	0.999999	8.00196e-08	0.999999
rad8	3.88887e-08	1.000000	3.88887e-08	1.000000
rad30	3.60203e-08	1.000000	3.60203e-08	1.000000
Phenyl+Allene	1.51157e-08	1.000000	0.000000	1.000000
PAH9+H	7.28174e-09	1.000000	7.28174e-09	1.000000
rad15	6.64739e-09	1.000000	6.64739e-09	1.000000
rad45	5.87094e-09	1.000000	5.87094e-09	1.000000
rad35	3.77495e-09	1.000000	3.77495e-09	1.000000
rad38	1.89971e-09	1.000000	1.89971e-09	1.000000
PAH7+H	1.55655e-09	1.000000	1.55655e-09	1.000000
rad33	7.11586e-10	1.000000	7.11586e-10	1.000000
rad14	3.79491e-10	1.000000	3.79491e-10	1.000000
rad36	3.64257e-10	1.000000	3.64257e-10	1.000000
rad27	2.96424e-10	1.000000	2.96424e-10	1.000000
rad25	2.65311e-10	1.000000	2.65311e-10	1.000000
rad22	2.45754e-10	1.000000	2.45754e-10	1.000000
rad12	2.09524e-10	1.000000	2.09524e-10	1.000000
rad39	1.82399e-10	1.000000	1.82399e-10	1.000000
rad46	1.38043e-11	1.000000	1.38043e-11	1.000000
rad60syn	4.37263e-13	1.000000	4.37263e-13	1.000000
PhCH2CCH+H	1.52338e-13	1.000000	1.52338e-13	1.000000
rad60anti	4.55937e-14	1.000000	4.55937e-14	1.000000

rad37	1.70102e-14	1.000000	1.70102e-14	1.000000
rad31	1.02490e-14	1.000000	1.02490e-14	1.000000
rad20	4.21178e-15	1.000000	4.21178e-15	1.000000
rad21	2.93495e-15	1.000000	2.93495e-15	1.000000
rad18	6.08774e-16	1.000000	6.08774e-16	1.000000
rad5	5.48717e-17	1.000000	5.48717e-17	1.000000
rad24	5.40569e-17	1.000000	5.40569e-17	1.000000
PAH3+H	8.55964e-21	1.000000	8.55964e-21	1.000000
rad59	4.15949e-21	1.000000	4.15949e-21	1.000000
rad50	6.57873e-22	1.000000	6.57873e-22	1.000000
rad19syn	4.77375e-26	1.000000	4.77375e-26	1.000000
rad54	1.24237e-29	1.000000	1.24237e-29	1.000000
PAH10+CH3	8.74089e-30	1.000000	8.74089e-30	1.000000
rad52	3.24293e-30	1.000000	3.24293e-30	1.000000
rad43	2.00668e-30	1.000000	2.00668e-30	1.000000
rad62	3.27143e-32	1.000000	3.27143e-32	1.000000
rad51	3.38357e-35	1.000000	3.38357e-35	1.000000
rad70	1.57946e-36	1.000000	1.57946e-36	1.000000
PhcycC3H3_A+H	9.36595e-37	1.000000	9.36595e-37	1.000000
rad55	4.73718e-37	1.000000	4.73718e-37	1.000000
rad65	3.33361e-39	1.000000	3.33361e-39	1.000000
rad58	4.06736e-40	1.000000	4.06736e-40	1.000000
PAH1+H	6.79010e-41	1.000000	6.79010e-41	1.000000
rad34	7.48344e-43	1.000000	7.48344e-43	1.000000
rad42	2.00896e-46	1.000000	2.00896e-46	1.000000
rad41	3.10458e-47	1.000000	3.10458e-47	1.000000
rad47	6.84357e-48	1.000000	6.84357e-48	1.000000

0.100000000 Pa, 90.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.08379e-22	(1.00)	3.08379e-22	(1.00)
Formation of rad11	3.03962e-22	(0.986)	3.03962e-22	(0.986)
Formation of rad6	4.41076e-24	(0.0143)	4.41076e-24	(0.0143)
H-abstraction	5.92916e-27	(1.92e-05)	5.92916e-27	(1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.921865	0.921865	0.921865	0.921865
Indene+H	0.0765427	0.998408	0.0765427	0.998408
C2H2+PhCH2	0.000694262	0.999102	0.000694262	0.999102
rad2	0.000550867	0.999653	0.000550867	0.999653
rad7	0.000106567	0.999760	0.000106567	0.999760
rad28	5.47275e-05	0.999814	5.47275e-05	0.999814
rad1	3.53097e-05	0.999850	3.53097e-05	0.999850
rad10	3.38163e-05	0.999884	3.38163e-05	0.999884
rad11	2.94968e-05	0.999913	2.94968e-05	0.999913
PhCCH+CH3	2.47038e-05	0.999938	2.47038e-05	0.999938
Benzene+2-propynyl	1.92269e-05	0.999957	1.92269e-05	0.999957
PhCHCCH2+H	1.56614e-05	0.999973	1.56614e-05	0.999973
rad26	1.25886e-05	0.999985	1.25886e-05	0.999985
PhCCCH3+H	6.76183e-06	0.999992	6.76183e-06	0.999992
rad3	4.75954e-06	0.999997	4.75954e-06	0.999997
rad4	2.41489e-06	0.999999	2.41489e-06	0.999999
rad13	3.90297e-07	1.000000	3.90297e-07	1.000000
rad9	2.91495e-07	1.000000	2.91495e-07	1.000000
rad23	2.78628e-07	1.000000	2.78628e-07	1.000000
Ph+MeAc	1.35015e-07	1.000000	1.35015e-07	1.000000
rad8	5.71855e-08	1.000000	5.71855e-08	1.000000
rad30	3.87533e-08	1.000000	3.87533e-08	1.000000
Phenyl+Allene	2.28249e-08	1.000000	0.000000	1.000000
PAH9+H	7.89967e-09	1.000000	7.89967e-09	1.000000
rad15	7.21640e-09	1.000000	7.21640e-09	1.000000
rad45	4.67290e-09	1.000000	4.67290e-09	1.000000
rad35	4.07393e-09	1.000000	4.07393e-09	1.000000
PAH7+H	2.72327e-09	1.000000	2.72327e-09	1.000000
rad38	2.07009e-09	1.000000	2.07009e-09	1.000000
rad33	7.11265e-10	1.000000	7.11265e-10	1.000000
rad12	4.00903e-10	1.000000	4.00903e-10	1.000000
rad14	3.94717e-10	1.000000	3.94717e-10	1.000000
rad39	3.42231e-10	1.000000	3.42231e-10	1.000000
rad27	3.18762e-10	1.000000	3.18762e-10	1.000000
rad36	2.89765e-10	1.000000	2.89765e-10	1.000000
rad25	2.63464e-10	1.000000	2.63464e-10	1.000000
rad22	1.94798e-10	1.000000	1.94798e-10	1.000000
rad46	1.55949e-11	1.000000	1.55949e-11	1.000000
PhCH2CCH+H	8.05240e-13	1.000000	8.05240e-13	1.000000
rad60syn	5.52941e-13	1.000000	5.52941e-13	1.000000
rad37	8.45395e-14	1.000000	8.45395e-14	1.000000

rad60anti	7.55980e-14	1.00000	7.55980e-14	1.00000
rad31	1.12013e-14	1.00000	1.12013e-14	1.00000
rad20	4.12631e-15	1.00000	4.12631e-15	1.00000
rad21	2.89023e-15	1.00000	2.89023e-15	1.00000
rad18	5.18650e-16	1.00000	5.18650e-16	1.00000
rad5	3.23304e-16	1.00000	3.23304e-16	1.00000
rad24	4.37186e-17	1.00000	4.37186e-17	1.00000
PAH3+H	7.05048e-20	1.00000	7.05048e-20	1.00000
rad59	3.37191e-20	1.00000	3.37191e-20	1.00000
rad50	4.91993e-21	1.00000	4.91993e-21	1.00000
rad19syn	6.06691e-25	1.00000	6.06691e-25	1.00000
rad54	1.62877e-28	1.00000	1.62877e-28	1.00000
PAH10+CH3	1.14795e-28	1.00000	1.14795e-28	1.00000
rad52	4.07953e-29	1.00000	4.07953e-29	1.00000
rad43	2.64309e-29	1.00000	2.64309e-29	1.00000
rad62	4.27957e-31	1.00000	4.27957e-31	1.00000
rad51	4.41540e-34	1.00000	4.41540e-34	1.00000
rad70	2.02233e-35	1.00000	2.02233e-35	1.00000
PhcycC3H3_A+H	1.19524e-35	1.00000	1.19524e-35	1.00000
rad55	6.05189e-36	1.00000	6.05189e-36	1.00000
rad65	4.30533e-38	1.00000	4.30533e-38	1.00000
rad58	5.17890e-39	1.00000	5.17890e-39	1.00000
PAH1+H	8.39260e-40	1.00000	8.39260e-40	1.00000
rad34	9.18043e-42	1.00000	9.18043e-42	1.00000
rad42	2.42562e-45	1.00000	2.42562e-45	1.00000
rad41	3.76710e-46	1.00000	3.76710e-46	1.00000
rad47	7.62721e-47	1.00000	7.62721e-47	1.00000

0.100000000 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14497e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.918579	0.918579	0.918579	0.918579
Indene+H	0.0796657	0.998245	0.0796657	0.998245
C2H2+PhCH2	0.000741747	0.998987	0.000741747	0.998987
rad2	0.000585211	0.999572	0.000585211	0.999572
rad7	0.000104853	0.999677	0.000104853	0.999677
Benzene+2-propynyl	6.70630e-05	0.999744	6.70630e-05	0.999744
rad28	6.52834e-05	0.999809	6.52835e-05	0.999809
rad1	3.76375e-05	0.999847	3.76375e-05	0.999847
rad10	3.57380e-05	0.999883	3.57380e-05	0.999883
PhCCH+CH3	3.32721e-05	0.999916	3.32721e-05	0.999916
rad11	2.89046e-05	0.999945	2.89046e-05	0.999945
PhCHCCH2+H	2.05099e-05	0.999965	2.05099e-05	0.999965
rad26	1.59567e-05	0.999981	1.59567e-05	0.999981
PhCCCH3+H	9.51458e-06	0.999991	9.51458e-06	0.999991
rad3	4.91828e-06	0.999996	4.91828e-06	0.999996
rad4	2.49763e-06	0.999998	2.49763e-06	0.999998
rad13	3.88313e-07	0.999999	3.88313e-07	0.999999
rad9	3.34369e-07	0.999999	3.34369e-07	0.999999
rad23	2.31574e-07	0.999999	2.31574e-07	0.999999
Ph+MeAc	2.25104e-07	0.999999	2.25104e-07	0.999999
rad8	8.28777e-08	0.999999	8.28777e-08	0.999999
rad30	4.19220e-08	0.999999	4.19220e-08	0.999999
Phenyl+Allene	3.41501e-08	0.999999	0.00000	0.999999
PAH9+H	8.61931e-09	1.000000	8.61931e-09	0.999999
rad15	7.88450e-09	1.000000	7.88450e-09	0.999999
PAH7+H	4.76589e-09	1.000000	4.76589e-09	0.999999
rad35	4.41942e-09	1.000000	4.41942e-09	0.999999
rad45	3.81963e-09	1.000000	3.81963e-09	0.999999
rad38	2.26985e-09	1.000000	2.26985e-09	0.999999
rad12	7.47117e-10	1.000000	7.47117e-10	0.999999
rad33	7.10942e-10	1.000000	7.10942e-10	0.999999
rad39	6.41942e-10	1.000000	6.41942e-10	0.999999
rad14	4.08055e-10	1.000000	4.08055e-10	0.999999
rad27	3.38357e-10	1.000000	3.38357e-10	0.999999
rad25	2.61928e-10	1.000000	2.61928e-10	0.999999
rad36	2.36759e-10	1.000000	2.36759e-10	0.999999
rad22	1.58744e-10	1.000000	1.58744e-10	0.999999
rad46	1.77950e-11	1.000000	1.77950e-11	0.999999
PhCH2CCH+H	3.61206e-12	1.000000	3.61206e-12	0.999999
rad60syn	7.11370e-13	1.000000	7.11370e-13	0.999999
rad37	3.78276e-13	1.000000	3.78276e-13	0.999999

rad60anti	1.18621e-13	1.000000	1.18621e-13	0.999999
rad31	1.21125e-14	1.000000	1.21125e-14	0.999999
rad20	4.10212e-15	1.000000	4.10212e-15	0.999999
rad21	2.88695e-15	1.000000	2.88695e-15	0.999999
rad5	1.76863e-15	1.000000	1.76863e-15	0.999999
rad18	4.56209e-16	1.000000	4.56209e-16	0.999999
rad24	3.62787e-17	1.000000	3.62787e-17	0.999999
PAH3+H	5.71262e-19	1.000000	5.71262e-19	0.999999
rad59	2.64660e-19	1.000000	2.64660e-19	0.999999
rad50	3.44971e-20	1.000000	3.44971e-20	0.999999
rad19syn	1.50719e-23	1.000000	1.50719e-23	0.999999
rad54	5.59055e-27	1.000000	5.59055e-27	0.999999
PAH10+CH3	3.82500e-27	1.000000	3.82500e-27	0.999999
rad52	9.58833e-28	1.000000	9.58833e-28	0.999999
rad43	8.99795e-28	1.000000	8.99795e-28	0.999999
rad62	1.68587e-29	1.000000	1.68587e-29	0.999999
rad51	1.74460e-32	1.000000	1.74460e-32	0.999999
rad70	7.57799e-34	1.000000	7.57799e-34	0.999999
PhcycC3H3_A+H	4.47140e-34	1.000000	4.47140e-34	0.999999
rad55	2.26525e-34	1.000000	2.26525e-34	0.999999
rad65	1.62006e-36	1.000000	1.62006e-36	0.999999
rad58	1.93526e-37	1.000000	1.93526e-37	0.999999
PAH1+H	3.08904e-38	1.000000	3.08904e-38	0.999999
rad34	3.36779e-40	1.000000	3.36779e-40	0.999999
rad42	8.87961e-44	1.000000	8.87961e-44	0.999999
rad41	1.39677e-44	1.000000	1.39677e-44	0.999999
rad47	2.55138e-45	1.000000	2.55138e-45	0.999999

0.100000000 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06527e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44008e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.914902	0.914902	0.914902	0.914902
Indene+H	0.0831035	0.998005	0.0831035	0.998005
C2H2+PhCH2	0.000796642	0.998802	0.000796642	0.998802
rad2	0.000614744	0.999417	0.000614744	0.999417
Benzene+2-propynyl	0.000183695	0.999601	0.000183695	0.999601
rad7	0.000103290	0.999704	0.000103290	0.999704
rad28	7.72709e-05	0.999781	7.72710e-05	0.999781
PhCCH+CH3	4.46513e-05	0.999826	4.46513e-05	0.999826
rad1	3.96822e-05	0.999865	3.96822e-05	0.999865
rad10	3.73720e-05	0.999903	3.73720e-05	0.999903
rad11	2.83739e-05	0.999931	2.83739e-05	0.999931
PhCHCCH2+H	2.69034e-05	0.999958	2.69034e-05	0.999958
rad26	1.97532e-05	0.999978	1.97532e-05	0.999978
PhCCCH3+H	1.32298e-05	0.999991	1.32298e-05	0.999991
rad3	5.05123e-06	0.999996	5.05123e-06	0.999996
rad4	2.56765e-06	0.999999	2.56765e-06	0.999999
rad9	3.88161e-07	0.999999	3.88161e-07	0.999999
rad13	3.86480e-07	0.999999	3.86480e-07	0.999999
Ph+MeAc	3.70799e-07	1.000000	3.70799e-07	1.000000
rad23	1.96074e-07	1.000000	1.96074e-07	1.000000
rad8	1.18827e-07	1.000000	1.18827e-07	1.000000
Phenyl+Allene	5.08727e-08	1.000000	0.000000	1.000000
rad30	4.56503e-08	1.000000	4.56503e-08	1.000000
PAH9+H	9.47221e-09	1.000000	9.47221e-09	1.000000
rad15	8.68056e-09	1.000000	8.68056e-09	1.000000
PAH7+H	8.33631e-09	1.000000	8.33631e-09	1.000000
rad35	4.82561e-09	1.000000	4.82561e-09	1.000000
rad45	3.18776e-09	1.000000	3.18776e-09	1.000000
rad38	2.50819e-09	1.000000	2.50819e-09	1.000000
rad12	1.35656e-09	1.000000	1.35656e-09	1.000000
rad39	1.19943e-09	1.000000	1.19943e-09	1.000000
rad33	7.10496e-10	1.000000	7.10496e-10	1.000000
rad14	4.19556e-10	1.000000	4.19556e-10	1.000000
rad27	3.55404e-10	1.000000	3.55404e-10	1.000000
rad25	2.60566e-10	1.000000	2.60566e-10	1.000000
rad36	1.97548e-10	1.000000	1.97548e-10	1.000000
rad22	1.32178e-10	1.000000	1.32178e-10	1.000000
rad46	2.05495e-11	1.000000	2.05495e-11	1.000000
PhCH2CCH+H	1.35771e-11	1.000000	1.35771e-11	1.000000
rad37	1.45573e-12	1.000000	1.45573e-12	1.000000
rad60syn	9.31512e-13	1.000000	9.31512e-13	1.000000

rad60anti	1.80513e-13	1.00000	1.80513e-13	1.00000
rad31	1.29910e-14	1.00000	1.29910e-14	1.00000
rad5	8.34352e-15	1.00000	8.34352e-15	1.00000
rad20	4.12335e-15	1.00000	4.12335e-15	1.00000
rad21	2.91482e-15	1.00000	2.91482e-15	1.00000
rad18	4.11227e-16	1.00000	4.11227e-16	1.00000
rad24	3.07163e-17	1.00000	3.07163e-17	1.00000
PAH3+H	3.83424e-18	1.00000	3.83424e-18	1.00000
rad59	1.70570e-18	1.00000	1.70570e-18	1.00000
rad50	2.00789e-19	1.00000	2.00789e-19	1.00000
rad19syn	4.24336e-22	1.00000	4.24336e-22	1.00000
rad54	2.87733e-25	1.00000	2.87733e-25	1.00000
PAH10+CH3	1.90304e-25	1.00000	1.90304e-25	1.00000
rad43	4.59848e-26	1.00000	4.59848e-26	1.00000
rad52	2.46507e-26	1.00000	2.46507e-26	1.00000
rad62	1.27810e-27	1.00000	1.27810e-27	1.00000
rad51	1.31072e-30	1.00000	1.31072e-30	1.00000
rad70	9.18828e-32	1.00000	9.18828e-32	1.00000
PhcycC3H3_A+H	5.42001e-32	1.00000	5.42001e-32	1.00000
rad55	2.74614e-32	1.00000	2.74614e-32	1.00000
rad65	2.41858e-34	1.00000	2.41858e-34	1.00000
rad58	2.34535e-35	1.00000	2.34535e-35	1.00000
PAH1+H	3.73000e-36	1.00000	3.73000e-36	1.00000
rad34	4.06781e-38	1.00000	4.06781e-38	1.00000
rad42	1.08211e-41	1.00000	1.08211e-41	1.00000
rad41	1.73570e-42	1.00000	1.73570e-42	1.00000
rad47	2.81705e-43	1.00000	2.81705e-43	1.00000

0.100000000 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.910689	0.910689	0.910689	0.910689
Indene+H	0.0869426	0.997632	0.0869426	0.997632
C2H2+PhCH2	0.000860926	0.998493	0.000860926	0.998493
rad2	0.000639731	0.999133	0.000639731	0.999133
Benzene+2-propynyl	0.000420064	0.999553	0.000420064	0.999553
rad7	0.000101821	0.999654	0.000101821	0.999654
rad28	9.08355e-05	0.999745	9.08355e-05	0.999745
PhCCH+CH3	5.97699e-05	0.999805	5.97699e-05	0.999805
rad1	4.14605e-05	0.999846	4.14605e-05	0.999846
rad10	3.87367e-05	0.999885	3.87367e-05	0.999885
PhCHCCH2+H	3.53222e-05	0.999921	3.53222e-05	0.999921
rad11	2.78847e-05	0.999948	2.78847e-05	0.999948
rad26	2.39446e-05	0.999972	2.39446e-05	0.999972
PhCCCH3+H	1.82213e-05	0.999991	1.82213e-05	0.999991
rad3	5.15948e-06	0.999996	5.15948e-06	0.999996
rad4	2.62547e-06	0.999998	2.62547e-06	0.999998
Ph+MeAc	6.02924e-07	0.999999	6.02924e-07	0.999999
rad9	4.56573e-07	0.999999	4.56573e-07	0.999999
rad13	3.84666e-07	1.000000	3.84666e-07	1.000000
rad8	1.68849e-07	1.000000	1.68849e-07	1.000000
rad23	1.68503e-07	1.000000	1.68503e-07	1.000000
Phenyl+Allene	7.56966e-08	1.000000	0.000000	1.000000
rad30	5.00950e-08	1.000000	5.00950e-08	1.000000
PAH7+H	1.45288e-08	1.000000	1.45288e-08	1.000000
PAH9+H	1.04987e-08	1.000000	1.04987e-08	1.000000
rad15	9.64186e-09	1.000000	9.64186e-09	1.000000
rad35	5.31035e-09	1.000000	5.31035e-09	1.000000
rad38	2.79700e-09	1.000000	2.79700e-09	1.000000
rad45	2.70511e-09	1.000000	2.70511e-09	1.000000
rad12	2.39803e-09	1.000000	2.39803e-09	1.000000
rad39	2.22191e-09	1.000000	2.22191e-09	1.000000
rad33	7.09795e-10	1.000000	7.09795e-10	1.000000
rad14	4.29254e-10	1.000000	4.29254e-10	1.000000
rad27	3.70037e-10	1.000000	3.70037e-10	1.000000
rad25	2.59271e-10	1.000000	2.59271e-10	1.000000
rad36	1.67629e-10	1.000000	1.67629e-10	1.000000
rad22	1.11961e-10	1.000000	1.11961e-10	1.000000
PhCH2CCH+H	4.38195e-11	1.000000	4.38195e-11	1.000000
rad46	2.40577e-11	1.000000	2.40577e-11	1.000000
rad37	4.81705e-12	1.000000	4.81705e-12	1.000000
rad60syn	1.24139e-12	1.000000	1.24139e-12	1.000000

rad60anti	2.70454e-13	1.00000	2.70454e-13	1.00000
rad5	3.36165e-14	1.00000	3.36165e-14	1.00000
rad31	1.38444e-14	1.00000	1.38445e-14	1.00000
rad20	4.18034e-15	1.00000	4.18034e-15	1.00000
rad21	2.96766e-15	1.00000	2.96766e-15	1.00000
rad18	3.77881e-16	1.00000	3.77881e-16	1.00000
rad24	2.64296e-17	1.00000	2.64296e-17	1.00000
PAH3+H	2.06769e-17	1.00000	2.06769e-17	1.00000
rad59	8.80434e-18	1.00000	8.80435e-18	1.00000
rad50	9.60135e-19	1.00000	9.60135e-19	1.00000
rad19syn	8.90294e-21	1.00000	8.90294e-21	1.00000
rad54	1.07662e-23	1.00000	1.07662e-23	1.00000
PAH10+CH3	7.03719e-24	1.00000	7.03719e-24	1.00000
rad43	1.72757e-24	1.00000	1.72758e-24	1.00000
rad52	4.73104e-25	1.00000	4.73104e-25	1.00000
rad62	7.10669e-26	1.00000	7.10669e-26	1.00000
rad51	7.33971e-29	1.00000	7.33971e-29	1.00000
rad70	2.70950e-29	1.00000	2.70950e-29	1.00000
PhcycC3H3_A+H	1.79005e-29	1.00000	1.79005e-29	1.00000
rad55	9.21839e-30	1.00000	9.21839e-30	1.00000
rad65	3.07241e-32	1.00000	3.07241e-32	1.00000
rad58	8.62683e-33	1.00000	8.62683e-33	1.00000
PAH1+H	9.71664e-34	1.00000	9.71664e-34	1.00000
rad34	1.06358e-35	1.00000	1.06358e-35	1.00000
rad42	2.86459e-39	1.00000	2.86459e-39	1.00000
rad41	4.65301e-40	1.00000	4.65301e-40	1.00000
rad47	6.74033e-41	1.00000	6.74033e-41	1.00000

0.100000000 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.33719e-19 (1.00)	1.33719e-19 (1.00)
Formation of rad11	1.26517e-19 (0.946)	1.26517e-19 (0.946)
Formation of rad6	7.08974e-21 (0.0530)	7.08974e-21 (0.0530)
H-abstraction	1.11864e-22 (0.000837)	1.11864e-22 (0.000837)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.905784	0.905784	0.905784	0.905784
Indene+H	0.0912762	0.997060	0.0912762	0.997060
C2H2+PhCH2	0.000937006	0.997997	0.000937006	0.997997
Benzene+2-propynyl	0.000836559	0.998833	0.000836559	0.998833
rad2	0.000660384	0.999494	0.000660384	0.999494
rad28	0.000106070	0.999600	0.000106070	0.999600
rad7	0.000100400	0.999700	0.000100400	0.999700
PhCCH+CH3	7.98246e-05	0.999780	7.98246e-05	0.999780
PhCHCCH2+H	4.63765e-05	0.999826	4.63765e-05	0.999826
rad1	4.29853e-05	0.999869	4.29853e-05	0.999869
rad10	3.98467e-05	0.999909	3.98467e-05	0.999909
rad26	2.84706e-05	0.999938	2.84706e-05	0.999938
rad11	2.74212e-05	0.999965	2.74212e-05	0.999965
PhCCCH3+H	2.48898e-05	0.999990	2.48898e-05	0.999990
rad3	5.24386e-06	0.999995	5.24386e-06	0.999995
rad4	2.67152e-06	0.999998	2.67152e-06	0.999998
Ph+MeAc	9.67045e-07	0.999999	9.67045e-07	0.999999
rad9	5.44591e-07	0.999999	5.44591e-07	0.999999
rad13	3.82758e-07	1.000000	3.82758e-07	1.000000
rad8	2.37977e-07	1.000000	2.37977e-07	1.000000
rad23	1.46574e-07	1.000000	1.46574e-07	1.000000
Phenyl+Allene	1.12740e-07	1.000000	0.000000	1.000000
rad30	5.54529e-08	1.000000	5.54529e-08	1.000000
PAH7+H	2.51370e-08	1.000000	2.51370e-08	1.000000
PAH9+H	1.17501e-08	1.000000	1.17501e-08	1.000000
rad15	1.08162e-08	1.000000	1.08162e-08	1.000000
rad35	5.89614e-09	1.000000	5.89615e-09	1.000000
rad12	4.12505e-09	1.000000	4.12505e-09	1.000000
rad39	4.06346e-09	1.000000	4.06346e-09	1.000000
rad38	3.15165e-09	1.000000	3.15165e-09	1.000000
rad45	2.32694e-09	1.000000	2.32694e-09	1.000000
rad33	7.08699e-10	1.000000	7.08699e-10	1.000000
rad14	4.37172e-10	1.000000	4.37172e-10	1.000000
rad27	3.82363e-10	1.000000	3.82363e-10	1.000000
rad25	2.57950e-10	1.000000	2.57950e-10	1.000000
rad36	1.44216e-10	1.000000	1.44216e-10	1.000000
PhCH2CCH+H	1.24929e-10	1.000000	1.24929e-10	1.000000
rad22	9.61659e-11	1.000000	9.61659e-11	1.000000
rad46	2.85952e-11	1.000000	2.85952e-11	1.000000
rad37	1.39326e-11	1.000000	1.39326e-11	1.000000
rad60syn	1.68241e-12	1.000000	1.68241e-12	1.000000

rad60anti	4.02628e-13	1.00000	4.02628e-13	1.00000
rad5	1.17341e-13	1.00000	1.17341e-13	1.00000
rad31	1.46795e-14	1.00000	1.46795e-14	1.00000
rad20	4.26701e-15	1.00000	4.26701e-15	1.00000
rad21	3.04159e-15	1.00000	3.04159e-15	1.00000
rad18	3.52634e-16	1.00000	3.52634e-16	1.00000
PAH3+H	9.15682e-17	1.00000	9.15682e-17	1.00000
rad59	3.73084e-17	1.00000	3.73084e-17	1.00000
rad24	2.30429e-17	1.00000	2.30429e-17	1.00000
rad50	3.86762e-18	1.00000	3.86762e-18	1.00000
rad19syn	1.29465e-19	1.00000	1.29465e-19	1.00000
rad54	2.56736e-22	1.00000	2.56736e-22	1.00000
PAH10+CH3	1.67686e-22	1.00000	1.67686e-22	1.00000
rad43	4.15145e-23	1.00000	4.15145e-23	1.00000
rad52	6.37104e-24	1.00000	6.37104e-24	1.00000
rad62	2.32811e-24	1.00000	2.32811e-24	1.00000
rad51	2.41525e-27	1.00000	2.41525e-27	1.00000
rad70	2.18193e-27	1.00000	2.18193e-27	1.00000
PhcycC3H3_A+H	1.76737e-27	1.00000	1.76737e-27	1.00000
rad55	7.86957e-28	1.00000	7.86957e-28	1.00000
rad65	1.85861e-30	1.00000	1.85861e-30	1.00000
rad58	9.40473e-31	1.00000	9.40473e-31	1.00000
PAH1+H	2.97037e-31	1.00000	2.97037e-31	1.00000
rad34	3.27197e-33	1.00000	3.27197e-33	1.00000
rad42	8.90720e-37	1.00000	8.90720e-37	1.00000
rad41	1.44029e-37	1.00000	1.44029e-37	1.00000
rad47	3.15047e-38	1.00000	3.15047e-38	1.00000

0.100000000 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.59582e-19 (1.00)	3.59582e-19 (1.00)
Formation of rad11	3.35703e-19 (0.934)	3.35703e-19 (0.934)
Formation of rad6	2.33415e-20 (0.0649)	2.33415e-20 (0.0649)
H-abstraction	5.37685e-22 (0.00150)	5.37685e-22 (0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.900017	0.900017	0.900017	0.900017
Indene+H	0.0962036	0.996221	0.0962036	0.996221
Benzene+2-propynyl	0.00149531	0.997716	0.00149531	0.997716
C2H2+PhCH2	0.00102780	0.998744	0.00102780	0.998744
rad2	0.000676886	0.999421	0.000676886	0.999421
rad28	0.000122999	0.999544	0.000122999	0.999544
PhCCH+CH3	0.000106351	0.999650	0.000106351	0.999650
rad7	9.89868e-05	0.999749	9.89868e-05	0.999749
PhCHCCH2+H	6.08364e-05	0.999810	6.08364e-05	0.999810
rad1	4.42681e-05	0.999854	4.42681e-05	0.999854
rad10	4.07145e-05	0.999895	4.07145e-05	0.999895
PhCCCH3+H	3.37430e-05	0.999929	3.37430e-05	0.999929
rad26	3.32458e-05	0.999962	3.32458e-05	0.999962
rad11	2.69705e-05	0.999989	2.69705e-05	0.999989
rad3	5.30511e-06	0.999994	5.30511e-06	0.999994
rad4	2.70619e-06	0.999997	2.70619e-06	0.999997
Ph+MeAc	1.52951e-06	0.999998	1.52951e-06	0.999998
rad9	6.58929e-07	0.999999	6.58929e-07	0.999999
rad13	3.80648e-07	1.000000	3.80648e-07	1.000000
rad8	3.32801e-07	1.000000	3.32801e-07	1.000000
Phenyl+Allene	1.68275e-07	1.000000	0.000000	1.000000
rad23	1.28777e-07	1.000000	1.28777e-07	1.000000
rad30	6.19712e-08	1.000000	6.19712e-08	1.000000
PAH7+H	4.30240e-08	1.000000	4.30240e-08	1.000000
PAH9+H	1.32928e-08	1.000000	1.32928e-08	1.000000
rad15	1.22649e-08	1.000000	1.22649e-08	1.000000
rad39	7.31136e-09	1.000000	7.31136e-09	1.000000
rad12	6.90618e-09	1.000000	6.90618e-09	1.000000
rad35	6.61152e-09	1.000000	6.61152e-09	1.000000
rad38	3.59211e-09	1.000000	3.59211e-09	1.000000
rad45	2.02421e-09	1.000000	2.02421e-09	1.000000
rad33	7.07065e-10	1.000000	7.07065e-10	1.000000
rad14	4.43330e-10	1.000000	4.43330e-10	1.000000
rad27	3.92470e-10	1.000000	3.92470e-10	1.000000
PhCH2CCH+H	3.22350e-10	1.000000	3.22351e-10	1.000000
rad25	2.56525e-10	1.000000	2.56525e-10	1.000000
rad36	1.25500e-10	1.000000	1.25500e-10	1.000000
rad22	8.35490e-11	1.000000	8.35490e-11	1.000000
rad37	3.59228e-11	1.000000	3.59228e-11	1.000000
rad46	3.45460e-11	1.000000	3.45460e-11	1.000000
rad60syn	2.31609e-12	1.000000	2.31609e-12	1.000000

rad60anti	5.98772e-13	1.00000	5.98772e-13	1.00000
rad5	3.61834e-13	1.00000	3.61834e-13	1.00000
rad31	1.55033e-14	1.00000	1.55033e-14	1.00000
rad20	4.37928e-15	1.00000	4.37928e-15	1.00000
rad21	3.13411e-15	1.00000	3.13411e-15	1.00000
PAH3+H	3.43780e-16	1.00000	3.43780e-16	1.00000
rad18	3.33223e-16	1.00000	3.33223e-16	1.00000
rad59	1.34173e-16	1.00000	1.34173e-16	1.00000
rad24	2.03106e-17	1.00000	2.03106e-17	1.00000
rad50	1.35207e-17	1.00000	1.35207e-17	1.00000
rad19syn	1.35035e-18	1.00000	1.35035e-18	1.00000
rad54	4.08132e-21	1.00000	4.08133e-21	1.00000
PAH10+CH3	2.67602e-21	1.00000	2.67602e-21	1.00000
rad43	6.65461e-22	1.00000	6.65462e-22	1.00000
rad52	6.23588e-23	1.00000	6.23588e-23	1.00000
rad62	4.83209e-23	1.00000	4.83209e-23	1.00000
rad70	9.03514e-26	1.00000	9.03514e-26	1.00000
PhcycC3H3_A+H	8.40050e-26	1.00000	8.40050e-26	1.00000
rad51	5.05490e-26	1.00000	5.05490e-26	1.00000
rad55	3.40945e-26	1.00000	3.40946e-26	1.00000
PAH1+H	1.49730e-28	1.00000	1.49730e-28	1.00000
rad65	6.10858e-29	1.00000	6.10858e-29	1.00000
rad58	4.84746e-29	1.00000	4.84746e-29	1.00000
rad34	3.67222e-30	1.00000	3.67222e-30	1.00000
rad42	8.26795e-34	1.00000	8.26795e-34	1.00000
rad41	1.29456e-34	1.00000	1.29456e-34	1.00000
rad47	2.06822e-36	1.00000	2.06822e-36	1.00000

0.100000000 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.51464e-19 (1.00)	8.51464e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83710e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56651e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.893221	0.893221	0.893221	0.893221
Indene+H	0.101832	0.995053	0.101832	0.995053
Benzene+2-propynyl	0.00245244	0.997505	0.00245244	0.997505
C2H2+PhCH2	0.00113685	0.998642	0.00113685	0.998642
rad2	0.000689411	0.999331	0.000689411	0.999331
rad28	0.000141559	0.999473	0.000141559	0.999473
PhCCH+CH3	0.000141305	0.999614	0.000141305	0.999614
rad7	9.75491e-05	0.999712	9.75492e-05	0.999712
PhCHCCH2+H	7.96675e-05	0.999791	7.96675e-05	0.999791
PhCCCH3+H	4.54188e-05	0.999837	4.54188e-05	0.999837
rad1	4.53194e-05	0.999882	4.53195e-05	0.999882
rad10	4.13516e-05	0.999924	4.13516e-05	0.999924
rad26	3.81655e-05	0.999962	3.81655e-05	0.999962
rad11	2.65217e-05	0.999988	2.65218e-05	0.999988
rad3	5.34394e-06	0.999994	5.34394e-06	0.999994
rad4	2.72982e-06	0.999996	2.72982e-06	0.999996
Ph+MeAc	2.38536e-06	0.999999	2.38536e-06	0.999999
rad9	8.08594e-07	1.000000	8.08594e-07	1.000000
rad8	4.61864e-07	1.000000	4.61864e-07	1.000000
rad13	3.78239e-07	1.00000	3.78239e-07	1.00000
Phenyl+Allene	2.51817e-07	1.00000	0.00000	1.00000
rad23	1.14081e-07	1.00000	1.14081e-07	1.00000
PAH7+H	7.26349e-08	1.00000	7.26349e-08	1.00000
rad30	6.99608e-08	1.00000	6.99608e-08	1.00000
PAH9+H	1.52124e-08	1.00000	1.52124e-08	1.00000
rad15	1.40669e-08	1.00000	1.40669e-08	1.00000
rad39	1.29094e-08	1.00000	1.29094e-08	1.00000
rad12	1.12614e-08	1.00000	1.12614e-08	1.00000
rad35	7.49269e-09	1.00000	7.49269e-09	1.00000
rad38	4.14445e-09	1.00000	4.14445e-09	1.00000
rad45	1.77739e-09	1.00000	1.77739e-09	1.00000
PhCH2CCH+H	7.67199e-10	1.00000	7.67200e-10	1.00000
rad33	7.04749e-10	1.00000	7.04749e-10	1.00000
rad14	4.47752e-10	1.00000	4.47752e-10	1.00000
rad27	4.00443e-10	1.00000	4.00443e-10	1.00000
rad25	2.54922e-10	1.00000	2.54922e-10	1.00000
rad36	1.10263e-10	1.00000	1.10263e-10	1.00000
rad37	8.40732e-11	1.00000	8.40732e-11	1.00000
rad22	7.32784e-11	1.00000	7.32784e-11	1.00000
rad46	4.24475e-11	1.00000	4.24475e-11	1.00000
rad60syn	3.23388e-12	1.00000	3.23388e-12	1.00000

rad5	1.00393e-12	1.00000	1.00394e-12	1.00000
rad60anti	8.92045e-13	1.00000	8.92046e-13	1.00000
rad31	1.63236e-14	1.00000	1.63236e-14	1.00000
rad20	4.51442e-15	1.00000	4.51443e-15	1.00000
rad21	3.24357e-15	1.00000	3.24357e-15	1.00000
PAH3+H	1.12674e-15	1.00000	1.12674e-15	1.00000
rad59	4.22001e-16	1.00000	4.22001e-16	1.00000
rad18	3.18138e-16	1.00000	3.18138e-16	1.00000
rad50	4.20988e-17	1.00000	4.20988e-17	1.00000
rad24	1.80662e-17	1.00000	1.80662e-17	1.00000
rad19syn	1.06232e-17	1.00000	1.06232e-17	1.00000
rad54	4.60744e-20	1.00000	4.60744e-20	1.00000
PAH10+CH3	3.03787e-20	1.00000	3.03787e-20	1.00000
rad43	7.56802e-21	1.00000	7.56802e-21	1.00000
rad62	6.85039e-22	1.00000	6.85039e-22	1.00000
rad52	4.66154e-22	1.00000	4.66154e-22	1.00000
PhcycC3H3_A+H	2.22094e-24	1.00000	2.22094e-24	1.00000
rad70	2.18769e-24	1.00000	2.18769e-24	1.00000
rad55	8.51686e-25	1.00000	8.51687e-25	1.00000
rad51	7.26364e-25	1.00000	7.26364e-25	1.00000
PAH1+H	7.20251e-27	1.00000	7.20251e-27	1.00000
rad58	1.34866e-27	1.00000	1.34866e-27	1.00000
rad65	1.26549e-27	1.00000	1.26549e-27	1.00000
rad34	2.21584e-28	1.00000	2.21584e-28	1.00000
rad42	7.14876e-31	1.00000	7.14876e-31	1.00000
rad41	1.48473e-31	1.00000	1.48473e-31	1.00000
rad47	6.23009e-35	1.00000	6.23009e-35	1.00000

0.100000000 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.81800e-18 (1.00)	1.81800e-18 (1.00)
Formation of rad11	1.64862e-18 (0.907)	1.64862e-18 (0.907)
Formation of rad6	1.62558e-19 (0.0894)	1.62558e-19 (0.0894)
H-abstraction	6.82130e-21 (0.00375)	6.82130e-21 (0.00375)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.885229	0.885229	0.885229	0.885229
Indene+H	0.108271	0.993500	0.108271	0.993500
Benzene+2-propynyl	0.00375209	0.997252	0.00375209	0.997252
C2H2+PhCH2	0.00126843	0.998521	0.00126843	0.998521
rad2	0.000698129	0.999219	0.000698130	0.999219
PhCCH+CH3	0.000187158	0.999406	0.000187158	0.999406
rad28	0.000161591	0.999568	0.000161591	0.999568
PhCHCCH2+H	0.000104070	0.999672	0.000104070	0.999672
rad7	9.60573e-05	0.999768	9.60573e-05	0.999768
PhCCCH3+H	6.07107e-05	0.999828	6.07107e-05	0.999828
rad1	4.61495e-05	0.999875	4.61495e-05	0.999875
rad26	4.31114e-05	0.999918	4.31114e-05	0.999918
rad10	4.17692e-05	0.999960	4.17692e-05	0.999960
rad11	2.60657e-05	0.999986	2.60657e-05	0.999986
rad3	5.36110e-06	0.999991	5.36110e-06	0.999991
Ph+MeAc	3.66835e-06	0.999995	3.66835e-06	0.999995
rad4	2.74278e-06	0.999997	2.74278e-06	0.999997
rad9	1.00560e-06	0.999998	1.00560e-06	0.999998
rad8	6.36110e-07	0.999999	6.36111e-07	0.999999
Phenyl+Allene	3.77689e-07	0.999999	0.00000	0.999999
rad13	3.75439e-07	1.000000	3.75439e-07	0.999999
PAH7+H	1.20670e-07	1.000000	1.20670e-07	1.000000
rad23	1.01759e-07	1.000000	1.01759e-07	1.000000
rad30	7.98124e-08	1.00000	7.98124e-08	1.000000
rad39	2.23254e-08	1.00000	2.23254e-08	1.000000
rad12	1.79040e-08	1.00000	1.79041e-08	1.000000
PAH9+H	1.76192e-08	1.00000	1.76192e-08	1.000000
rad15	1.63233e-08	1.00000	1.63233e-08	1.000000
rad35	8.58577e-09	1.00000	8.58578e-09	1.000000
rad38	4.84275e-09	1.00000	4.84275e-09	1.000000
PhCH2CCH+H	1.70870e-09	1.00000	1.70870e-09	1.000000
rad45	1.57291e-09	1.00000	1.57291e-09	1.000000
rad33	7.01607e-10	1.00000	7.01608e-10	1.000000
rad14	4.50466e-10	1.00000	4.50466e-10	1.000000
rad27	4.06361e-10	1.00000	4.06361e-10	1.000000
rad25	2.53077e-10	1.00000	2.53077e-10	1.000000
rad37	1.81369e-10	1.00000	1.81369e-10	1.000000
rad36	9.76615e-11	1.00000	9.76615e-11	1.000000
rad22	6.47795e-11	1.00000	6.47795e-11	1.000000
rad46	5.30515e-11	1.00000	5.30515e-11	1.000000
rad60syn	4.57127e-12	1.00000	4.57127e-12	1.000000

rad5	2.54555e-12	1.00000	2.54555e-12	1.000000
rad60anti	1.33268e-12	1.00000	1.33268e-12	1.000000
rad31	1.71488e-14	1.00000	1.71488e-14	1.000000
rad20	4.67054e-15	1.00000	4.67054e-15	1.000000
rad21	3.36889e-15	1.00000	3.36889e-15	1.000000
PAH3+H	3.30263e-15	1.00000	3.30264e-15	1.000000
rad59	1.18956e-15	1.00000	1.18956e-15	1.000000
rad18	3.06331e-16	1.00000	3.06331e-16	1.000000
rad50	1.19191e-16	1.00000	1.19191e-16	1.000000
rad19syn	6.60003e-17	1.00000	6.60003e-17	1.000000
rad24	1.61933e-17	1.00000	1.61933e-17	1.000000
rad54	3.91114e-19	1.00000	3.91114e-19	1.000000
PAH10+CH3	2.59376e-19	1.00000	2.59377e-19	1.000000
rad43	6.46014e-20	1.00000	6.46015e-20	1.000000
rad62	7.07649e-21	1.00000	7.07649e-21	1.000000
rad52	2.78383e-21	1.00000	2.78383e-21	1.000000
PhcycC3H3_A+H	3.91270e-23	1.00000	3.91270e-23	1.000000
rad70	3.56770e-23	1.00000	3.56770e-23	1.000000
rad55	1.42615e-23	1.00000	1.42615e-23	1.000000
rad51	7.65091e-24	1.00000	7.65090e-24	1.000000
PAH1+H	1.92788e-25	1.00000	1.92788e-25	1.000000
rad58	2.47608e-26	1.00000	2.47608e-26	1.000000
rad65	1.81984e-26	1.00000	1.81984e-26	1.000000
rad34	6.89843e-27	1.00000	6.89843e-27	1.000000
rad42	3.68602e-29	1.00000	3.68602e-29	1.000000
rad41	8.89891e-30	1.00000	8.89892e-30	1.000000
rad47	1.16154e-33	1.00000	1.16154e-33	1.000000

0.100000000 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.56414e-18 (1.00)	3.56413e-18 (1.00)
Formation of rad11	3.18264e-18 (0.893)	3.18263e-18 (0.893)
Formation of rad6	3.62173e-19 (0.102)	3.62173e-19 (0.102)
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.875882	0.875882	0.875883	0.875883
Indene+H	0.115643	0.991526	0.115643	0.991527
Benzene+2-propynyl	0.00542285	0.996949	0.00542285	0.996950
C2H2+PhCH2	0.00142777	0.998376	0.00142777	0.998377
rad2	0.000703206	0.999080	0.000703206	0.999081
PhCCH+CH3	0.000246992	0.999327	0.000246992	0.999328
rad28	0.000182833	0.999509	0.000182833	0.999510
PhCHCCH2+H	0.000135515	0.999645	0.000135515	0.999646
rad7	9.44857e-05	0.999739	9.44857e-05	0.999740
PhCCCH3+H	8.05905e-05	0.999820	8.05905e-05	0.999821
rad26	4.79600e-05	0.999868	4.79600e-05	0.999869
rad1	4.67680e-05	0.999915	4.67680e-05	0.999916
rad10	4.19777e-05	0.999957	4.19778e-05	0.999958
rad11	2.55945e-05	0.999982	2.55946e-05	0.999983
Ph+MeAc	5.56312e-06	0.999988	5.56312e-06	0.999989
rad3	5.35729e-06	0.999993	5.35729e-06	0.999994
rad4	2.74543e-06	0.999996	2.74543e-06	0.999997
rad9	1.26584e-06	0.999997	1.26584e-06	0.999998
rad8	8.69355e-07	0.999998	8.69356e-07	0.999999
Phenyl+Allene	5.67205e-07	0.999999	0.00000	0.999999
rad13	3.72165e-07	0.999999	3.72165e-07	0.999999
PAH7+H	1.96925e-07	0.999999	1.96925e-07	1.000000
rad30	9.20141e-08	0.999999	9.20142e-08	1.000000
rad23	9.12887e-08	0.999999	9.12888e-08	1.000000
rad39	3.77688e-08	0.999999	3.77688e-08	1.000000
rad12	2.77859e-08	1.000000	2.77859e-08	1.000000
PAH9+H	2.06559e-08	1.000000	2.06559e-08	1.000000
rad15	1.91634e-08	1.000000	1.91634e-08	1.000000
rad35	9.94925e-09	1.000000	9.94925e-09	1.000000
rad38	5.73141e-09	1.000000	5.73141e-09	1.000000
PhCH2CCH+H	3.59983e-09	1.000000	3.59984e-09	1.000000
rad45	1.40111e-09	1.000000	1.40111e-09	1.000000
rad33	6.97500e-10	1.000000	6.97501e-10	1.000000
rad14	4.51503e-10	1.000000	4.51503e-10	1.000000
rad27	4.10303e-10	1.000000	4.10303e-10	1.000000
rad37	3.65202e-10	1.000000	3.65202e-10	1.000000
rad25	2.50929e-10	1.000000	2.50929e-10	1.000000
rad36	8.70939e-11	1.000000	8.70940e-11	1.000000
rad46	6.74053e-11	1.000000	6.74054e-11	1.000000
rad22	5.76445e-11	1.000000	5.76445e-11	1.000000
rad60syn	6.52760e-12	1.000000	6.52761e-12	1.000000

rad5	5.97351e-12	1.000000	5.97352e-12	1.00000
rad60anti	1.99607e-12	1.000000	1.99607e-12	1.00000
rad31	1.79885e-14	1.000000	1.79885e-14	1.00000
PAH3+H	8.82409e-15	1.000000	8.82409e-15	1.00000
rad20	4.84626e-15	1.000000	4.84626e-15	1.00000
rad21	3.50937e-15	1.000000	3.50937e-15	1.00000
rad59	3.06363e-15	1.000000	3.06363e-15	1.00000
rad19syn	3.36469e-16	1.000000	3.36469e-16	1.00000
rad50	3.11776e-16	1.000000	3.11776e-16	1.00000
rad18	2.97054e-16	1.000000	2.97054e-16	1.00000
rad24	1.46088e-17	1.000000	1.46089e-17	1.00000
rad54	2.61709e-18	1.000000	2.61709e-18	1.00000
PAH10+CH3	1.74462e-18	1.000000	1.74462e-18	1.00000
rad43	4.33679e-19	1.000000	4.33679e-19	1.00000
rad62	5.61297e-20	1.000000	5.61297e-20	1.00000
rad52	1.37863e-20	1.000000	1.37863e-20	1.00000
PhcycC3H3_A+H	4.94606e-22	1.000000	4.94607e-22	1.00000
rad70	4.20424e-22	1.000000	4.20424e-22	1.00000
rad55	1.72022e-22	1.000000	1.72022e-22	1.00000
rad51	6.22519e-23	1.000000	6.22519e-23	1.00000
PAH1+H	3.37134e-24	1.000000	3.37134e-24	1.00000
rad58	3.24515e-25	1.000000	3.24515e-25	1.00000
rad65	1.93506e-25	1.000000	1.93506e-25	1.00000
rad34	1.32317e-25	1.000000	1.32317e-25	1.00000
rad42	9.20726e-28	1.000000	9.20727e-28	1.00000
rad41	2.34799e-28	1.000000	2.34799e-28	1.00000
rad47	1.50316e-32	1.000000	1.50316e-32	1.00000

0.100000000 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.50681e-18 (1.00)	6.50681e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71914e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39012e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.865035	0.865035	0.865035	0.865035
Indene+H	0.124071	0.989106	0.124071	0.989106
Benzene+2-propynyl	0.00747672	0.996583	0.00747672	0.996583
C2H2+PhCH2	0.00162102	0.998204	0.00162102	0.998204
rad2	0.000704802	0.998909	0.000704802	0.998909
PhCCH+CH3	0.000324588	0.999233	0.000324588	0.999233
rad28	0.000204920	0.999438	0.000204921	0.999438
PhCHCCH2+H	0.000175781	0.999614	0.000175781	0.999614
PhCCCH3+H	0.000106228	0.999720	0.000106229	0.999720
rad7	9.28118e-05	0.999813	9.28119e-05	0.999813
rad26	5.25884e-05	0.999865	5.25885e-05	0.999865
rad1	4.71842e-05	0.999913	4.71842e-05	0.999913
rad10	4.19876e-05	0.999955	4.19876e-05	0.999955
rad11	2.51015e-05	0.999980	2.51015e-05	0.999980
Ph+MeAc	8.31892e-06	0.999988	8.31893e-06	0.999988
rad3	5.33324e-06	0.999993	5.33325e-06	0.999993
rad4	2.73812e-06	0.999996	2.73812e-06	0.999996
rad9	1.61003e-06	0.999998	1.61003e-06	0.999998
rad8	1.17872e-06	0.999999	1.17872e-06	0.999999
Phenyl+Allene	8.51617e-07	1.000000	0.000000	0.999999
rad13	3.68338e-07	1.000000	3.68338e-07	0.999999
PAH7+H	3.15302e-07	1.000000	3.15302e-07	1.000000
rad30	1.07171e-07	1.000000	1.07171e-07	1.000000
rad23	8.22858e-08	1.000000	8.22859e-08	1.000000
rad39	6.24576e-08	1.000000	6.24576e-08	1.000000
rad12	4.21440e-08	1.000000	4.21440e-08	1.000000
PAH9+H	2.45044e-08	1.000000	2.45044e-08	1.000000
rad15	2.27505e-08	1.000000	2.27505e-08	1.000000
rad35	1.16566e-08	1.000000	1.16567e-08	1.000000
PhCH2CCH+H	7.23148e-09	1.000000	7.23149e-09	1.000000
rad38	6.86777e-09	1.000000	6.86778e-09	1.000000
rad45	1.25498e-09	1.000000	1.25498e-09	1.000000
rad37	6.93341e-10	1.000000	6.93341e-10	1.000000
rad33	6.92296e-10	1.000000	6.92297e-10	1.000000
rad14	4.50893e-10	1.000000	4.50893e-10	1.000000
rad27	4.12346e-10	1.000000	4.12346e-10	1.000000
rad25	2.48423e-10	1.000000	2.48423e-10	1.000000
rad46	8.69584e-11	1.000000	8.69585e-11	1.000000
rad36	7.81230e-11	1.000000	7.81230e-11	1.000000
rad22	5.15774e-11	1.000000	5.15774e-11	1.000000
rad5	1.31061e-11	1.000000	1.31061e-11	1.000000

rad60syn	9.39273e-12	1.00000	9.39274e-12	1.000000
rad60anti	2.99391e-12	1.00000	2.99392e-12	1.000000
PAH3+H	2.18117e-14	1.00000	2.18118e-14	1.000000
rad31	1.88534e-14	1.00000	1.88534e-14	1.000000
rad59	7.31677e-15	1.00000	7.31678e-15	1.000000
rad20	5.04055e-15	1.00000	5.04055e-15	1.000000
rad21	3.66452e-15	1.00000	3.66452e-15	1.000000
rad19syn	1.45200e-15	1.00000	1.45200e-15	1.000000
rad50	7.62648e-16	1.00000	7.62649e-16	1.000000
rad18	2.89751e-16	1.00000	2.89751e-16	1.000000
rad54	1.43409e-17	1.00000	1.43409e-17	1.000000
rad24	1.32518e-17	1.00000	1.32518e-17	1.000000
PAH10+CH3	9.59898e-18	1.00000	9.59899e-18	1.000000
rad43	2.37790e-18	1.00000	2.37791e-18	1.000000
rad62	3.56604e-19	1.00000	3.56604e-19	1.000000
rad52	5.83562e-20	1.00000	5.83562e-20	1.000000
PhcycC3H3_A+H	4.74777e-21	1.00000	4.74777e-21	1.000000
rad70	3.78083e-21	1.00000	3.78084e-21	1.000000
rad55	1.58019e-21	1.00000	1.58019e-21	1.000000
rad51	4.08116e-22	1.00000	4.08116e-22	1.000000
PAH1+H	4.26374e-23	1.00000	4.26375e-23	1.000000
rad58	3.21956e-24	1.00000	3.21956e-24	1.000000
rad34	1.80664e-24	1.00000	1.80664e-24	1.000000
rad65	1.59988e-24	1.00000	1.59988e-24	1.000000
rad42	1.53283e-26	1.00000	1.53283e-26	1.000000
rad41	4.03681e-27	1.00000	4.03681e-27	1.000000
rad47	1.43496e-31	1.00000	1.43496e-31	1.000000

0.100000000 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.11858e-17 (1.00)	1.11858e-17 (1.00)
Formation of rad11	9.67466e-18 (0.865)	9.67464e-18 (0.865)
Formation of rad6	1.40029e-18 (0.125)	1.40029e-18 (0.125)
H-abstraction	1.10851e-19 (0.00991)	1.10851e-19 (0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.852547	0.852547	0.852548	0.852548
Indene+H	0.133679	0.986226	0.133679	0.986227
Benzene+2-propynyl	0.00990995	0.996136	0.00990997	0.996137
C2H2+PhCH2	0.00185548	0.997991	0.00185548	0.997992
rad2	0.000703073	0.998694	0.000703074	0.998695
PhCCH+CH3	0.000424494	0.999119	0.000424495	0.999120
rad28	0.000227401	0.999346	0.000227401	0.999347
PhCHCCH2+H	0.000226972	0.999573	0.000226972	0.999574
PhCCCH3+H	0.000139003	0.999712	0.000139003	0.999713
rad7	9.10163e-05	0.999803	9.10164e-05	0.999804
rad26	5.68822e-05	0.999860	5.68823e-05	0.999861
rad1	4.74067e-05	0.999907	4.74067e-05	0.999908
rad10	4.18082e-05	0.999949	4.18083e-05	0.999950
rad11	2.45807e-05	0.999974	2.45808e-05	0.999975
Ph+MeAc	1.22646e-05	0.999986	1.22646e-05	0.999987
rad3	5.28967e-06	0.999991	5.28968e-06	0.999992
rad4	2.72119e-06	0.999994	2.72119e-06	0.999995
rad9	2.06486e-06	0.999996	2.06486e-06	0.999997
rad8	1.58501e-06	0.999998	1.58501e-06	0.999999
Phenyl+Allene	1.27595e-06	0.999999	0.00000	0.999999
PAH7+H	4.94939e-07	0.999999	4.94940e-07	0.999999
rad13	3.63887e-07	1.000000	3.63887e-07	1.000000
rad30	1.26019e-07	1.000000	1.26020e-07	1.000000
rad39	1.00932e-07	1.00000	1.00932e-07	1.000000
rad23	7.44616e-08	1.00000	7.44617e-08	1.000000
rad12	6.25426e-08	1.00000	6.25426e-08	1.000000
PAH9+H	2.93953e-08	1.00000	2.93954e-08	1.000000
rad15	2.72886e-08	1.00000	2.72887e-08	1.000000
PhCH2CCH+H	1.39340e-08	1.00000	1.39340e-08	1.00000
rad35	1.37995e-08	1.00000	1.37995e-08	1.00000
rad38	8.32524e-09	1.00000	8.32525e-09	1.00000
rad37	1.25114e-09	1.00000	1.25114e-09	1.00000
rad45	1.12928e-09	1.00000	1.12928e-09	1.00000
rad33	6.85866e-10	1.00000	6.85867e-10	1.00000
rad14	4.48670e-10	1.00000	4.48671e-10	1.00000
rad27	4.12560e-10	1.00000	4.12561e-10	1.00000
rad25	2.45507e-10	1.00000	2.45508e-10	1.00000
rad46	1.13695e-10	1.00000	1.13695e-10	1.00000
rad36	7.04238e-11	1.00000	7.04239e-11	1.00000
rad22	4.63591e-11	1.00000	4.63592e-11	1.00000
rad5	2.71059e-11	1.00000	2.71059e-11	1.00000

rad60syn	1.35822e-11	1.00000	1.35822e-11	1.00000
rad60anti	4.48920e-12	1.00000	4.48920e-12	1.00000
PAH3+H	5.04545e-14	1.00000	5.04545e-14	1.00000
rad31	1.97557e-14	1.00000	1.97558e-14	1.00000
rad59	1.63906e-14	1.00000	1.63907e-14	1.00000
rad19syn	5.43953e-15	1.00000	5.43953e-15	1.00000
rad20	5.25261e-15	1.00000	5.25261e-15	1.00000
rad21	3.83402e-15	1.00000	3.83403e-15	1.00000
rad50	1.76067e-15	1.00000	1.76067e-15	1.00000
rad18	2.84001e-16	1.00000	2.84001e-16	1.00000
rad54	6.63658e-17	1.00000	6.63659e-17	1.00000
PAH10+CH3	4.45369e-17	1.00000	4.45370e-17	1.00000
rad24	1.20763e-17	1.00000	1.20763e-17	1.00000
rad43	1.09798e-17	1.00000	1.09798e-17	1.00000
rad62	1.87739e-18	1.00000	1.87739e-18	1.00000
rad52	2.16343e-19	1.00000	2.16344e-19	1.00000
PhcycC3H3_A+H	3.61148e-20	1.00000	3.61148e-20	1.00000
rad70	2.70658e-20	1.00000	2.70658e-20	1.00000
rad55	1.15364e-20	1.00000	1.15364e-20	1.00000
rad51	2.22964e-21	1.00000	2.22964e-21	1.00000
PAH1+H	4.10906e-22	1.00000	4.10906e-22	1.00000
rad58	2.52440e-23	1.00000	2.52440e-23	1.00000
rad34	1.85935e-23	1.00000	1.85936e-23	1.00000
rad65	1.06983e-23	1.00000	1.06983e-23	1.00000
rad42	1.85634e-25	1.00000	1.85634e-25	1.00000
rad41	5.01145e-26	1.00000	5.01146e-26	1.00000
rad47	1.06009e-30	1.00000	1.06009e-30	1.00000

0.100000000 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.82690e-17 (1.00)	1.82690e-17 (1.00)
Formation of rad11	1.55456e-17 (0.851)	1.55456e-17 (0.851)
Formation of rad6	2.49126e-18 (0.136)	2.49126e-18 (0.136)
H-abstraction	2.32112e-19 (0.0127)	2.32112e-19 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.838298	0.838298	0.838300	0.838300
Indene+H	0.144588	0.982886	0.144588	0.982888
Benzene+2-propynyl	0.0127053	0.995592	0.0127053	0.995594
C2H2+PhCH2	0.00213958	0.997731	0.00213958	0.997733
rad2	0.000698169	0.998429	0.000698170	0.998431
PhCCH+CH3	0.000552070	0.998982	0.000552071	0.998984
PhCHCCH2+H	0.000291526	0.999273	0.000291527	0.999275
rad28	0.000249748	0.999523	0.000249748	0.999525
PhCCCH3+H	0.000180501	0.999703	0.000180501	0.999705
rad7	8.90821e-05	0.999792	8.90823e-05	0.999794
rad26	6.07391e-05	0.999853	6.07392e-05	0.999855
rad1	4.74434e-05	0.999901	4.74434e-05	0.999903
rad10	4.14490e-05	0.999942	4.14491e-05	0.999944
rad11	2.40271e-05	0.999966	2.40271e-05	0.999968
Ph+MeAc	1.78230e-05	0.999984	1.78231e-05	0.999986
rad3	5.22726e-06	0.999989	5.22727e-06	0.999991
rad4	2.69497e-06	0.999992	2.69497e-06	0.999994
rad9	2.66400e-06	0.999994	2.66400e-06	0.999996
rad8	2.11286e-06	0.999997	2.11286e-06	0.999999
Phenyl+Allene	1.90383e-06	0.999998	0.00000	0.999999
PAH7+H	7.61427e-07	0.999999	7.61428e-07	0.999999
rad13	3.58745e-07	1.000000	3.58745e-07	1.000000
rad39	1.59396e-07	1.000000	1.59397e-07	1.000000
rad30	1.49448e-07	1.000000	1.49449e-07	1.000000
rad12	9.09061e-08	1.00000	9.09062e-08	1.00000
rad23	6.75964e-08	1.00000	6.75965e-08	1.00000
PAH9+H	3.56162e-08	1.00000	3.56163e-08	1.00000
rad15	3.30285e-08	1.00000	3.30286e-08	1.00000
PhCH2CCH+H	2.58675e-08	1.00000	2.58675e-08	1.00000
rad35	1.64899e-08	1.00000	1.64900e-08	1.00000
rad38	1.01964e-08	1.00000	1.01964e-08	1.00000
rad37	2.15974e-09	1.00000	2.15975e-09	1.00000
rad45	1.02008e-09	1.00000	1.02008e-09	1.00000
rad33	6.78094e-10	1.00000	6.78095e-10	1.00000
rad14	4.44867e-10	1.00000	4.44868e-10	1.00000
rad27	4.11014e-10	1.00000	4.11015e-10	1.00000
rad25	2.42137e-10	1.00000	2.42137e-10	1.00000
rad46	1.50295e-10	1.00000	1.50295e-10	1.00000
rad36	6.37515e-11	1.00000	6.37516e-11	1.00000
rad5	5.31966e-11	1.00000	5.31967e-11	1.00000
rad22	4.18249e-11	1.00000	4.18250e-11	1.00000

rad60syn	1.96811e-11	1.00000	1.96812e-11	1.00000
rad60anti	6.71546e-12	1.00000	6.71547e-12	1.00000
PAH3+H	1.10194e-13	1.00000	1.10195e-13	1.00000
rad59	3.47446e-14	1.00000	3.47447e-14	1.00000
rad31	2.07093e-14	1.00000	2.07094e-14	1.00000
rad19syn	1.80559e-14	1.00000	1.80559e-14	1.00000
rad20	5.48171e-15	1.00000	5.48172e-15	1.00000
rad21	4.01765e-15	1.00000	4.01766e-15	1.00000
rad50	3.86326e-15	1.00000	3.86327e-15	1.00000
rad18	2.79474e-16	1.00000	2.79474e-16	1.00000
rad54	2.65918e-16	1.00000	2.65918e-16	1.00000
PAH10+CH3	1.78611e-16	1.00000	1.78611e-16	1.00000
rad43	4.37673e-17	1.00000	4.37674e-17	1.00000
rad24	1.10481e-17	1.00000	1.10481e-17	1.00000
rad62	8.41844e-18	1.00000	8.41845e-18	1.00000
rad52	7.16421e-19	1.00000	7.16422e-19	1.00000
PhcycC3H3_A+H	2.25224e-19	1.00000	2.25224e-19	1.00000
rad70	1.59536e-19	1.00000	1.59536e-19	1.00000
rad55	6.92550e-20	1.00000	6.92552e-20	1.00000
rad51	1.04293e-20	1.00000	1.04293e-20	1.00000
PAH1+H	3.14119e-21	1.00000	3.14120e-21	1.00000
rad58	1.61879e-22	1.00000	1.61879e-22	1.00000
rad34	1.50470e-22	1.00000	1.50470e-22	1.00000
rad65	5.97091e-23	1.00000	5.97092e-23	1.00000
rad42	1.72521e-24	1.00000	1.72522e-24	1.00000
rad41	4.75659e-25	1.00000	4.75660e-25	1.00000
rad47	6.29925e-30	1.00000	6.29926e-30	1.00000

0.100000000 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.85520e-17 (1.00)	2.85520e-17 (1.00)
Formation of rad11	2.39009e-17 (0.837)	2.39009e-17 (0.837)
Formation of rad6	4.19900e-18 (0.147)	4.19899e-18 (0.147)
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.822185	0.822185	0.822186	0.822186
Indene+H	0.156911	0.979096	0.156911	0.979098
Benzene+2-propynyl	0.00158346	0.994931	0.00158347	0.994933
C2H2+PhCH2	0.00248286	0.997413	0.00248287	0.997415
PhCCH+CH3	0.000713465	0.998127	0.000713467	0.998129
rad2	0.000690235	0.998817	0.000690236	0.998819
PhCHCCH2+H	0.000372198	0.999189	0.000372199	0.999191
rad28	0.000271392	0.999461	0.000271393	0.999463
PhCCCH3+H	0.000232496	0.999693	0.000232497	0.999695
rad7	8.69954e-05	0.999780	8.69957e-05	0.999782
rad26	6.40736e-05	0.999844	6.40738e-05	0.999846
rad1	4.73012e-05	0.999892	4.73012e-05	0.999894
rad10	4.09185e-05	0.999933	4.09186e-05	0.999934
Ph+MeAc	2.55242e-05	0.999958	2.55242e-05	0.999960
rad11	2.34365e-05	0.999981	2.34366e-05	0.999983
rad3	5.14669e-06	0.999987	5.14670e-06	0.999989
rad9	3.44917e-06	0.999990	3.44918e-06	0.999992
Phenyl+Allene	2.82325e-06	0.999993	0.00000	0.999992
rad8	2.79077e-06	0.999996	2.79078e-06	0.999995
rad4	2.65976e-06	0.999998	2.65977e-06	0.999997
PAH7+H	1.14801e-06	0.999999	1.14802e-06	0.999999
rad13	3.52857e-07	1.000000	3.52858e-07	0.999999
rad39	2.46084e-07	1.00000	2.46084e-07	0.999999
rad30	1.78505e-07	1.00000	1.78506e-07	0.999999
rad12	1.29536e-07	1.00000	1.29536e-07	1.000000
rad23	6.15210e-08	1.00000	6.15211e-08	1.000000
PhCH2CCH+H	4.64232e-08	1.00000	4.64233e-08	1.000000
PAH9+H	4.35205e-08	1.00000	4.35206e-08	1.000000
rad15	4.02732e-08	1.00000	4.02733e-08	1.000000
rad35	1.98635e-08	1.00000	1.98636e-08	1.000000
rad38	1.25964e-08	1.00000	1.25964e-08	1.000000
rad37	3.58488e-09	1.00000	3.58490e-09	1.000000
rad45	9.24376e-10	1.00000	9.24379e-10	1.000000
rad33	6.68870e-10	1.00000	6.68872e-10	1.000000
rad14	4.39516e-10	1.00000	4.39517e-10	1.000000
rad27	4.07772e-10	1.00000	4.07773e-10	1.000000
rad25	2.38270e-10	1.00000	2.38271e-10	1.000000
rad46	2.00325e-10	1.00000	2.00325e-10	1.000000
rad5	9.96084e-11	1.00000	9.96084e-11	1.000000
rad36	5.79183e-11	1.00000	5.79185e-11	1.000000
rad22	3.78487e-11	1.00000	3.78488e-11	1.000000

rad60syn	2.84992e-11	1.00000	2.84993e-11	1.000000
rad60anti	1.00008e-11	1.00000	1.00009e-11	1.000000
PAH3+H	2.28820e-13	1.00000	2.28820e-13	1.000000
rad59	7.01706e-14	1.00000	7.01708e-14	1.000000
rad19syn	5.40030e-14	1.00000	5.40032e-14	1.000000
rad31	2.17304e-14	1.00000	2.17304e-14	1.000000
rad50	8.10102e-15	1.00000	8.10104e-15	1.000000
rad20	5.72716e-15	1.00000	5.72718e-15	1.000000
rad21	4.21517e-15	1.00000	4.21518e-15	1.000000
rad54	9.41458e-16	1.00000	9.41460e-16	1.000000
PAH10+CH3	6.31730e-16	1.00000	6.31732e-16	1.000000
rad18	2.75901e-16	1.00000	2.75901e-16	1.000000
rad43	1.53694e-16	1.00000	1.53694e-16	1.000000
rad62	3.28803e-17	1.00000	3.28804e-17	1.000000
rad24	1.01405e-17	1.00000	1.01406e-17	1.000000
rad52	2.15327e-18	1.00000	2.15328e-18	1.000000
PhcycC3H3_A+H	1.18342e-18	1.00000	1.18343e-18	1.000000
rad70	7.95651e-19	1.00000	7.95653e-19	1.000000
rad55	3.51337e-19	1.00000	3.51338e-19	1.000000
rad51	4.26872e-20	1.00000	4.26874e-20	1.000000
PAH1+H	1.96656e-20	1.00000	1.96656e-20	1.000000
rad34	9.89696e-22	1.00000	9.89696e-22	1.000000
rad58	8.72592e-22	1.00000	8.72593e-22	1.000000
rad65	2.85237e-22	1.00000	2.85237e-22	1.000000
rad42	1.27693e-23	1.00000	1.27693e-23	1.000000
rad41	3.58479e-24	1.00000	3.58480e-24	1.000000
rad47	3.10688e-29	1.00000	3.10689e-29	1.000000

0.100000000 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.29529e-17 (1.00)	4.29527e-17 (1.00)
Formation of rad11	3.53712e-17 (0.823)	3.53710e-17 (0.823)
Formation of rad6	6.75433e-18 (0.157)	6.75430e-18 (0.157)
H-abstraction	8.27372e-19 (0.0193)	8.27372e-19 (0.0193)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.804123	0.804123	0.804125	0.804125
Indene+H	0.170743	0.974866	0.170743	0.974869
Benzene+2-propynyl	0.0192623	0.994128	0.0192624	0.994131
C2H2+PhCH2	0.00289591	0.997024	0.00289592	0.997027
PhCCH+CH3	0.000915555	0.997940	0.000915559	0.997943
rad2	0.000679412	0.998619	0.000679415	0.998622
PhCHCCH2+H	0.000472006	0.999091	0.000472007	0.999094
PhCCCH3+H	0.000296912	0.999388	0.000296914	0.999391
rad28	0.000291750	0.999680	0.000291752	0.999683
rad7	8.47450e-05	0.999765	8.47453e-05	0.999768
rad26	6.68191e-05	0.999831	6.68194e-05	0.999834
rad1	4.69867e-05	0.999878	4.69868e-05	0.999881
rad10	4.02253e-05	0.999919	4.02255e-05	0.999922
Ph+MeAc	3.60135e-05	0.999955	3.60137e-05	0.999958
rad11	2.28059e-05	0.999977	2.28060e-05	0.999980
rad3	5.04865e-06	0.999983	5.04867e-06	0.999985
rad9	4.47102e-06	0.999987	4.47104e-06	0.999990
Phenyl+Allene	4.15331e-06	0.999991	0.00000	0.999990
rad8	3.65072e-06	0.999995	3.65073e-06	0.999994
rad4	2.61587e-06	0.999997	2.61588e-06	0.999996
PAH7+H	1.69670e-06	0.999999	1.69671e-06	0.999998
rad39	3.71595e-07	0.999999	3.71597e-07	0.999998
rad13	3.46172e-07	1.000000	3.46174e-07	0.999999
rad30	2.14403e-07	1.00000	2.14404e-07	0.999999
rad12	1.81104e-07	1.00000	1.81104e-07	0.999999
PhCH2CCH+H	8.07560e-08	1.00000	8.07564e-08	0.999999
rad23	5.61034e-08	1.00000	5.61037e-08	0.999999
PAH9+H	5.35352e-08	1.00000	5.35354e-08	0.999999
rad15	4.93819e-08	1.00000	4.93821e-08	0.999999
rad35	2.40809e-08	1.00000	2.40810e-08	0.999999
rad38	1.56658e-08	1.00000	1.56659e-08	0.999999
rad37	5.74560e-09	1.00000	5.74562e-09	0.999999
rad45	8.39837e-10	1.00000	8.39840e-10	0.999999
rad33	6.58101e-10	1.00000	6.58103e-10	0.999999
rad14	4.32653e-10	1.00000	4.32654e-10	0.999999
rad27	4.02897e-10	1.00000	4.02899e-10	0.999999
rad46	2.68452e-10	1.00000	2.68453e-10	0.999999
rad25	2.33874e-10	1.00000	2.33875e-10	0.999999
rad5	1.78756e-10	1.00000	1.78757e-10	0.999999
rad36	5.27792e-11	1.00000	5.27794e-11	0.999999
rad60syn	4.11329e-11	1.00000	4.11330e-11	0.999999

rad22	3.43334e-11	1.00000	3.43335e-11	0.999999
rad60anti	1.47968e-11	1.00000	1.47969e-11	0.999999
PAH3+H	4.54269e-13	1.00000	4.54271e-13	0.999999
rad19syn	1.47550e-13	1.00000	1.47550e-13	0.999999
rad59	1.35750e-13	1.00000	1.35750e-13	0.999999
rad31	2.28375e-14	1.00000	2.28376e-14	0.999999
rad50	1.63056e-14	1.00000	1.63057e-14	0.999999
rad20	5.98827e-15	1.00000	5.98829e-15	0.999999
rad21	4.42636e-15	1.00000	4.42638e-15	0.999999
rad54	2.99447e-15	1.00000	2.99448e-15	0.999999
PAH10+CH3	2.00345e-15	1.00000	2.00346e-15	0.999999
rad43	4.83457e-16	1.00000	4.83459e-16	0.999999
rad18	2.73063e-16	1.00000	2.73064e-16	0.999999
rad62	1.13926e-16	1.00000	1.13927e-16	0.999999
rad24	9.33300e-18	1.00000	9.33304e-18	0.999999
rad52	5.95085e-18	1.00000	5.95087e-18	0.999999
PhcycC3H3_A+H	5.35634e-18	1.00000	5.35637e-18	0.999999
rad70	3.43242e-18	1.00000	3.43242e-18	0.999999
rad55	1.53988e-18	1.00000	1.53989e-18	0.999999
rad51	1.55597e-19	1.00000	1.55598e-19	0.999999
PAH1+H	1.03477e-19	1.00000	1.03477e-19	0.999999
rad34	5.43505e-21	1.00000	5.43508e-21	0.999999
rad58	4.04268e-21	1.00000	4.04269e-21	0.999999
rad65	1.19017e-21	1.00000	1.19018e-21	0.999999
rad42	7.75635e-23	1.00000	7.75638e-23	0.999999
rad41	2.21158e-23	1.00000	2.21159e-23	0.999999
rad47	1.30514e-28	1.00000	1.30515e-28	0.999999

0.100000000 Pa, 230.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	6.25016e-17	(1.00)	6.25013e-17	(1.00)
Formation of rad11	5.06355e-17	(0.810)	5.06352e-17	(0.810)
Formation of rad6	1.04318e-17	(0.167)	1.04318e-17	(0.167)
H-abstraction	1.43428e-18	(0.0229)	1.43428e-18	(0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.784058	0.784058	0.784063	0.784063
Indene+H	0.186154	0.970212	0.186156	0.970219
Benzene+2-propynyl	0.0229478	0.993160	0.0229480	0.993166
C2H2+PhCH2	0.00339012	0.996550	0.00339014	0.996557
PhCCH+CH3	0.00116580	0.997716	0.00116581	0.997722
rad2	0.000665846	0.998381	0.000665851	0.998388
PhCHCCH2+H	0.000594167	0.998976	0.000594171	0.998982
PhCCCH3+H	0.000375764	0.999351	0.000375765	0.999358
rad28	0.000310256	0.999662	0.000310258	0.999668
rad7	8.23234e-05	0.999744	8.23239e-05	0.999751
rad26	6.89291e-05	0.999813	6.89295e-05	0.999820
Ph+MeAc	5.00557e-05	0.999863	5.00559e-05	0.999870
rad1	4.65060e-05	0.999909	4.65063e-05	0.999916
rad10	3.93780e-05	0.999949	3.93783e-05	0.999956
rad11	2.21327e-05	0.999971	2.21328e-05	0.999978
Phenyl+Allene	6.05161e-06	0.999977	0.00000	0.999978
rad9	5.78961e-06	0.999983	5.78965e-06	0.999984
rad3	4.93389e-06	0.999988	4.93392e-06	0.999989
rad8	4.72747e-06	0.999992	4.72750e-06	0.999993
rad4	2.56364e-06	0.999995	2.56366e-06	0.999996
PAH7+H	2.45916e-06	0.999997	2.45918e-06	0.999998
rad39	5.49209e-07	0.999998	5.49212e-07	0.999999
rad13	3.38655e-07	0.999998	3.38657e-07	0.999999
rad30	2.58511e-07	0.999999	2.58513e-07	0.999999
rad12	2.48617e-07	0.999999	2.48619e-07	1.000000
PhCH2CCH+H	1.36467e-07	0.999999	1.36468e-07	1.000000
PAH9+H	6.61669e-08	0.999999	6.61673e-08	1.000000
rad15	6.07710e-08	0.999999	6.07714e-08	1.000000
rad23	5.12404e-08	0.999999	5.12408e-08	1.000000
rad35	2.93287e-08	0.999999	2.93289e-08	1.000000
rad38	1.95736e-08	0.999999	1.95737e-08	1.000000
rad37	8.92191e-09	0.999999	8.92196e-09	1.000000
rad45	7.64642e-10	0.999999	7.64647e-10	1.000000
rad33	6.45712e-10	0.999999	6.45716e-10	1.000000
rad14	4.24318e-10	0.999999	4.24321e-10	1.000000
rad27	3.96453e-10	0.999999	3.96455e-10	1.000000
rad46	3.60681e-10	0.999999	3.60683e-10	1.000000
rad5	3.08633e-10	0.999999	3.08635e-10	1.000000
rad25	2.28920e-10	0.999999	2.28921e-10	1.000000
rad60syn	5.90380e-11	0.999999	5.90384e-11	1.000000
rad36	4.82204e-11	0.999999	4.82206e-11	1.000000

rad22	3.12030e-11	0.999999	3.12032e-11	1.00000
rad60anti	2.17116e-11	0.999999	2.17117e-11	1.00000
PAH3+H	8.66112e-13	0.999999	8.66117e-13	1.00000
rad19syn	3.72504e-13	0.999999	3.72507e-13	1.00000
rad59	2.52649e-13	0.999999	2.52651e-13	1.00000
rad50	3.16171e-14	0.999999	3.16173e-14	1.00000
rad31	2.40531e-14	0.999999	2.40533e-14	1.00000
rad54	8.67428e-15	0.999999	8.67433e-15	1.00000
rad20	6.26422e-15	0.999999	6.26426e-15	1.00000
PAH10+CH3	5.77539e-15	0.999999	5.77543e-15	1.00000
rad21	4.65097e-15	0.999999	4.65100e-15	1.00000
rad43	1.38115e-15	0.999999	1.38116e-15	1.00000
rad62	3.55511e-16	0.999999	3.55513e-16	1.00000
rad18	2.70773e-16	0.999999	2.70774e-16	1.00000
PhcycC3H3_A+H	2.12636e-17	0.999999	2.12638e-17	1.00000
rad52	1.52835e-17	0.999999	1.52836e-17	1.00000
rad70	1.30409e-17	0.999999	1.30410e-17	1.00000
rad24	8.60928e-18	0.999999	8.60933e-18	1.00000
rad55	5.93681e-18	0.999999	5.93684e-18	1.00000
rad51	5.12303e-19	0.999999	5.12306e-19	1.00000
PAH1+H	4.67491e-19	0.999999	4.67494e-19	1.00000
rad34	2.54809e-20	0.999999	2.54811e-20	1.00000
rad58	1.63925e-20	0.999999	1.63926e-20	1.00000
rad65	4.40937e-21	0.999999	4.40939e-21	1.00000
rad42	3.96402e-22	0.999999	3.96404e-22	1.00000
rad41	1.14554e-22	0.999999	1.14555e-22	1.00000
rad47	4.77060e-28	0.999999	4.77063e-28	1.00000

0.100000000 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83265e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04071e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55480e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.761972	0.761972	0.761979	0.761979
Indene+H	0.203181	0.965153	0.203183	0.965162
Benzene+2-propynyl	0.0268483	0.992002	0.0268485	0.992010
C2H2+PhCH2	0.00397742	0.995979	0.00397746	0.995988
PhCCH+CH3	0.00147203	0.997451	0.00147204	0.997460
PhCHCCH2+H	0.000741985	0.998193	0.000741992	0.998202
rad2	0.000649695	0.998843	0.000649700	0.998852
PhCCCH3+H	0.000471070	0.999314	0.000471073	0.999323
rad28	0.000326394	0.999640	0.000326397	0.999649
rad7	7.97267e-05	0.999720	7.97275e-05	0.999729
rad26	7.03767e-05	0.999790	7.03773e-05	0.999799
Ph+MeAc	6.85299e-05	0.999859	6.85305e-05	0.999868
rad1	4.58653e-05	0.999905	4.58657e-05	0.999914
rad10	3.83857e-05	0.999943	3.83861e-05	0.999952
rad11	2.14158e-05	0.999965	2.14160e-05	0.999973
Phenyl+Allene	8.72215e-06	0.999973	0.00000	0.999973
rad9	7.47468e-06	0.999981	7.47475e-06	0.999981
rad8	6.05759e-06	0.999987	6.05763e-06	0.999987
rad3	4.80323e-06	0.999992	4.80327e-06	0.999992
PAH7+H	3.49734e-06	0.999995	3.49737e-06	0.999995
rad4	2.50341e-06	0.999998	2.50344e-06	0.999998
rad39	7.95108e-07	0.999998	7.95114e-07	0.999999
rad12	3.35355e-07	0.999999	3.35358e-07	0.999999
rad13	3.30282e-07	0.999999	3.30285e-07	0.999999
rad30	3.12349e-07	0.999999	3.12350e-07	0.999999
PhCH2CCH+H	2.24441e-07	1.000000	2.24443e-07	1.000000
PAH9+H	8.20050e-08	1.000000	8.20057e-08	1.000000
rad15	7.49139e-08	1.000000	7.49146e-08	1.000000
rad23	4.68506e-08	1.000000	4.68511e-08	1.000000
rad35	3.58198e-08	1.000000	3.58201e-08	1.000000
rad38	2.45186e-08	1.000000	2.45187e-08	1.000000
rad37	1.34607e-08	1.000000	1.34608e-08	1.000000
rad45	6.97366e-10	1.000000	6.97373e-10	1.000000
rad33	6.31653e-10	1.000000	6.31659e-10	1.000000
rad5	5.14361e-10	1.000000	5.14366e-10	1.000000
rad46	4.84600e-10	1.000000	4.84604e-10	1.000000
rad14	4.14563e-10	1.000000	4.14565e-10	1.000000
rad27	3.88508e-10	1.000000	3.88512e-10	1.000000
rad25	2.23392e-10	1.000000	2.23394e-10	1.000000
rad60syn	8.41072e-11	1.000000	8.41078e-11	1.000000
rad36	4.41526e-11	1.000000	4.41530e-11	1.000000

rad60anti	3.15472e-11	1.000000	3.15475e-11	1.000000
rad22	2.83981e-11	1.000000	2.83984e-11	1.000000
PAH3+H	1.59184e-12	1.000000	1.59186e-12	1.000000
rad19syn	8.77221e-13	1.000000	8.77229e-13	1.000000
rad59	4.53986e-13	1.000000	4.53990e-13	1.000000
rad50	5.92403e-14	1.000000	5.92408e-14	1.000000
rad31	2.54040e-14	1.000000	2.54042e-14	1.000000
rad54	2.31432e-14	1.000000	2.31434e-14	1.000000
PAH10+CH3	1.53058e-14	1.000000	1.53059e-14	1.000000
rad20	6.55417e-15	1.000000	6.55422e-15	1.000000
rad21	4.88870e-15	1.000000	4.88873e-15	1.000000
rad43	3.62488e-15	1.000000	3.62491e-15	1.000000
rad62	1.01166e-15	1.000000	1.01167e-15	1.000000
rad18	2.68871e-16	1.000000	2.68873e-16	1.000000
PhcycC3H3_A+H	7.51464e-17	1.000000	7.51471e-17	1.000000
rad70	4.42874e-17	1.000000	4.42877e-17	1.000000
rad52	3.67954e-17	1.000000	3.67956e-17	1.000000
rad55	2.04338e-17	1.000000	2.04339e-17	1.000000
rad24	7.95671e-18	1.000000	7.95678e-18	1.000000
PAH1+H	1.84602e-18	1.000000	1.84604e-18	1.000000
rad51	1.54117e-18	1.000000	1.54118e-18	1.000000
rad34	1.03900e-19	1.000000	1.03900e-19	1.000000
rad58	5.90537e-20	1.000000	5.90541e-20	1.000000
rad65	1.46992e-20	1.000000	1.46994e-20	1.000000
rad42	1.74048e-21	1.000000	1.74050e-21	1.000000
rad41	5.08874e-22	1.000000	5.08877e-22	1.000000
rad47	1.54465e-27	1.000000	1.54467e-27	1.000000

0.100000000 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.21641e-16 (1.00)	1.21640e-16 (1.00)
Formation of rad11	9.54219e-17 (0.784)	9.54207e-17 (0.784)
Formation of rad6	2.24583e-17 (0.185)	2.24580e-17 (0.185)
H-abstraction	3.76121e-18 (0.0309)	3.76121e-18 (0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.737882	0.737882	0.737892	0.737892
Indene+H	0.221822	0.959705	0.221825	0.959717
Benzene+2-propynyl	0.0309205	0.990625	0.0309209	0.990638
C2H2+PhCH2	0.00466996	0.995295	0.00467001	0.995308
PhCCH+CH3	0.00184216	0.997137	0.00184219	0.997150
PhCHCCH2+H	0.000918724	0.998056	0.000918735	0.998069
rad2	0.000631126	0.998687	0.000631134	0.998700
PhCCCH3+H	0.000584769	0.999272	0.000584776	0.999285
rad28	0.000339725	0.999612	0.000339729	0.999624
Ph+MeAc	9.24183e-05	0.999704	9.24194e-05	0.999717
rad7	7.69560e-05	0.999781	7.69569e-05	0.999794
rad26	7.11550e-05	0.999852	7.11558e-05	0.999865
rad1	4.50711e-05	0.999897	4.50717e-05	0.999910
rad10	3.72581e-05	0.999934	3.72586e-05	0.999947
rad11	2.06552e-05	0.999955	2.06554e-05	0.999968
Phenyl+Allene	1.24233e-05	0.999968	0.00000	0.999968
rad9	9.60532e-06	0.999977	9.60544e-06	0.999977
rad8	7.67803e-06	0.999985	7.67812e-06	0.999985
PAH7+H	4.88365e-06	0.999990	4.88370e-06	0.999990
rad3	4.65765e-06	0.999994	4.65770e-06	0.999995
rad4	2.43562e-06	0.999997	2.43565e-06	0.999997
rad39	1.12852e-06	0.999998	1.12853e-06	0.999998
rad12	4.44771e-07	0.999998	4.44776e-07	0.999999
rad30	3.77549e-07	0.999999	3.77553e-07	0.999999
PhCH2CCH+H	3.59853e-07	0.999999	3.59858e-07	0.999999
rad13	3.21046e-07	0.999999	3.21050e-07	1.000000
PAH9+H	1.01723e-07	1.000000	1.01724e-07	1.000000
rad15	9.23365e-08	1.000000	9.23376e-08	1.000000
rad35	4.37920e-08	1.000000	4.37926e-08	1.000000
rad23	4.28698e-08	1.000000	4.28703e-08	1.000000
rad38	3.07311e-08	1.000000	3.07314e-08	1.000000
rad37	1.97787e-08	1.000000	1.97789e-08	1.000000
rad5	8.29824e-10	1.000000	8.29834e-10	1.000000
rad46	6.49639e-10	1.000000	6.49646e-10	1.000000
rad45	6.36886e-10	1.000000	6.36894e-10	1.000000
rad33	6.15902e-10	1.000000	6.15910e-10	1.000000
rad14	4.03446e-10	1.000000	4.03451e-10	1.000000
rad27	3.79142e-10	1.000000	3.79146e-10	1.000000
rad25	2.17283e-10	1.000000	2.17286e-10	1.000000
rad60syn	1.18752e-10	1.000000	1.18753e-10	1.000000
rad60anti	4.53401e-11	1.000000	4.53407e-11	1.000000

rad36	4.05052e-11	1.000000	4.05057e-11	1.00000
rad22	2.58720e-11	1.000000	2.58724e-11	1.00000
PAH3+H	2.82923e-12	1.000000	2.82927e-12	1.00000
rad19syn	1.94221e-12	1.000000	1.94223e-12	1.00000
rad59	7.89969e-13	1.000000	7.89980e-13	1.00000
rad50	1.07538e-13	1.000000	1.07540e-13	1.00000
rad54	5.74004e-14	1.000000	5.74012e-14	1.00000
PAH10+CH3	3.76442e-14	1.000000	3.76447e-14	1.00000
rad31	2.69232e-14	1.000000	2.69235e-14	1.00000
rad43	8.82424e-15	1.000000	8.82435e-15	1.00000
rad20	6.85717e-15	1.000000	6.85725e-15	1.00000
rad21	5.13918e-15	1.000000	5.13925e-15	1.00000
rad62	2.65259e-15	1.000000	2.65263e-15	1.00000
rad18	2.67217e-16	1.000000	2.67220e-16	1.00000
PhcycC3H3_A+H	2.39370e-16	1.000000	2.39373e-16	1.00000
rad70	1.36095e-16	1.000000	1.36097e-16	1.00000
rad52	8.36275e-17	1.000000	8.36285e-17	1.00000
rad55	6.35618e-17	1.000000	6.35626e-17	1.00000
rad24	7.36535e-18	1.000000	7.36544e-18	1.00000
PAH1+H	6.46761e-18	1.000000	6.46769e-18	1.00000
rad51	4.27574e-18	1.000000	4.27580e-18	1.00000
rad34	3.74293e-19	1.000000	3.74298e-19	1.00000
rad58	1.91389e-19	1.000000	1.91392e-19	1.00000
rad65	4.45789e-20	1.000000	4.45795e-20	1.00000
rad42	6.68225e-21	1.000000	6.68233e-21	1.00000
rad41	1.97369e-21	1.000000	1.97370e-21	1.00000
rad47	4.49738e-27	1.000000	4.49744e-27	1.00000

0.100000000 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.63720e-16 (1.00)	1.63717e-16 (1.00)
Formation of rad11	1.26419e-16 (0.772)	1.26416e-16 (0.772)
Formation of rad6	3.15515e-17 (0.193)	3.15509e-17 (0.193)
H-abstraction	5.75028e-18 (0.0351)	5.75028e-18 (0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.711854	0.711854	0.711867	0.711867
Indene+H	0.242029	0.953883	0.242033	0.953899
Benzene+2-propynyl	0.0351226	0.989005	0.0351232	0.989023
C2H2+PhCH2	0.00547965	0.994485	0.00547974	0.994502
PhCCH+CH3	0.00228392	0.996769	0.00228396	0.996786
PhCHCCH2+H	0.00112747	0.997896	0.00112749	0.997914
PhCCCH3+H	0.000718607	0.998615	0.000718619	0.998632
rad2	0.000610330	0.999225	0.000610342	0.999243
rad28	0.000349908	0.999575	0.000349914	0.999593
Ph+MeAc	0.000122784	0.999698	0.000122785	0.999715
rad7	7.40163e-05	0.999772	7.40176e-05	0.999789
rad26	7.12743e-05	0.999843	7.12756e-05	0.999861
rad1	4.41308e-05	0.999887	4.41315e-05	0.999905
rad10	3.60061e-05	0.999923	3.60067e-05	0.999941
rad11	1.98522e-05	0.999943	1.98524e-05	0.999961
Phenyl+Allene	1.74758e-05	0.999961	0.00000	0.999961
rad9	1.22693e-05	0.999973	1.22696e-05	0.999973
rad8	9.62459e-06	0.999983	9.62476e-06	0.999983
PAH7+H	6.70077e-06	0.999989	6.70090e-06	0.999989
rad3	4.49825e-06	0.999994	4.49833e-06	0.999994
rad4	2.36075e-06	0.999996	2.36078e-06	0.999996
rad39	1.57174e-06	0.999998	1.57177e-06	0.999998
rad12	5.80368e-07	0.999998	5.80377e-07	0.999998
PhCH2CCH+H	5.63317e-07	0.999999	5.63327e-07	0.999999
rad30	4.55837e-07	0.999999	4.55844e-07	0.999999
rad13	3.10961e-07	1.000000	3.10966e-07	1.000000
PAH9+H	1.26078e-07	1.000000	1.26079e-07	1.000000
rad15	1.13610e-07	1.000000	1.13612e-07	1.000000
rad35	5.35059e-08	1.000000	5.35070e-08	1.000000
rad23	3.92475e-08	1.000000	3.92481e-08	1.000000
rad38	3.84730e-08	1.000000	3.84737e-08	1.000000
rad37	2.83619e-08	1.000000	2.83624e-08	1.000000
rad5	1.29927e-09	1.000000	1.29928e-09	1.000000
rad46	8.67318e-10	1.000000	8.67333e-10	1.000000
rad33	5.98471e-10	1.000000	5.98481e-10	1.000000
rad45	5.82315e-10	1.000000	5.82325e-10	1.000000
rad14	3.91046e-10	1.000000	3.91054e-10	1.000000
rad27	3.68440e-10	1.000000	3.68447e-10	1.000000
rad25	2.10600e-10	1.000000	2.10604e-10	1.000000
rad60syn	1.65985e-10	1.000000	1.65988e-10	1.000000
rad60anti	6.44023e-11	1.000000	6.44034e-11	1.000000

rad36	3.72225e-11	1.000000	3.72231e-11	1.00000
rad22	2.35877e-11	1.000000	2.35882e-11	1.00000
PAH3+H	4.87582e-12	1.000000	4.87590e-12	1.00000
rad19syn	4.06952e-12	1.000000	4.06960e-12	1.00000
rad59	1.33454e-12	1.000000	1.33457e-12	1.00000
rad50	1.89558e-13	1.000000	1.89562e-13	1.00000
rad54	1.33361e-13	1.000000	1.33362e-13	1.00000
PAH10+CH3	8.66011e-14	1.000000	8.66027e-14	1.00000
rad31	2.86516e-14	1.000000	2.86521e-14	1.00000
rad43	2.00855e-14	1.000000	2.00858e-14	1.00000
rad20	7.17223e-15	1.000000	7.17235e-15	1.00000
rad62	6.46402e-15	1.000000	6.46413e-15	1.00000
rad21	5.40211e-15	1.000000	5.40220e-15	1.00000
PhcycC3H3_A+H	6.94493e-16	1.000000	6.94505e-16	1.00000
rad70	3.82347e-16	1.000000	3.82355e-16	1.00000
rad18	2.65689e-16	1.000000	2.65693e-16	1.00000
rad55	1.80538e-16	1.000000	1.80542e-16	1.00000
rad52	1.80454e-16	1.000000	1.80458e-16	1.00000
PAH1+H	2.03625e-17	1.000000	2.03629e-17	1.00000
rad51	1.10233e-17	1.000000	1.10235e-17	1.00000
rad24	6.82741e-18	1.000000	6.82753e-18	1.00000
rad34	1.20731e-18	1.000000	1.20733e-18	1.00000
rad58	5.63984e-19	1.000000	5.63994e-19	1.00000
rad65	1.24125e-19	1.000000	1.24127e-19	1.00000
rad42	2.27723e-20	1.000000	2.27727e-20	1.00000
rad41	6.78627e-21	1.000000	6.78639e-21	1.00000
rad47	1.19258e-26	1.000000	1.19261e-26	1.00000

0.100000000 Pa, 270.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.15887e-16	(1.00)	2.15882e-16	(1.00)
Formation of rad11	1.64133e-16	(0.760)	1.64128e-16	(0.760)
Formation of rad6	4.32452e-17	(0.200)	4.32441e-17	(0.200)
H-abstraction	8.50919e-18	(0.0394)	8.50919e-18	(0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.683998	0.683998	0.684015	0.684015
Indene+H	0.263704	0.947702	0.263710	0.947725
Benzene+2-propynyl	0.0394150	0.987117	0.0394160	0.987141
C2H2+PhCH2	0.00641773	0.993534	0.00641788	0.993559
PhCCH+CH3	0.00280446	0.996339	0.00280452	0.996363
PhCHCCH2+H	0.00137096	0.997710	0.00137098	0.997734
PhCCCH3+H	0.000874032	0.998584	0.000874054	0.998608
rad2	0.000587523	0.999171	0.000587536	0.999196
rad28	0.000356712	0.999528	0.000356722	0.999552
Ph+MeAc	0.000160741	0.999689	0.000160745	0.999713
rad7	7.09185e-05	0.999760	7.09201e-05	0.999784
rad26	7.07617e-05	0.999830	7.07634e-05	0.999855
rad1	4.30526e-05	0.999874	4.30537e-05	0.999898
rad10	3.46420e-05	0.999908	3.46428e-05	0.999932
Phenyl+Allene	2.42693e-05	0.999932	0.00000	0.999932
rad11	1.90093e-05	0.999951	1.90098e-05	0.999951
rad9	1.55619e-05	0.999967	1.55622e-05	0.999967
rad8	1.19302e-05	0.999979	1.19305e-05	0.999979
PAH7+H	9.04108e-06	0.999988	9.04130e-06	0.999988
rad3	4.32636e-06	0.999992	4.32646e-06	0.999992
rad4	2.27936e-06	0.999995	2.27942e-06	0.999995
rad39	2.14999e-06	0.999997	2.15005e-06	0.999997
PhCH2CCH+H	8.62170e-07	0.999998	8.62191e-07	0.999998
rad12	7.45558e-07	0.999998	7.45576e-07	0.999998
rad30	5.48983e-07	0.999999	5.48996e-07	0.999999
rad13	3.00058e-07	0.999999	3.00064e-07	0.999999
PAH9+H	1.55901e-07	0.999999	1.55905e-07	0.999999
rad15	1.39343e-07	0.999999	1.39346e-07	1.000000
rad35	6.52417e-08	1.000000	6.52432e-08	1.000000
rad38	4.80371e-08	1.000000	4.80383e-08	1.000000
rad37	3.97611e-08	1.000000	3.97621e-08	1.000000
rad23	3.59440e-08	1.000000	3.59449e-08	1.000000
rad5	1.97874e-09	1.000000	1.97878e-09	1.000000
rad46	1.15149e-09	1.000000	1.15152e-09	1.000000
rad33	5.79409e-10	1.000000	5.79423e-10	1.000000
rad45	5.32959e-10	1.000000	5.32972e-10	1.000000
rad14	3.77459e-10	1.000000	3.77468e-10	1.000000
rad27	3.56508e-10	1.000000	3.56517e-10	1.000000
rad60syn	2.29499e-10	1.000000	2.29505e-10	1.000000
rad25	2.03363e-10	1.000000	2.03367e-10	1.000000
rad60anti	9.03635e-11	1.000000	9.03657e-11	1.000000

rad36	3.42606e-11	1.000000	3.42614e-11	1.000000
rad22	2.15161e-11	1.000000	2.15166e-11	1.000000
PAH3+H	8.16674e-12	1.000000	8.16693e-12	1.000000
rad19syn	8.11382e-12	1.000000	8.11401e-12	1.000000
rad59	2.19365e-12	1.000000	2.19370e-12	1.000000
rad50	3.25090e-13	1.000000	3.25097e-13	1.000000
rad54	2.92077e-13	1.000000	2.92085e-13	1.000000
PAH10+CH3	1.87583e-13	1.000000	1.87588e-13	1.000000
rad43	4.30372e-14	1.000000	4.30382e-14	1.000000
rad31	3.06405e-14	1.000000	3.06412e-14	1.000000
rad62	1.47457e-14	1.000000	1.47461e-14	1.000000
rad20	7.49835e-15	1.000000	7.49853e-15	1.000000
rad21	5.67710e-15	1.000000	5.67723e-15	1.000000
PhcycC3H3_A+H	1.85177e-15	1.000000	1.85181e-15	1.000000
rad70	9.90622e-16	1.000000	9.90650e-16	1.000000
rad55	4.72353e-16	1.000000	4.72364e-16	1.000000
rad52	3.71400e-16	1.000000	3.71409e-16	1.000000
rad18	2.64182e-16	1.000000	2.64188e-16	1.000000
PAH1+H	5.82441e-17	1.000000	5.82455e-17	1.000000
rad51	2.65757e-17	1.000000	2.65764e-17	1.000000
rad24	6.33688e-18	1.000000	6.33704e-18	1.000000
rad34	3.52713e-18	1.000000	3.52722e-18	1.000000
rad58	1.52491e-18	1.000000	1.52495e-18	1.000000
rad65	3.19773e-19	1.000000	3.19780e-19	1.000000
rad42	6.97753e-20	1.000000	6.97769e-20	1.000000
rad41	2.09573e-20	1.000000	2.09577e-20	1.000000
rad47	2.91157e-26	1.000000	2.91164e-26	1.000000

0.100000000 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79491e-16 (1.00)	2.79482e-16 (1.00)
Formation of rad11	2.09281e-16 (0.749)	2.09274e-16 (0.749)
Formation of rad6	5.79792e-17 (0.207)	5.79772e-17 (0.207)
H-abstraction	1.22310e-17 (0.0438)	1.22310e-17 (0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.654474	0.654474	0.654496	0.654496
Indene+H	0.286703	0.941178	0.286712	0.941209
Benzene+2-propynyl	0.00437616	0.984939	0.00437630	0.984972
C2H2+PhCH2	0.00749436	0.992434	0.00749460	0.992466
PhCCH+CH3	0.00340999	0.995844	0.00341011	0.995876
PhCHCCH2+H	0.00165147	0.997495	0.00165153	0.997528
PhCCCH3+H	0.00105210	0.998547	0.00105214	0.998580
rad2	0.000562941	0.999110	0.000562961	0.999143
rad28	0.000360030	0.999470	0.000360041	0.999503
Ph+MeAc	0.000207422	0.999678	0.000207430	0.999711
rad26	6.96577e-05	0.999747	6.96600e-05	0.999780
rad7	6.76775e-05	0.999815	6.76798e-05	0.999848
rad1	4.18464e-05	0.999857	4.18478e-05	0.999890
Phenyl+Allene	3.32691e-05	0.999890	0.000000	0.999890
rad10	3.31793e-05	0.999923	3.31805e-05	0.999923
rad9	1.95840e-05	0.999943	1.95847e-05	0.999943
rad11	1.81306e-05	0.999961	1.81311e-05	0.999961
rad8	1.46230e-05	0.999976	1.46234e-05	0.999975
PAH7+H	1.20055e-05	0.999988	1.20059e-05	0.999987
rad3	4.14347e-06	0.999992	4.14360e-06	0.999991
rad39	2.89127e-06	0.999995	2.89136e-06	0.999994
rad4	2.19214e-06	0.999997	2.19221e-06	0.999997
PhCH2CCH+H	1.29184e-06	0.999998	1.29189e-06	0.999998
rad12	9.43509e-07	0.999999	9.43541e-07	0.999999
rad30	6.58756e-07	1.000000	6.58778e-07	0.999999
rad13	2.88390e-07	1.000000	2.88400e-07	1.000000
PAH9+H	1.92098e-07	1.000000	1.92104e-07	1.000000
rad15	1.70167e-07	1.000000	1.70173e-07	1.000000
rad35	7.92944e-08	1.000000	7.92970e-08	1.000000
rad38	5.97454e-08	1.000000	5.97474e-08	1.000000
rad37	5.45830e-08	1.000000	5.45848e-08	1.000000
rad23	3.29288e-08	1.000000	3.29299e-08	1.000000
rad5	2.93724e-09	1.000000	2.93734e-09	1.000000
rad46	1.51857e-09	1.000000	1.51863e-09	1.000000
rad33	5.58807e-10	1.000000	5.58825e-10	1.000000
rad45	4.88274e-10	1.000000	4.88290e-10	1.000000
rad14	3.62798e-10	1.000000	3.62810e-10	1.000000
rad27	3.43464e-10	1.000000	3.43475e-10	1.000000
rad60syn	3.13742e-10	1.000000	3.13753e-10	1.000000
rad25	1.95605e-10	1.000000	1.95612e-10	1.000000
rad60anti	1.25211e-10	1.000000	1.25215e-10	1.000000

rad36	3.15852e-11	1.00000	3.15863e-11	1.00000
rad22	1.96344e-11	1.00000	1.96351e-11	1.00000
rad19syn	1.54636e-11	1.00000	1.54642e-11	1.00000
PAH3+H	1.33210e-11	1.00000	1.33214e-11	1.00000
rad59	3.51509e-12	1.00000	3.51521e-12	1.00000
rad54	6.06185e-13	1.00000	6.06205e-13	1.00000
rad50	5.43327e-13	1.00000	5.43345e-13	1.00000
PAH10+CH3	3.84692e-13	1.00000	3.84705e-13	1.00000
rad43	8.73044e-14	1.00000	8.73073e-14	1.00000
rad31	3.29552e-14	1.00000	3.29563e-14	1.00000
rad62	3.16811e-14	1.00000	3.16821e-14	1.00000
rad20	7.83456e-15	1.00000	7.83482e-15	1.00000
rad21	5.96386e-15	1.00000	5.96406e-15	1.00000
PhcycC3H3_A+H	4.57280e-15	1.00000	4.57295e-15	1.00000
rad70	2.38468e-15	1.00000	2.38476e-15	1.00000
rad55	1.14697e-15	1.00000	1.14701e-15	1.00000
rad52	7.31761e-16	1.00000	7.31786e-16	1.00000
rad18	2.62608e-16	1.00000	2.62616e-16	1.00000
PAH1+H	1.52798e-16	1.00000	1.52803e-16	1.00000
rad51	6.02335e-17	1.00000	6.02355e-17	1.00000
rad34	9.42597e-18	1.00000	9.42628e-18	1.00000
rad24	5.88925e-18	1.00000	5.88944e-18	1.00000
rad58	3.81303e-18	1.00000	3.81316e-18	1.00000
rad65	7.67320e-19	1.00000	7.67346e-19	1.00000
rad42	1.94362e-19	1.00000	1.94369e-19	1.00000
rad41	5.87842e-20	1.00000	5.87861e-20	1.00000
rad47	6.60551e-26	1.00000	6.60573e-26	1.00000

0.100000000 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.55893e-16 (1.00)	3.55877e-16 (1.00)
Formation of rad11	2.62555e-16 (0.738)	2.62543e-16 (0.738)
Formation of rad6	7.62093e-17 (0.214)	7.62057e-17 (0.214)
H-abstraction	1.71289e-17 (0.0481)	1.71289e-17 (0.0481)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.623489	0.623489	0.623517	0.623517
Indene+H	0.310834	0.934323	0.310848	0.934365
Benzene+2-propynyl	0.0481294	0.982452	0.0481315	0.982496
C2H2+PhCH2	0.00871819	0.991170	0.00871858	0.991215
PhCCH+CH3	0.00410558	0.995276	0.00410577	0.995320
PhCHCCH2+H	0.00197070	0.997247	0.00197079	0.997291
PhCCCH3+H	0.00125339	0.998500	0.00125344	0.998545
rad2	0.000536852	0.999037	0.000536876	0.999082
rad28	0.000359866	0.999397	0.000359882	0.999441
Ph+MeAc	0.000263937	0.999661	0.000263948	0.999705
rad26	6.80141e-05	0.999729	6.80172e-05	0.999773
rad7	6.43136e-05	0.999793	6.43165e-05	0.999838
Phenyl+Allene	4.50199e-05	0.999838	0.000000	0.999838
rad1	4.05232e-05	0.999879	4.05251e-05	0.999878
rad10	3.16331e-05	0.999910	3.16345e-05	0.999910
rad9	2.44411e-05	0.999935	2.44422e-05	0.999934
rad8	1.77250e-05	0.999952	1.77258e-05	0.999952
rad11	1.72211e-05	0.999970	1.72220e-05	0.999969
PAH7+H	1.57021e-05	0.999985	1.57028e-05	0.999985
rad3	3.95127e-06	0.999989	3.95145e-06	0.999989
rad39	3.82589e-06	0.999993	3.82606e-06	0.999993
rad4	2.09985e-06	0.999995	2.09995e-06	0.999995
PhCH2CCH+H	1.89723e-06	0.999997	1.89731e-06	0.999997
rad12	1.17699e-06	0.999998	1.17704e-06	0.999998
rad30	7.86883e-07	0.999999	7.86919e-07	0.999999
rad13	2.76033e-07	0.999999	2.76046e-07	0.999999
PAH9+H	2.35630e-07	1.000000	2.35641e-07	0.999999
rad15	2.06726e-07	1.000000	2.06735e-07	0.999999
rad35	9.59695e-08	1.000000	9.59740e-08	1.000000
rad38	7.39468e-08	1.000000	7.39501e-08	1.000000
rad37	7.34769e-08	1.000000	7.34802e-08	1.000000
rad23	3.01784e-08	1.000000	3.01798e-08	1.000000
rad5	4.25744e-09	1.000000	4.25763e-09	1.000000
rad46	1.98772e-09	1.000000	1.98781e-09	1.000000
rad33	5.36791e-10	1.000000	5.36816e-10	1.000000
rad45	4.47839e-10	1.000000	4.47860e-10	1.000000
rad60syn	4.23974e-10	1.000000	4.23993e-10	1.000000
rad14	3.47194e-10	1.000000	3.47210e-10	1.000000
rad27	3.29441e-10	1.000000	3.29456e-10	1.000000
rad25	1.87377e-10	1.000000	1.87386e-10	1.000000
rad60anti	1.71324e-10	1.000000	1.71333e-10	1.000000

rad36	2.91699e-11	1.00000	2.91712e-11	1.000000
rad19syn	2.82776e-11	1.00000	2.82789e-11	1.000000
PAH3+H	2.11955e-11	1.00000	2.11965e-11	1.000000
rad22	1.79250e-11	1.00000	1.79258e-11	1.000000
rad59	5.49981e-12	1.00000	5.50006e-12	1.000000
rad54	1.19743e-12	1.00000	1.19748e-12	1.000000
rad50	8.86150e-13	1.00000	8.86190e-13	1.000000
PAH10+CH3	7.50440e-13	1.00000	7.50474e-13	1.000000
rad43	1.68484e-13	1.00000	1.68491e-13	1.000000
rad62	6.44388e-14	1.00000	6.44417e-14	1.000000
rad31	3.56793e-14	1.00000	3.56809e-14	1.000000
PhcycC3H3_A+H	1.05290e-14	1.00000	1.05295e-14	1.000000
rad20	8.17999e-15	1.00000	8.18036e-15	1.000000
rad21	6.26221e-15	1.00000	6.26249e-15	1.000000
rad70	5.36821e-15	1.00000	5.36845e-15	1.000000
rad55	2.60177e-15	1.00000	2.60188e-15	1.000000
rad52	1.38433e-15	1.00000	1.38439e-15	1.000000
PAH1+H	3.70688e-16	1.00000	3.70704e-16	1.000000
rad18	2.60892e-16	1.00000	2.60903e-16	1.000000
rad51	1.28931e-16	1.00000	1.28936e-16	1.000000
rad34	2.32425e-17	1.00000	2.32436e-17	1.000000
rad58	8.87872e-18	1.00000	8.87911e-18	1.000000
rad24	5.48119e-18	1.00000	5.48143e-18	1.000000
rad65	1.72501e-18	1.00000	1.72509e-18	1.000000
rad42	4.96937e-19	1.00000	4.96960e-19	1.000000
rad41	1.51227e-19	1.00000	1.51234e-19	1.000000
rad47	1.40375e-25	1.00000	1.40382e-25	1.000000

0.100000000 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34395e-16 (1.00)	6.34351e-16 (1.00)
Formation of rad11	4.51153e-16 (0.711)	4.51120e-16 (0.711)
Formation of rad6	1.51589e-16 (0.239)	1.51578e-16 (0.239)
H-abstraction	3.16530e-17 (0.0499)	3.16530e-17 (0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.493233	0.493233	0.493267	0.493267
Indene+H	0.425312	0.918545	0.425342	0.918609
Benzene+2-propynyl	0.0498949	0.968439	0.0498983	0.968507
C2H2+PhCH2	0.0168993	0.985339	0.0169005	0.985407
PhCCH+CH3	0.00763530	0.992974	0.00763583	0.993043
PhCHCCH2+H	0.00328218	0.996256	0.00328240	0.996326
PhCCCH3+H	0.00219179	0.998448	0.00219194	0.998518
Ph+MeAc	0.000501107	0.998949	0.000501142	0.999019
rad2	0.000417179	0.999366	0.000417208	0.999436
rad28	0.000327708	0.999694	0.000327731	0.999764
Phenyl+Allene	6.97323e-05	0.999764	0.00000	0.999764
rad26	5.55665e-05	0.999819	5.55704e-05	0.999819
rad7	5.29976e-05	0.999872	5.30012e-05	0.999872
PAH7+H	3.80009e-05	0.999910	3.80036e-05	0.999910
rad1	3.14360e-05	0.999942	3.14383e-05	0.999942
rad10	2.42168e-05	0.999966	2.42185e-05	0.999966
rad11	1.37233e-05	0.999980	1.37242e-05	0.999980
rad39	7.95465e-06	0.999988	7.95520e-06	0.999988
PhCH2CCH+H	4.56461e-06	0.999992	4.56492e-06	0.999992
rad3	3.26798e-06	0.999995	3.26822e-06	0.999995
rad4	1.62517e-06	0.999997	1.62529e-06	0.999997
rad30	1.24610e-06	0.999998	1.24618e-06	0.999998
PAH9+H	4.78914e-07	0.999999	4.78947e-07	0.999999
rad19anti	4.43797e-07	0.999999	4.43828e-07	0.999999
rad13	2.55178e-07	1.000000	2.55195e-07	1.000000
rad35	1.67380e-07	1.000000	1.67392e-07	1.000000
rad37	1.57091e-07	1.000000	1.57102e-07	1.000000
rad38	1.30458e-07	1.000000	1.30467e-07	1.000000
rad23	5.40513e-08	1.00000	5.40551e-08	1.00000
rad46	3.94482e-09	1.00000	3.94510e-09	1.00000
rad45	9.24502e-10	1.00000	9.24566e-10	1.00000
rad60syn	8.02640e-10	1.00000	8.02696e-10	1.00000
rad33	6.06689e-10	1.00000	6.06731e-10	1.00000
rad27	3.47081e-10	1.00000	3.47105e-10	1.00000
rad14	3.40320e-10	1.00000	3.40344e-10	1.00000
rad60anti	3.35291e-10	1.00000	3.35315e-10	1.00000
rad25	2.26264e-10	1.00000	2.26279e-10	1.00000
rad19syn	7.41119e-11	1.00000	7.41171e-11	1.00000
PAH3+H	5.87612e-11	1.00000	5.87652e-11	1.00000
rad22	5.24363e-11	1.00000	5.24400e-11	1.00000
rad9	3.34265e-11	1.00000	3.34289e-11	1.00000

rad36	3.15097e-11	1.00000	3.15118e-11	1.00000
rad59	1.25586e-11	1.00000	1.25595e-11	1.00000
rad54	3.48816e-12	1.00000	3.48840e-12	1.00000
PAH10+CH3	2.23030e-12	1.00000	2.23046e-12	1.00000
rad50	2.19923e-12	1.00000	2.19938e-12	1.00000
rad67	7.44919e-13	1.00000	7.44971e-13	1.00000
rad43	4.40768e-13	1.00000	4.40799e-13	1.00000
rad20	2.10883e-13	1.00000	2.10899e-13	1.00000
rad21	2.07436e-13	1.00000	2.07451e-13	1.00000
rad62	1.81439e-13	1.00000	1.81451e-13	1.00000
rad31	8.95024e-14	1.00000	8.95086e-14	1.00000
PhcycC3H3_A+H	5.20731e-14	1.00000	5.20768e-14	1.00000
rad70	2.06995e-14	1.00000	2.07009e-14	1.00000
rad18	1.90291e-14	1.00000	1.90304e-14	1.00000
rad15	1.90104e-14	1.00000	1.90117e-14	1.00000
rad55	9.05749e-15	1.00000	9.05812e-15	1.00000
rad52	4.11065e-15	1.00000	4.11093e-15	1.00000
PAH1+H	2.46956e-15	1.00000	2.46973e-15	1.00000
rad5	8.48876e-16	1.00000	8.48935e-16	1.00000
rad51	4.36386e-16	1.00000	4.36416e-16	1.00000
rad34	1.64560e-16	1.00000	1.64571e-16	1.00000
rad58	3.16382e-17	1.00000	3.16404e-17	1.00000
rad24	1.46283e-17	1.00000	1.46294e-17	1.00000
rad65	6.76329e-18	1.00000	6.76376e-18	1.00000
rad42	5.14284e-18	1.00000	5.14319e-18	1.00000
rad41	1.60548e-18	1.00000	1.60559e-18	1.00000
rad12	3.47027e-19	1.00000	3.47051e-19	1.00000
rad53	1.12015e-19	1.00000	1.12024e-19	1.00000
rad64	2.68931e-20	1.00000	2.68950e-20	1.00000
rad56	3.14577e-22	1.00000	3.14600e-22	1.00000
rad61	3.65911e-23	1.00000	3.65936e-23	1.00000
rad68syn	3.32152e-23	1.00000	3.32175e-23	1.00000
rad68anti	2.39388e-23	1.00000	2.39405e-23	1.00000
rad47	3.08852e-25	1.00000	3.08873e-25	1.00000
rad40syn	5.41865e-26	1.00000	5.41902e-26	1.00000
rad40anti	1.36192e-26	1.00000	1.36201e-26	1.00000
PAH8+H	1.22744e-26	1.00000	1.22752e-26	1.00000
rad73	1.16567e-26	1.00000	1.16575e-26	1.00000
rad71	1.53579e-28	1.00000	1.53590e-28	1.00000
rad72	1.40556e-34	1.00000	1.40566e-34	1.00000
rad8	7.67749e-37	1.00000	7.67803e-37	1.00000

0.100000000 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.11288e-15 (1.00)	5.10993e-15 (1.00)
Formation of rad11	3.08094e-15 (0.603)	3.07897e-15 (0.603)
Formation of rad6	1.54092e-15 (0.301)	1.53994e-15 (0.301)
H-abstraction	4.91025e-16 (0.0960)	4.91025e-16 (0.0961)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.620235	0.620235	0.620594	0.620594
rad6	0.202699	0.822935	0.202817	0.823411
Benzene+2-propynyl	0.0960368	0.918971	0.0960923	0.919503
C2H2+PhCH2	0.0429192	0.961891	0.0429440	0.962447
PhCCH+CH3	0.0210873	0.982978	0.0210996	0.983547
PhCHCCH2+H	0.00850487	0.991483	0.00850978	0.992057
PhCCCH3+H	0.00529232	0.996775	0.00529537	0.997352
Ph+MeAc	0.00192775	0.998703	0.00192887	0.999281
Phenyl+Allene	0.000578302	0.999281	0.000000	0.999281
PAH7+H	0.000184960	0.999466	0.000185067	0.999466
rad2	0.000176999	0.999643	0.000177101	0.999643
rad28	0.000161479	0.999805	0.000161573	0.999805
PhCH2CCH+H	6.08103e-05	0.999865	6.08455e-05	0.999866
rad39	4.23711e-05	0.999908	4.23956e-05	0.999908
rad26	2.45760e-05	0.999932	2.45903e-05	0.999933
rad7	2.21255e-05	0.999954	2.21383e-05	0.999955
rad1	1.64721e-05	0.999971	1.64817e-05	0.999971
rad10	1.03824e-05	0.999981	1.03883e-05	0.999982
rad11	5.81802e-06	0.999987	5.82138e-06	0.999987
rad30	3.96451e-06	0.999991	3.96681e-06	0.999991
rad19anti	2.25061e-06	0.999993	2.25191e-06	0.999994
PAH9+H	1.97491e-06	0.999995	1.97605e-06	0.999996
rad3	1.51787e-06	0.999997	1.51875e-06	0.999997
rad37	8.54286e-07	0.999998	8.54780e-07	0.999998
rad4	7.99365e-07	0.999999	7.99827e-07	0.999999
rad35	6.25222e-07	0.999999	6.25584e-07	0.999999
rad38	5.82560e-07	1.000000	5.82898e-07	1.000000

rad13	1.16824e-07	1.000000	1.16891e-07	1.000000
rad23	9.44253e-08	1.000000	9.44800e-08	1.000000
rad46	2.70384e-08	1.000000	2.70540e-08	1.000000
rad60syn	6.24285e-09	1.000000	6.24646e-09	1.000000
rad19syn	4.59097e-09	1.000000	4.59362e-09	1.000000
rad45	2.93563e-09	1.000000	2.93732e-09	1.000000
rad60anti	2.85359e-09	1.000000	2.85525e-09	1.000000
PAH3+H	1.42200e-09	1.000000	1.42281e-09	1.000000
rad54	4.17645e-10	1.000000	4.17886e-10	1.000000
rad33	3.04816e-10	1.000000	3.04993e-10	1.000000
rad59	2.76913e-10	1.000000	2.77073e-10	1.000000
PAH10+CH3	1.98534e-10	1.000000	1.98648e-10	1.000000
rad27	1.65903e-10	1.000000	1.65998e-10	1.000000
rad14	1.58748e-10	1.000000	1.58839e-10	1.000000
rad36	1.12505e-10	1.000000	1.12570e-10	1.000000
rad25	1.07054e-10	1.000000	1.07116e-10	1.000000
rad50	7.69548e-11	1.000000	7.69993e-11	1.000000
rad22	5.43986e-11	1.000000	5.44302e-11	1.000000
rad9	3.95591e-11	1.000000	3.95819e-11	1.000000
rad43	3.26914e-11	1.000000	3.27103e-11	1.000000
rad67	2.44828e-11	1.000000	2.44970e-11	1.000000
PhcycC3H3_A+H	2.38333e-11	1.000000	2.38471e-11	1.000000
rad62	2.26586e-11	1.000000	2.26716e-11	1.000000
rad70	7.64809e-12	1.000000	7.65251e-12	1.000000
rad55	3.51269e-12	1.000000	3.51473e-12	1.000000
PAH1+H	2.19835e-12	1.000000	2.19962e-12	1.000000
rad31	5.31809e-13	1.000000	5.32116e-13	1.000000
rad52	4.56267e-13	1.000000	4.56531e-13	1.000000
rad21	3.25566e-13	1.000000	3.25755e-13	1.000000
rad20	2.96405e-13	1.000000	2.96577e-13	1.000000
rad34	1.75401e-13	1.000000	1.75503e-13	1.000000
rad51	1.37912e-13	1.000000	1.37992e-13	1.000000
rad15	2.36180e-14	1.000000	2.36317e-14	1.000000
rad58	1.74447e-14	1.000000	1.74547e-14	1.000000
rad18	1.69538e-14	1.000000	1.69636e-14	1.000000
rad42	7.30878e-15	1.000000	7.31301e-15	1.000000
rad65	3.23140e-15	1.000000	3.23327e-15	1.000000
rad41	2.23453e-15	1.000000	2.23582e-15	1.000000
rad53	9.06069e-16	1.000000	9.06592e-16	1.000000
rad5	8.09596e-16	1.000000	8.10064e-16	1.000000
rad64	3.15776e-16	1.000000	3.15959e-16	1.000000
rad24	4.92405e-17	1.000000	4.92690e-17	1.000000
rad56	1.61256e-17	1.000000	1.61349e-17	1.000000
rad68syn	1.86266e-18	1.000000	1.86374e-18	1.000000
rad68anti	1.34032e-18	1.000000	1.34109e-18	1.000000
rad61	9.64999e-19	1.000000	9.65554e-19	1.000000
rad12	6.71411e-19	1.000000	6.71800e-19	1.000000
rad40syn	1.53512e-20	1.000000	1.53600e-20	1.000000
rad73	1.22699e-20	1.000000	1.22771e-20	1.000000
PAH8+H	1.10754e-20	1.000000	1.10817e-20	1.000000
rad40anti	4.12914e-21	1.000000	4.13154e-21	1.000000
rad71	2.51106e-21	1.000000	2.51251e-21	1.000000
rad47	7.52224e-23	1.000000	7.52660e-23	1.000000
rad72	1.35003e-24	1.000000	1.35082e-24	1.000000
rad8	3.96459e-34	1.000000	3.96689e-34	1.000000

0.100000000 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.11551e-14 (1.00)	2.10979e-14 (1.00)
Formation of rad11	1.10850e-14 (0.524)	1.10501e-14 (0.524)
Formation of rad6	7.08033e-15 (0.335)	7.05804e-15 (0.335)
H-abstraction	2.98976e-15 (0.141)	2.98976e-15 (0.142)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.658973	0.658973	0.660760	0.660760
Benzene+2-propynyl	0.141326	0.800299	0.141709	0.802469
C2H2+PhCH2	0.0768990	0.877198	0.0771075	0.879576
rad6	0.0559530	0.933151	0.0561047	0.935681
PhCCH+CH3	0.0366363	0.969787	0.0367355	0.972416
PhCHCCH2+H	0.0144844	0.984272	0.0145237	0.986940
PhCCCH3+H	0.00765971	0.991931	0.00768047	0.994620
Ph+MeAc	0.00412232	0.996054	0.00413350	0.998754
Phenyl+Allene	0.00270377	0.998757	0.000000	0.998754
PAH7+H	0.000553652	0.999311	0.000555152	0.999309
PhCH2CCH+H	0.000394479	0.999706	0.000395549	0.999705
rad39	0.000133106	0.999839	0.000133467	0.999838
rad2	5.80805e-05	0.999897	5.82380e-05	0.999896

rad28	4.78701e-05	0.999945	4.79999e-05	0.999944
rad30	8.75341e-06	0.999953	8.77714e-06	0.999953
rad19anti	7.65883e-06	0.999961	7.67959e-06	0.999961
rad26	6.94352e-06	0.999968	6.96234e-06	0.999968
rad1	6.93561e-06	0.999975	6.95441e-06	0.999975
rad7	6.38137e-06	0.999981	6.39867e-06	0.999981
PAH9+H	5.93839e-06	0.999987	5.95449e-06	0.999987
rad10	2.94966e-06	0.999990	2.95765e-06	0.999990
rad37	2.33030e-06	0.999993	2.33661e-06	0.999992
rad38	1.87929e-06	0.999994	1.88439e-06	0.999994
rad11	1.73074e-06	0.999996	1.73543e-06	0.999996
rad35	1.70511e-06	0.999998	1.70973e-06	0.999998
rad3	6.57478e-07	0.999999	6.59260e-07	0.999998
rad23	6.40215e-07	0.999999	6.41950e-07	0.999999
rad4	3.70299e-07	1.000000	3.71303e-07	0.999999
rad46	1.25535e-07	1.000000	1.25875e-07	1.000000
rad19syn	7.60871e-08	1.000000	7.62934e-08	1.000000
rad45	5.95838e-08	1.000000	5.97453e-08	1.000000
rad13	3.83728e-08	1.000000	3.84768e-08	1.000000
rad60syn	2.85683e-08	1.000000	2.86457e-08	1.000000
PAH3+H	1.44860e-08	1.000000	1.45253e-08	1.000000
rad60anti	1.39242e-08	1.000000	1.39619e-08	1.000000
rad54	1.02595e-08	1.000000	1.02874e-08	1.000000
PAH10+CH3	3.37806e-09	1.000000	3.38722e-09	1.000000
rad36	2.88439e-09	1.000000	2.89221e-09	1.000000
rad59	2.59849e-09	1.000000	2.60553e-09	1.000000
PhcycC3H3_A+H	1.25746e-09	1.000000	1.26087e-09	1.000000
rad50	1.16447e-09	1.000000	1.16763e-09	1.000000
rad62	4.83407e-10	1.000000	4.84718e-10	1.000000
rad43	4.62366e-10	1.000000	4.63620e-10	1.000000
rad67	3.96772e-10	1.000000	3.97847e-10	1.000000
rad70	3.42201e-10	1.000000	3.43128e-10	1.000000
rad22	2.22403e-10	1.000000	2.23005e-10	1.000000
PAH1+H	1.64276e-10	1.000000	1.64722e-10	1.000000
rad55	1.59666e-10	1.000000	1.60100e-10	1.000000
rad33	1.18481e-10	1.000000	1.18802e-10	1.000000
rad9	8.14204e-11	1.000000	8.16412e-11	1.000000
rad27	5.61900e-11	1.000000	5.63423e-11	1.000000
rad14	5.30047e-11	1.000000	5.31484e-11	1.000000
rad25	3.70500e-11	1.000000	3.71504e-11	1.000000
rad34	1.41584e-11	1.000000	1.41968e-11	1.000000
rad52	1.39018e-11	1.000000	1.39394e-11	1.000000
rad51	8.00325e-12	1.000000	8.02494e-12	1.000000
rad31	2.32558e-12	1.000000	2.33188e-12	1.000000
rad58	1.01123e-12	1.000000	1.01397e-12	1.000000
rad42	6.18425e-13	1.000000	6.20102e-13	1.000000
rad21	5.90210e-13	1.000000	5.91810e-13	1.000000
rad20	4.59678e-13	1.000000	4.60924e-13	1.000000
rad53	2.36543e-13	1.000000	2.37184e-13	1.000000
rad65	2.24110e-13	1.000000	2.24718e-13	1.000000
rad41	1.72010e-13	1.000000	1.72477e-13	1.000000
rad64	9.70431e-14	1.000000	9.73062e-14	1.000000
rad15	5.20532e-14	1.000000	5.21943e-14	1.000000
rad18	1.42511e-14	1.000000	1.42897e-14	1.000000
rad56	1.26028e-14	1.000000	1.26369e-14	1.000000
rad68syn	1.48838e-15	1.000000	1.49242e-15	1.000000
rad73	1.39407e-15	1.000000	1.39786e-15	1.000000
rad71	1.09540e-15	1.000000	1.09837e-15	1.000000
rad68anti	1.04984e-15	1.000000	1.05269e-15	1.000000
rad24	7.11643e-16	1.000000	7.13573e-16	1.000000
rad61	5.77889e-16	1.000000	5.79456e-16	1.000000
rad5	4.55372e-16	1.000000	4.56607e-16	1.000000
PAH8+H	8.63646e-17	1.000000	8.65990e-17	1.000000
rad40syn	4.16091e-17	1.000000	4.17220e-17	1.000000
rad40anti	1.69042e-17	1.000000	1.69500e-17	1.000000
rad72	1.23396e-17	1.000000	1.23730e-17	1.000000
rad12	4.27536e-18	1.000000	4.28695e-18	1.000000
rad47	4.90576e-21	1.000000	4.91906e-21	1.000000
rad8	9.23727e-31	1.000000	9.26233e-31	1.000000

0.100000000 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.08120e-14 (1.00)	6.02895e-14 (1.00)
Formation of rad11	2.83304e-14 (0.466)	2.80327e-14 (0.465)
Formation of rad6	2.13840e-14 (0.352)	2.11593e-14 (0.351)
H-abstraction	1.10975e-14 (0.182)	1.10975e-14 (0.184)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.597850	0.597850	0.603030	0.603030
Benzene+2-propynyl	0.182488	0.780338	0.184070	0.787100
C2H2+PhCH2	0.111359	0.891697	0.112324	0.899424
PhCCH+CH3	0.0495016	0.941198	0.0499305	0.949355
PhCHCCH2+H	0.0206025	0.961801	0.0207811	0.970136
rad6	0.0119136	0.973715	0.0120168	0.982153
Phenyl+Allene	0.00859123	0.982306	0.00000	0.982153
PhCCCH3+H	0.00824387	0.990550	0.00831531	0.990468
Ph+MeAc	0.00622874	0.996778	0.00628271	0.996751
PhCH2CCH+H	0.00158014	0.998359	0.00159382	0.998345
PAH7+H	0.00123583	0.999594	0.00124654	0.999591
rad39	0.000301873	0.999896	0.000304488	0.999896
rad19anti	2.06059e-05	0.999917	2.07844e-05	0.999916
rad2	1.94474e-05	0.999936	1.96159e-05	0.999936
rad30	1.52773e-05	0.999952	1.54097e-05	0.999951
PAH9+H	1.44902e-05	0.999966	1.46158e-05	0.999966
rad28	1.05555e-05	0.999977	1.06469e-05	0.999977
rad38	4.86034e-06	0.999981	4.90247e-06	0.999982
rad37	4.20146e-06	0.999986	4.23788e-06	0.999986
rad35	3.80489e-06	0.999989	3.83786e-06	0.999990
rad1	2.87046e-06	0.999992	2.89533e-06	0.999993
rad23	1.64799e-06	0.999994	1.66227e-06	0.999994
rad26	1.48258e-06	0.999995	1.49543e-06	0.999996
rad7	1.47617e-06	0.999997	1.48897e-06	0.999997
rad10	6.48866e-07	0.999998	6.54490e-07	0.999998
rad19syn	5.75106e-07	0.999998	5.80091e-07	0.999998
rad46	4.35780e-07	0.999999	4.39556e-07	0.999999
rad11	4.22853e-07	0.999999	4.26517e-07	0.999999
rad3	2.71257e-07	0.999999	2.73608e-07	1.000000
rad45	2.10418e-07	1.000000	2.12241e-07	1.000000
rad4	1.66293e-07	1.000000	1.67734e-07	1.000000
rad54	1.00937e-07	1.000000	1.01811e-07	1.000000
rad60syn	8.91954e-08	1.000000	8.99686e-08	1.000000
PAH3+H	8.10537e-08	1.000000	8.17562e-08	1.000000
rad60anti	4.55615e-08	1.000000	4.59563e-08	1.000000
PAH10+CH3	2.30738e-08	1.000000	2.32738e-08	1.000000
PhcycC3H3_A+H	2.05504e-08	1.000000	2.07285e-08	1.000000
rad36	1.53478e-08	1.000000	1.54807e-08	1.000000
rad59	1.35222e-08	1.000000	1.36394e-08	1.000000
rad13	1.08849e-08	1.000000	1.09792e-08	1.000000
rad50	1.03217e-08	1.000000	1.04111e-08	1.000000
rad70	4.88095e-09	1.000000	4.92324e-09	1.000000
rad62	3.91438e-09	1.000000	3.94830e-09	1.000000
rad67	3.66620e-09	1.000000	3.69797e-09	1.000000
PAH1+H	3.26802e-09	1.000000	3.29633e-09	1.000000
rad43	2.61490e-09	1.000000	2.63757e-09	1.000000
rad55	2.29253e-09	1.000000	2.31240e-09	1.000000
rad22	4.93361e-10	1.000000	4.97636e-10	1.000000
rad51	3.33551e-10	1.000000	3.36442e-10	1.000000
rad9	3.00308e-10	1.000000	3.02910e-10	1.000000
rad34	2.96189e-10	1.000000	2.98756e-10	1.000000
rad52	2.39241e-10	1.000000	2.41314e-10	1.000000
rad33	4.64941e-11	1.000000	4.68970e-11	1.000000
rad58	1.73697e-11	1.000000	1.75201e-11	1.000000
rad27	1.59510e-11	1.000000	1.60892e-11	1.000000
rad14	1.48902e-11	1.000000	1.50193e-11	1.000000
rad42	1.23296e-11	1.000000	1.24365e-11	1.000000
rad25	1.15398e-11	1.000000	1.16397e-11	1.000000
rad53	1.06697e-11	1.000000	1.07622e-11	1.000000
rad65	9.50505e-12	1.000000	9.58743e-12	1.000000
rad64	4.70976e-12	1.000000	4.75057e-12	1.000000
rad71	3.96276e-12	1.000000	3.99710e-12	1.000000
rad41	3.29960e-12	1.000000	3.32819e-12	1.000000
rad31	3.12507e-12	1.000000	3.15215e-12	1.000000
rad73	3.12225e-12	1.000000	3.14930e-12	1.000000
rad21	1.60464e-12	1.000000	1.61854e-12	1.000000
rad56	1.15529e-12	1.000000	1.16530e-12	1.000000
rad20	1.01208e-12	1.000000	1.02085e-12	1.000000
rad15	1.88512e-13	1.000000	1.90145e-13	1.000000
rad68syn	1.48307e-13	1.000000	1.49593e-13	1.000000
rad72	1.12504e-13	1.000000	1.13480e-13	1.000000
rad68anti	1.02364e-13	1.000000	1.03251e-13	1.000000
rad61	1.00422e-13	1.000000	1.01291e-13	1.000000
PAH8+H	8.21812e-14	1.000000	8.28936e-14	1.000000
rad40syn	1.81127e-14	1.000000	1.82697e-14	1.000000
rad18	1.35497e-14	1.000000	1.36671e-14	1.000000
rad24	1.27497e-14	1.000000	1.28603e-14	1.000000
rad40anti	1.21205e-14	1.000000	1.22255e-14	1.000000
rad12	3.92801e-16	1.000000	3.96205e-16	1.000000

rad5	2.07484e-16	1.00000	2.09282e-16	1.00000
rad47	1.24276e-19	1.00000	1.25352e-19	1.00000
rad8	8.05028e-27	1.00000	8.12004e-27	1.00000

0.100000000 Pa, 700.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.39564e-13	(1.00)	1.36673e-13	(1.00)
Formation of rad11	5.88273e-14	(0.422)	5.72670e-14	(0.419)
Formation of rad6	5.01684e-14	(0.359)	4.88377e-14	(0.357)
H-abstraction	3.05678e-14	(0.219)	3.05678e-14	(0.224)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.509120	0.509120	0.519890	0.519890
Benzene+2-propynyl	0.219024	0.728145	0.223657	0.743548
C2H2+PhCH2	0.140216	0.868361	0.143182	0.886730
PhCCH+CH3	0.0583687	0.926730	0.0596034	0.946333
PhCHCCH2+H	0.0276768	0.954407	0.0282623	0.974596
Phenyl+Allene	0.0207148	0.975121	0.000000	0.974596
Ph+MeAc	0.00768961	0.982811	0.00785224	0.982448
PhCCCH3+H	0.00752183	0.990333	0.00768094	0.990129
PhCH2CCH+H	0.00450778	0.994841	0.00460314	0.994732
PAH7+H	0.00225206	0.997093	0.00229970	0.997032
rad6	0.00222079	0.999314	0.00226777	0.999300
rad39	0.000547014	0.999861	0.000558585	0.999858
rad19anti	4.65467e-05	0.999907	4.75313e-05	0.999906
PAH9+H	3.00388e-05	0.999937	3.06742e-05	0.999936
rad30	2.26139e-05	0.999960	2.30922e-05	0.999959
rad38	1.05575e-05	0.999970	1.07808e-05	0.999970
rad35	7.29867e-06	0.999978	7.45306e-06	0.999978
rad37	5.92600e-06	0.999984	6.05135e-06	0.999984
rad2	5.08822e-06	0.999989	5.19585e-06	0.999989
rad19syn	2.61284e-06	0.999991	2.66811e-06	0.999992
rad28	2.01920e-06	0.999993	2.06192e-06	0.999994
rad23	1.37030e-06	0.999995	1.39929e-06	0.999995
rad46	1.19606e-06	0.999996	1.22136e-06	0.999996
rad1	8.54184e-07	0.999997	8.72260e-07	0.999997
rad54	5.53741e-07	0.999997	5.65455e-07	0.999998
rad7	3.17310e-07	0.999998	3.24021e-07	0.999998
PAH3+H	2.96857e-07	0.999998	3.03136e-07	0.999998
rad26	2.74918e-07	0.999998	2.80733e-07	0.999999
rad60syn	2.09660e-07	0.999998	2.14095e-07	0.999999
rad45	1.98282e-07	0.999999	2.02476e-07	0.999999
PhcycC3H3_A+H	1.62849e-07	0.999999	1.66293e-07	0.999999
rad10	1.27007e-07	0.999999	1.29693e-07	0.999999
rad60anti	1.10942e-07	0.999999	1.13289e-07	0.999999
rad11	9.96252e-08	0.999999	1.01732e-07	1.000000
PAH10+CH3	9.17693e-08	0.999999	9.37108e-08	1.000000
rad3	7.84350e-08	0.999999	8.00945e-08	1.000000
rad50	5.91797e-08	0.999999	6.04315e-08	1.000000
rad4	5.19325e-08	0.999999	5.30311e-08	1.000000
rad59	4.64309e-08	0.999999	4.74130e-08	1.000000
rad70	3.43365e-08	0.999999	3.50628e-08	1.000000
PAH1+H	2.89431e-08	0.999999	2.95554e-08	1.000000
rad67	2.17528e-08	0.999999	2.22129e-08	1.000000
rad62	1.75653e-08	0.999999	1.79369e-08	1.000000
rad36	1.71740e-08	0.999999	1.75373e-08	1.000000
rad55	1.62453e-08	0.999999	1.65890e-08	1.000000
rad43	8.48358e-09	1.000000	8.66305e-09	1.000000
rad51	4.11716e-09	1.000000	4.20424e-09	1.000000
rad13	3.30005e-09	1.000000	3.36986e-09	1.000000
rad34	2.73421e-09	1.000000	2.79205e-09	1.000000
rad52	2.08620e-09	1.000000	2.13034e-09	1.000000
rad9	1.69387e-09	1.000000	1.72970e-09	1.000000
rad22	4.07392e-10	1.000000	4.16009e-10	1.000000
rad53	1.69943e-10	1.000000	1.73538e-10	1.000000
rad58	1.39378e-10	1.000000	1.42326e-10	1.000000
rad65	1.15263e-10	1.000000	1.17701e-10	1.000000
rad42	1.04978e-10	1.000000	1.07198e-10	1.000000
rad71	9.00684e-11	1.000000	9.19741e-11	1.000000
rad64	7.50709e-11	1.000000	7.66589e-11	1.000000
rad73	6.59547e-11	1.000000	6.73499e-11	1.000000
rad56	2.92451e-11	1.000000	2.98638e-11	1.000000
rad41	2.81492e-11	1.000000	2.87446e-11	1.000000
rad33	2.77012e-11	1.000000	2.82872e-11	1.000000
rad21	8.24398e-12	1.000000	8.41835e-12	1.000000
rad27	4.79049e-12	1.000000	4.89182e-12	1.000000
rad14	4.35587e-12	1.000000	4.44801e-12	1.000000

rad25	4.34026e-12	1.000000	4.43207e-12	1.00000
rad20	4.04267e-12	1.000000	4.12818e-12	1.00000
PAH8+H	3.96875e-12	1.000000	4.05271e-12	1.00000
rad68syn	3.72857e-12	1.000000	3.80744e-12	1.00000
rad72	2.90327e-12	1.000000	2.96468e-12	1.00000
rad61	2.56076e-12	1.000000	2.61493e-12	1.00000
rad68anti	2.54788e-12	1.000000	2.60177e-12	1.00000
rad31	1.80441e-12	1.000000	1.84257e-12	1.00000
rad40syn	8.63150e-13	1.000000	8.81405e-13	1.00000
rad15	7.51912e-13	1.000000	7.67818e-13	1.00000
rad40anti	6.74762e-13	1.000000	6.89035e-13	1.00000
rad24	4.26529e-13	1.000000	4.35552e-13	1.00000
rad12	4.90544e-14	1.000000	5.00921e-14	1.00000
rad18	1.81858e-14	1.000000	1.85704e-14	1.00000
rad5	9.43161e-17	1.000000	9.63115e-17	1.00000
rad47	2.14242e-18	1.000000	2.18773e-18	1.00000
rad8	9.58468e-23	1.000000	9.78743e-23	1.00000

0.100000000 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.75392e-13 (1.00)	2.64233e-13 (1.00)
Formation of rad11	1.06471e-13 (0.387)	1.00708e-13 (0.381)
Formation of rad6	9.97133e-14 (0.362)	9.43165e-14 (0.357)
H-abstraction	6.92082e-14 (0.251)	6.92082e-14 (0.262)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.420827	0.420827	0.438600	0.438600
Benzene+2-propynyl	0.251308	0.672135	0.261921	0.700521
C2H2+PhCH2	0.158603	0.830738	0.165302	0.865822
PhCCH+CH3	0.0630713	0.893809	0.0657349	0.931557
Phenyl+Allene	0.0405212	0.934330	0.000000	0.931557
PhCHCCH2+H	0.0360530	0.970383	0.0375756	0.969133
PhCH2CCH+H	0.00999564	0.980379	0.0104178	0.979551
Ph+MeAc	0.00839756	0.988777	0.00875221	0.988303
PhCCCH3+H	0.00622593	0.995003	0.00648887	0.994792
PAH7+H	0.00350787	0.998510	0.00365601	0.998448
rad39	0.000836027	0.999346	0.000871332	0.999319
rad6	0.000421926	0.999768	0.000439744	0.999759
rad19anti	9.01703e-05	0.999859	9.39781e-05	0.999853
PAH9+H	5.39895e-05	0.999912	5.62696e-05	0.999909
rad30	2.94324e-05	0.999942	3.06754e-05	0.999940
rad38	1.96949e-05	0.999962	2.05266e-05	0.999960
rad35	1.22893e-05	0.999974	1.28084e-05	0.999973
rad19syn	8.33257e-06	0.999982	8.68446e-06	0.999982
rad37	7.26128e-06	0.999990	7.56797e-06	0.999989
rad46	2.67672e-06	0.999992	2.78976e-06	0.999992
rad54	2.03458e-06	0.999994	2.12050e-06	0.999994
rad2	1.05322e-06	0.999995	1.09770e-06	0.999995
PAH3+H	7.97118e-07	0.999996	8.30789e-07	0.999996
PhcycC3H3_A+H	7.94348e-07	0.999997	8.27896e-07	0.999997
rad23	6.44775e-07	0.999998	6.72005e-07	0.999998
rad60syn	3.96692e-07	0.999998	4.13445e-07	0.999998
rad28	3.96286e-07	0.999998	4.13022e-07	0.999999
PAH10+CH3	2.58083e-07	0.999999	2.68983e-07	0.999999
rad60anti	2.15768e-07	0.999999	2.24880e-07	0.999999
rad50	2.05729e-07	0.999999	2.14419e-07	0.999999
rad1	1.80307e-07	0.999999	1.87922e-07	0.999999
rad70	1.50067e-07	0.999999	1.56405e-07	1.000000
PAH1+H	1.49076e-07	0.999999	1.55372e-07	1.000000
rad59	1.17709e-07	1.000000	1.22681e-07	1.000000
rad45	1.17658e-07	1.000000	1.22627e-07	1.000000
rad67	9.06127e-08	1.000000	9.44402e-08	1.000000
rad7	7.62214e-08	1.000000	7.94409e-08	1.000000
rad55	7.18808e-08	1.000000	7.49165e-08	1.000000
rad62	5.33396e-08	1.000000	5.55923e-08	1.000000
rad26	5.19387e-08	1.000000	5.41322e-08	1.000000
rad11	2.77763e-08	1.000000	2.89494e-08	1.000000
rad10	2.45828e-08	1.000000	2.56209e-08	1.000000
rad3	1.91466e-08	1.000000	1.99552e-08	1.000000
rad43	1.88870e-08	1.000000	1.96846e-08	1.000000
rad34	1.46647e-08	1.000000	1.52841e-08	1.000000
rad51	1.42995e-08	1.000000	1.49034e-08	1.000000
rad4	1.31741e-08	1.000000	1.37304e-08	1.000000
rad36	1.04467e-08	1.000000	1.08878e-08	1.000000
rad9	8.84078e-09	1.000000	9.21418e-09	1.000000
rad52	7.80265e-09	1.000000	8.13215e-09	1.000000
rad13	1.45852e-09	1.000000	1.52012e-09	1.000000

rad53	1.38735e-09	1.00000	1.44594e-09	1.00000
rad58	6.57194e-10	1.00000	6.84948e-10	1.00000
rad64	5.80195e-10	1.00000	6.04698e-10	1.00000
rad42	5.11519e-10	1.00000	5.33123e-10	1.00000
rad65	4.15506e-10	1.00000	4.33054e-10	1.00000
rad56	3.40738e-10	1.00000	3.55128e-10	1.00000
rad71	2.55403e-10	1.00000	2.66190e-10	1.00000
rad22	2.01646e-10	1.00000	2.10162e-10	1.00000
rad73	1.83549e-10	1.00000	1.91301e-10	1.00000
rad41	1.01341e-10	1.00000	1.05621e-10	1.00000
rad21	6.99085e-11	1.00000	7.28609e-11	1.00000
rad33	4.66086e-11	1.00000	4.85770e-11	1.00000
rad68syn	4.03731e-11	1.00000	4.20781e-11	1.00000
rad20	2.97861e-11	1.00000	3.10440e-11	1.00000
rad68anti	2.74227e-11	1.00000	2.85809e-11	1.00000
PAH8+H	2.25208e-11	1.00000	2.34719e-11	1.00000
rad61	1.04206e-11	1.00000	1.08607e-11	1.00000
rad72	8.54468e-12	1.00000	8.90551e-12	1.00000
rad40syn	5.65532e-12	1.00000	5.89417e-12	1.00000
rad24	5.64253e-12	1.00000	5.88084e-12	1.00000
rad40anti	3.48276e-12	1.00000	3.62984e-12	1.00000
rad25	3.33956e-12	1.00000	3.48059e-12	1.00000
rad15	2.50766e-12	1.00000	2.61357e-12	1.00000
rad27	2.21918e-12	1.00000	2.31290e-12	1.00000
rad14	1.89843e-12	1.00000	1.97861e-12	1.00000
rad12	1.16535e-12	1.00000	1.21456e-12	1.00000
rad31	8.45753e-13	1.00000	8.81466e-13	1.00000
rad18	4.77014e-14	1.00000	4.97159e-14	1.00000
rad5	5.32495e-17	1.00000	5.54984e-17	1.00000
rad47	1.15885e-17	1.00000	1.20778e-17	1.00000
rad8	3.35885e-19	1.00000	3.50071e-19	1.00000

0.100000000 Pa, 900.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	4.88072e-13	(1.00)	4.55162e-13	(1.00)
Formation of rad11	1.74945e-13	(0.358)	1.58563e-13	(0.348)
Formation of rad6	1.76509e-13	(0.362)	1.59980e-13	(0.351)
H-abstraction	1.36618e-13	(0.280)	1.36618e-13	(0.300)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.341026	0.341026	0.365684	0.365684
Benzene+2-propynyl	0.279914	0.620940	0.300153	0.665837
C2H2+PhCH2	0.164576	0.785517	0.176476	0.842313
Phenyl+Allene	0.0674292	0.852946	0.000000	0.842313
PhCCH+CH3	0.0639038	0.916850	0.0685244	0.910838
PhCHCCH2+H	0.0451185	0.961968	0.0483808	0.959218
PhCH2CCH+H	0.0182954	0.980264	0.0196182	0.978837
Ph+MeAc	0.00849140	0.988755	0.00910543	0.987942
PhCCCH3+H	0.00485193	0.993607	0.00520275	0.993145
PAH7+H	0.00482320	0.998430	0.00517194	0.998317
rad39	0.00111849	0.999549	0.00119936	0.999516
rad19anti	0.000152564	0.999701	0.000163596	0.999680
PAH9+H	8.59200e-05	0.999787	9.21328e-05	0.999772
rad6	7.87508e-05	0.999866	8.44450e-05	0.999856
rad30	3.45736e-05	0.999900	3.70734e-05	0.999893
rad38	3.23199e-05	0.999933	3.46569e-05	0.999928
rad19syn	2.05721e-05	0.999953	2.20595e-05	0.999950
rad35	1.85173e-05	0.999972	1.98561e-05	0.999970
rad37	8.30375e-06	0.999980	8.90416e-06	0.999979
rad54	5.61014e-06	0.999986	6.01578e-06	0.999985
rad46	5.08324e-06	0.999991	5.45079e-06	0.999990
PhcycC3H3_A+H	2.75306e-06	0.999994	2.95212e-06	0.999993
PAH3+H	1.70094e-06	0.999995	1.82392e-06	0.999995
rad60syn	6.35542e-07	0.999996	6.81495e-07	0.999996
PAH10+CH3	5.95339e-07	0.999996	6.38385e-07	0.999996
rad50	5.47497e-07	0.999997	5.87083e-07	0.999997
PAH1+H	5.28108e-07	0.999998	5.66293e-07	0.999997
rad70	4.68197e-07	0.999998	5.02049e-07	0.999998
rad60anti	3.53457e-07	0.999998	3.79013e-07	0.999998
rad67	2.87040e-07	0.999999	3.07794e-07	0.999999
rad23	2.74457e-07	0.999999	2.94302e-07	0.999999
rad59	2.38426e-07	0.999999	2.55666e-07	0.999999
rad55	2.28529e-07	0.999999	2.45053e-07	0.999999
rad2	1.97821e-07	1.000000	2.12124e-07	1.000000
rad62	1.23608e-07	1.000000	1.32545e-07	1.000000
rad28	7.77391e-08	1.000000	8.33595e-08	1.000000
rad45	6.07701e-08	1.000000	6.51640e-08	1.000000

rad34	5.38205e-08	1.000000	5.77120e-08	1.00000
rad1	3.66145e-08	1.000000	3.92619e-08	1.00000
rad51	3.61347e-08	1.000000	3.87475e-08	1.00000
rad43	3.27905e-08	1.000000	3.51614e-08	1.00000
rad52	2.18028e-08	1.00000	2.33792e-08	1.00000
rad7	2.04389e-08	1.00000	2.19167e-08	1.00000
rad9	1.97929e-08	1.00000	2.12241e-08	1.00000
rad26	1.02007e-08	1.00000	1.09383e-08	1.00000
rad11	9.58557e-09	1.00000	1.02787e-08	1.00000
rad53	7.16607e-09	1.00000	7.68418e-09	1.00000
rad36	5.59539e-09	1.00000	5.99996e-09	1.00000
rad10	5.39856e-09	1.00000	5.78890e-09	1.00000
rad3	4.90322e-09	1.00000	5.25774e-09	1.00000
rad4	3.57086e-09	1.00000	3.82905e-09	1.00000
rad64	2.80334e-09	1.00000	3.00603e-09	1.00000
rad56	2.33256e-09	1.00000	2.50122e-09	1.00000
rad58	2.17728e-09	1.00000	2.33471e-09	1.00000
rad42	1.72112e-09	1.00000	1.84557e-09	1.00000
rad13	1.31055e-09	1.00000	1.40531e-09	1.00000
rad65	1.11374e-09	1.00000	1.19427e-09	1.00000
rad21	3.94461e-10	1.00000	4.22983e-10	1.00000
rad68syn	2.64911e-10	1.00000	2.84065e-10	1.00000
rad71	2.59554e-10	1.00000	2.78322e-10	1.00000
rad41	2.43028e-10	1.00000	2.60600e-10	1.00000
rad73	1.91122e-10	1.00000	2.04940e-10	1.00000
rad68anti	1.78721e-10	1.00000	1.91643e-10	1.00000
rad20	1.76509e-10	1.00000	1.89272e-10	1.00000
rad33	1.38070e-10	1.00000	1.48053e-10	1.00000
PAH8+H	1.15346e-10	1.00000	1.23686e-10	1.00000
rad22	1.00191e-10	1.00000	1.07435e-10	1.00000
rad61	3.19949e-11	1.00000	3.43083e-11	1.00000
rad40syn	3.09829e-11	1.00000	3.32231e-11	1.00000
rad24	1.88563e-11	1.00000	2.02196e-11	1.00000
rad40anti	1.41459e-11	1.00000	1.51686e-11	1.00000
rad72	8.70937e-12	1.00000	9.33911e-12	1.00000
rad25	6.16737e-12	1.00000	6.61330e-12	1.00000
rad12	5.36854e-12	1.00000	5.75671e-12	1.00000
rad15	4.71761e-12	1.00000	5.05871e-12	1.00000
rad27	1.94296e-12	1.00000	2.08345e-12	1.00000
rad14	1.59025e-12	1.00000	1.70523e-12	1.00000
rad31	4.21250e-13	1.00000	4.51708e-13	1.00000
rad18	1.96102e-13	1.00000	2.10280e-13	1.00000
rad8	1.12313e-16	1.00000	1.20434e-16	1.00000
rad5	3.60050e-17	1.00000	3.86083e-17	1.00000
rad47	2.80649e-17	1.00000	3.00941e-17	1.00000

0.100000000 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.98668e-13 (1.00)	7.19596e-13 (1.00)
Formation of rad11	2.67704e-13 (0.335)	2.29547e-13 (0.319)
Formation of rad6	2.87049e-13 (0.359)	2.46135e-13 (0.342)
H-abstraction	2.43915e-13 (0.305)	2.43915e-13 (0.339)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.305402	0.305402	0.338961	0.338961
Indene+H	0.272138	0.577540	0.302041	0.641002
C2H2+PhCH2	0.159437	0.736977	0.176957	0.817959
Phenyl+Allene	0.0990045	0.835982	0.00000	0.817959
PhCCH+CH3	0.0616136	0.897595	0.0683839	0.886343
PhCHCCH2+H	0.0537568	0.951352	0.0596637	0.946007
PhCH2CCH+H	0.0288964	0.980248	0.0320716	0.978078
Ph+MeAc	0.00817570	0.988424	0.00907409	0.987152
PAH7+H	0.00601148	0.994436	0.00667200	0.993824
PhCCCH3+H	0.00364243	0.998078	0.00404267	0.997867
rad39	0.00134887	0.999427	0.00149709	0.999364
rad19anti	0.000230027	0.999657	0.000255303	0.999619
PAH9+H	0.000123767	0.999781	0.000137367	0.999757
rad38	4.78151e-05	0.999829	5.30691e-05	0.999810
rad19syn	4.20371e-05	0.999871	4.66562e-05	0.999856
rad30	3.74797e-05	0.999908	4.15982e-05	0.999898
rad35	2.54727e-05	0.999934	2.82717e-05	0.999926
rad6	1.64668e-05	0.999950	1.82762e-05	0.999945
rad54	1.25293e-05	0.999963	1.39060e-05	0.999958
rad37	9.28219e-06	0.999972	1.03021e-05	0.999969
rad46	8.50167e-06	0.999980	9.43588e-06	0.999978
PhcycC3H3_A+H	7.44290e-06	0.999988	8.26075e-06	0.999986
PAH3+H	3.05886e-06	0.999991	3.39497e-06	0.999990

PAH1+H	1.42934e-06	0.999992	1.58640e-06	0.999991
rad50	1.26042e-06	0.999994	1.39891e-06	0.999993
PAH10+CH3	1.21483e-06	0.999995	1.34832e-06	0.999994
rad70	1.14134e-06	0.999996	1.26675e-06	0.999995
rad60syn	8.97094e-07	0.999997	9.95671e-07	0.999996
rad67	7.33489e-07	0.999998	8.14083e-07	0.999997
rad55	5.71765e-07	0.999998	6.34593e-07	0.999998
rad60anti	5.08256e-07	0.999999	5.64105e-07	0.999998
rad59	4.08682e-07	0.999999	4.53589e-07	0.999999
rad62	2.36352e-07	0.999999	2.62324e-07	0.999999
rad34	1.49953e-07	0.999999	1.66431e-07	0.999999
rad23	1.27355e-07	1.000000	1.41349e-07	0.999999
rad51	9.69020e-08	1.000000	1.07550e-07	1.000000
rad52	5.58488e-08	1.000000	6.19857e-08	1.000000
rad43	4.83940e-08	1.000000	5.37116e-08	1.000000
rad2	4.28396e-08	1.000000	4.75470e-08	1.000000
rad45	3.20634e-08	1.000000	3.55866e-08	1.000000
rad53	2.66808e-08	1.000000	2.96127e-08	1.000000
rad9	2.02066e-08	1.000000	2.24269e-08	1.000000
rad28	1.76060e-08	1.000000	1.95407e-08	1.000000
rad56	1.08971e-08	1.000000	1.20945e-08	1.000000
rad64	9.69041e-09	1.000000	1.07552e-08	1.000000
rad1	8.90114e-09	1.000000	9.87917e-09	1.000000
rad7	7.47540e-09	1.000000	8.29677e-09	1.000000
rad11	6.07712e-09	1.000000	6.74492e-09	1.000000
rad58	5.61976e-09	1.000000	6.23728e-09	1.000000
rad42	4.48058e-09	1.000000	4.97292e-09	1.000000
rad65	3.05215e-09	1.000000	3.38753e-09	1.000000
rad36	3.00193e-09	1.000000	3.33179e-09	1.000000
rad13	2.94071e-09	1.000000	3.26384e-09	1.000000
rad26	2.44840e-09	1.000000	2.71743e-09	1.000000
rad10	1.82222e-09	1.000000	2.02246e-09	1.000000
rad3	1.53300e-09	1.000000	1.70145e-09	1.000000
rad68syn	1.19405e-09	1.000000	1.32525e-09	1.000000
rad4	1.16467e-09	1.000000	1.29266e-09	1.000000
rad21	9.65672e-10	1.000000	1.07178e-09	1.000000
rad68anti	8.00628e-10	1.000000	8.88602e-10	1.000000
PAH8+H	6.77059e-10	1.000000	7.51456e-10	1.000000
rad41	5.02556e-10	1.000000	5.57779e-10	1.000000
rad20	4.74927e-10	1.000000	5.27113e-10	1.000000
rad33	2.74989e-10	1.000000	3.05205e-10	1.000000
rad71	2.05611e-10	1.000000	2.28205e-10	1.000000
rad73	1.89074e-10	1.000000	2.09850e-10	1.000000
rad40syn	1.62207e-10	1.000000	1.80031e-10	1.000000
rad61	1.16858e-10	1.000000	1.29698e-10	1.000000
rad40anti	7.26091e-11	1.000000	8.05873e-11	1.000000
rad22	6.67978e-11	1.000000	7.41376e-11	1.000000
rad24	2.48931e-11	1.000000	2.76285e-11	1.000000
rad25	1.52289e-11	1.000000	1.69023e-11	1.000000
rad12	9.30727e-12	1.000000	1.03300e-11	1.000000
rad72	5.92294e-12	1.000000	6.57377e-12	1.000000
rad15	5.46227e-12	1.000000	6.06249e-12	1.000000
rad14	2.14509e-12	1.000000	2.38080e-12	1.000000
rad27	2.11538e-12	1.000000	2.34783e-12	1.000000
rad18	9.40916e-13	1.000000	1.04430e-12	1.000000
rad31	2.33053e-13	1.000000	2.58661e-13	1.000000
rad8	3.75951e-15	1.000000	4.17261e-15	1.000000
rad47	7.12039e-17	1.000000	7.90279e-17	1.000000
rad5	3.44787e-17	1.000000	3.82674e-17	1.000000

0.100000000 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22919e-12 (1.00)	1.06689e-12 (1.00)
Formation of rad11	3.87976e-13 (0.316)	3.11712e-13 (0.292)
Formation of rad6	4.37724e-13 (0.356)	3.51682e-13 (0.330)
H-abstraction	4.03491e-13 (0.328)	4.03491e-13 (0.378)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.328257	0.328257	0.378195	0.378195
Indene+H	0.214720	0.542977	0.247386	0.625581
C2H2+PhCH2	0.146496	0.689473	0.168783	0.794364
Phenyl+Allene	0.132043	0.821517	0.000000	0.794364
PhCHCCH2+H	0.0609564	0.882473	0.0702297	0.864593
PhCCH+CH3	0.0572421	0.939715	0.0659505	0.930544
PhCH2CCH+H	0.0407439	0.980459	0.0469423	0.977486
Ph+MeAc	0.00763469	0.988094	0.00879611	0.986282
PAH7+H	0.00694703	0.995041	0.00800387	0.994286

PhCCCH3+H	0.00267726	0.997718	0.00308456	0.997371
rad39	0.00150220	0.999220	0.00173074	0.999101
rad19anti	0.000315224	0.999535	0.000363179	0.999465
PAH9+H	0.000164427	0.999700	0.000189441	0.999654
rad19syn	7.45655e-05	0.999774	8.59092e-05	0.999740
rad38	6.50560e-05	0.999839	7.49530e-05	0.999815
rad30	3.82322e-05	0.999878	4.40485e-05	0.999859
rad35	3.25663e-05	0.999910	3.75206e-05	0.999896
rad54	2.39079e-05	0.999934	2.75450e-05	0.999924
PhcycC3H3_A+H	1.67308e-05	0.999951	1.92760e-05	0.999943
rad46	1.28445e-05	0.999964	1.47985e-05	0.999958
rad37	1.03716e-05	0.999974	1.19494e-05	0.999970
PAH3+H	4.84002e-06	0.999979	5.57634e-06	0.999976
rad6	4.22222e-06	0.999983	4.86455e-06	0.999980
PAH1+H	3.16901e-06	0.999986	3.65111e-06	0.999984
rad50	2.54283e-06	0.999989	2.92967e-06	0.999987
rad70	2.31282e-06	0.999991	2.66467e-06	0.999990
PAH10+CH3	2.25184e-06	0.999993	2.59442e-06	0.999992
rad67	1.57982e-06	0.999995	1.82015e-06	0.999994
rad55	1.19784e-06	0.999996	1.38006e-06	0.999995
rad60syn	1.15117e-06	0.999997	1.32630e-06	0.999997
rad60anti	6.62633e-07	0.999998	7.63439e-07	0.999998
rad59	6.18431e-07	0.999999	7.12514e-07	0.999998
rad62	3.93260e-07	0.999999	4.53087e-07	0.999999
rad34	3.40150e-07	0.999999	3.91897e-07	0.999999
rad51	2.40845e-07	1.000000	2.77485e-07	0.999999
rad52	1.26156e-07	1.000000	1.45348e-07	1.000000
rad53	7.80417e-08	1.000000	8.99142e-08	1.000000
rad43	6.37716e-08	1.000000	7.34731e-08	1.000000
rad23	6.24936e-08	1.000000	7.20006e-08	1.000000
rad56	3.84107e-08	1.000000	4.42541e-08	1.000000
rad64	2.61448e-08	1.000000	3.01223e-08	1.000000
rad45	1.71592e-08	1.000000	1.97697e-08	1.000000
rad9	1.51281e-08	1.000000	1.74296e-08	1.000000
rad58	1.20382e-08	1.000000	1.38695e-08	1.000000
rad2	1.10394e-08	1.000000	1.27189e-08	1.000000
rad42	9.67531e-09	1.000000	1.11472e-08	1.000000
rad11	9.49737e-09	1.000000	1.09422e-08	1.000000
rad65	7.56926e-09	1.000000	8.72081e-09	1.000000
rad13	5.82704e-09	1.000000	6.71350e-09	1.000000
rad7	5.09927e-09	1.000000	5.87503e-09	1.000000
rad28	5.00573e-09	1.000000	5.76726e-09	1.000000
rad68syn	4.04390e-09	1.000000	4.65911e-09	1.000000
PAH8+H	3.09044e-09	1.000000	3.56060e-09	1.000000
rad68anti	2.69739e-09	1.000000	3.10775e-09	1.000000
rad1	2.46720e-09	1.000000	2.84254e-09	1.000000
rad36	1.62191e-09	1.000000	1.86865e-09	1.000000
rad21	1.13117e-09	1.000000	1.30325e-09	1.000000
rad10	9.56703e-10	1.000000	1.10224e-09	1.000000
rad41	9.13308e-10	1.000000	1.05225e-09	1.000000
rad26	7.55207e-10	1.000000	8.70097e-10	1.000000
rad40syn	6.54345e-10	1.000000	7.53895e-10	1.000000
rad20	5.77624e-10	1.000000	6.65499e-10	1.000000
rad3	5.52345e-10	1.000000	6.36374e-10	1.000000
rad4	4.29272e-10	1.000000	4.94577e-10	1.000000
rad73	4.06669e-10	1.000000	4.68536e-10	1.000000
rad61	3.80712e-10	1.000000	4.38630e-10	1.000000
rad71	3.08742e-10	1.000000	3.55711e-10	1.000000
rad40anti	3.05986e-10	1.000000	3.52535e-10	1.000000
rad33	3.00133e-10	1.000000	3.45792e-10	1.000000
rad22	4.96441e-11	1.000000	5.71965e-11	1.000000
rad25	2.74056e-11	1.000000	3.15748e-11	1.000000
rad24	2.17025e-11	1.000000	2.50041e-11	1.000000
rad12	1.06602e-11	1.000000	1.22820e-11	1.000000
rad15	5.59047e-12	1.000000	6.44096e-12	1.000000
rad18	4.97476e-12	1.000000	5.73158e-12	1.000000
rad72	4.47838e-12	1.000000	5.15968e-12	1.000000
rad14	2.70556e-12	1.000000	3.11716e-12	1.000000
rad27	1.75907e-12	1.000000	2.02667e-12	1.000000
rad31	1.37224e-13	1.000000	1.58100e-13	1.000000
rad8	2.31161e-14	1.000000	2.66327e-14	1.000000
rad47	1.77088e-16	1.000000	2.04029e-16	1.000000
rad5	4.85020e-17	1.000000	5.58807e-17	1.000000

0.100000000 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.50733e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.03336e-13 (0.268)

Formation of rad6	6.34764e-13 (0.352)	4.75183e-13 (0.315)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.417)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.417171	0.417171
Indene+H	0.168227	0.517110	0.201154	0.618325
Phenyl+Allene	0.163693	0.680803	0.00000	0.618325
C2H2+PhCH2	0.129443	0.810246	0.154778	0.773103
PhCHCCH2+H	0.0661470	0.876393	0.0790940	0.852197
PhCH2CCH+H	0.0526489	0.929041	0.0629537	0.915151
PhCCH+CH3	0.0518198	0.980861	0.0619623	0.977113
PAH7+H	0.00758538	0.988447	0.00907005	0.986184
Ph+MeAc	0.00700407	0.995451	0.00837502	0.994559
PhCCCH3+H	0.00195095	0.997402	0.00233282	0.996891
rad39	0.00157580	0.998977	0.00188423	0.998776
rad19anti	0.000399583	0.999377	0.000477794	0.999253
PAH9+H	0.000204724	0.999582	0.000244795	0.999498
rad19syn	0.000118864	0.999701	0.000142129	0.999640
rad38	8.27791e-05	0.999783	9.89813e-05	0.999739
rad54	4.05008e-05	0.999824	4.84281e-05	0.999788
rad35	3.93001e-05	0.999863	4.69924e-05	0.999835
rad30	3.73112e-05	0.999901	4.46142e-05	0.999879
PhcycC3H3_A+H	3.27089e-05	0.999933	3.91111e-05	0.999918
rad46	1.78909e-05	0.999951	2.13928e-05	0.999940
rad37	1.16240e-05	0.999963	1.38992e-05	0.999954
PAH3+H	6.95985e-06	0.999970	8.32216e-06	0.999962
PAH1+H	6.04582e-06	0.999976	7.22918e-06	0.999969
rad50	4.57554e-06	0.999980	5.47112e-06	0.999975
rad70	4.07153e-06	0.999984	4.86847e-06	0.999980
PAH10+CH3	3.83991e-06	0.999988	4.59150e-06	0.999984
rad67	2.96852e-06	0.999991	3.54956e-06	0.999988
rad55	2.19503e-06	0.999993	2.62466e-06	0.999990
rad6	1.47304e-06	0.999995	1.76136e-06	0.999992
rad60syn	1.37646e-06	0.999996	1.64587e-06	0.999994
rad59	8.52885e-07	0.999997	1.01982e-06	0.999995
rad60anti	8.03348e-07	0.999998	9.60584e-07	0.999996
rad34	6.59907e-07	0.999999	7.89069e-07	0.999997
rad62	5.91364e-07	0.999999	7.07112e-07	0.999997
rad51	5.27079e-07	1.000000	6.30248e-07	0.999998
rad52	2.51095e-07	1.000000	3.00243e-07	0.999998
rad53	1.90240e-07	1.000000	2.27476e-07	0.999998
rad56	1.09450e-07	1.000000	1.30873e-07	0.999999
rad43	7.76294e-08	1.000000	9.28237e-08	0.999999
rad64	5.85565e-08	1.000000	7.00182e-08	0.999999
rad23	3.20517e-08	1.000000	3.83253e-08	0.999999
rad58	2.24168e-08	1.000000	2.68045e-08	0.999999
rad42	1.82039e-08	1.000000	2.17670e-08	0.999999
rad11	1.80800e-08	1.000000	2.16188e-08	0.999999
rad65	1.64061e-08	1.000000	1.96173e-08	0.999999
rad68syn	1.10178e-08	1.000000	1.31743e-08	0.999999
PAH8+H	1.09241e-08	1.000000	1.30624e-08	0.999999
rad9	1.05549e-08	1.000000	1.26209e-08	0.999999
rad45	9.28285e-09	1.000000	1.10997e-08	0.999999
rad7	7.86484e-09	1.000000	9.40430e-09	0.999999
rad68anti	7.31641e-09	1.000000	8.74844e-09	0.999999
rad13	6.57824e-09	1.000000	7.86580e-09	0.999999
rad2	3.21908e-09	1.000000	3.84916e-09	0.999999
rad40syn	2.07817e-09	1.000000	2.48494e-09	0.999999
rad28	1.92526e-09	1.000000	2.30210e-09	0.999999
rad41	1.48128e-09	1.000000	1.77122e-09	0.999999
rad73	1.30477e-09	1.000000	1.56016e-09	0.999999
rad61	1.03738e-09	1.000000	1.24043e-09	0.999999
rad40anti	1.01447e-09	1.000000	1.21304e-09	0.999999
rad71	9.71851e-10	1.000000	1.16207e-09	0.999999
rad36	8.85252e-10	1.000000	1.05852e-09	0.999999
rad21	8.80525e-10	1.000000	1.05287e-09	0.999999
rad1	7.48107e-10	1.000000	8.94538e-10	0.999999
rad10	6.54894e-10	1.000000	7.83078e-10	0.999999
rad20	4.30256e-10	1.000000	5.14471e-10	0.999999
rad26	3.04502e-10	1.000000	3.64103e-10	0.999999
rad33	2.26312e-10	1.000000	2.70609e-10	0.999999
rad3	2.18122e-10	1.000000	2.60815e-10	0.999999
rad4	1.71721e-10	1.000000	2.05332e-10	0.999999
rad22	3.55778e-11	1.000000	4.25415e-11	0.999999
rad25	3.12546e-11	1.000000	3.73721e-11	0.999999
rad18	1.78508e-11	1.000000	2.13448e-11	0.999999
rad24	1.65815e-11	1.000000	1.98270e-11	0.999999
rad12	1.03533e-11	1.000000	1.23798e-11	0.999999
rad72	8.96165e-12	1.000000	1.07157e-11	0.999999

rad15	6.14539e-12	1.00000	7.34825e-12	0.999999
rad14	2.48705e-12	1.00000	2.97385e-12	0.999999
rad27	1.03789e-12	1.00000	1.24104e-12	0.999999
rad31	8.42461e-14	1.00000	1.00736e-13	0.999999
rad8	5.36857e-14	1.00000	6.41940e-14	0.999999
rad47	3.91422e-16	1.00000	4.68036e-16	0.999999
rad5	9.65450e-17	1.00000	1.15442e-16	0.999999

0.100000000 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.54148e-12 (1.00)	2.05338e-12 (1.00)
Formation of rad11	7.22991e-13 (0.284)	5.03422e-13 (0.245)
Formation of rad6	8.84215e-13 (0.348)	6.15682e-13 (0.300)
H-abstraction	9.34273e-13 (0.368)	9.34273e-13 (0.455)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.367610	0.367610	0.454993	0.454993
Phenyl+Allene	0.192054	0.559664	0.000000	0.454993
Indene+H	0.131423	0.691087	0.162663	0.617656
C2H2+PhCH2	0.111294	0.802381	0.137749	0.755405
PhCHCCH2+H	0.0692296	0.871610	0.0856854	0.841090
PhCH2CCH+H	0.0636260	0.935236	0.0787507	0.919841
PhCCH+CH3	0.0461554	0.981392	0.0571270	0.976968
PAH7+H	0.00794566	0.989337	0.00983437	0.986802
Ph+MeAc	0.00637076	0.995708	0.00788510	0.994687
rad39	0.00158195	0.997290	0.00195799	0.996645
PhCCCH3+H	0.00142376	0.998714	0.00176219	0.998408
rad19anti	0.000475491	0.999189	0.000588520	0.998996
PAH9+H	0.000242143	0.999431	0.000299702	0.999296
rad19syn	0.000174661	0.999606	0.000216180	0.999512
rad38	9.98917e-05	0.999706	0.000123637	0.999636
rad54	6.26277e-05	0.999769	7.75147e-05	0.999713
PhcycC3H3_A+H	5.74355e-05	0.999826	7.10885e-05	0.999784
rad35	4.53533e-05	0.999871	5.61340e-05	0.999840
rad30	3.53182e-05	0.999907	4.37136e-05	0.999884
rad46	2.33633e-05	0.999930	2.89170e-05	0.999913
rad37	1.29873e-05	0.999943	1.60745e-05	0.999929
PAH1+H	1.02826e-05	0.999953	1.27268e-05	0.999942
PAH3+H	9.32010e-06	0.999963	1.15356e-05	0.999953
rad50	7.49825e-06	0.999970	9.28059e-06	0.999963
rad70	6.43021e-06	0.999977	7.95873e-06	0.999971
PAH10+CH3	6.07807e-06	0.999983	7.52289e-06	0.999978
rad67	4.99606e-06	0.999988	6.18364e-06	0.999984
rad55	3.63005e-06	0.999991	4.49294e-06	0.999989
rad60syn	1.56341e-06	0.999993	1.93504e-06	0.999991
rad34	1.13463e-06	0.999994	1.40433e-06	0.999992
rad59	1.09807e-06	0.999995	1.35909e-06	0.999994
rad51	1.02696e-06	0.999996	1.27108e-06	0.999995
rad60anti	9.23694e-07	0.999997	1.14326e-06	0.999996
rad62	8.25908e-07	0.999998	1.02223e-06	0.999997
rad6	7.37177e-07	0.999999	9.12406e-07	0.999998
rad52	4.49116e-07	0.999999	5.55874e-07	0.999998
rad53	4.02871e-07	0.999999	4.98636e-07	0.999999
rad56	2.64601e-07	1.000000	3.27499e-07	0.999999
rad64	1.13757e-07	1.000000	1.40798e-07	0.999999
rad43	8.95977e-08	1.000000	1.10896e-07	1.000000
rad58	3.75511e-08	1.000000	4.64772e-08	1.000000
rad65	3.15800e-08	1.000000	3.90868e-08	1.000000
PAH8+H	3.15033e-08	1.000000	3.89918e-08	1.000000
rad42	3.09041e-08	1.000000	3.82501e-08	1.000000
rad68syn	2.53724e-08	1.000000	3.14037e-08	1.000000
rad11	2.34861e-08	1.000000	2.90690e-08	1.000000
rad23	1.72759e-08	1.000000	2.13825e-08	1.000000
rad68anti	1.67836e-08	1.000000	2.07731e-08	1.000000
rad7	1.35408e-08	1.000000	1.67595e-08	1.000000
rad9	7.08985e-09	1.000000	8.77515e-09	1.000000
rad40syn	5.46388e-09	1.000000	6.76266e-09	1.000000
rad45	5.08653e-09	1.000000	6.29564e-09	1.000000
rad13	4.96058e-09	1.000000	6.13972e-09	1.000000
rad73	3.91098e-09	1.000000	4.84064e-09	1.000000
rad71	3.23258e-09	1.000000	4.00099e-09	1.000000
rad40anti	2.76944e-09	1.000000	3.42775e-09	1.000000
rad61	2.41966e-09	1.000000	2.99483e-09	1.000000
rad41	2.20494e-09	1.000000	2.72907e-09	1.000000
rad28	1.04569e-09	1.000000	1.29427e-09	1.000000
rad2	1.02899e-09	1.000000	1.27359e-09	1.000000
rad21	5.91896e-10	1.000000	7.32592e-10	1.000000

rad36	4.89663e-10	1.00000	6.06058e-10	1.000000
rad10	4.49496e-10	1.00000	5.56343e-10	1.000000
rad20	2.64076e-10	1.00000	3.26848e-10	1.000000
rad1	2.44472e-10	1.00000	3.02584e-10	1.000000
rad26	1.57557e-10	1.00000	1.95009e-10	1.000000
rad33	1.50558e-10	1.00000	1.86346e-10	1.000000
rad3	9.21740e-11	1.00000	1.14085e-10	1.000000
rad4	7.31966e-11	1.00000	9.05959e-11	1.000000
rad72	3.50025e-11	1.00000	4.33228e-11	1.000000
rad18	3.21869e-11	1.00000	3.98379e-11	1.000000
rad25	2.62026e-11	1.00000	3.24312e-11	1.000000
rad22	2.57354e-11	1.00000	3.18529e-11	1.000000
rad24	1.21066e-11	1.00000	1.49844e-11	1.000000
rad15	1.02130e-11	1.00000	1.26408e-11	1.000000
rad12	9.25130e-12	1.00000	1.14504e-11	1.000000
rad14	1.75351e-12	1.00000	2.17034e-12	1.000000
rad27	5.04995e-13	1.00000	6.25035e-13	1.000000
rad8	7.86630e-14	1.00000	9.73616e-14	1.000000
rad31	5.35297e-14	1.00000	6.62543e-14	1.000000
rad47	7.67646e-16	1.00000	9.50121e-16	1.000000
rad5	2.41487e-16	1.00000	2.98890e-16	1.000000

0.100000000 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.47024e-12 (1.00)	2.71984e-12 (1.00)
Formation of rad11	9.43269e-13 (0.272)	6.11768e-13 (0.225)
Formation of rad6	1.19194e-12 (0.343)	7.73043e-13 (0.284)
H-abstraction	1.33503e-12 (0.385)	1.33503e-12 (0.491)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.490849	0.490849
Phenyl+Allene	0.216237	0.600946	0.00000	0.490849
Indene+H	0.102754	0.703700	0.131103	0.621952
C2H2+PhCH2	0.0940325	0.797732	0.119976	0.741928
PhCH2CCH+H	0.0730480	0.870780	0.0932017	0.835129
PhCHCCH2+H	0.0704361	0.941216	0.0898688	0.924998
PhCCH+CH3	0.0407706	0.981987	0.0520190	0.977017
PAH7+H	0.00808062	0.990068	0.0103100	0.987327
Ph+MeAc	0.00578250	0.995850	0.00737786	0.994705
rad39	0.00153900	0.997389	0.00196360	0.996668
PhCCCH3+H	0.00104907	0.998438	0.00133851	0.998007
rad19anti	0.000537563	0.998976	0.000685878	0.998693
PAH9+H	0.000275098	0.999251	0.000350998	0.999044
rad19syn	0.000241021	0.999492	0.000307517	0.999351
rad38	0.000115619	0.999607	0.000147517	0.999499
PhcycC3H3_A+H	9.27194e-05	0.999700	0.000118300	0.999617
rad54	9.02066e-05	0.999790	0.000115095	0.999732
rad35	5.05806e-05	0.999841	6.45354e-05	0.999797
rad30	3.27887e-05	0.999874	4.18350e-05	0.999839
rad46	2.89901e-05	0.999903	3.69885e-05	0.999876
PAH1+H	1.59965e-05	0.999919	2.04098e-05	0.999896
rad37	1.43564e-05	0.999933	1.83173e-05	0.999914
PAH3+H	1.18379e-05	0.999945	1.51039e-05	0.999929
rad50	1.13937e-05	0.999956	1.45372e-05	0.999944
rad70	9.33027e-06	0.999966	1.19044e-05	0.999956
PAH10+CH3	9.00306e-06	0.999975	1.14870e-05	0.999967
rad67	7.68578e-06	0.999982	9.80630e-06	0.999977
rad55	5.54140e-06	0.999988	7.07023e-06	0.999984
rad51	1.81697e-06	0.999990	2.31827e-06	0.999987
rad34	1.77489e-06	0.999991	2.26458e-06	0.999989
rad60syn	1.71204e-06	0.999993	2.18439e-06	0.999991
rad59	1.34391e-06	0.999994	1.71469e-06	0.999993
rad62	1.09239e-06	0.999996	1.39377e-06	0.999994
rad60anti	1.02264e-06	0.999997	1.30479e-06	0.999995
rad53	7.63465e-07	0.999997	9.74103e-07	0.999996
rad52	7.36313e-07	0.999998	9.39455e-07	0.999997
rad56	5.61681e-07	0.999999	7.16646e-07	0.999998
rad6	5.10484e-07	0.999999	6.51327e-07	0.999999
rad64	1.97837e-07	0.999999	2.52420e-07	0.999999
rad43	1.00006e-07	0.999999	1.27597e-07	0.999999
PAH8+H	7.73021e-08	1.000000	9.86292e-08	0.999999
rad58	5.80234e-08	1.000000	7.40321e-08	0.999999
rad65	5.51466e-08	1.000000	7.03616e-08	0.999999
rad68syn	5.11879e-08	1.000000	6.53104e-08	0.999999
rad42	4.85218e-08	1.000000	6.19087e-08	0.999999
rad68anti	3.37458e-08	1.000000	4.30562e-08	0.999999
rad11	2.04002e-08	1.000000	2.60285e-08	0.999999

rad7	1.60536e-08	1.000000	2.04828e-08	0.999999
rad40syn	1.23713e-08	1.000000	1.57845e-08	1.000000
rad73	1.01889e-08	1.000000	1.30000e-08	1.000000
rad23	9.80159e-09	1.000000	1.25058e-08	1.000000
rad71	9.37907e-09	1.000000	1.19667e-08	1.000000
rad40anti	6.47932e-09	1.000000	8.26699e-09	1.000000
rad61	4.96394e-09	1.000000	6.33348e-09	1.000000
rad9	4.64129e-09	1.000000	5.92179e-09	1.000000
rad13	3.15431e-09	1.000000	4.02458e-09	1.000000
rad41	3.08800e-09	1.000000	3.93996e-09	1.000000
rad45	2.83113e-09	1.000000	3.61223e-09	1.000000
rad28	7.92033e-10	1.000000	1.01055e-09	1.000000
rad21	3.81312e-10	1.000000	4.86516e-10	1.000000
rad2	3.56142e-10	1.000000	4.54401e-10	1.000000
rad36	2.75210e-10	1.000000	3.51140e-10	1.000000
rad10	2.59045e-10	1.000000	3.30515e-10	1.000000
rad20	1.53372e-10	1.000000	1.95687e-10	1.000000
rad72	1.30010e-10	1.000000	1.65879e-10	1.000000
rad26	9.79617e-11	1.000000	1.24989e-10	1.000000
rad33	9.76381e-11	1.000000	1.24576e-10	1.000000
rad1	8.57463e-11	1.000000	1.09403e-10	1.000000
rad3	4.12327e-11	1.000000	5.26086e-11	1.000000
rad4	3.29570e-11	1.000000	4.20497e-11	1.000000
rad18	3.26200e-11	1.000000	4.16197e-11	1.000000
rad22	2.20880e-11	1.000000	2.81820e-11	1.000000
rad15	2.14053e-11	1.000000	2.73110e-11	1.000000
rad25	1.94019e-11	1.000000	2.47549e-11	1.000000
rad24	8.67733e-12	1.000000	1.10714e-11	1.000000
rad12	7.86926e-12	1.000000	1.00404e-11	1.000000
rad14	1.11490e-12	1.000000	1.42249e-12	1.000000
rad27	2.38794e-13	1.000000	3.04677e-13	1.000000
rad8	9.26493e-14	1.000000	1.18211e-13	1.000000
rad31	3.51192e-14	1.000000	4.48085e-14	1.000000
rad47	1.36094e-15	1.000000	1.73642e-15	1.000000
rad5	6.40401e-16	1.000000	8.17086e-16	1.000000

0.100000000 Pa, 1500.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	4.61271e-12	(1.00)	3.52361e-12	(1.00)
Formation of rad11	1.20217e-12	(0.261)	7.28781e-13	(0.207)
Formation of rad6	1.56360e-12	(0.339)	9.47885e-13	(0.269)
H-abstraction	1.84694e-12	(0.400)	1.84694e-12	(0.524)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.524162	0.524162
Phenyl+Allene	0.236110	0.636512	0.000000	0.524162
Indene+H	0.0806435	0.717155	0.105570	0.629732
PhCH2CCH+H	0.0806387	0.797794	0.105563	0.735295
C2H2+PhCH2	0.0787056	0.876500	0.103032	0.838327
PhCHCCH2+H	0.0701571	0.946657	0.0918420	0.930169
PhCCH+CH3	0.0359365	0.982593	0.0470441	0.977213
PAH7+H	0.00805104	0.990644	0.0105395	0.987753
Ph+MeAc	0.00526032	0.995905	0.00688623	0.994639
rad39	0.00146496	0.997370	0.00191777	0.996557
PhCCCH3+H	0.000785545	0.998155	0.00102834	0.997585
rad19anti	0.000582991	0.998738	0.000763187	0.998349
rad19syn	0.000316568	0.999055	0.000414415	0.998763
PAH9+H	0.000302848	0.999358	0.000396454	0.999159
PhcycC3H3_A+H	0.000139913	0.999498	0.000183159	0.999343
rad38	0.000129501	0.999627	0.000169528	0.999512
rad54	0.000122809	0.999750	0.000160768	0.999673
rad35	5.49604e-05	0.999805	7.19481e-05	0.999745
rad46	3.45386e-05	0.999839	4.52141e-05	0.999790
rad30	3.01154e-05	0.999869	3.94237e-05	0.999829
PAH1+H	2.31903e-05	0.999893	3.03581e-05	0.999860
rad50	1.62773e-05	0.999909	2.13085e-05	0.999881
rad37	1.56193e-05	0.999925	2.04470e-05	0.999902
PAH3+H	1.44553e-05	0.999939	1.89233e-05	0.999920
rad70	1.26613e-05	0.999952	1.65748e-05	0.999937
PAH10+CH3	1.25753e-05	0.999964	1.64622e-05	0.999953
rad67	1.09795e-05	0.999975	1.43731e-05	0.999968
rad55	7.93598e-06	0.999983	1.03889e-05	0.999978
rad51	2.96773e-06	0.999986	3.88502e-06	0.999982
rad34	2.57549e-06	0.999989	3.37155e-06	0.999986
rad60syn	1.82792e-06	0.999990	2.39290e-06	0.999988
rad59	1.58468e-06	0.999992	2.07448e-06	0.999990
rad62	1.38707e-06	0.999993	1.81580e-06	0.999992

rad53	1.32205e-06	0.999995	1.73068e-06	0.999994
rad52	1.12386e-06	0.999996	1.47122e-06	0.999995
rad60anti	1.10268e-06	0.999997	1.44350e-06	0.999996
rad56	1.07224e-06	0.999998	1.40365e-06	0.999998
rad6	4.44741e-07	0.999999	5.82207e-07	0.999998
rad64	3.15089e-07	0.999999	4.12479e-07	0.999999
PAH8+H	1.66253e-07	0.999999	2.17640e-07	0.999999
rad43	1.09524e-07	0.999999	1.43377e-07	0.999999
rad68syn	9.28291e-08	0.999999	1.21522e-07	0.999999
rad65	8.88790e-08	0.999999	1.16350e-07	0.999999
rad58	8.42075e-08	0.999999	1.10235e-07	1.000000
rad42	7.16669e-08	0.999999	9.38181e-08	1.000000
rad68anti	6.10169e-08	1.000000	7.98761e-08	1.000000
rad40syn	2.48115e-08	1.000000	3.24804e-08	1.000000
rad71	2.35737e-08	1.000000	3.08600e-08	1.000000
rad73	2.32930e-08	1.000000	3.04926e-08	1.000000
rad11	1.40920e-08	1.000000	1.84476e-08	1.000000
rad7	1.34114e-08	1.000000	1.75567e-08	1.000000
rad40anti	1.33701e-08	1.000000	1.75026e-08	1.000000
rad61	9.14986e-09	1.000000	1.19780e-08	1.000000
rad23	5.80833e-09	1.000000	7.60361e-09	1.000000
rad41	4.14365e-09	1.000000	5.42441e-09	1.000000
rad9	2.99653e-09	1.000000	3.92271e-09	1.000000
rad13	1.90602e-09	1.000000	2.49514e-09	1.000000
rad45	1.60450e-09	1.000000	2.10043e-09	1.000000
rad28	7.67797e-10	1.000000	1.00512e-09	1.000000
rad72	4.05558e-10	1.000000	5.30912e-10	1.000000
rad21	2.43078e-10	1.000000	3.18211e-10	1.000000
rad36	1.57494e-10	1.000000	2.06173e-10	1.000000
rad2	1.32927e-10	1.000000	1.74013e-10	1.000000
rad10	1.26310e-10	1.000000	1.65351e-10	1.000000
rad20	8.80827e-11	1.000000	1.15308e-10	1.000000
rad26	6.62136e-11	1.000000	8.66796e-11	1.000000
rad33	6.33877e-11	1.000000	8.29795e-11	1.000000
rad1	3.22465e-11	1.000000	4.22135e-11	1.000000
rad15	3.21270e-11	1.000000	4.20571e-11	1.000000
rad22	3.09168e-11	1.000000	4.04728e-11	1.000000
rad18	2.38816e-11	1.000000	3.12631e-11	1.000000
rad3	1.94206e-11	1.000000	2.54233e-11	1.000000
rad4	1.56008e-11	1.000000	2.04228e-11	1.000000
rad25	1.37868e-11	1.000000	1.80482e-11	1.000000
rad12	6.49280e-12	1.000000	8.49961e-12	1.000000
rad24	6.18593e-12	1.000000	8.09791e-12	1.000000
rad14	7.01823e-13	1.000000	9.18748e-13	1.000000
rad27	1.17057e-13	1.000000	1.53237e-13	1.000000
rad8	9.76907e-14	1.000000	1.27886e-13	1.000000
rad31	2.37736e-14	1.000000	3.11218e-14	1.000000
rad47	2.21874e-15	1.000000	2.90452e-15	1.000000
rad5	1.52020e-15	1.000000	1.99008e-15	1.000000

0.100000000 Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.27399e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.05237e-12 (0.168)
Formation of rad6	2.80256e-12 (0.325)	1.44565e-12 (0.230)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.602)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.601846	0.601846
Phenyl+Allene	0.272048	0.710163	0.000000	0.601846
PhCH2CCH+H	0.0933387	0.803501	0.128221	0.730066
PhCHCCH2+H	0.0656327	0.869134	0.0901605	0.820227
C2H2+PhCH2	0.0475976	0.916732	0.0653857	0.885613
Indene+H	0.0395371	0.956269	0.0543126	0.939925
PhCCH+CH3	0.0276513	0.983920	0.0379851	0.977910
PAH7+H	0.00712605	0.991046	0.00978914	0.987699
Ph+MeAc	0.00488544	0.995932	0.00671121	0.994411
rad39	0.00123375	0.997165	0.00169483	0.996106
rad19anti	0.000564116	0.997729	0.000774932	0.996880
rad19syn	0.000506162	0.998236	0.000695321	0.997576
PhCCCH3+H	0.000461482	0.998697	0.000633945	0.998210
PhcycC3H3_A+H	0.000354604	0.999052	0.000487126	0.998697
PAH9+H	0.000266733	0.999318	0.000366416	0.999063
rad54	0.000215005	0.999533	0.000295356	0.999359
rad38	0.000142767	0.999676	0.000196121	0.999555
rad35	4.88400e-05	0.999725	6.70922e-05	0.999622
PAH1+H	4.24062e-05	0.999767	5.82540e-05	0.999680

rad46	3.79680e-05	0.999805	5.21570e-05	0.999732
rad50	2.38734e-05	0.999829	3.27953e-05	0.999765
rad30	2.30178e-05	0.999852	3.16200e-05	0.999797
PAH10+CH3	2.22278e-05	0.999875	3.05347e-05	0.999827
rad70	2.20507e-05	0.999897	3.02914e-05	0.999858
PAH3+H	2.08054e-05	0.999917	2.85806e-05	0.999886
rad55	1.72027e-05	0.999935	2.36316e-05	0.999910
rad67	1.69165e-05	0.999952	2.32384e-05	0.999933
rad37	1.61425e-05	0.999968	2.21752e-05	0.999955
rad51	6.11511e-06	0.999974	8.40042e-06	0.999964
rad34	5.25683e-06	0.999979	7.22137e-06	0.999971
rad53	4.39536e-06	0.999983	6.03797e-06	0.999977
rad56	3.99327e-06	0.999987	5.48561e-06	0.999982
rad62	2.35600e-06	0.999990	3.23648e-06	0.999986
rad59	2.06482e-06	0.999992	2.83648e-06	0.999988
rad52	2.03225e-06	0.999994	2.79174e-06	0.999991
rad60syn	1.94292e-06	0.999996	2.66902e-06	0.999994
rad60anti	1.30714e-06	0.999997	1.79563e-06	0.999996
rad64	7.88617e-07	0.999998	1.08334e-06	0.999997
PAH8+H	5.90536e-07	0.999998	8.11232e-07	0.999997
rad6	3.62342e-07	0.999999	4.97757e-07	0.999998
rad68syn	2.81748e-07	0.999999	3.87043e-07	0.999998
rad68anti	1.82573e-07	0.999999	2.50804e-07	0.999999
rad65	1.74425e-07	0.999999	2.39611e-07	0.999999
rad42	1.70590e-07	1.000000	2.34341e-07	0.999999
rad58	1.57354e-07	1.000000	2.16160e-07	0.999999
rad43	1.31436e-07	1.000000	1.80555e-07	1.000000
rad71	1.26874e-07	1.000000	1.74289e-07	1.000000
rad73	1.00276e-07	1.000000	1.37751e-07	1.000000
rad40syn	8.39502e-08	1.000000	1.15323e-07	1.000000
rad40anti	5.01057e-08	1.000000	6.88309e-08	1.000000
rad61	2.64257e-08	1.000000	3.63015e-08	1.000000
rad41	7.91887e-09	1.000000	1.08783e-08	1.000000
rad72	4.11073e-09	1.000000	5.64698e-09	1.000000
rad7	2.33048e-09	1.000000	3.20142e-09	1.000000
rad11	1.75618e-09	1.000000	2.41250e-09	1.000000
rad23	9.10631e-10	1.000000	1.25095e-09	1.000000
rad28	8.05687e-10	1.000000	1.10679e-09	1.000000
rad9	2.28156e-10	1.000000	3.13422e-10	1.000000
rad13	1.61104e-10	1.000000	2.21311e-10	1.000000
rad45	1.34093e-10	1.000000	1.84206e-10	1.000000
rad22	9.32409e-11	1.000000	1.28086e-10	1.000000
rad36	2.31122e-11	1.000000	3.17496e-11	1.000000
rad21	1.98052e-11	1.000000	2.72068e-11	1.000000
rad26	1.88975e-11	1.000000	2.59598e-11	1.000000
rad15	1.12852e-11	1.000000	1.55026e-11	1.000000
rad10	9.47125e-12	1.000000	1.30108e-11	1.000000
rad20	6.45190e-12	1.000000	8.86308e-12	1.000000
rad33	5.54090e-12	1.000000	7.61164e-12	1.000000
rad2	3.81710e-12	1.000000	5.24361e-12	1.000000
rad18	3.00650e-12	1.000000	4.13006e-12	1.000000
rad25	1.43089e-12	1.000000	1.96563e-12	1.000000
rad1	9.70118e-13	1.000000	1.33267e-12	1.000000
rad12	7.47122e-13	1.000000	1.02634e-12	1.000000
rad3	6.58782e-13	1.000000	9.04981e-13	1.000000
rad24	6.07027e-13	1.000000	8.33887e-13	1.000000
rad4	4.21351e-13	1.000000	5.78817e-13	1.000000
rad14	7.59675e-14	1.000000	1.04358e-13	1.000000
rad8	2.76593e-14	1.000000	3.79960e-14	1.000000
rad27	6.92574e-15	1.000000	9.51402e-15	1.000000
rad5	6.04263e-15	1.000000	8.30084e-15	1.000000
rad47	1.43549e-15	1.000000	1.97196e-15	1.000000

0.100000000 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.44111e-11 (1.00)	1.02930e-11 (1.00)
Formation of rad11	3.16882e-12 (0.220)	1.47449e-12 (0.143)
Formation of rad6	4.53302e-12 (0.315)	2.10927e-12 (0.205)
H-abstraction	6.70922e-12 (0.466)	6.70922e-12 (0.652)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.651825	0.651825
Phenyl+Allene	0.285759	0.751319	0.000000	0.651825
PhCH2CCH+H	0.0971788	0.848498	0.136059	0.787884
PhCHCCH2+H	0.0592993	0.907797	0.0830241	0.870908
C2H2+PhCH2	0.0319942	0.939791	0.0447945	0.915702
Indene+H	0.0233046	0.963096	0.0326284	0.948331

PhCCH+CH3	0.0216465	0.984742	0.0303070	0.978638
PAH7+H	0.00659328	0.991335	0.00923117	0.987869
Ph+MeAc	0.00420938	0.995545	0.00589349	0.993762
rad39	0.00101472	0.996559	0.00142069	0.995183
rad19syn	0.000746789	0.997306	0.00104557	0.996229
PhcycC3H3_A+H	0.000656340	0.997963	0.000918932	0.997148
rad19anti	0.000529228	0.998492	0.000740966	0.997888
rad54	0.000330237	0.998822	0.000462363	0.998351
PhCCCH3+H	0.000291962	0.999114	0.000408772	0.998760
PAH9+H	0.000279546	0.999394	0.000391391	0.999151
rad38	0.000156415	0.999550	0.000218995	0.999370
PAH1+H	6.96995e-05	0.999620	9.75855e-05	0.999468
rad35	5.18638e-05	0.999672	7.26140e-05	0.999540
rad46	4.57415e-05	0.999717	6.40420e-05	0.999604
rad50	3.87507e-05	0.999756	5.42544e-05	0.999659
PAH10+CH3	3.34471e-05	0.999790	4.68289e-05	0.999705
rad70	3.20125e-05	0.999822	4.48203e-05	0.999750
rad55	2.86890e-05	0.999850	4.01672e-05	0.999790
PAH3+H	2.79050e-05	0.999878	3.90694e-05	0.999829
rad67	2.51585e-05	0.999903	3.52242e-05	0.999865
rad30	1.88901e-05	0.999922	2.64479e-05	0.999891
rad37	1.66057e-05	0.999939	2.32494e-05	0.999914
rad51	1.22972e-05	0.999951	1.72171e-05	0.999932
rad56	1.03252e-05	0.999961	1.44561e-05	0.999946
rad53	9.90985e-06	0.999971	1.38746e-05	0.999960
rad34	8.56178e-06	0.999980	1.19873e-05	0.999972
rad52	3.64126e-06	0.999984	5.09809e-06	0.999977
rad62	3.41509e-06	0.999987	4.78142e-06	0.999982
rad59	2.58714e-06	0.999990	3.62224e-06	0.999985
rad60syn	2.06844e-06	0.999992	2.89600e-06	0.999988
PAH8+H	1.81458e-06	0.999993	2.54058e-06	0.999991
rad64	1.47577e-06	0.999995	2.06621e-06	0.999993
rad60anti	1.42207e-06	0.999996	1.99102e-06	0.999995
rad68syn	6.53898e-07	0.999997	9.15513e-07	0.999996
rad71	4.98713e-07	0.999997	6.98241e-07	0.999996
rad68anti	4.21794e-07	0.999998	5.90547e-07	0.999997
rad73	3.38952e-07	0.999998	4.74563e-07	0.999998
rad65	3.37801e-07	0.999999	4.72951e-07	0.999998
rad42	3.12146e-07	0.999999	4.37033e-07	0.999998
rad58	2.75721e-07	0.999999	3.86032e-07	0.999999
rad40syn	2.27525e-07	0.999999	3.18555e-07	0.999999
rad43	1.62532e-07	1.000000	2.27559e-07	0.999999
rad40anti	1.42662e-07	1.000000	1.99739e-07	1.000000
rad6	6.52503e-08	1.000000	9.13563e-08	1.000000
rad61	5.98893e-08	1.000000	8.38507e-08	1.000000
rad72	2.10614e-08	1.000000	2.94879e-08	1.000000
rad41	1.34672e-08	1.000000	1.88553e-08	1.000000
rad7	5.28671e-10	1.000000	7.40186e-10	1.000000
rad11	4.14568e-10	1.000000	5.80433e-10	1.000000
rad23	3.91458e-10	1.000000	5.48077e-10	1.000000
rad28	2.19335e-10	1.000000	3.07089e-10	1.000000
rad9	7.75830e-11	1.000000	1.08623e-10	1.000000
rad13	4.89902e-11	1.000000	6.85905e-11	1.000000
rad45	4.07510e-11	1.000000	5.70551e-11	1.000000
rad22	2.75086e-11	1.000000	3.85145e-11	1.000000
rad36	7.18613e-12	1.000000	1.00612e-11	1.000000
rad21	7.16507e-12	1.000000	1.00317e-11	1.000000
rad15	4.00403e-12	1.000000	5.60601e-12	1.000000
rad26	3.46830e-12	1.000000	4.85593e-12	1.000000
rad33	2.26341e-12	1.000000	3.16897e-12	1.000000
rad20	1.89557e-12	1.000000	2.65397e-12	1.000000
rad10	1.26945e-12	1.000000	1.77734e-12	1.000000
rad18	6.67141e-13	1.000000	9.34057e-13	1.000000
rad25	5.79846e-13	1.000000	8.11837e-13	1.000000
rad2	4.82044e-13	1.000000	6.74903e-13	1.000000
rad12	4.14756e-13	1.000000	5.80694e-13	1.000000
rad24	2.85159e-13	1.000000	3.99249e-13	1.000000
rad3	1.65470e-13	1.000000	2.31672e-13	1.000000
rad1	1.26709e-13	1.000000	1.77403e-13	1.000000
rad4	1.05133e-13	1.000000	1.47196e-13	1.000000
rad14	2.92955e-14	1.000000	4.10161e-14	1.000000
rad8	2.34712e-14	1.000000	3.28618e-14	1.000000
rad5	3.87346e-15	1.000000	5.42318e-15	1.000000
rad47	2.86770e-15	1.000000	4.01502e-15	1.000000
rad27	1.90346e-15	1.000000	2.66501e-15	1.000000

0.10000000 Pa, 2250.00000 K

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Rate constant | True (fraction) | Effective (fraction)

Total	2.23655e-11 (1.00)	1.58437e-11 (1.00)
Formation of rad11	4.62280e-12 (0.207)	1.98925e-12 (0.126)
Formation of rad6	6.82518e-12 (0.305)	2.93696e-12 (0.185)
H-abstraction	1.09175e-11 (0.488)	1.09175e-11 (0.689)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.689074	0.689074
Phenyl+Allene	0.291600	0.779740	0.000000	0.689074
PhCH2CCH+H	0.0967415	0.876482	0.136563	0.825637
PhCHCCH2+H	0.0532744	0.929756	0.0752040	0.900841
C2H2+PhCH2	0.0232641	0.953020	0.0328403	0.933682
PhCCH+CH3	0.0176492	0.970669	0.0249142	0.958596
Indene+H	0.0145378	0.985207	0.0205220	0.979118
PAH7+H	0.00604332	0.991250	0.00853097	0.987649
Ph+MeAc	0.00373478	0.994985	0.00527212	0.992921
PhcycC3H3_A+H	0.00104439	0.996030	0.00147430	0.994395
rad19syn	0.000992650	0.997022	0.00140125	0.995797
rad39	0.000833753	0.997856	0.00117695	0.996974
rad19anti	0.000463520	0.998320	0.000654319	0.997628
rad54	0.000448432	0.998768	0.000633020	0.998261
PAH9+H	0.000276005	0.999044	0.000389615	0.998650
PhCCCH3+H	0.000209665	0.999254	0.000295970	0.998946
rad38	0.000160719	0.999414	0.000226877	0.999173
PAH1+H	9.95936e-05	0.999514	0.000140589	0.999314
rad50	5.46334e-05	0.999569	7.71218e-05	0.999391
rad35	5.24984e-05	0.999621	7.41079e-05	0.999465
rad46	5.06984e-05	0.999672	7.15674e-05	0.999537
PAH10+CH3	4.32190e-05	0.999715	6.10093e-05	0.999598
rad55	4.15448e-05	0.999757	5.86459e-05	0.999656
rad70	4.13232e-05	0.999798	5.83331e-05	0.999715
PAH3+H	3.54273e-05	0.999833	5.00103e-05	0.999765
rad67	3.21710e-05	0.999865	4.54135e-05	0.999810
rad56	2.10959e-05	0.999887	2.97796e-05	0.999840
rad51	2.05293e-05	0.999907	2.89798e-05	0.999869
rad53	1.82253e-05	0.999925	2.57274e-05	0.999895
rad30	1.61770e-05	0.999942	2.28359e-05	0.999917
rad37	1.58091e-05	0.999957	2.23166e-05	0.999940
rad34	1.21378e-05	0.999969	1.71341e-05	0.999957
rad52	5.53704e-06	0.999975	7.81624e-06	0.999965
rad62	4.54171e-06	0.999980	6.41123e-06	0.999971
PAH8+H	4.26415e-06	0.999984	6.01940e-06	0.999977
rad59	3.10133e-06	0.999987	4.37793e-06	0.999982
rad64	2.31389e-06	0.999989	3.26637e-06	0.999985
rad60syn	2.18352e-06	0.999991	3.08232e-06	0.999988
rad60anti	1.52762e-06	0.999993	2.15643e-06	0.999990
rad71	1.42646e-06	0.999994	2.01364e-06	0.999992
rad68syn	1.22834e-06	0.999996	1.73397e-06	0.999994
rad73	8.53035e-07	0.999996	1.20417e-06	0.999995
rad68anti	7.89692e-07	0.999997	1.11475e-06	0.999996
rad65	5.43590e-07	0.999998	7.67350e-07	0.999997
rad42	4.97946e-07	0.999998	7.02916e-07	0.999998
rad40syn	4.83631e-07	0.999999	6.82709e-07	0.999998
rad58	4.30303e-07	0.999999	6.07428e-07	0.999999
rad40anti	3.15360e-07	1.000000	4.45171e-07	0.999999
rad43	2.01351e-07	1.000000	2.84233e-07	1.000000
rad61	1.06763e-07	1.000000	1.50709e-07	1.000000
rad72	7.85730e-08	1.000000	1.10916e-07	1.000000
rad41	2.11926e-08	1.000000	2.99161e-08	1.000000
rad6	1.25207e-08	1.000000	1.76746e-08	1.000000
rad7	1.69371e-10	1.000000	2.39089e-10	1.000000
rad11	1.29449e-10	1.000000	1.82734e-10	1.000000
rad23	9.84905e-11	1.000000	1.39032e-10	1.000000
rad28	4.49922e-11	1.000000	6.35122e-11	1.000000
rad9	2.81936e-11	1.000000	3.97991e-11	1.000000
rad13	1.82870e-11	1.000000	2.58145e-11	1.000000
rad45	1.41335e-11	1.000000	1.99513e-11	1.000000
rad22	6.88073e-12	1.000000	9.71305e-12	1.000000
rad21	2.97996e-12	1.000000	4.20661e-12	1.000000
rad36	2.54203e-12	1.000000	3.58843e-12	1.000000
rad15	1.61096e-12	1.000000	2.27408e-12	1.000000
rad33	1.06528e-12	1.000000	1.50378e-12	1.000000
rad26	8.89833e-13	1.000000	1.25612e-12	1.000000
rad20	6.77139e-13	1.000000	9.55870e-13	1.000000
rad10	3.23890e-13	1.000000	4.57213e-13	1.000000
rad25	2.68303e-13	1.000000	3.78745e-13	1.000000
rad12	2.31790e-13	1.000000	3.27203e-13	1.000000
rad18	2.03158e-13	1.000000	2.86784e-13	1.000000
rad24	1.45642e-13	1.000000	2.05592e-13	1.000000
rad2	8.98350e-14	1.000000	1.26814e-13	1.000000

rad3	5.37212e-14	1.000000	7.58348e-14	1.000000
rad4	3.35403e-14	1.000000	4.73466e-14	1.000000
rad1	2.38967e-14	1.000000	3.37333e-14	1.000000
rad8	2.01389e-14	1.000000	2.84286e-14	1.000000
rad14	1.40769e-14	1.000000	1.98714e-14	1.000000
rad47	4.71871e-15	1.000000	6.66109e-15	1.000000
rad5	2.23213e-15	1.000000	3.15095e-15	1.000000
rad27	7.38204e-16	1.000000	1.04207e-15	1.000000

0.100000000 Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.28090e-11 (1.00)	2.31980e-11 (1.00)
Formation of rad11	6.43164e-12 (0.196)	2.60906e-12 (0.112)
Formation of rad6	9.73932e-12 (0.297)	3.95085e-12 (0.170)
H-abstraction	1.66381e-11 (0.507)	1.66381e-11 (0.717)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.717221	0.717221
Phenyl+Allene	0.292939	0.800058	0.00000	0.717221
PhCH2CCH+H	0.0943957	0.894453	0.133505	0.850725
PhCHCCH2+H	0.0481939	0.942647	0.0681609	0.918886
C2H2+PhCH2	0.0183497	0.960997	0.0259521	0.944838
PhCCH+CH3	0.0148752	0.975872	0.0210380	0.965876
Indene+H	0.00953292	0.985405	0.0134824	0.979359
PAH7+H	0.00553047	0.990936	0.00782174	0.987180
Ph+MeAc	0.00339482	0.994330	0.00480131	0.991982
PhcycC3H3_A+H	0.00149309	0.995824	0.00211169	0.994093
rad19syn	0.00122618	0.997050	0.00173419	0.995828
rad39	0.000692493	0.997742	0.000979395	0.996807
rad54	0.000558297	0.998301	0.000789599	0.997597
rad19anti	0.000392540	0.998693	0.000555170	0.998152
PAH9+H	0.000261381	0.998954	0.000369672	0.998521
PhCCCH3+H	0.000164587	0.999119	0.000232776	0.998754
rad38	0.000157797	0.999277	0.000223174	0.998977
PAH1+H	0.000129618	0.999406	0.000183319	0.999161
rad50	6.95416e-05	0.999476	9.83530e-05	0.999259
rad55	5.44673e-05	0.999530	7.70336e-05	0.999336
rad46	5.29591e-05	0.999583	7.49001e-05	0.999411
rad35	5.14100e-05	0.999635	7.27094e-05	0.999484
PAH10+CH3	5.04331e-05	0.999685	7.13280e-05	0.999555
rad70	4.95223e-05	0.999735	7.00399e-05	0.999625
PAH3+H	4.31617e-05	0.999778	6.10439e-05	0.999686
rad67	3.73882e-05	0.999815	5.28783e-05	0.999739
rad56	3.65112e-05	0.999852	5.16381e-05	0.999791
rad51	2.99348e-05	0.999882	4.23369e-05	0.999833
rad53	2.90213e-05	0.999911	4.10449e-05	0.999874
rad34	1.57208e-05	0.999926	2.22340e-05	0.999896
rad30	1.43454e-05	0.999941	2.02888e-05	0.999917
rad37	1.43019e-05	0.999955	2.02272e-05	0.999937
PAH8+H	8.32886e-06	0.999963	1.17795e-05	0.999949
rad52	7.47627e-06	0.999971	1.05737e-05	0.999959
rad62	5.70269e-06	0.999977	8.06535e-06	0.999967
rad59	3.60017e-06	0.999980	5.09173e-06	0.999972
rad64	3.22135e-06	0.999983	4.55597e-06	0.999977
rad71	3.21475e-06	0.999987	4.54664e-06	0.999981
rad60syn	2.29248e-06	0.999989	3.24226e-06	0.999985
rad68syn	1.99920e-06	0.999991	2.82747e-06	0.999987
rad73	1.73026e-06	0.999993	2.44711e-06	0.999990
rad60anti	1.62672e-06	0.999994	2.30068e-06	0.999992
rad68anti	1.28206e-06	0.999996	1.81322e-06	0.999994
rad40syn	8.70434e-07	0.999996	1.23105e-06	0.999995
rad65	7.65686e-07	0.999997	1.08292e-06	0.999996
rad42	7.25374e-07	0.999998	1.02590e-06	0.999997
rad58	6.16762e-07	0.999999	8.72293e-07	0.999998
rad40anti	5.85898e-07	0.999999	8.28640e-07	0.999999
rad43	2.45120e-07	0.999999	3.46673e-07	0.999999
rad72	2.19472e-07	1.000000	3.10399e-07	1.000000
rad61	1.61750e-07	1.000000	2.28765e-07	1.000000
rad41	3.09947e-08	1.000000	4.38359e-08	1.000000
rad6	3.38907e-09	1.000000	4.79317e-09	1.000000
rad7	6.63014e-11	1.000000	9.37702e-11	1.000000
rad11	4.82058e-11	1.000000	6.81778e-11	1.000000
rad23	2.81036e-11	1.000000	3.97472e-11	1.000000
rad28	1.20694e-11	1.000000	1.70698e-11	1.000000
rad9	1.09971e-11	1.000000	1.55532e-11	1.000000
rad13	7.91513e-12	1.000000	1.11944e-11	1.000000
rad45	5.50874e-12	1.000000	7.79108e-12	1.000000

rad22	2.16153e-12	1.000000	3.05707e-12	1.00000
rad21	1.39356e-12	1.000000	1.97092e-12	1.00000
rad36	1.00764e-12	1.000000	1.42511e-12	1.00000
rad15	6.97881e-13	1.000000	9.87019e-13	1.00000
rad33	5.56581e-13	1.000000	7.87179e-13	1.00000
rad26	3.11054e-13	1.000000	4.39926e-13	1.00000
rad20	2.88998e-13	1.000000	4.08732e-13	1.00000
rad25	1.37170e-13	1.000000	1.94001e-13	1.00000
rad12	1.32606e-13	1.000000	1.87546e-13	1.00000
rad10	1.15949e-13	1.000000	1.63988e-13	1.00000
rad24	7.99114e-14	1.000000	1.13019e-13	1.00000
rad18	7.64824e-14	1.000000	1.08170e-13	1.00000
rad2	2.42882e-14	1.000000	3.43509e-14	1.00000
rad3	2.13760e-14	1.000000	3.02322e-14	1.00000
rad8	1.74700e-14	1.000000	2.47079e-14	1.00000
rad4	1.30604e-14	1.000000	1.84714e-14	1.00000
rad14	7.77442e-15	1.000000	1.09954e-14	1.00000
rad47	6.74967e-15	1.000000	9.54610e-15	1.00000
rad1	6.32677e-15	1.000000	8.94799e-15	1.00000
rad5	1.46636e-15	1.000000	2.07388e-15	1.00000
rad27	3.67510e-16	1.000000	5.19771e-16	1.00000

0.100000000 Pa, 2750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.60596e-11 (1.00)	3.26255e-11 (1.00)
Formation of rad11	8.62280e-12 (0.187)	3.34633e-12 (0.103)
Formation of rad6	1.33313e-11 (0.289)	5.17360e-12 (0.159)
H-abstraction	2.41055e-11 (0.523)	2.41055e-11 (0.739)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.738856	0.738856
Phenyl+Allene	0.291669	0.815024	0.00000	0.738856
PhCH2CCH+H	0.0913925	0.906416	0.129025	0.867881
PhCHCCH2+H	0.0440897	0.950506	0.0622446	0.930126
C2H2+PhCH2	0.0155259	0.966032	0.0219190	0.952045
PhCCH+CH3	0.0128664	0.978898	0.0181644	0.972029
Indene+H	0.00652675	0.985425	0.00921427	0.979424
PAH7+H	0.00506746	0.990493	0.00715408	0.986578
Ph+MeAc	0.00315047	0.993643	0.00444775	0.991026
PhcycC3H3_A+H	0.00197301	0.995616	0.00278544	0.993811
rad19syn	0.00143568	0.997052	0.00202686	0.995838
rad54	0.000652594	0.997704	0.000921315	0.996759
rad39	0.000584043	0.998288	0.000824532	0.997584
rad19anti	0.000328573	0.998617	0.000463869	0.998048
PAH9+H	0.000240059	0.998857	0.000338907	0.998386
PAH1+H	0.000158291	0.999015	0.000223471	0.998610
rad38	0.000149711	0.999165	0.000211358	0.998821
PhCCCH3+H	0.000136861	0.999302	0.000193216	0.999015
rad50	8.19601e-05	0.999384	0.000115709	0.999130
rad55	6.64334e-05	0.999450	9.37887e-05	0.999224
rad70	5.64830e-05	0.999507	7.97407e-05	0.999304
rad56	5.59920e-05	0.999563	7.90477e-05	0.999383
PAH10+CH3	5.49972e-05	0.999618	7.76435e-05	0.999460
rad46	5.29186e-05	0.999671	7.47090e-05	0.999535
PAH3+H	5.07704e-05	0.999721	7.16761e-05	0.999607
rad35	4.92117e-05	0.999771	6.94754e-05	0.999676
rad53	4.15959e-05	0.999812	5.87239e-05	0.999735
rad67	4.08893e-05	0.999853	5.77263e-05	0.999793
rad51	3.94231e-05	0.999893	5.56565e-05	0.999848
rad34	1.91382e-05	0.999912	2.70187e-05	0.999875
PAH8+H	1.42400e-05	0.999926	2.01036e-05	0.999896
rad30	1.30159e-05	0.999939	1.83754e-05	0.999914
rad37	1.25497e-05	0.999952	1.77173e-05	0.999932
rad52	9.23200e-06	0.999961	1.30335e-05	0.999945
rad62	6.96508e-06	0.999968	9.83308e-06	0.999954
rad71	6.06269e-06	0.999974	8.55914e-06	0.999963
rad64	4.12924e-06	0.999978	5.82954e-06	0.999969
rad59	4.06487e-06	0.999982	5.73866e-06	0.999975
rad73	2.98826e-06	0.999985	4.21875e-06	0.999979
rad68syn	2.93858e-06	0.999988	4.14861e-06	0.999983
rad60syn	2.38752e-06	0.999990	3.37063e-06	0.999986
rad68anti	1.88086e-06	0.999992	2.65533e-06	0.999989
rad60anti	1.71401e-06	0.999994	2.41979e-06	0.999991
rad40syn	1.39059e-06	0.999995	1.96319e-06	0.999993
rad42	1.00618e-06	0.999996	1.42050e-06	0.999995
rad65	9.77109e-07	0.999997	1.37946e-06	0.999996
rad40anti	9.60893e-07	0.999998	1.35656e-06	0.999998

rad58	8.26832e-07	0.999999	1.16730e-06	0.999999
rad72	4.93199e-07	1.000000	6.96287e-07	0.999999
rad43	2.90363e-07	1.000000	4.09925e-07	1.000000
rad61	2.19014e-07	1.000000	3.09197e-07	1.000000
rad41	4.25216e-08	1.000000	6.00307e-08	1.000000
rad6	1.15110e-09	1.000000	1.62509e-09	1.000000
rad7	2.97827e-11	1.000000	4.20465e-11	1.000000
rad11	2.06162e-11	1.000000	2.91052e-11	1.000000
rad23	9.64621e-12	1.000000	1.36182e-11	1.000000
rad9	4.61506e-12	1.000000	6.51540e-12	1.000000
rad28	4.09733e-12	1.000000	5.78449e-12	1.000000
rad13	3.84898e-12	1.000000	5.43388e-12	1.000000
rad45	2.37082e-12	1.000000	3.34705e-12	1.000000
rad22	8.06398e-13	1.000000	1.13845e-12	1.000000
rad21	7.20326e-13	1.000000	1.01693e-12	1.000000
rad36	4.39835e-13	1.000000	6.20945e-13	1.000000
rad15	3.21932e-13	1.000000	4.54494e-13	1.000000
rad33	3.15104e-13	1.000000	4.44853e-13	1.000000
rad20	1.44423e-13	1.000000	2.03892e-13	1.000000
rad26	1.26781e-13	1.000000	1.78985e-13	1.000000
rad12	7.84782e-14	1.000000	1.10794e-13	1.000000
rad25	7.63319e-14	1.000000	1.07763e-13	1.000000
rad10	4.96955e-14	1.000000	7.01586e-14	1.000000
rad24	4.65717e-14	1.000000	6.57487e-14	1.000000
rad18	3.38732e-14	1.000000	4.78211e-14	1.000000
rad8	1.52997e-14	1.000000	2.15997e-14	1.000000
rad3	9.92666e-15	1.000000	1.40141e-14	1.000000
rad47	8.69678e-15	1.000000	1.22779e-14	1.000000
rad2	8.62709e-15	1.000000	1.21795e-14	1.000000
rad4	5.95892e-15	1.000000	8.41266e-15	1.000000
rad14	4.75126e-15	1.000000	6.70768e-15	1.000000
rad1	2.15400e-15	1.000000	3.04094e-15	1.000000
rad5	1.02713e-15	1.000000	1.45008e-15	1.000000
rad27	2.15828e-16	1.000000	3.04700e-16	1.000000

0.10000000 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.43911e-11 (1.00)
Formation of rad11	1.12221e-11 (0.180)	4.21269e-12 (0.0949)
Formation of rad6	1.76534e-11 (0.283)	6.62699e-12 (0.149)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.756)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.755814	0.755814
Phenyl+Allene	0.288911	0.826362	0.000000	0.755814
PhCH2CCH+H	0.0883066	0.914669	0.124185	0.879999
PhCHCCH2+H	0.0408111	0.955480	0.0573925	0.937392
C2H2+PhCH2	0.0138651	0.969345	0.0194984	0.956890
PhCCH+CH3	0.0113582	0.980703	0.0159730	0.972863
PAH7+H	0.00465329	0.985356	0.00654386	0.979407
Indene+H	0.00463895	0.989995	0.00652370	0.985931
Ph+MeAc	0.00297587	0.992971	0.00418496	0.990116
PhcycC3H3_A+H	0.00245642	0.995427	0.00345445	0.993570
rad19syn	0.00161454	0.997042	0.00227052	0.995841
rad54	0.000727890	0.997770	0.00102362	0.996864
rad39	0.000500510	0.998270	0.000703861	0.997568
rad19anti	0.000275358	0.998546	0.000387232	0.997955
PAH9+H	0.000215435	0.998761	0.000302964	0.998258
PAH1+H	0.000185098	0.998946	0.000260302	0.998519
rad38	0.000138297	0.999085	0.000194486	0.998713
PhCCCH3+H	0.000118094	0.999203	0.000166074	0.998879
rad50	9.10199e-05	0.999294	0.000128001	0.999007
rad56	7.84307e-05	0.999372	0.000110297	0.999117
rad55	7.67854e-05	0.999449	0.000107983	0.999225
rad70	6.22156e-05	0.999511	8.74935e-05	0.999313
PAH3+H	5.79162e-05	0.999569	8.14472e-05	0.999394
PAH10+CH3	5.73435e-05	0.999626	8.06419e-05	0.999475
rad53	5.50942e-05	0.999682	7.74787e-05	0.999552
rad46	5.10964e-05	0.999733	7.18563e-05	0.999624
rad51	4.79927e-05	0.999781	6.74918e-05	0.999692
rad35	4.64038e-05	0.999827	6.52572e-05	0.999757
rad67	4.30004e-05	0.999870	6.04712e-05	0.999818
rad34	2.22803e-05	0.999892	3.13327e-05	0.999849
PAH8+H	2.20424e-05	0.999914	3.09982e-05	0.999880
rad30	1.19659e-05	0.999926	1.68276e-05	0.999897
rad37	1.08360e-05	0.999937	1.52386e-05	0.999912
rad52	1.06405e-05	0.999948	1.49636e-05	0.999927

rad71	9.97852e-06	0.999958	1.40327e-05	0.999941
rad62	8.52399e-06	0.999966	1.19872e-05	0.999953
rad64	4.99011e-06	0.999971	7.01754e-06	0.999960
rad73	4.56450e-06	0.999976	6.41901e-06	0.999966
rad59	4.47702e-06	0.999980	6.29599e-06	0.999973
rad68syn	4.00554e-06	0.999984	5.63295e-06	0.999978
rad68anti	2.55993e-06	0.999987	3.60001e-06	0.999982
rad60syn	2.46101e-06	0.999989	3.46090e-06	0.999985
rad40syn	2.03324e-06	0.999991	2.85932e-06	0.999988
rad60anti	1.78407e-06	0.999993	2.50894e-06	0.999991
rad40anti	1.43624e-06	0.999995	2.01978e-06	0.999993
rad42	1.37800e-06	0.999996	1.93787e-06	0.999995
rad65	1.15674e-06	0.999997	1.62672e-06	0.999996
rad58	1.05023e-06	0.999998	1.47693e-06	0.999998
rad72	9.39265e-07	0.999999	1.32088e-06	0.999999
rad43	3.36095e-07	0.999999	4.72649e-07	1.000000
rad61	2.73990e-07	1.000000	3.85311e-07	1.000000
rad41	5.56844e-08	1.000000	7.83087e-08	1.000000
rad6	4.56787e-10	1.000000	6.42377e-10	1.000000
rad7	1.48628e-11	1.000000	2.09015e-11	1.000000
rad11	9.89720e-12	1.000000	1.39184e-11	1.000000
rad23	3.75557e-12	1.000000	5.28145e-12	1.000000
rad9	2.08380e-12	1.000000	2.93045e-12	1.000000
rad13	2.05571e-12	1.000000	2.89092e-12	1.000000
rad28	1.62283e-12	1.000000	2.28217e-12	1.000000
rad45	1.10790e-12	1.000000	1.55803e-12	1.000000
rad21	4.05059e-13	1.000000	5.69632e-13	1.000000
rad22	3.41990e-13	1.000000	4.80939e-13	1.000000
rad36	2.07938e-13	1.000000	2.92422e-13	1.000000
rad33	1.89986e-13	1.000000	2.67176e-13	1.000000
rad15	1.57963e-13	1.000000	2.22142e-13	1.000000
rad20	8.23198e-14	1.000000	1.15766e-13	1.000000
rad26	5.68505e-14	1.000000	7.99484e-14	1.000000
rad12	4.82938e-14	1.000000	6.79152e-14	1.000000
rad25	4.56489e-14	1.000000	6.41957e-14	1.000000
rad24	2.85392e-14	1.000000	4.01344e-14	1.000000
rad10	2.38264e-14	1.000000	3.35069e-14	1.000000
rad18	1.70147e-14	1.000000	2.39277e-14	1.000000
rad8	1.34845e-14	1.000000	1.89631e-14	1.000000
rad47	1.03449e-14	1.000000	1.45480e-14	1.000000
rad3	5.17837e-15	1.000000	7.28231e-15	1.000000
rad2	3.71851e-15	1.000000	5.22931e-15	1.000000
rad14	3.16524e-15	1.000000	4.45126e-15	1.000000
rad4	3.08445e-15	1.000000	4.33765e-15	1.000000
rad1	8.83348e-16	1.000000	1.24225e-15	1.000000
rad5	7.46762e-16	1.000000	1.05017e-15	1.000000
rad27	1.40685e-16	1.000000	1.97844e-16	1.000000

0.100000000 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.22129e-11 (1.00)	5.87536e-11 (1.00)
Formation of rad11	1.42538e-11 (0.173)	5.21849e-12 (0.0888)
Formation of rad6	2.27549e-11 (0.277)	8.33083e-12 (0.142)
H-abstraction	4.52043e-11 (0.550)	4.52043e-11 (0.769)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.549844	0.549844	0.769388	0.769388
Phenyl+Allene	0.285349	0.835192	0.000000	0.769388
PhCH2CCH+H	0.0853725	0.920565	0.119460	0.888848
PhCHCCH2+H	0.0381839	0.958749	0.0534299	0.942278
C2H2+PhCH2	0.0128678	0.971617	0.0180057	0.960283
PhCCH+CH3	0.0101926	0.981809	0.0142623	0.974546
PAH7+H	0.00428274	0.986092	0.00599276	0.980539
Indene+H	0.00340695	0.989499	0.00476729	0.985306
PhcycC3H3_A+H	0.00292038	0.992419	0.00408643	0.989392
Ph+MeAc	0.00285191	0.995271	0.00399061	0.993383
rad19syn	0.00176005	0.997031	0.00246280	0.995846
rad54	0.000783510	0.997815	0.00109635	0.996942
rad39	0.000435199	0.998250	0.000608967	0.997551
rad19anti	0.000232598	0.998483	0.000325470	0.997876
PAH1+H	0.000210285	0.998693	0.000294248	0.998171
PAH9+H	0.000189946	0.998883	0.000265788	0.998436
rad38	0.000125074	0.999008	0.000175014	0.998611
PhCCCH3+H	0.000104499	0.999112	0.000146224	0.998758
rad56	0.000102496	0.999215	0.000143420	0.998901
rad50	9.64743e-05	0.999311	0.000134995	0.999036
rad55	8.51952e-05	0.999397	0.000119212	0.999155

rad53	6.86880e-05	0.999465	9.61137e-05	0.999251
rad70	6.67834e-05	0.999532	9.34486e-05	0.999345
PAH3+H	6.43467e-05	0.999596	9.00394e-05	0.999435
PAH10+CH3	5.80427e-05	0.999654	8.12183e-05	0.999516
rad51	5.49240e-05	0.999709	7.68541e-05	0.999593
rad46	4.80263e-05	0.999757	6.72021e-05	0.999660
rad67	4.40669e-05	0.999802	6.16619e-05	0.999722
rad35	4.33473e-05	0.999845	6.06552e-05	0.999783
PAH8+H	3.16111e-05	0.999876	4.42329e-05	0.999827
rad34	2.50786e-05	0.999902	3.50921e-05	0.999862
rad71	1.47743e-05	0.999916	2.06734e-05	0.999883
rad52	1.16170e-05	0.999928	1.62555e-05	0.999899
rad30	1.10774e-05	0.999939	1.55003e-05	0.999914
rad62	1.06705e-05	0.999950	1.49310e-05	0.999929
rad37	9.29424e-06	0.999959	1.30053e-05	0.999942
rad73	6.33743e-06	0.999965	8.86788e-06	0.999951
rad64	5.77649e-06	0.999971	8.08292e-06	0.999959
rad68syn	5.15348e-06	0.999976	7.21118e-06	0.999966
rad59	4.82486e-06	0.999981	6.75136e-06	0.999973
rad68anti	3.28964e-06	0.999984	4.60314e-06	0.999978
rad40syn	2.77792e-06	0.999987	3.88709e-06	0.999982
rad60syn	2.50929e-06	0.999990	3.51119e-06	0.999985
rad40anti	1.99952e-06	0.999992	2.79788e-06	0.999988
rad42	1.90464e-06	0.999994	2.66512e-06	0.999991
rad60anti	1.83422e-06	0.999995	2.56658e-06	0.999993
rad72	1.57365e-06	0.999997	2.20198e-06	0.999995
rad65	1.29208e-06	0.999998	1.80798e-06	0.999997
rad58	1.27682e-06	1.000000	1.78663e-06	0.999999
rad43	3.85029e-07	1.000000	5.38764e-07	1.000000
rad61	3.23853e-07	1.000000	4.53160e-07	1.000000
rad41	7.10639e-08	1.000000	9.94383e-08	1.000000
rad6	2.04461e-10	1.000000	2.86098e-10	1.000000
rad7	8.06189e-12	1.000000	1.12809e-11	1.000000
rad11	5.23419e-12	1.000000	7.32409e-12	1.000000
rad23	1.60729e-12	1.000000	2.24905e-12	1.000000
rad13	1.18542e-12	1.000000	1.65874e-12	1.000000
rad9	1.01015e-12	1.000000	1.41348e-12	1.000000
rad28	7.21137e-13	1.000000	1.00907e-12	1.000000
rad45	5.54093e-13	1.000000	7.75333e-13	1.000000
rad21	2.44329e-13	1.000000	3.41885e-13	1.000000
rad22	1.61049e-13	1.000000	2.25352e-13	1.000000
rad33	1.20475e-13	1.000000	1.68579e-13	1.000000
rad36	1.04968e-13	1.000000	1.46879e-13	1.000000
rad15	8.23146e-14	1.000000	1.15181e-13	1.000000
rad20	5.20673e-14	1.000000	7.28565e-14	1.000000
rad12	3.09374e-14	1.000000	4.32901e-14	1.000000
rad25	2.89955e-14	1.000000	4.05730e-14	1.000000
rad26	2.74882e-14	1.000000	3.84639e-14	1.000000
rad24	1.82403e-14	1.000000	2.55233e-14	1.000000
rad10	1.23789e-14	1.000000	1.73216e-14	1.000000
rad8	1.19193e-14	1.000000	1.66784e-14	1.000000
rad47	1.15641e-14	1.000000	1.61813e-14	1.000000
rad18	9.41078e-15	1.000000	1.31684e-14	1.000000
rad3	2.95200e-15	1.000000	4.13068e-15	1.000000
rad14	2.29688e-15	1.000000	3.21398e-15	1.000000
rad2	1.83801e-15	1.000000	2.57191e-15	1.000000
rad4	1.76629e-15	1.000000	2.47152e-15	1.000000
rad5	5.60912e-16	1.000000	7.84873e-16	1.000000
rad1	4.17396e-16	1.000000	5.84054e-16	1.000000
rad27	9.84932e-17	1.000000	1.37820e-16	1.000000

0.100000000 Pa, 3500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.05713e-10 (1.00)	7.59650e-11 (1.00)
Formation of rad11	1.77412e-11 (0.168)	6.37264e-12 (0.0839)
Formation of rad6	2.86822e-11 (0.271)	1.03027e-11 (0.136)
H-abstraction	5.92897e-11 (0.561)	5.92897e-11 (0.780)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.780487	0.780487
Phenyl+Allene	0.281404	0.842259	0.000000	0.780487
PhCH2CCH+H	0.0826656	0.924925	0.115037	0.895524
PhCHCCH2+H	0.0360585	0.960983	0.0501791	0.945703
C2H2+PhCH2	0.0122593	0.973242	0.0170600	0.962764
PhCCH+CH3	0.00927084	0.982513	0.0129013	0.975665
PAH7+H	0.00395025	0.986463	0.00549717	0.981162
PhcycC3H3_A+H	0.00334801	0.989811	0.00465910	0.985821

Ph+MeAc	0.00276398	0.992575	0.00384635	0.989667
Indene+H	0.00257590	0.995151	0.00358462	0.993252
rad19syn	0.00187235	0.997024	0.00260557	0.995858
rad54	0.000820548	0.997844	0.00114187	0.996999
rad39	0.000383055	0.998227	0.000533059	0.997533
PAH1+H	0.000234590	0.998462	0.000326455	0.997859
rad19anti	0.000198628	0.998661	0.000276411	0.998135
PAH9+H	0.000165224	0.998826	0.000229927	0.998365
rad56	0.000126873	0.998953	0.000176556	0.998542
rad38	0.000111229	0.999064	0.000154787	0.998697
rad50	9.85613e-05	0.999162	0.000137158	0.998834
PhCCCH3+H	9.42424e-05	0.999257	0.000131148	0.998965
rad55	9.15803e-05	0.999348	0.000127443	0.999092
rad53	8.16793e-05	0.999430	0.000113665	0.999206
rad70	7.02694e-05	0.999500	9.77871e-05	0.999304
PAH3+H	6.99220e-05	0.999570	9.73035e-05	0.999401
rad51	5.98507e-05	0.999630	8.32882e-05	0.999484
PAH10+CH3	5.76128e-05	0.999688	8.01742e-05	0.999565
rad67	4.43734e-05	0.999732	6.17501e-05	0.999626
rad46	4.41956e-05	0.999776	6.15029e-05	0.999688
PAH8+H	4.26935e-05	0.999819	5.94123e-05	0.999747
rad35	4.02805e-05	0.999859	5.60544e-05	0.999803
rad34	2.74951e-05	0.999887	3.82622e-05	0.999842
rad71	2.01281e-05	0.999907	2.80103e-05	0.999870
rad62	1.37116e-05	0.999920	1.90811e-05	0.999889
rad52	1.21501e-05	0.999933	1.69080e-05	0.999906
rad30	1.02915e-05	0.999943	1.43216e-05	0.999920
rad73	8.16310e-06	0.999951	1.13598e-05	0.999931
rad37	7.96636e-06	0.999959	1.10860e-05	0.999942
rad64	6.47621e-06	0.999966	9.01228e-06	0.999951
rad68syn	6.33612e-06	0.999972	8.81737e-06	0.999960
rad59	5.10458e-06	0.999977	7.10355e-06	0.999967
rad68anti	4.04059e-06	0.999981	5.62289e-06	0.999973
rad40syn	3.59895e-06	0.999985	5.00830e-06	0.999978
rad42	2.66321e-06	0.999987	3.70612e-06	0.999982
rad40anti	2.63316e-06	0.999990	3.66431e-06	0.999985
rad60syn	2.53258e-06	0.999992	3.52435e-06	0.999989
rad72	2.38441e-06	0.999995	3.31816e-06	0.999992
rad60anti	1.86455e-06	0.999997	2.59471e-06	0.999995
rad58	1.49815e-06	0.999998	2.08483e-06	0.999997
rad65	1.37925e-06	1.000000	1.91936e-06	0.999999
rad43	4.42452e-07	1.000000	6.15716e-07	0.999999
rad61	3.67258e-07	1.000000	5.11077e-07	1.000000
rad41	8.98821e-08	1.000000	1.25080e-07	1.000000
rad6	1.00957e-10	1.000000	1.40492e-10	1.000000
rad7	4.67681e-12	1.000000	6.50825e-12	1.000000
rad11	3.00061e-12	1.000000	4.17564e-12	1.000000
rad23	7.42819e-13	1.000000	1.03371e-12	1.000000
rad13	7.28402e-13	1.000000	1.01364e-12	1.000000
rad9	5.23650e-13	1.000000	7.28715e-13	1.000000
rad28	3.51748e-13	1.000000	4.89492e-13	1.000000
rad45	2.93120e-13	1.000000	4.07908e-13	1.000000
rad21	1.56215e-13	1.000000	2.17389e-13	1.000000
rad22	8.28110e-14	1.000000	1.15240e-13	1.000000
rad33	7.96113e-14	1.000000	1.10787e-13	1.000000
rad36	5.59278e-14	1.000000	7.78294e-14	1.000000
rad15	4.54050e-14	1.000000	6.31859e-14	1.000000
rad20	3.56647e-14	1.000000	4.96310e-14	1.000000
rad12	2.06000e-14	1.000000	2.86671e-14	1.000000
rad25	1.93604e-14	1.000000	2.69419e-14	1.000000
rad26	1.41895e-14	1.000000	1.97462e-14	1.000000
rad47	1.23125e-14	1.000000	1.71341e-14	1.000000
rad24	1.20836e-14	1.000000	1.68156e-14	1.000000
rad8	1.05361e-14	1.000000	1.46621e-14	1.000000
rad10	6.85163e-15	1.000000	9.53472e-15	1.000000
rad18	5.60429e-15	1.000000	7.79892e-15	1.000000
rad14	1.81954e-15	1.000000	2.53206e-15	1.000000
rad3	1.80387e-15	1.000000	2.51026e-15	1.000000
rad4	1.09702e-15	1.000000	1.52662e-15	1.000000
rad2	1.00322e-15	1.000000	1.39608e-15	1.000000
rad5	4.34652e-16	1.000000	6.04863e-16	1.000000
rad1	2.20513e-16	1.000000	3.06866e-16	1.000000
rad27	7.31239e-17	1.000000	1.01759e-16	1.000000

0.100000000 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.33217e-10 (1.00)	9.62711e-11 (1.00)
Formation of rad11	2.17064e-11 (0.163)	7.68279e-12 (0.0798)

Formation of rad6 | 3.54800e-11 (0.266) 1.25578e-11 (0.130)
H-abstraction | 7.60305e-11 (0.571) 7.60305e-11 (0.790)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789754	0.789754
Phenyl+Allene	0.277336	0.848063	0.00000	0.789754
PhCH2CCH+H	0.0801946	0.928257	0.110971	0.900725
PhCHCCH2+H	0.0343186	0.962576	0.0474891	0.948214
C2H2+PhCH2	0.0118838	0.974460	0.0164445	0.964658
PhCCH+CH3	0.00852836	0.982988	0.0118013	0.976459
PhcycC3H3_A+H	0.00372851	0.986717	0.00515939	0.981619
PAH7+H	0.00365085	0.990368	0.00505194	0.986671
Ph+MeAc	0.00270113	0.993069	0.00373773	0.990408
Indene+H	0.00199900	0.995068	0.00276616	0.993175
rad19syn	0.00195356	0.997021	0.00270328	0.995878
rad54	0.000841040	0.997862	0.00116381	0.997042
rad39	0.000340475	0.998203	0.000471138	0.997513
PAH1+H	0.000258935	0.998462	0.000358305	0.997871
rad19anti	0.000171610	0.998633	0.000237469	0.998109
rad56	0.000150421	0.998784	0.000208148	0.998317
PAH9+H	0.000142296	0.998926	0.000196904	0.998514
rad50	9.78214e-05	0.999024	0.000135362	0.998649
rad38	9.76287e-05	0.999121	0.000135095	0.998784
rad55	9.60227e-05	0.999217	0.000132873	0.998917
rad53	9.35446e-05	0.999311	0.000129444	0.999046
PhCCCH3+H	8.63448e-05	0.999397	0.000119481	0.999166
PAH3+H	7.46029e-05	0.999472	0.000103233	0.999269
rad70	7.27716e-05	0.999545	0.000100699	0.999370
rad51	6.27266e-05	0.999607	8.67994e-05	0.999457
PAH10+CH3	5.64592e-05	0.999664	7.81267e-05	0.999535
PAH8+H	5.49581e-05	0.999719	7.60493e-05	0.999611
rad67	4.41361e-05	0.999763	6.10741e-05	0.999672
rad46	4.00102e-05	0.999803	5.53649e-05	0.999727
rad35	3.73501e-05	0.999840	5.16839e-05	0.999779
rad34	2.95155e-05	0.999870	4.08426e-05	0.999820
rad71	2.56704e-05	0.999896	3.55219e-05	0.999855
rad62	1.78765e-05	0.999913	2.47369e-05	0.999880
rad52	1.22817e-05	0.999926	1.69950e-05	0.999897
rad73	9.90830e-06	0.999936	1.37108e-05	0.999911
rad30	9.58077e-06	0.999945	1.32576e-05	0.999924
rad68syn	7.51159e-06	0.999953	1.03943e-05	0.999934
rad64	7.08717e-06	0.999960	9.80700e-06	0.999944
rad37	6.84827e-06	0.999967	9.47639e-06	0.999954
rad59	5.31873e-06	0.999972	7.35989e-06	0.999961
rad68anti	4.78626e-06	0.999977	6.62308e-06	0.999968
rad40syn	4.46912e-06	0.999981	6.18422e-06	0.999974
rad42	3.72271e-06	0.999985	5.15138e-06	0.999979
rad72	3.33614e-06	0.999988	4.61643e-06	0.999984
rad40anti	3.31727e-06	0.999992	4.59032e-06	0.999988
rad60syn	2.53369e-06	0.999994	3.50604e-06	0.999992
rad60anti	1.87710e-06	0.999996	2.59748e-06	0.999994
rad58	1.70809e-06	0.999998	2.36361e-06	0.999997
rad65	1.42131e-06	0.999999	1.96676e-06	0.999999
rad43	5.13732e-07	1.000000	7.10883e-07	0.999999
rad61	4.03889e-07	1.00000	5.58888e-07	1.000000
rad41	1.13553e-07	1.00000	1.57130e-07	1.00000
rad6	5.40927e-11	1.00000	7.48513e-11	1.00000
rad7	2.86623e-12	1.00000	3.96618e-12	1.00000
rad11	1.83955e-12	1.00000	2.54551e-12	1.00000
rad13	4.72041e-13	1.00000	6.53196e-13	1.00000
rad23	3.66100e-13	1.00000	5.06596e-13	1.00000
rad9	2.88785e-13	1.00000	3.99610e-13	1.00000
rad28	1.85460e-13	1.00000	2.56635e-13	1.00000
rad45	1.62510e-13	1.00000	2.24875e-13	1.00000
rad21	1.04840e-13	1.00000	1.45075e-13	1.00000
rad33	5.44417e-14	1.00000	7.53347e-14	1.00000
rad22	4.58674e-14	1.00000	6.34697e-14	1.00000
rad36	3.11676e-14	1.00000	4.31288e-14	1.00000
rad15	2.63918e-14	1.00000	3.65201e-14	1.00000
rad20	2.59482e-14	1.00000	3.59062e-14	1.00000
rad12	1.42145e-14	1.00000	1.96695e-14	1.00000
rad25	1.34709e-14	1.00000	1.86406e-14	1.00000
rad47	1.26179e-14	1.00000	1.74602e-14	1.00000
rad8	9.29500e-15	1.00000	1.28621e-14	1.00000
rad24	8.25899e-15	1.00000	1.14285e-14	1.00000
rad26	7.76434e-15	1.00000	1.07440e-14	1.00000
rad10	3.99849e-15	1.00000	5.53298e-15	1.00000
rad18	3.53574e-15	1.00000	4.89263e-15	1.00000
rad14	1.56424e-15	1.00000	2.16454e-15	1.00000

rad3	1.16576e-15	1.00000	1.61314e-15	1.00000
rad4	7.27471e-16	1.00000	1.00665e-15	1.00000
rad2	5.90229e-16	1.00000	8.16742e-16	1.00000
rad5	3.46674e-16	1.00000	4.79716e-16	1.00000
rad1	1.27501e-16	1.00000	1.76432e-16	1.00000
rad27	5.73873e-17	1.00000	7.94105e-17	1.00000

0.100000000 Pa, 4000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.65008e-10 (1.00)	1.19912e-10 (1.00)
Formation of rad11	2.61707e-11 (0.159)	9.15556e-12 (0.0764)
Formation of rad6	4.31906e-11 (0.262)	1.51098e-11 (0.126)
H-abstraction	9.56470e-11 (0.580)	9.56470e-11 (0.798)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.579650	0.579650	0.797641	0.797641
Phenyl+Allene	0.273295	0.852945	0.00000	0.797641
PhCH2CCH+H	0.0779435	0.930888	0.107256	0.904897
PhCHCCH2+H	0.0328766	0.963765	0.0452408	0.950138
C2H2+PhCH2	0.0116508	0.975415	0.0160323	0.966170
PhCCH+CH3	0.00792125	0.983337	0.0109003	0.977070
PhcycC3H3_A+H	0.00405636	0.987393	0.00558187	0.982652
PAH7+H	0.00338058	0.990774	0.00465193	0.987304
Ph+MeAc	0.00265534	0.993429	0.00365394	0.990958
rad19syn	0.00200699	0.995436	0.00276178	0.993720
Indene+H	0.00158840	0.997024	0.00218576	0.995906
rad54	0.000847468	0.997872	0.00116618	0.997072
rad39	0.000304994	0.998177	0.000419695	0.997491
PAH1+H	0.000284127	0.998461	0.000390980	0.997882
rad56	0.000172242	0.998633	0.000237017	0.998119
rad19anti	0.000149971	0.998783	0.000206372	0.998326
PAH9+H	0.000121736	0.998905	0.000167518	0.998493
rad53	0.000103935	0.999009	0.000143023	0.998636
rad55	9.87033e-05	0.999108	0.000135823	0.998772
rad50	9.49261e-05	0.999203	0.000130625	0.998903
rad38	8.48536e-05	0.999287	0.000116765	0.999020
PhCCCH3+H	8.02193e-05	0.999368	0.000110388	0.999130
PAH3+H	7.84218e-05	0.999446	0.000107914	0.999238
rad70	7.43978e-05	0.999520	0.000102377	0.999340
PAH8+H	6.80299e-05	0.999588	9.36140e-05	0.999434
rad51	6.37407e-05	0.999652	8.77122e-05	0.999522
PAH10+CH3	5.48776e-05	0.999707	7.55158e-05	0.999597
rad67	4.35168e-05	0.999751	5.98821e-05	0.999657
rad46	3.57792e-05	0.999786	4.92350e-05	0.999706
rad35	3.46400e-05	0.999821	4.76673e-05	0.999754
rad34	3.11445e-05	0.999852	4.28572e-05	0.999797
rad71	3.10563e-05	0.999883	4.27358e-05	0.999839
rad62	2.32398e-05	0.999906	3.19798e-05	0.999871
rad52	1.20851e-05	0.999919	1.66300e-05	0.999888
rad73	1.14710e-05	0.999930	1.57849e-05	0.999904
rad30	8.93299e-06	0.999939	1.22925e-05	0.999916
rad68syn	8.64434e-06	0.999948	1.18952e-05	0.999928
rad64	7.61305e-06	0.999955	1.04761e-05	0.999939
rad37	5.91727e-06	0.999961	8.14263e-06	0.999947
rad68anti	5.50424e-06	0.999967	7.57424e-06	0.999954
rad59	5.47385e-06	0.999972	7.53243e-06	0.999962
rad40syn	5.36170e-06	0.999977	7.37810e-06	0.999969
rad42	5.12142e-06	0.999983	7.04750e-06	0.999976
rad72	4.37871e-06	0.999987	6.02543e-06	0.999982
rad40anti	4.03125e-06	0.999991	5.54731e-06	0.999988
rad60syn	2.51669e-06	0.999993	3.46315e-06	0.999991
rad58	1.90267e-06	0.999995	2.61822e-06	0.999994
rad60anti	1.87487e-06	0.999997	2.57996e-06	0.999996
rad65	1.42564e-06	0.999999	1.96179e-06	0.999998
rad43	6.01849e-07	0.999999	8.28191e-07	0.999999
rad61	4.34037e-07	1.000000	5.97267e-07	1.000000
rad41	1.43043e-07	1.000000	1.96838e-07	1.000000
rad6	3.10470e-11	1.000000	4.27229e-11	1.000000
rad7	1.83856e-12	1.000000	2.53000e-12	1.000000
rad11	1.19274e-12	1.000000	1.64131e-12	1.000000
rad13	3.20025e-13	1.000000	4.40378e-13	1.000000
rad23	1.90580e-13	1.000000	2.62253e-13	1.000000
rad9	1.68450e-13	1.000000	2.31800e-13	1.000000
rad28	1.04457e-13	1.000000	1.43740e-13	1.000000
rad45	9.37629e-14	1.000000	1.29025e-13	1.000000
rad21	7.32852e-14	1.000000	1.00846e-13	1.000000
rad33	3.83236e-14	1.000000	5.27362e-14	1.000000

rad22	2.70626e-14	1.000000	3.72402e-14	1.00000
rad20	1.97648e-14	1.000000	2.71979e-14	1.00000
rad36	1.80416e-14	1.000000	2.48266e-14	1.00000
rad15	1.60838e-14	1.000000	2.21324e-14	1.00000
rad47	1.25502e-14	1.000000	1.72700e-14	1.00000
rad12	1.01281e-14	1.000000	1.39370e-14	1.00000
rad25	9.69875e-15	1.000000	1.33462e-14	1.00000
rad8	8.17493e-15	1.000000	1.12493e-14	1.00000
rad24	5.80458e-15	1.000000	7.98754e-15	1.00000
rad26	4.47665e-15	1.000000	6.16022e-15	1.00000
rad10	2.44338e-15	1.000000	3.36228e-15	1.00000
rad18	2.33651e-15	1.000000	3.21520e-15	1.00000
rad14	1.43429e-15	1.000000	1.97369e-15	1.00000
rad3	7.89187e-16	1.000000	1.08598e-15	1.00000
rad4	5.08708e-16	1.000000	7.00021e-16	1.00000
rad2	3.68668e-16	1.000000	5.07314e-16	1.00000
rad5	2.83674e-16	1.000000	3.90357e-16	1.00000
rad1	7.93832e-17	1.000000	1.09237e-16	1.00000
rad27	4.74874e-17	1.000000	6.53460e-17	1.00000

0.100000000E-01 Pa, 20.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.56740e-51	(1.00)	1.56740e-51	(1.00)
Formation of rad11	1.56740e-51	(1.000)	1.56740e-51	(1.000)
Formation of rad6	3.73945e-60	(2.39e-09)	3.73945e-60	(2.39e-09)
H-abstraction	1.53631e-76	(9.80e-26)	1.53631e-76	(9.80e-26)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.921709	0.921709	0.921709	0.921709
Indene+H	0.0768278	0.998537	0.0768278	0.998537
C2H2+PhCH2	0.000597138	0.999134	0.000597138	0.999134
rad2	0.000560588	0.999695	0.000560588	0.999695
rad7	0.000101987	0.999797	0.000101987	0.999797
rad28	5.14002e-05	0.999848	5.14002e-05	0.999848
rad1	3.54305e-05	0.999883	3.54305e-05	0.999883
rad10	3.37467e-05	0.999917	3.37467e-05	0.999917
rad11	2.78177e-05	0.999945	2.78177e-05	0.999945
PhCCH+CH3	1.83183e-05	0.999963	1.83183e-05	0.999963
rad26	1.21968e-05	0.999975	1.21968e-05	0.999975
PhCHCCH2+H	1.18096e-05	0.999987	1.18096e-05	0.999987
PhCCCH3+H	5.05425e-06	0.999992	5.05425e-06	0.999992
rad3	4.65162e-06	0.999997	4.65162e-06	0.999997
rad4	2.35164e-06	0.999999	2.35164e-06	0.999999
rad13	3.82169e-07	1.000000	3.82169e-07	1.000000
rad9	1.80279e-07	1.000000	1.80279e-07	1.000000
rad23	1.46296e-07	1.000000	1.46296e-07	1.000000
Ph+MeAc	4.48322e-08	1.00000	4.48322e-08	1.00000
rad8	3.77004e-08	1.00000	3.77004e-08	1.00000
rad30	3.13047e-08	1.00000	3.13047e-08	1.00000
PAH9+H	6.22631e-09	1.00000	6.22631e-09	1.00000
rad15	5.55363e-09	1.00000	5.55363e-09	1.00000
rad35	3.29673e-09	1.00000	3.29673e-09	1.00000
rad45	2.30808e-09	1.00000	2.30808e-09	1.00000
rad38	1.59342e-09	1.00000	1.59342e-09	1.00000
Phenyl+Allene	1.29963e-09	1.00000	0.00000	1.00000
PAH7+H	1.16977e-09	1.00000	1.16977e-09	1.00000
rad33	6.99672e-10	1.00000	6.99672e-10	1.00000
rad14	3.85494e-10	1.00000	3.85494e-10	1.00000
rad27	3.17784e-10	1.00000	3.17784e-10	1.00000
rad25	2.57008e-10	1.00000	2.57008e-10	1.00000
rad12	1.62562e-10	1.00000	1.62562e-10	1.00000
rad36	1.43776e-10	1.00000	1.43776e-10	1.00000
rad39	1.04347e-10	1.00000	1.04347e-10	1.00000
rad22	9.52338e-11	1.00000	9.52338e-11	1.00000
rad46	1.00731e-11	1.00000	1.00731e-11	1.00000
rad60syn	2.31932e-13	1.00000	2.31932e-13	1.00000
rad31	1.04149e-14	1.00000	1.04149e-14	1.00000
rad20	2.80830e-15	1.00000	2.80830e-15	1.00000
rad21	1.97549e-15	1.00000	1.97549e-15	1.00000
PhCH2CCH+H	1.74632e-15	1.00000	1.74632e-15	1.00000
rad60anti	7.45831e-16	1.00000	7.45831e-16	1.00000
rad37	3.18595e-16	1.00000	3.18595e-16	1.00000
rad18	2.50538e-16	1.00000	2.50538e-16	1.00000
rad24	2.19250e-17	1.00000	2.19250e-17	1.00000
rad5	5.94328e-19	1.00000	5.94328e-19	1.00000
PAH3+H	7.03188e-23	1.00000	7.03188e-23	1.00000
rad59	3.46991e-23	1.00000	3.46991e-23	1.00000

rad50	5.90526e-24	1.00000	5.90526e-24	1.00000
Benzene+2-propynyl	9.80165e-26	1.00000	9.80165e-26	1.00000
rad19syn	1.59654e-28	1.00000	1.59654e-28	1.00000
rad54	2.69126e-32	1.00000	2.69126e-32	1.00000
PAH10+CH3	1.82336e-32	1.00000	1.82336e-32	1.00000
rad52	1.16545e-32	1.00000	1.16545e-32	1.00000
rad43	4.19031e-33	1.00000	4.19031e-33	1.00000
rad62	5.22188e-35	1.00000	5.22188e-35	1.00000
rad51	5.52656e-38	1.00000	5.52656e-38	1.00000
rad70	1.19306e-39	1.00000	1.19306e-39	1.00000
PhcycC3H3_A+H	6.49683e-40	1.00000	6.49683e-40	1.00000
rad55	3.36415e-40	1.00000	3.36415e-40	1.00000
rad65	3.22121e-42	1.00000	3.22121e-42	1.00000
rad58	2.65903e-43	1.00000	2.65903e-43	1.00000
PAH1+H	2.24442e-44	1.00000	2.24442e-44	1.00000
rad34	2.08659e-46	1.00000	2.08659e-46	1.00000
rad42	3.55226e-50	1.00000	3.55226e-50	1.00000
rad41	5.05258e-51	1.00000	5.05258e-51	1.00000
rad47	1.96879e-51	1.00000	1.96879e-51	1.00000

0.100000000E-01 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.03204e-39 (1.00)	5.03204e-39 (1.00)
Formation of rad11	5.03203e-39 (1.000)	5.03203e-39 (1.000)
Formation of rad6	9.92181e-45 (1.97e-06)	9.92181e-45 (1.97e-06)
H-abstraction	3.33191e-55 (6.62e-17)	3.33191e-55 (6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.901618	0.901618	0.901618	0.901618
Indene+H	0.0965771	0.998195	0.0965771	0.998195
C2H2+PhCH2	0.000725252	0.998920	0.000725252	0.998920
rad2	0.000662309	0.999583	0.000662309	0.999583
rad28	9.70539e-05	0.999680	9.70539e-05	0.999680
rad7	9.18831e-05	0.999772	9.18831e-05	0.999772
PhCCH+CH3	4.45579e-05	0.999816	4.45579e-05	0.999816
rad1	4.18839e-05	0.999858	4.18839e-05	0.999858
rad10	3.84584e-05	0.999896	3.84584e-05	0.999896
rad26	2.84424e-05	0.999925	2.84424e-05	0.999925
PhCHCCH2+H	2.80702e-05	0.999953	2.80702e-05	0.999953
rad11	2.44151e-05	0.999977	2.44151e-05	0.999977
PhCCCH3+H	1.43245e-05	0.999992	1.43245e-05	0.999992
rad3	4.91138e-06	0.999997	4.91138e-06	0.999997
rad4	2.48332e-06	0.999999	2.48332e-06	0.999999
rad13	3.68106e-07	1.000000	3.68106e-07	1.000000
rad9	2.18615e-07	1.000000	2.18615e-07	1.000000
Ph+MeAc	1.33219e-07	1.000000	1.33219e-07	1.000000
rad8	1.08079e-07	1.000000	1.08079e-07	1.000000
rad30	3.77605e-08	1.00000	3.77605e-08	1.00000
rad23	3.38833e-08	1.00000	3.38833e-08	1.00000
PAH9+H	7.55617e-09	1.00000	7.55617e-09	1.00000
rad15	6.67231e-09	1.00000	6.67231e-09	1.00000
PAH7+H	4.66949e-09	1.00000	4.66949e-09	1.00000
rad35	4.00668e-09	1.00000	4.00668e-09	1.00000
Phenyl+Allene	2.13356e-09	1.00000	0.00000	1.00000
rad38	1.93039e-09	1.00000	1.93039e-09	1.00000
rad12	8.28193e-10	1.00000	8.28193e-10	1.00000
rad33	6.83991e-10	1.00000	6.83991e-10	1.00000
rad45	4.77052e-10	1.00000	4.77052e-10	1.00000
rad39	4.21138e-10	1.00000	4.21138e-10	1.00000
rad14	4.14090e-10	1.00000	4.14090e-10	1.00000
rad27	3.70502e-10	1.00000	3.70502e-10	1.00000
rad25	2.46569e-10	1.00000	2.46569e-10	1.00000
rad36	2.97075e-11	1.00000	2.97075e-11	1.00000
rad22	1.95702e-11	1.00000	1.95702e-11	1.00000
rad46	1.21507e-11	1.00000	1.21507e-11	1.00000
rad60syn	2.60763e-13	1.00000	2.60763e-13	1.00000
rad31	1.21600e-14	1.00000	1.21600e-14	1.00000
PhCH2CCH+H	3.78732e-15	1.00000	3.78732e-15	1.00000
rad20	2.18345e-15	1.00000	2.18345e-15	1.00000
rad60anti	1.74088e-15	1.00000	1.74088e-15	1.00000
rad21	1.56370e-15	1.00000	1.56370e-15	1.00000
rad37	8.19053e-16	1.00000	8.19053e-16	1.00000
rad18	9.21452e-17	1.00000	9.21452e-17	1.00000
Benzene+2-propynyl	6.62139e-17	1.00000	6.62139e-17	1.00000
rad24	4.92113e-18	1.00000	4.92113e-18	1.00000
rad5	1.26484e-18	1.00000	1.26484e-18	1.00000
PAH3+H	1.38319e-22	1.00000	1.38319e-22	1.00000

rad59	6.86639e-23	1.00000	6.86639e-23	1.00000
rad50	1.20025e-23	1.00000	1.20025e-23	1.00000
rad19syn	1.71395e-28	1.00000	1.71395e-28	1.00000
rad54	1.92321e-32	1.00000	1.92321e-32	1.00000
rad52	1.33353e-32	1.00000	1.33353e-32	1.00000
PAH10+CH3	1.29375e-32	1.00000	1.29375e-32	1.00000
rad43	2.97168e-33	1.00000	2.97168e-33	1.00000
rad62	2.80269e-35	1.00000	2.80269e-35	1.00000
rad51	3.00373e-38	1.00000	3.00373e-38	1.00000
rad70	3.09435e-40	1.00000	3.09435e-40	1.00000
PhcycC3H3_A+H	1.56339e-40	1.00000	1.56339e-40	1.00000
rad55	8.22674e-41	1.00000	8.22674e-41	1.00000
rad65	1.05266e-42	1.00000	1.05266e-42	1.00000
rad58	6.05153e-44	1.00000	6.05153e-44	1.00000
PAH1+H	2.85061e-45	1.00000	2.85061e-45	1.00000
rad34	2.32357e-47	1.00000	2.32357e-47	1.00000
rad42	2.85904e-51	1.00000	2.85904e-51	1.00000
rad41	3.87440e-52	1.00000	3.87440e-52	1.00000
rad47	1.58865e-52	1.00000	1.58865e-52	1.00000

0.100000000E-01 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.35697e-33 (1.00)	9.35697e-33 (1.00)
Formation of rad11	9.35644e-33 (1.000)	9.35644e-33 (1.000)
Formation of rad6	5.26139e-37 (5.62e-05)	5.26139e-37 (5.62e-05)
H-abstraction	1.44763e-44 (1.55e-12)	1.44763e-44 (1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.881983	0.881983	0.881983	0.881983
Indene+H	0.115960	0.997943	0.115960	0.997943
C2H2+PhCH2	0.000860049	0.998803	0.000860049	0.998803
rad2	0.000673400	0.999476	0.000673400	0.999476
rad28	0.000137201	0.999614	0.000137201	0.999614
rad7	8.61670e-05	0.999700	8.61670e-05	0.999700
PhCCH+CH3	7.43943e-05	0.999774	7.43943e-05	0.999774
PhCHCCH2+H	4.70036e-05	0.999821	4.70036e-05	0.999821
rad1	4.26376e-05	0.999864	4.26376e-05	0.999864
rad26	4.14401e-05	0.999905	4.14401e-05	0.999905
rad10	3.83746e-05	0.999944	3.83746e-05	0.999944
PhCCCH3+H	2.52467e-05	0.999969	2.52467e-05	0.999969
rad11	2.26039e-05	0.999992	2.26039e-05	0.999992
rad3	4.79343e-06	0.999996	4.79343e-06	0.999996
rad4	2.42444e-06	0.999999	2.42444e-06	0.999999
rad13	3.58465e-07	0.999999	3.58465e-07	0.999999
rad9	2.65705e-07	0.999999	2.65705e-07	0.999999
Ph+MeAc	2.55229e-07	1.000000	2.55229e-07	1.000000
rad8	1.93339e-07	1.000000	1.93339e-07	1.000000
rad30	4.47493e-08	1.000000	4.47493e-08	1.000000
rad23	1.36978e-08	1.000000	1.36978e-08	1.000000
PAH7+H	1.07588e-08	1.000000	1.07588e-08	1.000000
PAH9+H	8.98333e-09	1.000000	8.98333e-09	1.000000
rad15	7.91001e-09	1.000000	7.91001e-09	1.000000
rad35	4.76123e-09	1.000000	4.76123e-09	1.000000
Phenyl+Allene	3.82782e-09	1.000000	0.000000	1.000000
rad38	2.29568e-09	1.000000	2.29568e-09	1.000000
rad12	2.03857e-09	1.000000	2.03857e-09	1.000000
rad39	9.97678e-10	1.000000	9.97679e-10	1.000000
rad33	6.69735e-10	1.000000	6.69735e-10	1.000000
rad14	4.11694e-10	1.000000	4.11694e-10	1.000000
rad27	3.75456e-10	1.000000	3.75456e-10	1.000000
rad25	2.39868e-10	1.000000	2.39868e-10	1.000000
rad45	1.81667e-10	1.000000	1.81667e-10	1.000000
rad46	1.45511e-11	1.000000	1.45511e-11	1.000000
rad36	1.13061e-11	1.000000	1.13061e-11	1.000000
rad22	7.45633e-12	1.000000	7.45633e-12	1.000000
Benzene+2-propynyl	1.54712e-12	1.000000	1.54712e-12	1.000000
rad60syn	3.03369e-13	1.000000	3.03369e-13	1.000000
rad31	1.23836e-14	1.000000	1.23836e-14	1.000000
PhCH2CCH+H	7.47825e-15	1.000000	7.47825e-15	1.000000
rad60anti	4.17039e-15	1.000000	4.17039e-15	1.000000
rad20	1.99992e-15	1.000000	1.99992e-15	1.000000
rad37	1.68402e-15	1.000000	1.68402e-15	1.000000
rad21	1.44363e-15	1.000000	1.44363e-15	1.000000
rad18	5.74545e-17	1.000000	5.74545e-17	1.000000
rad5	2.45161e-18	1.000000	2.45161e-18	1.000000
rad24	1.97065e-18	1.000000	1.97065e-18	1.000000
PAH3+H	2.55297e-22	1.000000	2.55297e-22	1.000000

rad59	1.27262e-22	1.000000	1.27262e-22	1.000000
rad50	2.26680e-23	1.000000	2.26680e-23	1.000000
rad19syn	2.07446e-28	1.000000	2.07446e-28	1.000000
rad54	1.80373e-32	1.000000	1.80373e-32	1.000000
rad52	1.68287e-32	1.000000	1.68287e-32	1.000000
PAH10+CH3	1.21022e-32	1.000000	1.21022e-32	1.000000
rad43	2.77866e-33	1.000000	2.77866e-33	1.000000
rad62	2.22950e-35	1.000000	2.22950e-35	1.000000
rad51	2.40451e-38	1.000000	2.40451e-38	1.000000
rad70	1.69009e-40	1.000000	1.69009e-40	1.000000
PhcycC3H3_A+H	8.25048e-41	1.000000	8.25048e-41	1.000000
rad55	4.36740e-41	1.000000	4.36740e-41	1.000000
rad65	6.43317e-43	1.000000	6.43317e-43	1.000000
rad58	3.10988e-44	1.000000	3.10988e-44	1.000000
PAH1+H	1.14021e-45	1.000000	1.14021e-45	1.000000
rad34	8.83382e-48	1.000000	8.83382e-48	1.000000
rad42	9.66374e-52	1.000000	9.66374e-52	1.000000
rad41	1.28990e-52	1.000000	1.28990e-52	1.000000
rad47	4.75282e-53	1.000000	4.75282e-53	1.000000

0.100000000E-01 Pa, 50.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	5.52690e-29	(1.00)	5.52690e-29	(1.00)
Formation of rad11	5.52459e-29	(1.000)	5.52459e-29	(1.000)
Formation of rad6	2.30840e-32	(0.000418)	2.30840e-32	(0.000418)
H-abstraction	3.35357e-38	(6.07e-10)	3.35357e-38	(6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.862149	0.862149	0.862149	0.862149
Indene+H	0.135551	0.997700	0.135551	0.997700
C2H2+PhCH2	0.00100660	0.998707	0.00100660	0.998707
rad2	0.000661411	0.999368	0.000661411	0.999368
rad28	0.000173788	0.999542	0.000173788	0.999542
PhCCH+CH3	0.000108744	0.999651	0.000108744	0.999651
rad7	8.19507e-05	0.999732	8.19507e-05	0.999732
PhCHCCH2+H	6.87332e-05	0.999801	6.87332e-05	0.999801
rad26	5.14356e-05	0.999853	5.14356e-05	0.999853
rad1	4.19521e-05	0.999895	4.19521e-05	0.999895
PhCCCH3+H	3.79290e-05	0.999933	3.79290e-05	0.999933
rad10	3.72329e-05	0.999970	3.72329e-05	0.999970
rad11	2.13256e-05	0.999991	2.13256e-05	0.999991
rad3	4.60743e-06	0.999996	4.60743e-06	0.999996
rad4	2.33140e-06	0.999998	2.33140e-06	0.999998
Ph+MeAc	4.26748e-07	0.999998	4.26748e-07	0.999998
rad13	3.49908e-07	0.999999	3.49908e-07	0.999999
rad9	3.24533e-07	0.999999	3.24533e-07	0.999999
rad8	2.95607e-07	0.999999	2.95607e-07	0.999999
rad30	5.25603e-08	0.999999	5.25603e-08	0.999999
PAH7+H	2.04257e-08	1.000000	2.04257e-08	1.000000
PAH9+H	1.05874e-08	1.000000	1.05874e-08	1.000000
rad15	9.32211e-09	1.000000	9.32211e-09	1.000000
rad23	7.06109e-09	1.000000	7.06109e-09	1.000000
Phenyl+Allene	6.89357e-09	1.000000	0.000000	1.000000
rad35	5.60044e-09	1.000000	5.60044e-09	1.000000
rad12	3.91851e-09	1.000000	3.91851e-09	1.000000
rad38	2.71029e-09	1.000000	2.71029e-09	1.000000
rad39	1.97151e-09	1.000000	1.97151e-09	1.000000
rad33	6.55819e-10	1.000000	6.55819e-10	1.000000
Benzene+2-propynyl	6.06773e-10	1.000000	6.06773e-10	1.000000
rad14	4.02123e-10	1.000000	4.02123e-10	1.000000
rad27	3.68615e-10	1.000000	3.68615e-10	1.000000
rad25	2.34076e-10	1.000000	2.34076e-10	1.000000
rad45	9.00239e-11	1.000000	9.00239e-11	1.000000
rad46	1.74594e-11	1.000000	1.74594e-11	1.000000
rad36	5.59828e-12	1.000000	5.59828e-12	1.000000
rad22	3.70029e-12	1.000000	3.70029e-12	1.000000
rad60syn	3.76174e-13	1.000000	3.76174e-13	1.000000
PhCH2CCH+H	1.63565e-14	1.000000	1.63565e-14	1.000000
rad31	1.22522e-14	1.000000	1.22522e-14	1.000000
rad60anti	1.11810e-14	1.000000	1.11810e-14	1.000000
rad37	3.74209e-15	1.000000	3.74209e-15	1.000000
rad20	1.92603e-15	1.000000	1.92603e-15	1.000000
rad21	1.39717e-15	1.000000	1.39717e-15	1.000000
rad18	4.32059e-17	1.000000	4.32059e-17	1.000000
rad5	5.30558e-18	1.000000	5.30558e-18	1.000000
rad24	1.01302e-18	1.000000	1.01302e-18	1.000000
PAH3+H	5.34089e-22	1.000000	5.34089e-22	1.000000

rad59	2.66998e-22	1.000000	2.66998e-22	1.000000
rad50	4.81807e-23	1.000000	4.81807e-23	1.000000
rad19syn	3.22364e-28	1.000000	3.22364e-28	1.000000
rad52	2.69019e-32	1.000000	2.69019e-32	1.000000
rad54	2.37295e-32	1.000000	2.37295e-32	1.000000
PAH10+CH3	1.59195e-32	1.000000	1.59195e-32	1.000000
rad43	3.65412e-33	1.000000	3.65412e-33	1.000000
rad62	2.65374e-35	1.000000	2.65374e-35	1.000000
rad51	2.87063e-38	1.000000	2.87063e-38	1.000000
rad70	1.62928e-40	1.000000	1.62928e-40	1.000000
PhcycC3H3_A+H	7.81585e-41	1.000000	7.81585e-41	1.000000
rad55	4.14835e-41	1.000000	4.14835e-41	1.000000
rad65	6.58268e-43	1.000000	6.58268e-43	1.000000
rad58	2.90608e-44	1.000000	2.90608e-44	1.000000
PAH1+H	9.46921e-46	1.000000	9.46921e-46	1.000000
rad34	7.18455e-48	1.000000	7.18455e-48	1.000000
rad42	7.52615e-52	1.000000	7.52615e-52	1.000000
rad41	1.00303e-52	1.000000	1.00303e-52	1.000000
rad47	3.15388e-53	1.000000	3.15388e-53	1.000000

0.100000000E-01 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.83429e-26 (1.00)	1.83429e-26 (1.00)
Formation of rad11	1.83139e-26 (0.998)	1.83139e-26 (0.998)
Formation of rad6	2.90471e-29 (0.00158)	2.90471e-29 (0.00158)
H-abstraction	5.71259e-34 (3.11e-08)	5.71259e-34 (3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.841803	0.841803	0.841803	0.841803
Indene+H	0.155641	0.997444	0.155641	0.997444
C2H2+PhCH2	0.00116778	0.998612	0.00116778	0.998612
rad2	0.000642199	0.999254	0.000642199	0.999254
rad28	0.000207417	0.999461	0.000207417	0.999461
PhCCH+CH3	0.000148888	0.999610	0.000148888	0.999610
PhCHCCH2+H	9.38525e-05	0.999704	9.38525e-05	0.999704
rad7	7.84442e-05	0.999783	7.84442e-05	0.999783
rad26	5.89712e-05	0.999842	5.89712e-05	0.999842
PhCCCH3+H	5.27680e-05	0.999894	5.27680e-05	0.999894
rad1	4.08216e-05	0.999935	4.08216e-05	0.999935
rad10	3.58333e-05	0.999971	3.58333e-05	0.999971
rad11	2.02987e-05	0.999991	2.02987e-05	0.999991
rad3	4.41365e-06	0.999996	4.41365e-06	0.999996
rad4	2.23457e-06	0.999998	2.23457e-06	0.999998
Ph+MeAc	6.71024e-07	0.999999	6.71024e-07	0.999999
rad8	4.19390e-07	0.999999	4.19390e-07	0.999999
rad9	3.97884e-07	0.999999	3.97884e-07	0.999999
rad13	3.41646e-07	1.000000	3.41646e-07	1.000000
rad30	6.13716e-08	1.000000	6.13716e-08	1.000000
PAH7+H	3.52381e-08	1.000000	3.52381e-08	1.000000
Benzene+2-propynyl	3.11432e-08	1.000000	3.11432e-08	1.000000
PAH9+H	1.24117e-08	1.000000	1.24117e-08	1.000000
Phenyl+Allene	1.20939e-08	1.000000	0.000000	1.000000
rad15	1.09452e-08	1.000000	1.09452e-08	1.000000
rad12	6.67544e-09	1.000000	6.67544e-09	1.000000
rad35	6.54539e-09	1.000000	6.54539e-09	1.000000
rad23	4.18162e-09	1.000000	4.18162e-09	1.000000
rad39	3.57103e-09	1.000000	3.57103e-09	1.000000
rad38	3.18600e-09	1.000000	3.18600e-09	1.000000
rad33	6.41797e-10	1.000000	6.41797e-10	1.000000
rad14	3.90617e-10	1.000000	3.90617e-10	1.000000
rad27	3.58229e-10	1.000000	3.58229e-10	1.000000
rad25	2.28555e-10	1.000000	2.28555e-10	1.000000
rad45	5.17928e-11	1.000000	5.17928e-11	1.000000
rad46	2.10040e-11	1.000000	2.10040e-11	1.000000
rad36	3.21816e-12	1.000000	3.21816e-12	1.000000
rad22	2.13282e-12	1.000000	2.13282e-12	1.000000
rad60syn	4.91238e-13	1.000000	4.91238e-13	1.000000
PhCH2CCH+H	4.54189e-14	1.000000	4.54189e-14	1.000000
rad60anti	2.73368e-14	1.000000	2.73368e-14	1.000000
rad31	1.20287e-14	1.000000	1.20287e-14	1.000000
rad37	1.03970e-14	1.000000	1.03970e-14	1.000000
rad20	1.89810e-15	1.000000	1.89810e-15	1.000000
rad21	1.38202e-15	1.000000	1.38202e-15	1.000000
rad18	3.56761e-17	1.000000	3.56761e-17	1.000000
rad5	1.46020e-17	1.000000	1.46020e-17	1.000000
rad24	6.00134e-19	1.000000	6.00134e-19	1.000000
PAH3+H	1.43587e-21	1.000000	1.43587e-21	1.000000

rad59	7.19219e-22	1.000000	7.19219e-22	1.000000
rad50	1.30948e-22	1.000000	1.30948e-22	1.000000
rad19syn	7.02518e-28	1.000000	7.02518e-28	1.000000
rad52	5.97739e-32	1.000000	5.97739e-32	1.000000
rad54	4.63251e-32	1.000000	4.63251e-32	1.000000
PAH10+CH3	3.11380e-32	1.000000	3.11380e-32	1.000000
rad43	7.14592e-33	1.000000	7.14592e-33	1.000000
rad62	4.87436e-35	1.000000	4.87436e-35	1.000000
rad51	5.27677e-38	1.000000	5.27677e-38	1.000000
rad70	2.65744e-40	1.000000	2.65744e-40	1.000000
PhcycC3H3_A+H	1.26384e-40	1.000000	1.26384e-40	1.000000
rad55	6.71590e-41	1.000000	6.71590e-41	1.000000
rad65	1.10765e-42	1.000000	1.10765e-42	1.000000
rad58	4.66774e-44	1.000000	4.66774e-44	1.000000
PAH1+H	1.44633e-45	1.000000	1.44633e-45	1.000000
rad34	1.09062e-47	1.000000	1.09062e-47	1.000000
rad42	1.13615e-51	1.000000	1.13615e-51	1.000000
rad41	1.52856e-52	1.000000	1.52856e-52	1.000000
rad47	3.99503e-53	1.000000	3.99503e-53	1.000000

0.100000000E-01 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17336e-24 (1.00)	1.17336e-24 (1.00)
Formation of rad11	1.16857e-24 (0.996)	1.16857e-24 (0.996)
Formation of rad6	4.79505e-27 (0.00409)	4.79505e-27 (0.00409)
H-abstraction	5.89821e-31 (5.03e-07)	5.89821e-31 (5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.820725	0.820725	0.820725	0.820725
Indene+H	0.176438	0.997162	0.176438	0.997162
C2H2+PhCH2	0.00134668	0.998509	0.00134668	0.998509
rad2	0.000620522	0.999130	0.000620522	0.999130
rad28	0.000238182	0.999368	0.000238182	0.999368
PhCCH+CH3	0.000196461	0.999564	0.000196461	0.999564
PhCHCCH2+H	0.000123201	0.999688	0.000123201	0.999688
rad7	7.53193e-05	0.999763	7.53193e-05	0.999763
PhCCCH3+H	7.03199e-05	0.999833	7.03199e-05	0.999833
rad26	6.44915e-05	0.999898	6.44915e-05	0.999898
rad1	3.95420e-05	0.999937	3.95420e-05	0.999937
rad10	3.43899e-05	0.999972	3.43899e-05	0.999972
rad11	1.94087e-05	0.999991	1.94087e-05	0.999991
rad3	4.22529e-06	0.999995	4.22529e-06	0.999995
rad4	2.14057e-06	0.999997	2.14057e-06	0.999997
Ph+MeAc	1.02289e-06	0.999998	1.02289e-06	0.999998
rad8	5.70961e-07	0.999999	5.70961e-07	0.999999
Benzene+2-propynyl	5.02676e-07	0.999999	5.02676e-07	0.999999
rad9	4.89787e-07	1.000000	4.89787e-07	1.000000
rad13	3.33351e-07	1.000000	3.33351e-07	1.000000
rad30	7.13985e-08	1.000000	7.13985e-08	1.000000
PAH7+H	5.75993e-08	1.000000	5.75993e-08	1.000000
Phenyl+Allene	2.07283e-08	1.000000	0.000000	1.000000
PAH9+H	1.45073e-08	1.000000	1.45073e-08	1.000000
rad15	1.28263e-08	1.000000	1.28263e-08	1.000000
rad12	1.06180e-08	1.000000	1.06180e-08	1.000000
rad35	7.62017e-09	1.000000	7.62017e-09	1.000000
rad39	6.16939e-09	1.000000	6.16939e-09	1.000000
rad38	3.73725e-09	1.000000	3.73725e-09	1.000000
rad23	2.70959e-09	1.000000	2.70959e-09	1.000000
rad33	6.27386e-10	1.000000	6.27386e-10	1.000000
rad14	3.78580e-10	1.000000	3.78580e-10	1.000000
rad27	3.46706e-10	1.000000	3.46706e-10	1.000000
rad25	2.23048e-10	1.000000	2.23048e-10	1.000000
rad45	3.28133e-11	1.000000	3.28133e-11	1.000000
rad46	2.53652e-11	1.000000	2.53652e-11	1.000000
rad36	2.03726e-12	1.000000	2.03726e-12	1.000000
rad22	1.35417e-12	1.000000	1.35417e-12	1.000000
rad60syn	6.62769e-13	1.000000	6.62769e-13	1.000000
PhCH2CCH+H	1.79465e-13	1.000000	1.79465e-13	1.000000
rad60anti	5.81276e-14	1.000000	5.81276e-14	1.000000
rad37	4.06310e-14	1.000000	4.06310e-14	1.000000
rad31	1.17868e-14	1.000000	1.17868e-14	1.000000
rad20	1.89417e-15	1.000000	1.89417e-15	1.000000
rad21	1.38347e-15	1.000000	1.38347e-15	1.000000
rad5	5.83277e-17	1.000000	5.83277e-17	1.000000
rad18	3.11141e-17	1.000000	3.11141e-17	1.000000
rad24	3.89731e-19	1.000000	3.89731e-19	1.000000
PAH3+H	5.70914e-21	1.000000	5.70914e-21	1.000000

rad59	2.86348e-21	1.00000	2.86348e-21	1.00000
rad50	5.23993e-22	1.00000	5.23993e-22	1.00000
rad19syn	2.41121e-27	1.00000	2.41121e-27	1.00000
rad52	2.07879e-31	1.00000	2.07879e-31	1.00000
rad54	1.48016e-31	1.00000	1.48016e-31	1.00000
PAH10+CH3	9.99055e-32	1.00000	9.99055e-32	1.00000
rad43	2.29244e-32	1.00000	2.29244e-32	1.00000
rad62	1.50406e-34	1.00000	1.50406e-34	1.00000
rad51	1.62622e-37	1.00000	1.62622e-37	1.00000
rad70	7.70389e-40	1.00000	7.70389e-40	1.00000
PhcycC3H3_A+H	3.65149e-40	1.00000	3.65149e-40	1.00000
rad55	1.94107e-40	1.00000	1.94107e-40	1.00000
rad65	3.25635e-42	1.00000	3.25635e-42	1.00000
rad58	1.34517e-43	1.00000	1.34517e-43	1.00000
PAH1+H	4.12350e-45	1.00000	4.12350e-45	1.00000
rad34	3.11648e-47	1.00000	3.11648e-47	1.00000
rad42	3.31470e-51	1.00000	3.31470e-51	1.00000
rad41	4.58579e-52	1.00000	4.58579e-52	1.00000
rad47	9.67854e-53	1.00000	9.67854e-53	1.00000

0.100000000E-01 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.68112e-23 (1.00)	2.68112e-23 (1.00)
Formation of rad11	2.65890e-23 (0.992)	2.65889e-23 (0.992)
Formation of rad6	2.22189e-25 (0.00829)	2.22189e-25 (0.00829)
H-abstraction	1.05871e-28 (3.95e-06)	1.05871e-28 (3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.798689	0.798689	0.798689	0.798689
Indene+H	0.198153	0.996842	0.198153	0.996842
C2H2+PhCH2	0.00154750	0.998390	0.00154750	0.998390
rad2	0.000597931	0.998987	0.000597931	0.998987
rad28	0.000265967	0.999253	0.000265967	0.999253
PhCCH+CH3	0.000253636	0.999507	0.000253636	0.999507
PhCHCCH2+H	0.000157913	0.999665	0.000157913	0.999665
PhCCH3+H	9.13360e-05	0.999756	9.13360e-05	0.999756
rad7	7.24028e-05	0.999829	7.24028e-05	0.999829
rad26	6.83458e-05	0.999897	6.83458e-05	0.999897
rad1	3.82088e-05	0.999935	3.82088e-05	0.999935
rad10	3.29594e-05	0.999968	3.29594e-05	0.999968
rad11	1.85968e-05	0.999987	1.85968e-05	0.999987
rad3	4.04392e-06	0.999991	4.04392e-06	0.999991
Benzene+2-propynyl	3.94877e-06	0.999995	3.94877e-06	0.999995
rad4	2.05016e-06	0.999997	2.05016e-06	0.999997
Ph+MeAc	1.53496e-06	0.999998	1.53496e-06	0.999998
rad8	7.58941e-07	0.999999	7.58941e-07	0.999999
rad9	6.06265e-07	1.000000	6.06265e-07	1.000000
rad13	3.24820e-07	1.000000	3.24820e-07	1.000000
PAH7+H	9.11378e-08	1.000000	9.11379e-08	1.000000
rad30	8.29457e-08	1.000000	8.29458e-08	1.000000
Phenyl+Allene	3.49890e-08	1.000000	0.000000	1.000000
PAH9+H	1.69468e-08	1.000000	1.69468e-08	1.000000
rad12	1.61921e-08	1.000000	1.61921e-08	1.000000
rad15	1.50334e-08	1.000000	1.50334e-08	1.000000
rad39	1.03647e-08	1.000000	1.03647e-08	1.000000
rad35	8.85836e-09	1.000000	8.85836e-09	1.000000
rad38	4.38476e-09	1.000000	4.38476e-09	1.000000
rad23	1.86972e-09	1.000000	1.86972e-09	1.000000
rad33	6.12344e-10	1.000000	6.12344e-10	1.000000
rad14	3.66361e-10	1.000000	3.66361e-10	1.000000
rad27	3.34793e-10	1.000000	3.34793e-10	1.000000
rad25	2.17402e-10	1.000000	2.17402e-10	1.000000
rad46	3.08162e-11	1.000000	3.08162e-11	1.000000
rad45	2.22336e-11	1.000000	2.22336e-11	1.000000
rad36	1.37946e-12	1.000000	1.37946e-12	1.000000
rad22	9.19787e-13	1.000000	9.19787e-13	1.000000
rad60syn	9.14960e-13	1.000000	9.14960e-13	1.000000
PhCH2CCH+H	8.91717e-13	1.000000	8.91717e-13	1.000000
rad37	2.07500e-13	1.000000	2.07500e-13	1.000000
rad60anti	1.11116e-13	1.000000	1.11116e-13	1.000000
rad31	1.15478e-14	1.000000	1.15478e-14	1.000000
rad20	1.90415e-15	1.000000	1.90415e-15	1.000000
rad21	1.39468e-15	1.000000	1.39468e-15	1.000000
rad5	3.32642e-16	1.000000	3.32642e-16	1.000000
rad18	2.81008e-17	1.000000	2.81008e-17	1.000000
rad24	2.69858e-19	1.000000	2.69858e-19	1.000000
PAH3+H	3.66292e-20	1.000000	3.66292e-20	1.000000

rad59	1.83075e-20	1.00000	1.83075e-20	1.00000
rad50	3.23156e-21	1.00000	3.23156e-21	1.00000
rad19syn	1.56091e-26	1.00000	1.56091e-26	1.00000
rad52	1.35617e-30	1.00000	1.35617e-30	1.00000
rad54	9.10104e-31	1.00000	9.10104e-31	1.00000
PAH10+CH3	6.18430e-31	1.00000	6.18430e-31	1.00000
rad43	1.41908e-31	1.00000	1.41908e-31	1.00000
rad62	9.10152e-34	1.00000	9.10152e-34	1.00000
rad51	9.80661e-37	1.00000	9.80661e-37	1.00000
rad70	4.54309e-39	1.00000	4.54309e-39	1.00000
PhcycC3H3_A+H	2.15338e-39	1.00000	2.15338e-39	1.00000
rad55	1.14456e-39	1.00000	1.14456e-39	1.00000
rad65	1.92584e-41	1.00000	1.92584e-41	1.00000
rad58	7.93425e-43	1.00000	7.93425e-43	1.00000
PAH1+H	2.46801e-44	1.00000	2.46801e-44	1.00000
rad34	1.87966e-46	1.00000	1.87966e-46	1.00000
rad42	2.10732e-50	1.00000	2.10732e-50	1.00000
rad41	3.14447e-51	1.00000	3.14447e-51	1.00000
rad47	5.00892e-52	1.00000	5.00892e-52	1.00000

0.100000000E-01 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.08379e-22 (1.00)	3.08379e-22 (1.00)
Formation of rad11	3.03962e-22 (0.986)	3.03962e-22 (0.986)
Formation of rad6	4.41076e-24 (0.0143)	4.41076e-24 (0.0143)
H-abstraction	5.92916e-27 (1.92e-05)	5.92916e-27 (1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.775461	0.775461	0.775461	0.775461
Indene+H	0.221003	0.996464	0.221003	0.996464
C2H2+PhCH2	0.00177549	0.998239	0.00177549	0.998239
rad2	0.000574885	0.998814	0.000574885	0.998814
PhCCH+CH3	0.000323162	0.999137	0.000323162	0.999137
rad28	0.000290513	0.999428	0.000290513	0.999428
PhCHCCH2+H	0.000199417	0.999627	0.000199417	0.999627
PhCCH3+H	0.000116764	0.999744	0.000116764	0.999744
rad26	7.08055e-05	0.999815	7.08055e-05	0.999815
rad7	6.95880e-05	0.999884	6.95880e-05	0.999884
rad1	3.68492e-05	0.999921	3.68492e-05	0.999921
rad10	3.15492e-05	0.999953	3.15492e-05	0.999953
Benzene+2-propynyl	1.92269e-05	0.999972	1.92269e-05	0.999972
rad11	1.78278e-05	0.999990	1.78278e-05	0.999990
rad3	3.86796e-06	0.999994	3.86796e-06	0.999994
Ph+MeAc	2.28345e-06	0.999996	2.28345e-06	0.999996
rad4	1.96252e-06	0.999998	1.96252e-06	0.999998
rad8	9.94521e-07	0.999999	9.94521e-07	0.999999
rad9	7.55661e-07	1.000000	7.55661e-07	1.000000
rad13	3.15895e-07	1.00000	3.15895e-07	1.00000
PAH7+H	1.41083e-07	1.00000	1.41083e-07	1.00000
rad30	9.64088e-08	1.00000	9.64088e-08	1.00000
Phenyl+Allene	5.84105e-08	1.00000	0.00000	1.00000
rad12	2.40081e-08	1.00000	2.40081e-08	1.00000
PAH9+H	1.98258e-08	1.00000	1.98258e-08	1.00000
rad15	1.76568e-08	1.00000	1.76568e-08	1.00000
rad39	1.70690e-08	1.00000	1.70690e-08	1.00000
rad35	1.03036e-08	1.00000	1.03036e-08	1.00000
rad38	5.15609e-09	1.00000	5.15609e-09	1.00000
rad23	1.35105e-09	1.00000	1.35105e-09	1.00000
rad33	5.96442e-10	1.00000	5.96442e-10	1.00000
rad14	3.53972e-10	1.00000	3.53972e-10	1.00000
rad27	3.22682e-10	1.00000	3.22682e-10	1.00000
rad25	2.11505e-10	1.00000	2.11505e-10	1.00000
rad46	3.77435e-11	1.00000	3.77435e-11	1.00000
rad45	1.58242e-11	1.00000	1.58242e-11	1.00000
PhCH2CCH+H	4.33064e-12	1.00000	4.33064e-12	1.00000
rad60syn	1.28744e-12	1.00000	1.28744e-12	1.00000
rad37	1.07395e-12	1.00000	1.07395e-12	1.00000
rad36	9.81252e-13	1.00000	9.81252e-13	1.00000
rad22	6.56382e-13	1.00000	6.56382e-13	1.00000
rad60anti	1.97969e-13	1.00000	1.97969e-13	1.00000
rad31	1.13155e-14	1.00000	1.13155e-14	1.00000
rad5	2.10247e-15	1.00000	2.10247e-15	1.00000
rad20	1.92244e-15	1.00000	1.92244e-15	1.00000
rad21	1.41182e-15	1.00000	1.41182e-15	1.00000
rad18	2.59842e-17	1.00000	2.59842e-17	1.00000
PAH3+H	3.16467e-19	1.00000	3.16467e-19	1.00000
rad24	1.95851e-19	1.00000	1.95851e-19	1.00000

rad59	1.54952e-19	1.00000	1.54952e-19	1.00000
rad50	2.43273e-20	1.00000	2.43273e-20	1.00000
rad19syn	3.58825e-25	1.00000	3.58825e-25	1.00000
rad52	2.94271e-29	1.00000	2.94271e-29	1.00000
rad54	2.56447e-29	1.00000	2.56447e-29	1.00000
PAH10+CH3	1.69172e-29	1.00000	1.69172e-29	1.00000
rad43	3.94676e-30	1.00000	3.94676e-30	1.00000
rad62	2.15186e-32	1.00000	2.15186e-32	1.00000
rad51	2.31373e-35	1.00000	2.31373e-35	1.00000
rad70	1.07709e-37	1.00000	1.07709e-37	1.00000
PhcycC3H3_A+H	5.11743e-38	1.00000	5.11743e-38	1.00000
rad55	2.71867e-38	1.00000	2.71867e-38	1.00000
rad65	4.54409e-40	1.00000	4.54409e-40	1.00000
rad58	1.88941e-41	1.00000	1.88941e-41	1.00000
PAH1+H	6.06874e-43	1.00000	6.06874e-43	1.00000
rad34	4.67599e-45	1.00000	4.67599e-45	1.00000
rad42	5.80173e-49	1.00000	5.80174e-49	1.00000
rad41	1.01158e-49	1.00000	1.01158e-49	1.00000
rad47	1.07932e-50	1.00000	1.07932e-50	1.00000

0.100000000E-01 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14497e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.750819	0.750819	0.750819	0.750819
Indene+H	0.245176	0.995994	0.245176	0.995994
C2H2+PhCH2	0.00203657	0.998031	0.00203657	0.998031
rad2	0.000551442	0.998582	0.000551442	0.998582
PhCCH+CH3	0.000408304	0.998991	0.000408304	0.998991
rad28	0.000311478	0.999302	0.000311478	0.999302
PhCHCCH2+H	0.000249378	0.999551	0.000249378	0.999551
PhCCCH3+H	0.000147719	0.999699	0.000147719	0.999699
rad26	7.20818e-05	0.999771	7.20818e-05	0.999771
Benzene+2-propynyl	6.70630e-05	0.999838	6.70630e-05	0.999838
rad7	6.68027e-05	0.999905	6.68027e-05	0.999905
rad1	3.54656e-05	0.999941	3.54656e-05	0.999941
rad10	3.01512e-05	0.999971	3.01512e-05	0.999971
rad11	1.70784e-05	0.999988	1.70784e-05	0.999988
rad3	3.69512e-06	0.999991	3.69512e-06	0.999991
Ph+MeAc	3.37407e-06	0.999995	3.37407e-06	0.999995
rad4	1.87648e-06	0.999997	1.87648e-06	0.999997
rad8	1.29140e-06	0.999998	1.29140e-06	0.999998
rad9	9.48847e-07	0.999999	9.48847e-07	0.999999
rad13	3.06448e-07	0.999999	3.06448e-07	0.999999
PAH7+H	2.14598e-07	0.999999	2.14598e-07	0.999999
rad30	1.12259e-07	1.000000	1.12259e-07	1.000000
Phenyl+Allene	9.64652e-08	1.000000	0.000000	1.000000
rad12	3.48582e-08	1.000000	3.48582e-08	1.000000
rad39	2.76024e-08	1.000000	2.76024e-08	1.000000
PAH9+H	2.32607e-08	1.000000	2.32607e-08	1.000000
rad15	2.08067e-08	1.000000	2.08067e-08	1.000000
rad35	1.20082e-08	1.000000	1.20082e-08	1.000000
rad38	6.08531e-09	1.000000	6.08531e-09	1.000000
rad23	1.01088e-09	1.000000	1.01088e-09	1.000000
rad33	5.79469e-10	1.000000	5.79469e-10	1.000000
rad14	3.41319e-10	1.000000	3.41319e-10	1.000000
rad27	3.10366e-10	1.000000	3.10367e-10	1.000000
rad25	2.05264e-10	1.000000	2.05264e-10	1.000000
rad46	4.66624e-11	1.000000	4.66624e-11	1.000000
PhCH2CCH+H	1.81824e-11	1.000000	1.81824e-11	1.000000
rad45	1.16887e-11	1.000000	1.16887e-11	1.000000
rad37	4.76342e-12	1.000000	4.76342e-12	1.000000
rad60syn	1.84020e-12	1.000000	1.84020e-12	1.000000
rad36	7.24522e-13	1.000000	7.24522e-13	1.000000
rad22	4.86243e-13	1.000000	4.86243e-13	1.000000
rad60anti	3.36840e-13	1.000000	3.36840e-13	1.000000
rad5	1.17858e-14	1.000000	1.17858e-14	1.000000
rad31	1.10883e-14	1.000000	1.10883e-14	1.000000
rad20	1.94538e-15	1.000000	1.94538e-15	1.000000
rad21	1.43237e-15	1.000000	1.43237e-15	1.000000
rad18	2.44227e-17	1.000000	2.44227e-17	1.000000
PAH3+H	2.58090e-18	1.000000	2.58090e-18	1.000000
rad59	1.21918e-18	1.000000	1.21918e-18	1.000000

rad50	1.66498e-19	1.000000	1.66498e-19	1.000000
rad24	1.47290e-19	1.000000	1.47290e-19	1.000000
rad19syn	1.98002e-23	1.000000	1.98002e-23	1.000000
rad54	4.13654e-27	1.000000	4.13654e-27	1.000000
PAH10+CH3	2.70914e-27	1.000000	2.70914e-27	1.000000
rad52	1.39281e-27	1.000000	1.39281e-27	1.000000
rad43	6.41389e-28	1.000000	6.41389e-28	1.000000
rad62	8.47278e-30	1.000000	8.47278e-30	1.000000
rad51	9.19865e-33	1.000000	9.19865e-33	1.000000
rad70	2.29488e-35	1.000000	2.29488e-35	1.000000
PhcycC3H3_A+H	1.09466e-35	1.000000	1.09466e-35	1.000000
rad55	5.81124e-36	1.000000	5.81124e-36	1.000000
rad65	9.58015e-38	1.000000	9.58015e-38	1.000000
rad58	4.05495e-39	1.000000	4.05495e-39	1.000000
PAH1+H	1.36008e-40	1.000000	1.36008e-40	1.000000
rad34	1.06262e-42	1.000000	1.06262e-42	1.000000
rad42	1.41896e-46	1.000000	1.41896e-46	1.000000
rad41	2.67743e-47	1.000000	2.67743e-47	1.000000
rad47	2.14041e-48	1.000000	2.14041e-48	1.000000

0.100000000E-01 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06527e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44008e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.724577	0.724577	0.724577	0.724577
Indene+H	0.270808	0.995385	0.270808	0.995385
C2H2+PhCH2	0.00233713	0.997722	0.00233713	0.997722
rad2	0.000527529	0.998250	0.000527529	0.998250
PhCCH+CH3	0.000512782	0.998763	0.000512782	0.998763
rad28	0.000328497	0.999091	0.000328497	0.999091
PhCHCCH2+H	0.000309651	0.999401	0.000309651	0.999401
PhCCH3+H	0.000185451	0.999586	0.000185451	0.999586
Benzene+2-propynyl	0.000183695	0.999770	0.000183695	0.999770
rad26	7.23428e-05	0.999842	7.23428e-05	0.999842
rad7	6.39969e-05	0.999906	6.39969e-05	0.999906
rad1	3.40524e-05	0.999940	3.40524e-05	0.999940
rad10	2.87537e-05	0.999969	2.87537e-05	0.999969
rad11	1.63329e-05	0.999985	1.63329e-05	0.999985
Ph+MeAc	4.94850e-06	0.999990	4.94850e-06	0.999990
rad3	3.52331e-06	0.999994	3.52331e-06	0.999994
rad4	1.79097e-06	0.999996	1.79097e-06	0.999996
rad8	1.66565e-06	0.999997	1.66565e-06	0.999997
rad9	1.19942e-06	0.999998	1.19942e-06	0.999998
PAH7+H	3.21080e-07	0.999999	3.21080e-07	0.999999
rad13	2.96379e-07	0.999999	2.96379e-07	0.999999
Phenyl+Allene	1.57368e-07	0.999999	0.000000	0.999999
rad30	1.31028e-07	0.999999	1.31028e-07	0.999999
rad12	4.97292e-08	0.999999	4.97292e-08	0.999999
rad39	4.37925e-08	0.999999	4.37925e-08	0.999999
PAH9+H	2.73875e-08	0.999999	2.73875e-08	0.999999
rad15	2.46118e-08	1.000000	2.46118e-08	0.999999
rad35	1.40317e-08	1.000000	1.40317e-08	0.999999
rad38	7.21271e-09	1.000000	7.21271e-09	0.999999
rad23	7.76966e-10	1.000000	7.76966e-10	0.999999
rad33	5.61252e-10	1.000000	5.61252e-10	0.999999
rad14	3.28288e-10	1.000000	3.28288e-10	0.999999
rad27	2.97781e-10	1.000000	2.97781e-10	0.999999
rad25	1.98608e-10	1.000000	1.98608e-10	0.999999
PhCH2CCH+H	6.48632e-11	1.000000	6.48632e-11	0.999999
rad46	5.82392e-11	1.000000	5.82392e-11	0.999999
rad37	1.74221e-11	1.000000	1.74221e-11	0.999999
rad45	8.88524e-12	1.000000	8.88524e-12	0.999999
rad60syn	2.65990e-12	1.000000	2.65990e-12	0.999999
rad60anti	5.55220e-13	1.000000	5.55220e-13	0.999999
rad36	5.50623e-13	1.000000	5.50623e-13	0.999999
rad22	3.70758e-13	1.000000	3.70758e-13	0.999999
rad5	5.46170e-14	1.000000	5.46170e-14	0.999999
rad31	1.08621e-14	1.000000	1.08621e-14	0.999999
rad20	1.97030e-15	1.000000	1.97030e-15	0.999999
rad21	1.45445e-15	1.000000	1.45445e-15	0.999999
rad18	2.32186e-17	1.000000	2.32186e-17	0.999999
PAH3+H	1.68545e-17	1.000000	1.68545e-17	0.999999
rad59	7.63253e-18	1.000000	7.63253e-18	0.999999

rad50	9.27838e-19	1.000000	9.27838e-19	0.999999
rad24	1.13864e-19	1.000000	1.13864e-19	0.999999
rad19syn	7.85838e-22	1.000000	7.85838e-22	0.999999
rad54	3.82166e-25	1.000000	3.82166e-25	0.999999
PAH10+CH3	2.50638e-25	1.000000	2.50638e-25	0.999999
rad43	5.99494e-26	1.000000	5.99494e-26	0.999999
rad52	4.82573e-26	1.000000	4.82573e-26	0.999999
rad62	1.40965e-27	1.000000	1.40965e-27	0.999999
rad51	1.46500e-30	1.000000	1.46500e-30	0.999999
rad70	1.20471e-32	1.000000	1.20471e-32	0.999999
PhcycC3H3_A+H	5.77600e-33	1.000000	5.77600e-33	0.999999
rad55	3.06356e-33	1.000000	3.06356e-33	0.999999
rad65	1.83607e-34	1.000000	1.83607e-34	0.999999
rad58	2.14864e-36	1.000000	2.14864e-36	0.999999
PAH1+H	7.59136e-38	1.000000	7.59137e-38	0.999999
rad34	6.01788e-40	1.000000	6.01788e-40	0.999999
rad42	8.23100e-44	1.000000	8.23101e-44	0.999999
rad41	1.52519e-44	1.000000	1.52519e-44	0.999999
rad47	1.06342e-45	1.000000	1.06342e-45	0.999999

0.100000000E-01 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.696608	0.696608	0.696609	0.696609
Indene+H	0.297964	0.994572	0.297964	0.994573
C2H2+PhCH2	0.00268357	0.997256	0.00268357	0.997257
PhCCH+CH3	0.000640695	0.997896	0.000640695	0.997897
rad2	0.000503053	0.998399	0.000503053	0.998400
Benzene+2-propynyl	0.000420064	0.998819	0.000420064	0.998820
PhCHCCH2+H	0.000382220	0.999202	0.000382220	0.999203
rad28	0.000341249	0.999543	0.000341249	0.999544
PhCCCH3+H	0.000231311	0.999774	0.000231311	0.999775
rad26	7.17280e-05	0.999846	7.17280e-05	0.999847
rad7	6.11364e-05	0.999907	6.11364e-05	0.999908
rad1	3.26024e-05	0.999940	3.26024e-05	0.999941
rad10	2.73467e-05	0.999967	2.73467e-05	0.999968
rad11	1.55806e-05	0.999983	1.55806e-05	0.999984
Ph+MeAc	7.19139e-06	0.999990	7.19139e-06	0.999991
rad3	3.35088e-06	0.999993	3.35088e-06	0.999994
rad8	2.13552e-06	0.999995	2.13552e-06	0.999996
rad4	1.70513e-06	0.999997	1.70513e-06	0.999998
rad9	1.52398e-06	0.999999	1.52398e-06	1.000000
PAH7+H	4.72462e-07	0.999999	4.72462e-07	1.000000
rad13	2.85611e-07	0.999999	2.85611e-07	1.000000
Phenyl+Allene	2.53142e-07	1.000000	0.000000	1.000000
rad30	1.53293e-07	1.000000	1.53293e-07	1.000000
rad12	6.98126e-08	1.000000	6.98126e-08	1.000000
rad39	6.80792e-08	1.000000	6.80792e-08	1.000000
PAH9+H	3.23598e-08	1.000000	3.23598e-08	1.000000
rad15	2.92175e-08	1.000000	2.92175e-08	1.000000
rad35	1.64403e-08	1.000000	1.64403e-08	1.000000
rad38	8.58477e-09	1.000000	8.58477e-09	1.000000
rad23	6.09861e-10	1.000000	6.09861e-10	1.000000
rad33	5.41660e-10	1.000000	5.41661e-10	1.000000
rad14	3.14782e-10	1.000000	3.14782e-10	1.000000
rad27	2.84853e-10	1.000000	2.84853e-10	1.000000
PhCH2CCH+H	1.99998e-10	1.000000	1.99998e-10	1.000000
rad25	1.91485e-10	1.000000	1.91485e-10	1.000000
rad46	7.33209e-11	1.000000	7.33209e-11	1.000000
rad37	5.33389e-11	1.000000	5.33389e-11	1.000000
rad45	6.90759e-12	1.000000	6.90759e-12	1.000000
rad60syn	3.86836e-12	1.000000	3.86836e-12	1.000000
rad60anti	8.93547e-13	1.000000	8.93547e-13	1.000000
rad36	4.28046e-13	1.000000	4.28046e-13	1.000000
rad22	2.89170e-13	1.000000	2.89170e-13	1.000000
rad5	2.10234e-13	1.000000	2.10234e-13	1.000000
rad31	1.06334e-14	1.000000	1.06334e-14	1.000000
rad20	1.99507e-15	1.000000	1.99507e-15	1.000000
rad21	1.47656e-15	1.000000	1.47656e-15	1.000000
PAH3+H	8.69140e-17	1.000000	8.69140e-17	1.000000
rad59	3.76777e-17	1.000000	3.76777e-17	1.000000
rad18	2.22492e-17	1.000000	2.22492e-17	1.000000

rad50	4.20648e-18	1.000000	4.20648e-18	1.000000
rad24	8.99471e-20	1.000000	8.99471e-20	1.000000
rad19syn	1.84820e-20	1.000000	1.84820e-20	1.000000
rad54	1.70443e-23	1.000000	1.70443e-23	1.000000
PAH10+CH3	1.12580e-23	1.000000	1.12580e-23	1.000000
rad43	2.71175e-24	1.000000	2.71175e-24	1.000000
rad52	1.01736e-24	1.000000	1.01736e-24	1.000000
rad62	9.86150e-26	1.000000	9.86151e-26	1.000000
rad51	1.01877e-28	1.000000	1.01877e-28	1.000000
rad70	3.01062e-29	1.000000	3.01062e-29	1.000000
PhcycC3H3_A+H	1.83886e-29	1.000000	1.83886e-29	1.000000
rad55	1.00948e-29	1.000000	1.00948e-29	1.000000
rad65	3.58218e-32	1.000000	3.58218e-32	1.000000
rad58	8.78618e-33	1.000000	8.78619e-33	1.000000
PAH1+H	6.34600e-35	1.000000	6.34600e-35	1.000000
rad34	5.10399e-37	1.000000	5.10399e-37	1.000000
rad42	6.91138e-41	1.000000	6.91139e-41	1.000000
rad41	1.15930e-41	1.000000	1.15930e-41	1.000000
rad47	7.94451e-43	1.000000	7.94451e-43	1.000000

0.100000000E-01 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.33719e-19 (1.00)	1.33719e-19 (1.00)
Formation of rad11	1.26517e-19 (0.946)	1.26517e-19 (0.946)
Formation of rad6	7.08974e-21 (0.0530)	7.08974e-21 (0.0530)
H-abstraction	1.11864e-22 (0.000837)	1.11864e-22 (0.000837)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.666861	0.666861	0.666861	0.666861
Indene+H	0.326619	0.993479	0.326619	0.993479
C2H2+PhCH2	0.00308225	0.996561	0.00308225	0.996561
Benzene+2-propynyl	0.000836559	0.997398	0.000836559	0.997398
PhCCH+CH3	0.000796441	0.998194	0.000796442	0.998194
rad2	0.000477950	0.998672	0.000477950	0.998672
PhCHCCH2+H	0.000469152	0.999142	0.000469152	0.999142
rad28	0.000349517	0.999491	0.000349517	0.999491
PhCCCH3+H	0.000286710	0.999778	0.000286710	0.999778
rad26	7.03575e-05	0.999848	7.03576e-05	0.999848
rad7	5.82004e-05	0.999906	5.82004e-05	0.999906
rad1	3.11104e-05	0.999937	3.11105e-05	0.999937
rad10	2.59227e-05	0.999963	2.59227e-05	0.999963
rad11	1.48147e-05	0.999978	1.48147e-05	0.999978
Ph+MeAc	1.03374e-05	0.999989	1.03374e-05	0.999989
rad3	3.17670e-06	0.999992	3.17670e-06	0.999992
rad8	2.72122e-06	0.999994	2.72123e-06	0.999994
rad9	1.94235e-06	0.999996	1.94235e-06	0.999996
rad4	1.61839e-06	0.999998	1.61839e-06	0.999998
PAH7+H	6.83484e-07	0.999999	6.83484e-07	0.999999
Phenyl+Allene	4.00978e-07	0.999999	0.000000	0.999999
rad13	2.74109e-07	0.999999	2.74109e-07	0.999999
rad30	1.79673e-07	1.000000	1.79673e-07	0.999999
rad39	1.03624e-07	1.000000	1.03624e-07	0.999999
rad12	9.65077e-08	1.000000	9.65077e-08	0.999999
PAH9+H	3.83497e-08	1.000000	3.83497e-08	0.999999
rad15	3.47861e-08	1.000000	3.47861e-08	0.999999
rad35	1.93053e-08	1.000000	1.93053e-08	0.999999
rad38	1.02544e-08	1.000000	1.02544e-08	0.999999
PhCH2CCH+H	5.45307e-10	1.000000	5.45307e-10	0.999999
rad33	5.20624e-10	1.000000	5.20625e-10	0.999999
rad23	4.86681e-10	1.000000	4.86681e-10	0.999999
rad14	3.00735e-10	1.000000	3.00736e-10	0.999999
rad27	2.71532e-10	1.000000	2.71532e-10	0.999999
rad25	1.83868e-10	1.000000	1.83868e-10	0.999999
rad37	1.40454e-10	1.000000	1.40454e-10	0.999999
rad46	9.29734e-11	1.000000	9.29734e-11	0.999999
rad60syn	5.63361e-12	1.000000	5.63362e-12	0.999999
rad45	5.46624e-12	1.000000	5.46624e-12	0.999999
rad60anti	1.40983e-12	1.000000	1.40983e-12	0.999999
rad5	6.88851e-13	1.000000	6.88852e-13	0.999999
rad36	3.38780e-13	1.000000	3.38780e-13	0.999999
rad22	2.29605e-13	1.000000	2.29605e-13	0.999999
rad31	1.03989e-14	1.000000	1.03989e-14	0.999999
rad20	2.01791e-15	1.000000	2.01791e-15	0.999999
rad21	1.49741e-15	1.000000	1.49741e-15	0.999999
PAH3+H	3.64602e-16	1.000000	3.64603e-16	0.999999
rad59	1.51420e-16	1.000000	1.51420e-16	0.999999
rad18	2.14334e-17	1.000000	2.14334e-17	0.999999

rad50	1.59633e-17	1.000000	1.59633e-17	0.999999
rad19syn	2.76169e-19	1.000000	2.76169e-19	0.999999
rad24	7.22818e-20	1.000000	7.22818e-20	0.999999
rad54	4.29131e-22	1.000000	4.29131e-22	0.999999
PAH10+CH3	2.85497e-22	1.000000	2.85497e-22	0.999999
rad43	6.91201e-23	1.000000	6.91201e-23	0.999999
rad52	1.39079e-23	1.000000	1.39079e-23	0.999999
rad62	3.45275e-24	1.000000	3.45275e-24	0.999999
rad51	3.55967e-27	1.000000	3.55967e-27	0.999999
rad70	2.66519e-27	1.000000	2.66519e-27	0.999999
PhcycC3H3_A+H	2.10692e-27	1.000000	2.10692e-27	0.999999
rad55	9.53712e-28	1.000000	9.53713e-28	0.999999
rad65	2.38417e-30	1.000000	2.38417e-30	0.999999
rad58	1.11108e-30	1.000000	1.11108e-30	0.999999
PAH1+H	4.32132e-32	1.000000	4.32132e-32	0.999999
rad34	3.52703e-34	1.000000	3.52703e-34	0.999999
rad42	4.80283e-38	1.000000	4.80283e-38	0.999999
rad41	7.36255e-39	1.000000	7.36255e-39	0.999999
rad47	3.54299e-39	1.000000	3.54299e-39	0.999999

0.100000000E-01 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.59582e-19 (1.00)	3.59582e-19 (1.00)
Formation of rad11	3.35703e-19 (0.934)	3.35703e-19 (0.934)
Formation of rad6	2.33415e-20 (0.0649)	2.33415e-20 (0.0649)
H-abstraction	5.37685e-22 (0.00150)	5.37685e-22 (0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.635368	0.635368	0.635368	0.635368
Indene+H	0.356663	0.992030	0.356664	0.992031
C2H2+PhCH2	0.00353918	0.995570	0.00353918	0.995571
Benzene+2-propynyl	0.00149531	0.997065	0.00149531	0.997066
PhCCH+CH3	0.000984632	0.998050	0.000984632	0.998051
PhCHCCH2+H	0.000572530	0.998622	0.000572531	0.998623
rad2	0.000452210	0.999074	0.000452211	0.999075
rad28	0.000353228	0.999427	0.000353228	0.999428
PhCCCH3+H	0.000353084	0.999781	0.000353084	0.999782
rad26	6.83400e-05	0.999849	6.83400e-05	0.999850
rad7	5.51796e-05	0.999904	5.51796e-05	0.999905
rad1	2.95744e-05	0.999934	2.95744e-05	0.999935
rad10	2.44783e-05	0.999958	2.44783e-05	0.999959
Ph+MeAc	1.46778e-05	0.999973	1.46778e-05	0.999974
rad11	1.40318e-05	0.999987	1.40318e-05	0.999988
rad8	3.44457e-06	0.999990	3.44458e-06	0.999991
rad3	3.00019e-06	0.999993	3.00019e-06	0.999994
rad9	2.47788e-06	0.999996	2.47788e-06	0.999997
rad4	1.53043e-06	0.999997	1.53043e-06	0.999998
PAH7+H	9.71926e-07	0.999998	9.71927e-07	0.999999
Phenyl+Allene	6.24896e-07	0.999999	0.000000	0.999999
rad13	2.61869e-07	0.999999	2.61869e-07	1.000000
rad30	2.10814e-07	0.999999	2.10814e-07	1.000000
rad39	1.54414e-07	1.000000	1.54414e-07	1.000000
rad12	1.31417e-07	1.000000	1.31417e-07	1.000000
PAH9+H	4.55473e-08	1.000000	4.55473e-08	1.000000
rad15	4.14950e-08	1.000000	4.14950e-08	1.000000
rad35	2.27041e-08	1.000000	2.27041e-08	1.000000
rad38	1.22812e-08	1.000000	1.22812e-08	1.000000
PhCH2CCH+H	1.34209e-09	1.000000	1.34209e-09	1.000000
rad33	4.98139e-10	1.000000	4.98139e-10	1.000000
rad23	3.93489e-10	1.000000	3.93489e-10	1.000000
rad37	3.26517e-10	1.000000	3.26517e-10	1.000000
rad14	2.86127e-10	1.000000	2.86127e-10	1.000000
rad27	2.57797e-10	1.000000	2.57797e-10	1.000000
rad25	1.75753e-10	1.000000	1.75753e-10	1.000000
rad46	1.18526e-10	1.000000	1.18527e-10	1.000000
rad60syn	8.18359e-12	1.000000	8.18359e-12	1.000000
rad45	4.38699e-12	1.000000	4.38700e-12	1.000000
rad60anti	2.18541e-12	1.000000	2.18542e-12	1.000000
rad5	1.97125e-12	1.000000	1.97126e-12	1.000000
rad36	2.71991e-13	1.000000	2.71992e-13	1.000000
rad22	1.84914e-13	1.000000	1.84914e-13	1.000000
rad31	1.01563e-14	1.000000	1.01563e-14	1.000000
rad20	2.03728e-15	1.000000	2.03729e-15	1.000000
rad21	1.51587e-15	1.000000	1.51587e-15	1.000000
PAH3+H	1.28846e-15	1.000000	1.28846e-15	1.000000
rad59	5.13507e-16	1.000000	5.13508e-16	1.000000
rad50	5.22864e-17	1.000000	5.22865e-17	1.000000

rad18	2.07150e-17	1.000000	2.07150e-17	1.000000
rad19syn	2.85111e-18	1.000000	2.85111e-18	1.000000
rad24	5.88848e-20	1.000000	5.88848e-20	1.000000
rad54	6.87834e-21	1.000000	6.87834e-21	1.000000
PAH10+CH3	4.60742e-21	1.000000	4.60743e-21	1.000000
rad43	1.11988e-21	1.000000	1.11988e-21	1.000000
rad52	1.33563e-22	1.000000	1.33563e-22	1.000000
rad62	7.28630e-23	1.000000	7.28631e-23	1.000000
rad70	1.13232e-25	1.000000	1.13232e-25	1.000000
PhcycC3H3_A+H	1.03835e-25	1.000000	1.03835e-25	1.000000
rad51	7.53702e-26	1.000000	7.53703e-26	1.000000
rad55	4.25909e-26	1.000000	4.25909e-26	1.000000
PAH1+H	1.70382e-28	1.000000	1.70382e-28	1.000000
rad65	7.99375e-29	1.000000	7.99376e-29	1.000000
rad58	5.91423e-29	1.000000	5.91423e-29	1.000000
rad34	4.07910e-30	1.000000	4.07910e-30	1.000000
rad42	1.04840e-34	1.000000	1.04840e-34	1.000000
rad41	1.48667e-35	1.000000	1.48667e-35	1.000000
rad47	2.43752e-37	1.000000	2.43752e-37	1.000000

0.100000000E-01 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.51464e-19 (1.00)	8.51463e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83710e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56651e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.602251	0.602251	0.602252	0.602252
Indene+H	0.387904	0.990156	0.387904	0.990157
C2H2+PhCH2	0.00405994	0.994216	0.00405994	0.994217
Benzene+2-propynyl	0.00245244	0.996668	0.00245244	0.996669
PhCCH+CH3	0.00120996	0.997878	0.00120997	0.997879
PhCHCCH2+H	0.000694392	0.998572	0.000694392	0.998573
PhCCCH3+H	0.000431838	0.999004	0.000431838	0.999005
rad2	0.000425884	0.999430	0.000425884	0.999431
rad28	0.000352459	0.999783	0.000352459	0.999784
rad26	6.57760e-05	0.999848	6.57760e-05	0.999849
rad7	5.20755e-05	0.999900	5.20756e-05	0.999901
rad1	2.79961e-05	0.999928	2.79961e-05	0.999929
rad10	2.30141e-05	0.999952	2.30142e-05	0.999953
Ph+MeAc	2.05646e-05	0.999972	2.05646e-05	0.999973
rad11	1.32315e-05	0.999985	1.32315e-05	0.999986
rad8	4.32847e-06	0.999990	4.32847e-06	0.999991
rad9	3.15744e-06	0.999993	3.15745e-06	0.999994
rad3	2.82133e-06	0.999996	2.82133e-06	0.999997
rad4	1.44121e-06	0.999997	1.44121e-06	0.999998
PAH7+H	1.35879e-06	0.999998	1.35880e-06	0.999999
Phenyl+Allene	9.57695e-07	0.999999	0.000000	0.999999
rad13	2.48929e-07	1.000000	2.48929e-07	1.000000
rad30	2.47388e-07	1.000000	2.47388e-07	1.000000
rad39	2.25353e-07	1.000000	2.25353e-07	1.000000
rad12	1.76328e-07	1.000000	1.76328e-07	1.000000
PAH9+H	5.41606e-08	1.000000	5.41607e-08	1.000000
rad15	4.95364e-08	1.000000	4.95365e-08	1.000000
rad35	2.67180e-08	1.000000	2.67180e-08	1.000000
rad38	1.47318e-08	1.000000	1.47318e-08	1.000000
PhCH2CCH+H	3.03234e-09	1.000000	3.03235e-09	1.000000
rad37	6.85018e-10	1.000000	6.85019e-10	1.000000
rad33	4.74271e-10	1.000000	4.74272e-10	1.000000
rad23	3.21445e-10	1.000000	3.21445e-10	1.000000
rad14	2.70974e-10	1.000000	2.70974e-10	1.000000
rad27	2.43666e-10	1.000000	2.43666e-10	1.000000
rad25	1.67164e-10	1.000000	1.67164e-10	1.000000
rad46	1.51620e-10	1.000000	1.51621e-10	1.000000
rad60syn	1.18224e-11	1.000000	1.18224e-11	1.000000
rad5	5.03700e-12	1.000000	5.03701e-12	1.000000
rad45	3.56051e-12	1.000000	3.56052e-12	1.000000
rad60anti	3.33199e-12	1.000000	3.33200e-12	1.000000
rad36	2.20882e-13	1.000000	2.20882e-13	1.000000
rad22	1.50611e-13	1.000000	1.50612e-13	1.000000
rad31	9.90425e-15	1.000000	9.90426e-15	1.000000
PAH3+H	3.95492e-15	1.000000	3.95492e-15	1.000000
rad20	2.05189e-15	1.000000	2.05189e-15	1.000000
rad21	1.53100e-15	1.000000	1.53100e-15	1.000000
rad59	1.51575e-15	1.000000	1.51575e-15	1.000000
rad50	1.51746e-16	1.000000	1.51747e-16	1.000000

rad19syn	2.18013e-17	1.00000	2.18013e-17	1.00000
rad18	2.00548e-17	1.00000	2.00548e-17	1.00000
rad54	7.66534e-20	1.00000	7.66535e-20	1.00000
PAH10+CH3	5.16612e-20	1.00000	5.16612e-20	1.00000
rad24	4.84986e-20	1.00000	4.84987e-20	1.00000
rad43	1.25916e-20	1.00000	1.25916e-20	1.00000
rad62	1.02755e-21	1.00000	1.02755e-21	1.00000
rad52	9.63584e-22	1.00000	9.63585e-22	1.00000
PhcycC3H3_A+H	2.75383e-24	1.00000	2.75383e-24	1.00000
rad70	2.74902e-24	1.00000	2.74903e-24	1.00000
rad51	1.07283e-24	1.00000	1.07283e-24	1.00000
rad55	1.06831e-24	1.00000	1.06831e-24	1.00000
PAH1+H	8.33276e-27	1.00000	8.33277e-27	1.00000
rad65	1.65536e-27	1.00000	1.65536e-27	1.00000
rad58	1.64912e-27	1.00000	1.64912e-27	1.00000
rad34	2.49302e-28	1.00000	2.49302e-28	1.00000
rad42	7.77863e-31	1.00000	7.77864e-31	1.00000
rad41	1.59533e-31	1.00000	1.59533e-31	1.00000
rad47	7.43586e-36	1.00000	7.43587e-36	1.00000

0.100000000E-01 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.81800e-18 (1.00)	1.81800e-18 (1.00)
Formation of rad11	1.64862e-18 (0.907)	1.64862e-18 (0.907)
Formation of rad6	1.62558e-19 (0.0894)	1.62558e-19 (0.0894)
H-abstraction	6.82130e-21 (0.00375)	6.82130e-21 (0.00375)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.567725	0.567725	0.567725	0.567725
Indene+H	0.420071	0.987796	0.420072	0.987797
C2H2+PhCH2	0.00464946	0.992445	0.00464947	0.992446
Benzene+2-propynyl	0.00375209	0.996197	0.00375209	0.996198
PhCCH+CH3	0.00147706	0.997674	0.00147706	0.997675
PhCHCCH2+H	0.000836651	0.998511	0.000836652	0.998512
PhCCCH3+H	0.000524290	0.999035	0.000524291	0.999036
rad2	0.000399082	0.999434	0.000399083	0.999435
rad28	0.000347440	0.999782	0.000347440	0.999783
rad26	6.27615e-05	0.999845	6.27616e-05	0.999846
rad7	4.88991e-05	0.999893	4.88992e-05	0.999894
Ph+MeAc	2.84128e-05	0.999922	2.84128e-05	0.999923
rad1	2.63811e-05	0.999948	2.63811e-05	0.999949
rad10	2.15345e-05	0.999970	2.15345e-05	0.999971
rad11	1.24158e-05	0.999982	1.24159e-05	0.999983
rad8	5.39622e-06	0.999988	5.39623e-06	0.999989
rad9	4.01151e-06	0.999992	4.01152e-06	0.999993
rad3	2.64058e-06	0.999994	2.64058e-06	0.999995
PAH7+H	1.86839e-06	0.999996	1.86839e-06	0.999997
Phenyl+Allene	1.44316e-06	0.999998	0.00000	0.999997
rad4	1.35094e-06	0.999999	1.35094e-06	0.999998
rad39	3.22337e-07	0.999999	3.22338e-07	0.999999
rad30	2.90070e-07	1.000000	2.90070e-07	0.999999
rad13	2.35364e-07	1.000000	2.35364e-07	0.999999
rad12	2.33177e-07	1.000000	2.33177e-07	1.000000
PAH9+H	6.44154e-08	1.000000	6.44155e-08	1.000000
rad15	5.91155e-08	1.000000	5.91156e-08	1.000000
rad35	3.14327e-08	1.000000	3.14328e-08	1.000000
rad38	1.76797e-08	1.000000	1.76797e-08	1.000000
PhCH2CCH+H	6.37525e-09	1.000000	6.37526e-09	1.000000
rad37	1.32023e-09	1.000000	1.32023e-09	1.000000
rad33	4.49157e-10	1.000000	4.49158e-10	1.000000
rad23	2.64742e-10	1.000000	2.64743e-10	1.000000
rad14	2.55339e-10	1.000000	2.55340e-10	1.000000
rad27	2.29192e-10	1.000000	2.29192e-10	1.000000
rad46	1.94265e-10	1.000000	1.94266e-10	1.000000
rad25	1.58148e-10	1.000000	1.58148e-10	1.000000
rad60syn	1.69491e-11	1.000000	1.69492e-11	1.000000
rad5	1.17026e-11	1.000000	1.17026e-11	1.000000
rad60anti	4.99996e-12	1.000000	4.99996e-12	1.000000
rad45	2.91566e-12	1.000000	2.91567e-12	1.000000
rad36	1.81033e-13	1.000000	1.81033e-13	1.000000
rad22	1.23776e-13	1.000000	1.23776e-13	1.000000
PAH3+H	1.08108e-14	1.000000	1.08108e-14	1.000000
rad31	9.64287e-15	1.000000	9.64288e-15	1.000000
rad59	3.99302e-15	1.000000	3.99302e-15	1.000000
rad20	2.06066e-15	1.000000	2.06066e-15	1.000000
rad21	1.54198e-15	1.000000	1.54199e-15	1.000000
rad50	3.98565e-16	1.000000	3.98565e-16	1.000000

rad19syn	1.30425e-16	1.00000	1.30426e-16	1.000000
rad18	1.94243e-17	1.00000	1.94244e-17	1.000000
rad54	6.35553e-19	1.00000	6.35554e-19	1.000000
PAH10+CH3	4.30571e-19	1.00000	4.30572e-19	1.000000
rad43	1.05103e-19	1.00000	1.05104e-19	1.000000
rad24	4.02978e-20	1.00000	4.02979e-20	1.000000
rad62	1.04456e-20	1.00000	1.04456e-20	1.000000
rad52	5.50674e-21	1.00000	5.50675e-21	1.000000
PhcycC3H3_A+H	4.82312e-23	1.00000	4.82313e-23	1.000000
rad70	4.45552e-23	1.00000	4.45553e-23	1.000000
rad55	1.77948e-23	1.00000	1.77949e-23	1.000000
rad51	1.10788e-23	1.00000	1.10788e-23	1.000000
PAH1+H	2.22910e-25	1.00000	2.22910e-25	1.000000
rad58	3.00856e-26	1.00000	3.00856e-26	1.000000
rad65	2.35668e-26	1.00000	2.35669e-26	1.000000
rad34	7.76436e-27	1.00000	7.76437e-27	1.000000
rad42	4.03446e-29	1.00000	4.03447e-29	1.000000
rad41	9.68454e-30	1.00000	9.68455e-30	1.000000
rad47	1.38728e-34	1.00000	1.38728e-34	1.000000

0.100000000E-01 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.56414e-18 (1.00)	3.56413e-18 (1.00)
Formation of rad11	3.18264e-18 (0.893)	3.18263e-18 (0.893)
Formation of rad6	3.62173e-19 (0.102)	3.62172e-19 (0.102)
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.532077	0.532077	0.532078	0.532078
Indene+H	0.452833	0.984910	0.452834	0.984912
Benzene+2-propynyl	0.00542285	0.990333	0.00542286	0.990335
C2H2+PhCH2	0.00531191	0.995645	0.00531192	0.995647
PhCCH+CH3	0.00179033	0.997435	0.00179033	0.997437
PhCHCCH2+H	0.00100102	0.998436	0.00100102	0.998438
PhCCCH3+H	0.000631612	0.999068	0.000631613	0.999070
rad2	0.000371973	0.999440	0.000371974	0.999442
rad28	0.000338535	0.999778	0.000338535	0.999780
rad26	5.93892e-05	0.999837	5.93893e-05	0.999839
rad7	4.56693e-05	0.999883	4.56694e-05	0.999885
Ph+MeAc	3.86987e-05	0.999922	3.86987e-05	0.999924
rad1	2.47387e-05	0.999947	2.47388e-05	0.999949
rad10	2.00467e-05	0.999967	2.00468e-05	0.999969
rad11	1.15893e-05	0.999978	1.15893e-05	0.999980
rad8	6.67075e-06	0.999985	6.67076e-06	0.999987
rad9	5.07398e-06	0.999990	5.07399e-06	0.999992
PAH7+H	2.52835e-06	0.999992	2.52835e-06	0.999994
rad3	2.45881e-06	0.999995	2.45882e-06	0.999997
Phenyl+Allene	2.13852e-06	0.999997	0.00000	0.999997
rad4	1.26006e-06	0.999998	1.26006e-06	0.999998
rad39	4.52308e-07	0.999999	4.52309e-07	0.999999
rad30	3.39536e-07	0.999999	3.39537e-07	0.999999
rad12	3.04007e-07	0.999999	3.04007e-07	0.999999
rad13	2.21281e-07	1.000000	2.21282e-07	1.000000
PAH9+H	7.65539e-08	1.000000	7.65541e-08	1.000000
rad15	7.04477e-08	1.000000	7.04478e-08	1.000000
rad35	3.69372e-08	1.000000	3.69373e-08	1.000000
rad38	2.12057e-08	1.000000	2.12058e-08	1.000000
PhCH2CCH+H	1.26071e-08	1.000000	1.26071e-08	1.000000
rad37	2.37093e-09	1.000000	2.37093e-09	1.000000
rad33	4.22999e-10	1.000000	4.23000e-10	1.000000
rad46	2.48894e-10	1.000000	2.48894e-10	1.000000
rad14	2.39324e-10	1.000000	2.39325e-10	1.000000
rad23	2.19454e-10	1.000000	2.19454e-10	1.000000
rad27	2.14460e-10	1.000000	2.14460e-10	1.000000
rad25	1.48779e-10	1.000000	1.48779e-10	1.000000
rad5	2.50850e-11	1.000000	2.50850e-11	1.000000
rad60syn	2.40791e-11	1.000000	2.40791e-11	1.000000
rad60anti	7.38807e-12	1.000000	7.38809e-12	1.000000
rad45	2.40474e-12	1.000000	2.40475e-12	1.000000
rad36	1.49480e-13	1.000000	1.49480e-13	1.000000
rad22	1.02449e-13	1.000000	1.02449e-13	1.000000
PAH3+H	2.68451e-14	1.000000	2.68452e-14	1.000000
rad59	9.57606e-15	1.000000	9.57608e-15	1.000000
rad31	9.37320e-15	1.000000	9.37322e-15	1.000000
rad20	2.06277e-15	1.000000	2.06278e-15	1.000000
rad21	1.54822e-15	1.000000	1.54822e-15	1.000000
rad50	9.63417e-16	1.000000	9.63420e-16	1.000000

rad19syn	6.37176e-16	1.000000	6.37177e-16	1.000000
rad18	1.88039e-17	1.000000	1.88039e-17	1.000000
rad54	4.13131e-18	1.000000	4.13132e-18	1.000000
PAH10+CH3	2.81043e-18	1.000000	2.81044e-18	1.000000
rad43	6.86166e-19	1.000000	6.86167e-19	1.000000
rad62	8.10902e-20	1.000000	8.10904e-20	1.000000
rad24	3.37242e-20	1.000000	3.37243e-20	1.000000
rad52	2.59863e-20	1.000000	2.59864e-20	1.000000
PhcycC3H3_A+H	6.03548e-22	1.000000	6.03549e-22	1.000000
rad70	5.19494e-22	1.000000	5.19494e-22	1.000000
rad55	2.12510e-22	1.000000	2.12510e-22	1.000000
rad51	8.79314e-23	1.000000	8.79316e-23	1.000000
PAH1+H	3.87953e-24	1.000000	3.87953e-24	1.000000
rad58	3.90318e-25	1.000000	3.90319e-25	1.000000
rad65	2.46898e-25	1.000000	2.46899e-25	1.000000
rad34	1.48313e-25	1.000000	1.48313e-25	1.000000
rad42	1.00698e-27	1.000000	1.00698e-27	1.000000
rad41	2.56000e-28	1.000000	2.56001e-28	1.000000
rad47	1.78947e-33	1.000000	1.78947e-33	1.000000

0.100000000E-01 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.50681e-18 (1.00)	6.50679e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71913e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39011e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.495663	0.495663	0.495664	0.495664
Indene+H	0.485812	0.981476	0.485814	0.981478
Benzene+2-propynyl	0.00747672	0.988952	0.00747674	0.988955
C2H2+PhCH2	0.00605058	0.995003	0.00605060	0.995006
PhCCH+CH3	0.00215380	0.997157	0.00215380	0.997160
PhCHCCH2+H	0.00118892	0.998346	0.00118893	0.998349
PhCCCH3+H	0.000754769	0.999100	0.000754772	0.999103
rad2	0.000344765	0.999445	0.000344766	0.999448
rad28	0.000326215	0.999771	0.000326216	0.999774
rad26	5.57481e-05	0.999827	5.57482e-05	0.999830
Ph+MeAc	5.19558e-05	0.999879	5.19560e-05	0.999882
rad7	4.24111e-05	0.999921	4.24112e-05	0.999924
rad1	2.30809e-05	0.999944	2.30809e-05	0.999947
rad10	1.85610e-05	0.999963	1.85610e-05	0.999966
rad11	1.07577e-05	0.999974	1.07577e-05	0.999977
rad8	8.17372e-06	0.999982	8.17375e-06	0.999985
rad9	6.38186e-06	0.999988	6.38187e-06	0.999991
PAH7+H	3.36956e-06	0.999992	3.36958e-06	0.999995
Phenyl+Allene	3.11709e-06	0.999995	0.00000	0.999995
rad3	2.27724e-06	0.999997	2.27725e-06	0.999997
rad4	1.16914e-06	0.999998	1.16915e-06	0.999998
rad39	6.23279e-07	0.999999	6.23281e-07	0.999999
rad30	3.96450e-07	0.999999	3.96451e-07	0.999999
rad12	3.90906e-07	1.000000	3.90907e-07	1.000000
rad13	2.06819e-07	1.000000	2.06820e-07	1.000000
PAH9+H	9.08347e-08	1.000000	9.08350e-08	1.000000
rad15	8.37569e-08	1.000000	8.37572e-08	1.000000
rad35	4.33227e-08	1.000000	4.33228e-08	1.000000
rad38	2.53976e-08	1.000000	2.53977e-08	1.000000
PhCH2CCH+H	2.36526e-08	1.000000	2.36527e-08	1.000000
rad37	4.01284e-09	1.000000	4.01285e-09	1.000000
rad33	3.96050e-10	1.000000	3.96051e-10	1.000000
rad46	3.18424e-10	1.000000	3.18425e-10	1.000000
rad14	2.23059e-10	1.000000	2.23060e-10	1.000000
rad27	1.99583e-10	1.000000	1.99583e-10	1.000000
rad23	1.82849e-10	1.000000	1.82850e-10	1.000000
rad25	1.39145e-10	1.000000	1.39146e-10	1.000000
rad5	5.01974e-11	1.000000	5.01975e-11	1.000000
rad60syn	3.38678e-11	1.000000	3.38679e-11	1.000000
rad60anti	1.07547e-11	1.000000	1.07547e-11	1.000000
rad45	1.99482e-12	1.000000	1.99483e-12	1.000000
rad36	1.24180e-13	1.000000	1.24180e-13	1.000000
rad22	8.52808e-14	1.000000	8.52811e-14	1.000000
PAH3+H	6.15223e-14	1.000000	6.15224e-14	1.000000
rad59	2.12373e-14	1.000000	2.12373e-14	1.000000
rad31	9.09736e-15	1.000000	9.09738e-15	1.000000
rad19syn	2.62925e-15	1.000000	2.62926e-15	1.000000
rad50	2.17186e-15	1.000000	2.17187e-15	1.000000
rad20	2.05769e-15	1.000000	2.05769e-15	1.000000

rad21	1.54924e-15	1.00000	1.54924e-15	1.00000
rad54	2.19357e-17	1.00000	2.19357e-17	1.00000
rad18	1.81796e-17	1.00000	1.81797e-17	1.00000
PAH10+CH3	1.49652e-17	1.00000	1.49653e-17	1.00000
rad43	3.64955e-18	1.00000	3.64956e-18	1.00000
rad62	5.02921e-19	1.00000	5.02923e-19	1.00000
rad52	1.04630e-19	1.00000	1.04630e-19	1.00000
rad24	2.83899e-20	1.00000	2.83900e-20	1.00000
PhcycC3H3_A+H	5.72268e-21	1.00000	5.72270e-21	1.00000
rad70	4.61182e-21	1.00000	4.61184e-21	1.00000
rad55	1.92795e-21	1.00000	1.92796e-21	1.00000
rad51	5.61078e-22	1.00000	5.61080e-22	1.00000
PAH1+H	4.87439e-23	1.00000	4.87440e-23	1.00000
rad58	3.82598e-24	1.00000	3.82599e-24	1.00000
rad34	2.01450e-24	1.00000	2.01451e-24	1.00000
rad65	2.00658e-24	1.00000	2.00658e-24	1.00000
rad42	1.67242e-26	1.00000	1.67243e-26	1.00000
rad41	4.39260e-27	1.00000	4.39261e-27	1.00000
rad47	1.69876e-32	1.00000	1.69877e-32	1.00000

0.100000000E-01 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.11858e-17 (1.00)	1.11858e-17 (1.00)
Formation of rad11	9.67466e-18 (0.865)	9.67461e-18 (0.865)
Formation of rad6	1.40029e-18 (0.125)	1.40029e-18 (0.125)
H-abstraction	1.10851e-19 (0.00991)	1.10851e-19 (0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.518605	0.518605	0.518607	0.518607
rad6	0.458881	0.977486	0.458883	0.977490
Benzene+2-propynyl	0.00990995	0.987396	0.00991000	0.987400
C2H2+PhCH2	0.00686783	0.994264	0.00686786	0.994268
PhCCH+CH3	0.00257092	0.996835	0.00257093	0.996839
PhCHCCH2+H	0.00140147	0.998236	0.00140148	0.998240
PhCCCH3+H	0.000894473	0.999131	0.000894477	0.999135
rad2	0.000317698	0.999449	0.000317700	0.999453
rad28	0.000311027	0.999760	0.000311028	0.999764
Ph+MeAc	6.87670e-05	0.999828	6.87673e-05	0.999832
rad26	5.19237e-05	0.999880	5.19239e-05	0.999884
rad7	3.91540e-05	0.999919	3.91542e-05	0.999923
rad1	2.14217e-05	0.999941	2.14218e-05	0.999945
rad10	1.70890e-05	0.999958	1.70891e-05	0.999962
rad11	9.92793e-06	0.999968	9.92803e-06	0.999972
rad8	9.92466e-06	0.999978	9.92476e-06	0.999982
rad9	7.97493e-06	0.999986	7.97496e-06	0.999990
Phenyl+Allene	4.47113e-06	0.999990	0.00000	0.999990
PAH7+H	4.42606e-06	0.999995	4.42608e-06	0.999999
rad3	2.09727e-06	0.999997	2.09728e-06	0.999996
rad4	1.07891e-06	0.999998	1.07891e-06	0.999997
rad39	8.44352e-07	0.999999	8.44356e-07	0.999998
rad12	4.95941e-07	0.999999	4.95943e-07	0.999999
rad30	4.61447e-07	1.000000	4.61449e-07	0.999999
rad13	1.92134e-07	1.000000	1.92135e-07	0.999999
PAH9+H	1.07533e-07	1.000000	1.07533e-07	0.999999
rad15	9.92734e-08	1.000000	9.92734e-08	1.000000
rad35	5.06828e-08	1.000000	5.06830e-08	1.000000
PhCH2CCH+H	4.23972e-08	1.000000	4.23974e-08	1.000000
rad38	3.03504e-08	1.000000	3.03506e-08	1.000000
rad37	6.45971e-09	1.000000	6.45974e-09	1.000000
rad46	4.06339e-10	1.000000	4.06341e-10	1.000000
rad33	3.68606e-10	1.000000	3.68607e-10	1.000000
rad14	2.06696e-10	1.000000	2.06697e-10	1.000000
rad27	1.84691e-10	1.000000	1.84692e-10	1.000000
rad23	1.52982e-10	1.000000	1.52983e-10	1.000000
rad25	1.29352e-10	1.000000	1.29353e-10	1.000000
rad5	9.46732e-11	1.000000	9.46736e-11	1.000000
rad60syn	4.71377e-11	1.000000	4.71379e-11	1.000000
rad60anti	1.54304e-11	1.000000	1.54305e-11	1.000000
rad45	1.66264e-12	1.000000	1.66265e-12	1.000000
PAH3+H	1.31771e-13	1.000000	1.31772e-13	1.000000
rad36	1.03685e-13	1.000000	1.03686e-13	1.000000
rad22	7.13152e-14	1.000000	7.13155e-14	1.000000
rad59	4.41006e-14	1.000000	4.41008e-14	1.000000
rad19syn	9.41327e-15	1.000000	9.41331e-15	1.000000
rad31	8.81840e-15	1.000000	8.81843e-15	1.000000
rad50	4.61472e-15	1.000000	4.61474e-15	1.000000
rad20	2.04509e-15	1.000000	2.04510e-15	1.000000

rad21	1.54480e-15	1.00000	1.54481e-15	1.000000
rad54	9.82738e-17	1.00000	9.82743e-17	1.000000
PAH10+CH3	6.71435e-17	1.00000	6.71437e-17	1.000000
rad18	1.75429e-17	1.00000	1.75429e-17	1.000000
rad43	1.63333e-17	1.00000	1.63334e-17	1.000000
rad62	2.58224e-18	1.00000	2.58225e-18	1.000000
rad52	3.68905e-19	1.00000	3.68906e-19	1.000000
PhcycC3H3_A+H	4.29611e-20	1.00000	4.29613e-20	1.000000
rad70	3.25597e-20	1.00000	3.25599e-20	1.000000
rad24	2.40193e-20	1.00000	2.40194e-20	1.000000
rad55	1.38857e-20	1.00000	1.38858e-20	1.000000
rad51	2.98187e-21	1.00000	2.98189e-21	1.000000
PAH1+H	4.66293e-22	1.00000	4.66295e-22	1.000000
rad58	2.96192e-23	1.00000	2.96194e-23	1.000000
rad34	2.06128e-23	1.00000	2.06128e-23	1.000000
rad65	1.31786e-23	1.00000	1.31787e-23	1.000000
rad42	2.01949e-25	1.00000	2.01950e-25	1.000000
rad41	5.43942e-26	1.00000	5.43944e-26	1.000000
rad47	1.24641e-31	1.00000	1.24642e-31	1.000000

0.100000000E-01 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.82690e-17 (1.00)	1.82689e-17 (1.00)
Formation of rad11	1.55456e-17 (0.851)	1.55455e-17 (0.851)
Formation of rad6	2.49126e-18 (0.136)	2.49125e-18 (0.136)
H-abstraction	2.32112e-19 (0.0127)	2.32112e-19 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.550799	0.550799	0.550802	0.550802
rad6	0.422153	0.972952	0.422156	0.972958
Benzene+2-propynyl	0.0127053	0.985658	0.0127053	0.985663
C2H2+PhCH2	0.00776510	0.993423	0.00776515	0.993429
PhCCH+CH3	0.00304451	0.996467	0.00304453	0.996473
PhCHCCH2+H	0.00163937	0.998107	0.00163938	0.998113
PhCCCH3+H	0.00105114	0.999158	0.00105114	0.999164
rad28	0.000293558	0.999451	0.000293560	0.999457
rad2	0.000291027	0.999742	0.000291029	0.999748
Ph+MeAc	8.97539e-05	0.999832	8.97544e-05	0.999838
rad26	4.79964e-05	0.999880	4.79967e-05	0.999886
rad7	3.59298e-05	0.999916	3.59300e-05	0.999922
rad1	1.97764e-05	0.999936	1.97765e-05	0.999942
rad10	1.56433e-05	0.999951	1.56434e-05	0.999957
rad8	1.19403e-05	0.999963	1.19404e-05	0.999969
rad9	9.89546e-06	0.999973	9.89546e-06	0.999979
rad11	9.10803e-06	0.999982	9.10809e-06	0.999988
Phenyl+Allene	6.31492e-06	0.999989	0.00000	0.999988
PAH7+H	5.73495e-06	0.999994	5.73499e-06	0.999994
rad3	1.92046e-06	0.999996	1.92047e-06	0.999996
rad39	1.12571e-06	0.999997	1.12572e-06	0.999997
rad4	9.90109e-07	0.999998	9.90118e-07	0.999998
rad12	6.21094e-07	0.999999	6.21098e-07	0.999999
rad30	5.35141e-07	1.000000	5.35144e-07	0.999999
rad13	1.77394e-07	1.000000	1.77395e-07	0.999999
PAH9+H	1.26937e-07	1.000000	1.26938e-07	1.000000
rad15	1.17230e-07	1.000000	1.17230e-07	1.000000
PhCH2CCH+H	7.30272e-08	1.000000	7.30277e-08	1.000000
rad35	5.91129e-08	1.000000	5.91133e-08	1.000000
rad38	3.61671e-08	1.000000	3.61673e-08	1.000000
rad37	9.96338e-09	1.000000	9.96338e-09	1.000000
rad46	5.16759e-10	1.000000	5.16762e-10	1.000000
rad33	3.40983e-10	1.000000	3.40986e-10	1.000000
rad14	1.90404e-10	1.000000	1.90405e-10	1.000000
rad27	1.69929e-10	1.000000	1.69930e-10	1.000000
rad5	1.69607e-10	1.000000	1.69608e-10	1.000000
rad23	1.28437e-10	1.000000	1.28437e-10	1.000000
rad25	1.19513e-10	1.000000	1.19514e-10	1.000000
rad60syn	6.49078e-11	1.000000	6.49082e-11	1.000000
rad60anti	2.18328e-11	1.000000	2.18329e-11	1.000000
rad45	1.39136e-12	1.000000	1.39137e-12	1.000000
PAH3+H	2.66447e-13	1.000000	2.66449e-13	1.000000
rad36	8.69553e-14	1.000000	8.69559e-14	1.000000
rad59	8.66040e-14	1.000000	8.66045e-14	1.000000
rad22	5.98618e-14	1.000000	5.98621e-14	1.000000
rad19syn	2.98779e-14	1.000000	2.98781e-14	1.000000
rad50	9.32052e-15	1.000000	9.32058e-15	1.000000
rad31	8.54013e-15	1.000000	8.54019e-15	1.000000
rad20	2.02496e-15	1.000000	2.02497e-15	1.000000

rad21	1.53484e-15	1.00000	1.53485e-15	1.000000
rad54	3.81273e-16	1.00000	3.81276e-16	1.000000
PAH10+CH3	2.60468e-16	1.00000	2.60469e-16	1.000000
rad43	6.31208e-17	1.00000	6.31212e-17	1.000000
rad18	1.68891e-17	1.00000	1.68892e-17	1.000000
rad62	1.12935e-17	1.00000	1.12936e-17	1.000000
rad52	1.16294e-18	1.00000	1.16295e-18	1.000000
PhcycC3H3_A+H	2.64396e-19	1.00000	2.64397e-19	1.000000
rad70	1.89246e-19	1.00000	1.89247e-19	1.000000
rad55	8.22149e-20	1.00000	8.22154e-20	1.000000
rad24	2.04114e-20	1.00000	2.04116e-20	1.000000
rad51	1.35750e-20	1.00000	1.35751e-20	1.000000
PAH1+H	3.53750e-21	1.00000	3.53753e-21	1.000000
rad58	1.87546e-22	1.00000	1.87546e-22	1.000000
rad34	1.65820e-22	1.00000	1.65821e-22	1.000000
rad65	7.22466e-23	1.00000	7.22471e-23	1.000000
rad42	1.87093e-24	1.00000	1.87094e-24	1.000000
rad41	5.14843e-25	1.00000	5.14846e-25	1.000000
rad47	7.35121e-31	1.00000	7.35126e-31	1.000000

0.100000000E-01 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.85520e-17 (1.00)	2.85518e-17 (1.00)
Formation of rad11	2.39009e-17 (0.837)	2.39007e-17 (0.837)
Formation of rad6	4.19900e-18 (0.147)	4.19896e-18 (0.147)
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.581994	0.581994	0.582000	0.582000
rad6	0.385902	0.967896	0.385906	0.967906
Benzene+2-propynyl	0.0158346	0.983731	0.0158348	0.983741
C2H2+PhCH2	0.00874301	0.992474	0.00874309	0.992484
PhCCH+CH3	0.00357664	0.996050	0.00357668	0.996060
PhCHCCH2+H	0.00190294	0.997953	0.00190296	0.997963
PhCCCH3+H	0.00122487	0.999178	0.00122488	0.999188
rad28	0.000274411	0.999453	0.000274414	0.999463
rad2	0.000265002	0.999718	0.000265005	0.999728
Ph+MeAc	0.000115565	0.999833	0.000115566	0.999843
rad26	4.40405e-05	0.999877	4.40409e-05	0.999887
rad7	3.27706e-05	0.999910	3.27709e-05	0.999920
rad1	1.81604e-05	0.999928	1.81605e-05	0.999938
rad10	1.42367e-05	0.999942	1.42368e-05	0.999952
rad8	1.42339e-05	0.999957	1.42340e-05	0.999967
rad9	1.21876e-05	0.999969	1.21877e-05	0.999979
Phenyl+Allene	8.78808e-06	0.999978	0.000000	0.999979
rad11	8.30570e-06	0.999986	8.30576e-06	0.999987
PAH7+H	7.33630e-06	0.999993	7.33637e-06	0.999994
rad3	1.74836e-06	0.999995	1.74837e-06	0.999996
rad39	1.47864e-06	0.999996	1.47866e-06	0.999998
rad4	9.03533e-07	0.999997	9.03541e-07	0.999999
rad12	7.68200e-07	0.999998	7.68207e-07	0.999999
rad30	6.18111e-07	0.999999	6.18116e-07	1.000000
rad13	1.62772e-07	0.999999	1.62773e-07	1.000000
PAH9+H	1.49361e-07	0.999999	1.49362e-07	1.000000
rad15	1.37867e-07	0.999999	1.37868e-07	1.000000
PhCH2CCH+H	1.21449e-07	0.999999	1.21450e-07	1.000000
rad35	6.87109e-08	0.999999	6.87115e-08	1.000000
rad38	4.29585e-08	0.999999	4.29589e-08	1.000000
rad37	1.48126e-08	0.999999	1.48128e-08	1.000000
rad46	6.54549e-10	0.999999	6.54554e-10	1.000000
rad33	3.13509e-10	0.999999	3.13512e-10	1.000000
rad5	2.90487e-10	0.999999	2.90490e-10	1.000000
rad14	1.74350e-10	0.999999	1.74352e-10	1.000000
rad27	1.55439e-10	0.999999	1.55440e-10	1.000000
rad25	1.09742e-10	0.999999	1.09743e-10	1.000000
rad23	1.08159e-10	0.999999	1.08160e-10	1.000000
rad60syn	8.84280e-11	0.999999	8.84288e-11	1.000000
rad60anti	3.04831e-11	0.999999	3.04834e-11	1.000000
rad45	1.16853e-12	0.999999	1.16854e-12	1.000000
PAH3+H	5.12783e-13	0.999999	5.12787e-13	1.000000
rad59	1.62125e-13	0.999999	1.62126e-13	1.000000
rad19syn	8.55578e-14	0.999999	8.55585e-14	1.000000
rad36	7.32164e-14	0.999999	7.32171e-14	1.000000
rad22	5.04102e-14	0.999999	5.04106e-14	1.000000
rad50	1.80178e-14	0.999999	1.80180e-14	1.000000
rad31	8.26696e-15	0.999999	8.26703e-15	1.000000
rad20	1.99749e-15	0.999999	1.99750e-15	1.000000

rad21	1.51946e-15	0.999999	1.51948e-15	1.00000
rad54	1.30817e-15	0.999999	1.30819e-15	1.00000
PAH10+CH3	8.92066e-16	0.999999	8.92074e-16	1.00000
rad43	2.15088e-16	0.999999	2.15090e-16	1.00000
rad62	4.30501e-17	0.999999	4.30505e-17	1.00000
rad18	1.62168e-17	0.999999	1.62169e-17	1.00000
rad52	3.33340e-18	0.999999	3.33343e-18	1.00000
PhcycC3H3_A+H	1.37156e-18	0.999999	1.37157e-18	1.00000
rad70	9.30992e-19	0.999999	9.31000e-19	1.00000
rad55	4.11483e-19	0.999999	4.11485e-19	1.00000
rad51	5.41415e-20	0.999999	5.41420e-20	1.00000
PAH1+H	2.19817e-20	0.999999	2.19819e-20	1.00000
rad24	1.74176e-20	0.999999	1.74177e-20	1.00000
rad34	1.08434e-21	0.999999	1.08435e-21	1.00000
rad58	9.98761e-22	0.999999	9.98770e-22	1.00000
rad65	3.39232e-22	0.999999	3.39236e-22	1.00000
rad42	1.38039e-23	0.999999	1.38040e-23	1.00000
rad41	3.86907e-24	0.999999	3.86911e-24	1.00000
rad47	3.59775e-30	0.999999	3.59778e-30	1.00000

0.100000000E-01 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.29529e-17 (1.00)	4.29523e-17 (1.00)
Formation of rad11	3.53712e-17 (0.823)	3.53707e-17 (0.823)
Formation of rad6	6.75433e-18 (0.157)	6.75425e-18 (0.157)
H-abstraction	8.27372e-19 (0.0193)	8.27372e-19 (0.0193)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.611822	0.611822	0.611830	0.611830
rad6	0.350530	0.962353	0.350534	0.962364
Benzene+2-propynyl	0.0192623	0.981615	0.0192625	0.981627
C2H2+PhCH2	0.00980142	0.991417	0.00980155	0.991428
PhCCH+CH3	0.00416861	0.995585	0.00416865	0.995597
PhCHCCH2+H	0.00219211	0.997777	0.00219212	0.997789
PhCCCH3+H	0.00141546	0.999193	0.00141547	0.999205
rad28	0.000254166	0.999447	0.000254169	0.999459
rad2	0.000239865	0.999687	0.000239868	0.999699
Ph+MeAc	0.000146862	0.999834	0.000146863	0.999846
rad26	4.01227e-05	0.999874	4.01231e-05	0.999886
rad7	2.97069e-05	0.999903	2.97073e-05	0.999915
rad8	1.68146e-05	0.999920	1.68148e-05	0.999932
rad1	1.65886e-05	0.999937	1.65888e-05	0.999949
rad9	1.48976e-05	0.999952	1.48978e-05	0.999964
rad10	1.28812e-05	0.999965	1.28814e-05	0.999977
Phenyl+Allene	1.20591e-05	0.999977	0.00000	0.999977
PAH7+H	9.27315e-06	0.999986	9.27326e-06	0.999986
rad11	7.52845e-06	0.999993	7.52854e-06	0.999993
rad39	1.91549e-06	0.999995	1.91552e-06	0.999995
rad3	1.58244e-06	0.999997	1.58246e-06	0.999997
rad12	9.38889e-07	0.999998	9.38900e-07	0.999998
rad4	8.19915e-07	0.999999	8.19925e-07	0.999999
rad30	7.10909e-07	0.999999	7.10918e-07	0.999999
PhCH2CCH+H	1.95794e-07	1.000000	1.95797e-07	1.000000
PAH9+H	1.75130e-07	1.000000	1.75132e-07	1.000000
rad15	1.61424e-07	1.000000	1.61425e-07	1.000000
rad13	1.48433e-07	1.00000	1.48435e-07	1.00000
rad35	7.95779e-08	1.00000	7.95789e-08	1.00000
rad38	5.08454e-08	1.00000	5.08460e-08	1.00000
rad37	2.13317e-08	1.00000	2.13320e-08	1.00000
rad46	8.25425e-10	1.00000	8.25435e-10	1.00000
rad5	4.78197e-10	1.00000	4.78203e-10	1.00000
rad33	2.86499e-10	1.00000	2.86502e-10	1.00000
rad14	1.58699e-10	1.00000	1.58701e-10	1.00000
rad27	1.41361e-10	1.00000	1.41363e-10	1.00000
rad60syn	1.19217e-10	1.00000	1.19217e-10	1.00000
rad25	1.00151e-10	1.00000	1.00153e-10	1.00000
rad23	9.13476e-11	1.00000	9.13486e-11	1.00000
rad60anti	4.20250e-11	1.00000	4.20255e-11	1.00000
rad45	9.84778e-13	1.00000	9.84798e-13	1.00000
PAH3+H	9.45485e-13	1.00000	9.45497e-13	1.00000
rad59	2.91201e-13	1.00000	2.91204e-13	1.00000
rad19syn	2.24222e-13	1.00000	2.24225e-13	1.00000
rad36	6.18882e-14	1.00000	6.18889e-14	1.00000
rad22	4.25758e-14	1.00000	4.25763e-14	1.00000
rad50	3.35249e-14	1.00000	3.35253e-14	1.00000
rad31	8.00373e-15	1.00000	8.00383e-15	1.00000
rad54	4.03781e-15	1.00000	4.03786e-15	1.00000

PAH10+CH3	2.74356e-15	1.00000	2.74359e-15	1.00000
rad20	1.96310e-15	1.00000	1.96312e-15	1.00000
rad21	1.49895e-15	1.00000	1.49897e-15	1.00000
rad43	6.57401e-16	1.00000	6.57409e-16	1.00000
rad62	1.45738e-16	1.00000	1.45740e-16	1.00000
rad18	1.55268e-17	1.00000	1.55270e-17	1.00000
rad52	8.80655e-18	1.00000	8.80666e-18	1.00000
PhcycC3H3_A+H	6.13330e-18	1.00000	6.13338e-18	1.00000
rad70	3.96430e-18	1.00000	3.96435e-18	1.00000
rad55	1.78040e-18	1.00000	1.78043e-18	1.00000
rad51	1.92612e-19	1.00000	1.92615e-19	1.00000
PAH1+H	1.14845e-19	1.00000	1.14847e-19	1.00000
rad24	1.49249e-20	1.00000	1.49250e-20	1.00000
rad34	5.92223e-21	1.00000	5.92231e-21	1.00000
rad58	4.57506e-21	1.00000	4.57512e-21	1.00000
rad65	1.39277e-21	1.00000	1.39278e-21	1.00000
rad42	8.35891e-23	1.00000	8.35901e-23	1.00000
rad41	2.38029e-23	1.00000	2.38032e-23	1.00000
rad47	1.49964e-29	1.00000	1.49966e-29	1.00000

0.100000000E-01 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.25016e-17 (1.00)	6.25006e-17 (1.00)
Formation of rad11	5.06355e-17 (0.810)	5.06347e-17 (0.810)
Formation of rad6	1.04318e-17 (0.167)	1.04317e-17 (0.167)
H-abstraction	1.43428e-18 (0.0229)	1.43428e-18 (0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.639958	0.639958	0.639969	0.639969
rad6	0.316402	0.956360	0.316407	0.956375
Benzene+2-propynyl	0.0229478	0.979308	0.0229482	0.979324
C2H2+PhCH2	0.0109397	0.990248	0.0109399	0.990263
PhCCH+CH3	0.00482088	0.995069	0.00482096	0.995084
PhCHCCH2+H	0.00250640	0.997575	0.00250644	0.997591
PhCCCH3+H	0.00162237	0.999197	0.00162238	0.999213
rad28	0.000233366	0.999431	0.000233370	0.999447
rad2	0.000215828	0.999646	0.000215832	0.999662
Ph+MeAc	0.000184306	0.999831	0.000184309	0.999847
rad26	3.63009e-05	0.999867	3.63016e-05	0.999883
rad7	2.67666e-05	0.999894	2.67671e-05	0.999910
rad8	1.96878e-05	0.999914	1.96881e-05	0.999930
rad9	1.80732e-05	0.999932	1.80735e-05	0.999948
Phenyl+Allene	1.63293e-05	0.999948	0.00000	0.999948
rad1	1.50744e-05	0.999963	1.50747e-05	0.999963
PAH7+H	1.15916e-05	0.999975	1.15917e-05	0.999974
rad10	1.15875e-05	0.999986	1.15877e-05	0.999986
rad11	6.78310e-06	0.999993	6.78321e-06	0.999993
rad39	2.44970e-06	0.999995	2.44975e-06	0.999995
rad3	1.42402e-06	0.999997	1.42405e-06	0.999997
rad12	1.13454e-06	0.999998	1.13456e-06	0.999998
rad30	8.14068e-07	0.999999	8.14082e-07	0.999998
rad4	7.39922e-07	1.000000	7.39934e-07	0.999999
PhCH2CCH+H	3.07028e-07	1.000000	3.07033e-07	1.000000
PAH9+H	2.04603e-07	1.000000	2.04606e-07	1.000000
rad15	1.88149e-07	1.000000	1.88152e-07	1.000000
rad13	1.34530e-07	1.000000	1.34532e-07	1.000000
rad35	9.18198e-08	1.000000	9.18213e-08	1.000000
rad38	5.99590e-08	1.000000	5.99600e-08	1.000000
rad37	2.98780e-08	1.000000	2.98784e-08	1.000000
rad46	1.03610e-09	1.000000	1.03611e-09	1.000000
rad5	7.60033e-10	1.000000	7.60046e-10	1.000000
rad33	2.60244e-10	1.000000	2.60248e-10	1.000000
rad60syn	1.59102e-10	1.000000	1.59105e-10	1.000000
rad14	1.43599e-10	1.000000	1.43601e-10	1.000000
rad27	1.27819e-10	1.000000	1.27821e-10	1.000000
rad25	9.08427e-11	1.000000	9.08442e-11	1.000000
rad23	7.73856e-11	1.000000	7.73868e-11	1.000000
rad60anti	5.72461e-11	1.000000	5.72470e-11	1.000000
PAH3+H	1.67929e-12	1.000000	1.67932e-12	1.000000
rad45	8.32912e-13	1.000000	8.32925e-13	1.000000
rad19syn	5.44151e-13	1.000000	5.44160e-13	1.000000
rad59	5.04499e-13	1.000000	5.04508e-13	1.000000
rad50	6.03174e-14	1.000000	6.03185e-14	1.000000
rad36	5.25255e-14	1.000000	5.25264e-14	1.000000
rad22	3.60633e-14	1.000000	3.60639e-14	1.000000
rad54	1.13698e-14	1.000000	1.13700e-14	1.000000
rad31	7.75564e-15	1.000000	7.75577e-15	1.000000

PAH10+CH3	7.68361e-15	1.00000	7.68374e-15	1.00000
rad20	1.92239e-15	1.00000	1.92242e-15	1.00000
rad43	1.82774e-15	1.00000	1.82777e-15	1.00000
rad21	1.47369e-15	1.00000	1.47372e-15	1.00000
rad62	4.44916e-16	1.00000	4.44923e-16	1.00000
PhcycC3H3_A+H	2.40774e-17	1.00000	2.40778e-17	1.00000
rad52	2.16830e-17	1.00000	2.16834e-17	1.00000
rad70	1.48797e-17	1.00000	1.48799e-17	1.00000
rad18	1.48224e-17	1.00000	1.48226e-17	1.00000
rad55	6.78211e-18	1.00000	6.78221e-18	1.00000
rad51	6.20132e-19	1.00000	6.20142e-19	1.00000
PAH1+H	5.15440e-19	1.00000	5.15449e-19	1.00000
rad34	2.76238e-20	1.00000	2.76242e-20	1.00000
rad58	1.83595e-20	1.00000	1.83598e-20	1.00000
rad24	1.28465e-20	1.00000	1.28467e-20	1.00000
rad65	5.08362e-21	1.00000	5.08370e-21	1.00000
rad42	4.25938e-22	1.00000	4.25946e-22	1.00000
rad41	1.22962e-22	1.00000	1.22964e-22	1.00000
rad47	5.43965e-29	1.00000	5.43974e-29	1.00000

0.100000000E-01 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83254e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04062e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55478e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.666131	0.666131	0.666145	0.666145
rad6	0.283831	0.949963	0.283837	0.949982
Benzene+2-propynyl	0.0268483	0.976811	0.0268488	0.976831
C2H2+PhCH2	0.0121567	0.988967	0.0121570	0.988988
PhCCH+CH3	0.00553323	0.994501	0.00553336	0.994522
PhCHCCH2+H	0.00284506	0.997346	0.00284511	0.997367
PhCCCH3+H	0.00184478	0.999191	0.00184482	0.999212
Ph+MeAc	0.000228547	0.999419	0.000228551	0.999440
rad28	0.000212497	0.999632	0.000212502	0.999653
rad2	0.000193069	0.999825	0.000193074	0.999846
rad26	3.26240e-05	0.999857	3.26247e-05	0.999878
rad7	2.39733e-05	0.999881	2.39739e-05	0.999902
rad8	2.28542e-05	0.999904	2.28547e-05	0.999925
Phenyl+Allene	2.18370e-05	0.999926	0.00000	0.999925
rad9	2.17638e-05	0.999948	2.17642e-05	0.999947
PAH7+H	1.43406e-05	0.999962	1.43408e-05	0.999961
rad1	1.36298e-05	0.999976	1.36301e-05	0.999975
rad10	1.03646e-05	0.999986	1.03648e-05	0.999985
rad11	6.07545e-06	0.999992	6.07559e-06	0.999991
rad39	3.09586e-06	0.999995	3.09593e-06	0.999994
rad12	1.35626e-06	0.999997	1.35629e-06	0.999996
rad3	1.27423e-06	0.999998	1.27424e-06	0.999997
rad30	9.28108e-07	0.999999	9.28129e-07	0.999998
rad4	6.64117e-07	0.999999	6.64131e-07	0.999999
PhCH2CCH+H	4.69651e-07	1.000000	4.69661e-07	0.999999
PAH9+H	2.38163e-07	1.00000	2.38168e-07	0.999999
rad15	2.18296e-07	1.00000	2.18301e-07	1.000000
rad13	1.21196e-07	1.00000	1.21199e-07	1.000000
rad35	1.05549e-07	1.00000	1.05551e-07	1.000000
rad38	7.04433e-08	1.00000	7.04449e-08	1.000000
rad37	4.08378e-08	1.00000	4.08388e-08	1.000000
rad46	1.29444e-09	1.00000	1.29446e-09	1.000000
rad5	1.17073e-09	1.00000	1.17076e-09	1.000000
rad33	2.35003e-10	1.00000	2.35008e-10	1.000000
rad60syn	2.10275e-10	1.00000	2.10279e-10	1.000000
rad14	1.29182e-10	1.00000	1.29185e-10	1.000000
rad27	1.14923e-10	1.00000	1.14926e-10	1.000000
rad25	8.19072e-11	1.00000	8.19090e-11	1.000000
rad60anti	7.71029e-11	1.00000	7.71045e-11	1.000000
rad23	6.57871e-11	1.00000	6.57886e-11	1.000000
PAH3+H	2.88587e-12	1.00000	2.88594e-12	1.000000
rad19syn	1.23482e-12	1.00000	1.23485e-12	1.000000
rad59	8.46723e-13	1.00000	8.46742e-13	1.000000
rad45	7.07314e-13	1.00000	7.07330e-13	1.000000
rad50	1.05338e-13	1.00000	1.05340e-13	1.000000
rad36	4.47823e-14	1.00000	4.47833e-14	1.000000
rad22	3.06425e-14	1.00000	3.06432e-14	1.000000
rad54	2.95429e-14	1.00000	2.95436e-14	1.000000
PAH10+CH3	1.98218e-14	1.00000	1.98222e-14	1.000000

rad31	7.52814e-15	1.00000	7.52830e-15	1.000000
rad43	4.67656e-15	1.00000	4.67666e-15	1.000000
rad20	1.87609e-15	1.00000	1.87614e-15	1.000000
rad21	1.44421e-15	1.00000	1.44424e-15	1.000000
rad62	1.24046e-15	1.00000	1.24049e-15	1.000000
PhcycC3H3_A+H	8.42280e-17	1.00000	8.42298e-17	1.000000
rad52	5.02029e-17	1.00000	5.02040e-17	1.000000
rad70	4.99691e-17	1.00000	4.99702e-17	1.000000
rad55	2.30866e-17	1.00000	2.30870e-17	1.000000
rad18	1.41074e-17	1.00000	1.41077e-17	1.000000
PAH1+H	2.02306e-18	1.00000	2.02310e-18	1.000000
rad51	1.82801e-18	1.00000	1.82805e-18	1.000000
rad34	1.12111e-19	1.00000	1.12113e-19	1.000000
rad58	6.55210e-20	1.00000	6.55225e-20	1.000000
rad65	1.67196e-20	1.00000	1.67200e-20	1.000000
rad24	1.11148e-20	1.00000	1.11149e-20	1.000000
rad42	1.86499e-21	1.00000	1.86502e-21	1.000000
rad41	5.44826e-22	1.00000	5.44838e-22	1.000000
rad47	1.74816e-28	1.00000	1.74820e-28	1.000000

0.100000000E-01 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.21641e-16 (1.00)	1.21638e-16 (1.00)
Formation of rad11	9.54219e-17 (0.784)	9.54190e-17 (0.784)
Formation of rad6	2.24583e-17 (0.185)	2.24576e-17 (0.185)
H-abstraction	3.76121e-18 (0.0309)	3.76121e-18 (0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.690131	0.690131	0.690151	0.690151
rad6	0.253074	0.943205	0.253082	0.943232
Benzene+2-propynyl	0.0309205	0.974126	0.0309214	0.974154
C2H2+PhCH2	0.0134512	0.987577	0.0134517	0.987605
PhCCH+CH3	0.00630475	0.993882	0.00630494	0.993910
PhCHCCH2+H	0.00320699	0.997089	0.00320709	0.997117
PhCCCH3+H	0.00208166	0.999170	0.00208173	0.999199
Ph+MeAc	0.000280206	0.999450	0.000280215	0.999479
rad28	0.000191976	0.999642	0.000191981	0.999671
rad2	0.000171730	0.999814	0.000171735	0.999843
rad26	2.91308e-05	0.999843	2.91317e-05	0.999872
Phenyl+Allene	2.88624e-05	0.999872	0.000000	0.999872
rad8	2.63109e-05	0.999898	2.63116e-05	0.999899
rad9	2.60202e-05	0.999924	2.60209e-05	0.999925
rad7	2.13458e-05	0.999946	2.13464e-05	0.999946
PAH7+H	1.75728e-05	0.999963	1.75734e-05	0.999963
rad1	1.22639e-05	0.999976	1.22643e-05	0.999976
rad10	9.21940e-06	0.999985	9.21966e-06	0.999985
rad11	5.41014e-06	0.999990	5.41029e-06	0.999990
rad39	3.86967e-06	0.999994	3.86978e-06	0.999994
rad12	1.60484e-06	0.999996	1.60489e-06	0.999996
rad3	1.13388e-06	0.999997	1.13392e-06	0.999997
rad30	1.05355e-06	0.999998	1.05358e-06	0.999998
PhCH2CCH+H	7.02536e-07	0.999999	7.02556e-07	0.999999
rad4	5.92941e-07	0.999999	5.92958e-07	0.999999
PAH9+H	2.76230e-07	0.999999	2.76239e-07	1.000000
rad15	2.52127e-07	1.000000	2.52135e-07	1.000000
rad35	1.20884e-07	1.000000	1.20888e-07	1.000000
rad13	1.08545e-07	1.000000	1.08547e-07	1.000000
rad38	8.24571e-08	1.000000	8.24596e-08	1.000000
rad37	5.46241e-08	1.000000	5.46256e-08	1.000000
rad5	1.75342e-09	1.000000	1.75348e-09	1.000000
rad46	1.60962e-09	1.000000	1.60967e-09	1.000000
rad60syn	2.75334e-10	1.000000	2.75342e-10	1.000000
rad33	2.10992e-10	1.000000	2.10998e-10	1.000000
rad14	1.15553e-10	1.000000	1.15557e-10	1.000000
rad27	1.02762e-10	1.000000	1.02765e-10	1.000000
rad60anti	1.02748e-10	1.000000	1.02750e-10	1.000000
rad25	7.34199e-11	1.000000	7.34220e-11	1.000000
rad23	5.61663e-11	1.000000	5.61680e-11	1.000000
PAH3+H	4.81627e-12	1.000000	4.81640e-12	1.000000
rad19syn	2.64141e-12	1.000000	2.64149e-12	1.000000
rad59	1.38164e-12	1.000000	1.38167e-12	1.000000
rad45	6.03565e-13	1.000000	6.03582e-13	1.000000
rad50	1.79126e-13	1.000000	1.79131e-13	1.000000
rad54	7.15061e-14	1.000000	7.15081e-14	1.000000
PAH10+CH3	4.75535e-14	1.000000	4.75549e-14	1.000000
rad36	3.83859e-14	1.000000	3.83870e-14	1.000000
rad22	2.61309e-14	1.000000	2.61317e-14	1.000000

rad43	1.11189e-14	1.00000	1.11193e-14	1.00000
rad31	7.32694e-15	1.00000	7.32716e-15	1.00000
rad62	3.19168e-15	1.00000	3.19178e-15	1.00000
rad20	1.82505e-15	1.00000	1.82510e-15	1.00000
rad21	1.41110e-15	1.00000	1.41114e-15	1.00000
PhcycC3H3_A+H	2.65846e-16	1.00000	2.65853e-16	1.00000
rad70	1.51999e-16	1.00000	1.52003e-16	1.00000
rad52	1.10097e-16	1.00000	1.10101e-16	1.00000
rad55	7.10967e-17	1.00000	7.10988e-17	1.00000
rad18	1.33870e-17	1.00000	1.33873e-17	1.00000
PAH1+H	7.04882e-18	1.00000	7.04903e-18	1.00000
rad51	4.98000e-18	1.00000	4.98014e-18	1.00000
rad34	4.02154e-19	1.00000	4.02166e-19	1.00000
rad58	2.10570e-19	1.00000	2.10577e-19	1.00000
rad65	5.00972e-20	1.00000	5.00987e-20	1.00000
rad24	9.67606e-21	1.00000	9.67634e-21	1.00000
rad42	7.14164e-21	1.00000	7.14184e-21	1.00000
rad41	2.10804e-21	1.00000	2.10809e-21	1.00000
rad47	5.05322e-28	1.00000	5.05337e-28	1.00000

0.100000000E-01 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.63720e-16 (1.00)	1.63714e-16 (1.00)
Formation of rad11	1.26419e-16 (0.772)	1.26414e-16 (0.772)
Formation of rad6	3.15515e-17 (0.193)	3.15502e-17 (0.193)
H-abstraction	5.75028e-18 (0.0351)	5.75028e-18 (0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.711812	0.711812	0.711839	0.711839
rad6	0.224322	0.936135	0.224331	0.936170
Benzene+2-propynyl	0.0351226	0.971257	0.0351239	0.971294
C2H2+PhCH2	0.0148221	0.986079	0.0148226	0.986117
PhCCH+CH3	0.00713394	0.993213	0.00713421	0.993251
PhCHCCH2+H	0.00359095	0.996804	0.00359109	0.996842
PhCCCH3+H	0.00233172	0.999136	0.00233182	0.999174
Ph+MeAc	0.000339869	0.999476	0.000339882	0.999514
rad28	0.000172146	0.999648	0.000172152	0.999686
rad2	0.000151907	0.999800	0.000151913	0.999838
Phenyl+Allene	3.77321e-05	0.999838	0.00000	0.999838
rad9	3.08952e-05	0.999868	3.08964e-05	0.999869
rad8	3.00509e-05	0.999899	3.00520e-05	0.999899
rad26	2.58507e-05	0.999924	2.58516e-05	0.999924
PAH7+H	2.13444e-05	0.999946	2.13453e-05	0.999946
rad7	1.88978e-05	0.999965	1.88985e-05	0.999965
rad1	1.09839e-05	0.999976	1.09842e-05	0.999976
rad10	8.15662e-06	0.999984	8.15693e-06	0.999984
rad11	4.79051e-06	0.999989	4.79069e-06	0.999989
rad39	4.78803e-06	0.999993	4.78821e-06	0.999993
rad12	1.88078e-06	0.999995	1.88085e-06	0.999995
rad30	1.19093e-06	0.999996	1.19098e-06	0.999996
PhCH2CCH+H	1.02986e-06	0.999997	1.02990e-06	0.999998
rad3	1.00361e-06	0.999998	1.00364e-06	0.999999
rad4	5.26706e-07	0.999999	5.26727e-07	0.999999
PAH9+H	3.19268e-07	0.999999	3.19280e-07	0.999999
rad15	2.89918e-07	1.000000	2.89929e-07	1.000000
rad35	1.37957e-07	1.000000	1.37963e-07	1.000000
rad13	9.66585e-08	1.000000	9.66623e-08	1.000000
rad38	9.61761e-08	1.000000	9.61797e-08	1.000000
rad37	7.16703e-08	1.000000	7.16730e-08	1.000000
rad5	2.56050e-09	1.000000	2.56060e-09	1.000000
rad46	1.99242e-09	1.000000	1.99250e-09	1.000000
rad60syn	3.57355e-10	1.000000	3.57369e-10	1.000000
rad33	1.88382e-10	1.000000	1.88388e-10	1.000000
rad60anti	1.35559e-10	1.000000	1.35564e-10	1.000000
rad14	1.02793e-10	1.000000	1.02797e-10	1.000000
rad27	9.13993e-11	1.000000	9.14027e-11	1.000000
rad25	6.54394e-11	1.000000	6.54419e-11	1.000000
rad23	4.82132e-11	1.000000	4.82151e-11	1.000000
PAH3+H	7.82976e-12	1.000000	7.83006e-12	1.000000
rad19syn	5.36170e-12	1.000000	5.36190e-12	1.000000
rad59	2.19839e-12	1.000000	2.19847e-12	1.000000
rad45	5.18139e-13	1.000000	5.18159e-13	1.000000
rad50	2.97365e-13	1.000000	2.97376e-13	1.000000
rad54	1.62468e-13	1.000000	1.62474e-13	1.000000
PAH10+CH3	1.06934e-13	1.000000	1.06937e-13	1.000000
rad36	3.31202e-14	1.000000	3.31215e-14	1.000000
rad43	2.47646e-14	1.000000	2.47656e-14	1.000000

rad22	2.23828e-14	1.000000	2.23837e-14	1.00000
rad62	7.64448e-15	1.000000	7.64477e-15	1.00000
rad31	7.15816e-15	1.000000	7.15843e-15	1.00000
rad20	1.77014e-15	1.000000	1.77022e-15	1.00000
rad21	1.37500e-15	1.000000	1.37505e-15	1.00000
PhcycC3H3_A+H	7.65000e-16	1.000000	7.65029e-16	1.00000
rad70	4.23124e-16	1.000000	4.23141e-16	1.00000
rad52	2.30029e-16	1.000000	2.30037e-16	1.00000
rad55	2.00125e-16	1.000000	2.00133e-16	1.00000
PAH1+H	2.20818e-17	1.000000	2.20826e-17	1.00000
rad18	1.26665e-17	1.000000	1.26671e-17	1.00000
rad51	1.26334e-17	1.000000	1.26339e-17	1.00000
rad34	1.29216e-18	1.000000	1.29221e-18	1.00000
rad58	6.15879e-19	1.000000	6.15903e-19	1.00000
rad65	1.38004e-19	1.000000	1.38008e-19	1.00000
rad42	2.42788e-20	1.000000	2.42798e-20	1.00000
rad24	8.48789e-21	1.000000	8.48822e-21	1.00000
rad41	7.23181e-21	1.000000	7.23208e-21	1.00000
rad47	1.33068e-27	1.000000	1.33074e-27	1.00000

0.100000000E-01 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.15887e-16 (1.00)	2.15876e-16 (1.00)
Formation of rad11	1.64133e-16 (0.760)	1.64124e-16 (0.760)
Formation of rad6	4.32452e-17 (0.200)	4.32430e-17 (0.200)
H-abstraction	8.50919e-18 (0.0394)	8.50919e-18 (0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.731092	0.731092	0.731128	0.731128
rad6	0.197703	0.928794	0.197713	0.928841
Benzene+2-propynyl	0.0394150	0.968209	0.0394170	0.968258
C2H2+PhCH2	0.0162681	0.984478	0.0162689	0.984526
PhCCH+CH3	0.00801877	0.992496	0.00801917	0.992546
PhCHCCH2+H	0.00399546	0.996492	0.00399565	0.996541
PhCCCH3+H	0.00259352	0.999085	0.00259365	0.999135
Ph+MeAc	0.000408074	0.999493	0.000408094	0.999543
rad28	0.000153278	0.999647	0.000153285	0.999696
rad2	0.000133659	0.999780	0.000133666	0.999830
Phenyl+Allene	4.88248e-05	0.999829	0.000000	0.999830
rad9	3.64434e-05	0.999866	3.64453e-05	0.999866
rad8	3.40638e-05	0.999900	3.40654e-05	0.999900
PAH7+H	2.57154e-05	0.999925	2.57166e-05	0.999926
rad26	2.28038e-05	0.999948	2.28049e-05	0.999949
rad7	1.66381e-05	0.999965	1.66389e-05	0.999966
rad1	9.79432e-06	0.999975	9.79478e-06	0.999975
rad10	7.17901e-06	0.999982	7.17936e-06	0.999983
rad39	5.86910e-06	0.999988	5.86938e-06	0.999988
rad11	4.21866e-06	0.999992	4.21886e-06	0.999993
rad12	2.18423e-06	0.999994	2.18434e-06	0.999995
PhCH2CCH+H	1.48218e-06	0.999996	1.48226e-06	0.999996
rad30	1.34078e-06	0.999997	1.34086e-06	0.999998
rad3	8.83734e-07	0.999998	8.83777e-07	0.999999
rad4	4.65599e-07	0.999998	4.65621e-07	0.999999
PAH9+H	3.67786e-07	0.999999	3.67804e-07	0.999999
rad15	3.31957e-07	0.999999	3.31973e-07	1.000000
rad35	1.56910e-07	0.999999	1.56918e-07	1.000000
rad38	1.11795e-07	0.999999	1.11800e-07	1.000000
rad37	9.24264e-08	0.999999	9.24309e-08	1.000000
rad13	8.56008e-08	0.999999	8.56050e-08	1.000000
rad5	3.65431e-09	0.999999	3.65450e-09	1.000000
rad46	2.45535e-09	0.999999	2.45547e-09	1.000000
rad60syn	4.59945e-10	0.999999	4.59968e-10	1.000000
rad60anti	1.77176e-10	0.999999	1.77185e-10	1.000000
rad33	1.67292e-10	0.999999	1.67300e-10	1.000000
rad14	9.09571e-11	0.999999	9.09616e-11	1.000000
rad27	8.08778e-11	0.999999	8.08818e-11	1.000000
rad25	5.80075e-11	0.999999	5.80103e-11	1.000000
rad23	4.16780e-11	0.999999	4.16800e-11	1.000000
PAH3+H	1.24304e-11	0.999999	1.24309e-11	1.000000
rad19syn	1.03848e-11	0.999999	1.03852e-11	1.000000
rad59	3.41933e-12	0.999999	3.41949e-12	1.000000
rad50	4.82929e-13	0.999999	4.82952e-13	1.000000
rad45	4.48221e-13	0.999999	4.48244e-13	1.000000
rad54	3.48717e-13	0.999999	3.48734e-13	1.000000
PAH10+CH3	2.26877e-13	0.999999	2.26888e-13	1.000000
rad43	5.20188e-14	0.999999	5.20214e-14	1.000000
rad36	2.88133e-14	0.999999	2.88148e-14	1.000000

rad22	1.92809e-14	0.999999	1.92818e-14	1.00000
rad62	1.71672e-14	0.999999	1.71680e-14	1.00000
rad31	7.02848e-15	0.999999	7.02882e-15	1.00000
PhcycC3H3_A+H	2.02492e-15	0.999999	2.02502e-15	1.00000
rad20	1.71231e-15	0.999999	1.71239e-15	1.00000
rad21	1.33658e-15	0.999999	1.33664e-15	1.00000
rad70	1.08730e-15	0.999999	1.08735e-15	1.00000
rad55	5.19393e-16	0.999999	5.19418e-16	1.00000
rad52	4.59972e-16	0.999999	4.59994e-16	1.00000
PAH1+H	6.28776e-17	0.999999	6.28806e-17	1.00000
rad51	3.00292e-17	0.999999	3.00307e-17	1.00000
rad18	1.19517e-17	0.999999	1.19522e-17	1.00000
rad34	3.76178e-18	0.999999	3.76196e-18	1.00000
rad58	1.65422e-18	0.999999	1.65431e-18	1.00000
rad65	3.52193e-19	0.999999	3.52210e-19	1.00000
rad42	7.42231e-20	0.999999	7.42267e-20	1.00000
rad41	2.22857e-20	0.999999	2.22868e-20	1.00000
rad24	7.51653e-21	0.999999	7.51690e-21	1.00000
rad47	3.22717e-27	0.999999	3.22733e-27	1.00000

0.100000000E-01 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79491e-16 (1.00)	2.79474e-16 (1.00)
Formation of rad11	2.09281e-16 (0.749)	2.09267e-16 (0.749)
Formation of rad6	5.79792e-17 (0.207)	5.79754e-17 (0.207)
H-abstraction	1.22310e-17 (0.0438)	1.22310e-17 (0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.747943	0.747943	0.747991	0.747991
rad6	0.173284	0.921227	0.173295	0.921285
Benzene+2-propynyl	0.0437616	0.964988	0.0437643	0.965050
C2H2+PhCH2	0.0177883	0.982777	0.0177894	0.982839
PhCCH+CH3	0.00895688	0.991733	0.00895743	0.991796
PhCHCCH2+H	0.00441899	0.996152	0.00441926	0.996216
PhCCCH3+H	0.00286549	0.999018	0.00286567	0.999081
Ph+MeAc	0.000485299	0.999503	0.000485329	0.999567
rad28	0.000135568	0.999639	0.000135576	0.999702
rad2	0.000117004	0.999756	0.000117012	0.999819
Phenyl+Allene	6.25759e-05	0.999818	0.00000	0.999819
rad9	4.27218e-05	0.999861	4.27244e-05	0.999862
rad8	3.83361e-05	0.999899	3.83385e-05	0.999900
PAH7+H	3.07499e-05	0.999930	3.07518e-05	0.999931
rad26	2.00019e-05	0.999950	2.00032e-05	0.999951
rad7	1.45705e-05	0.999965	1.45714e-05	0.999966
rad1	8.69756e-06	0.999973	8.69811e-06	0.999974
rad39	7.13229e-06	0.999981	7.13273e-06	0.999982
rad10	6.28725e-06	0.999987	6.28764e-06	0.999988
rad11	3.69547e-06	0.999991	3.69571e-06	0.999991
rad12	2.51505e-06	0.999993	2.51521e-06	0.999994
PhCH2CCH+H	2.09756e-06	0.999995	2.09769e-06	0.999996
rad30	1.50371e-06	0.999997	1.50381e-06	0.999998
rad3	7.74357e-07	0.999998	7.74406e-07	0.999998
PAH9+H	4.22347e-07	0.999998	4.22373e-07	0.999999
rad4	4.09681e-07	0.999998	4.09707e-07	0.999999
rad15	3.78550e-07	0.999999	3.78574e-07	1.000000
rad35	1.77898e-07	0.999999	1.77909e-07	1.000000
rad38	1.29531e-07	0.999999	1.29539e-07	1.000000
rad37	1.17351e-07	0.999999	1.17359e-07	1.000000
rad13	7.54062e-08	0.999999	7.54109e-08	1.000000
rad5	5.10768e-09	0.999999	5.10800e-09	1.000000
rad46	3.01295e-09	0.999999	3.01315e-09	1.000000
rad60syn	5.87311e-10	0.999999	5.87348e-10	1.000000
rad60anti	2.29530e-10	0.999999	2.29544e-10	1.000000
rad33	1.47800e-10	0.999999	1.47810e-10	1.000000
rad14	8.00736e-11	0.999999	8.00786e-11	1.000000
rad27	7.12184e-11	0.999999	7.12228e-11	1.000000
rad25	5.11494e-11	0.999999	5.11526e-11	1.000000
rad23	3.63598e-11	0.999999	3.63621e-11	1.000000
PAH3+H	1.93108e-11	0.999999	1.93119e-11	1.000000
rad19syn	1.92787e-11	0.999999	1.92799e-11	1.000000
rad59	5.20922e-12	0.999999	5.20955e-12	1.000000
rad50	7.68512e-13	0.999999	7.68560e-13	1.000000
rad54	7.10750e-13	0.999999	7.10794e-13	1.000000
PAH10+CH3	4.56657e-13	0.999999	4.56686e-13	1.000000
rad45	3.91571e-13	0.999999	3.91596e-13	1.000000
rad43	1.03635e-13	0.999999	1.03642e-13	1.000000
rad62	3.63657e-14	0.999999	3.63679e-14	1.000000

rad36	2.53298e-14	0.999999	2.53314e-14	1.00000
rad22	1.67301e-14	0.999999	1.67311e-14	1.00000
rad31	6.94544e-15	0.999999	6.94587e-15	1.00000
PhcycC3H3_A+H	4.96815e-15	0.999999	4.96846e-15	1.00000
rad70	2.59830e-15	0.999999	2.59847e-15	1.00000
rad20	1.65243e-15	0.999999	1.65253e-15	1.00000
rad21	1.29650e-15	0.999999	1.29657e-15	1.00000
rad55	1.25218e-15	0.999999	1.25226e-15	1.00000
rad52	8.83449e-16	0.999999	8.83503e-16	1.00000
PAH1+H	1.64284e-16	0.999999	1.64294e-16	1.00000
rad51	6.72260e-17	0.999999	6.72303e-17	1.00000
rad18	1.12475e-17	0.999999	1.12482e-17	1.00000
rad34	1.00211e-17	0.999999	1.00217e-17	1.00000
rad58	4.11226e-18	0.999999	4.11251e-18	1.00000
rad65	8.38170e-19	0.999999	8.38223e-19	1.00000
rad42	2.06316e-19	0.999999	2.06329e-19	1.00000
rad41	6.23856e-20	0.999999	6.23895e-20	1.00000
rad24	6.73562e-21	0.999999	6.73604e-21	1.00000
rad47	7.27518e-27	0.999999	7.27563e-27	1.00000

0.100000000E-01 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.55893e-16 (1.00)	3.55865e-16 (1.00)
Formation of rad11	2.62555e-16 (0.738)	2.62533e-16 (0.738)
Formation of rad6	7.62093e-17 (0.214)	7.62029e-17 (0.214)
H-abstraction	1.71289e-17 (0.0481)	1.71289e-17 (0.0481)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.762392	0.762392	0.762453	0.762453
rad6	0.151078	0.913470	0.151090	0.913543
Benzene+2-propynyl	0.0481294	0.961600	0.0481332	0.961676
C2H2+PhCH2	0.0193823	0.980982	0.0193838	0.981060
PhCCH+CH3	0.00994553	0.990927	0.00994634	0.991006
PhCHCCH2+H	0.00485994	0.995787	0.00486032	0.995866
PhCCCH3+H	0.00314596	0.998933	0.00314621	0.999013
Ph+MeAc	0.000571957	0.999505	0.000572002	0.999585
rad28	0.000119150	0.999624	0.000119159	0.999704
rad2	0.000101929	0.999726	0.000101936	0.999806
Phenyl+Allene	7.94827e-05	0.999806	0.00000	0.999806
rad9	4.97890e-05	0.999856	4.97930e-05	0.999856
rad8	4.28516e-05	0.999898	4.28549e-05	0.999898
PAH7+H	3.65161e-05	0.999935	3.65190e-05	0.999935
rad26	1.74494e-05	0.999952	1.74508e-05	0.999952
rad7	1.26943e-05	0.999965	1.26953e-05	0.999965
rad39	8.59830e-06	0.999974	8.59898e-06	0.999974
rad1	7.69389e-06	0.999981	7.69451e-06	0.999981
rad10	5.48030e-06	0.999987	5.48073e-06	0.999987
rad11	3.22077e-06	0.999990	3.22103e-06	0.999990
PhCH2CCH+H	2.92275e-06	0.999993	2.92297e-06	0.999993
rad12	2.87280e-06	0.999996	2.87304e-06	0.999996
rad30	1.68033e-06	0.999998	1.68046e-06	0.999998
rad3	6.75355e-07	0.999998	6.75409e-07	0.999998
PAH9+H	4.83573e-07	0.999999	4.83611e-07	0.999999
rad15	4.30020e-07	0.999999	4.30053e-07	0.999999
rad4	3.58909e-07	1.000000	3.58937e-07	0.999999
rad35	2.01092e-07	1.000000	2.01109e-07	1.000000
rad38	1.49624e-07	1.000000	1.49635e-07	1.000000
rad37	1.46909e-07	1.000000	1.46921e-07	1.000000
rad13	6.60886e-08	1.000000	6.60938e-08	1.000000
rad5	7.00405e-09	1.000000	7.00462e-09	1.000000
rad46	3.68205e-09	1.000000	3.68235e-09	1.000000
rad60syn	7.44319e-10	1.000000	7.44378e-10	1.000000
rad60anti	2.94879e-10	1.000000	2.94903e-10	1.000000
rad33	1.29940e-10	1.000000	1.29950e-10	1.000000
rad14	7.01494e-11	1.000000	7.01551e-11	1.000000
rad27	6.24223e-11	1.000000	6.24273e-11	1.000000
rad25	4.48753e-11	1.000000	4.48788e-11	1.000000
rad19syn	3.44315e-11	1.000000	3.44343e-11	1.000000
rad23	3.20994e-11	1.000000	3.21019e-11	1.000000
PAH3+H	2.94042e-11	1.000000	2.94066e-11	1.000000
rad59	7.78579e-12	1.000000	7.78640e-12	1.000000
rad54	1.38154e-12	1.000000	1.38164e-12	1.000000
rad50	1.19984e-12	1.000000	1.19993e-12	1.000000
PAH10+CH3	8.76007e-13	1.000000	8.76076e-13	1.000000
rad45	3.46433e-13	1.000000	3.46461e-13	1.000000
rad43	1.96763e-13	1.000000	1.96779e-13	1.000000
rad62	7.30356e-14	1.000000	7.30414e-14	1.000000

rad36	2.25649e-14	1.00000	2.25667e-14	1.00000
rad22	1.46544e-14	1.00000	1.46556e-14	1.00000
PhcycC3H3_A+H	1.13741e-14	1.00000	1.13750e-14	1.00000
rad31	6.91797e-15	1.00000	6.91852e-15	1.00000
rad70	5.81122e-15	1.00000	5.81168e-15	1.00000
rad55	2.82242e-15	1.00000	2.82264e-15	1.00000
rad52	1.63434e-15	1.00000	1.63448e-15	1.00000
rad20	1.59138e-15	1.00000	1.59150e-15	1.00000
rad21	1.25539e-15	1.00000	1.25549e-15	1.00000
PAH1+H	3.97093e-16	1.00000	3.97125e-16	1.00000
rad51	1.42367e-16	1.00000	1.42379e-16	1.00000
rad34	2.46388e-17	1.00000	2.46407e-17	1.00000
rad18	1.05590e-17	1.00000	1.05598e-17	1.00000
rad58	9.52613e-18	1.00000	9.52685e-18	1.00000
rad65	1.87077e-18	1.00000	1.87091e-18	1.00000
rad42	5.26464e-19	1.00000	5.26506e-19	1.00000
rad41	1.60192e-19	1.00000	1.60205e-19	1.00000
rad24	6.12531e-21	1.00000	6.12580e-21	1.00000
rad47	1.53676e-26	1.00000	1.53688e-26	1.00000

0.100000000E-01 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34395e-16 (1.00)	6.34339e-16 (1.00)
Formation of rad11	4.51153e-16 (0.711)	4.51111e-16 (0.711)
Formation of rad6	1.51589e-16 (0.239)	1.51575e-16 (0.239)
H-abstraction	3.16530e-17 (0.0499)	3.16530e-17 (0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.809631	0.809631	0.809702	0.809702
rad6	0.0877325	0.897364	0.0877402	0.897443
Benzene+2-propynyl	0.0498949	0.947259	0.0498993	0.947342
C2H2+PhCH2	0.0286050	0.975864	0.0286075	0.975949
PhCCH+CH3	0.0132638	0.989127	0.0132650	0.989214
PhCHCCH2+H	0.00582713	0.994955	0.00582764	0.995042
PhCCCH3+H	0.00394577	0.998900	0.00394612	0.998988
Ph+MeAc	0.000771898	0.999672	0.000771965	0.999760
Phenyl+Allene	8.81216e-05	0.999760	0.000000	0.999760
rad28	7.03175e-05	0.999831	7.03237e-05	0.999831
PAH7+H	6.02562e-05	0.999891	6.02616e-05	0.999891
rad2	5.93209e-05	0.999950	5.93261e-05	0.999950
rad39	1.21247e-05	0.999962	1.21258e-05	0.999962
rad26	1.00859e-05	0.999972	1.00868e-05	0.999972
rad7	8.11253e-06	0.999981	8.11324e-06	0.999980
PhCH2CCH+H	5.16414e-06	0.999986	5.16459e-06	0.999986
rad1	4.47005e-06	0.999990	4.47045e-06	0.999990
rad10	3.32474e-06	0.999993	3.32504e-06	0.999993
rad11	2.02087e-06	0.999995	2.02104e-06	0.999995
rad30	2.00120e-06	0.999997	2.00137e-06	0.999997
PAH9+H	7.32193e-07	0.999998	7.32257e-07	0.999998
rad19anti	6.52501e-07	0.999999	6.52559e-07	0.999999
rad3	4.17260e-07	0.999999	4.17296e-07	0.999999
rad35	2.61479e-07	1.000000	2.61503e-07	0.999999
rad37	2.16938e-07	1.000000	2.16956e-07	1.000000
rad4	2.07504e-07	1.000000	2.07523e-07	1.000000
rad38	1.95763e-07	1.000000	1.95781e-07	1.000000
rad13	4.49377e-08	1.000000	4.49417e-08	1.000000
rad46	5.36196e-09	1.000000	5.36243e-09	1.000000
rad60syn	1.03589e-09	1.000000	1.03598e-09	1.000000
rad60anti	4.23084e-10	1.000000	4.23121e-10	1.000000
rad23	2.46839e-10	1.000000	2.46861e-10	1.000000
rad33	1.07847e-10	1.000000	1.07857e-10	1.000000
rad19syn	6.99073e-11	1.000000	6.99135e-11	1.000000
PAH3+H	6.11395e-11	1.000000	6.11448e-11	1.000000
rad14	5.15883e-11	1.000000	5.15928e-11	1.000000
rad27	4.97938e-11	1.000000	4.97981e-11	1.000000
rad25	4.04198e-11	1.000000	4.04234e-11	1.000000
rad59	1.31923e-11	1.000000	1.31934e-11	1.000000
rad54	3.24786e-12	1.000000	3.24815e-12	1.000000
rad45	3.16346e-12	1.000000	3.16373e-12	1.000000
rad50	2.23485e-12	1.000000	2.23504e-12	1.000000
PAH10+CH3	2.04832e-12	1.000000	2.04850e-12	1.000000
rad67	7.75492e-13	1.000000	7.75561e-13	1.000000
rad43	4.05751e-13	1.000000	4.05787e-13	1.000000
rad22	2.44542e-13	1.000000	2.44564e-13	1.000000
rad62	1.68099e-13	1.000000	1.68114e-13	1.000000
rad36	1.07820e-13	1.000000	1.07829e-13	1.000000
rad9	6.14750e-14	1.000000	6.14804e-14	1.000000

PhcycC3H3_A+H	4.92050e-14	1.00000	4.92093e-14	1.00000
rad21	3.28166e-14	1.00000	3.28195e-14	1.00000
rad20	3.14387e-14	1.00000	3.14415e-14	1.00000
rad70	1.95783e-14	1.00000	1.95801e-14	1.00000
rad31	1.47168e-14	1.00000	1.47181e-14	1.00000
rad55	8.54020e-15	1.00000	8.54096e-15	1.00000
rad52	3.87577e-15	1.00000	3.87612e-15	1.00000
PAH1+H	2.35594e-15	1.00000	2.35615e-15	1.00000
rad18	1.05834e-15	1.00000	1.05844e-15	1.00000
rad51	4.10224e-16	1.00000	4.10260e-16	1.00000
rad34	1.58408e-16	1.00000	1.58422e-16	1.00000
rad15	3.58117e-17	1.00000	3.58149e-17	1.00000
rad58	3.01062e-17	1.00000	3.01088e-17	1.00000
rad5	9.78713e-18	1.00000	9.78794e-18	1.00000
rad65	6.39583e-18	1.00000	6.39639e-18	1.00000
rad42	4.95353e-18	1.00000	4.95396e-18	1.00000
rad41	1.53796e-18	1.00000	1.53810e-18	1.00000
rad24	2.06685e-19	1.00000	2.06703e-19	1.00000
rad53	1.09907e-19	1.00000	1.09916e-19	1.00000
rad64	2.64344e-20	1.00000	2.64367e-20	1.00000
rad12	6.40546e-22	1.00000	6.40603e-22	1.00000
rad56	3.11353e-22	1.00000	3.11380e-22	1.00000
rad61	3.57397e-23	1.00000	3.57429e-23	1.00000
rad68syn	3.29157e-23	1.00000	3.29187e-23	1.00000
rad68anti	2.37252e-23	1.00000	2.37273e-23	1.00000
rad40syn	5.34094e-26	1.00000	5.34141e-26	1.00000
rad47	2.88393e-26	1.00000	2.88418e-26	1.00000
rad40anti	1.32779e-26	1.00000	1.32791e-26	1.00000
PAH8+H	1.19102e-26	1.00000	1.19113e-26	1.00000
rad73	1.02319e-26	1.00000	1.02328e-26	1.00000
rad71	9.99625e-29	1.00000	9.99715e-29	1.00000
rad72	1.58000e-35	1.00000	1.58014e-35	1.00000
rad8	1.78691e-37	1.00000	1.78706e-37	1.00000

0.100000000E-01 Pa, 400.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	5.11288e-15	(1.00)	5.10971e-15	(1.00)
Formation of rad11	3.08094e-15	(0.603)	3.07882e-15	(0.603)
Formation of rad6	1.54092e-15	(0.301)	1.53986e-15	(0.301)
H-abstraction	4.91025e-16	(0.0960)	4.91025e-16	(0.0961)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.790199	0.790199	0.790689	0.790689
Benzene+2-propynyl	0.0960368	0.886235	0.0960964	0.886785
C2H2+PhCH2	0.0512563	0.937492	0.0512881	0.938073
PhCCH+CH3	0.0255223	0.963014	0.0255382	0.963611
rad6	0.0168457	0.979860	0.0168562	0.980468
PhCHCCH2+H	0.0103658	0.990226	0.0103723	0.990840
PhCCCH3+H	0.00655127	0.996777	0.00655534	0.997395
Ph+MeAc	0.00223579	0.999013	0.00223718	0.999632
Phenyl+Allene	0.000620075	0.999633	0.00000	0.999632
PAH7+H	0.000211530	0.999844	0.000211662	0.999844
PhCH2CCH+H	6.34703e-05	0.999908	6.35097e-05	0.999908
rad39	4.79801e-05	0.999956	4.80098e-05	0.999956
rad28	1.40259e-05	0.999970	1.40346e-05	0.999970
rad2	1.25776e-05	0.999982	1.25854e-05	0.999982
rad30	4.61157e-06	0.999987	4.61443e-06	0.999987
rad19anti	2.51268e-06	0.999989	2.51424e-06	0.999989
PAH9+H	2.23198e-06	0.999992	2.23336e-06	0.999992
rad26	1.98411e-06	0.999994	1.98534e-06	0.999994
rad7	1.61700e-06	0.999995	1.61801e-06	0.999995
rad1	1.17051e-06	0.999996	1.17124e-06	0.999996
rad37	9.57189e-07	0.999997	9.57785e-07	0.999997
rad10	7.24567e-07	0.999998	7.25017e-07	0.999998
rad35	7.13815e-07	0.999999	7.14257e-07	0.999999
rad38	6.53364e-07	0.999999	6.53769e-07	0.999999
rad11	4.11345e-07	1.000000	4.11600e-07	1.000000
rad3	9.71815e-08	1.000000	9.72410e-08	1.000000
rad4	5.11791e-08	1.000000	5.12108e-08	1.000000
rad46	2.92700e-08	1.000000	2.92881e-08	1.000000
rad13	9.63010e-09	1.000000	9.63606e-09	1.000000
rad60syn	6.70676e-09	1.000000	6.71092e-09	1.000000
rad19syn	4.62475e-09	1.000000	4.62762e-09	1.000000
rad60anti	3.04826e-09	1.000000	3.05016e-09	1.000000
rad23	2.11554e-09	1.000000	2.11685e-09	1.000000
PAH3+H	1.45445e-09	1.000000	1.45536e-09	1.000000
rad54	4.18592e-10	1.000000	4.18852e-10	1.000000

rad59	2.83935e-10	1.00000	2.84111e-10	1.00000
PAH10+CH3	1.98161e-10	1.00000	1.98284e-10	1.00000
rad50	7.80106e-11	1.00000	7.80589e-11	1.00000
rad45	7.71443e-11	1.00000	7.71921e-11	1.00000
rad43	3.26824e-11	1.00000	3.27027e-11	1.00000
rad33	2.53237e-11	1.00000	2.53394e-11	1.00000
rad67	2.48555e-11	1.00000	2.48709e-11	1.00000
PhcycC3H3_A+H	2.38025e-11	1.00000	2.38173e-11	1.00000
rad62	2.26690e-11	1.00000	2.26830e-11	1.00000
rad27	1.16997e-11	1.00000	1.17070e-11	1.00000
rad14	1.16317e-11	1.00000	1.16389e-11	1.00000
rad25	9.04352e-12	1.00000	9.04907e-12	1.00000
rad70	7.64073e-12	1.00000	7.64547e-12	1.00000
rad55	3.50872e-12	1.00000	3.51090e-12	1.00000
rad36	2.95920e-12	1.00000	2.96103e-12	1.00000
PAH1+H	2.19444e-12	1.00000	2.19581e-12	1.00000
rad22	6.39808e-13	1.00000	6.40205e-13	1.00000
rad52	4.56354e-13	1.00000	4.56638e-13	1.00000
rad34	1.75120e-13	1.00000	1.75229e-13	1.00000
rad51	1.37101e-13	1.00000	1.37186e-13	1.00000
rad9	1.09158e-13	1.00000	1.09226e-13	1.00000
rad31	6.30599e-14	1.00000	6.30991e-14	1.00000
rad21	2.52701e-14	1.00000	2.52858e-14	1.00000
rad20	2.18569e-14	1.00000	2.18705e-14	1.00000
rad58	1.74212e-14	1.00000	1.74320e-14	1.00000
rad42	7.28482e-15	1.00000	7.28935e-15	1.00000
rad65	3.20792e-15	1.00000	3.20991e-15	1.00000
rad41	2.20894e-15	1.00000	2.21031e-15	1.00000
rad53	9.04415e-16	1.00000	9.04979e-16	1.00000
rad18	5.38954e-16	1.00000	5.39289e-16	1.00000
rad64	3.15181e-16	1.00000	3.15377e-16	1.00000
rad15	6.75364e-17	1.00000	6.75783e-17	1.00000
rad56	1.60317e-17	1.00000	1.60417e-17	1.00000
rad5	8.42017e-18	1.00000	8.42539e-18	1.00000
rad68syn	1.85313e-18	1.00000	1.85429e-18	1.00000
rad24	1.40985e-18	1.00000	1.41072e-18	1.00000
rad68anti	1.33375e-18	1.00000	1.33459e-18	1.00000
rad61	9.32420e-19	1.00000	9.33000e-19	1.00000
rad40syn	1.45612e-20	1.00000	1.45703e-20	1.00000
PAH8+H	9.16709e-21	1.00000	9.17272e-21	1.00000
rad40anti	3.72898e-21	1.00000	3.73131e-21	1.00000
rad73	3.49884e-21	1.00000	3.50101e-21	1.00000
rad12	2.05058e-21	1.00000	2.05184e-21	1.00000
rad71	3.66513e-22	1.00000	3.66740e-22	1.00000
rad47	7.50856e-24	1.00000	7.51322e-24	1.00000
rad72	1.53060e-25	1.00000	1.53155e-25	1.00000
rad8	5.30475e-35	1.00000	5.30805e-35	1.00000

0.100000000E-01 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.11551e-14 (1.00)	2.10969e-14 (1.00)
Formation of rad11	1.10850e-14 (0.524)	1.10495e-14 (0.524)
Formation of rad6	7.08033e-15 (0.335)	7.05764e-15 (0.335)
H-abstraction	2.98976e-15 (0.141)	2.98976e-15 (0.142)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.705088	0.705088	0.707034	0.707034
Benzene+2-propynyl	0.141326	0.846414	0.141716	0.848750
C2H2+PhCH2	0.0806675	0.927082	0.0808901	0.929640
PhCCH+CH3	0.0386943	0.965776	0.0388011	0.968441
PhCHCCH2+H	0.0152936	0.981069	0.0153358	0.983777
PhCCCH3+H	0.00817583	0.989245	0.00819839	0.991975
Ph+MeAc	0.00430486	0.993550	0.00431674	0.996292
Phenyl+Allene	0.00275181	0.996302	0.00000	0.996292
rad6	0.00255301	0.998855	0.00256006	0.998852
PAH7+H	0.000572457	0.999427	0.000574036	0.999426
PhCH2CCH+H	0.000399021	0.999826	0.000400122	0.999826
rad39	0.000137391	0.999964	0.000137771	0.999964
rad30	9.10358e-06	0.999973	9.12871e-06	0.999973
rad19anti	7.85448e-06	0.999981	7.87616e-06	0.999981
PAH9+H	6.10677e-06	0.999987	6.12362e-06	0.999987
rad2	2.95997e-06	0.999990	2.96814e-06	0.999990
rad37	2.40844e-06	0.999992	2.41508e-06	0.999992
rad28	2.17261e-06	0.999994	2.17860e-06	0.999995
rad38	1.92838e-06	0.999996	1.93371e-06	0.999996
rad35	1.75905e-06	0.999998	1.76390e-06	0.999998
rad1	3.53529e-07	0.999998	3.54504e-07	0.999999

rad26	3.19656e-07	0.999999	3.20538e-07	0.999999
rad7	2.61140e-07	0.999999	2.61861e-07	0.999999
rad10	1.48234e-07	0.999999	1.48643e-07	0.999999
rad46	1.27620e-07	0.999999	1.27971e-07	0.999999
rad19syn	7.63677e-08	0.999999	7.65784e-08	1.000000
rad11	6.88281e-08	0.999999	6.90180e-08	1.000000
rad23	3.33051e-08	0.999999	3.33970e-08	1.000000
rad3	3.17726e-08	1.000000	3.18602e-08	1.000000
rad60syn	2.90739e-08	1.000000	2.91541e-08	1.000000
rad4	1.79108e-08	1.000000	1.79602e-08	1.000000
PAH3+H	1.45802e-08	1.000000	1.46204e-08	1.000000
rad60anti	1.41522e-08	1.000000	1.41913e-08	1.000000
rad54	1.02819e-08	1.000000	1.03102e-08	1.000000
rad45	3.51262e-09	1.000000	3.52231e-09	1.000000
PAH10+CH3	3.35840e-09	1.000000	3.36766e-09	1.000000
rad59	2.61722e-09	1.000000	2.62444e-09	1.000000
rad13	1.73811e-09	1.000000	1.74291e-09	1.000000
PhcycC3H3_A+H	1.25829e-09	1.000000	1.26176e-09	1.000000
rad50	1.15929e-09	1.000000	1.16249e-09	1.000000
rad62	4.83957e-10	1.000000	4.85292e-10	1.000000
rad43	4.60645e-10	1.000000	4.61916e-10	1.000000
rad67	3.97789e-10	1.000000	3.98886e-10	1.000000
rad70	3.42486e-10	1.000000	3.43430e-10	1.000000
rad36	1.76010e-10	1.000000	1.76496e-10	1.000000
PAH1+H	1.64296e-10	1.000000	1.64749e-10	1.000000
rad55	1.59806e-10	1.000000	1.60248e-10	1.000000
rad34	1.41613e-11	1.000000	1.42003e-11	1.000000
rad52	1.35266e-11	1.000000	1.35640e-11	1.000000
rad51	7.32809e-12	1.000000	7.34831e-12	1.000000
rad22	6.41391e-12	1.000000	6.43160e-12	1.000000
rad33	5.41319e-12	1.000000	5.42812e-12	1.000000
rad27	2.65305e-12	1.000000	2.66037e-12	1.000000
rad14	2.38725e-12	1.000000	2.39384e-12	1.000000
rad25	1.77116e-12	1.000000	1.77605e-12	1.000000
rad58	1.01107e-12	1.000000	1.01387e-12	1.000000
rad42	6.16553e-13	1.000000	6.18254e-13	1.000000
rad9	5.05200e-13	1.000000	5.06595e-13	1.000000
rad31	2.42575e-13	1.000000	2.43244e-13	1.000000
rad53	2.35953e-13	1.000000	2.36605e-13	1.000000
rad65	2.04103e-13	1.000000	2.04666e-13	1.000000
rad41	1.65594e-13	1.000000	1.66051e-13	1.000000
rad64	9.67872e-14	1.000000	9.70548e-14	1.000000
rad21	2.69798e-14	1.000000	2.70542e-14	1.000000
rad20	1.98817e-14	1.000000	1.99366e-14	1.000000
rad56	1.22518e-14	1.000000	1.22857e-14	1.000000
rad68syn	1.45724e-15	1.000000	1.46126e-15	1.000000
rad68anti	1.02920e-15	1.000000	1.03204e-15	1.000000
rad61	4.31579e-16	1.000000	4.32770e-16	1.000000
rad15	3.37368e-16	1.000000	3.38300e-16	1.000000
rad18	2.97195e-16	1.000000	2.98014e-16	1.000000
rad73	1.52561e-16	1.000000	1.52982e-16	1.000000
rad71	1.16679e-16	1.000000	1.17001e-16	1.000000
PAH8+H	3.90025e-17	1.000000	3.91102e-17	1.000000
rad40syn	3.05283e-17	1.000000	3.06125e-17	1.000000
rad24	2.52651e-17	1.000000	2.53348e-17	1.000000
rad40anti	9.23916e-18	1.000000	9.26466e-18	1.000000
rad5	4.66768e-18	1.000000	4.68056e-18	1.000000
rad72	1.30968e-18	1.000000	1.31329e-18	1.000000
rad12	9.39965e-20	1.000000	9.42559e-20	1.000000
rad47	4.86557e-22	1.000000	4.87899e-22	1.000000
rad8	9.28819e-32	1.000000	9.31384e-32	1.000000

0.100000000E-01 Pa, 600.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	6.08120e-14	(1.00)	6.02872e-14	(1.00)
Formation of rad11	2.83304e-14	(0.466)	2.80314e-14	(0.465)
Formation of rad6	2.13840e-14	(0.352)	2.11583e-14	(0.351)
H-abstraction	1.10975e-14	(0.182)	1.10975e-14	(0.184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.606858	0.606858	0.612140	0.612140
Benzene+2-propynyl	0.182488	0.789346	0.184077	0.796217
C2H2+PhCH2	0.112696	0.902042	0.113676	0.909893
PhCCH+CH3	0.0502136	0.952255	0.0506506	0.960543
PhCHCCH2+H	0.0208667	0.973122	0.0210484	0.981592
Phenyl+Allene	0.00862900	0.981751	0.000000	0.981592
PhCCCH3+H	0.00839315	0.990144	0.00846618	0.990058

Ph+MeAc	0.00630033	0.996444	0.00635517	0.996413
PhCH2CCH+H	0.00158483	0.998029	0.00159863	0.998012
PAH7+H	0.00124590	0.999275	0.00125674	0.999268
rad6	0.000354328	0.999630	0.000357412	0.999626
rad39	0.000304277	0.999934	0.000306926	0.999933
rad19anti	2.07156e-05	0.999955	2.08959e-05	0.999954
rad30	1.54255e-05	0.999970	1.55598e-05	0.999969
PAH9+H	1.45636e-05	0.999985	1.46903e-05	0.999984
rad38	4.88068e-06	0.999989	4.92315e-06	0.999989
rad37	4.23559e-06	0.999994	4.27246e-06	0.999993
rad35	3.82869e-06	0.999997	3.86201e-06	0.999997
rad2	1.04592e-06	0.999999	1.05503e-06	0.999998
rad19syn	5.75769e-07	0.999999	5.80781e-07	0.999999
rad46	4.35580e-07	1.000000	4.39371e-07	0.999999
rad28	3.07042e-07	1.000000	3.09715e-07	0.999999
rad1	1.55784e-07	1.000000	1.57139e-07	1.000000
rad23	1.17198e-07	1.000000	1.18218e-07	1.000000
rad54	1.01009e-07	1.000000	1.01888e-07	1.000000
rad60syn	8.95813e-08	1.000000	9.03611e-08	1.000000
PAH3+H	8.11693e-08	1.000000	8.18755e-08	1.000000
rad26	5.01343e-08	1.000000	5.05707e-08	1.000000
rad60anti	4.57446e-08	1.000000	4.61428e-08	1.000000
rad7	4.00400e-08	1.000000	4.03885e-08	1.000000
rad10	3.45826e-08	1.000000	3.48837e-08	1.000000
PAH10+CH3	2.26274e-08	1.000000	2.28243e-08	1.000000
PhcycC3H3_A+H	2.05526e-08	1.000000	2.07315e-08	1.000000
rad3	1.56406e-08	1.000000	1.57767e-08	1.000000
rad45	1.54623e-08	1.000000	1.55969e-08	1.000000
rad59	1.35460e-08	1.000000	1.36639e-08	1.000000
rad11	1.11824e-08	1.000000	1.12797e-08	1.000000
rad4	9.71719e-09	1.000000	9.80177e-09	1.000000
rad50	9.49532e-09	1.000000	9.57796e-09	1.000000
rad70	4.88184e-09	1.000000	4.92433e-09	1.000000
rad62	3.91184e-09	1.000000	3.94589e-09	1.000000
rad67	3.65890e-09	1.000000	3.69075e-09	1.000000
PAH1+H	3.26051e-09	1.000000	3.28890e-09	1.000000
rad43	2.57861e-09	1.000000	2.60106e-09	1.000000
rad55	2.29320e-09	1.000000	2.31317e-09	1.000000
rad36	1.24169e-09	1.000000	1.25249e-09	1.000000
rad13	3.21466e-10	1.000000	3.24264e-10	1.000000
rad34	2.96026e-10	1.000000	2.98602e-10	1.000000
rad52	1.77852e-10	1.000000	1.79400e-10	1.000000
rad51	1.54152e-10	1.000000	1.55493e-10	1.000000
rad22	1.98584e-11	1.000000	2.00312e-11	1.000000
rad58	1.71574e-11	1.000000	1.73068e-11	1.000000
rad42	1.22325e-11	1.000000	1.23390e-11	1.000000
rad53	1.06222e-11	1.000000	1.07146e-11	1.000000
rad9	4.98541e-12	1.000000	5.02880e-12	1.000000
rad64	4.61198e-12	1.000000	4.65212e-12	1.000000
rad65	4.59375e-12	1.000000	4.63373e-12	1.000000
rad41	2.81201e-12	1.000000	2.83648e-12	1.000000
rad33	1.42370e-12	1.000000	1.43609e-12	1.000000
rad56	1.11033e-12	1.000000	1.11999e-12	1.000000
rad27	7.01344e-13	1.000000	7.07449e-13	1.000000
rad14	5.49252e-13	1.000000	5.54033e-13	1.000000
rad25	4.00875e-13	1.000000	4.04364e-13	1.000000
rad71	3.99413e-13	1.000000	4.02890e-13	1.000000
rad73	3.15506e-13	1.000000	3.18253e-13	1.000000
rad31	3.11876e-13	1.000000	3.14591e-13	1.000000
rad68syn	1.33728e-13	1.000000	1.34892e-13	1.000000
rad68anti	9.28669e-14	1.000000	9.36753e-14	1.000000
rad21	6.28921e-14	1.000000	6.34395e-14	1.000000
rad20	3.53092e-14	1.000000	3.56165e-14	1.000000
rad61	3.16153e-14	1.000000	3.18904e-14	1.000000
PAH8+H	1.57835e-14	1.000000	1.59209e-14	1.000000
rad72	1.13350e-14	1.000000	1.14337e-14	1.000000
rad40syn	6.22140e-15	1.000000	6.27556e-15	1.000000
rad15	3.26398e-15	1.000000	3.29239e-15	1.000000
rad40anti	2.58207e-15	1.000000	2.60454e-15	1.000000
rad24	8.84057e-16	1.000000	8.91755e-16	1.000000
rad18	2.16650e-16	1.000000	2.18535e-16	1.000000
rad12	3.40867e-17	1.000000	3.43834e-17	1.000000
rad5	2.31023e-18	1.000000	2.33033e-18	1.000000
rad47	1.08597e-20	1.000000	1.09542e-20	1.000000
rad8	7.63316e-28	1.000000	7.69961e-28	1.000000

0.100000000E-01 Pa, 700.00000 K

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Rate constant | True (fraction) | Effective (fraction)

Total	1.39564e-13	(1.00)	1.36669e-13	(1.00)
Formation of rad11	5.88273e-14	(0.422)	5.72652e-14	(0.419)
Formation of rad6	5.01684e-14	(0.359)	4.88362e-14	(0.357)
H-abstraction	3.05678e-14	(0.219)	3.05678e-14	(0.224)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.510489	0.510489	0.521300	0.521300
Benzene+2-propynyl	0.219024	0.729514	0.223663	0.744963
C2H2+PhCH2	0.140645	0.870159	0.143623	0.888586
PhCCH+CH3	0.0585858	0.928745	0.0598265	0.948413
PhCHCCH2+H	0.0277539	0.956499	0.0283417	0.976754
Phenyl+Allene	0.0207387	0.977237	0.000000	0.976754
Ph+MeAc	0.00771078	0.984948	0.00787408	0.984629
PhCCCH3+H	0.00755689	0.992505	0.00771693	0.992345
PhCH2CCH+H	0.00451139	0.997016	0.00460693	0.996952
PAH7+H	0.00225675	0.999273	0.00230454	0.999257
rad39	0.000548160	0.999821	0.000559769	0.999817
rad6	4.98492e-05	0.999871	5.09049e-05	0.999868
rad19anti	4.65977e-05	0.999918	4.75846e-05	0.999915
PAH9+H	3.00024e-05	0.999948	3.06378e-05	0.999946
rad30	2.26700e-05	0.999970	2.31501e-05	0.999969
rad38	1.05340e-05	0.999981	1.07570e-05	0.999980
rad35	7.29844e-06	0.999988	7.45300e-06	0.999987
rad37	5.93403e-06	0.999994	6.05969e-06	0.999993
rad19syn	2.61370e-06	0.999997	2.66906e-06	0.999996
rad46	1.18547e-06	0.999998	1.21057e-06	0.999997
rad54	5.53852e-07	0.999998	5.65582e-07	0.999998
rad2	3.21232e-07	0.999999	3.28036e-07	0.999998
PAH3+H	2.96702e-07	0.999999	3.02985e-07	0.999998
rad60syn	2.09879e-07	0.999999	2.14323e-07	0.999999
PhcycC3H3_A+H	1.62839e-07	0.999999	1.66288e-07	0.999999
rad23	1.14168e-07	1.000000	1.16586e-07	0.999999
rad60anti	1.11047e-07	1.000000	1.13399e-07	0.999999
PAH10+CH3	8.90843e-08	1.000000	9.09712e-08	0.999999
rad1	5.59407e-08	1.000000	5.71255e-08	0.999999
rad50	4.99446e-08	1.000000	5.10023e-08	0.999999
rad59	4.64279e-08	1.000000	4.74111e-08	0.999999
rad28	4.41981e-08	1.000000	4.51341e-08	0.999999
rad70	3.43287e-08	1.000000	3.50557e-08	0.999999
PAH1+H	2.88066e-08	1.000000	2.94167e-08	0.999999
rad67	2.16509e-08	1.000000	2.21094e-08	0.999999
rad62	1.75418e-08	1.000000	1.79133e-08	0.999999
rad45	1.68277e-08	1.000000	1.71841e-08	0.999999
rad55	1.62461e-08	1.000000	1.65902e-08	0.999999
rad43	8.28412e-09	1.000000	8.45959e-09	0.999999
rad26	8.17424e-09	1.000000	8.34733e-09	0.999999
rad10	8.16643e-09	1.000000	8.33934e-09	0.999999
rad7	6.56667e-09	1.000000	6.70574e-09	0.999999
rad3	5.68218e-09	1.000000	5.80252e-09	0.999999
rad4	3.84890e-09	1.000000	3.93041e-09	0.999999
rad34	2.73117e-09	1.000000	2.78901e-09	0.999999
rad11	2.01451e-09	1.000000	2.05717e-09	0.999999
rad36	1.56234e-09	1.000000	1.59543e-09	0.999999
rad51	1.53126e-09	1.000000	1.56369e-09	0.999999
rad52	1.30368e-09	1.000000	1.33129e-09	0.999999
rad53	1.69600e-10	1.000000	1.73192e-10	0.999999
rad58	1.36197e-10	1.000000	1.39082e-10	0.999999
rad42	1.03628e-10	1.000000	1.05823e-10	0.999999
rad13	7.39678e-11	1.000000	7.55343e-11	0.999999
rad64	7.33307e-11	1.000000	7.48837e-11	0.999999
rad9	6.38911e-11	1.000000	6.52442e-11	0.999999
rad65	4.66024e-11	1.000000	4.75893e-11	0.999999
rad56	2.88867e-11	1.000000	2.94984e-11	0.999999
rad41	2.01896e-11	1.000000	2.06173e-11	0.999999
rad22	1.95912e-11	1.000000	2.00061e-11	0.999999
rad71	8.84041e-12	1.000000	9.02764e-12	0.999999
rad73	6.51118e-12	1.000000	6.64907e-12	0.999999
rad68syn	3.44659e-12	1.000000	3.51958e-12	0.999999
rad68anti	2.36469e-12	1.000000	2.41477e-12	0.999999
rad33	9.21895e-13	1.000000	9.41418e-13	0.999999
PAH8+H	7.77567e-13	1.000000	7.94038e-13	0.999999
rad61	6.46761e-13	1.000000	6.60458e-13	0.999999
rad21	4.95056e-13	1.000000	5.05540e-13	0.999999
rad72	2.84566e-13	1.000000	2.90592e-13	0.999999
rad40syn	2.57688e-13	1.000000	2.63146e-13	0.999999
rad27	2.23225e-13	1.000000	2.27952e-13	0.999999
rad20	2.04302e-13	1.000000	2.08629e-13	0.999999
rad31	1.79103e-13	1.000000	1.82896e-13	0.999999
rad25	1.67771e-13	1.000000	1.71324e-13	0.999999

rad14	1.62192e-13	1.00000	1.65628e-13	0.999999
rad40anti	1.22259e-13	1.00000	1.24847e-13	0.999999
rad24	4.03637e-14	1.00000	4.12185e-14	0.999999
rad15	2.93845e-14	1.00000	3.00068e-14	0.999999
rad12	4.81694e-15	1.00000	4.91895e-15	0.999999
rad18	2.59111e-16	1.00000	2.64599e-16	0.999999
rad5	1.23763e-18	1.00000	1.26384e-18	0.999999
rad47	1.02543e-19	1.00000	1.04714e-19	0.999999
rad8	9.34039e-24	1.00000	9.53816e-24	0.999999

0.100000000E-01 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.75392e-13 (1.00)	2.64229e-13 (1.00)
Formation of rad11	1.06471e-13 (0.387)	1.00706e-13 (0.381)
Formation of rad6	9.97133e-14 (0.362)	9.43147e-14 (0.357)
H-abstraction	6.92082e-14 (0.251)	6.92082e-14 (0.262)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.420982	0.420982	0.438768	0.438768
Benzene+2-propynyl	0.251308	0.672290	0.261925	0.700693
C2H2+PhCH2	0.158741	0.831031	0.165448	0.866141
PhCCH+CH3	0.0631379	0.894169	0.0658053	0.931947
Phenyl+Allene	0.0405348	0.934704	0.000000	0.931947
PhCHCCH2+H	0.0360766	0.970781	0.0376008	0.969547
PhCH2CCH+H	0.00999796	0.980779	0.0104204	0.979968
Ph+MeAc	0.00840310	0.989182	0.00875807	0.988726
PhCCCH3+H	0.00623361	0.995415	0.00649697	0.995223
PAH7+H	0.00350996	0.998925	0.00365825	0.998881
rad39	0.000836536	0.999762	0.000871881	0.999753
rad19anti	9.01912e-05	0.999852	9.40013e-05	0.999847
PAH9+H	5.38725e-05	0.999906	5.61486e-05	0.999903
rad30	2.94533e-05	0.999935	3.06976e-05	0.999934
rad38	1.96355e-05	0.999955	2.04651e-05	0.999954
rad35	1.22747e-05	0.999967	1.27933e-05	0.999967
rad19syn	8.33339e-06	0.999976	8.68545e-06	0.999976
rad6	8.18283e-06	0.999984	8.52853e-06	0.999984
rad37	7.26167e-06	0.999991	7.56844e-06	0.999992
rad46	2.65499e-06	0.999994	2.76715e-06	0.999995
rad54	2.03469e-06	0.999996	2.12065e-06	0.999997
PAH3+H	7.96549e-07	0.999997	8.30202e-07	0.999997
PhcycC3H3_A+H	7.94325e-07	0.999997	8.27884e-07	0.999998
rad60syn	3.96778e-07	0.999998	4.13541e-07	0.999999
PAH10+CH3	2.53608e-07	0.999998	2.64322e-07	0.999999
rad60anti	2.15806e-07	0.999998	2.24923e-07	0.999999
rad50	1.84589e-07	0.999998	1.92387e-07	0.999999
rad70	1.50042e-07	0.999999	1.56382e-07	1.000000
PAH1+H	1.48718e-07	0.999999	1.55001e-07	1.000000
rad59	1.17665e-07	0.999999	1.22636e-07	1.000000
rad67	9.03619e-08	0.999999	9.41799e-08	1.000000
rad2	7.65538e-08	0.999999	7.97881e-08	1.000000
rad55	7.18813e-08	0.999999	7.49183e-08	1.000000
rad23	5.83338e-08	0.999999	6.07983e-08	1.000000
rad62	5.32947e-08	0.999999	5.55463e-08	1.000000
rad43	1.85517e-08	0.999999	1.93355e-08	1.000000
rad34	1.46567e-08	0.999999	1.52759e-08	1.000000
rad1	1.37107e-08	0.999999	1.42900e-08	1.000000
rad45	1.08986e-08	0.999999	1.13590e-08	1.000000
rad51	7.91353e-09	0.999999	8.24784e-09	1.000000
rad28	7.53993e-09	0.999999	7.85843e-09	1.000000
rad52	5.94064e-09	0.999999	6.19162e-09	1.000000
rad10	1.82801e-09	0.999999	1.90524e-09	1.000000
rad3	1.60094e-09	0.999999	1.66858e-09	1.000000
rad26	1.46824e-09	0.999999	1.53027e-09	1.000000
rad53	1.38665e-09	0.999999	1.44523e-09	1.000000
rad7	1.36382e-09	0.999999	1.42144e-09	1.000000
rad4	1.12111e-09	0.999999	1.16847e-09	1.000000
rad36	9.98651e-10	0.999999	1.04083e-09	1.000000
rad58	6.49271e-10	0.999999	6.76701e-10	1.000000
rad64	5.75571e-10	0.999999	5.99888e-10	1.000000
rad9	5.46935e-10	0.999999	5.70041e-10	1.000000
rad42	5.07956e-10	0.999999	5.29415e-10	1.000000
rad11	4.91526e-10	0.999999	5.12291e-10	1.000000
rad56	3.39960e-10	0.999999	3.54323e-10	1.000000
rad65	2.47724e-10	0.999999	2.58189e-10	1.000000
rad41	8.12286e-11	0.999999	8.46602e-11	1.000000
rad68syn	3.95958e-11	0.999999	4.12686e-11	1.000000
rad13	3.26537e-11	0.999999	3.40332e-11	1.000000

rad68anti	2.69181e-11	0.999999	2.80553e-11	1.00000
rad71	2.51960e-11	0.999999	2.62604e-11	1.00000
rad73	1.87814e-11	0.999999	1.95749e-11	1.00000
PAH8+H	1.08545e-11	0.999999	1.13130e-11	1.00000
rad22	1.06243e-11	0.999999	1.10732e-11	1.00000
rad21	6.09176e-12	0.999999	6.34912e-12	1.00000
rad61	4.97105e-12	0.999999	5.18106e-12	1.00000
rad40syn	3.48075e-12	0.999999	3.62780e-12	1.00000
rad33	3.20580e-12	0.999999	3.34124e-12	1.00000
rad20	2.38917e-12	0.999999	2.49010e-12	1.00000
rad40anti	1.46094e-12	0.999999	1.52266e-12	1.00000
rad72	8.33332e-13	0.999999	8.68537e-13	1.00000
rad24	5.59403e-13	0.999999	5.83037e-13	1.00000
rad25	2.19079e-13	0.999999	2.28335e-13	1.00000
rad15	1.59686e-13	0.999999	1.66432e-13	1.00000
rad27	1.25634e-13	0.999999	1.30941e-13	1.00000
rad12	1.15994e-13	0.999999	1.20895e-13	1.00000
rad14	9.25773e-14	0.999999	9.64878e-14	1.00000
rad31	8.41710e-14	0.999999	8.77276e-14	1.00000
rad18	7.57115e-16	0.999999	7.89098e-16	1.00000
rad5	8.70549e-19	0.999999	9.07331e-19	1.00000
rad47	5.66488e-19	0.999999	5.90420e-19	1.00000
rad8	3.33801e-20	0.999999	3.47903e-20	1.00000

0.100000000E-01 Pa, 900.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	4.88072e-13	(1.00)	4.55159e-13	(1.00)
Formation of rad11	1.74945e-13	(0.358)	1.58562e-13	(0.348)
Formation of rad6	1.76509e-13	(0.362)	1.59979e-13	(0.351)
H-abstraction	1.36618e-13	(0.280)	1.36618e-13	(0.300)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.341022	0.341022	0.365682	0.365682
Benzene+2-propynyl	0.279914	0.620936	0.300155	0.665837
C2H2+PhCH2	0.164620	0.785555	0.176524	0.842361
Phenyl+Allene	0.0674357	0.852991	0.000000	0.842361
PhCCH+CH3	0.0639237	0.916915	0.0685462	0.910907
PhCHCCH2+H	0.0451260	0.962041	0.0483892	0.959296
PhCH2CCH+H	0.0182966	0.980337	0.0196197	0.978916
Ph+MeAc	0.00849299	0.988830	0.00910708	0.988023
PhCCCH3+H	0.00485348	0.993684	0.00520444	0.993227
PAH7+H	0.00482405	0.998508	0.00517289	0.998400
rad39	0.00111869	0.999627	0.00119959	0.999600
rad19anti	0.000152570	0.999779	0.000163603	0.999763
PAH9+H	8.58163e-05	0.999865	9.20219e-05	0.999855
rad30	3.45808e-05	0.999900	3.70815e-05	0.999892
rad38	3.22682e-05	0.999932	3.46016e-05	0.999927
rad19syn	2.05725e-05	0.999952	2.20602e-05	0.999949
rad35	1.85033e-05	0.999971	1.98414e-05	0.999969
rad37	8.30346e-06	0.999979	8.90392e-06	0.999978
rad54	5.61021e-06	0.999985	6.01590e-06	0.999984
rad46	5.06442e-06	0.999990	5.43064e-06	0.999989
PhcycC3H3_A+H	2.75303e-06	0.999993	2.95211e-06	0.999992
PAH3+H	1.70038e-06	0.999994	1.82333e-06	0.999994
rad6	1.44229e-06	0.999996	1.54658e-06	0.999996
rad60syn	6.35563e-07	0.999996	6.81522e-07	0.999996
PAH10+CH3	5.92195e-07	0.999997	6.35018e-07	0.999997
rad50	5.28148e-07	0.999998	5.66340e-07	0.999997
PAH1+H	5.27777e-07	0.999998	5.65942e-07	0.999998
rad70	4.68172e-07	0.999999	5.02026e-07	0.999998
rad60anti	3.53463e-07	0.999999	3.79022e-07	0.999999
rad67	2.86676e-07	0.999999	3.07406e-07	0.999999
rad59	2.38380e-07	0.999999	2.55618e-07	0.999999
rad55	2.28529e-07	1.000000	2.45054e-07	1.000000
rad62	1.23578e-07	1.000000	1.32514e-07	1.000000
rad34	5.38126e-08	1.000000	5.77039e-08	1.000000
rad43	3.25555e-08	1.000000	3.49096e-08	1.000000
rad51	3.01139e-08	1.000000	3.22916e-08	1.000000
rad23	2.57382e-08	1.000000	2.75994e-08	1.000000
rad52	2.00731e-08	1.000000	2.15247e-08	1.000000
rad2	1.58056e-08	1.000000	1.69485e-08	1.000000
rad53	7.16543e-09	1.000000	7.68360e-09	1.000000
rad45	5.82550e-09	1.000000	6.24675e-09	1.000000
rad1	3.03689e-09	1.000000	3.25649e-09	1.000000
rad64	2.79885e-09	1.000000	3.00124e-09	1.000000
rad56	2.33186e-09	1.000000	2.50048e-09	1.000000
rad58	2.16976e-09	1.000000	2.32667e-09	1.000000

rad42	1.71838e-09	1.00000	1.84264e-09	1.00000
rad9	1.57234e-09	1.00000	1.68604e-09	1.00000
rad28	1.41814e-09	1.00000	1.52069e-09	1.00000
rad65	9.56282e-10	1.00000	1.02543e-09	1.00000
rad36	5.44513e-10	1.00000	5.83889e-10	1.00000
rad3	4.42938e-10	1.00000	4.74967e-10	1.00000
rad10	4.15911e-10	1.00000	4.45986e-10	1.00000
rad7	3.45800e-10	1.00000	3.70805e-10	1.00000
rad4	3.25963e-10	1.00000	3.49534e-10	1.00000
rad26	2.79188e-10	1.00000	2.99377e-10	1.00000
rad68syn	2.64140e-10	1.00000	2.83240e-10	1.00000
rad41	2.26230e-10	1.00000	2.42589e-10	1.00000
rad11	1.86180e-10	1.00000	1.99643e-10	1.00000
rad68anti	1.78221e-10	1.00000	1.91108e-10	1.00000
PAH8+H	1.03661e-10	1.00000	1.11156e-10	1.00000
rad13	6.36708e-11	1.00000	6.82749e-11	1.00000
rad21	3.82511e-11	1.00000	4.10172e-11	1.00000
rad71	2.93366e-11	1.00000	3.14580e-11	1.00000
rad40syn	2.88510e-11	1.00000	3.09374e-11	1.00000
rad73	2.80058e-11	1.00000	3.00310e-11	1.00000
rad61	2.71101e-11	1.00000	2.90705e-11	1.00000
rad20	1.66676e-11	1.00000	1.78729e-11	1.00000
rad33	1.28548e-11	1.00000	1.37844e-11	1.00000
rad40anti	1.21646e-11	1.00000	1.30442e-11	1.00000
rad22	5.10691e-12	1.00000	5.47620e-12	1.00000
rad24	1.88243e-12	1.00000	2.01855e-12	1.00000
rad72	8.57666e-13	1.00000	9.19687e-13	1.00000
rad25	5.62412e-13	1.00000	6.03082e-13	1.00000
rad12	5.36006e-13	1.00000	5.74766e-13	1.00000
rad15	3.78128e-13	1.00000	4.05471e-13	1.00000
rad27	1.49548e-13	1.00000	1.60361e-13	1.00000
rad14	1.16555e-13	1.00000	1.24983e-13	1.00000
rad31	4.20166e-14	1.00000	4.50550e-14	1.00000
rad18	5.11510e-15	1.00000	5.48499e-15	1.00000
rad8	1.12184e-17	1.00000	1.20296e-17	1.00000
rad47	2.12914e-18	1.00000	2.28310e-18	1.00000
rad5	7.78176e-19	1.00000	8.34453e-19	1.00000

0.100000000E-01 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.98668e-13 (1.00)	7.19594e-13 (1.00)
Formation of rad11	2.67704e-13 (0.335)	2.29546e-13 (0.319)
Formation of rad6	2.87049e-13 (0.359)	2.46133e-13 (0.342)
H-abstraction	2.43915e-13 (0.305)	2.43915e-13 (0.339)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.305402	0.305402	0.338962	0.338962
Indene+H	0.272127	0.577529	0.302030	0.640991
C2H2+PhCH2	0.159452	0.736981	0.176973	0.817965
Phenyl+Allene	0.0990073	0.835988	0.000000	0.817965
PhCCH+CH3	0.0616198	0.897608	0.0683910	0.886356
PhCHCCH2+H	0.0537593	0.951367	0.0596667	0.946022
PhCH2CCH+H	0.0288969	0.980264	0.0320723	0.978095
Ph+MeAc	0.00817625	0.988440	0.00907467	0.987169
PAH7+H	0.00601180	0.994452	0.00667239	0.993842
PhCCH3+H	0.00364274	0.998095	0.00404303	0.997885
rad39	0.00134895	0.999444	0.00149718	0.999382
rad19anti	0.000230025	0.999674	0.000255302	0.999637
PAH9+H	0.000123702	0.999797	0.000137295	0.999774
rad38	4.77828e-05	0.999845	5.30335e-05	0.999827
rad19syn	4.20371e-05	0.999887	4.66565e-05	0.999874
rad30	3.74823e-05	0.999925	4.16011e-05	0.999916
rad35	2.54638e-05	0.999950	2.82618e-05	0.999944
rad54	1.25292e-05	0.999963	1.39061e-05	0.999958
rad37	9.28205e-06	0.999972	1.03020e-05	0.999968
rad46	8.48993e-06	0.999981	9.42284e-06	0.999978
PhcycC3H3_A+H	7.44283e-06	0.999988	8.26073e-06	0.999986
PAH3+H	3.05847e-06	0.999991	3.39455e-06	0.999989
PAH1+H	1.42914e-06	0.999992	1.58618e-06	0.999991
rad50	1.24803e-06	0.999994	1.38517e-06	0.999992
PAH10+CH3	1.21337e-06	0.999995	1.34670e-06	0.999994
rad70	1.14131e-06	0.999996	1.26673e-06	0.999995
rad60syn	8.97094e-07	0.999997	9.95669e-07	0.999996
rad67	7.32912e-07	0.999998	8.13447e-07	0.999997
rad55	5.71763e-07	0.999998	6.34592e-07	0.999997
rad60anti	5.08253e-07	0.999999	5.64103e-07	0.999998
rad59	4.08649e-07	0.999999	4.53554e-07	0.999998

rad6	3.18766e-07	0.999999	3.53795e-07	0.999999
rad62	2.36338e-07	1.000000	2.62309e-07	0.999999
rad34	1.49947e-07	1.000000	1.66424e-07	0.999999
rad51	9.30053e-08	1.000000	1.03225e-07	0.999999
rad52	5.47356e-08	1.000000	6.07503e-08	0.999999
rad43	4.82938e-08	1.000000	5.36006e-08	0.999999
rad53	2.66803e-08	1.000000	2.96121e-08	0.999999
rad23	1.21228e-08	1.000000	1.34550e-08	0.999999
rad56	1.08966e-08	1.000000	1.20940e-08	0.999999
rad64	9.68749e-09	1.000000	1.07520e-08	0.999999
rad58	5.61476e-09	1.000000	6.23174e-09	0.999999
rad42	4.47926e-09	1.000000	4.97147e-09	0.999999
rad2	3.61309e-09	1.000000	4.01012e-09	0.999999
rad45	3.11076e-09	1.000000	3.45258e-09	0.999999
rad65	2.95042e-09	1.000000	3.27463e-09	0.999999
rad9	1.80766e-09	1.000000	2.00630e-09	0.999999
rad68syn	1.19353e-09	1.000000	1.32468e-09	0.999999
rad68anti	8.00295e-10	1.000000	8.88231e-10	0.999999
rad1	7.71643e-10	1.000000	8.56435e-10	0.999999
PAH8+H	6.70685e-10	1.000000	7.44382e-10	0.999999
rad41	4.94771e-10	1.000000	5.49140e-10	0.999999
rad28	3.42951e-10	1.000000	3.80636e-10	0.999999
rad36	2.94006e-10	1.000000	3.26314e-10	0.999999
rad13	2.50303e-10	1.000000	2.77808e-10	0.999999
rad11	2.41045e-10	1.000000	2.67533e-10	0.999999
rad40syn	1.61087e-10	1.000000	1.78788e-10	0.999999
rad7	1.51502e-10	1.000000	1.68150e-10	0.999999
rad3	1.43870e-10	1.000000	1.59680e-10	0.999999
rad10	1.29124e-10	1.000000	1.43312e-10	0.999999
rad61	1.14265e-10	1.000000	1.26822e-10	0.999999
rad4	1.09979e-10	1.000000	1.22064e-10	0.999999
rad21	9.57420e-11	1.000000	1.06263e-10	0.999999
rad73	8.15479e-11	1.000000	9.05094e-11	0.999999
rad40anti	7.15853e-11	1.000000	7.94515e-11	0.999999
rad26	6.92777e-11	1.000000	7.68907e-11	0.999999
rad71	5.32571e-11	1.000000	5.91094e-11	0.999999
rad20	4.66280e-11	1.000000	5.17518e-11	0.999999
rad33	2.70824e-11	1.000000	3.00585e-11	0.999999
rad22	2.76175e-12	1.000000	3.06524e-12	0.999999
rad24	2.48819e-12	1.000000	2.76161e-12	0.999999
rad25	1.49746e-12	1.000000	1.66202e-12	0.999999
rad12	9.30240e-13	1.000000	1.03246e-12	0.999999
rad72	6.90089e-13	1.000000	7.65919e-13	0.999999
rad15	4.70387e-13	1.000000	5.22076e-13	0.999999
rad14	1.93789e-13	1.000000	2.15084e-13	0.999999
rad27	1.91491e-13	1.000000	2.12534e-13	0.999999
rad18	5.14110e-14	1.000000	5.70604e-14	0.999999
rad31	2.32738e-14	1.000000	2.58312e-14	0.999999
rad8	3.75840e-16	1.000000	4.17140e-16	0.999999
rad47	6.67381e-18	1.000000	7.40720e-18	0.999999
rad5	1.01204e-18	1.000000	1.12325e-18	0.999999

0.100000000E-01 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22919e-12 (1.00)	1.06688e-12 (1.00)
Formation of rad11	3.87976e-13 (0.316)	3.11712e-13 (0.292)
Formation of rad6	4.37724e-13 (0.356)	3.51681e-13 (0.330)
H-abstraction	4.03491e-13 (0.328)	4.03491e-13 (0.378)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.328257	0.328257	0.378196	0.378196
Indene+H	0.214715	0.542972	0.247379	0.625575
C2H2+PhCH2	0.146502	0.689473	0.168789	0.794364
Phenyl+Allene	0.132044	0.821517	0.000000	0.794364
PhCHCCH2+H	0.0609573	0.882475	0.0702309	0.864595
PhCCH+CH3	0.0572443	0.939719	0.0659529	0.930548
PhCH2CCH+H	0.0407440	0.980463	0.0469424	0.977490
Ph+MeAc	0.00763489	0.988098	0.00879642	0.986286
PAH7+H	0.00694716	0.995045	0.00800405	0.994290
PhCCCH3+H	0.00267732	0.997722	0.00308463	0.997375
rad39	0.00150224	0.999225	0.00173077	0.999106
rad19anti	0.000315220	0.999540	0.000363175	0.999469
PAH9+H	0.000164390	0.999704	0.000189398	0.999658
rad19syn	7.45655e-05	0.999779	8.59091e-05	0.999744
rad38	6.50379e-05	0.999844	7.49324e-05	0.999819
rad30	3.82331e-05	0.999882	4.40496e-05	0.999863
rad35	3.25611e-05	0.999915	3.75147e-05	0.999901

rad54	2.39077e-05	0.999938	2.75448e-05	0.999928
PhcycC3H3_A+H	1.67306e-05	0.999955	1.92759e-05	0.999948
rad46	1.28379e-05	0.999968	1.47909e-05	0.999962
rad37	1.03715e-05	0.999978	1.19494e-05	0.999974
PAH3+H	4.83977e-06	0.999983	5.57606e-06	0.999980
PAH1+H	3.16888e-06	0.999986	3.65097e-06	0.999984
rad50	2.53576e-06	0.999989	2.92154e-06	0.999987
rad70	2.31280e-06	0.999991	2.66464e-06	0.999989
PAH10+CH3	2.25120e-06	0.999993	2.59369e-06	0.999992
rad67	1.57919e-06	0.999995	1.81943e-06	0.999994
rad55	1.19783e-06	0.999996	1.38006e-06	0.999995
rad60syn	1.15117e-06	0.999997	1.32630e-06	0.999996
rad60anti	6.62627e-07	0.999998	7.63433e-07	0.999997
rad59	6.18408e-07	0.999999	7.12488e-07	0.999998
rad62	3.93252e-07	0.999999	4.53078e-07	0.999998
rad34	3.40146e-07	0.999999	3.91892e-07	0.999999
rad51	2.38612e-07	1.000000	2.74912e-07	0.999999
rad52	1.25520e-07	1.000000	1.44615e-07	0.999999
rad6	9.73684e-08	1.000000	1.12182e-07	0.999999
rad53	7.80404e-08	1.000000	8.99129e-08	0.999999
rad43	6.37370e-08	1.000000	7.34332e-08	0.999999
rad56	3.84100e-08	1.000000	4.42533e-08	0.999999
rad64	2.61430e-08	1.000000	3.01201e-08	0.999999
rad58	1.20351e-08	1.000000	1.38660e-08	0.999999
rad42	9.67471e-09	1.000000	1.11465e-08	0.999999
rad65	7.51102e-09	1.000000	8.65365e-09	0.999999
rad23	5.99409e-09	1.000000	6.90601e-09	0.999999
rad68syn	4.04358e-09	1.000000	4.65874e-09	0.999999
PAH8+H	3.08765e-09	1.000000	3.55737e-09	0.999999
rad68anti	2.69717e-09	1.000000	3.10750e-09	0.999999
rad45	1.67275e-09	1.000000	1.92723e-09	0.999999
rad9	1.42291e-09	1.000000	1.63937e-09	0.999999
rad2	9.56931e-10	1.000000	1.10251e-09	0.999999
rad41	9.10520e-10	1.000000	1.04904e-09	0.999999
rad11	6.99016e-10	1.000000	8.05361e-10	0.999999
rad40syn	6.53882e-10	1.000000	7.53360e-10	0.999999
rad13	5.60036e-10	1.000000	6.45234e-10	1.000000
rad61	3.79504e-10	1.000000	4.37238e-10	1.000000
rad73	3.44626e-10	1.000000	3.97054e-10	1.000000
rad40anti	3.05578e-10	1.000000	3.52066e-10	1.000000
rad71	2.20702e-10	1.000000	2.54278e-10	1.000000
rad1	2.18525e-10	1.000000	2.51769e-10	1.000000
rad7	2.10626e-10	1.000000	2.42668e-10	1.000000
rad36	1.59294e-10	1.000000	1.83528e-10	1.000000
rad28	1.14793e-10	1.000000	1.32257e-10	1.000000
rad21	1.12755e-10	1.000000	1.29908e-10	1.000000
rad10	6.15025e-11	1.000000	7.08590e-11	1.000000
rad20	5.73150e-11	1.000000	6.60344e-11	1.000000
rad3	5.28314e-11	1.000000	6.08688e-11	1.000000
rad4	4.12341e-11	1.000000	4.75071e-11	1.000000
rad33	2.98808e-11	1.000000	3.44266e-11	1.000000
rad26	2.37197e-11	1.000000	2.73282e-11	1.000000
rad25	2.72965e-12	1.000000	3.14492e-12	1.000000
rad24	2.16992e-12	1.000000	2.50004e-12	1.000000
rad22	1.63540e-12	1.000000	1.88419e-12	1.000000
rad72	1.44642e-12	1.000000	1.66647e-12	1.000000
rad12	1.06581e-12	1.000000	1.22796e-12	1.000000
rad15	4.66695e-13	1.000000	5.37695e-13	1.000000
rad18	4.10243e-13	1.000000	4.72653e-13	1.000000
rad14	2.60889e-13	1.000000	3.00579e-13	1.000000
rad27	1.68544e-13	1.000000	1.94185e-13	1.000000
rad31	1.37123e-14	1.000000	1.57984e-14	1.000000
rad8	2.31132e-15	1.000000	2.66294e-15	1.000000
rad47	1.74620e-17	1.000000	2.01185e-17	1.000000
rad5	1.93078e-18	1.000000	2.22452e-18	1.000000

0.100000000E-01 Pa, 1200.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.80237e-12	(1.00)	1.50733e-12	(1.00)
Formation of rad11	5.38789e-13	(0.299)	4.03336e-13	(0.268)
Formation of rad6	6.34764e-13	(0.352)	4.75183e-13	(0.315)
H-abstraction	6.28816e-13	(0.349)	6.28816e-13	(0.417)
species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.417171	0.417171
Indene+H	0.168225	0.517108	0.201152	0.618323
Phenyl+Allene	0.163693	0.680800	0.000000	0.618323

C2H2+PhCH2	0.129445	0.810245	0.154781	0.773104
PhCHCCH2+H	0.0661470	0.876392	0.0790946	0.852199
PhCH2CCH+H	0.0526489	0.929041	0.0629537	0.915152
PhCCH+CH3	0.0518207	0.980862	0.0619635	0.977116
PAH7+H	0.00758538	0.988447	0.00907010	0.986186
Ph+MeAc	0.00700420	0.995451	0.00837514	0.994561
PhCCCH3+H	0.00195097	0.997402	0.00233284	0.996894
rad39	0.00157581	0.998978	0.00188425	0.998778
rad19anti	0.000399580	0.999377	0.000477791	0.999256
PAH9+H	0.000204704	0.999582	0.000244771	0.999501
rad19syn	0.000118863	0.999701	0.000142129	0.999643
rad38	8.27693e-05	0.999784	9.89696e-05	0.999742
rad54	4.05005e-05	0.999824	4.84278e-05	0.999790
rad35	3.92972e-05	0.999864	4.69889e-05	0.999837
rad30	3.73116e-05	0.999901	4.46147e-05	0.999882
PhcycC3H3_A+H	3.27087e-05	0.999934	3.91108e-05	0.999921
rad46	1.78873e-05	0.999952	2.13884e-05	0.999942
rad37	1.16239e-05	0.999963	1.38991e-05	0.999956
PAH3+H	6.95972e-06	0.999970	8.32193e-06	0.999965
PAH1+H	6.04573e-06	0.999976	7.22906e-06	0.999972
rad50	4.57163e-06	0.999981	5.46645e-06	0.999977
rad70	4.07151e-06	0.999985	4.86843e-06	0.999982
PAH10+CH3	3.83960e-06	0.999989	4.59113e-06	0.999987
rad67	2.96801e-06	0.999992	3.54895e-06	0.999990
rad55	2.19501e-06	0.999994	2.62464e-06	0.999993
rad60syn	1.37645e-06	0.999995	1.64587e-06	0.999995
rad59	8.52872e-07	0.999996	1.01981e-06	0.999996
rad60anti	8.03342e-07	0.999997	9.60578e-07	0.999996
rad34	6.59901e-07	0.999997	7.89063e-07	0.999997
rad62	5.91359e-07	0.999998	7.07106e-07	0.999998
rad51	5.25840e-07	0.999999	6.28762e-07	0.999999
rad52	2.50742e-07	0.999999	2.99821e-07	0.999999
rad53	1.90239e-07	0.999999	2.27475e-07	0.999999
rad56	1.09449e-07	0.999999	1.30871e-07	0.999999
rad43	7.76177e-08	0.999999	9.28097e-08	0.999999
rad64	5.85551e-08	0.999999	7.00164e-08	0.999999
rad6	4.43854e-08	0.999999	5.30731e-08	0.999999
rad58	2.24149e-08	0.999999	2.68022e-08	1.000000
rad42	1.82035e-08	0.999999	2.17665e-08	1.000000
rad65	1.63738e-08	0.999999	1.95786e-08	1.000000
rad68syn	1.10176e-08	0.999999	1.31740e-08	1.000000
PAH8+H	1.09228e-08	0.999999	1.30607e-08	1.000000
rad68anti	7.31621e-09	0.999999	8.74827e-09	1.000000
rad23	3.08310e-09	0.999999	3.68657e-09	1.000000
rad40syn	2.07796e-09	0.999999	2.48469e-09	1.000000
rad11	1.60893e-09	0.999999	1.92385e-09	1.000000
rad41	1.48033e-09	0.999999	1.77008e-09	1.000000
rad73	1.27026e-09	0.999999	1.51889e-09	1.000000
rad61	1.03678e-09	0.999999	1.23971e-09	1.000000
rad40anti	1.01431e-09	0.999999	1.21284e-09	1.000000
rad9	1.01164e-09	0.999999	1.20965e-09	1.000000
rad71	9.22854e-10	0.999999	1.10349e-09	1.000000
rad45	9.07104e-10	0.999999	1.08466e-09	1.000000
rad13	6.48663e-10	0.999999	7.75629e-10	1.000000
rad7	5.75004e-10	0.999999	6.87552e-10	1.000000
rad2	2.82032e-10	0.999999	3.37235e-10	1.000000
rad21	8.79223e-11	0.999999	1.05131e-10	1.000000
rad36	8.70856e-11	0.999999	1.04131e-10	1.000000
rad1	6.68163e-11	0.999999	7.98948e-11	1.000000
rad28	5.61122e-11	0.999999	6.70953e-11	1.000000
rad10	4.36054e-11	0.999999	5.21405e-11	1.000000
rad20	4.28536e-11	0.999999	5.12415e-11	1.000000
rad33	2.25928e-11	0.999999	2.70151e-11	1.000000
rad3	2.10668e-11	0.999999	2.51903e-11	1.000000
rad4	1.66420e-11	0.999999	1.98993e-11	1.000000
rad26	1.12245e-11	0.999999	1.34216e-11	1.000000
rad72	7.27265e-12	0.999999	8.69616e-12	1.000000
rad25	3.12116e-12	0.999999	3.73208e-12	1.000000
rad24	1.65804e-12	0.999999	1.98258e-12	1.000000
rad18	1.65625e-12	0.999999	1.98042e-12	1.000000
rad12	1.03522e-12	0.999999	1.23785e-12	1.000000
rad22	1.01577e-12	0.999999	1.21459e-12	1.000000
rad15	4.83296e-13	0.999999	5.77893e-13	1.000000
rad14	2.44721e-13	0.999999	2.92620e-13	1.000000
rad27	1.01470e-13	0.999999	1.21331e-13	1.000000
rad31	8.42090e-15	0.999999	1.00692e-14	1.000000
rad8	5.36822e-15	0.999999	6.41893e-15	1.000000
rad47	3.90121e-17	0.999999	4.66481e-17	1.000000
rad5	5.04989e-18	0.999999	6.03834e-18	1.000000

0.100000000E-01 Pa, 1300.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.54148e-12	(1.00)	2.05338e-12	(1.00)
Formation of rad11	7.22991e-13	(0.284)	5.03422e-13	(0.245)
Formation of rad6	8.84215e-13	(0.348)	6.15682e-13	(0.300)
H-abstraction	9.34273e-13	(0.368)	9.34273e-13	(0.455)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.367610	0.367610	0.454993	0.454993
Phenyl+Allene	0.192054	0.559664	0.000000	0.454993
Indene+H	0.131421	0.691086	0.162662	0.617655
C2H2+PhCH2	0.111295	0.802381	0.137750	0.755405
PhCHCCH2+H	0.0692296	0.871610	0.0856859	0.841091
PhCH2CCH+H	0.0636260	0.935236	0.0787507	0.919842
PhCCH+CH3	0.0461559	0.981392	0.0571276	0.976970
PAH7+H	0.00794566	0.989338	0.00983443	0.986804
Ph+MeAc	0.00637082	0.995709	0.00788521	0.994689
rad39	0.00158196	0.997291	0.00195800	0.996647
PhCCCH3+H	0.00142376	0.998714	0.00176219	0.998409
rad19anti	0.000475489	0.999190	0.000588514	0.998998
PAH9+H	0.000242133	0.999432	0.000299689	0.999298
rad19syn	0.000174660	0.999607	0.000216178	0.999514
rad38	9.98866e-05	0.999707	0.000123630	0.999637
rad54	6.26274e-05	0.999769	7.75141e-05	0.999715
PhcycC3H3_A+H	5.74351e-05	0.999827	7.10879e-05	0.999786
rad35	4.53517e-05	0.999872	5.61324e-05	0.999842
rad30	3.53184e-05	0.999907	4.37138e-05	0.999886
rad46	2.33613e-05	0.999931	2.89145e-05	0.999915
rad37	1.29873e-05	0.999944	1.60744e-05	0.999931
PAH1+H	1.02825e-05	0.999954	1.27267e-05	0.999944
PAH3+H	9.32004e-06	0.999963	1.15354e-05	0.999955
rad50	7.49604e-06	0.999971	9.27792e-06	0.999964
rad70	6.43021e-06	0.999977	7.95868e-06	0.999972
PAH10+CH3	6.07788e-06	0.999983	7.52262e-06	0.999980
rad67	4.99570e-06	0.999988	6.18321e-06	0.999986
rad55	3.63003e-06	0.999992	4.49291e-06	0.999991
rad60syn	1.56340e-06	0.999993	1.93503e-06	0.999993
rad34	1.13462e-06	0.999995	1.40433e-06	0.999994
rad59	1.09806e-06	0.999996	1.35907e-06	0.999995
rad51	1.02628e-06	0.999997	1.27023e-06	0.999997
rad60anti	9.23688e-07	0.999998	1.14325e-06	0.999998
rad62	8.25901e-07	0.999998	1.02222e-06	0.999999
rad52	4.48921e-07	0.999999	5.55634e-07	0.999999
rad53	4.02868e-07	0.999999	4.98633e-07	1.000000
rad56	2.64599e-07	1.000000	3.27496e-07	1.000000
rad64	1.13756e-07	1.000000	1.40796e-07	1.000000
rad43	8.95932e-08	1.000000	1.10890e-07	1.000000
rad58	3.75499e-08	1.000000	4.64757e-08	1.000000
rad65	3.15620e-08	1.000000	3.90645e-08	1.000000
PAH8+H	3.15023e-08	1.000000	3.89906e-08	1.000000
rad42	3.09038e-08	1.000000	3.82498e-08	1.000000
rad6	2.95006e-08	1.000000	3.65132e-08	1.000000
rad68syn	2.53722e-08	1.000000	3.14033e-08	1.000000
rad68anti	1.67834e-08	1.000000	2.07729e-08	1.000000
rad40syn	5.46374e-09	1.000000	6.76250e-09	1.000000
rad73	3.89181e-09	1.000000	4.81692e-09	1.000000
rad71	3.20537e-09	1.000000	3.96730e-09	1.000000
rad40anti	2.76934e-09	1.000000	3.42763e-09	1.000000
rad61	2.41932e-09	1.000000	2.99441e-09	1.000000
rad11	2.21522e-09	1.000000	2.74180e-09	1.000000
rad41	2.20459e-09	1.000000	2.72864e-09	1.000000
rad23	1.65476e-09	1.000000	2.04811e-09	1.000000
rad7	1.19159e-09	1.000000	1.47485e-09	1.000000
rad9	6.84524e-10	1.000000	8.47240e-10	1.000000
rad45	4.97819e-10	1.000000	6.16152e-10	1.000000
rad13	4.92756e-10	1.000000	6.09890e-10	1.000000
rad2	9.00821e-11	1.000000	1.11495e-10	1.000000
rad21	5.91400e-11	1.000000	7.31982e-11	1.000000
rad36	4.82276e-11	1.000000	5.96918e-11	1.000000
rad28	4.03296e-11	1.000000	4.99162e-11	1.000000
rad72	3.40642e-11	1.000000	4.21615e-11	1.000000
rad10	3.31343e-11	1.000000	4.10106e-11	1.000000
rad20	2.63414e-11	1.000000	3.26030e-11	1.000000
rad1	2.18145e-11	1.000000	2.70000e-11	1.000000
rad33	1.50432e-11	1.000000	1.86191e-11	1.000000
rad3	8.94674e-12	1.000000	1.10734e-11	1.000000
rad4	7.12640e-12	1.000000	8.82039e-12	1.000000

rad26	7.02560e-12	1.000000	8.69558e-12	1.00000
rad18	3.09752e-12	1.000000	3.83382e-12	1.00000
rad25	2.61863e-12	1.000000	3.24110e-12	1.00000
rad24	1.21062e-12	1.000000	1.49839e-12	1.00000
rad12	9.25073e-13	1.000000	1.14497e-12	1.00000
rad15	8.63794e-13	1.000000	1.06912e-12	1.00000
rad22	6.87876e-13	1.000000	8.51387e-13	1.00000
rad14	1.73886e-13	1.000000	2.15219e-13	1.00000
rad27	4.97814e-14	1.000000	6.16146e-14	1.00000
rad8	7.86598e-15	1.000000	9.73578e-15	1.00000
rad31	5.35145e-15	1.000000	6.62352e-15	1.00000
rad47	7.66963e-17	1.000000	9.49276e-17	1.00000
rad5	1.57322e-17	1.000000	1.94718e-17	1.00000

0.100000000E-01 Pa, 1400.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.47024e-12	(1.00)	2.71984e-12	(1.00)
Formation of rad11	9.43269e-13	(0.272)	6.11768e-13	(0.225)
Formation of rad6	1.19194e-12	(0.343)	7.73043e-13	(0.284)
H-abstraction	1.33503e-12	(0.385)	1.33503e-12	(0.491)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.490849	0.490849
Phenyl+Allene	0.216237	0.600946	0.00000	0.490849
Indene+H	0.102753	0.703699	0.131102	0.621951
C2H2+PhCH2	0.0940337	0.797733	0.119977	0.741928
PhCH2CCH+H	0.0730480	0.870781	0.0932017	0.835129
PhCHCCH2+H	0.0704361	0.941217	0.0898693	0.924998
PhCCH+CH3	0.0407709	0.981988	0.0520195	0.977018
PAH7+H	0.00808062	0.990068	0.0103100	0.987328
Ph+MeAc	0.00578254	0.995851	0.00737791	0.994706
rad39	0.00153900	0.997390	0.00196361	0.996669
PhCCCH3+H	0.00104907	0.998439	0.00133851	0.998008
rad19anti	0.000537563	0.998977	0.000685873	0.998694
PAH9+H	0.000275093	0.999252	0.000350990	0.999045
rad19syn	0.000241019	0.999493	0.000307516	0.999352
rad38	0.000115616	0.999608	0.000147514	0.999500
PhcycC3H3_A+H	9.27188e-05	0.999701	0.000118299	0.999618
rad54	9.02066e-05	0.999791	0.000115094	0.999733
rad35	5.05798e-05	0.999842	6.45344e-05	0.999798
rad30	3.27889e-05	0.999875	4.18352e-05	0.999840
rad46	2.89890e-05	0.999904	3.69870e-05	0.999877
PAH1+H	1.59963e-05	0.999920	2.04097e-05	0.999897
rad37	1.43563e-05	0.999934	1.83172e-05	0.999915
PAH3+H	1.18378e-05	0.999946	1.51038e-05	0.999930
rad50	1.13925e-05	0.999957	1.45357e-05	0.999945
rad70	9.33021e-06	0.999967	1.19044e-05	0.999957
PAH10+CH3	9.00294e-06	0.999976	1.14868e-05	0.999968
rad67	7.68560e-06	0.999983	9.80600e-06	0.999978
rad55	5.54137e-06	0.999989	7.07023e-06	0.999985
rad51	1.81659e-06	0.999991	2.31777e-06	0.999988
rad34	1.77488e-06	0.999992	2.26457e-06	0.999990
rad60syn	1.71203e-06	0.999994	2.18438e-06	0.999992
rad59	1.34390e-06	0.999995	1.71468e-06	0.999994
rad62	1.09238e-06	0.999997	1.39377e-06	0.999995
rad60anti	1.02264e-06	0.999998	1.30479e-06	0.999996
rad53	7.63459e-07	0.999998	9.74098e-07	0.999997
rad52	7.36202e-07	0.999999	9.39313e-07	0.999998
rad56	5.61677e-07	1.000000	7.16641e-07	0.999999
rad64	1.97836e-07	1.000000	2.52418e-07	0.999999
rad43	1.00004e-07	1.000000	1.27595e-07	0.999999
PAH8+H	7.73009e-08	1.000000	9.86282e-08	1.000000
rad58	5.80226e-08	1.000000	7.40306e-08	1.000000
rad65	5.51365e-08	1.000000	7.03484e-08	1.000000
rad68syn	5.11875e-08	1.000000	6.53098e-08	1.000000
rad42	4.85215e-08	1.000000	6.19082e-08	1.000000
rad68anti	3.37456e-08	1.000000	4.30559e-08	1.000000
rad6	2.62973e-08	1.000000	3.35526e-08	1.000000
rad40syn	1.23712e-08	1.000000	1.57843e-08	1.000000
rad73	1.01781e-08	1.000000	1.29862e-08	1.000000
rad71	9.36374e-09	1.000000	1.19472e-08	1.000000
rad40anti	6.47926e-09	1.000000	8.26688e-09	1.000000
rad61	4.96372e-09	1.000000	6.33318e-09	1.000000
rad41	3.08785e-09	1.000000	3.93978e-09	1.000000
rad11	1.97211e-09	1.000000	2.51621e-09	1.000000
rad7	1.50203e-09	1.000000	1.91643e-09	1.000000
rad23	9.26782e-10	1.000000	1.18247e-09	1.000000

rad9	4.49498e-10	1.00000	5.73513e-10	1.000000
rad13	3.14183e-10	1.00000	4.00865e-10	1.000000
rad45	2.77398e-10	1.00000	3.53931e-10	1.000000
rad72	1.29482e-10	1.00000	1.65206e-10	1.000000
rad28	4.04019e-11	1.00000	5.15485e-11	1.000000
rad21	3.81092e-11	1.00000	4.86234e-11	1.000000
rad2	3.09073e-11	1.00000	3.94345e-11	1.000000
rad36	2.71318e-11	1.00000	3.46174e-11	1.000000
rad10	2.06067e-11	1.00000	2.62920e-11	1.000000
rad20	1.53081e-11	1.00000	1.95316e-11	1.000000
rad33	9.75882e-12	1.00000	1.24512e-11	1.000000
rad1	7.59238e-12	1.00000	9.68706e-12	1.000000
rad26	5.27495e-12	1.00000	6.73032e-12	1.000000
rad3	4.01235e-12	1.00000	5.11936e-12	1.000000
rad4	3.21637e-12	1.00000	4.10375e-12	1.000000
rad18	3.18931e-12	1.00000	4.06923e-12	1.000000
rad15	1.98949e-12	1.00000	2.53839e-12	1.000000
rad25	1.93951e-12	1.00000	2.47462e-12	1.000000
rad24	8.67714e-13	1.00000	1.10711e-12	1.000000
rad12	7.86890e-13	1.00000	1.00399e-12	1.000000
rad22	7.49744e-13	1.00000	9.56598e-13	1.000000
rad14	1.10932e-13	1.00000	1.41538e-13	1.000000
rad27	2.36280e-14	1.00000	3.01469e-14	1.000000
rad8	9.26468e-15	1.00000	1.18208e-14	1.000000
rad31	3.51121e-15	1.00000	4.47994e-15	1.000000
rad47	1.36058e-16	1.00000	1.73596e-16	1.000000
rad5	4.89177e-17	1.00000	6.24138e-17	1.000000

0.100000000E-01 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.61271e-12 (1.00)	3.52361e-12 (1.00)
Formation of rad11	1.20217e-12 (0.261)	7.28782e-13 (0.207)
Formation of rad6	1.56360e-12 (0.339)	9.47887e-13 (0.269)
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.524)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.524162	0.524162
Phenyl+Allene	0.236109	0.636511	0.000000	0.524162
Indene+H	0.0806435	0.717155	0.105570	0.629731
PhCH2CCH+H	0.0806387	0.797793	0.105563	0.735294
C2H2+PhCH2	0.0787062	0.876500	0.103033	0.838328
PhCHCCH2+H	0.0701571	0.946657	0.0918421	0.930170
PhCCH+CH3	0.0359368	0.982594	0.0470444	0.977214
PAH7+H	0.00805110	0.990645	0.0105396	0.987754
Ph+MeAc	0.00526035	0.995905	0.00688624	0.994640
rad39	0.00146497	0.997370	0.00191777	0.996558
PhCCCH3+H	0.000785539	0.998156	0.00102834	0.997586
rad19anti	0.000582991	0.998739	0.000763188	0.998349
rad19syn	0.000316567	0.999055	0.000414414	0.998764
PAH9+H	0.000302845	0.999358	0.000396451	0.999160
PhcycC3H3_A+H	0.000139913	0.999498	0.000183158	0.999343
rad38	0.000129499	0.999627	0.000169526	0.999513
rad54	0.000122809	0.999750	0.000160767	0.999674
rad35	5.49599e-05	0.999805	7.19472e-05	0.999746
rad46	3.45380e-05	0.999840	4.52133e-05	0.999791
rad30	3.01155e-05	0.999870	3.94239e-05	0.999830
PAH1+H	2.31902e-05	0.999893	3.03579e-05	0.999861
rad50	1.62766e-05	0.999909	2.13075e-05	0.999882
rad37	1.56192e-05	0.999925	2.04470e-05	0.999902
PAH3+H	1.44553e-05	0.999939	1.89232e-05	0.999921
rad70	1.26613e-05	0.999952	1.65747e-05	0.999938
PAH10+CH3	1.25752e-05	0.999965	1.64621e-05	0.999954
rad67	1.09793e-05	0.999976	1.43728e-05	0.999969
rad55	7.93592e-06	0.999983	1.03888e-05	0.999979
rad51	2.96751e-06	0.999986	3.88473e-06	0.999983
rad34	2.57549e-06	0.999989	3.37154e-06	0.999986
rad60syn	1.82792e-06	0.999991	2.39290e-06	0.999989
rad59	1.58467e-06	0.999992	2.07447e-06	0.999991
rad62	1.38707e-06	0.999994	1.81579e-06	0.999993
rad53	1.32205e-06	0.999995	1.73067e-06	0.999994
rad52	1.12379e-06	0.999996	1.47114e-06	0.999996
rad60anti	1.10268e-06	0.999997	1.44350e-06	0.999997
rad56	1.07223e-06	0.999998	1.40364e-06	0.999999
rad64	3.15087e-07	0.999999	4.12476e-07	0.999999
PAH8+H	1.66252e-07	0.999999	2.17639e-07	0.999999
rad43	1.09523e-07	0.999999	1.43376e-07	0.999999
rad68syn	9.28291e-08	0.999999	1.21522e-07	0.999999

rad65	8.88730e-08	0.999999	1.16343e-07	1.000000
rad58	8.42069e-08	0.999999	1.10234e-07	1.000000
rad42	7.16663e-08	0.999999	9.38173e-08	1.000000
rad68anti	6.10163e-08	0.999999	7.98757e-08	1.000000
rad6	2.83819e-08	0.999999	3.71544e-08	1.000000
rad40syn	2.48114e-08	0.999999	3.24802e-08	1.000000
rad71	2.35649e-08	0.999999	3.08485e-08	1.000000
rad73	2.32868e-08	0.999999	3.04844e-08	1.000000
rad40anti	1.33700e-08	1.000000	1.75025e-08	1.000000
rad61	9.14968e-09	1.000000	1.19778e-08	1.000000
rad41	4.14357e-09	1.000000	5.42432e-09	1.000000
rad11	1.37922e-09	1.000000	1.80553e-09	1.000000
rad7	1.28899e-09	1.000000	1.68740e-09	1.000000
rad23	5.37943e-10	1.000000	7.04212e-10	1.000000
rad72	4.05255e-10	1.000000	5.30512e-10	1.000000
rad9	2.90611e-10	1.000000	3.80435e-10	1.000000
rad13	1.90074e-10	1.000000	2.48823e-10	1.000000
rad45	1.57343e-10	1.000000	2.05976e-10	1.000000
rad28	4.96607e-11	1.000000	6.50100e-11	1.000000
rad21	2.42968e-11	1.000000	3.18067e-11	1.000000
rad36	1.55384e-11	1.000000	2.03411e-11	1.000000
rad2	1.13929e-11	1.000000	1.49143e-11	1.000000
rad10	1.05241e-11	1.000000	1.37770e-11	1.000000
rad20	8.79388e-12	1.000000	1.15119e-11	1.000000
rad33	6.33643e-12	1.000000	8.29496e-12	1.000000
rad26	4.19697e-12	1.000000	5.49417e-12	1.000000
rad15	3.09955e-12	1.000000	4.05758e-12	1.000000
rad1	2.82315e-12	1.000000	3.69575e-12	1.000000
rad18	2.35399e-12	1.000000	3.08158e-12	1.000000
rad3	1.89258e-12	1.000000	2.47755e-12	1.000000
rad22	1.84356e-12	1.000000	2.41338e-12	1.000000
rad4	1.52465e-12	1.000000	1.99589e-12	1.000000
rad25	1.37836e-12	1.000000	1.80439e-12	1.000000
rad12	6.49256e-13	1.000000	8.49933e-13	1.000000
rad24	6.18581e-13	1.000000	8.09782e-13	1.000000
rad14	6.99401e-14	1.000000	9.15575e-14	1.000000
rad27	1.16036e-14	1.000000	1.51901e-14	1.000000
rad8	9.76883e-15	1.000000	1.27883e-14	1.000000
rad31	2.37700e-15	1.000000	3.11171e-15	1.000000
rad47	2.21854e-16	1.000000	2.90426e-16	1.000000
rad5	1.28964e-16	1.000000	1.68825e-16	1.000000

0.100000000E-01 Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.27400e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.05237e-12 (0.168)
Formation of rad6	2.80256e-12 (0.325)	1.44565e-12 (0.230)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.602)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.601845	0.601845
Phenyl+Allene	0.272047	0.710162	0.000000	0.601845
PhCH2CCH+H	0.0933387	0.803501	0.128221	0.730066
PhCHCCH2+H	0.0656327	0.869134	0.0901606	0.820227
C2H2+PhCH2	0.0475978	0.916731	0.0653858	0.885612
Indene+H	0.0395372	0.956269	0.0543127	0.939925
PhCCH+CH3	0.0276514	0.983920	0.0379853	0.977910
PAH7+H	0.00712605	0.991046	0.00978916	0.987700
Ph+MeAc	0.00488545	0.995931	0.00671122	0.994411
rad39	0.00123375	0.997165	0.00169483	0.996106
rad19anti	0.000564116	0.997729	0.000774933	0.996881
rad19syn	0.000506158	0.998235	0.000695318	0.997576
PhCCCH3+H	0.000461483	0.998697	0.000633946	0.998210
PhcycC3H3_A+H	0.000354596	0.999052	0.000487115	0.998697
PAH9+H	0.000266731	0.999318	0.000366413	0.999063
rad54	0.000215004	0.999533	0.000295354	0.999359
rad38	0.000142764	0.999676	0.000196118	0.999555
rad35	4.88397e-05	0.999725	6.70919e-05	0.999622
PAH1+H	4.24057e-05	0.999767	5.82532e-05	0.999680
rad46	3.79670e-05	0.999805	5.21559e-05	0.999732
rad50	2.38705e-05	0.999829	3.27912e-05	0.999765
rad30	2.30179e-05	0.999852	3.16200e-05	0.999797
PAH10+CH3	2.22275e-05	0.999874	3.05343e-05	0.999827
rad70	2.20506e-05	0.999896	3.02913e-05	0.999858
PAH3+H	2.08053e-05	0.999917	2.85805e-05	0.999886
rad55	1.72026e-05	0.999934	2.36314e-05	0.999910
rad67	1.69163e-05	0.999951	2.32382e-05	0.999933

rad37	1.61425e-05	0.999968	2.21752e-05	0.999955
rad51	6.11275e-06	0.999974	8.39721e-06	0.999964
rad34	5.25680e-06	0.999979	7.22134e-06	0.999971
rad53	4.39528e-06	0.999983	6.03786e-06	0.999977
rad56	3.99316e-06	0.999987	5.48546e-06	0.999982
rad62	2.35599e-06	0.999990	3.23645e-06	0.999986
rad59	2.06482e-06	0.999992	2.83647e-06	0.999988
rad52	2.03185e-06	0.999994	2.79119e-06	0.999991
rad60syn	1.94292e-06	0.999996	2.66902e-06	0.999994
rad60anti	1.30713e-06	0.999997	1.79563e-06	0.999996
rad64	7.88606e-07	0.999998	1.08332e-06	0.999997
PAH8+H	5.90485e-07	0.999998	8.11161e-07	0.999998
rad68syn	2.81743e-07	0.999999	3.87034e-07	0.999998
rad68anti	1.82570e-07	0.999999	2.50799e-07	0.999998
rad65	1.74387e-07	0.999999	2.39558e-07	0.999998
rad42	1.70586e-07	0.999999	2.34336e-07	0.999999
rad58	1.57351e-07	0.999999	2.16156e-07	0.999999
rad43	1.31435e-07	0.999999	1.80554e-07	0.999999
rad71	1.24913e-07	1.000000	1.71595e-07	0.999999
rad73	9.96594e-08	1.000000	1.36904e-07	0.999999
rad40syn	8.39462e-08	1.000000	1.15318e-07	1.000000
rad40anti	5.01027e-08	1.000000	6.88270e-08	1.000000
rad6	3.31481e-08	1.000000	4.55362e-08	1.000000
rad61	2.64240e-08	1.000000	3.62990e-08	1.000000
rad41	7.91865e-09	1.000000	1.08780e-08	1.000000
rad72	3.73632e-09	1.000000	5.13265e-09	1.000000
rad7	2.30636e-10	1.000000	3.16829e-10	1.000000
rad11	1.74522e-10	1.000000	2.39743e-10	1.000000
rad23	8.09267e-11	1.000000	1.11170e-10	1.000000
rad28	7.30266e-11	1.000000	1.00318e-10	1.000000
rad9	2.25920e-11	1.000000	3.10350e-11	1.000000
rad13	1.60925e-11	1.000000	2.21065e-11	1.000000
rad45	1.33216e-11	1.000000	1.83002e-11	1.000000
rad22	8.88436e-12	1.000000	1.22046e-11	1.000000
rad36	2.30141e-12	1.000000	3.16149e-12	1.000000
rad21	1.98018e-12	1.000000	2.72021e-12	1.000000
rad26	1.64249e-12	1.000000	2.25632e-12	1.000000
rad15	1.12185e-12	1.000000	1.54111e-12	1.000000
rad10	8.62202e-13	1.000000	1.18442e-12	1.000000
rad20	6.44707e-13	1.000000	8.85640e-13	1.000000
rad33	5.54027e-13	1.000000	7.61077e-13	1.000000
rad2	3.33362e-13	1.000000	4.57946e-13	1.000000
rad18	2.99941e-13	1.000000	4.12035e-13	1.000000
rad25	1.43078e-13	1.000000	1.96550e-13	1.000000
rad1	8.61067e-14	1.000000	1.18287e-13	1.000000
rad12	7.47128e-14	1.000000	1.02634e-13	1.000000
rad3	6.50905e-14	1.000000	8.94156e-14	1.000000
rad24	6.07027e-14	1.000000	8.33888e-14	1.000000
rad4	4.16767e-14	1.000000	5.72519e-14	1.000000
rad14	7.58719e-15	1.000000	1.04227e-14	1.000000
rad8	2.76592e-15	1.000000	3.79959e-15	1.000000
rad27	6.89585e-16	1.000000	9.47298e-16	1.000000
rad5	5.82310e-16	1.000000	7.99929e-16	1.000000
rad47	1.43465e-16	1.000000	1.97080e-16	1.000000

0.100000000E-01 Pa, 2000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.44111e-11 (1.00)	1.02930e-11 (1.00)
Formation of rad11	3.16882e-12 (0.220)	1.47449e-12 (0.143)
Formation of rad6	4.53302e-12 (0.315)	2.10927e-12 (0.205)
H-abstraction	6.70922e-12 (0.466)	6.70922e-12 (0.652)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.651825	0.651825
Phenyl+Allene	0.285759	0.751319	0.000000	0.651825
PhCH2CCH+H	0.0971788	0.848498	0.136059	0.787884
PhCHCCH2+H	0.0592993	0.907797	0.0830241	0.870908
C2H2+PhCH2	0.0319942	0.939791	0.0447948	0.915703
Indene+H	0.0233046	0.963096	0.0326284	0.948331
PhCCH+CH3	0.0216465	0.984742	0.0303071	0.978638
PAH7+H	0.00659328	0.991335	0.00923114	0.987869
Ph+MeAc	0.00420938	0.995545	0.00589349	0.993763
rad39	0.00101472	0.996559	0.00142069	0.995183
rad19syn	0.000746789	0.997306	0.00104557	0.996229
PhcycC3H3_A+H	0.000656335	0.997963	0.000918925	0.997148
rad19anti	0.000529228	0.998492	0.000740966	0.997889
rad54	0.000330237	0.998822	0.000462359	0.998351

PhCCCH3+H	0.000291962	0.999114	0.000408772	0.998760
PAH9+H	0.000279546	0.999394	0.000391387	0.999151
rad38	0.000156414	0.999550	0.000218994	0.999370
PAH1+H	6.96990e-05	0.999620	9.75848e-05	0.999468
rad35	5.18637e-05	0.999672	7.26137e-05	0.999541
rad46	4.57412e-05	0.999717	6.40416e-05	0.999605
rad50	3.87498e-05	0.999756	5.42530e-05	0.999659
PAH10+CH3	3.34470e-05	0.999790	4.68289e-05	0.999706
rad70	3.20125e-05	0.999822	4.48203e-05	0.999751
rad55	2.86889e-05	0.999850	4.01669e-05	0.999791
PAH3+H	2.79050e-05	0.999878	3.90694e-05	0.999830
rad67	2.51584e-05	0.999903	3.52238e-05	0.999865
rad30	1.88901e-05	0.999922	2.64479e-05	0.999891
rad37	1.66057e-05	0.999939	2.32494e-05	0.999915
rad51	1.22964e-05	0.999951	1.72161e-05	0.999932
rad56	1.03250e-05	0.999961	1.44559e-05	0.999946
rad53	9.90974e-06	0.999971	1.38745e-05	0.999960
rad34	8.56178e-06	0.999980	1.19873e-05	0.999972
rad52	3.64113e-06	0.999984	5.09791e-06	0.999977
rad62	3.41506e-06	0.999987	4.78139e-06	0.999982
rad59	2.58714e-06	0.999990	3.62224e-06	0.999986
rad60syn	2.06844e-06	0.999992	2.89599e-06	0.999989
PAH8+H	1.81456e-06	0.999993	2.54053e-06	0.999991
rad64	1.47576e-06	0.999995	2.06619e-06	0.999993
rad60anti	1.42207e-06	0.999996	1.99102e-06	0.999995
rad68syn	6.53892e-07	0.999997	9.15510e-07	0.999996
rad71	4.98093e-07	0.999997	6.97374e-07	0.999997
rad68anti	4.21792e-07	0.999998	5.90544e-07	0.999997
rad73	3.38757e-07	0.999998	4.74291e-07	0.999998
rad65	3.37787e-07	0.999999	4.72930e-07	0.999998
rad42	3.12139e-07	0.999999	4.37023e-07	0.999999
rad58	2.75720e-07	0.999999	3.86032e-07	0.999999
rad40syn	2.27523e-07	0.999999	3.18552e-07	1.000000
rad43	1.62531e-07	1.000000	2.27558e-07	1.000000
rad40anti	1.42660e-07	1.000000	1.99737e-07	1.000000
rad61	5.98888e-08	1.000000	8.38493e-08	1.000000
rad72	2.09437e-08	1.000000	2.93230e-08	1.000000
rad41	1.34670e-08	1.000000	1.88550e-08	1.000000
rad6	6.32638e-09	1.000000	8.85747e-09	1.000000
rad7	5.26195e-11	1.000000	7.36718e-11	1.000000
rad11	4.13051e-11	1.000000	5.78309e-11	1.000000
rad23	3.69427e-11	1.000000	5.17232e-11	1.000000
rad28	2.12044e-11	1.000000	2.96880e-11	1.000000
rad9	7.68369e-12	1.000000	1.07579e-11	1.000000
rad13	4.89693e-12	1.000000	6.85613e-12	1.000000
rad45	4.04969e-12	1.000000	5.66990e-12	1.000000
rad22	2.70213e-12	1.000000	3.78320e-12	1.000000
rad21	7.16433e-13	1.000000	1.00307e-12	1.000000
rad36	7.15797e-13	1.000000	1.00218e-12	1.000000
rad15	3.98980e-13	1.000000	5.58605e-13	1.000000
rad26	3.31868e-13	1.000000	4.64643e-13	1.000000
rad33	2.26334e-13	1.000000	3.16887e-13	1.000000
rad20	1.89447e-13	1.000000	2.65242e-13	1.000000
rad10	1.21222e-13	1.000000	1.69721e-13	1.000000
rad18	6.66356e-14	1.000000	9.32953e-14	1.000000
rad25	5.79824e-14	1.000000	8.11802e-14	1.000000
rad2	4.33412e-14	1.000000	6.06814e-14	1.000000
rad12	4.14756e-14	1.000000	5.80694e-14	1.000000
rad24	2.85159e-14	1.000000	3.99249e-14	1.000000
rad3	1.64369e-14	1.000000	2.30130e-14	1.000000
rad1	1.15640e-14	1.000000	1.61906e-14	1.000000
rad4	1.04503e-14	1.000000	1.46314e-14	1.000000
rad14	2.92714e-15	1.000000	4.09827e-15	1.000000
rad8	2.34712e-15	1.000000	3.28617e-15	1.000000
rad5	3.82269e-16	1.000000	5.35208e-16	1.000000
rad47	2.86745e-16	1.000000	4.01467e-16	1.000000
rad27	1.90030e-16	1.000000	2.66058e-16	1.000000

0.100000000E-01 Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	2.23655e-11 (1.00)	1.58437e-11 (1.00)		
Formation of rad11	4.62280e-12 (0.207)	1.98925e-12 (0.126)		
Formation of rad6	6.82518e-12 (0.305)	2.93696e-12 (0.185)		
H-abstraction	1.09175e-11 (0.488)	1.09175e-11 (0.689)		
species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.689074	0.689074

Phenyl+Allene	0.291600	0.779740	0.00000	0.689074
PhCH2CCH+H	0.0967415	0.876482	0.136563	0.825637
PhCHCCH2+H	0.0532744	0.929756	0.0752040	0.900841
C2H2+PhCH2	0.0232642	0.953020	0.0328403	0.933682
PhCCH+CH3	0.0176492	0.970669	0.0249142	0.958596
Indene+H	0.0145378	0.985207	0.0205221	0.979118
PAH7+H	0.00604332	0.991251	0.00853097	0.987649
Ph+MeAc	0.00373478	0.994985	0.00527212	0.992921
PhcycC3H3_A+H	0.00104439	0.996030	0.00147430	0.994395
rad19syn	0.000992650	0.997022	0.00140125	0.995797
rad39	0.000833753	0.997856	0.00117695	0.996974
rad19anti	0.000463520	0.998320	0.000654319	0.997628
rad54	0.000448432	0.998768	0.000633020	0.998261
PAH9+H	0.000276004	0.999044	0.000389615	0.998651
PhCCCH3+H	0.000209665	0.999254	0.000295970	0.998946
rad38	0.000160719	0.999414	0.000226876	0.999173
PAH1+H	9.95931e-05	0.999514	0.000140589	0.999314
rad50	5.46328e-05	0.999569	7.71214e-05	0.999391
rad35	5.24979e-05	0.999621	7.41079e-05	0.999465
rad46	5.06984e-05	0.999672	7.15674e-05	0.999537
PAH10+CH3	4.32190e-05	0.999715	6.10093e-05	0.999598
rad55	4.15447e-05	0.999757	5.86459e-05	0.999656
rad70	4.13232e-05	0.999798	5.83331e-05	0.999715
PAH3+H	3.54273e-05	0.999833	5.00103e-05	0.999765
rad67	3.21710e-05	0.999866	4.54135e-05	0.999810
rad56	2.10958e-05	0.999887	2.97795e-05	0.999840
rad51	2.05291e-05	0.999907	2.89794e-05	0.999869
rad53	1.82253e-05	0.999925	2.57273e-05	0.999895
rad30	1.61770e-05	0.999942	2.28359e-05	0.999917
rad37	1.58091e-05	0.999957	2.23166e-05	0.999940
rad34	1.21378e-05	0.999970	1.71341e-05	0.999957
rad52	5.53699e-06	0.999975	7.81618e-06	0.999965
rad62	4.54170e-06	0.999980	6.41120e-06	0.999971
PAH8+H	4.26413e-06	0.999984	6.01937e-06	0.999977
rad59	3.10133e-06	0.999987	4.37793e-06	0.999982
rad64	2.31389e-06	0.999989	3.26637e-06	0.999985
rad60syn	2.18352e-06	0.999991	3.08232e-06	0.999988
rad60anti	1.52762e-06	0.999993	2.15643e-06	0.999990
rad71	1.42624e-06	0.999994	2.01332e-06	0.999992
rad68syn	1.22834e-06	0.999996	1.73396e-06	0.999994
rad73	8.52963e-07	0.999996	1.20407e-06	0.999995
rad68anti	7.89692e-07	0.999997	1.11475e-06	0.999996
rad65	5.43585e-07	0.999998	7.67340e-07	0.999997
rad42	4.97942e-07	0.999998	7.02910e-07	0.999998
rad40syn	4.83630e-07	0.999999	6.82706e-07	0.999998
rad58	4.30302e-07	0.999999	6.07428e-07	0.999999
rad40anti	3.15359e-07	1.000000	4.45171e-07	0.999999
rad43	2.01350e-07	1.000000	2.84232e-07	1.000000
rad61	1.06762e-07	1.000000	1.50709e-07	1.000000
rad72	7.85300e-08	1.000000	1.10855e-07	1.000000
rad41	2.11925e-08	1.000000	2.99160e-08	1.000000
rad6	1.23230e-09	1.000000	1.73955e-09	1.000000
rad7	1.68789e-11	1.000000	2.38267e-11	1.000000
rad11	1.29055e-11	1.000000	1.82178e-11	1.000000
rad23	9.52213e-12	1.000000	1.34417e-11	1.000000
rad28	4.43319e-12	1.000000	6.25804e-12	1.000000
rad9	2.79247e-12	1.000000	3.94192e-12	1.000000
rad13	1.82826e-12	1.000000	2.58083e-12	1.000000
rad45	1.40481e-12	1.000000	1.98308e-12	1.000000
rad22	6.80978e-13	1.000000	9.61287e-13	1.000000
rad21	2.97974e-13	1.000000	4.20630e-13	1.000000
rad36	2.53263e-13	1.000000	3.57512e-13	1.000000
rad15	1.60616e-13	1.000000	2.26731e-13	1.000000
rad33	1.06527e-13	1.000000	1.50377e-13	1.000000
rad26	8.72767e-14	1.000000	1.23202e-13	1.000000
rad20	6.76771e-14	1.000000	9.55348e-14	1.000000
rad10	3.15132e-14	1.000000	4.44851e-14	1.000000
rad25	2.68293e-14	1.000000	3.78730e-14	1.000000
rad12	2.31790e-14	1.000000	3.27203e-14	1.000000
rad18	2.02981e-14	1.000000	2.86533e-14	1.000000
rad24	1.45642e-14	1.000000	2.05592e-14	1.000000
rad2	8.16831e-15	1.000000	1.15306e-14	1.000000
rad3	5.34663e-15	1.000000	7.54751e-15	1.000000
rad4	3.33968e-15	1.000000	4.71438e-15	1.000000
rad1	2.20463e-15	1.000000	3.11212e-15	1.000000
rad8	2.01388e-15	1.000000	2.84286e-15	1.000000
rad14	1.40671e-15	1.000000	1.98575e-15	1.000000
rad47	4.71863e-16	1.000000	6.66097e-16	1.000000
rad5	2.21767e-16	1.000000	3.13053e-16	1.000000
rad27	7.37626e-17	1.000000	1.04126e-16	1.000000

0.100000000E-01 Pa, 2500.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.28090e-11	(1.00)	2.31980e-11	(1.00)
Formation of rad11	6.43164e-12	(0.196)	2.60906e-12	(0.112)
Formation of rad6	9.73932e-12	(0.297)	3.95085e-12	(0.170)
H-abstraction	1.66381e-11	(0.507)	1.66381e-11	(0.717)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.507119	0.507119	0.717221	0.717221
Phenyl+Allene	0.292939	0.800058	0.00000	0.717221
PhCH2CCH+H	0.0943957	0.894453	0.133505	0.850725
PhCHCCH2+H	0.0481939	0.942647	0.0681609	0.918886
C2H2+PhCH2	0.0183497	0.960997	0.0259521	0.944838
PhCCH+CH3	0.0148752	0.975872	0.0210381	0.965876
Indene+H	0.00953292	0.985405	0.0134824	0.979359
PAH7+H	0.00553047	0.990936	0.00782174	0.987180
Ph+MeAc	0.00339482	0.994330	0.00480131	0.991982
PhcycC3H3_A+H	0.00149309	0.995824	0.00211169	0.994093
rad19syn	0.00122618	0.997050	0.00173419	0.995828
rad39	0.000692493	0.997742	0.000979395	0.996807
rad54	0.000558297	0.998301	0.000789599	0.997597
rad19anti	0.000392540	0.998693	0.000555170	0.998152
PAH9+H	0.000261381	0.998954	0.000369672	0.998522
PhCCCH3+H	0.000164587	0.999119	0.000232776	0.998754
rad38	0.000157797	0.999277	0.000223174	0.998977
PAH1+H	0.000129617	0.999406	0.000183319	0.999161
rad50	6.95416e-05	0.999476	9.83527e-05	0.999259
rad55	5.44673e-05	0.999530	7.70336e-05	0.999336
rad46	5.29591e-05	0.999583	7.49001e-05	0.999411
rad35	5.14100e-05	0.999635	7.27094e-05	0.999484
PAH10+CH3	5.04331e-05	0.999685	7.13277e-05	0.999555
rad70	4.95223e-05	0.999735	7.00399e-05	0.999625
PAH3+H	4.31617e-05	0.999778	6.10439e-05	0.999686
rad67	3.73882e-05	0.999815	5.28783e-05	0.999739
rad56	3.65112e-05	0.999852	5.16378e-05	0.999791
rad51	2.99347e-05	0.999882	4.23369e-05	0.999833
rad53	2.90213e-05	0.999911	4.10449e-05	0.999874
rad34	1.57208e-05	0.999926	2.22340e-05	0.999896
rad30	1.43454e-05	0.999941	2.02888e-05	0.999917
rad37	1.43019e-05	0.999955	2.02272e-05	0.999937
PAH8+H	8.32886e-06	0.999963	1.17795e-05	0.999949
rad52	7.47627e-06	0.999971	1.05737e-05	0.999959
rad62	5.70269e-06	0.999977	8.06532e-06	0.999967
rad59	3.60017e-06	0.999980	5.09173e-06	0.999972
rad64	3.22135e-06	0.999983	4.55597e-06	0.999977
rad71	3.21466e-06	0.999987	4.54650e-06	0.999981
rad60syn	2.29248e-06	0.999989	3.24226e-06	0.999985
rad68syn	1.99920e-06	0.999991	2.82747e-06	0.999988
rad73	1.73023e-06	0.999993	2.44707e-06	0.999990
rad60anti	1.62672e-06	0.999994	2.30068e-06	0.999992
rad68anti	1.28205e-06	0.999996	1.81322e-06	0.999994
rad40syn	8.70429e-07	0.999996	1.23105e-06	0.999995
rad65	7.65686e-07	0.999997	1.08291e-06	0.999996
rad42	7.25369e-07	0.999998	1.02590e-06	0.999997
rad58	6.16762e-07	0.999999	8.72293e-07	0.999998
rad40anti	5.85898e-07	0.999999	8.28640e-07	0.999999
rad43	2.45120e-07	0.999999	3.46673e-07	0.999999
rad72	2.19454e-07	1.000000	3.10376e-07	1.000000
rad61	1.61750e-07	1.000000	2.28765e-07	1.000000
rad41	3.09947e-08	1.000000	4.38359e-08	1.000000
rad6	3.34677e-10	1.000000	4.73336e-10	1.000000
rad7	6.60979e-12	1.000000	9.34821e-12	1.000000
rad11	4.80690e-12	1.000000	6.79841e-12	1.000000
rad23	2.73126e-12	1.000000	3.86282e-12	1.000000
rad28	1.19479e-12	1.000000	1.68979e-12	1.000000
rad9	1.08925e-12	1.000000	1.54053e-12	1.000000
rad13	7.91370e-13	1.000000	1.11924e-12	1.000000
rad45	5.47601e-13	1.000000	7.74476e-13	1.000000
rad22	2.14189e-13	1.000000	3.02927e-13	1.000000
rad21	1.39347e-13	1.000000	1.97079e-13	1.000000
rad36	1.00404e-13	1.000000	1.42002e-13	1.000000
rad15	6.95968e-14	1.000000	9.84310e-14	1.000000
rad33	5.56581e-14	1.000000	7.87173e-14	1.000000
rad26	3.06856e-14	1.000000	4.33987e-14	1.000000
rad20	2.88846e-14	1.000000	4.08515e-14	1.000000
rad25	1.37166e-14	1.000000	1.93994e-14	1.000000

rad12	1.32606e-14	1.000000	1.87546e-14	1.00000
rad10	1.13579e-14	1.000000	1.60635e-14	1.00000
rad24	7.99114e-15	1.000000	1.13019e-14	1.00000
rad18	7.64237e-15	1.000000	1.08086e-14	1.00000
rad2	2.20661e-15	1.000000	3.12081e-15	1.00000
rad3	2.12901e-15	1.000000	3.01106e-15	1.00000
rad8	1.74700e-15	1.000000	2.47079e-15	1.00000
rad4	1.30124e-15	1.000000	1.84035e-15	1.00000
rad14	7.76949e-16	1.000000	1.09884e-15	1.00000
rad47	6.74967e-16	1.000000	9.54604e-16	1.00000
rad1	5.82497e-16	1.000000	8.23830e-16	1.00000
rad5	1.45913e-16	1.000000	2.06365e-16	1.00000
rad27	3.67333e-17	1.000000	5.19522e-17	1.00000

0.100000000E-01 Pa, 2750.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	4.60596e-11	(1.00)	3.26255e-11	(1.00)
Formation of rad11	8.62280e-12	(0.187)	3.34633e-12	(0.103)
Formation of rad6	1.33313e-11	(0.289)	5.17360e-12	(0.159)
H-abstraction	2.41055e-11	(0.523)	2.41055e-11	(0.739)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.738856	0.738856
Phenyl+Allene	0.291669	0.815024	0.000000	0.738856
PhCH2CCH+H	0.0913925	0.906416	0.129025	0.867881
PhCHCCH2+H	0.0440897	0.950506	0.0622446	0.930126
C2H2+PhCH2	0.0155259	0.966032	0.0219190	0.952045
PhCCH+CH3	0.0128664	0.978898	0.0181644	0.970209
Indene+H	0.00652675	0.985425	0.00921427	0.979424
PAH7+H	0.00506746	0.990493	0.00715408	0.986578
Ph+MeAc	0.00315047	0.993643	0.00444775	0.991026
PhcycC3H3_A+H	0.00197300	0.995616	0.00278544	0.993811
rad19syn	0.00143568	0.997052	0.00202686	0.995838
rad54	0.000652594	0.997704	0.000921315	0.996759
rad39	0.000584043	0.998288	0.000824532	0.997584
rad19anti	0.000328573	0.998617	0.000463869	0.998048
PAH9+H	0.000240059	0.998857	0.000338907	0.998386
PAH1+H	0.000158291	0.999015	0.000223471	0.998610
rad38	0.000149711	0.999165	0.000211358	0.998821
PhCCCH3+H	0.000136861	0.999302	0.000193216	0.999015
rad50	8.19601e-05	0.999384	0.000115709	0.999130
rad55	6.64334e-05	0.999450	9.37887e-05	0.999224
rad70	5.64830e-05	0.999507	7.97407e-05	0.999304
rad56	5.59920e-05	0.999563	7.90477e-05	0.999383
PAH10+CH3	5.49972e-05	0.999618	7.76435e-05	0.999460
rad46	5.29186e-05	0.999671	7.47090e-05	0.999535
PAH3+H	5.07704e-05	0.999721	7.16761e-05	0.999607
rad35	4.92117e-05	0.999771	6.94754e-05	0.999676
rad53	4.15958e-05	0.999812	5.87239e-05	0.999735
rad67	4.08893e-05	0.999853	5.77263e-05	0.999793
rad51	3.94231e-05	0.999893	5.56562e-05	0.999848
rad34	1.91382e-05	0.999912	2.70187e-05	0.999875
PAH8+H	1.42400e-05	0.999926	2.01036e-05	0.999896
rad30	1.30159e-05	0.999939	1.83754e-05	0.999914
rad37	1.25497e-05	0.999951	1.77173e-05	0.999932
rad52	9.23200e-06	0.999961	1.30335e-05	0.999945
rad62	6.96508e-06	0.999968	9.83308e-06	0.999954
rad71	6.06264e-06	0.999974	8.55909e-06	0.999963
rad64	4.12924e-06	0.999978	5.82954e-06	0.999969
rad59	4.06487e-06	0.999982	5.73866e-06	0.999975
rad73	2.98825e-06	0.999985	4.21872e-06	0.999979
rad68syn	2.93858e-06	0.999988	4.14861e-06	0.999983
rad60syn	2.38752e-06	0.999990	3.37063e-06	0.999986
rad68anti	1.88086e-06	0.999992	2.65533e-06	0.999989
rad60anti	1.71401e-06	0.999994	2.41979e-06	0.999991
rad40syn	1.39059e-06	0.999995	1.96319e-06	0.999993
rad42	1.00618e-06	0.999996	1.42050e-06	0.999995
rad65	9.77109e-07	0.999997	1.37945e-06	0.999996
rad40anti	9.60893e-07	0.999998	1.35656e-06	0.999998
rad58	8.26832e-07	0.999999	1.16730e-06	0.999999
rad72	4.93194e-07	1.000000	6.96277e-07	0.999999
rad43	2.90363e-07	1.000000	4.09925e-07	1.000000
rad61	2.19014e-07	1.000000	3.09197e-07	1.000000
rad41	4.25216e-08	1.000000	6.00307e-08	1.000000
rad6	1.13764e-10	1.000000	1.60608e-10	1.000000
rad7	2.96965e-12	1.000000	4.19245e-12	1.000000
rad11	2.05599e-12	1.000000	2.90259e-12	1.000000

rad23	9.36546e-13	1.00000	1.32219e-12	1.00000
rad9	4.57119e-13	1.00000	6.45346e-13	1.00000
rad28	4.06114e-13	1.00000	5.73338e-13	1.00000
rad13	3.84841e-13	1.00000	5.43307e-13	1.00000
rad45	2.35689e-13	1.00000	3.32739e-13	1.00000
rad22	7.98824e-14	1.00000	1.12776e-13	1.00000
rad21	7.20278e-14	1.00000	1.01687e-13	1.00000
rad36	4.38308e-14	1.00000	6.18790e-14	1.00000
rad15	3.21096e-14	1.00000	4.53314e-14	1.00000
rad33	3.15102e-14	1.00000	4.44850e-14	1.00000
rad20	1.44351e-14	1.00000	2.03790e-14	1.00000
rad26	1.25303e-14	1.00000	1.76900e-14	1.00000
rad12	7.84782e-15	1.00000	1.10793e-14	1.00000
rad25	7.63300e-15	1.00000	1.07760e-14	1.00000
rad10	4.88428e-15	1.00000	6.89545e-15	1.00000
rad24	4.65717e-15	1.00000	6.57487e-15	1.00000
rad18	3.38490e-15	1.00000	4.77869e-15	1.00000
rad8	1.52996e-15	1.00000	2.15996e-15	1.00000
rad3	9.89077e-16	1.00000	1.39635e-15	1.00000
rad47	8.69678e-16	1.00000	1.22779e-15	1.00000
rad2	7.83314e-16	1.00000	1.10586e-15	1.00000
rad4	5.93900e-16	1.00000	8.38451e-16	1.00000
rad14	4.74842e-16	1.00000	6.70369e-16	1.00000
rad1	1.97579e-16	1.00000	2.78935e-16	1.00000
rad5	1.02249e-16	1.00000	1.44352e-16	1.00000
rad27	2.15755e-17	1.00000	3.04598e-17	1.00000

0.100000000E-01 Pa, 3000.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	6.24269e-11	(1.00)	4.43911e-11	(1.00)
Formation of rad11	1.12221e-11	(0.180)	4.21269e-12	(0.0949)
Formation of rad6	1.76534e-11	(0.283)	6.62699e-12	(0.149)
H-abstraction	3.35514e-11	(0.537)	3.35514e-11	(0.756)
species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.537451	0.537451	0.755814	0.755814
Phenyl+Allene	0.288911	0.826362	0.000000	0.755814
PhCH2CCH+H	0.0883066	0.914669	0.124185	0.879999
PhCHCCH2+H	0.0408111	0.955480	0.0573925	0.937392
C2H2+PhCH2	0.0138651	0.969345	0.0194984	0.956890
PhCCH+CH3	0.0113582	0.980703	0.0159730	0.972863
PAH7+H	0.00465329	0.985356	0.00654386	0.979407
Indene+H	0.00463895	0.989995	0.00652370	0.985931
Ph+MeAc	0.00297587	0.992971	0.00418496	0.990116
PhcycC3H3_A+H	0.00245642	0.995427	0.00345445	0.993570
rad19syn	0.00161454	0.997042	0.00227052	0.995841
rad54	0.000727890	0.997770	0.00102362	0.996864
rad39	0.000500510	0.998270	0.000703861	0.997568
rad19anti	0.000275358	0.998546	0.000387232	0.997955
PAH9+H	0.000215435	0.998761	0.000302964	0.998258
PAH1+H	0.000185098	0.998946	0.000260302	0.998519
rad38	0.000138297	0.999085	0.000194486	0.998713
PhCCCH3+H	0.000118094	0.999203	0.000166074	0.998879
rad50	9.10199e-05	0.999294	0.000128001	0.999007
rad56	7.84307e-05	0.999372	0.000110297	0.999117
rad55	7.67854e-05	0.999449	0.000107983	0.999225
rad70	6.22156e-05	0.999511	8.74935e-05	0.999313
PAH3+H	5.79162e-05	0.999569	8.14472e-05	0.999394
PAH10+CH3	5.73435e-05	0.999626	8.06419e-05	0.999475
rad53	5.50942e-05	0.999682	7.74787e-05	0.999552
rad46	5.10964e-05	0.999733	7.18563e-05	0.999624
rad51	4.79927e-05	0.999781	6.74918e-05	0.999692
rad35	4.64038e-05	0.999827	6.52572e-05	0.999757
rad67	4.30004e-05	0.999870	6.04712e-05	0.999818
rad34	2.22803e-05	0.999892	3.13327e-05	0.999849
PAH8+H	2.20424e-05	0.999914	3.09982e-05	0.999880
rad30	1.19659e-05	0.999926	1.68276e-05	0.999897
rad37	1.08360e-05	0.999937	1.52386e-05	0.999912
rad52	1.06405e-05	0.999948	1.49636e-05	0.999927
rad71	9.97847e-06	0.999958	1.40327e-05	0.999941
rad62	8.52399e-06	0.999966	1.19872e-05	0.999953
rad64	4.99011e-06	0.999971	7.01754e-06	0.999960
rad73	4.56449e-06	0.999976	6.41901e-06	0.999966
rad59	4.47702e-06	0.999980	6.29599e-06	0.999973
rad68syn	4.00554e-06	0.999984	5.63295e-06	0.999978
rad68anti	2.55993e-06	0.999987	3.60001e-06	0.999982
rad60syn	2.46101e-06	0.999989	3.46090e-06	0.999985

rad40syn	2.03324e-06	0.999991	2.85932e-06	0.999988
rad60anti	1.78407e-06	0.999993	2.50894e-06	0.999991
rad40anti	1.43624e-06	0.999995	2.01978e-06	0.999993
rad42	1.37800e-06	0.999996	1.93787e-06	0.999995
rad65	1.15674e-06	0.999997	1.62672e-06	0.999996
rad58	1.05023e-06	0.999998	1.47693e-06	0.999998
rad72	9.39261e-07	0.999999	1.32088e-06	0.999999
rad43	3.36095e-07	0.999999	4.72649e-07	1.000000
rad61	2.73990e-07	1.000000	3.85311e-07	1.000000
rad41	5.56844e-08	1.000000	7.83087e-08	1.000000
rad6	4.51507e-11	1.000000	6.34952e-11	1.000000
rad7	1.48215e-12	1.000000	2.08434e-12	1.000000
rad11	9.87102e-13	1.000000	1.38816e-12	1.000000
rad23	3.63505e-13	1.000000	5.11193e-13	1.000000
rad9	2.06394e-13	1.000000	2.90252e-13	1.000000
rad13	2.05544e-13	1.000000	2.89055e-13	1.000000
rad28	1.60911e-13	1.000000	2.26288e-13	1.000000
rad45	1.10144e-13	1.000000	1.54896e-13	1.000000
rad21	4.05037e-14	1.000000	5.69600e-14	1.000000
rad22	3.38503e-14	1.000000	4.76036e-14	1.000000
rad36	2.07232e-14	1.000000	2.91431e-14	1.000000
rad33	1.89985e-14	1.000000	2.67174e-14	1.000000
rad15	1.57570e-14	1.000000	2.21590e-14	1.000000
rad20	8.22819e-15	1.000000	1.15712e-14	1.000000
rad26	5.62307e-15	1.000000	7.90769e-15	1.000000
rad12	4.82938e-15	1.000000	6.79152e-15	1.000000
rad25	4.56476e-15	1.000000	6.41940e-15	1.000000
rad24	2.85392e-15	1.000000	4.01344e-15	1.000000
rad10	2.34630e-15	1.000000	3.29959e-15	1.000000
rad18	1.70032e-15	1.000000	2.39115e-15	1.000000
rad8	1.34844e-15	1.000000	1.89630e-15	1.000000
rad47	1.03449e-15	1.000000	1.45480e-15	1.000000
rad3	5.16103e-16	1.000000	7.25794e-16	1.000000
rad2	3.38111e-16	1.000000	4.75484e-16	1.000000
rad14	3.16345e-16	1.000000	4.44875e-16	1.000000
rad4	3.07487e-16	1.000000	4.32417e-16	1.000000
rad1	8.08123e-17	1.000000	1.13646e-16	1.000000
rad5	7.43487e-17	1.000000	1.04556e-16	1.000000
rad27	1.40649e-17	1.000000	1.97793e-17	1.000000

0.100000000E-01 Pa, 3250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.22129e-11 (1.00)	5.87536e-11 (1.00)
Formation of rad11	1.42538e-11 (0.173)	5.21849e-12 (0.0888)
Formation of rad6	2.27549e-11 (0.277)	8.33083e-12 (0.142)
H-abstraction	4.52043e-11 (0.550)	4.52043e-11 (0.769)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.549844	0.549844	0.769388	0.769388
Phenyl+Allene	0.285349	0.835192	0.000000	0.769388
PhCH2CCH+H	0.0853725	0.920565	0.119460	0.888848
PhCHCCH2+H	0.0381839	0.958749	0.0534299	0.942278
C2H2+PhCH2	0.0128678	0.971617	0.0180057	0.960283
PhCCH+CH3	0.0101926	0.981809	0.0142623	0.974546
PAH7+H	0.00428274	0.986092	0.00599276	0.980539
Indene+H	0.00340695	0.989499	0.00476729	0.985306
PhcycC3H3_A+H	0.00292038	0.992419	0.00408643	0.989392
Ph+MeAc	0.00285191	0.995271	0.00399061	0.993383
rad19syn	0.00176005	0.997031	0.00246280	0.995846
rad54	0.000783510	0.997815	0.00109635	0.996942
rad39	0.000435199	0.998250	0.000608967	0.997551
rad19anti	0.000232598	0.998483	0.000325470	0.997876
PAH1+H	0.000210285	0.998693	0.000294248	0.998171
PAH9+H	0.000189946	0.998883	0.000265788	0.998436
rad38	0.000125074	0.999008	0.000175014	0.998611
PhCCCH3+H	0.000104499	0.999112	0.000146224	0.998758
rad56	0.000102496	0.999215	0.000143420	0.998901
rad50	9.64743e-05	0.999311	0.000134995	0.999036
rad55	8.51952e-05	0.999397	0.000119212	0.999155
rad53	6.86880e-05	0.999465	9.61137e-05	0.999251
rad70	6.67834e-05	0.999532	9.34486e-05	0.999345
PAH3+H	6.43467e-05	0.999596	9.00394e-05	0.999435
PAH10+CH3	5.80427e-05	0.999654	8.12183e-05	0.999516
rad51	5.49240e-05	0.999709	7.68541e-05	0.999593
rad46	4.80263e-05	0.999757	6.72021e-05	0.999660
rad67	4.40669e-05	0.999802	6.16619e-05	0.999722
rad35	4.33473e-05	0.999845	6.06552e-05	0.999783

PAH8+H	3.16111e-05	0.999876	4.42329e-05	0.999827
rad34	2.50786e-05	0.999902	3.50921e-05	0.999862
rad71	1.47743e-05	0.999916	2.06734e-05	0.999883
rad52	1.16170e-05	0.999928	1.62555e-05	0.999899
rad30	1.10774e-05	0.999939	1.55003e-05	0.999914
rad62	1.06705e-05	0.999950	1.49310e-05	0.999929
rad37	9.29424e-06	0.999959	1.30053e-05	0.999942
rad73	6.33743e-06	0.999965	8.86788e-06	0.999951
rad64	5.77649e-06	0.999971	8.08292e-06	0.999959
rad68syn	5.15348e-06	0.999976	7.21118e-06	0.999966
rad59	4.82486e-06	0.999981	6.75136e-06	0.999973
rad68anti	3.28964e-06	0.999984	4.60314e-06	0.999978
rad40syn	2.77792e-06	0.999987	3.88709e-06	0.999982
rad60syn	2.50929e-06	0.999990	3.51119e-06	0.999985
rad40anti	1.99952e-06	0.999992	2.79788e-06	0.999988
rad42	1.90464e-06	0.999994	2.66512e-06	0.999991
rad60anti	1.83422e-06	0.999995	2.56658e-06	0.999993
rad72	1.57365e-06	0.999997	2.20197e-06	0.999995
rad65	1.29208e-06	0.999998	1.80798e-06	0.999997
rad58	1.27682e-06	1.000000	1.78663e-06	0.999999
rad43	3.85029e-07	1.000000	5.38764e-07	1.000000
rad61	3.23853e-07	1.000000	4.53160e-07	1.000000
rad41	7.10639e-08	1.000000	9.94383e-08	1.000000
rad6	2.02086e-11	1.000000	2.82775e-11	1.000000
rad7	8.04019e-13	1.000000	1.12505e-12	1.000000
rad11	5.22069e-13	1.000000	7.30520e-13	1.000000
rad23	1.54966e-13	1.000000	2.16841e-13	1.000000
rad13	1.18529e-13	1.000000	1.65855e-13	1.000000
rad9	1.00046e-13	1.000000	1.39992e-13	1.000000
rad28	7.15131e-14	1.000000	1.00067e-13	1.000000
rad45	5.50892e-14	1.000000	7.70852e-14	1.000000
rad21	2.44316e-14	1.000000	3.41867e-14	1.000000
rad22	1.59240e-14	1.000000	2.22822e-14	1.000000
rad33	1.20475e-14	1.000000	1.68578e-14	1.000000
rad36	1.04618e-14	1.000000	1.46390e-14	1.000000
rad15	8.21179e-15	1.000000	1.14906e-14	1.000000
rad20	5.20452e-15	1.000000	7.28260e-15	1.000000
rad12	3.09374e-15	1.000000	4.32901e-15	1.000000
rad25	2.89948e-15	1.000000	4.05719e-15	1.000000
rad26	2.71976e-15	1.000000	3.80571e-15	1.000000
rad24	1.82403e-15	1.000000	2.55233e-15	1.000000
rad10	1.22041e-15	1.000000	1.70770e-15	1.000000
rad8	1.19193e-15	1.000000	1.66784e-15	1.000000
rad47	1.15640e-15	1.000000	1.61813e-15	1.000000
rad18	9.40471e-16	1.000000	1.31599e-15	1.000000
rad3	2.94266e-16	1.000000	4.11761e-16	1.000000
rad14	2.29564e-16	1.000000	3.21225e-16	1.000000
rad4	1.76113e-16	1.000000	2.46432e-16	1.000000
rad2	1.67475e-16	1.000000	2.34344e-16	1.000000
rad5	5.58486e-17	1.000000	7.81483e-17	1.000000
rad1	3.81250e-17	1.000000	5.33476e-17	1.000000
rad27	9.84725e-18	1.000000	1.37791e-17	1.000000

0.100000000E-01 Pa, 3500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.05713e-10 (1.00)	7.59650e-11 (1.00)
Formation of rad11	1.77412e-11 (0.168)	6.37264e-12 (0.0839)
Formation of rad6	2.86822e-11 (0.271)	1.03027e-11 (0.136)
H-abstraction	5.92897e-11 (0.561)	5.92897e-11 (0.780)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.780487	0.780487
Phenyl+Allene	0.281404	0.842259	0.000000	0.780487
PhCH2CCH+H	0.0826656	0.924925	0.115037	0.895524
PhCHCCH2+H	0.0360585	0.960983	0.0501791	0.945703
C2H2+PhCH2	0.0122593	0.973242	0.0170600	0.962764
PhCCH+CH3	0.00927084	0.982513	0.0129013	0.975665
PAH7+H	0.00395025	0.986463	0.00549717	0.981162
PhcycC3H3_A+H	0.00334801	0.989811	0.00465910	0.985821
Ph+MeAc	0.00276398	0.992575	0.00384635	0.989667
Indene+H	0.00257590	0.995151	0.00358462	0.993252
rad19syn	0.00187235	0.997024	0.00260557	0.995858
rad54	0.000820548	0.997844	0.00114187	0.996999
rad39	0.000383055	0.998227	0.000533059	0.997533
PAH1+H	0.000234590	0.998462	0.000326455	0.997859
rad19anti	0.000198628	0.998661	0.000276411	0.998135
PAH9+H	0.000165224	0.998826	0.000229927	0.998365

rad56	0.000126873	0.998953	0.000176556	0.998542
rad38	0.000111229	0.999064	0.000154787	0.998697
rad50	9.85613e-05	0.999162	0.000137158	0.998834
PhCCCH3+H	9.42424e-05	0.999257	0.000131148	0.998965
rad55	9.15803e-05	0.999348	0.000127443	0.999092
rad53	8.16793e-05	0.999430	0.000113665	0.999206
rad70	7.02694e-05	0.999500	9.77871e-05	0.999304
PAH3+H	6.99220e-05	0.999570	9.73035e-05	0.999401
rad51	5.98507e-05	0.999630	8.32882e-05	0.999484
PAH10+CH3	5.76128e-05	0.999688	8.01742e-05	0.999565
rad67	4.43734e-05	0.999732	6.17501e-05	0.999626
rad46	4.41956e-05	0.999776	6.15029e-05	0.999688
PAH8+H	4.26935e-05	0.999819	5.94123e-05	0.999747
rad35	4.02805e-05	0.999859	5.60544e-05	0.999803
rad34	2.74951e-05	0.999887	3.82622e-05	0.999842
rad71	2.01281e-05	0.999907	2.80103e-05	0.999870
rad62	1.37116e-05	0.999920	1.90811e-05	0.999889
rad52	1.21501e-05	0.999933	1.69080e-05	0.999906
rad30	1.02915e-05	0.999943	1.43216e-05	0.999920
rad73	8.16310e-06	0.999951	1.13598e-05	0.999931
rad37	7.96636e-06	0.999959	1.10860e-05	0.999942
rad64	6.47621e-06	0.999966	9.01228e-06	0.999951
rad68syn	6.33612e-06	0.999972	8.81737e-06	0.999960
rad59	5.10458e-06	0.999977	7.10355e-06	0.999967
rad68anti	4.04059e-06	0.999981	5.62289e-06	0.999973
rad40syn	3.59895e-06	0.999985	5.00830e-06	0.999978
rad42	2.66321e-06	0.999987	3.70612e-06	0.999982
rad40anti	2.63316e-06	0.999990	3.66431e-06	0.999985
rad60syn	2.53258e-06	0.999992	3.52435e-06	0.999989
rad72	2.38441e-06	0.999995	3.31814e-06	0.999992
rad60anti	1.86455e-06	0.999997	2.59471e-06	0.999995
rad58	1.49815e-06	0.999998	2.08483e-06	0.999997
rad65	1.37925e-06	1.000000	1.91936e-06	0.999999
rad43	4.42452e-07	1.000000	6.15716e-07	0.999999
rad61	3.67258e-07	1.000000	5.11077e-07	1.000000
rad41	8.98821e-08	1.000000	1.25080e-07	1.000000
rad6	9.97725e-12	1.000000	1.38843e-11	1.000000
rad7	4.66456e-13	1.000000	6.49122e-13	1.000000
rad11	2.99305e-13	1.000000	4.16513e-13	1.000000
rad13	7.28323e-14	1.000000	1.01354e-13	1.000000
rad23	7.13146e-14	1.000000	9.92411e-14	1.000000
rad9	5.18582e-14	1.000000	7.21657e-14	1.000000
rad28	3.48833e-14	1.000000	4.85437e-14	1.000000
rad45	2.91439e-14	1.000000	4.05568e-14	1.000000
rad21	1.56207e-14	1.000000	2.17378e-14	1.000000
rad22	8.17847e-15	1.000000	1.13812e-14	1.000000
rad33	7.96113e-15	1.000000	1.10787e-14	1.000000
rad36	5.57447e-15	1.000000	7.75741e-15	1.000000
rad15	4.53000e-15	1.000000	6.30397e-15	1.000000
rad20	3.56513e-15	1.000000	4.96123e-15	1.000000
rad12	2.06000e-15	1.000000	2.86671e-15	1.000000
rad25	1.93600e-15	1.000000	2.69413e-15	1.000000
rad26	1.40410e-15	1.000000	1.95395e-15	1.000000
rad47	1.23125e-15	1.000000	1.71341e-15	1.000000
rad24	1.20836e-15	1.000000	1.68155e-15	1.000000
rad8	1.05361e-15	1.000000	1.46621e-15	1.000000
rad10	6.75915e-16	1.000000	9.40606e-16	1.000000
rad18	5.60082e-16	1.000000	7.79409e-16	1.000000
rad14	1.81860e-16	1.000000	2.53076e-16	1.000000
rad3	1.79837e-16	1.000000	2.50262e-16	1.000000
rad4	1.09400e-16	1.000000	1.52241e-16	1.000000
rad2	9.15552e-17	1.000000	1.27408e-16	1.000000
rad5	4.32790e-17	1.000000	6.02271e-17	1.000000
rad1	2.01243e-17	1.000000	2.80050e-17	1.000000
rad27	7.31107e-18	1.000000	1.01741e-17	1.000000

0.100000000E-01 Pa, 3750.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.33217e-10	(1.00)	9.62711e-11	(1.00)
Formation of rad11	2.17064e-11	(0.163)	7.68279e-12	(0.0798)
Formation of rad6	3.54800e-11	(0.266)	1.25578e-11	(0.130)
H-abstraction	7.60305e-11	(0.571)	7.60305e-11	(0.790)
species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789754	0.789754
Phenyl+Allene	0.277336	0.848063	0.000000	0.789754
PhCH2CCH+H	0.0801946	0.928257	0.110971	0.900725

PhCHCCH2+H	0.0343186	0.962576	0.0474891	0.948214
C2H2+PhCH2	0.0118838	0.974460	0.0164445	0.964658
PhCCH+CH3	0.00852836	0.982988	0.0118013	0.976459
PhcycC3H3_A+H	0.00372851	0.986717	0.00515939	0.981619
PAH7+H	0.00365085	0.990368	0.00505194	0.986671
Ph+MeAc	0.00270113	0.993069	0.00373773	0.990408
Indene+H	0.00199900	0.995068	0.00276616	0.993175
rad19syn	0.00195356	0.997021	0.00270328	0.995878
rad54	0.000841040	0.997862	0.00116381	0.997042
rad39	0.000340475	0.998203	0.000471138	0.997513
PAH1+H	0.000258935	0.998462	0.000358305	0.997871
rad19anti	0.000171610	0.998633	0.000237469	0.998109
rad56	0.000150421	0.998784	0.000208148	0.998317
PAH9+H	0.000142296	0.998926	0.000196904	0.998514
rad50	9.78214e-05	0.999024	0.000135362	0.998649
rad38	9.76287e-05	0.999121	0.000135095	0.998784
rad55	9.60227e-05	0.999217	0.000132873	0.998917
rad53	9.35446e-05	0.999311	0.000129444	0.999046
PhCCCH3+H	8.63448e-05	0.999397	0.000119481	0.999166
PAH3+H	7.46029e-05	0.999472	0.000103233	0.999269
rad70	7.27716e-05	0.999545	0.000100699	0.999370
rad51	6.27266e-05	0.999607	8.67994e-05	0.999457
PAH10+CH3	5.64592e-05	0.999664	7.81267e-05	0.999535
PAH8+H	5.49581e-05	0.999719	7.60493e-05	0.999611
rad67	4.41361e-05	0.999763	6.10741e-05	0.999672
rad46	4.00102e-05	0.999803	5.53649e-05	0.999727
rad35	3.73501e-05	0.999840	5.16839e-05	0.999779
rad34	2.95155e-05	0.999870	4.08426e-05	0.999820
rad71	2.56704e-05	0.999896	3.55219e-05	0.999855
rad62	1.78765e-05	0.999913	2.47369e-05	0.999880
rad52	1.22817e-05	0.999926	1.69950e-05	0.999897
rad73	9.90830e-06	0.999936	1.37108e-05	0.999911
rad30	9.58077e-06	0.999945	1.32576e-05	0.999924
rad68syn	7.51159e-06	0.999953	1.03943e-05	0.999934
rad64	7.08717e-06	0.999960	9.80700e-06	0.999944
rad37	6.84827e-06	0.999967	9.47639e-06	0.999954
rad59	5.31873e-06	0.999972	7.35989e-06	0.999961
rad68anti	4.78626e-06	0.999977	6.62308e-06	0.999968
rad40syn	4.46912e-06	0.999981	6.18422e-06	0.999974
rad42	3.72271e-06	0.999985	5.15138e-06	0.999979
rad72	3.33614e-06	0.999988	4.61643e-06	0.999984
rad40anti	3.31727e-06	0.999992	4.59032e-06	0.999988
rad60syn	2.53369e-06	0.999994	3.50604e-06	0.999992
rad60anti	1.87710e-06	0.999996	2.59748e-06	0.999994
rad58	1.70809e-06	0.999998	2.36361e-06	0.999997
rad65	1.42131e-06	0.999999	1.96676e-06	0.999999
rad43	5.13732e-07	1.000000	7.10883e-07	0.999999
rad61	4.03889e-07	1.000000	5.58888e-07	1.000000
rad41	1.13553e-07	1.000000	1.57130e-07	1.000000
rad6	5.34496e-12	1.000000	7.39616e-12	1.000000
rad7	2.85890e-13	1.000000	3.95605e-13	1.000000
rad11	1.83502e-13	1.000000	2.53924e-13	1.000000
rad13	4.71998e-14	1.000000	6.53135e-14	1.000000
rad23	3.49924e-14	1.000000	4.84213e-14	1.000000
rad9	2.85951e-14	1.000000	3.95691e-14	1.000000
rad28	1.83925e-14	1.000000	2.54509e-14	1.000000
rad45	1.61584e-14	1.000000	2.23594e-14	1.000000
rad21	1.04835e-14	1.000000	1.45068e-14	1.000000
rad33	5.44417e-15	1.000000	7.53345e-15	1.000000
rad22	4.52415e-15	1.000000	6.26037e-15	1.000000
rad36	3.10668e-15	1.000000	4.29892e-15	1.000000
rad15	2.63325e-15	1.000000	3.64381e-15	1.000000
rad20	2.59395e-15	1.000000	3.58942e-15	1.000000
rad12	1.42144e-15	1.000000	1.96695e-15	1.000000
rad25	1.34706e-15	1.000000	1.86401e-15	1.000000
rad47	1.26179e-15	1.000000	1.74602e-15	1.000000
rad8	9.29496e-16	1.000000	1.28621e-15	1.000000
rad24	8.25899e-16	1.000000	1.14285e-15	1.000000
rad26	7.68282e-16	1.000000	1.06313e-15	1.000000
rad10	3.94562e-16	1.000000	5.45981e-16	1.000000
rad18	3.53361e-16	1.000000	4.88969e-16	1.000000
rad14	1.56347e-16	1.000000	2.16347e-16	1.000000
rad3	1.16230e-16	1.000000	1.60835e-16	1.000000
rad4	7.25570e-17	1.000000	1.00402e-16	1.000000
rad2	5.38913e-17	1.000000	7.45732e-17	1.000000
rad5	3.45199e-17	1.000000	4.77674e-17	1.000000
rad1	1.16304e-17	1.000000	1.60938e-17	1.000000
rad27	5.73779e-18	1.000000	7.93979e-18	1.000000

0.100000000E-01 Pa, 4000.00000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.65008e-10	(1.00)	1.19912e-10	(1.00)
Formation of rad11	2.61707e-11	(0.159)	9.15556e-12	(0.0764)
Formation of rad6	4.31906e-11	(0.262)	1.51098e-11	(0.126)
H-abstraction	9.56470e-11	(0.580)	9.56470e-11	(0.798)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.579650	0.579650	0.797641	0.797641
Phenyl+Allene	0.273295	0.852945	0.00000	0.797641
PhCH2CCH+H	0.0779435	0.930888	0.107256	0.904897
PhCHCCH2+H	0.0328766	0.963765	0.0452408	0.950138
C2H2+PhCH2	0.0116508	0.975415	0.0160323	0.966170
PhCCH+CH3	0.00792125	0.983337	0.0109003	0.977070
PhcycC3H3_A+H	0.00405636	0.987393	0.00558187	0.982652
PAH7+H	0.00338058	0.990774	0.00465193	0.987304
Ph+MeAc	0.00265534	0.993429	0.00365394	0.990958
rad19syn	0.00200699	0.995436	0.00276178	0.993720
Indene+H	0.00158840	0.997024	0.00218576	0.995906
rad54	0.000847468	0.997872	0.00116618	0.997072
rad39	0.000304994	0.998177	0.000419695	0.997491
PAH1+H	0.000284127	0.998461	0.000390980	0.997882
rad56	0.000172242	0.998633	0.000237017	0.998119
rad19anti	0.000149971	0.998783	0.000206372	0.998326
PAH9+H	0.000121736	0.998905	0.000167518	0.998493
rad53	0.000103935	0.999009	0.000143023	0.998636
rad55	9.87033e-05	0.999108	0.000135823	0.998772
rad50	9.49261e-05	0.999203	0.000130625	0.998903
rad38	8.48536e-05	0.999287	0.000116765	0.999020
PhCCCH3+H	8.02193e-05	0.999368	0.000110388	0.999130
PAH3+H	7.84218e-05	0.999446	0.000107914	0.999238
rad70	7.43978e-05	0.999520	0.000102377	0.999340
PAH8+H	6.80299e-05	0.999588	9.36140e-05	0.999434
rad51	6.37407e-05	0.999652	8.77122e-05	0.999522
PAH10+CH3	5.48776e-05	0.999707	7.55158e-05	0.999597
rad67	4.35168e-05	0.999751	5.98821e-05	0.999657
rad46	3.57792e-05	0.999786	4.92350e-05	0.999706
rad35	3.46400e-05	0.999821	4.76673e-05	0.999754
rad34	3.11445e-05	0.999852	4.28572e-05	0.999797
rad71	3.10563e-05	0.999883	4.27358e-05	0.999839
rad62	2.32398e-05	0.999906	3.19798e-05	0.999871
rad52	1.20851e-05	0.999919	1.66300e-05	0.999888
rad73	1.14710e-05	0.999930	1.57849e-05	0.999904
rad30	8.93299e-06	0.999939	1.22925e-05	0.999916
rad68syn	8.64434e-06	0.999948	1.18952e-05	0.999928
rad64	7.61305e-06	0.999955	1.04761e-05	0.999939
rad37	5.91727e-06	0.999961	8.14263e-06	0.999947
rad68anti	5.50424e-06	0.999967	7.57424e-06	0.999954
rad59	5.47385e-06	0.999972	7.53243e-06	0.999962
rad40syn	5.36170e-06	0.999977	7.37810e-06	0.999969
rad42	5.12142e-06	0.999983	7.04750e-06	0.999976
rad72	4.37871e-06	0.999987	6.02543e-06	0.999982
rad40anti	4.03125e-06	0.999991	5.54731e-06	0.999988
rad60syn	2.51669e-06	0.999993	3.46315e-06	0.999991
rad58	1.90267e-06	0.999995	2.61822e-06	0.999994
rad60anti	1.87487e-06	0.999997	2.57996e-06	0.999996
rad65	1.42564e-06	0.999999	1.96179e-06	0.999998
rad43	6.01849e-07	0.999999	8.28191e-07	0.999999
rad61	4.34037e-07	1.000000	5.97267e-07	1.000000
rad41	1.43043e-07	1.000000	1.96838e-07	1.000000
rad6	3.06729e-12	1.000000	4.22083e-12	1.000000
rad7	1.83396e-13	1.000000	2.52368e-13	1.000000
rad11	1.18986e-13	1.000000	1.63734e-13	1.000000
rad13	3.19996e-14	1.000000	4.40338e-14	1.000000
rad23	1.81342e-14	1.000000	2.49541e-14	1.000000
rad9	1.66771e-14	1.000000	2.29489e-14	1.000000
rad28	1.03591e-14	1.000000	1.42549e-14	1.000000
rad45	9.32325e-15	1.000000	1.28295e-14	1.000000
rad21	7.32818e-15	1.000000	1.00841e-14	1.000000
rad33	3.83235e-15	1.000000	5.27360e-15	1.000000
rad22	2.66579e-15	1.000000	3.66833e-15	1.000000
rad20	1.97589e-15	1.000000	2.71898e-15	1.000000
rad36	1.79838e-15	1.000000	2.47471e-15	1.000000
rad15	1.60486e-15	1.000000	2.20841e-15	1.000000
rad47	1.25502e-15	1.000000	1.72700e-15	1.000000
rad12	1.01281e-15	1.000000	1.39370e-15	1.000000
rad25	9.69853e-16	1.000000	1.33459e-15	1.000000
rad8	8.17489e-16	1.000000	1.12493e-15	1.000000

rad24	5.80458e-16	1.000000	7.98754e-16	1.00000
rad26	4.42915e-16	1.000000	6.09481e-16	1.00000
rad10	2.41108e-16	1.000000	3.31782e-16	1.00000
rad18	2.33513e-16	1.000000	3.21332e-16	1.00000
rad14	1.43361e-16	1.000000	1.97276e-16	1.00000
rad3	7.86879e-17	1.000000	1.08281e-16	1.00000
rad4	5.07443e-17	1.000000	6.98281e-17	1.00000
rad2	3.36362e-17	1.000000	4.62860e-17	1.00000
rad5	2.82474e-17	1.000000	3.88706e-17	1.00000
rad1	7.23860e-18	1.000000	9.96085e-18	1.00000
rad27	4.74803e-18	1.000000	6.53365e-18	1.00000

0.100000000E-02 Pa, 20.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.56740e-51	(1.00)	1.56740e-51	(1.00)
Formation of rad11	1.56740e-51	(1.000)	1.56740e-51	(1.000)
Formation of rad6	3.73945e-60	(2.39e-09)	3.73945e-60	(2.39e-09)
H-abstraction	1.53631e-76	(9.80e-26)	1.53631e-76	(9.80e-26)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.765993	0.765993	0.765993	0.765993
Indene+H	0.230896	0.996889	0.230896	0.996889
C2H2+PhCH2	0.00156560	0.998455	0.00156560	0.998455
rad2	0.000545274	0.999000	0.000545274	0.999000
rad28	0.000282220	0.999282	0.000282220	0.999282
PhCCH+CH3	0.000244668	0.999527	0.000244668	0.999527
PhCHCCH2+H	0.000158635	0.999685	0.000158635	0.999685
PhCCH3+H	8.98782e-05	0.999775	8.98782e-05	0.999775
rad26	6.94653e-05	0.999845	6.94653e-05	0.999845
rad7	6.66393e-05	0.999911	6.66393e-05	0.999911
rad1	3.44626e-05	0.999946	3.44626e-05	0.999946
rad10	2.94911e-05	0.999975	2.94911e-05	0.999975
rad11	1.69260e-05	0.999992	1.69260e-05	0.999992
rad3	3.61389e-06	0.999996	3.61389e-06	0.999996
rad4	1.82701e-06	0.999998	1.82701e-06	0.999998
Ph+MeAc	8.41079e-07	0.999999	8.41079e-07	0.999999
rad8	6.86244e-07	0.999999	6.86244e-07	0.999999
rad9	4.53263e-07	1.000000	4.53263e-07	1.000000
rad13	3.08246e-07	1.000000	3.08246e-07	1.000000
rad30	7.92889e-08	1.000000	7.92889e-08	1.000000
PAH7+H	6.96925e-08	1.000000	6.96925e-08	1.000000
PAH9+H	1.58468e-08	1.000000	1.58468e-08	1.000000
rad15	1.37533e-08	1.000000	1.37533e-08	1.000000
rad12	1.25001e-08	1.000000	1.25001e-08	1.000000
rad35	8.48027e-09	1.000000	8.48027e-09	1.000000
rad39	6.10310e-09	1.000000	6.10310e-09	1.000000
Phenyl+Allene	4.12784e-09	1.000000	0.000000	1.000000
rad38	4.01410e-09	1.000000	4.01410e-09	1.000000
rad33	5.80135e-10	1.000000	5.80135e-10	1.000000
rad23	5.13172e-10	1.000000	5.13172e-10	1.000000
rad14	3.36787e-10	1.000000	3.36787e-10	1.000000
rad27	3.02795e-10	1.000000	3.02795e-10	1.000000
rad25	2.06099e-10	1.000000	2.06099e-10	1.000000
rad46	2.41118e-11	1.000000	2.41118e-11	1.000000
rad45	5.72258e-12	1.000000	5.72258e-12	1.000000
rad60syn	4.50648e-13	1.000000	4.50648e-13	1.000000
rad36	3.56472e-13	1.000000	3.56472e-13	1.000000
rad22	2.38651e-13	1.000000	2.38651e-13	1.000000
rad31	9.85820e-15	1.000000	9.85820e-15	1.000000
PhCH2CCH+H	7.93277e-15	1.000000	7.93277e-15	1.000000
rad60anti	5.91577e-15	1.000000	5.91577e-15	1.000000
rad37	1.66499e-15	1.000000	1.66499e-15	1.000000
rad20	1.45979e-15	1.000000	1.45979e-15	1.000000
rad21	1.06650e-15	1.000000	1.06650e-15	1.000000
rad18	1.57429e-17	1.000000	1.57429e-17	1.000000
rad5	2.00382e-18	1.000000	2.00382e-18	1.000000
rad24	7.24639e-20	1.000000	7.24639e-20	1.000000
PAH3+H	1.49184e-22	1.000000	1.49184e-22	1.000000
rad59	7.63094e-23	1.000000	7.63094e-23	1.000000
rad50	1.58331e-23	1.000000	1.58331e-23	1.000000
Benzene+2-propynyl	9.80165e-26	1.000000	9.80165e-26	1.000000
rad19syn	1.28426e-29	1.000000	1.28426e-29	1.000000
rad52	1.24163e-33	1.000000	1.24163e-33	1.000000
rad54	4.21113e-34	1.000000	4.21113e-34	1.000000
PAH10+CH3	2.78707e-34	1.000000	2.78707e-34	1.000000
rad43	6.39487e-35	1.000000	6.39487e-35	1.000000
rad62	3.00336e-37	1.000000	3.00336e-37	1.000000

rad51	3.30801e-40	1.00000	3.30801e-40	1.00000
rad70	7.61980e-43	1.00000	7.61980e-43	1.00000
PhcycC3H3_A+H	3.39895e-43	1.00000	3.39895e-43	1.00000
rad55	1.82123e-43	1.00000	1.82123e-43	1.00000
rad65	3.94588e-45	1.00000	3.94588e-45	1.00000
rad58	1.19163e-46	1.00000	1.19163e-46	1.00000
PAH1+H	2.30008e-48	1.00000	2.30008e-48	1.00000
rad34	1.57278e-50	1.00000	1.57278e-50	1.00000
rad42	1.27995e-54	1.00000	1.27995e-54	1.00000
rad41	1.63386e-55	1.00000	1.63386e-55	1.00000
rad47	3.63467e-56	1.00000	3.63467e-56	1.00000

0.100000000E-02 Pa, 30.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	5.03204e-39	(1.00)	5.03204e-39	(1.00)
Formation of rad11	5.03203e-39	(1.000)	5.03203e-39	(1.000)
Formation of rad6	9.92181e-45	(1.97e-06)	9.92181e-45	(1.97e-06)
H-abstraction	3.33191e-55	(6.62e-17)	3.33191e-55	(6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.627757	0.627757	0.627757	0.627757
Indene+H	0.367885	0.995642	0.367885	0.995642
C2H2+PhCH2	0.00247082	0.998113	0.00247082	0.998113
PhCCH+CH3	0.000470576	0.998583	0.000470576	0.998583
rad2	0.000411909	0.998995	0.000411909	0.998995
rad28	0.000336580	0.999332	0.000336580	0.999332
PhCHCCH2+H	0.000305882	0.999638	0.000305882	0.999638
PhCCCH3+H	0.000175887	0.999814	0.000175887	0.999814
rad26	6.55514e-05	0.999879	6.55514e-05	0.999879
rad7	5.17495e-05	0.999931	5.17495e-05	0.999931
rad1	2.60488e-05	0.999957	2.60488e-05	0.999957
rad10	2.17494e-05	0.999979	2.17494e-05	0.999979
rad11	1.29850e-05	0.999992	1.29850e-05	0.999992
rad3	2.66993e-06	0.999994	2.66993e-06	0.999994
Ph+MeAc	1.73659e-06	0.999996	1.73659e-06	0.999996
rad8	1.35882e-06	0.999998	1.35882e-06	0.999998
rad4	1.34999e-06	0.999999	1.34999e-06	0.999999
rad9	7.31796e-07	1.000000	7.31796e-07	1.000000
rad13	2.52261e-07	1.000000	2.52261e-07	1.000000
PAH7+H	1.94420e-07	1.000000	1.94420e-07	1.000000
rad30	1.24863e-07	1.000000	1.24863e-07	1.000000
rad12	3.08437e-08	1.000000	3.08437e-08	1.000000
PAH9+H	2.49692e-08	1.000000	2.49692e-08	1.000000
rad15	2.16312e-08	1.000000	2.16312e-08	1.000000
rad39	1.72188e-08	1.000000	1.72188e-08	1.000000
rad35	1.33692e-08	1.000000	1.33692e-08	1.000000
Phenyl+Allene	7.83891e-09	1.000000	0.000000	1.000000
rad38	6.32156e-09	1.000000	6.32156e-09	1.000000
rad33	4.75685e-10	1.000000	4.75685e-10	1.000000
rad14	2.64421e-10	1.000000	2.64421e-10	1.000000
rad27	2.30116e-10	1.000000	2.30116e-10	1.000000
rad25	1.68933e-10	1.000000	1.68933e-10	1.000000
rad23	5.98533e-11	1.000000	5.98533e-11	1.000000
rad46	3.79207e-11	1.000000	3.79207e-11	1.000000
rad60syn	6.75612e-13	1.000000	6.75612e-13	1.000000
rad45	6.10998e-13	1.000000	6.10998e-13	1.000000
rad36	3.80488e-14	1.000000	3.80488e-14	1.000000
rad22	2.65448e-14	1.000000	2.65448e-14	1.000000
rad60anti	1.12993e-14	1.000000	1.12993e-14	1.000000
PhCH2CCH+H	9.69469e-15	1.000000	9.69469e-15	1.000000
rad31	7.45815e-15	1.000000	7.45815e-15	1.000000
rad37	1.84164e-15	1.000000	1.84164e-15	1.000000
rad20	1.17012e-15	1.000000	1.17012e-15	1.000000
rad21	8.57837e-16	1.000000	8.57837e-16	1.000000
Benzene+2-propynyl	6.62139e-17	1.000000	6.62139e-17	1.000000
rad18	8.61177e-18	1.000000	8.61177e-18	1.000000
rad5	1.96070e-18	1.000000	1.96070e-18	1.000000
rad24	8.50162e-21	1.000000	8.50162e-21	1.000000
PAH3+H	1.10951e-22	1.000000	1.10951e-22	1.000000
rad59	5.76230e-23	1.000000	5.76230e-23	1.000000
rad50	1.35687e-23	1.000000	1.35687e-23	1.000000
rad19syn	2.49803e-30	1.000000	2.49803e-30	1.000000
rad52	2.61721e-34	1.000000	2.61721e-34	1.000000
rad54	5.48587e-35	1.000000	5.48587e-35	1.000000
PAH10+CH3	3.62185e-35	1.000000	3.62185e-35	1.000000
rad43	8.30879e-36	1.000000	8.30879e-36	1.000000
rad62	3.23820e-38	1.000000	3.23820e-38	1.000000

rad51	3.58607e-41	1.00000	3.58607e-41	1.00000
rad70	5.98037e-44	1.00000	5.98037e-44	1.00000
PhcycC3H3_A+H	2.60902e-44	1.00000	2.60902e-44	1.00000
rad55	1.40109e-44	1.00000	1.40109e-44	1.00000
rad65	3.35690e-46	1.00000	3.35690e-46	1.00000
rad58	8.98142e-48	1.00000	8.98142e-48	1.00000
PAH1+H	1.50008e-49	1.00000	1.50008e-49	1.00000
rad34	1.00343e-51	1.00000	1.00343e-51	1.00000
rad42	7.75605e-56	1.00000	7.75605e-56	1.00000
rad41	9.85725e-57	1.00000	9.85725e-57	1.00000
rad47	1.24410e-57	1.00000	1.24410e-57	1.00000

0.100000000E-02 Pa, 40.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	9.35697e-33	(1.00)	9.35697e-33	(1.00)
Formation of rad11	9.35644e-33	(1.000)	9.35644e-33	(1.000)
Formation of rad6	5.26139e-37	(5.62e-05)	5.26139e-37	(5.62e-05)
H-abstraction	1.44763e-44	(1.55e-12)	1.44763e-44	(1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
rad6	0.520115	0.520115	0.520115	0.520115
Indene+H	0.474477	0.994592	0.474477	0.994592
C2H2+PhCH2	0.00323830	0.997830	0.00323830	0.997830
PhCCH+CH3	0.000673057	0.998503	0.000673057	0.998503
PhCHCCH2+H	0.000435775	0.998939	0.000435775	0.998939
rad28	0.000326869	0.999266	0.000326869	0.999266
rad2	0.000325565	0.999592	0.000325565	0.999592
PhCCCH3+H	0.000252697	0.999844	0.000252697	0.999844
rad26	5.59668e-05	0.999900	5.59668e-05	0.999900
rad7	4.17886e-05	0.999942	4.17886e-05	0.999942
rad1	2.06138e-05	0.999963	2.06138e-05	0.999963
rad10	1.69972e-05	0.999980	1.69972e-05	0.999980
rad11	1.04352e-05	0.999990	1.04352e-05	0.999990
Ph+MeAc	2.70718e-06	0.999993	2.70718e-06	0.999993
rad3	2.09084e-06	0.999995	2.09084e-06	0.999995
rad8	1.97971e-06	0.999997	1.97971e-06	0.999997
rad4	1.05751e-06	0.999998	1.05751e-06	0.999998
rad9	1.00438e-06	0.999999	1.00438e-06	0.999999
PAH7+H	3.37576e-07	0.999999	3.37576e-07	0.999999
rad13	2.09085e-07	0.999999	2.09085e-07	0.999999
rad30	1.64639e-07	1.000000	1.64639e-07	1.000000
rad12	4.98110e-08	1.000000	4.98110e-08	1.000000
PAH9+H	3.30041e-08	1.000000	3.30041e-08	1.000000
rad39	3.08243e-08	1.000000	3.08243e-08	1.000000
rad15	2.86540e-08	1.000000	2.86540e-08	1.000000
rad35	1.76277e-08	1.000000	1.76277e-08	1.000000
Phenyl+Allene	1.41560e-08	1.000000	0.000000	1.000000
rad38	8.37443e-09	1.000000	8.37443e-09	1.000000
rad33	3.94640e-10	1.000000	3.94640e-10	1.000000
rad14	2.15124e-10	1.000000	2.15124e-10	1.000000
rad27	1.83093e-10	1.000000	1.83093e-10	1.000000
rad25	1.40277e-10	1.000000	1.40277e-10	1.000000
rad46	5.10597e-11	1.000000	5.10597e-11	1.000000
rad23	1.66737e-11	1.000000	1.66737e-11	1.000000
Benzene+2-propynyl	1.54712e-12	1.000000	1.54712e-12	1.000000
rad60syn	9.26576e-13	1.000000	9.26576e-13	1.000000
rad45	1.62597e-13	1.000000	1.62597e-13	1.000000
rad60anti	2.13804e-14	1.000000	2.13804e-14	1.000000
PhCH2CCH+H	1.27095e-14	1.000000	1.27095e-14	1.000000
rad36	1.01193e-14	1.000000	1.01193e-14	1.000000
rad22	7.42383e-15	1.000000	7.42383e-15	1.000000
rad31	5.93198e-15	1.000000	5.93198e-15	1.000000
rad37	2.25377e-15	1.000000	2.25377e-15	1.000000
rad20	9.80352e-16	1.000000	9.80352e-16	1.000000
rad21	7.19957e-16	1.000000	7.19957e-16	1.000000
rad18	6.17862e-18	1.000000	6.17862e-18	1.000000
rad5	2.23746e-18	1.000000	2.23746e-18	1.000000
rad24	2.40174e-21	1.000000	2.40174e-21	1.000000
PAH3+H	1.07800e-22	1.000000	1.07800e-22	1.000000
rad59	5.63772e-23	1.000000	5.63772e-23	1.000000
rad50	1.43009e-23	1.000000	1.43009e-23	1.000000
rad19syn	1.30058e-30	1.000000	1.30058e-30	1.000000
rad52	1.40457e-34	1.000000	1.40457e-34	1.000000
rad54	2.48534e-35	1.000000	2.48534e-35	1.000000
PAH10+CH3	1.64421e-35	1.000000	1.64421e-35	1.000000
rad43	3.77131e-36	1.000000	3.77131e-36	1.000000
rad62	1.38807e-38	1.000000	1.38807e-38	1.000000

rad51	1.53717e-41	1.000000	1.53717e-41	1.000000
rad70	2.36940e-44	1.000000	2.36940e-44	1.000000
PhcycC3H3_A+H	1.02948e-44	1.000000	1.02948e-44	1.000000
rad55	5.53024e-45	1.000000	5.53024e-45	1.000000
rad65	1.35228e-46	1.000000	1.35228e-46	1.000000
rad58	3.53246e-48	1.000000	3.53246e-48	1.000000
PAH1+H	5.79098e-50	1.000000	5.79098e-50	1.000000
rad34	3.87954e-52	1.000000	3.87954e-52	1.000000
rad42	3.01810e-56	1.000000	3.01810e-56	1.000000
rad41	3.87043e-57	1.000000	3.87043e-57	1.000000
rad47	3.27249e-58	1.000000	3.27249e-58	1.000000

0.100000000E-02 Pa, 50.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.52690e-29 (1.00)	5.52690e-29 (1.00)
Formation of rad11	5.52459e-29 (1.000)	5.52459e-29 (1.000)
Formation of rad6	2.30840e-32 (0.000418)	2.30840e-32 (0.000418)
H-abstraction	3.35357e-38 (6.07e-10)	3.35357e-38 (6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.560774	0.560774	0.560774	0.560774
rad6	0.432849	0.993623	0.432850	0.993624
C2H2+PhCH2	0.00393100	0.997554	0.00393100	0.997555
PhCCH+CH3	0.000868719	0.998423	0.000868719	0.998424
PhCHCCH2+H	0.000558742	0.998981	0.000558742	0.998982
PhCCCH3+H	0.000326475	0.999308	0.000326475	0.999309
rad28	0.000297644	0.999606	0.000297644	0.999607
rad2	0.000262382	0.999868	0.000262382	0.999869
rad26	4.69974e-05	0.999915	4.69974e-05	0.999916
rad7	3.42362e-05	0.999949	3.42362e-05	0.999950
rad1	1.66424e-05	0.999966	1.66424e-05	0.999967
rad10	1.36058e-05	0.999979	1.36058e-05	0.999980
rad11	8.52758e-06	0.999988	8.52758e-06	0.999989
Ph+MeAc	3.87806e-06	0.999992	3.87806e-06	0.999993
rad8	2.60069e-06	0.999994	2.60069e-06	0.999995
rad3	1.67619e-06	0.999996	1.67619e-06	0.999997
rad9	1.29565e-06	0.999997	1.29565e-06	0.999998
rad4	8.48169e-07	0.999998	8.48169e-07	0.999999
PAH7+H	5.00602e-07	0.999999	5.00602e-07	1.000000
rad30	2.01836e-07	0.999999	2.01836e-07	1.000000
rad13	1.74196e-07	0.999999	1.74196e-07	1.000000
rad12	7.04297e-08	0.999999	7.04297e-08	1.000000
rad39	4.76756e-08	0.999999	4.76756e-08	1.000000
PAH9+H	4.06097e-08	0.999999	4.06097e-08	1.000000
rad15	3.53914e-08	0.999999	3.53914e-08	1.000000
Phenyl+Allene	2.53625e-08	0.999999	0.000000	1.000000
rad35	2.16040e-08	0.999999	2.16040e-08	1.000000
rad38	1.03412e-08	0.999999	1.03412e-08	1.000000
Benzene+2-propynyl	6.06773e-10	0.999999	6.06773e-10	1.000000
rad33	3.29062e-10	0.999999	3.29062e-10	1.000000
rad14	1.77424e-10	0.999999	1.77424e-10	1.000000
rad27	1.48530e-10	0.999999	1.48530e-10	1.000000
rad25	1.17092e-10	0.999999	1.17092e-10	1.000000
rad46	6.46982e-11	0.999999	6.46982e-11	1.000000
rad23	6.63457e-12	0.999999	6.63457e-12	1.000000
rad60syn	1.26565e-12	0.999999	1.26565e-12	1.000000
rad45	6.27910e-14	0.999999	6.27910e-14	1.000000
rad60anti	4.71550e-14	0.999999	4.71550e-14	1.000000
PhCH2CCH+H	2.12398e-14	0.999999	2.12398e-14	1.000000
rad31	4.82814e-15	0.999999	4.82814e-15	1.000000
rad36	3.90476e-15	0.999999	3.90476e-15	1.000000
rad37	3.58939e-15	0.999999	3.58939e-15	1.000000
rad22	3.02285e-15	0.999999	3.02285e-15	1.000000
rad20	8.37089e-16	0.999999	8.37089e-16	1.000000
rad21	6.15670e-16	0.999999	6.15670e-16	1.000000
rad18	4.84792e-18	0.999999	4.84792e-18	1.000000
rad5	3.41207e-18	0.999999	3.41207e-18	1.000000
rad24	9.75652e-22	0.999999	9.75652e-22	1.000000
PAH3+H	1.48612e-22	0.999999	1.48612e-22	1.000000
rad59	7.80068e-23	0.999999	7.80068e-23	1.000000
rad50	2.07211e-23	0.999999	2.07211e-23	1.000000
rad19syn	1.30117e-30	0.999999	1.30117e-30	1.000000
rad52	1.42262e-34	0.999999	1.42262e-34	1.000000
rad54	2.36885e-35	0.999999	2.36885e-35	1.000000
PAH10+CH3	1.57695e-35	0.999999	1.57695e-35	1.000000
rad43	3.61655e-36	0.999999	3.61655e-36	1.000000
rad62	1.31045e-38	0.999999	1.31045e-38	1.000000

rad51	1.44627e-41	0.999999	1.44627e-41	1.00000
rad70	2.23058e-44	0.999999	2.23058e-44	1.00000
PhcycC3H3_A+H	9.70986e-45	0.999999	9.70986e-45	1.00000
rad55	5.21455e-45	0.999999	5.21455e-45	1.00000
rad65	1.26779e-46	0.999999	1.26779e-46	1.00000
rad58	3.33752e-48	0.999999	3.33752e-48	1.00000
PAH1+H	5.60578e-50	0.999999	5.60578e-50	1.00000
rad34	3.79260e-52	0.999999	3.79260e-52	1.00000
rad42	3.05241e-56	0.999999	3.05241e-56	1.00000
rad41	4.02910e-57	0.999999	4.02910e-57	1.00000
rad47	2.39595e-58	0.999999	2.39595e-58	1.00000

0.100000000E-02 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.83429e-26 (1.00)	1.83429e-26 (1.00)
Formation of rad11	1.83139e-26 (0.998)	1.83139e-26 (0.998)
Formation of rad6	2.90471e-29 (0.00158)	2.90471e-29 (0.00158)
H-abstraction	5.71259e-34 (3.11e-08)	5.71259e-34 (3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.631945	0.631945	0.631945	0.631945
rad6	0.360744	0.992689	0.360744	0.992689
C2H2+PhCH2	0.00457687	0.997266	0.00457687	0.997266
PhCCH+CH3	0.00106512	0.998331	0.00106512	0.998331
PhCHCCH2+H	0.000679501	0.999010	0.000679501	0.999010
PhCCCH3+H	0.000400016	0.999410	0.000400016	0.999410
rad28	0.000262989	0.999673	0.000262989	0.999673
rad2	0.000213503	0.999887	0.000213503	0.999887
rad26	3.92798e-05	0.999926	3.92798e-05	0.999926
rad7	2.82300e-05	0.999954	2.82300e-05	0.999954
rad1	1.35714e-05	0.999968	1.35714e-05	0.999968
rad10	1.10210e-05	0.999979	1.10210e-05	0.999979
rad11	7.02083e-06	0.999986	7.02083e-06	0.999986
Ph+MeAc	5.34076e-06	0.999991	5.34076e-06	0.999991
rad8	3.24635e-06	0.999995	3.24635e-06	0.999995
rad9	1.61811e-06	0.999996	1.61811e-06	0.999996
rad3	1.35927e-06	0.999998	1.35927e-06	0.999998
rad4	6.88182e-07	0.999998	6.88182e-07	0.999998
PAH7+H	6.87791e-07	0.999999	6.87791e-07	0.999999
rad30	2.37861e-07	0.999999	2.37862e-07	0.999999
rad13	1.45401e-07	0.999999	1.45401e-07	0.999999
rad12	9.35044e-08	1.000000	9.35044e-08	1.000000
rad39	6.87695e-08	1.000000	6.87695e-08	1.000000
PAH9+H	4.80772e-08	1.000000	4.80772e-08	1.000000
Phenyl+Allene	4.43517e-08	1.000000	0.000000	1.000000
rad15	4.20939e-08	1.000000	4.20939e-08	1.000000
Benzene+2-propynyl	3.11432e-08	1.000000	3.11432e-08	1.000000
rad35	2.54518e-08	1.000000	2.54518e-08	1.000000
rad38	1.22968e-08	1.000000	1.22968e-08	1.000000
rad33	2.74899e-10	1.000000	2.74899e-10	1.000000
rad14	1.47208e-10	1.000000	1.47208e-10	1.000000
rad27	1.21635e-10	1.000000	1.21635e-10	1.000000
rad25	9.79236e-11	1.000000	9.79236e-11	1.000000
rad46	7.94281e-11	1.000000	7.94281e-11	1.000000
rad23	3.19964e-12	1.000000	3.19964e-12	1.000000
rad60syn	1.73952e-12	1.000000	1.73952e-12	1.000000
rad60anti	1.05025e-13	1.000000	1.05025e-13	1.000000
PhCH2CCH+H	5.63442e-14	1.000000	5.63442e-14	1.000000
rad45	2.96302e-14	1.000000	2.96302e-14	1.000000
rad37	9.06562e-15	1.000000	9.06562e-15	1.000000
rad31	3.97935e-15	1.000000	3.97935e-15	1.000000
rad36	1.84108e-15	1.000000	1.84108e-15	1.000000
rad22	1.50531e-15	1.000000	1.50531e-15	1.000000
rad20	7.22153e-16	1.000000	7.22153e-16	1.000000
rad21	5.31948e-16	1.000000	5.31948e-16	1.000000
rad5	8.35578e-18	1.000000	8.35578e-18	1.000000
rad18	3.96631e-18	1.000000	3.96631e-18	1.000000
rad24	4.83819e-22	1.000000	4.83820e-22	1.000000
PAH3+H	3.38719e-22	1.000000	3.38719e-22	1.000000
rad59	1.78169e-22	1.000000	1.78169e-22	1.000000
rad50	4.88501e-23	1.000000	4.88501e-23	1.000000
rad19syn	2.52083e-30	1.000000	2.52083e-30	1.000000
rad52	2.76598e-34	1.000000	2.76598e-34	1.000000
rad54	4.56739e-35	1.000000	4.56739e-35	1.000000
PAH10+CH3	3.08137e-35	1.000000	3.08137e-35	1.000000
rad43	7.06704e-36	1.000000	7.06704e-36	1.000000
rad62	2.56723e-38	1.000000	2.56723e-38	1.000000

rad51	2.80927e-41	1.000000	2.80927e-41	1.000000
rad70	4.50490e-44	1.000000	4.50490e-44	1.000000
PhcycC3H3_A+H	1.97054e-44	1.000000	1.97054e-44	1.000000
rad55	1.05763e-44	1.000000	1.05763e-44	1.000000
rad65	2.52428e-46	1.000000	2.52428e-46	1.000000
rad58	6.80184e-48	1.000000	6.80184e-48	1.000000
PAH1+H	1.19670e-49	1.000000	1.19670e-49	1.000000
rad34	8.21306e-52	1.000000	8.21307e-52	1.000000
rad42	7.10290e-56	1.000000	7.10290e-56	1.000000
rad41	1.02795e-56	1.000000	1.02795e-56	1.000000
rad47	4.09138e-58	1.000000	4.09138e-58	1.000000

0.100000000E-02 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17336e-24 (1.00)	1.17336e-24 (1.00)
Formation of rad11	1.16857e-24 (0.996)	1.16857e-24 (0.996)
Formation of rad6	4.79505e-27 (0.00409)	4.79505e-27 (0.00409)
H-abstraction	5.89821e-31 (5.03e-07)	5.89821e-31 (5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.691169	0.691169	0.691169	0.691169
rad6	0.300595	0.991764	0.300595	0.991764
C2H2+PhCH2	0.00519229	0.996956	0.00519229	0.996956
PhCCH+CH3	0.00126706	0.998223	0.00126706	0.998223
PhCHCCH2+H	0.000800930	0.999024	0.000800930	0.999024
PhCCCH3+H	0.000475052	0.999499	0.000475052	0.999499
rad28	0.000228348	0.999727	0.000228348	0.999727
rad2	0.000174582	0.999902	0.000174582	0.999902
rad26	3.27532e-05	0.999935	3.27532e-05	0.999935
rad7	2.33419e-05	0.999958	2.33419e-05	0.999958
rad1	1.11250e-05	0.999969	1.11250e-05	0.999969
rad10	8.98311e-06	0.999978	8.98311e-06	0.999978
Ph+MeAc	7.19685e-06	0.999985	7.19685e-06	0.999985
rad11	5.79949e-06	0.999991	5.79949e-06	0.999991
rad8	3.93356e-06	0.999995	3.93356e-06	0.999995
rad9	1.98228e-06	0.999997	1.98228e-06	0.999997
rad3	1.10885e-06	0.999998	1.10885e-06	0.999998
PAH7+H	9.04768e-07	0.999999	9.04768e-07	0.999999
rad4	5.61755e-07	0.999999	5.61755e-07	0.999999
Benzene+2-propynyl	5.02676e-07	1.000000	5.02676e-07	1.000000
rad30	2.73573e-07	1.000000	2.73573e-07	1.000000
rad13	1.21379e-07	1.000000	1.21379e-07	1.000000
rad12	1.19810e-07	1.000000	1.19810e-07	1.000000
rad39	9.53543e-08	1.000000	9.53543e-08	1.000000
Phenyl+Allene	7.53941e-08	1.000000	0.000000	1.000000
PAH9+H	5.55924e-08	1.000000	5.55924e-08	1.000000
rad15	4.89226e-08	1.000000	4.89226e-08	1.000000
rad35	2.92661e-08	1.000000	2.92661e-08	1.000000
rad38	1.42906e-08	1.000000	1.42906e-08	1.000000
rad33	2.29687e-10	1.000000	2.29687e-10	1.000000
rad14	1.22434e-10	1.000000	1.22434e-10	1.000000
rad27	1.00081e-10	1.000000	1.00081e-10	1.000000
rad46	9.57550e-11	1.000000	9.57550e-11	1.000000
rad25	8.19026e-11	1.000000	8.19026e-11	1.000000
rad60syn	2.39357e-12	1.000000	2.39357e-12	1.000000
rad23	1.73810e-12	1.000000	1.73810e-12	1.000000
PhCH2CCH+H	2.83323e-13	1.000000	2.83323e-13	1.000000
rad60anti	2.13984e-13	1.000000	2.13984e-13	1.000000
rad37	4.71093e-14	1.000000	4.71093e-14	1.000000
rad45	1.58271e-14	1.000000	1.58271e-14	1.000000
rad31	3.30436e-15	1.000000	3.30436e-15	1.000000
rad36	9.82652e-16	1.000000	9.82652e-16	1.000000
rad22	8.48193e-16	1.000000	8.48193e-16	1.000000
rad20	6.26684e-16	1.000000	6.26684e-16	1.000000
rad21	4.62367e-16	1.000000	4.62367e-16	1.000000
rad5	4.47731e-17	1.000000	4.47731e-17	1.000000
rad18	3.31978e-18	1.000000	3.31978e-18	1.000000
PAH3+H	1.81983e-21	1.000000	1.81983e-21	1.000000
rad59	9.58304e-22	1.000000	9.58304e-22	1.000000
rad24	2.72414e-22	1.000000	2.72414e-22	1.000000
rad50	2.64779e-22	1.000000	2.64779e-22	1.000000
rad19syn	1.20986e-29	1.000000	1.20986e-29	1.000000
rad52	1.32569e-33	1.000000	1.32569e-33	1.000000
rad54	2.23657e-34	1.000000	2.23657e-34	1.000000
PAH10+CH3	1.54650e-34	1.000000	1.54650e-34	1.000000
rad43	3.54876e-35	1.000000	3.54876e-35	1.000000
rad62	1.30431e-37	1.000000	1.30431e-37	1.000000

rad51	1.40234e-40	1.00000	1.40234e-40	1.00000
rad70	2.39144e-43	1.00000	2.39144e-43	1.00000
PhcycC3H3_A+H	1.05308e-43	1.00000	1.05308e-43	1.00000
rad55	5.64756e-44	1.00000	5.64756e-44	1.00000
rad65	1.31345e-45	1.00000	1.31345e-45	1.00000
rad58	3.65596e-47	1.00000	3.65596e-47	1.00000
PAH1+H	6.83659e-49	1.00000	6.83659e-49	1.00000
rad34	4.77477e-51	1.00000	4.77477e-51	1.00000
rad42	4.96350e-55	1.00000	4.96350e-55	1.00000
rad41	9.42669e-56	1.00000	9.42669e-56	1.00000
rad47	1.93620e-57	1.00000	1.93620e-57	1.00000

0.100000000E-02 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.68112e-23 (1.00)	2.68112e-23 (1.00)
Formation of rad11	2.65890e-23 (0.992)	2.65889e-23 (0.992)
Formation of rad6	2.22189e-25 (0.00829)	2.22189e-25 (0.00829)
H-abstraction	1.05871e-28 (3.95e-06)	1.05871e-28 (3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.740678	0.740678	0.740678	0.740678
rad6	0.250144	0.990822	0.250145	0.990823
C2H2+PhCH2	0.00578964	0.996612	0.00578964	0.996613
PhCCH+CH3	0.00147871	0.998090	0.00147871	0.998091
PhCHCCH2+H	0.000925377	0.999016	0.000925377	0.999017
PhCCCH3+H	0.000553037	0.999569	0.000553037	0.999570
rad28	0.000195947	0.999765	0.000195947	0.999766
rad2	0.000143060	0.999908	0.000143060	0.999909
rad26	2.72541e-05	0.999935	2.72541e-05	0.999936
rad7	1.93118e-05	0.999954	1.93118e-05	0.999955
Ph+MeAc	9.57416e-06	0.999964	9.57416e-06	0.999965
rad1	9.14181e-06	0.999973	9.14181e-06	0.999974
rad10	7.34406e-06	0.999980	7.34406e-06	0.999981
rad11	4.79513e-06	0.999985	4.79513e-06	0.999986
rad8	4.67819e-06	0.999990	4.67819e-06	0.999991
Benzene+2-propynyl	3.94877e-06	0.999994	3.94877e-06	0.999995
rad9	2.39997e-06	0.999996	2.39997e-06	0.999997
PAH7+H	1.15886e-06	0.999997	1.15886e-06	0.999998
rad3	9.07102e-07	0.999998	9.07102e-07	0.999999
rad4	4.59877e-07	0.999999	4.59877e-07	1.000000
rad30	3.09681e-07	0.999999	3.09681e-07	1.000000
rad12	1.50231e-07	0.999999	1.50231e-07	1.000000
rad39	1.29044e-07	0.999999	1.29044e-07	1.000000
Phenyl+Allene	1.24735e-07	1.000000	0.000000	1.000000
rad13	1.01216e-07	1.000000	1.01216e-07	1.000000
PAH9+H	6.33188e-08	1.000000	6.33188e-08	1.000000
rad15	5.60217e-08	1.000000	5.60217e-08	1.000000
rad35	3.31267e-08	1.000000	3.31267e-08	1.000000
rad38	1.63675e-08	1.000000	1.63675e-08	1.000000
rad33	1.91712e-10	1.000000	1.91712e-10	1.000000
rad46	1.14257e-10	1.000000	1.14257e-10	1.000000
rad14	1.01865e-10	1.000000	1.01865e-10	1.000000
rad27	8.25100e-11	1.000000	8.25101e-11	1.000000
rad25	6.84278e-11	1.000000	6.84278e-11	1.000000
rad60syn	3.28950e-12	1.000000	3.28950e-12	1.000000
PhCH2CCH+H	1.78180e-12	1.000000	1.78180e-12	1.000000
rad23	1.02282e-12	1.000000	1.02282e-12	1.000000
rad60anti	3.96097e-13	1.000000	3.96097e-13	1.000000
rad37	3.58097e-13	1.000000	3.58097e-13	1.000000
rad45	9.18858e-15	1.000000	9.18858e-15	1.000000
rad31	2.75624e-15	1.000000	2.75624e-15	1.000000
rad36	5.70097e-16	1.000000	5.70097e-16	1.000000
rad20	5.45595e-16	1.000000	5.45595e-16	1.000000
rad22	5.18891e-16	1.000000	5.18891e-16	1.000000
rad5	4.16607e-16	1.000000	4.16607e-16	1.000000
rad21	4.03226e-16	1.000000	4.03226e-16	1.000000
rad18	2.81581e-18	1.000000	2.81581e-18	1.000000
PAH3+H	2.54299e-20	1.000000	2.54299e-20	1.000000
rad59	1.32024e-20	1.000000	1.32024e-20	1.000000
rad50	3.05339e-21	1.000000	3.05339e-21	1.000000
rad24	1.67646e-22	1.000000	1.67646e-22	1.000000
rad19syn	6.09204e-28	1.000000	6.09205e-28	1.000000
rad52	6.36997e-32	1.000000	6.36997e-32	1.000000
rad54	6.03121e-33	1.000000	6.03121e-33	1.000000
PAH10+CH3	4.18687e-33	1.000000	4.18688e-33	1.000000
rad43	9.61989e-34	1.000000	9.61989e-34	1.000000
rad62	3.64067e-36	1.000000	3.64068e-36	1.000000

rad51	3.88323e-39	1.000000	3.88323e-39	1.000000
rad70	7.14198e-42	1.000000	7.14198e-42	1.000000
PhcycC3H3_A+H	3.17000e-42	1.000000	3.17000e-42	1.000000
rad55	1.69837e-42	1.000000	1.69837e-42	1.000000
rad65	3.83151e-44	1.000000	3.83151e-44	1.000000
rad58	1.10800e-45	1.000000	1.10800e-45	1.000000
PAH1+H	2.22792e-47	1.000000	2.22792e-47	1.000000
rad34	1.58651e-49	1.000000	1.58651e-49	1.000000
rad42	2.21137e-53	1.000000	2.21137e-53	1.000000
rad41	5.71914e-54	1.000000	5.71915e-54	1.000000
rad47	5.35036e-56	1.000000	5.35036e-56	1.000000

0.100000000E-02 Pa, 90.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.08379e-22 (1.00)	3.08379e-22 (1.00)
Formation of rad11	3.03962e-22 (0.986)	3.03962e-22 (0.986)
Formation of rad6	4.41076e-24 (0.0143)	4.41076e-24 (0.0143)
H-abstraction	5.92916e-27 (1.92e-05)	5.92916e-27 (1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.782133	0.782133	0.782133	0.782133
rad6	0.207710	0.989843	0.207710	0.989843
C2H2+PhCH2	0.00637893	0.996222	0.00637893	0.996222
PhCCH+CH3	0.00170390	0.997926	0.00170390	0.997926
PhCHCCH2+H	0.00105487	0.998981	0.00105487	0.998981
PhCCCH3+H	0.000635251	0.999616	0.000635251	0.999616
rad28	0.000166643	0.999783	0.000166643	0.999783
rad2	0.000117267	0.999900	0.000117267	0.999900
rad26	2.26239e-05	0.999922	2.26239e-05	0.999922
Benzene+2-propynyl	1.92269e-05	0.999942	1.92269e-05	0.999942
rad7	1.59644e-05	0.999958	1.59644e-05	0.999958
Ph+MeAc	1.26276e-05	0.999970	1.26276e-05	0.999970
rad1	7.51663e-06	0.999978	7.51664e-06	0.999978
rad10	6.00970e-06	0.999984	6.00970e-06	0.999984
rad8	5.49567e-06	0.999989	5.49567e-06	0.999989
rad11	3.96230e-06	0.999993	3.96230e-06	0.999993
rad9	2.88437e-06	0.999996	2.88438e-06	0.999996
PAH7+H	1.45877e-06	0.999998	1.45877e-06	0.999998
rad3	7.42640e-07	0.999998	7.42640e-07	0.999998
rad4	3.76800e-07	0.999999	3.76800e-07	0.999999
rad30	3.46819e-07	0.999999	3.46819e-07	0.999999
Phenyl+Allene	2.01034e-07	0.999999	0.00000	0.999999
rad12	1.85730e-07	0.999999	1.85730e-07	0.999999
rad39	1.71806e-07	1.000000	1.71806e-07	0.999999
rad13	8.42336e-08	1.000000	8.42336e-08	1.000000
PAH9+H	7.14098e-08	1.000000	7.14098e-08	1.000000
rad15	6.35283e-08	1.000000	6.35283e-08	1.000000
rad35	3.71053e-08	1.000000	3.71053e-08	1.000000
rad38	1.85711e-08	1.000000	1.85711e-08	1.000000
rad33	1.59707e-10	1.000000	1.59707e-10	1.000000
rad46	1.35596e-10	1.000000	1.35596e-10	1.000000
rad14	8.46636e-11	1.000000	8.46636e-11	1.000000
rad27	6.80366e-11	1.000000	6.80366e-11	1.000000
rad25	5.70565e-11	1.000000	5.70565e-11	1.000000
PhCH2CCH+H	9.53999e-12	1.000000	9.53999e-12	1.000000
rad60syn	4.51344e-12	1.000000	4.51344e-12	1.000000
rad37	2.31127e-12	1.000000	2.31128e-12	1.000000
rad60anti	6.79197e-13	1.000000	6.79197e-13	1.000000
rad23	6.37094e-13	1.000000	6.37094e-13	1.000000
rad45	5.65979e-15	1.000000	5.65979e-15	1.000000
rad5	3.51340e-15	1.000000	3.51340e-15	1.000000
rad31	2.30506e-15	1.000000	2.30506e-15	1.000000
rad20	4.75695e-16	1.000000	4.75695e-16	1.000000
rad21	3.52201e-16	1.000000	3.52202e-16	1.000000
rad36	3.50962e-16	1.000000	3.50962e-16	1.000000
rad22	3.36297e-16	1.000000	3.36297e-16	1.000000
rad18	2.40727e-18	1.000000	2.40727e-18	1.000000
PAH3+H	3.72633e-19	1.000000	3.72633e-19	1.000000
rad59	1.87192e-19	1.000000	1.87192e-19	1.000000
rad50	3.39074e-20	1.000000	3.39074e-20	1.000000
rad24	1.10282e-22	1.000000	1.10282e-22	1.000000
rad19syn	1.58977e-25	1.000000	1.58977e-25	1.000000
rad52	1.34208e-29	1.000000	1.34208e-29	1.000000
rad54	7.76777e-30	1.000000	7.76777e-30	1.000000
PAH10+CH3	4.57298e-30	1.000000	4.57298e-30	1.000000
rad43	1.13071e-30	1.000000	1.13071e-30	1.000000
rad62	8.33366e-34	1.000000	8.33367e-34	1.000000

rad51	9.07386e-37	1.000000	9.07386e-37	1.000000
rad70	1.81253e-39	1.000000	1.81253e-39	1.000000
PhcycC3H3_A+H	8.11203e-40	1.000000	8.11203e-40	1.000000
rad55	4.34160e-40	1.000000	4.34160e-40	1.000000
rad65	9.47645e-42	1.000000	9.47645e-42	1.000000
rad58	2.85537e-43	1.000000	2.85537e-43	1.000000
PAH1+H	6.19193e-45	1.000000	6.19193e-45	1.000000
rad34	4.48689e-47	1.000000	4.48689e-47	1.000000
rad42	6.65109e-51	1.000000	6.65109e-51	1.000000
rad41	1.77538e-51	1.000000	1.77538e-51	1.000000
rad47	1.28159e-53	1.000000	1.28159e-53	1.000000

0.100000000E-02 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14497e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.816795	0.816795	0.816795	0.816795
rad6	0.171996	0.988792	0.171996	0.988792
C2H2+PhCH2	0.00696803	0.995760	0.00696803	0.995760
PhCCH+CH3	0.00194589	0.997706	0.00194589	0.997706
PhCHCCH2+H	0.00119108	0.998897	0.00119108	0.998897
PhCCCH3+H	0.000722757	0.999619	0.000722758	0.999619
rad28	0.000140673	0.999760	0.000140673	0.999760
rad2	9.60381e-05	0.999856	9.60382e-05	0.999856
Benzene+2-propynyl	6.70630e-05	0.999923	6.70630e-05	0.999923
rad26	1.87280e-05	0.999942	1.87280e-05	0.999942
Ph+MeAc	1.65350e-05	0.999958	1.65350e-05	0.999958
rad7	1.31736e-05	0.999972	1.31736e-05	0.999972
rad8	6.40027e-06	0.999978	6.40028e-06	0.999978
rad1	6.17664e-06	0.999984	6.17664e-06	0.999984
rad10	4.91566e-06	0.999989	4.91567e-06	0.999989
rad9	3.44949e-06	0.999993	3.44949e-06	0.999993
rad11	3.26880e-06	0.999996	3.26880e-06	0.999996
PAH7+H	1.81415e-06	0.999998	1.81415e-06	0.999998
rad3	6.07657e-07	0.999998	6.07657e-07	0.999998
rad30	3.85531e-07	0.999999	3.85531e-07	0.999999
Phenyl+Allene	3.15790e-07	0.999999	0.00000	0.999999
rad4	3.08584e-07	0.999999	3.08585e-07	0.999999
rad12	2.27292e-07	1.000000	2.27292e-07	0.999999
rad39	2.25900e-07	1.000000	2.25900e-07	0.999999
PAH9+H	8.00061e-08	1.000000	8.00061e-08	1.000000
rad15	7.15685e-08	1.000000	7.15685e-08	1.000000
rad13	6.99177e-08	1.000000	6.99178e-08	1.000000
rad35	4.12649e-08	1.000000	4.12650e-08	1.000000
rad38	2.09429e-08	1.000000	2.09429e-08	1.000000
rad46	1.60516e-10	1.000000	1.60516e-10	1.000000
rad33	1.32705e-10	1.000000	1.32705e-10	1.000000
rad14	7.02308e-11	1.000000	7.02308e-11	1.000000
rad27	5.60459e-11	1.000000	5.60459e-11	1.000000
rad25	4.74506e-11	1.000000	4.74506e-11	1.000000
PhCH2CCH+H	4.05264e-11	1.000000	4.05264e-11	1.000000
rad37	1.11105e-11	1.000000	1.11105e-11	1.000000
rad60syn	6.17840e-12	1.000000	6.17840e-12	1.000000
rad60anti	1.09968e-12	1.000000	1.09968e-12	1.000000
rad23	4.13887e-13	1.000000	4.13887e-13	1.000000
rad5	2.19976e-14	1.000000	2.19976e-14	1.000000
rad45	3.64244e-15	1.000000	3.64244e-15	1.000000
rad31	1.93046e-15	1.000000	1.93046e-15	1.000000
rad20	4.14874e-16	1.000000	4.14874e-16	1.000000
rad21	3.07759e-16	1.000000	3.07759e-16	1.000000
rad22	2.27326e-16	1.000000	2.27327e-16	1.000000
rad36	2.25776e-16	1.000000	2.25776e-16	1.000000
PAH3+H	3.75531e-18	1.000000	3.75531e-18	1.000000
rad18	2.06752e-18	1.000000	2.06752e-18	1.000000
rad59	1.81143e-18	1.000000	1.81143e-18	1.000000
rad50	2.69755e-19	1.000000	2.69755e-19	1.000000
rad24	7.64695e-23	1.000000	7.64696e-23	1.000000
rad19syn	1.72285e-23	1.000000	1.72285e-23	1.000000
rad54	3.50618e-27	1.000000	3.50618e-27	1.000000
PAH10+CH3	2.26931e-27	1.000000	2.26931e-27	1.000000
rad52	1.22254e-27	1.000000	1.22254e-27	1.000000
rad43	5.39984e-28	1.000000	5.39984e-28	1.000000
rad62	7.06008e-30	1.000000	7.06009e-30	1.000000

rad51	7.78146e-33	1.00000	7.78146e-33	1.000000
rad70	1.39345e-36	1.00000	1.39345e-36	1.000000
PhcycC3H3_A+H	6.29103e-37	1.00000	6.29104e-37	1.000000
rad55	3.36319e-37	1.00000	3.36319e-37	1.000000
rad65	7.08266e-39	1.00000	7.08266e-39	1.000000
rad58	2.23064e-40	1.00000	2.23064e-40	1.000000
PAH1+H	5.22885e-42	1.00000	5.22885e-42	1.000000
rad34	3.85079e-44	1.00000	3.85079e-44	1.000000
rad42	5.30512e-48	1.00000	5.30512e-48	1.000000
rad41	1.27005e-48	1.00000	1.27005e-48	1.000000
rad47	9.42355e-51	1.00000	9.42356e-51	1.000000

0.100000000E-02 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06527e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44008e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.845647	0.845647	0.845647	0.845647
rad6	0.141975	0.987622	0.141976	0.987623
C2H2+PhCH2	0.00756299	0.995185	0.00756300	0.995186
PhCCH+CH3	0.00220741	0.997392	0.00220741	0.997393
PhCHCCH2+H	0.00133527	0.998727	0.00133527	0.998728
PhCCCH3+H	0.000816382	0.999544	0.000816382	0.999545
Benzene+2-propynyl	0.000183695	0.999727	0.000183695	0.999728
rad28	0.000117985	0.999845	0.000117985	0.999846
rad2	7.85202e-05	0.999924	7.85202e-05	0.999925
Ph+MeAc	2.14959e-05	0.999945	2.14959e-05	0.999946
rad26	1.54556e-05	0.999961	1.54556e-05	0.999962
rad7	1.08447e-05	0.999972	1.08448e-05	0.999973
rad8	7.40460e-06	0.999979	7.40460e-06	0.999980
rad1	5.06854e-06	0.999984	5.06854e-06	0.999985
rad9	4.10975e-06	0.999988	4.10975e-06	0.999989
rad10	4.01550e-06	0.999992	4.01550e-06	0.999993
rad11	2.69054e-06	0.999995	2.69054e-06	0.999996
PAH7+H	2.23532e-06	0.999997	2.23533e-06	0.999998
rad3	4.96502e-07	0.999998	4.96503e-07	0.999999
Phenyl+Allene	4.83858e-07	0.999998	0.00000	0.999999
rad30	4.26275e-07	0.999999	4.26275e-07	0.999999
rad39	2.93857e-07	0.999999	2.93858e-07	0.999999
rad12	2.75889e-07	0.999999	2.75889e-07	1.000000
rad4	2.52383e-07	0.999999	2.52383e-07	1.000000
PAH9+H	8.92356e-08	0.999999	8.92356e-08	1.000000
rad15	8.02566e-08	1.000000	8.02566e-08	1.000000
rad13	5.78606e-08	1.000000	5.78606e-08	1.000000
rad35	4.56607e-08	1.000000	4.56607e-08	1.000000
rad38	2.35216e-08	1.000000	2.35216e-08	1.000000
rad46	1.89829e-10	1.000000	1.89829e-10	1.000000
PhCH2CCH+H	1.40403e-10	1.000000	1.40404e-10	1.000000
rad33	1.09944e-10	1.000000	1.09944e-10	1.000000
rad14	5.81123e-11	1.000000	5.81123e-11	1.000000
rad27	4.60871e-11	1.000000	4.60871e-11	1.000000
rad37	4.10173e-11	1.000000	4.10173e-11	1.000000
rad25	3.93436e-11	1.000000	3.93436e-11	1.000000
rad60syn	8.42626e-12	1.000000	8.42626e-12	1.000000
rad60anti	1.70510e-12	1.000000	1.70510e-12	1.000000
rad23	2.77687e-13	1.000000	2.77687e-13	1.000000
rad5	1.04298e-13	1.000000	1.04298e-13	1.000000
rad45	2.42424e-15	1.000000	2.42424e-15	1.000000
rad31	1.61789e-15	1.000000	1.61789e-15	1.000000
rad20	3.61677e-16	1.000000	3.61677e-16	1.000000
rad21	2.68841e-16	1.000000	2.68841e-16	1.000000
rad22	1.58608e-16	1.000000	1.58608e-16	1.000000
rad36	1.50231e-16	1.000000	1.50231e-16	1.000000
PAH3+H	2.62405e-17	1.000000	2.62406e-17	1.000000
rad59	1.21210e-17	1.000000	1.21210e-17	1.000000
rad18	1.78027e-18	1.000000	1.78027e-18	1.000000
rad50	1.56372e-18	1.000000	1.56372e-18	1.000000
rad19syn	8.10304e-22	1.000000	8.10304e-22	1.000000
rad24	5.53775e-23	1.000000	5.53775e-23	1.000000
rad54	3.81108e-25	1.000000	3.81108e-25	1.000000
PAH10+CH3	2.49137e-25	1.000000	2.49137e-25	1.000000
rad43	5.96037e-26	1.000000	5.96037e-26	1.000000
rad52	5.02558e-26	1.000000	5.02558e-26	1.000000
rad62	1.38221e-27	1.000000	1.38221e-27	1.000000

rad51	1.43957e-30	1.000000	1.43957e-30	1.00000
rad70	1.18604e-33	1.000000	1.18604e-33	1.00000
PhcycC3H3_A+H	5.40418e-34	1.000000	5.40419e-34	1.00000
rad55	2.88553e-34	1.000000	2.88553e-34	1.00000
rad65	1.72095e-34	1.000000	1.72096e-34	1.00000
rad58	1.93094e-37	1.000000	1.93094e-37	1.00000
PAH1+H	4.91119e-39	1.000000	4.91120e-39	1.00000
rad34	3.67822e-41	1.000000	3.67823e-41	1.00000
rad42	4.78094e-45	1.000000	4.78095e-45	1.00000
rad41	1.00331e-45	1.000000	1.00331e-45	1.00000
rad47	7.77111e-48	1.000000	7.77111e-48	1.00000

0.100000000E-02 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.869472	0.869472	0.869473	0.869473
rad6	0.116804	0.986276	0.116804	0.986277
C2H2+PhCH2	0.00816842	0.994444	0.00816843	0.994445
PhCCH+CH3	0.00249070	0.996935	0.00249070	0.996936
PhCHCCH2+H	0.00148843	0.998423	0.00148843	0.998424
PhCCCH3+H	0.000916746	0.999340	0.000916746	0.999341
Benzene+2-propynyl	0.000420064	0.999760	0.000420064	0.999761
rad28	9.83869e-05	0.999858	9.83870e-05	0.999859
rad2	6.40592e-05	0.999922	6.40593e-05	0.999923
Ph+MeAc	2.77304e-05	0.999950	2.77305e-05	0.999951
rad26	1.27140e-05	0.999963	1.27140e-05	0.999964
rad7	8.90314e-06	0.999972	8.90315e-06	0.999973
rad8	8.51966e-06	0.999980	8.51967e-06	0.999981
rad9	4.88013e-06	0.999985	4.88013e-06	0.999986
rad1	4.15163e-06	0.999989	4.15163e-06	0.999990
rad10	3.27408e-06	0.999993	3.27408e-06	0.999994
PAH7+H	2.73333e-06	0.999995	2.73334e-06	0.999996
rad11	2.20871e-06	0.999997	2.20872e-06	0.999998
Phenyl+Allene	7.24186e-07	0.999998	0.000000	0.999998
rad30	4.69442e-07	0.999999	4.69442e-07	0.999999
rad3	4.04891e-07	0.999999	4.04891e-07	0.999999
rad39	3.78499e-07	0.999999	3.78499e-07	1.000000
rad12	3.32478e-07	1.000000	3.32478e-07	1.000000
rad4	2.06033e-07	1.000000	2.06033e-07	1.000000
PAH9+H	9.92175e-08	1.000000	9.92176e-08	1.000000
rad15	8.96975e-08	1.000000	8.96975e-08	1.000000
rad35	5.03412e-08	1.000000	5.03412e-08	1.000000
rad13	4.77293e-08	1.000000	4.77293e-08	1.000000
rad38	2.63444e-08	1.000000	2.63444e-08	1.000000
PhCH2CCH+H	4.12484e-10	1.000000	4.12485e-10	1.000000
rad46	2.24447e-10	1.000000	2.24448e-10	1.000000
rad37	1.22457e-10	1.000000	1.22457e-10	1.000000
rad33	9.08003e-11	1.000000	9.08004e-11	1.000000
rad14	4.79492e-11	1.000000	4.79493e-11	1.000000
rad27	3.78141e-11	1.000000	3.78141e-11	1.000000
rad25	3.25175e-11	1.000000	3.25175e-11	1.000000
rad60syn	1.14322e-11	1.000000	1.14322e-11	1.000000
rad60anti	2.55701e-12	1.000000	2.55702e-12	1.000000
rad5	3.94462e-13	1.000000	3.94462e-13	1.000000
rad23	1.91110e-13	1.000000	1.91111e-13	1.000000
rad45	1.65691e-15	1.000000	1.65691e-15	1.000000
rad31	1.35646e-15	1.000000	1.35646e-15	1.000000
rad20	3.15037e-16	1.000000	3.15038e-16	1.000000
rad21	2.34673e-16	1.000000	2.34673e-16	1.000000
PAH3+H	1.36441e-16	1.000000	1.36441e-16	1.000000
rad22	1.13400e-16	1.000000	1.13401e-16	1.000000
rad36	1.02675e-16	1.000000	1.02675e-16	1.000000
rad59	6.03288e-17	1.000000	6.03288e-17	1.000000
rad50	7.02832e-18	1.000000	7.02832e-18	1.000000
rad18	1.53486e-18	1.000000	1.53486e-18	1.000000
rad19syn	2.01614e-20	1.000000	2.01614e-20	1.000000
rad24	4.16152e-23	1.000000	4.16153e-23	1.000000
rad54	1.78040e-23	1.000000	1.78040e-23	1.000000
PAH10+CH3	1.17571e-23	1.000000	1.17571e-23	1.000000
rad43	2.82808e-24	1.000000	2.82808e-24	1.000000
rad52	1.12102e-24	1.000000	1.12102e-24	1.000000
rad62	1.01438e-25	1.000000	1.01438e-25	1.000000

rad51	1.04835e-28	1.00000	1.04835e-28	1.00000
rad70	3.03240e-29	1.00000	3.03240e-29	1.00000
PhcycC3H3_A+H	1.82840e-29	1.00000	1.82840e-29	1.00000
rad55	1.01557e-29	1.00000	1.01557e-29	1.00000
rad65	3.61209e-32	1.00000	3.61209e-32	1.00000
rad58	8.74850e-33	1.00000	8.74851e-33	1.00000
PAH1+H	5.57808e-36	1.00000	5.57808e-36	1.00000
rad34	4.24823e-38	1.00000	4.24824e-38	1.00000
rad42	5.21225e-42	1.00000	5.21225e-42	1.00000
rad41	9.06659e-43	1.00000	9.06660e-43	1.00000
rad47	7.80028e-45	1.00000	7.80028e-45	1.00000

0.100000000E-02 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.33719e-19 (1.00)	1.33719e-19 (1.00)
Formation of rad11	1.26517e-19 (0.946)	1.26517e-19 (0.946)
Formation of rad6	7.08974e-21 (0.0530)	7.08973e-21 (0.0530)
H-abstraction	1.11864e-22 (0.000837)	1.11864e-22 (0.000837)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.888916	0.888916	0.888917	0.888917
rad6	0.0957694	0.984685	0.0957695	0.984686
C2H2+PhCH2	0.000878793	0.993473	0.000878794	0.993474
PhCCH+CH3	0.00279762	0.996271	0.00279762	0.996272
PhCHCCH2+H	0.00165130	0.997922	0.00165130	0.997923
PhCCCH3+H	0.00102430	0.998946	0.00102431	0.998947
Benzene+2-propynyl	0.000836559	0.999783	0.000836559	0.999784
rad28	8.16162e-05	0.999864	8.16163e-05	0.999866
rad2	5.21359e-05	0.999917	5.21360e-05	0.999918
Ph+MeAc	3.54827e-05	0.999952	3.54828e-05	0.999953
rad26	1.04247e-05	0.999963	1.04247e-05	0.999964
rad8	9.75528e-06	0.999972	9.75529e-06	0.999973
rad7	7.28797e-06	0.999980	7.28798e-06	0.999981
rad9	5.77636e-06	0.999985	5.77636e-06	0.999986
rad1	3.39360e-06	0.999989	3.39360e-06	0.999990
PAH7+H	3.32019e-06	0.999992	3.32020e-06	0.999993
rad10	2.66380e-06	0.999995	2.66380e-06	0.999996
rad11	1.80806e-06	0.999997	1.80806e-06	0.999998
Phenyl+Allene	1.06078e-06	0.999998	0.000000	0.999998
rad30	5.15382e-07	0.999998	5.15382e-07	0.999998
rad39	4.82990e-07	0.999999	4.82991e-07	0.999999
rad12	3.98007e-07	0.999999	3.98008e-07	0.999999
rad3	3.29443e-07	0.999999	3.29443e-07	0.999999
rad4	1.67837e-07	0.999999	1.67837e-07	1.000000
PAH9+H	1.10069e-07	1.000000	1.10069e-07	1.000000
rad15	9.99923e-08	1.000000	9.99933e-08	1.000000
rad35	5.53522e-08	1.000000	5.53523e-08	1.000000
rad13	3.92439e-08	1.000000	3.92439e-08	1.000000
rad38	2.94491e-08	1.000000	2.94492e-08	1.000000
PhCH2CCH+H	1.06245e-09	1.000000	1.06245e-09	1.000000
rad37	3.09125e-10	1.000000	3.09125e-10	1.000000
rad46	2.65415e-10	1.000000	2.65416e-10	1.000000
rad33	7.47510e-11	1.000000	7.47511e-11	1.000000
rad14	3.94468e-11	1.000000	3.94468e-11	1.000000
rad27	3.09502e-11	1.000000	3.09502e-11	1.000000
rad25	2.67887e-11	1.000000	2.67887e-11	1.000000
rad60syn	1.54120e-11	1.000000	1.54121e-11	1.000000
rad60anti	3.73443e-12	1.000000	3.73444e-12	1.000000
rad5	1.24626e-12	1.000000	1.24626e-12	1.000000
rad23	1.34280e-13	1.000000	1.34280e-13	1.000000
rad45	1.15724e-15	1.000000	1.15724e-15	1.000000
rad31	1.13764e-15	1.000000	1.13764e-15	1.000000
PAH3+H	5.62356e-16	1.000000	5.62357e-16	1.000000
rad20	2.74131e-16	1.000000	2.74132e-16	1.000000
rad59	2.38217e-16	1.000000	2.38217e-16	1.000000
rad21	2.04665e-16	1.000000	2.04665e-16	1.000000
rad22	8.26608e-17	1.000000	8.26608e-17	1.000000
rad36	7.17220e-17	1.000000	7.17221e-17	1.000000
rad50	2.58788e-17	1.000000	2.58788e-17	1.000000
rad18	1.32389e-18	1.000000	1.32389e-18	1.000000
rad19syn	3.07236e-19	1.000000	3.07236e-19	1.000000
rad54	4.55976e-22	1.000000	4.55977e-22	1.000000
PAH10+CH3	3.03657e-22	1.000000	3.03657e-22	1.000000
rad43	7.33669e-23	1.000000	7.33669e-23	1.000000
rad24	3.23010e-23	1.000000	3.23010e-23	1.000000
rad52	1.56155e-23	1.000000	1.56155e-23	1.000000
rad62	3.60534e-24	1.000000	3.60534e-24	1.000000

rad51	3.71594e-27	1.000000	3.71594e-27	1.000000
rad70	2.71908e-27	1.000000	2.71908e-27	1.000000
PhcycC3H3_A+H	2.14230e-27	1.000000	2.14230e-27	1.000000
rad55	9.72010e-28	1.000000	9.72011e-28	1.000000
rad65	2.44608e-30	1.000000	2.44608e-30	1.000000
rad58	1.12910e-30	1.000000	1.12910e-30	1.000000
PAH1+H	4.49139e-33	1.000000	4.49140e-33	1.000000
rad34	3.48096e-35	1.000000	3.48097e-35	1.000000
rad42	4.25386e-39	1.000000	4.25387e-39	1.000000
rad41	6.50701e-40	1.000000	6.50702e-40	1.000000
rad47	3.58113e-40	1.000000	3.58113e-40	1.000000

0.100000000E-02 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.59582e-19 (1.00)	3.59581e-19 (1.00)
Formation of rad11	3.35703e-19 (0.934)	3.35702e-19 (0.934)
Formation of rad6	2.33415e-20 (0.0649)	2.33414e-20 (0.0649)
H-abstraction	5.37685e-22 (0.00150)	5.37685e-22 (0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.904523	0.904523	0.904525	0.904525
rad6	0.0782612	0.982785	0.0782613	0.982787
C2H2+PhCH2	0.00942465	0.992209	0.00942467	0.992211
PhCCH+CH3	0.00312978	0.995339	0.00312979	0.995341
PhCHCCH2+H	0.00182445	0.997164	0.00182445	0.997166
Benzene+2-propynyl	0.00149531	0.998659	0.00149531	0.998661
PhCCCH3+H	0.00113941	0.999798	0.00113942	0.999800
rad28	6.73820e-05	0.999866	6.73821e-05	0.999868
Ph+MeAc	4.50230e-05	0.999911	4.50231e-05	0.999913
rad2	4.23254e-05	0.999953	4.23255e-05	0.999955
rad8	1.11205e-05	0.999964	1.11205e-05	0.999966
rad26	8.52017e-06	0.999973	8.52018e-06	0.999975
rad9	6.81542e-06	0.999979	6.81543e-06	0.999982
rad7	5.94831e-06	0.999985	5.94832e-06	0.999988
PAH7+H	4.00922e-06	0.999989	4.00923e-06	0.999992
rad1	2.76806e-06	0.999992	2.76807e-06	0.999994
rad10	2.16230e-06	0.999994	2.16230e-06	0.999996
Phenyl+Allene	1.52394e-06	0.999996	0.00000	0.999996
rad11	1.47583e-06	0.999997	1.47583e-06	0.999998
rad39	6.10923e-07	0.999998	6.10924e-07	0.999999
rad30	5.64433e-07	0.999998	5.64434e-07	0.999999
rad12	4.73438e-07	0.999999	4.73439e-07	1.000000
rad3	2.67423e-07	0.999999	2.67423e-07	1.000000
rad4	1.36415e-07	0.999999	1.36415e-07	1.000000
PAH9+H	1.21911e-07	0.999999	1.21911e-07	1.00000
rad15	1.11245e-07	1.000000	1.11245e-07	1.00000
rad35	6.07391e-08	1.000000	6.07391e-08	1.00000
rad38	3.28759e-08	1.000000	3.28760e-08	1.00000
rad13	3.21634e-08	1.000000	3.21635e-08	1.00000
PhCH2CCH+H	2.46263e-09	1.000000	2.46264e-09	1.00000
rad37	6.83155e-10	1.000000	6.83156e-10	1.00000
rad46	3.13958e-10	1.000000	3.13959e-10	1.00000
rad33	6.13451e-11	1.000000	6.13452e-11	1.00000
rad14	3.23556e-11	1.000000	3.23557e-11	1.00000
rad27	2.52680e-11	1.000000	2.52680e-11	1.00000
rad25	2.19986e-11	1.000000	2.19986e-11	1.00000
rad60syn	2.06328e-11	1.000000	2.06328e-11	1.00000
rad60anti	5.33835e-12	1.000000	5.33836e-12	1.00000
rad5	3.40996e-12	1.000000	3.40997e-12	1.00000
rad23	9.60048e-14	1.000000	9.60049e-14	1.00000
PAH3+H	1.92973e-15	1.000000	1.92973e-15	1.00000
rad31	9.54559e-16	1.000000	9.54560e-16	1.00000
rad45	8.23085e-16	1.000000	8.23086e-16	1.00000
rad59	7.84308e-16	1.000000	7.84310e-16	1.00000
rad20	2.38287e-16	1.000000	2.38287e-16	1.00000
rad21	1.78327e-16	1.000000	1.78327e-16	1.00000
rad50	8.14607e-17	1.000000	8.14608e-17	1.00000
rad22	6.12025e-17	1.000000	6.12026e-17	1.00000
rad36	5.10308e-17	1.000000	5.10309e-17	1.00000
rad19syn	3.18627e-18	1.000000	3.18627e-18	1.00000
rad18	1.14191e-18	1.000000	1.14191e-18	1.00000
rad54	7.34904e-21	1.000000	7.34905e-21	1.00000
PAH10+CH3	4.93020e-21	1.000000	4.93020e-21	1.00000
rad43	1.19564e-21	1.000000	1.19564e-21	1.00000
rad52	1.50451e-22	1.000000	1.50451e-22	1.00000
rad62	7.64851e-23	1.000000	7.64853e-23	1.00000
rad24	2.58023e-23	1.000000	2.58023e-23	1.00000

rad70	1.16027e-25	1.000000	1.16028e-25	1.00000
PhcycC3H3_A+H	1.06215e-25	1.000000	1.06215e-25	1.00000
rad51	7.90468e-26	1.000000	7.90469e-26	1.00000
rad55	4.36198e-26	1.000000	4.36199e-26	1.00000
PAH1+H	1.72618e-28	1.000000	1.72618e-28	1.00000
rad65	8.23468e-29	1.000000	8.23469e-29	1.00000
rad58	6.04108e-29	1.000000	6.04108e-29	1.00000
rad34	4.12316e-30	1.000000	4.12317e-30	1.00000
rad42	1.07364e-35	1.000000	1.07364e-35	1.00000
rad41	1.50042e-36	1.000000	1.50043e-36	1.00000
rad47	2.47899e-38	1.000000	2.47900e-38	1.00000

0.100000000E-02 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.51464e-19 (1.00)	8.51462e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83709e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56650e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.916766	0.916766	0.916768	0.916768
rad6	0.0637471	0.980513	0.0637473	0.980515
C2H2+PhCH2	0.0100814	0.990595	0.0100814	0.990597
PhCCH+CH3	0.00348874	0.994083	0.00348874	0.994086
Benzene+2-propynyl	0.00245244	0.996536	0.00245245	0.996538
PhCHCCH2+H	0.00200840	0.998544	0.00200840	0.998546
PhCCCH3+H	0.00126237	0.999807	0.00126237	0.999809
Ph+MeAc	5.66515e-05	0.999863	5.66516e-05	0.999865
rad28	5.53880e-05	0.999919	5.53882e-05	0.999921
rad2	3.42744e-05	0.999953	3.42744e-05	0.999955
rad8	1.26240e-05	0.999966	1.26240e-05	0.999968
rad9	8.01591e-06	0.999974	8.01593e-06	0.999976
rad26	6.94200e-06	0.999981	6.94201e-06	0.999983
rad7	4.84089e-06	0.999985	4.84090e-06	0.999988
PAH7+H	4.81539e-06	0.999990	4.81540e-06	0.999992
rad1	2.25307e-06	0.999992	2.25308e-06	0.999995
Phenyl+Allene	2.15172e-06	0.999995	0.00000	0.999995
rad10	1.75112e-06	0.999996	1.75113e-06	0.999996
rad11	1.20123e-06	0.999998	1.20124e-06	0.999998
rad39	7.66411e-07	0.999998	7.66413e-07	0.999998
rad30	6.16940e-07	0.999999	6.16942e-07	0.999999
rad12	5.59760e-07	0.999999	5.59761e-07	1.000000
rad3	2.16558e-07	1.000000	2.16558e-07	1.000000
PAH9+H	1.34876e-07	1.000000	1.34876e-07	1.000000
rad15	1.23567e-07	1.000000	1.23567e-07	1.000000
rad4	1.10623e-07	1.000000	1.10623e-07	1.000000
rad35	6.65506e-08	1.000000	6.65507e-08	1.000000
rad38	3.66690e-08	1.000000	3.66691e-08	1.000000
rad13	2.62786e-08	1.000000	2.62787e-08	1.000000
PhCH2CCH+H	5.24059e-09	1.000000	5.24060e-09	1.000000
rad37	1.35738e-09	1.000000	1.35738e-09	1.000000
rad46	3.71537e-10	1.000000	3.71538e-10	1.000000
rad33	5.01907e-11	1.000000	5.01908e-11	1.000000
rad60syn	2.74261e-11	1.000000	2.74262e-11	1.000000
rad14	2.64623e-11	1.000000	2.64624e-11	1.000000
rad27	2.05767e-11	1.000000	2.05768e-11	1.000000
rad25	1.80093e-11	1.000000	1.80093e-11	1.000000
rad5	8.30603e-12	1.000000	8.30605e-12	1.000000
rad60anti	7.49727e-12	1.000000	7.49729e-12	1.000000
rad23	6.96831e-14	1.000000	6.96832e-14	1.000000
PAH3+H	5.72272e-15	1.000000	5.72273e-15	1.000000
rad59	2.23566e-15	1.000000	2.23567e-15	1.000000
rad31	8.01533e-16	1.000000	8.01534e-16	1.000000
rad45	5.94727e-16	1.000000	5.94728e-16	1.000000
rad50	2.26392e-16	1.000000	2.26392e-16	1.000000
rad20	2.06924e-16	1.000000	2.06925e-16	1.000000
rad21	1.55246e-16	1.000000	1.55246e-16	1.000000
rad22	4.59041e-17	1.000000	4.59042e-17	1.000000
rad36	3.68949e-17	1.000000	3.68949e-17	1.000000
rad19syn	2.43047e-17	1.000000	2.43047e-17	1.000000
rad18	9.84659e-19	1.000000	9.84661e-19	1.000000
rad54	8.19074e-20	1.000000	8.19076e-20	1.000000
PAH10+CH3	5.52975e-20	1.000000	5.52976e-20	1.000000
rad43	1.34478e-20	1.000000	1.34478e-20	1.000000
rad52	1.08118e-21	1.000000	1.08118e-21	1.000000
rad62	1.07948e-21	1.000000	1.07948e-21	1.000000
rad24	2.11501e-23	1.000000	2.11502e-23	1.000000

rad70	2.81955e-24	1.00000	2.81955e-24	1.00000
PhcycC3H3_A+H	2.81950e-24	1.00000	2.81951e-24	1.00000
rad51	1.12540e-24	1.00000	1.12541e-24	1.00000
rad55	1.09529e-24	1.00000	1.09530e-24	1.00000
PAH1+H	8.46087e-27	1.00000	8.46089e-27	1.00000
rad65	1.70658e-27	1.00000	1.70659e-27	1.00000
rad58	1.68583e-27	1.00000	1.68583e-27	1.00000
rad34	2.52381e-28	1.00000	2.52382e-28	1.00000
rad42	7.84687e-31	1.00000	7.84689e-31	1.00000
rad41	1.60689e-31	1.00000	1.60689e-31	1.00000
rad47	7.57853e-37	1.00000	7.57854e-37	1.00000

0.100000000E-02 Pa, 160.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.81800e-18	(1.00)	1.81800e-18	(1.00)
Formation of rad11	1.64862e-18	(0.907)	1.64862e-18	(0.907)
Formation of rad6	1.62558e-19	(0.0894)	1.62558e-19	(0.0894)
H-abstraction	6.82130e-21	(0.00375)	6.82130e-21	(0.00375)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.926056	0.926056	0.926059	0.926059
rad6	0.0517643	0.977821	0.0517644	0.977824
C2H2+PhCH2	0.0107612	0.988582	0.0107613	0.988585
PhCCH+CH3	0.00387599	0.992458	0.00387600	0.992461
Benzene+2-propynyl	0.00375209	0.996210	0.00375210	0.996213
PhCHCCH2+H	0.00220363	0.998413	0.00220364	0.998417
PhCCCH3+H	0.00139339	0.999807	0.00139339	0.999810
Ph+MeAc	7.07007e-05	0.999878	7.07009e-05	0.999881
rad28	4.53471e-05	0.999923	4.53472e-05	0.999926
rad2	2.76865e-05	0.999951	2.76866e-05	0.999954
rad8	1.42741e-05	0.999965	1.42742e-05	0.999968
rad9	9.39852e-06	0.999974	9.39855e-06	0.999978
PAH7+H	5.75580e-06	0.999980	5.75582e-06	0.999983
rad26	5.63935e-06	0.999986	5.63937e-06	0.999989
rad7	3.92863e-06	0.999990	3.92864e-06	0.999993
Phenyl+Allene	2.99174e-06	0.999993	0.00000	0.999993
rad1	1.83021e-06	0.999994	1.83021e-06	0.999995
rad10	1.41490e-06	0.999996	1.41490e-06	0.999996
rad11	9.75039e-07	0.999997	9.75042e-07	0.999997
rad39	9.54184e-07	0.999998	9.54187e-07	0.999998
rad30	6.73278e-07	0.999998	6.73280e-07	0.999999
rad12	6.57998e-07	0.999999	6.58000e-07	0.999999
rad3	1.74955e-07	0.999999	1.74956e-07	1.000000
PAH9+H	1.49114e-07	0.999999	1.49114e-07	1.000000
rad15	1.37080e-07	1.000000	1.37080e-07	1.000000
rad4	8.95086e-08	1.000000	8.95089e-08	1.000000
rad35	7.28400e-08	1.000000	7.28403e-08	1.000000
rad38	4.08786e-08	1.000000	4.08788e-08	1.000000
rad13	2.14069e-08	1.000000	2.14069e-08	1.000000
PhCH2CCH+H	1.03975e-08	1.000000	1.03975e-08	1.000000
rad37	2.47497e-09	1.000000	2.47498e-09	1.000000
rad46	4.39909e-10	1.000000	4.39910e-10	1.000000
rad33	4.09459e-11	1.000000	4.09460e-11	1.000000
rad60syn	3.62046e-11	1.000000	3.62047e-11	1.000000
rad14	2.15822e-11	1.000000	2.15822e-11	1.000000
rad5	1.83948e-11	1.000000	1.83949e-11	1.000000
rad27	1.67152e-11	1.000000	1.67153e-11	1.000000
rad25	1.47001e-11	1.000000	1.47001e-11	1.000000
rad60anti	1.03743e-11	1.000000	1.03743e-11	1.000000
rad23	5.12685e-14	1.000000	5.12687e-14	1.000000
PAH3+H	1.50897e-14	1.000000	1.50897e-14	1.000000
rad59	5.67707e-15	1.000000	5.67709e-15	1.000000
rad31	6.73805e-16	1.000000	6.73807e-16	1.000000
rad50	5.69228e-16	1.000000	5.69229e-16	1.000000
rad45	4.35859e-16	1.000000	4.35861e-16	1.000000
rad20	1.79536e-16	1.000000	1.79537e-16	1.000000
rad19syn	1.44562e-16	1.000000	1.44562e-16	1.000000
rad21	1.35055e-16	1.000000	1.35055e-16	1.000000
rad22	3.48081e-17	1.000000	3.48083e-17	1.000000
rad36	2.70625e-17	1.000000	2.70626e-17	1.000000
rad18	8.48716e-19	1.000000	8.48719e-19	1.000000
rad54	6.77362e-19	1.000000	6.77364e-19	1.000000
PAH10+CH3	4.59714e-19	1.000000	4.59716e-19	1.000000
rad43	1.11983e-19	1.000000	1.11983e-19	1.000000
rad62	1.09573e-20	1.000000	1.09573e-20	1.000000
rad52	6.13366e-21	1.000000	6.13368e-21	1.000000
PhcycC3H3_A+H	4.93612e-23	1.000000	4.93613e-23	1.000000

rad70	4.56797e-23	1.000000	4.56799e-23	1.00000
rad55	1.82385e-23	1.000000	1.82386e-23	1.00000
rad24	1.77462e-23	1.000000	1.77463e-23	1.00000
rad51	1.15986e-23	1.000000	1.15987e-23	1.00000
PAH1+H	2.26360e-25	1.000000	2.26361e-25	1.00000
rad58	3.07406e-26	1.000000	3.07407e-26	1.00000
rad65	2.42767e-26	1.000000	2.42767e-26	1.00000
rad34	7.86207e-27	1.000000	7.86209e-27	1.00000
rad42	4.07255e-29	1.000000	4.07256e-29	1.00000
rad41	9.76941e-30	1.000000	9.76944e-30	1.00000
rad47	1.41428e-35	1.000000	1.41428e-35	1.00000

0.100000000E-02 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.56414e-18 (1.00)	3.56412e-18 (1.00)
Formation of rad11	3.18264e-18 (0.893)	3.18262e-18 (0.893)
Formation of rad6	3.62173e-19 (0.102)	3.62172e-19 (0.102)
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.932763	0.932763	0.932767	0.932767
rad6	0.0419108	0.974674	0.0419110	0.974678
C2H2+PhCH2	0.0114670	0.986141	0.0114670	0.986145
Benzene+2-propynyl	0.00542285	0.991564	0.00542287	0.991568
PhCCH+CH3	0.00429307	0.995857	0.00429309	0.995861
PhCHCCH2+H	0.00241063	0.998267	0.00241064	0.998272
PhCCCH3+H	0.00153272	0.999800	0.00153273	0.999804
Ph+MeAc	8.75367e-05	0.999888	8.75371e-05	0.999892
rad28	3.69901e-05	0.999925	3.69902e-05	0.999929
rad2	2.23120e-05	0.999947	2.23121e-05	0.999951
rad8	1.60796e-05	0.999963	1.60797e-05	0.999967
rad9	1.09863e-05	0.999974	1.09864e-05	0.999978
PAH7+H	6.84993e-06	0.999981	6.84995e-06	0.999985
rad26	4.56824e-06	0.999986	4.56826e-06	0.999990
Phenyl+Allene	4.10319e-06	0.999990	0.00000	0.999990
rad7	3.17977e-06	0.999993	3.17978e-06	0.999993
rad1	1.48390e-06	0.999994	1.48391e-06	0.999994
rad39	1.17969e-06	0.999995	1.17970e-06	0.999996
rad10	1.14070e-06	0.999997	1.14071e-06	0.999997
rad11	7.89360e-07	0.999997	7.89363e-07	0.999998
rad12	7.69216e-07	0.999998	7.69219e-07	0.999998
rad30	7.33858e-07	0.999999	7.33861e-07	0.999999
PAH9+H	1.64794e-07	0.999999	1.64795e-07	0.999999
rad15	1.51920e-07	0.999999	1.51921e-07	0.999999
rad3	1.41024e-07	0.999999	1.41025e-07	0.999999
rad35	7.96676e-08	0.999999	7.96680e-08	1.000000
rad4	7.22702e-08	1.000000	7.22704e-08	1.000000
rad38	4.55632e-08	1.000000	4.55634e-08	1.000000
PhCH2CCH+H	1.94640e-08	1.000000	1.94641e-08	1.000000
rad13	1.73894e-08	1.000000	1.73895e-08	1.000000
rad37	4.20738e-09	1.000000	4.20740e-09	1.000000
rad46	5.21197e-10	1.000000	5.21199e-10	1.000000
rad60syn	4.74816e-11	1.000000	4.74818e-11	1.000000
rad5	3.76473e-11	1.000000	3.76474e-11	1.000000
rad33	3.33130e-11	1.000000	3.33132e-11	1.000000
rad14	1.75555e-11	1.000000	1.75556e-11	1.000000
rad60anti	1.41757e-11	1.000000	1.41758e-11	1.000000
rad27	1.35464e-11	1.000000	1.35465e-11	1.000000
rad25	1.19658e-11	1.000000	1.19658e-11	1.000000
rad23	3.82012e-14	1.000000	3.82014e-14	1.000000
PAH3+H	3.61589e-14	1.000000	3.61590e-14	1.000000
rad59	1.31258e-14	1.000000	1.31259e-14	1.000000
rad50	1.31921e-15	1.000000	1.31922e-15	1.000000
rad19syn	7.01056e-16	1.000000	7.01059e-16	1.000000
rad31	5.67353e-16	1.000000	5.67356e-16	1.000000
rad45	3.23685e-16	1.000000	3.23686e-16	1.000000
rad20	1.55666e-16	1.000000	1.55666e-16	1.000000
rad21	1.17427e-16	1.000000	1.17427e-16	1.000000
rad22	2.66456e-17	1.000000	2.66457e-17	1.000000
rad36	2.01205e-17	1.000000	2.01205e-17	1.000000
rad54	4.38588e-18	1.000000	4.38590e-18	1.000000
PAH10+CH3	2.98887e-18	1.000000	2.98888e-18	1.000000
rad18	7.31213e-19	1.000000	7.31216e-19	1.000000
rad43	7.28362e-19	1.000000	7.28365e-19	1.000000
rad62	8.48424e-20	1.000000	8.48428e-20	1.000000
rad52	2.86895e-20	1.000000	2.86896e-20	1.000000
PhcycC3H3_A+H	6.17042e-22	1.000000	6.17044e-22	1.000000

rad70	5.32018e-22	1.000000	5.32021e-22	1.000000
rad55	2.17588e-22	1.000000	2.17588e-22	1.000000
rad51	9.17748e-23	1.000000	9.17752e-23	1.000000
rad24	1.52089e-23	1.000000	1.52089e-23	1.000000
PAH1+H	3.93780e-24	1.000000	3.93781e-24	1.000000
rad58	3.98396e-25	1.000000	3.98397e-25	1.000000
rad65	2.53923e-25	1.000000	2.53923e-25	1.000000
rad34	1.50120e-25	1.000000	1.50120e-25	1.000000
rad42	1.01642e-27	1.000000	1.01642e-27	1.000000
rad41	2.58313e-28	1.000000	2.58314e-28	1.000000
rad47	1.82386e-34	1.000000	1.82386e-34	1.000000

0.100000000E-02 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.50681e-18 (1.00)	6.50677e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71912e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39009e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.937217	0.937217	0.937223	0.937223
rad6	0.0338392	0.971056	0.0338394	0.971062
C2H2+PhCH2	0.0122020	0.983258	0.0122021	0.983264
Benzene+2-propynyl	0.00747672	0.990735	0.00747676	0.990741
PhCCH+CH3	0.00474155	0.995476	0.00474157	0.995483
PhCHCCH2+H	0.00262985	0.998106	0.00262986	0.998112
PhCCCH3+H	0.00168055	0.999787	0.00168056	0.999793
Ph+MeAc	0.000107560	0.999894	0.000107561	0.999901
rad28	3.00713e-05	0.999924	3.00714e-05	0.999931
rad8	1.80487e-05	0.999942	1.80488e-05	0.999949
rad2	1.79404e-05	0.999960	1.79405e-05	0.999967
rad9	1.28050e-05	0.999973	1.28051e-05	0.999979
PAH7+H	8.12005e-06	0.999981	8.12009e-06	0.999988
Phenyl+Allene	5.55927e-06	0.999987	0.00000	0.999988
rad26	3.69076e-06	0.999991	3.69078e-06	0.999991
rad7	2.56715e-06	0.999993	2.56716e-06	0.999994
rad39	1.44919e-06	0.999995	1.44920e-06	0.999995
rad1	1.20104e-06	0.999996	1.20105e-06	0.999996
rad10	9.17711e-07	0.999997	9.17716e-07	0.999997
rad12	8.94513e-07	0.999998	8.94518e-07	0.999998
rad30	7.99134e-07	0.999998	7.99138e-07	0.999999
rad11	6.37448e-07	0.999999	6.37452e-07	1.000000
PAH9+H	1.82113e-07	0.999999	1.82114e-07	1.000000
rad15	1.68243e-07	0.999999	1.68244e-07	1.000000
rad3	1.13430e-07	0.999999	1.13431e-07	1.000000
rad35	8.71017e-08	1.000000	8.71022e-08	1.000000
rad4	5.82356e-08	1.000000	5.82359e-08	1.000000
rad38	5.07893e-08	1.000000	5.07896e-08	1.000000
PhCH2CCH+H	3.47005e-08	1.000000	3.47007e-08	1.000000
rad13	1.40888e-08	1.000000	1.40889e-08	1.000000
rad37	6.75199e-09	1.000000	6.75203e-09	1.000000
rad46	6.17967e-10	1.000000	6.17970e-10	1.000000
rad5	7.21166e-11	1.000000	7.21171e-11	1.000000
rad60syn	6.18943e-11	1.000000	6.18947e-11	1.000000
rad33	2.70341e-11	1.000000	2.70341e-11	1.000000
rad60anti	1.91613e-11	1.000000	1.91614e-11	1.000000
rad14	1.42446e-11	1.000000	1.42446e-11	1.000000
rad27	1.09539e-11	1.000000	1.09540e-11	1.000000
rad25	9.71470e-12	1.000000	9.71476e-12	1.000000
PAH3+H	8.00888e-14	1.000000	8.00893e-14	1.000000
rad23	2.88180e-14	1.000000	2.88182e-14	1.000000
rad59	2.81028e-14	1.000000	2.81029e-14	1.000000
rad19syn	2.86990e-15	1.000000	2.86992e-15	1.000000
rad50	2.85878e-15	1.000000	2.85879e-15	1.000000
rad31	4.78773e-16	1.000000	4.78776e-16	1.000000
rad45	2.43493e-16	1.000000	2.43495e-16	1.000000
rad20	1.34904e-16	1.000000	1.34905e-16	1.000000
rad21	1.02065e-16	1.000000	1.02066e-16	1.000000
rad54	2.31823e-17	1.000000	2.31824e-17	1.000000
rad22	2.05702e-17	1.000000	2.05703e-17	1.000000
PAH10+CH3	1.58430e-17	1.000000	1.58431e-17	1.000000
rad36	1.51576e-17	1.000000	1.51577e-17	1.000000
rad43	3.85728e-18	1.000000	3.85730e-18	1.000000
rad18	6.29713e-19	1.000000	6.29717e-19	1.000000
rad62	5.24551e-19	1.000000	5.24553e-19	1.000000
rad52	1.14435e-19	1.000000	1.14435e-19	1.000000
PhcycC3H3_A+H	5.84258e-21	1.000000	5.84261e-21	1.000000

rad70	4.71613e-21	1.000000	4.71616e-21	1.00000
rad55	1.97126e-21	1.000000	1.97127e-21	1.00000
rad51	5.83526e-22	1.000000	5.83530e-22	1.00000
PAH1+H	4.94423e-23	1.000000	4.94425e-23	1.00000
rad24	1.32880e-23	1.000000	1.32880e-23	1.00000
rad58	3.89990e-24	1.000000	3.89992e-24	1.00000
rad65	2.05952e-24	1.000000	2.05953e-24	1.00000
rad34	2.03794e-24	1.000000	2.03795e-24	1.00000
rad42	1.68771e-26	1.000000	1.68772e-26	1.00000
rad41	4.43140e-27	1.000000	4.43143e-27	1.00000
rad47	1.73041e-33	1.000000	1.73042e-33	1.00000

0.100000000E-02 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.11858e-17 (1.00)	1.11857e-17 (1.00)
Formation of rad11	9.67466e-18 (0.865)	9.67458e-18 (0.865)
Formation of rad6	1.40029e-18 (0.125)	1.40028e-18 (0.125)
H-abstraction	1.10851e-19 (0.00991)	1.10851e-19 (0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.939713	0.939713	0.939720	0.939720
rad6	0.0272513	0.966965	0.0272515	0.966972
C2H2+PhCH2	0.0129698	0.979934	0.0129699	0.979942
Benzene+2-propynyl	0.00990995	0.989844	0.00991003	0.989852
PhCCH+CH3	0.00522299	0.995067	0.00522303	0.995075
PhCHCCH2+H	0.00286178	0.997929	0.00286180	0.997936
PhCCCH3+H	0.00183703	0.999766	0.00183705	0.999773
Ph+MeAc	0.000131204	0.999897	0.000131205	0.999905
rad28	2.43705e-05	0.999922	2.43707e-05	0.999929
rad8	2.01896e-05	0.999942	2.01898e-05	0.999949
rad9	1.48834e-05	0.999957	1.48835e-05	0.999964
rad2	1.43948e-05	0.999971	1.43949e-05	0.999979
PAH7+H	9.59154e-06	0.999981	9.59161e-06	0.999988
Phenyl+Allene	7.44989e-06	0.999988	0.00000	0.999988
rad26	2.97441e-06	0.999991	2.97443e-06	0.999991
rad7	2.06761e-06	0.999993	2.06763e-06	0.999993
rad39	1.76987e-06	0.999995	1.76987e-06	0.999995
rad12	1.03501e-06	0.999996	1.03502e-06	0.999996
rad1	9.70611e-07	0.999997	9.70619e-07	0.999997
rad30	8.69613e-07	0.999998	8.69620e-07	0.999998
rad10	7.36864e-07	0.999999	7.36870e-07	0.999999
rad11	5.13566e-07	0.999999	5.13570e-07	0.999999
PAH9+H	2.01292e-07	0.999999	2.01293e-07	0.999999
rad15	1.86222e-07	1.000000	1.86223e-07	0.999999
rad35	9.52193e-08	1.000000	9.52201e-08	1.000000
rad3	9.10504e-08	1.000000	9.10511e-08	1.000000
PhCH2CCH+H	5.93540e-08	1.000000	5.93544e-08	1.000000
rad38	5.66344e-08	1.000000	5.66348e-08	1.000000
rad4	4.68395e-08	1.000000	4.68399e-08	1.000000
rad13	1.13866e-08	1.000000	1.13867e-08	1.000000
rad37	1.03301e-08	1.000000	1.03302e-08	1.000000
rad46	7.33314e-10	1.000000	7.33319e-10	1.000000
rad5	1.30609e-10	1.000000	1.30610e-10	1.000000
rad60syn	8.02305e-11	1.000000	8.02310e-11	1.000000
rad60anti	2.56565e-11	1.000000	2.56567e-11	1.000000
rad33	2.18867e-11	1.000000	2.18868e-11	1.000000
rad14	1.15313e-11	1.000000	1.15314e-11	1.000000
rad27	8.83913e-12	1.000000	8.83920e-12	1.000000
rad25	7.86809e-12	1.000000	7.86815e-12	1.000000
PAH3+H	1.66152e-13	1.000000	1.66154e-13	1.000000
rad59	5.64561e-14	1.000000	5.64565e-14	1.000000
rad23	2.20142e-14	1.000000	2.20144e-14	1.000000
rad19syn	1.01927e-14	1.000000	1.01927e-14	1.000000
rad50	5.85782e-15	1.000000	5.85787e-15	1.000000
rad31	4.05191e-16	1.000000	4.05194e-16	1.000000
rad45	1.85573e-16	1.000000	1.85575e-16	1.000000
rad20	1.16879e-16	1.000000	1.16880e-16	1.000000
rad54	1.03370e-16	1.000000	1.03370e-16	1.000000
rad21	8.87036e-17	1.000000	8.87041e-17	1.000000
PAH10+CH3	7.07435e-17	1.000000	7.07441e-17	1.000000
rad43	1.71854e-17	1.000000	1.71855e-17	1.000000
rad22	1.60038e-17	1.000000	1.60039e-17	1.000000
rad36	1.15727e-17	1.000000	1.15728e-17	1.000000
rad62	2.68436e-18	1.000000	2.68438e-18	1.000000
rad18	5.42111e-19	1.000000	5.42115e-19	1.000000
rad52	3.99724e-19	1.000000	3.99727e-19	1.000000
PhcycC3H3_A+H	4.37949e-20	1.000000	4.37951e-20	1.000000

rad70	3.32425e-20	1.000000	3.32428e-20	1.000000
rad55	1.41754e-20	1.000000	1.41755e-20	1.000000
rad51	3.08975e-21	1.000000	3.08978e-21	1.000000
PAH1+H	4.72599e-22	1.000000	4.72602e-22	1.000000
rad58	3.01475e-23	1.000000	3.01477e-23	1.000000
rad34	2.08394e-23	1.000000	2.08396e-23	1.000000
rad65	1.34970e-23	1.000000	1.34971e-23	1.000000
rad24	1.18157e-23	1.000000	1.18158e-23	1.000000
rad42	2.03732e-25	1.000000	2.03733e-25	1.000000
rad41	5.48603e-26	1.000000	5.48607e-26	1.000000
rad47	1.26869e-32	1.000000	1.26870e-32	1.000000

0.100000000E-02 Pa, 200.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.82690e-17	(1.00)	1.82688e-17	(1.00)
Formation of rad11	1.55456e-17	(0.851)	1.55455e-17	(0.851)
Formation of rad6	2.49126e-18	(0.136)	2.49124e-18	(0.136)
H-abstraction	2.32112e-19	(0.0127)	2.32112e-19	(0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.940518	0.940518	0.940526	0.940526
rad6	0.0218929	0.962411	0.0218931	0.962420
C2H2+PhCH2	0.0137740	0.976185	0.0137741	0.976194
Benzene+2-propynyl	0.0127053	0.988890	0.0127054	0.988899
PhCCH+CH3	0.00573900	0.994629	0.00573904	0.994638
PhCHCCH2+H	0.00310687	0.997736	0.00310690	0.997745
PhCCCH3+H	0.00200231	0.999738	0.00200233	0.999747
Ph+MeAc	0.000158933	0.999897	0.000158934	0.999906
rad8	2.25104e-05	0.999919	2.25106e-05	0.999929
rad28	1.96940e-05	0.999939	1.96942e-05	0.999948
rad9	1.72533e-05	0.999956	1.72535e-05	0.999966
rad2	1.15274e-05	0.999968	1.15275e-05	0.999977
PAH7+H	1.12932e-05	0.999979	1.12933e-05	0.999989
Phenyl+Allene	9.88470e-06	0.999989	0.000000	0.999989
rad26	2.39154e-06	0.999992	2.39156e-06	0.999991
rad39	2.14990e-06	0.999994	2.14992e-06	0.999993
rad7	1.66158e-06	0.999995	1.66160e-06	0.999995
rad12	1.19183e-06	0.999997	1.19184e-06	0.999996
rad30	9.45852e-07	0.999997	9.45862e-07	0.999997
rad1	7.83326e-07	0.999998	7.83333e-07	0.999998
rad10	5.90573e-07	0.999999	5.90579e-07	0.999998
rad11	4.12850e-07	0.999999	4.12855e-07	0.999999
PAH9+H	2.22588e-07	0.999999	2.22590e-07	0.999999
rad15	2.06049e-07	1.000000	2.06051e-07	0.999999
rad35	1.04107e-07	1.000000	1.04108e-07	0.999999
PhCH2CCH+H	9.79780e-08	1.000000	9.79790e-08	0.999999
rad3	7.29490e-08	1.000000	7.29498e-08	0.999999
rad38	6.31871e-08	1.000000	6.31876e-08	0.999999
rad4	3.76096e-08	1.000000	3.76100e-08	0.999999
rad37	1.51859e-08	1.000000	1.51861e-08	0.999999
rad13	9.18172e-09	1.000000	9.18181e-09	1.000000
rad46	8.70965e-10	1.000000	8.70974e-10	1.000000
rad5	2.25443e-10	1.000000	2.25445e-10	1.000000
rad60syn	1.03460e-10	1.000000	1.03461e-10	1.000000
rad60anti	3.40677e-11	1.000000	3.40680e-11	1.000000
rad33	1.76808e-11	1.000000	1.76809e-11	1.000000
rad14	9.31477e-12	1.000000	9.31486e-12	1.000000
rad27	7.11888e-12	1.000000	7.11895e-12	1.000000
rad25	6.35825e-12	1.000000	6.35831e-12	1.000000
PAH3+H	3.26255e-13	1.000000	3.26258e-13	1.000000
rad59	1.07525e-13	1.000000	1.07526e-13	1.000000
rad19syn	3.21002e-14	1.000000	3.21005e-14	1.000000
rad23	1.70420e-14	1.000000	1.70422e-14	1.000000
rad50	1.14495e-14	1.000000	1.14496e-14	1.000000
rad54	3.99173e-16	1.000000	3.99177e-16	1.000000
rad31	3.44175e-16	1.000000	3.44179e-16	1.000000
PAH10+CH3	2.73141e-16	1.000000	2.73144e-16	1.000000
rad45	1.43396e-16	1.000000	1.43397e-16	1.000000
rad20	1.01258e-16	1.000000	1.01259e-16	1.000000
rad21	7.71005e-17	1.000000	7.71013e-17	1.000000
rad43	6.61175e-17	1.000000	6.61180e-17	1.000000
rad22	1.25436e-17	1.000000	1.25437e-17	1.000000
rad62	1.17010e-17	1.000000	1.17011e-17	1.000000
rad36	8.96171e-18	1.000000	8.96180e-18	1.000000
rad52	1.24886e-18	1.000000	1.24888e-18	1.000000
rad18	4.66577e-19	1.000000	4.66582e-19	1.000000
PhcycC3H3_A+H	2.69113e-19	1.000000	2.69115e-19	1.000000

rad70	1.92895e-19	1.00000	1.92897e-19	1.000000
rad55	8.37953e-20	1.00000	8.37961e-20	1.000000
rad51	1.40152e-20	1.00000	1.40154e-20	1.000000
PAH1+H	3.58237e-21	1.00000	3.58240e-21	1.000000
rad58	1.90611e-22	1.00000	1.90613e-22	1.000000
rad34	1.67535e-22	1.00000	1.67537e-22	1.000000
rad65	7.38316e-23	1.00000	7.38324e-23	1.000000
rad24	1.06774e-23	1.00000	1.06775e-23	1.000000
rad42	1.88681e-24	1.00000	1.88683e-24	1.000000
rad41	5.19102e-25	1.00000	5.19107e-25	1.000000
rad47	7.47631e-32	1.00000	7.47638e-32	1.000000

0.100000000E-02 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.85520e-17 (1.00)	2.85517e-17 (1.00)
Formation of rad11	2.39009e-17 (0.837)	2.39006e-17 (0.837)
Formation of rad6	4.19900e-18 (0.147)	4.19895e-18 (0.147)
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.939867	0.939867	0.939880	0.939880
rad6	0.0175485	0.957416	0.0175486	0.957428
Benzene+2-propynyl	0.0158346	0.973250	0.0158348	0.973263
C2H2+PhCH2	0.0146186	0.987869	0.0146188	0.987882
PhCCH+CH3	0.00629107	0.994160	0.00629115	0.994173
PhCHCCH2+H	0.00336556	0.997525	0.00336560	0.997539
PhCCCH3+H	0.00217645	0.999702	0.00217648	0.999715
Ph+MeAc	0.000191236	0.999893	0.000191238	0.999906
rad8	2.50182e-05	0.999918	2.50186e-05	0.999931
rad9	1.99496e-05	0.999938	1.99498e-05	0.999951
rad28	1.58728e-05	0.999954	1.58730e-05	0.999967
PAH7+H	1.32575e-05	0.999967	1.32577e-05	0.999981
Phenyl+Allene	1.29968e-05	0.999980	0.000000	0.999981
rad2	9.21428e-06	0.999989	9.21440e-06	0.999990
rad39	2.59858e-06	0.999992	2.59862e-06	0.999992
rad26	1.91876e-06	0.999994	1.91879e-06	0.999994
rad12	1.36609e-06	0.999995	1.36610e-06	0.999996
rad7	1.33250e-06	0.999997	1.33252e-06	0.999997
rad30	1.02845e-06	0.999998	1.02847e-06	0.999998
rad1	6.31446e-07	0.999998	6.31454e-07	0.999999
rad10	4.72531e-07	0.999999	4.72537e-07	0.999999
rad11	3.31209e-07	0.999999	3.31214e-07	0.999999
PAH9+H	2.46288e-07	0.999999	2.46291e-07	1.000000
rad15	2.27941e-07	1.000000	2.27943e-07	1.000000
PhCH2CCH+H	1.56831e-07	1.000000	1.56833e-07	1.000000
rad35	1.13864e-07	1.000000	1.13865e-07	1.000000
rad38	7.05488e-08	1.000000	7.05497e-08	1.000000
rad3	5.83450e-08	1.000000	5.83457e-08	1.000000
rad4	3.01521e-08	1.000000	3.01525e-08	1.000000
rad37	2.15863e-08	1.000000	2.15866e-08	1.000000
rad13	7.38818e-09	1.000000	7.38828e-09	1.000000
rad46	1.03539e-09	1.000000	1.03541e-09	1.000000
rad5	3.73291e-10	1.000000	3.73296e-10	1.000000
rad60syn	1.32769e-10	1.000000	1.32771e-10	1.000000
rad60anti	4.48983e-11	1.000000	4.48989e-11	1.000000
rad33	1.42544e-11	1.000000	1.42546e-11	1.000000
rad14	7.50943e-12	1.000000	7.50952e-12	1.000000
rad27	5.72326e-12	1.000000	5.72333e-12	1.000000
rad25	5.12756e-12	1.000000	5.12763e-12	1.000000
PAH3+H	6.11401e-13	1.000000	6.11410e-13	1.000000
rad59	1.95752e-13	1.000000	1.95754e-13	1.000000
rad19syn	9.12435e-14	1.000000	9.12447e-14	1.000000
rad50	2.14949e-14	1.000000	2.14952e-14	1.000000
rad23	1.33876e-14	1.000000	1.33878e-14	1.000000
rad54	1.36344e-15	1.000000	1.36345e-15	1.000000
PAH10+CH3	9.31237e-16	1.000000	9.31250e-16	1.000000
rad31	2.93686e-16	1.000000	2.93689e-16	1.000000
rad43	2.24334e-16	1.000000	2.24337e-16	1.000000
rad45	1.12495e-16	1.000000	1.12496e-16	1.000000
rad20	8.77398e-17	1.000000	8.77410e-17	1.000000
rad21	6.70396e-17	1.000000	6.70404e-17	1.000000
rad62	4.44603e-17	1.000000	4.44608e-17	1.000000
rad22	9.90395e-18	1.000000	9.90405e-18	1.000000
rad36	7.04855e-18	1.000000	7.04865e-18	1.000000
rad52	3.54970e-18	1.000000	3.54975e-18	1.000000
PhcycC3H3_A+H	1.39395e-18	1.000000	1.39397e-18	1.000000
rad70	9.47415e-19	1.000000	9.47427e-19	1.000000

rad55	4.18730e-19	1.00000	4.18735e-19	1.00000
rad18	4.01512e-19	1.00000	4.01517e-19	1.00000
rad51	5.57052e-20	1.00000	5.57059e-20	1.00000
PAH1+H	2.22423e-20	1.00000	2.22426e-20	1.00000
rad34	1.09486e-21	1.00000	1.09488e-21	1.00000
rad58	1.01366e-21	1.00000	1.01367e-21	1.00000
rad65	3.45951e-22	1.00000	3.45956e-22	1.00000
rad42	1.39164e-23	1.00000	1.39166e-23	1.00000
rad24	9.79329e-24	1.00000	9.79342e-24	1.00000
rad41	3.89989e-24	1.00000	3.89995e-24	1.00000
rad47	3.65577e-31	1.00000	3.65582e-31	1.00000

0.100000000E-02 Pa, 220.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	4.29529e-17	(1.00)	4.29521e-17	(1.00)
Formation of rad11	3.53712e-17	(0.823)	3.53706e-17	(0.823)
Formation of rad6	6.75433e-18	(0.157)	6.75421e-18	(0.157)
H-abstraction	8.27372e-19	(0.0193)	8.27372e-19	(0.0193)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.937973	0.937973	0.937988	0.937988
Benzene+2-propynyl	0.0192623	0.957235	0.0192626	0.957251
C2H2+PhCH2	0.0155075	0.972742	0.0155078	0.972758
rad6	0.0140366	0.986779	0.0140369	0.986795
PhCCH+CH3	0.00688066	0.993660	0.00688077	0.993676
PhCHCCH2+H	0.00363823	0.997298	0.00363829	0.997314
PhCCCH3+H	0.00235946	0.999657	0.00235950	0.999674
Ph+MeAc	0.000228626	0.999886	0.000228629	0.999903
rad8	2.77195e-05	0.999914	2.77200e-05	0.999930
rad9	2.30109e-05	0.999937	2.30112e-05	0.999953
Phenyl+Allene	1.69463e-05	0.999954	0.00000	0.999953
PAH7+H	1.55210e-05	0.999969	1.55211e-05	0.999969
rad28	1.27620e-05	0.999982	1.27623e-05	0.999982
rad2	7.35317e-06	0.999989	7.35329e-06	0.999989
rad39	3.12639e-06	0.999992	3.12644e-06	0.999992
rad12	1.55884e-06	0.999994	1.55887e-06	0.999994
rad26	1.53637e-06	0.999996	1.53640e-06	0.999995
rad30	1.11808e-06	0.999997	1.11810e-06	0.999996
rad7	1.06654e-06	0.999998	1.06656e-06	0.999997
rad1	5.08529e-07	0.999998	5.08538e-07	0.999998
rad10	3.77508e-07	0.999999	3.77514e-07	0.999998
PAH9+H	2.72722e-07	0.999999	2.72726e-07	0.999998
rad11	2.65210e-07	0.999999	2.65214e-07	0.999999
rad15	2.52130e-07	0.999999	2.52134e-07	0.999999
PhCH2CCH+H	2.44361e-07	1.000000	2.44364e-07	0.999999
rad35	1.24597e-07	1.000000	1.24599e-07	0.999999
rad38	7.88350e-08	1.000000	7.88364e-08	0.999999
rad3	4.65912e-08	1.000000	4.65921e-08	0.999999
rad37	2.98215e-08	1.000000	2.98220e-08	1.000000
rad4	2.41405e-08	1.000000	2.41409e-08	1.000000
rad13	5.93345e-09	1.000000	5.93356e-09	1.000000
rad46	1.23194e-09	1.000000	1.23196e-09	1.000000
rad5	5.96075e-10	1.000000	5.96085e-10	1.000000
rad60syn	1.69604e-10	1.000000	1.69607e-10	1.000000
rad60anti	5.87694e-11	1.000000	5.87704e-11	1.000000
rad33	1.14710e-11	1.000000	1.14712e-11	1.000000
rad14	6.04305e-12	1.000000	6.04315e-12	1.000000
rad27	4.59385e-12	1.000000	4.59393e-12	1.000000
rad25	4.12730e-12	1.000000	4.12736e-12	1.000000
PAH3+H	1.10076e-12	1.000000	1.10078e-12	1.000000
rad59	3.42878e-13	1.000000	3.42884e-13	1.000000
rad19syn	2.37476e-13	1.000000	2.37481e-13	1.000000
rad50	3.89747e-14	1.000000	3.89754e-14	1.000000
rad23	1.06935e-14	1.000000	1.06937e-14	1.000000
rad54	4.19057e-15	1.000000	4.19064e-15	1.000000
PAH10+CH3	2.85183e-15	1.000000	2.85189e-15	1.000000
rad43	6.82887e-16	1.000000	6.82898e-16	1.000000
rad31	2.52019e-16	1.000000	2.52023e-16	1.000000
rad62	1.50052e-16	1.000000	1.50055e-16	1.000000
rad45	8.97787e-17	1.000000	8.97802e-17	1.000000
rad20	7.60583e-17	1.000000	7.60595e-17	1.000000
rad21	5.83270e-17	1.000000	5.83281e-17	1.000000
rad52	9.30568e-18	1.000000	9.30584e-18	1.000000
rad22	7.87956e-18	1.000000	7.87970e-18	1.000000
PhcycC3H3_A+H	6.22472e-18	1.000000	6.22483e-18	1.000000
rad36	5.64211e-18	1.000000	5.64220e-18	1.000000
rad70	4.02805e-18	1.000000	4.02811e-18	1.000000

rad55	1.80904e-18	1.000000	1.80907e-18	1.000000
rad18	3.45518e-19	1.000000	3.45524e-19	1.000000
rad51	1.97543e-19	1.000000	1.97547e-19	1.000000
PAH1+H	1.16116e-19	1.000000	1.16118e-19	1.000000
rad34	5.97611e-21	1.000000	5.97621e-21	1.000000
rad58	4.63724e-21	1.000000	4.63732e-21	1.000000
rad65	1.41758e-21	1.000000	1.41760e-21	1.000000
rad42	8.42421e-23	1.000000	8.42436e-23	1.000000
rad41	2.39854e-23	1.000000	2.39858e-23	1.000000
rad24	9.10760e-24	1.000000	9.10775e-24	1.000000
rad47	1.52248e-30	1.000000	1.52251e-30	1.000000

0.100000000E-02 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.25016e-17 (1.00)	6.25003e-17 (1.00)
Formation of rad11	5.06355e-17 (0.810)	5.06344e-17 (0.810)
Formation of rad6	1.04318e-17 (0.167)	1.04316e-17 (0.167)
H-abstraction	1.43428e-18 (0.0229)	1.43428e-18 (0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.935020	0.935020	0.935040	0.935040
Benzene+2-propynyl	0.0229478	0.957968	0.0229483	0.957989
C2H2+PhCH2	0.0164449	0.974413	0.0164452	0.974434
rad6	0.0112059	0.985619	0.0112062	0.985640
PhCCH+CH3	0.00750908	0.993128	0.00750924	0.993149
PhCHCCH2+H	0.00392520	0.997053	0.00392529	0.997075
PhCCCH3+H	0.00255125	0.999604	0.00255131	0.999626
Ph+MeAc	0.000271628	0.999876	0.000271634	0.999898
rad8	3.06194e-05	0.999907	3.06202e-05	0.999928
rad9	2.64790e-05	0.999933	2.64796e-05	0.999955
Phenyl+Allene	2.19247e-05	0.999955	0.000000	0.999955
PAH7+H	1.81242e-05	0.999973	1.81246e-05	0.999973
rad28	1.02381e-05	0.999984	1.02383e-05	0.999983
rad2	5.85924e-06	0.999989	5.85937e-06	0.999989
rad39	3.74509e-06	0.999993	3.74517e-06	0.999993
rad12	1.77111e-06	0.999995	1.77115e-06	0.999994
rad26	1.22794e-06	0.999996	1.22797e-06	0.999996
rad30	1.21543e-06	0.999997	1.21545e-06	0.999997
rad7	8.52149e-07	0.999998	8.52168e-07	0.999998
rad1	4.09237e-07	0.999999	4.09247e-07	0.999998
PhCH2CCH+H	3.71789e-07	0.999999	3.71796e-07	0.999999
PAH9+H	3.02256e-07	0.999999	3.02263e-07	0.999999
rad10	3.01183e-07	1.000000	3.01190e-07	0.999999
rad15	2.78875e-07	1.000000	2.78882e-07	0.999999
rad11	2.11991e-07	1.000000	2.11996e-07	1.000000
rad35	1.36427e-07	1.000000	1.36430e-07	1.000000
rad38	8.81769e-08	1.000000	8.81788e-08	1.000000
rad37	4.02053e-08	1.000000	4.02063e-08	1.000000
rad3	3.71525e-08	1.000000	3.71534e-08	1.000000
rad4	1.93044e-08	1.000000	1.93048e-08	1.000000
rad13	4.75670e-09	1.000000	4.75681e-09	1.000000
rad46	1.46699e-09	1.000000	1.46702e-09	1.000000
rad5	9.21906e-10	1.000000	9.21926e-10	1.000000
rad60syn	2.15714e-10	1.000000	2.15718e-10	1.000000
rad60anti	7.64417e-11	1.000000	7.64434e-11	1.000000
rad33	9.21579e-12	1.000000	9.21599e-12	1.000000
rad14	4.85503e-12	1.000000	4.85515e-12	1.000000
rad27	3.68199e-12	1.000000	3.68207e-12	1.000000
rad25	3.31646e-12	1.000000	3.31653e-12	1.000000
PAH3+H	1.91413e-12	1.000000	1.91418e-12	1.000000
rad59	5.80877e-13	1.000000	5.80889e-13	1.000000
rad19syn	5.72655e-13	1.000000	5.72668e-13	1.000000
rad50	6.85572e-14	1.000000	6.85587e-14	1.000000
rad54	1.17534e-14	1.000000	1.17536e-14	1.000000
rad23	8.70847e-15	1.000000	8.70866e-15	1.000000
PAH10+CH3	7.95525e-15	1.000000	7.95542e-15	1.000000
rad43	1.89146e-15	1.000000	1.89150e-15	1.000000
rad62	4.56787e-16	1.000000	4.56796e-16	1.000000
rad31	2.17764e-16	1.000000	2.17769e-16	1.000000
rad45	7.30878e-17	1.000000	7.30894e-17	1.000000
rad20	6.59750e-17	1.000000	6.59764e-17	1.000000
rad21	5.07903e-17	1.000000	5.07914e-17	1.000000
PhcycC3H3_A+H	2.44047e-17	1.000000	2.44053e-17	1.000000
rad52	2.27515e-17	1.000000	2.27520e-17	1.000000
rad70	1.50974e-17	1.000000	1.50977e-17	1.000000
rad55	6.88155e-18	1.000000	6.88170e-18	1.000000
rad22	6.32104e-18	1.000000	6.32118e-18	1.000000

rad36	4.60911e-18	1.00000	4.60921e-18	1.000000
rad51	6.34163e-19	1.00000	6.34176e-19	1.000000
PAH1+H	5.20766e-19	1.00000	5.20777e-19	1.000000
rad18	2.97372e-19	1.00000	2.97378e-19	1.000000
rad34	2.78595e-20	1.00000	2.78600e-20	1.000000
rad58	1.85868e-20	1.00000	1.85871e-20	1.000000
rad65	5.16493e-21	1.00000	5.16505e-21	1.000000
rad42	4.29131e-22	1.00000	4.29140e-22	1.000000
rad41	1.23869e-22	1.00000	1.23872e-22	1.000000
rad24	8.58092e-24	1.00000	8.58110e-24	1.000000
rad47	5.51769e-30	1.00000	5.51780e-30	1.000000

0.100000000E-02 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83248e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04057e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55477e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.931172	0.931172	0.931198	0.931198
Benzene+2-propynyl	0.0268483	0.958020	0.0268490	0.958047
C2H2+PhCH2	0.0174349	0.975455	0.0174354	0.975483
rad6	0.00893009	0.984385	0.00893033	0.984413
PhCCH+CH3	0.00817744	0.992563	0.00817768	0.992591
PhCHCCH2+H	0.00422672	0.996789	0.00422683	0.996818
PhCCCH3+H	0.00275164	0.999541	0.00275172	0.999569
Ph+MeAc	0.000320777	0.999862	0.000320786	0.999890
rad8	3.37221e-05	0.999895	3.37231e-05	0.999924
rad9	3.03993e-05	0.999926	3.04002e-05	0.999954
Phenyl+Allene	2.81598e-05	0.999954	0.00000	0.999954
PAH7+H	2.11128e-05	0.999975	2.11134e-05	0.999975
rad28	8.19650e-06	0.999983	8.19672e-06	0.999984
rad2	4.66261e-06	0.999988	4.66275e-06	0.999988
rad39	4.46779e-06	0.999992	4.46792e-06	0.999993
rad12	2.00378e-06	0.999994	2.00383e-06	0.999995
rad30	1.32125e-06	0.999996	1.32129e-06	0.999996
rad26	9.79789e-07	0.999997	9.79817e-07	0.999997
rad7	6.79740e-07	0.999997	6.79759e-07	0.999998
PhCH2CCH+H	5.53810e-07	0.999998	5.53825e-07	0.999998
PAH9+H	3.35302e-07	0.999998	3.35312e-07	0.999999
rad1	3.29158e-07	0.999999	3.29167e-07	0.999999
rad15	3.08456e-07	0.999999	3.08465e-07	0.999999
rad10	2.40003e-07	0.999999	2.40009e-07	0.999999
rad11	1.69180e-07	0.999999	1.69185e-07	1.000000
rad35	1.49486e-07	1.000000	1.49490e-07	1.000000
rad38	9.87224e-08	1.000000	9.87252e-08	1.000000
rad37	5.30760e-08	1.000000	5.30775e-08	1.000000
rad3	2.95893e-08	1.000000	2.95900e-08	1.000000
rad4	1.54217e-08	1.000000	1.54222e-08	1.000000
rad13	3.80714e-09	1.000000	3.80726e-09	1.000000
rad46	1.74811e-09	1.000000	1.74817e-09	1.000000
rad5	1.38602e-09	1.000000	1.38606e-09	1.000000
rad60syn	2.73203e-10	1.000000	2.73210e-10	1.000000
rad60anti	9.88411e-11	1.000000	9.88439e-11	1.000000
rad33	7.39290e-12	1.000000	7.39311e-12	1.000000
rad14	3.89484e-12	1.000000	3.89494e-12	1.000000
PAH3+H	3.22877e-12	1.000000	3.22887e-12	1.000000
rad27	2.94736e-12	1.000000	2.94744e-12	1.000000
rad25	2.66079e-12	1.000000	2.66087e-12	1.000000
rad19syn	1.29197e-12	1.000000	1.29200e-12	1.000000
rad59	9.55816e-13	1.000000	9.55843e-13	1.000000
rad50	1.17407e-13	1.000000	1.17410e-13	1.000000
rad54	3.04297e-14	1.000000	3.04305e-14	1.000000
PAH10+CH3	2.04481e-14	1.000000	2.04486e-14	1.000000
rad23	7.25537e-15	1.000000	7.25557e-15	1.000000
rad43	4.82282e-15	1.000000	4.82296e-15	1.000000
rad62	1.27022e-15	1.000000	1.27025e-15	1.000000
rad31	1.89770e-16	1.000000	1.89776e-16	1.000000
PhcycC3H3_A+H	8.52732e-17	1.000000	8.52756e-17	1.000000
rad45	6.09063e-17	1.000000	6.09080e-17	1.000000
rad20	5.72793e-17	1.000000	5.72809e-17	1.000000
rad52	5.23456e-17	1.000000	5.23471e-17	1.000000
rad70	5.06341e-17	1.000000	5.06355e-17	1.000000
rad21	4.42766e-17	1.000000	4.42778e-17	1.000000
rad55	2.33952e-17	1.000000	2.33958e-17	1.000000
rad22	5.11867e-18	1.000000	5.11881e-18	1.000000

rad36	3.85617e-18	1.000000	3.85629e-18	1.00000
PAH1+H	2.04261e-18	1.000000	2.04266e-18	1.00000
rad51	1.86451e-18	1.000000	1.86456e-18	1.00000
rad18	2.56008e-19	1.000000	2.56015e-19	1.00000
rad34	1.13009e-19	1.000000	1.13013e-19	1.00000
rad58	6.62605e-20	1.000000	6.62624e-20	1.00000
rad65	1.69597e-20	1.000000	1.69602e-20	1.00000
rad42	1.87841e-21	1.000000	1.87845e-21	1.00000
rad41	5.48695e-22	1.000000	5.48710e-22	1.00000
rad24	8.18563e-24	1.000000	8.18585e-24	1.00000
rad47	1.77173e-29	1.000000	1.77179e-29	1.00000

0.100000000E-02 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.21641e-16 (1.00)	1.21637e-16 (1.00)
Formation of rad11	9.54219e-17 (0.784)	9.54183e-17 (0.784)
Formation of rad6	2.24583e-17 (0.185)	2.24575e-17 (0.185)
H-abstraction	3.76121e-18 (0.0309)	3.76121e-18 (0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.926571	0.926571	0.926605	0.926605
Benzene+2-propynyl	0.0309205	0.957491	0.0309216	0.957526
C2H2+PhCH2	0.0184816	0.975973	0.0184823	0.976009
PhCCH+CH3	0.00888668	0.984860	0.00888700	0.984896
rad6	0.00710480	0.991964	0.00710505	0.992001
PhCHCCH2+H	0.00454293	0.996507	0.00454310	0.996544
PhCCCH3+H	0.00296037	0.999468	0.00296048	0.999504
Ph+MeAc	0.000376603	0.999844	0.000376616	0.999881
rad8	3.70295e-05	0.999881	3.70309e-05	0.999918
Phenyl+Allene	3.59207e-05	0.999917	0.00000	0.999918
rad9	3.48210e-05	0.999952	3.48223e-05	0.999953
PAH7+H	2.45366e-05	0.999977	2.45375e-05	0.999977
rad28	6.54973e-06	0.999983	6.54996e-06	0.999984
rad39	5.30906e-06	0.999988	5.30925e-06	0.999989
rad2	3.70604e-06	0.999992	3.70617e-06	0.999993
rad12	2.25765e-06	0.999994	2.25773e-06	0.999995
rad30	1.43633e-06	0.999996	1.43638e-06	0.999996
PhCH2CCH+H	8.09400e-07	0.999997	8.09430e-07	0.999997
rad26	7.80594e-07	0.999997	7.80622e-07	0.999998
rad7	5.41402e-07	0.999998	5.41422e-07	0.999999
PAH9+H	3.72321e-07	0.999998	3.72334e-07	0.999999
rad15	3.41173e-07	0.999999	3.41185e-07	0.999999
rad1	2.64662e-07	0.999999	2.64672e-07	1.000000
rad10	1.91053e-07	0.999999	1.91060e-07	1.000000
rad35	1.63919e-07	0.999999	1.63925e-07	1.000000
rad11	1.34818e-07	0.999999	1.34823e-07	1.00000
rad38	1.10637e-07	1.000000	1.10642e-07	1.00000
rad37	6.87950e-08	1.000000	6.87974e-08	1.00000
rad3	2.35400e-08	1.000000	2.35409e-08	1.00000
rad4	1.23097e-08	1.000000	1.23102e-08	1.00000
rad13	3.04269e-09	1.000000	3.04280e-09	1.00000
rad46	2.08427e-09	1.000000	2.08434e-09	1.00000
rad5	2.03169e-09	1.000000	2.03177e-09	1.00000
rad60syn	3.44589e-10	1.000000	3.44601e-10	1.00000
rad60anti	1.27089e-10	1.000000	1.27094e-10	1.00000
rad33	5.92267e-12	1.000000	5.92289e-12	1.00000
PAH3+H	5.30160e-12	1.000000	5.30179e-12	1.00000
rad14	3.12045e-12	1.000000	3.12056e-12	1.00000
rad19syn	2.74912e-12	1.000000	2.74922e-12	1.00000
rad27	2.35669e-12	1.000000	2.35677e-12	1.00000
rad25	2.13179e-12	1.000000	2.13187e-12	1.00000
rad59	1.53283e-12	1.000000	1.53289e-12	1.00000
rad50	1.96314e-13	1.000000	1.96321e-13	1.00000
rad54	7.34110e-14	1.000000	7.34136e-14	1.00000
PAH10+CH3	4.88939e-14	1.000000	4.88957e-14	1.00000
rad43	1.14304e-14	1.000000	1.14309e-14	1.00000
rad23	6.20952e-15	1.000000	6.20975e-15	1.00000
rad62	3.26044e-15	1.000000	3.26055e-15	1.00000
PhcycC3H3_A+H	2.68862e-16	1.000000	2.68872e-16	1.00000
rad31	1.67113e-16	1.000000	1.67120e-16	1.00000
rad70	1.53839e-16	1.000000	1.53845e-16	1.00000
rad52	1.14157e-16	1.000000	1.14160e-16	1.00000
rad55	7.19637e-17	1.000000	7.19663e-17	1.00000
rad45	5.21714e-17	1.000000	5.21732e-17	1.00000
rad20	4.97861e-17	1.000000	4.97879e-17	1.00000
rad21	3.86507e-17	1.000000	3.86521e-17	1.00000
PAH1+H	7.11265e-18	1.000000	7.11290e-18	1.00000

rad51	5.06774e-18	1.000000	5.06793e-18	1.00000
rad22	4.19139e-18	1.000000	4.19155e-18	1.00000
rad36	3.31803e-18	1.000000	3.31815e-18	1.00000
rad34	4.05190e-19	1.000000	4.05204e-19	1.00000
rad18	2.20493e-19	1.000000	2.20500e-19	1.00000
rad58	2.12742e-19	1.000000	2.12751e-19	1.00000
rad65	5.07440e-20	1.000000	5.07458e-20	1.00000
rad42	7.19102e-21	1.000000	7.19127e-21	1.00000
rad41	2.12246e-21	1.000000	2.12253e-21	1.00000
rad24	7.90281e-24	1.000000	7.90310e-24	1.00000
rad47	5.11717e-29	1.000000	5.11735e-29	1.00000

0.100000000E-02 Pa, 260.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.63720e-16	(1.00)	1.63713e-16	(1.00)
Formation of rad11	1.26419e-16	(0.772)	1.26413e-16	(0.772)
Formation of rad6	3.15515e-17	(0.193)	3.15500e-17	(0.193)
H-abstraction	5.75028e-18	(0.0351)	5.75028e-18	(0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.921339	0.921339	0.921381	0.921381
Benzene+2-propynyl	0.0351226	0.956462	0.0351242	0.956505
C2H2+PhCH2	0.0195892	0.976051	0.0195901	0.976095
PhCCH+CH3	0.00963746	0.985689	0.00963789	0.985733
rad6	0.00564412	0.991333	0.00564438	0.991378
PhCHCCH2+H	0.00487390	0.996207	0.00487413	0.996252
PhCCCH3+H	0.00317704	0.999384	0.00317718	0.999429
Ph+MeAc	0.000439626	0.999823	0.000439646	0.999869
Phenyl+Allene	4.55230e-05	0.999869	0.00000	0.999869
rad8	4.05422e-05	0.999909	4.05441e-05	0.999909
rad9	3.97966e-05	0.999949	3.97984e-05	0.999949
PAH7+H	2.84507e-05	0.999978	2.84520e-05	0.999977
rad39	6.28495e-06	0.999984	6.28524e-06	0.999984
rad28	5.22487e-06	0.999989	5.22510e-06	0.999989
rad2	2.94289e-06	0.999992	2.94302e-06	0.999992
rad12	2.53333e-06	0.999995	2.53345e-06	0.999994
rad30	1.56149e-06	0.999996	1.56156e-06	0.999996
PhCH2CCH+H	1.16276e-06	0.999997	1.16282e-06	0.999997
rad26	6.21042e-07	0.999998	6.21070e-07	0.999998
rad7	4.30633e-07	0.999998	4.30653e-07	0.999998
PAH9+H	4.13821e-07	0.999999	4.13840e-07	0.999999
rad15	3.77351e-07	0.999999	3.77368e-07	0.999999
rad1	2.12789e-07	0.999999	2.12799e-07	0.999999
rad35	1.79886e-07	0.999999	1.79894e-07	0.999999
rad10	1.51960e-07	1.000000	1.51967e-07	1.000000
rad38	1.24108e-07	1.000000	1.24114e-07	1.000000
rad11	1.07293e-07	1.000000	1.07298e-07	1.000000
rad37	8.77460e-08	1.000000	8.77500e-08	1.000000
rad3	1.87107e-08	1.000000	1.87115e-08	1.000000
rad4	9.81965e-09	1.000000	9.82012e-09	1.000000
rad5	2.91108e-09	1.000000	2.91121e-09	1.000000
rad46	2.48601e-09	1.000000	2.48612e-09	1.000000
rad13	2.42853e-09	1.000000	2.42864e-09	1.000000
rad60syn	4.32862e-10	1.000000	4.32882e-10	1.000000
rad60anti	1.62530e-10	1.000000	1.62537e-10	1.000000
PAH3+H	8.49798e-12	1.000000	8.49837e-12	1.000000
rad19syn	5.55400e-12	1.000000	5.55425e-12	1.000000
rad33	4.73928e-12	1.000000	4.73949e-12	1.000000
rad14	2.49716e-12	1.000000	2.49727e-12	1.000000
rad59	2.40242e-12	1.000000	2.40253e-12	1.000000
rad27	1.88262e-12	1.000000	1.88270e-12	1.000000
rad25	1.70586e-12	1.000000	1.70593e-12	1.000000
rad50	3.21237e-13	1.000000	3.21252e-13	1.000000
rad54	1.66304e-13	1.000000	1.66312e-13	1.000000
PAH10+CH3	1.09620e-13	1.000000	1.09625e-13	1.000000
rad43	2.53853e-14	1.000000	2.53865e-14	1.000000
rad62	7.79228e-15	1.000000	7.79264e-15	1.000000
rad23	5.48464e-15	1.000000	5.48489e-15	1.000000
PhcycC3H3_A+H	7.72958e-16	1.000000	7.72993e-16	1.000000
rad70	4.27794e-16	1.000000	4.27813e-16	1.000000
rad52	2.37342e-16	1.000000	2.37352e-16	1.000000
rad55	2.02356e-16	1.000000	2.02365e-16	1.000000
rad31	1.49080e-16	1.000000	1.49088e-16	1.000000
rad45	4.61552e-17	1.000000	4.61573e-17	1.000000
rad20	4.33325e-17	1.000000	4.33344e-17	1.000000
rad21	3.37943e-17	1.000000	3.37957e-17	1.000000
PAH1+H	2.22696e-17	1.000000	2.22706e-17	1.000000

rad51	1.28302e-17	1.000000	1.28307e-17	1.000000
rad22	3.47919e-18	1.000000	3.47935e-18	1.000000
rad36	2.95032e-18	1.000000	2.95045e-18	1.000000
rad34	1.30137e-18	1.000000	1.30142e-18	1.000000
rad58	6.21703e-19	1.000000	6.21731e-19	1.000000
rad18	1.90016e-19	1.000000	1.90026e-19	1.000000
rad65	1.39609e-19	1.000000	1.39616e-19	1.000000
rad42	2.44403e-20	1.000000	2.44415e-20	1.000000
rad41	7.27954e-21	1.000000	7.27986e-21	1.000000
rad24	7.72028e-24	1.000000	7.72064e-24	1.000000
rad47	1.34647e-28	1.000000	1.34653e-28	1.000000

0.100000000E-02 Pa, 270.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.15887e-16	(1.00)	2.15875e-16	(1.00)
Formation of rad11	1.64133e-16	(0.760)	1.64123e-16	(0.760)
Formation of rad6	4.32452e-17	(0.200)	4.32426e-17	(0.200)
H-abstraction	8.50919e-18	(0.0394)	8.50919e-18	(0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.915582	0.915582	0.915634	0.915634
Benzene+2-propynyl	0.0394150	0.954997	0.0394173	0.955051
C2H2+PhCH2	0.0207617	0.975758	0.0207629	0.975814
PhCCH+CH3	0.0104302	0.986189	0.0104308	0.986245
PhCHCCH2+H	0.00521959	0.991408	0.00521988	0.991465
rad6	0.00447763	0.995886	0.00447789	0.995943
PhCCCH3+H	0.00340115	0.999287	0.00340135	0.999344
Ph+MeAc	0.000510344	0.999797	0.000510374	0.999855
Phenyl+Allene	5.73346e-05	0.999855	0.000000	0.999855
rad9	4.53824e-05	0.999900	4.53849e-05	0.999900
rad8	4.42585e-05	0.999944	4.42610e-05	0.999944
PAH7+H	3.29154e-05	0.999977	3.29173e-05	0.999977
rad39	7.41306e-06	0.999985	7.41349e-06	0.999985
rad28	4.16151e-06	0.999989	4.16175e-06	0.999989
rad12	2.83130e-06	0.999992	2.83146e-06	0.999992
rad2	2.33502e-06	0.999994	2.33515e-06	0.999994
rad30	1.69761e-06	0.999996	1.69771e-06	0.999996
PhCH2CCH+H	1.64438e-06	0.999997	1.64447e-06	0.999997
rad26	4.93499e-07	0.999998	4.93526e-07	0.999998
PAH9+H	4.60369e-07	0.999998	4.60396e-07	0.999998
rad15	4.17334e-07	0.999999	4.17358e-07	0.999999
rad7	3.42108e-07	0.999999	3.42127e-07	0.999999
rad35	1.97559e-07	0.999999	1.97570e-07	0.999999
rad1	1.71106e-07	0.999999	1.71115e-07	0.999999
rad38	1.39344e-07	0.999999	1.39353e-07	0.999999
rad10	1.20786e-07	1.000000	1.20793e-07	1.000000
rad37	1.10332e-07	1.000000	1.10338e-07	1.000000
rad11	8.52864e-08	1.000000	8.52913e-08	1.000000
rad3	1.48613e-08	1.000000	1.48622e-08	1.000000
rad4	7.82977e-09	1.000000	7.83021e-09	1.000000
rad5	4.08591e-09	1.000000	4.08615e-09	1.000000
rad46	2.96573e-09	1.000000	2.96590e-09	1.000000
rad13	1.93606e-09	1.000000	1.93617e-09	1.000000
rad60syn	5.41554e-10	1.000000	5.41585e-10	1.000000
rad60anti	2.06771e-10	1.000000	2.06783e-10	1.000000
PAH3+H	1.33279e-11	1.000000	1.33287e-11	1.000000
rad19syn	1.07119e-11	1.000000	1.07125e-11	1.000000
rad33	3.78846e-12	1.000000	3.78867e-12	1.000000
rad59	3.68818e-12	1.000000	3.68839e-12	1.000000
rad14	1.99641e-12	1.000000	1.99652e-12	1.000000
rad27	1.50277e-12	1.000000	1.50286e-12	1.000000
rad25	1.36355e-12	1.000000	1.36363e-12	1.000000
rad50	5.15347e-13	1.000000	5.15377e-13	1.000000
rad54	3.56015e-13	1.000000	3.56035e-13	1.000000
PAH10+CH3	2.31955e-13	1.000000	2.31969e-13	1.000000
rad43	5.31849e-14	1.000000	5.31880e-14	1.000000
rad62	1.74652e-14	1.000000	1.74662e-14	1.000000
rad23	5.02377e-15	1.000000	5.02406e-15	1.000000
PhcycC3H3_A+H	2.04430e-15	1.000000	2.04441e-15	1.000000
rad70	1.09826e-15	1.000000	1.09832e-15	1.000000
rad55	5.24700e-16	1.000000	5.24730e-16	1.000000
rad52	4.72572e-16	1.000000	4.72600e-16	1.000000
rad31	1.35163e-16	1.000000	1.35171e-16	1.000000
PAH1+H	6.33811e-17	1.000000	6.33848e-17	1.000000
rad45	4.23843e-17	1.000000	4.23867e-17	1.000000
rad20	3.77762e-17	1.000000	3.77784e-17	1.000000
rad51	3.04436e-17	1.000000	3.04454e-17	1.000000

rad21	2.96034e-17	1.000000	2.96052e-17	1.000000
rad34	3.78713e-18	1.000000	3.78734e-18	1.000000
rad22	2.93789e-18	1.000000	2.93807e-18	1.000000
rad36	2.72462e-18	1.000000	2.72478e-18	1.000000
rad58	1.66861e-18	1.000000	1.66871e-18	1.000000
rad65	3.55901e-19	1.000000	3.55921e-19	1.000000
rad18	1.63875e-19	1.000000	1.63885e-19	1.000000
rad42	7.46987e-20	1.000000	7.47031e-20	1.000000
rad41	2.24276e-20	1.000000	2.24289e-20	1.000000
rad24	7.63142e-24	1.000000	7.63186e-24	1.000000
rad47	3.26300e-28	1.000000	3.26319e-28	1.000000

0.100000000E-02 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79491e-16 (1.00)	2.79471e-16 (1.00)
Formation of rad11	2.09281e-16 (0.749)	2.09265e-16 (0.749)
Formation of rad6	5.79792e-17 (0.207)	5.79748e-17 (0.207)
H-abstraction	1.22310e-17 (0.0438)	1.22310e-17 (0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.909388	0.909388	0.909453	0.909453
Benzene+2-propynyl	0.0437616	0.953150	0.0437647	0.953218
C2H2+PhCH2	0.0220030	0.975153	0.0220046	0.975223
PhCCH+CH3	0.0112650	0.986418	0.0112658	0.986488
PhCHCCH2+H	0.00557984	0.991998	0.00558024	0.992069
PhCCCH3+H	0.00363208	0.995630	0.00363234	0.995701
rad6	0.00354785	0.999178	0.00354810	0.999249
Ph+MeAc	0.000589226	0.999767	0.000589268	0.999838
Phenyl+Allene	7.17811e-05	0.999839	0.000000	0.999838
rad9	5.16381e-05	0.999890	5.16419e-05	0.999890
rad8	4.81746e-05	0.999939	4.81781e-05	0.999938
PAH7+H	3.79963e-05	0.999977	3.79990e-05	0.999976
rad39	8.71257e-06	0.999985	8.71319e-06	0.999985
rad28	3.30990e-06	0.999989	3.31013e-06	0.999988
rad12	3.15182e-06	0.999992	3.15205e-06	0.999991
PhCH2CCH+H	2.29215e-06	0.999994	2.29232e-06	0.999994
rad2	1.85158e-06	0.999996	1.85172e-06	0.999996
rad30	1.84559e-06	0.999998	1.84573e-06	0.999997
PAH9+H	5.12585e-07	0.999998	5.12622e-07	0.999998
rad15	4.61488e-07	0.999999	4.61522e-07	0.999998
rad26	3.91725e-07	0.999999	3.91753e-07	0.999999
rad7	2.71482e-07	0.999999	2.71502e-07	0.999999
rad35	2.17123e-07	1.000000	2.17139e-07	0.999999
rad38	1.56576e-07	1.000000	1.56587e-07	0.999999
rad1	1.37638e-07	1.000000	1.37648e-07	1.000000
rad37	1.36972e-07	1.000000	1.36981e-07	1.000000
rad10	9.59633e-08	1.000000	9.59697e-08	1.000000
rad11	6.77214e-08	1.000000	6.77262e-08	1.000000
rad3	1.17978e-08	1.000000	1.17986e-08	1.000000
rad4	6.24174e-09	1.000000	6.24219e-09	1.000000
rad5	5.62801e-09	1.000000	5.62841e-09	1.000000
rad46	3.53791e-09	1.000000	3.53817e-09	1.000000
rad13	1.54187e-09	1.000000	1.54198e-09	1.000000
rad60syn	6.74797e-10	1.000000	6.74846e-10	1.000000
rad60anti	2.61711e-10	1.000000	2.61730e-10	1.000000
PAH3+H	2.04901e-11	1.000000	2.04915e-11	1.000000
rad19syn	1.98118e-11	1.000000	1.98132e-11	1.000000
rad59	5.55598e-12	1.000000	5.55638e-12	1.000000
rad33	3.02578e-12	1.000000	3.02599e-12	1.000000
rad14	1.59477e-12	1.000000	1.59489e-12	1.000000
rad27	1.19887e-12	1.000000	1.19896e-12	1.000000
rad25	1.08893e-12	1.000000	1.08901e-12	1.000000
rad50	8.11653e-13	1.000000	8.11712e-13	1.000000
rad54	7.23940e-13	1.000000	7.23993e-13	1.000000
PAH10+CH3	4.65769e-13	1.000000	4.65802e-13	1.000000
rad43	1.05713e-13	1.000000	1.05721e-13	1.000000
rad62	3.69328e-14	1.000000	3.69354e-14	1.000000
PhcycC3H3_A+H	5.01202e-15	1.000000	5.01238e-15	1.000000
rad23	4.79415e-15	1.000000	4.79449e-15	1.000000
rad70	2.62230e-15	1.000000	2.62249e-15	1.000000
rad55	1.26395e-15	1.000000	1.26404e-15	1.000000
rad52	9.04316e-16	1.000000	9.04381e-16	1.000000
PAH1+H	1.65527e-16	1.000000	1.65539e-16	1.000000
rad31	1.25058e-16	1.000000	1.25067e-16	1.000000
rad51	6.80515e-17	1.000000	6.80564e-17	1.000000
rad45	4.05978e-17	1.000000	4.06007e-17	1.000000
rad20	3.29936e-17	1.000000	3.29960e-17	1.000000

rad21	2.59877e-17	1.00000	2.59895e-17	1.000000
rad34	1.00852e-17	1.00000	1.00859e-17	1.000000
rad58	4.14531e-18	1.00000	4.14561e-18	1.000000
rad36	2.62617e-18	1.00000	2.62636e-18	1.000000
rad22	2.53560e-18	1.00000	2.53578e-18	1.000000
rad65	8.46185e-19	1.00000	8.46245e-19	1.000000
rad42	2.07592e-19	1.00000	2.07607e-19	1.000000
rad18	1.41458e-19	1.00000	1.41468e-19	1.000000
rad41	6.27698e-20	1.00000	6.27743e-20	1.000000
rad24	7.63467e-24	1.00000	7.63521e-24	1.000000
rad47	7.35072e-28	1.00000	7.35124e-28	1.000000

0.100000000E-02 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.55893e-16 (1.00)	3.55862e-16 (1.00)
Formation of rad11	2.62555e-16 (0.738)	2.62530e-16 (0.738)
Formation of rad6	7.62093e-17 (0.214)	7.62022e-17 (0.214)
H-abstraction	1.71289e-17 (0.0481)	1.71289e-17 (0.0481)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.902834	0.902834	0.902916	0.902916
Benzene+2-propynyl	0.0481294	0.950963	0.0481337	0.951049
C2H2+PhCH2	0.0233168	0.974280	0.0233189	0.974368
PhCCH+CH3	0.0121416	0.986422	0.0121427	0.986511
PhCHCCH2+H	0.00595442	0.992376	0.00595495	0.992466
PhCCCH3+H	0.00386910	0.996245	0.00386944	0.996335
rad6	0.00280803	0.999053	0.00280828	0.999144
Ph+MeAc	0.000676694	0.999730	0.000676754	0.999820
Phenyl+Allene	8.93509e-05	0.999819	0.000000	0.999820
rad9	5.86270e-05	0.999878	5.86322e-05	0.999879
rad8	5.22846e-05	0.999930	5.22893e-05	0.999931
PAH7+H	4.37640e-05	0.999974	4.37679e-05	0.999975
rad39	1.02041e-05	0.999984	1.02051e-05	0.999985
rad12	3.49494e-06	0.999988	3.49525e-06	0.999989
PhCH2CCH+H	3.15260e-06	0.999991	3.15288e-06	0.999992
rad28	2.62922e-06	0.999994	2.62945e-06	0.999995
rad30	2.00634e-06	0.999996	2.00652e-06	0.999997
rad2	1.46769e-06	0.999997	1.46783e-06	0.999998
PAH9+H	5.71153e-07	0.999998	5.71204e-07	0.999999
rad15	5.10201e-07	0.999998	5.10247e-07	0.999999
rad26	3.10651e-07	0.999998	3.10679e-07	0.999999
rad35	2.38782e-07	0.999999	2.38804e-07	1.000000
rad7	2.15227e-07	0.999999	2.15246e-07	1.000000
rad38	1.76059e-07	0.999999	1.76075e-07	1.000000
rad37	1.68091e-07	0.999999	1.68106e-07	1.000000
rad1	1.10786e-07	0.999999	1.10796e-07	1.000000
rad10	7.62233e-08	0.999999	7.62301e-08	1.000000
rad11	5.37236e-08	0.999999	5.37284e-08	1.000000
rad3	9.36292e-09	1.000000	9.36377e-09	1.000000
rad5	7.61954e-09	1.000000	7.62022e-09	1.000000
rad4	4.97580e-09	1.000000	4.97624e-09	1.000000
rad46	4.21934e-09	1.000000	4.21972e-09	1.000000
rad13	1.22683e-09	1.000000	1.22695e-09	1.000000
rad60syn	8.37397e-10	1.000000	8.37472e-10	1.000000
rad60anti	3.29580e-10	1.000000	3.29610e-10	1.000000
rad19syn	3.52674e-11	1.000000	3.52706e-11	1.000000
PAH3+H	3.09230e-11	1.000000	3.09258e-11	1.000000
rad59	8.22450e-12	1.000000	8.22523e-12	1.000000
rad33	2.41490e-12	1.000000	2.41511e-12	1.000000
rad54	1.40430e-12	1.000000	1.40443e-12	1.000000
rad14	1.27310e-12	1.000000	1.27322e-12	1.000000
rad50	1.25621e-12	1.000000	1.25632e-12	1.000000
rad27	9.56068e-13	1.000000	9.56150e-13	1.000000
PAH10+CH3	8.91605e-13	1.000000	8.91685e-13	1.000000
rad25	8.68939e-13	1.000000	8.69017e-13	1.000000
rad43	2.00295e-13	1.000000	2.00313e-13	1.000000
rad62	7.40610e-14	1.000000	7.40676e-14	1.000000
PhcycC3H3_A+H	1.14672e-14	1.000000	1.14682e-14	1.000000
rad70	5.86058e-15	1.000000	5.86111e-15	1.000000
rad23	4.78550e-15	1.000000	4.78593e-15	1.000000
rad55	2.84689e-15	1.000000	2.84716e-15	1.000000
rad52	1.66770e-15	1.000000	1.66784e-15	1.000000
PAH1+H	3.99939e-16	1.000000	3.99974e-16	1.000000
rad51	1.43930e-16	1.000000	1.43943e-16	1.000000
rad31	1.18690e-16	1.000000	1.18700e-16	1.000000
rad45	4.07398e-17	1.000000	4.07434e-17	1.000000
rad20	2.88770e-17	1.000000	2.88795e-17	1.000000

rad34	2.47885e-17	1.000000	2.47907e-17	1.00000
rad21	2.28683e-17	1.000000	2.28703e-17	1.00000
rad58	9.59714e-18	1.000000	9.59805e-18	1.00000
rad36	2.65358e-18	1.000000	2.65381e-18	1.00000
rad22	2.25050e-18	1.000000	2.25071e-18	1.00000
rad65	1.88709e-18	1.000000	1.88726e-18	1.00000
rad42	5.29609e-19	1.000000	5.29657e-19	1.00000
rad41	1.61146e-19	1.000000	1.61160e-19	1.00000
rad18	1.22238e-19	1.000000	1.22249e-19	1.00000
rad24	7.73364e-24	1.000000	7.73434e-24	1.00000
rad47	1.55167e-27	1.000000	1.55181e-27	1.00000

0.100000000E-02 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34395e-16 (1.00)	6.34337e-16 (1.00)
Formation of rad11	4.51153e-16 (0.711)	4.51110e-16 (0.711)
Formation of rad6	1.51589e-16 (0.239)	1.51574e-16 (0.239)
H-abstraction	3.16530e-17 (0.0499)	3.16530e-17 (0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.890144	0.890144	0.890225	0.890225
Benzene+2-propynyl	0.0498949	0.940039	0.0498994	0.940125
C2H2+PhCH2	0.0315819	0.971621	0.0315847	0.971709
PhCCH+CH3	0.0147194	0.986340	0.0147208	0.986430
PhCHCCH2+H	0.00649429	0.992834	0.00649488	0.992925
PhCCCH3+H	0.00441001	0.997244	0.00441041	0.997335
rad6	0.00174127	0.998986	0.00174143	0.999077
Ph+MeAc	0.000832183	0.999818	0.000832259	0.999909
Phenyl+Allene	9.10077e-05	0.999909	0.00000	0.999909
PAH7+H	6.53791e-05	0.999974	6.53851e-05	0.999974
rad39	1.30282e-05	0.999987	1.30294e-05	0.999987
PhCH2CCH+H	5.21654e-06	0.999993	5.21702e-06	0.999993
rad30	2.18938e-06	0.999995	2.18958e-06	0.999995
rad28	1.61354e-06	0.999996	1.61368e-06	0.999997
rad2	9.41742e-07	0.999997	9.41828e-07	0.999997
PAH9+H	7.92600e-07	0.999998	7.92672e-07	0.999998
rad19anti	6.98505e-07	0.999999	6.98569e-07	0.999999
rad35	2.84344e-07	0.999999	2.84369e-07	0.999999
rad37	2.26489e-07	0.999999	2.26510e-07	0.999999
rad38	2.11061e-07	0.999999	2.11080e-07	1.000000
rad26	2.01588e-07	1.000000	2.01606e-07	1.000000
rad7	1.53942e-07	1.000000	1.53956e-07	1.00000
rad1	7.09640e-08	1.000000	7.09704e-08	1.00000
rad10	5.41028e-08	1.000000	5.41077e-08	1.00000
rad11	3.76413e-08	1.00000	3.76446e-08	1.00000
rad3	6.38778e-09	1.00000	6.38836e-09	1.00000
rad46	5.65066e-09	1.00000	5.65118e-09	1.00000
rad4	3.17666e-09	1.00000	3.17695e-09	1.00000
rad60syn	1.07700e-09	1.00000	1.07710e-09	1.00000
rad13	8.90961e-10	1.00000	8.91042e-10	1.00000
rad60anti	4.37499e-10	1.00000	4.37538e-10	1.00000
rad19syn	6.93023e-11	1.00000	6.93086e-11	1.00000
PAH3+H	6.10598e-11	1.00000	6.10654e-11	1.00000
rad59	1.31883e-11	1.00000	1.31895e-11	1.00000
rad54	3.22176e-12	1.00000	3.22205e-12	1.00000
rad50	2.22789e-12	1.00000	2.22809e-12	1.00000
rad33	2.14107e-12	1.00000	2.14126e-12	1.00000
PAH10+CH3	2.02809e-12	1.00000	2.02827e-12	1.00000
rad14	1.05477e-12	1.00000	1.05487e-12	1.00000
rad25	9.04838e-13	1.00000	9.04920e-13	1.00000
rad27	8.58411e-13	1.00000	8.58490e-13	1.00000
rad67	7.75650e-13	1.00000	7.75720e-13	1.00000
rad23	4.80115e-13	1.00000	4.80159e-13	1.00000
rad43	4.01766e-13	1.00000	4.01803e-13	1.00000
rad62	1.66732e-13	1.00000	1.66747e-13	1.00000
PhcycC3H3_A+H	4.89417e-14	1.00000	4.89461e-14	1.00000
rad70	1.94751e-14	1.00000	1.94769e-14	1.00000
rad55	8.49269e-15	1.00000	8.49346e-15	1.00000
rad45	5.78669e-15	1.00000	5.78721e-15	1.00000
rad52	3.84568e-15	1.00000	3.84604e-15	1.00000
PAH1+H	2.34554e-15	1.00000	2.34576e-15	1.00000
rad21	6.57974e-16	1.00000	6.58035e-16	1.00000
rad20	6.23188e-16	1.00000	6.23245e-16	1.00000
rad31	5.35477e-16	1.00000	5.35526e-16	1.00000
rad51	4.07683e-16	1.00000	4.07720e-16	1.00000
rad22	3.92044e-16	1.00000	3.92080e-16	1.00000
rad36	1.97228e-16	1.00000	1.97246e-16	1.00000

rad34	1.57844e-16	1.00000	1.57858e-16	1.00000
rad9	1.21773e-16	1.00000	1.21784e-16	1.00000
rad58	2.99659e-17	1.00000	2.99686e-17	1.00000
rad18	1.54425e-17	1.00000	1.54439e-17	1.00000
rad65	6.36159e-18	1.00000	6.36217e-18	1.00000
rad42	4.93590e-18	1.00000	4.93635e-18	1.00000
rad41	1.53155e-18	1.00000	1.53170e-18	1.00000
rad5	1.22887e-19	1.00000	1.22898e-19	1.00000
rad53	1.09705e-19	1.00000	1.09715e-19	1.00000
rad15	7.22882e-20	1.00000	7.22948e-20	1.00000
rad64	2.63901e-20	1.00000	2.63926e-20	1.00000
rad24	3.46069e-21	1.00000	3.46101e-21	1.00000
rad56	3.11031e-22	1.00000	3.11059e-22	1.00000
rad61	3.56533e-23	1.00000	3.56565e-23	1.00000
rad68syn	3.28857e-23	1.00000	3.28887e-23	1.00000
rad68anti	2.37038e-23	1.00000	2.37060e-23	1.00000
rad12	1.45153e-24	1.00000	1.45167e-24	1.00000
rad40syn	5.33221e-26	1.00000	5.33270e-26	1.00000
rad40anti	1.32404e-26	1.00000	1.32416e-26	1.00000
PAH8+H	1.18658e-26	1.00000	1.18669e-26	1.00000
rad73	1.00791e-26	1.00000	1.00800e-26	1.00000
rad47	2.86509e-27	1.00000	2.86535e-27	1.00000
rad71	9.41571e-29	1.00000	9.41657e-29	1.00000
rad72	1.61244e-36	1.00000	1.61259e-36	1.00000
rad8	1.69064e-38	1.00000	1.69079e-38	1.00000

0.100000000E-02 Pa, 400.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	5.11288e-15	(1.00)	5.10969e-15	(1.00)
Formation of rad11	3.08094e-15	(0.603)	3.07881e-15	(0.603)
Formation of rad6	1.54092e-15	(0.301)	1.53986e-15	(0.301)
H-abstraction	4.91025e-16	(0.0960)	4.91025e-16	(0.0961)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.804539	0.804539	0.805042	0.805042
Benzene+2-propynyl	0.0960368	0.900576	0.0960968	0.901139
C2H2+PhCH2	0.0524214	0.952997	0.0524541	0.953593
PhCCH+CH3	0.0261790	0.979176	0.0261955	0.979789
PhCHCCH2+H	0.0106401	0.989816	0.0106468	0.990436
PhCCH3+H	0.00673971	0.996556	0.00674392	0.997180
Ph+MeAc	0.00227990	0.998836	0.00228133	0.999461
Phenyl+Allene	0.000625171	0.999461	0.00000	0.999461
PAH7+H	0.000215237	0.999676	0.000215372	0.999676
rad6	0.000199164	0.999875	0.000199289	0.999876
PhCH2CCH+H	6.37598e-05	0.999939	6.37997e-05	0.999939
rad39	4.87491e-05	0.999988	4.87796e-05	0.999988
rad30	4.70353e-06	0.999993	4.70647e-06	0.999993
rad19anti	2.54864e-06	0.999995	2.55024e-06	0.999995
PAH9+H	2.26768e-06	0.999998	2.26910e-06	0.999998
rad37	9.70667e-07	0.999998	9.71271e-07	0.999999
rad35	7.26210e-07	0.999999	7.26664e-07	0.999999
rad38	6.63135e-07	1.000000	6.63550e-07	1.000000
rad28	1.90678e-07	1.00000	1.90798e-07	1.00000
rad2	1.50739e-07	1.00000	1.50833e-07	1.00000
rad46	2.95593e-08	1.00000	2.95778e-08	1.00000
rad26	2.48385e-08	1.00000	2.48541e-08	1.00000
rad7	1.85297e-08	1.00000	1.85413e-08	1.00000
rad1	1.40283e-08	1.00000	1.40371e-08	1.00000
rad10	8.97017e-09	1.00000	8.97579e-09	1.00000
rad60syn	6.76466e-09	1.00000	6.76890e-09	1.00000
rad11	4.63114e-09	1.00000	4.63403e-09	1.00000
rad19syn	4.62760e-09	1.00000	4.63049e-09	1.00000
rad60anti	3.07207e-09	1.00000	3.07399e-09	1.00000
PAH3+H	1.45765e-09	1.00000	1.45856e-09	1.00000
rad3	1.16909e-09	1.00000	1.16981e-09	1.00000
rad4	6.15693e-10	1.00000	6.16078e-10	1.00000
rad54	4.18662e-10	1.00000	4.18924e-10	1.00000
rad59	2.84635e-10	1.00000	2.84813e-10	1.00000
PAH10+CH3	1.98083e-10	1.00000	1.98207e-10	1.00000
rad13	1.13759e-10	1.00000	1.13830e-10	1.00000
rad50	7.81096e-11	1.00000	7.81584e-11	1.00000
rad23	4.85344e-11	1.00000	4.85648e-11	1.00000
rad43	3.26742e-11	1.00000	3.26946e-11	1.00000
rad67	2.48913e-11	1.00000	2.49068e-11	1.00000
PhcycC3H3_A+H	2.37992e-11	1.00000	2.38141e-11	1.00000
rad62	2.26680e-11	1.00000	2.26822e-11	1.00000
rad70	7.63989e-12	1.00000	7.64467e-12	1.00000

rad55	3.50827e-12	1.00000	3.51046e-12	1.00000
rad45	2.32238e-12	1.00000	2.32384e-12	1.00000
PAH1+H	2.19405e-12	1.00000	2.19542e-12	1.00000
rad52	4.56321e-13	1.00000	4.56606e-13	1.00000
rad33	3.00045e-13	1.00000	3.00233e-13	1.00000
rad34	1.75091e-13	1.00000	1.75201e-13	1.00000
rad14	1.57595e-13	1.00000	1.57694e-13	1.00000
rad51	1.37008e-13	1.00000	1.37094e-13	1.00000
rad25	1.36204e-13	1.00000	1.36289e-13	1.00000
rad27	1.35510e-13	1.00000	1.35595e-13	1.00000
rad36	8.92435e-14	1.00000	8.92993e-14	1.00000
rad58	1.74187e-14	1.00000	1.74296e-14	1.00000
rad22	7.50647e-15	1.00000	7.51116e-15	1.00000
rad42	7.28224e-15	1.00000	7.28679e-15	1.00000
rad31	4.81347e-15	1.00000	4.81648e-15	1.00000
rad65	3.20527e-15	1.00000	3.20728e-15	1.00000
rad41	2.20600e-15	1.00000	2.20738e-15	1.00000
rad53	9.04243e-16	1.00000	9.04807e-16	1.00000
rad9	4.62469e-16	1.00000	4.62759e-16	1.00000
rad21	3.29900e-16	1.00000	3.30105e-16	1.00000
rad64	3.15118e-16	1.00000	3.15315e-16	1.00000
rad20	2.76850e-16	1.00000	2.77024e-16	1.00000
rad56	1.60206e-17	1.00000	1.60305e-17	1.00000
rad18	5.14256e-18	1.00000	5.14578e-18	1.00000
rad68syn	1.85200e-18	1.00000	1.85316e-18	1.00000
rad68anti	1.33298e-18	1.00000	1.33381e-18	1.00000
rad61	9.28587e-19	1.00000	9.29167e-19	1.00000
rad15	2.91462e-19	1.00000	2.91644e-19	1.00000
rad5	1.18636e-19	1.00000	1.18711e-19	1.00000
rad24	2.69339e-20	1.00000	2.69507e-20	1.00000
rad40syn	1.44655e-20	1.00000	1.44745e-20	1.00000
PAH8+H	8.93422e-21	1.00000	8.93981e-21	1.00000
rad40anti	3.68073e-21	1.00000	3.68303e-21	1.00000
rad73	2.49619e-21	1.00000	2.49775e-21	1.00000
rad71	1.21150e-22	1.00000	1.21226e-22	1.00000
rad12	2.60052e-23	1.00000	2.60215e-23	1.00000
rad47	7.50685e-25	1.00000	7.51155e-25	1.00000
rad72	1.56213e-26	1.00000	1.56311e-26	1.00000
rad8	4.61990e-36	1.00000	4.62279e-36	1.00000

0.100000000E-02 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.11551e-14 (1.00)	2.10968e-14 (1.00)
Formation of rad11	1.10850e-14 (0.524)	1.10494e-14 (0.524)
Formation of rad6	7.08033e-15 (0.335)	7.05760e-15 (0.335)
H-abstraction	2.98976e-15 (0.141)	2.98976e-15 (0.142)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.706825	0.706825	0.708779	0.708779
Benzene+2-propynyl	0.141326	0.848150	0.141716	0.850496
C2H2+PhCH2	0.0810622	0.929213	0.0812863	0.931782
PhCCH+CH3	0.0389243	0.968137	0.0390319	0.970814
PhCHCCH2+H	0.0153825	0.983519	0.0154250	0.986239
PhCCCH3+H	0.00823305	0.991752	0.00825582	0.994495
Ph+MeAc	0.00432598	0.996078	0.00433795	0.998833
Phenyl+Allene	0.00275697	0.998835	0.000000	0.998833
PAH7+H	0.000574557	0.999410	0.000576145	0.999409
PhCH2CCH+H	0.000399493	0.999809	0.000400598	0.999809
rad39	0.000137870	0.999947	0.000138251	0.999948
rad6	2.29922e-05	0.999970	2.30557e-05	0.999971
rad30	9.14205e-06	0.999979	9.16733e-06	0.999980
rad19anti	7.87627e-06	0.999987	7.89805e-06	0.999988
PAH9+H	6.12528e-06	0.999993	6.14221e-06	0.999994
rad37	2.41728e-06	0.999996	2.42396e-06	0.999996
rad38	1.93379e-06	0.999998	1.93913e-06	0.999998
rad35	1.76497e-06	0.999999	1.76985e-06	1.000000
rad46	1.27845e-07	1.000000	1.28199e-07	1.000000
rad19syn	7.63955e-08	1.000000	7.66067e-08	1.000000
rad2	6.80190e-08	1.000000	6.82070e-08	1.000000
rad60syn	2.91284e-08	1.000000	2.92089e-08	1.000000
rad28	2.24749e-08	1.000000	2.25371e-08	1.000000
PAH3+H	1.45897e-08	1.000000	1.46301e-08	1.000000
rad60anti	1.41767e-08	1.000000	1.42159e-08	1.000000
rad54	1.02841e-08	1.000000	1.03125e-08	1.000000
rad1	8.13360e-09	1.000000	8.15609e-09	1.000000
rad26	3.48277e-09	1.000000	3.49240e-09	1.000000
rad10	3.42286e-09	1.000000	3.43232e-09	1.000000

PAH10+CH3	3.35616e-09	1.000000	3.36544e-09	1.000000
rad59	2.61913e-09	1.000000	2.62636e-09	1.000000
rad7	2.30081e-09	1.000000	2.30717e-09	1.000000
rad23	1.88600e-09	1.000000	1.89122e-09	1.000000
PhcycC3H3_A+H	1.25837e-09	1.000000	1.26185e-09	1.000000
rad50	1.15871e-09	1.000000	1.16191e-09	1.000000
rad3	9.37896e-10	1.000000	9.40490e-10	1.000000
rad11	5.96445e-10	1.000000	5.98093e-10	1.000000
rad4	5.30386e-10	1.000000	5.31852e-10	1.000000
rad62	4.84004e-10	1.000000	4.85342e-10	1.000000
rad43	4.60440e-10	1.000000	4.61714e-10	1.000000
rad67	3.97887e-10	1.000000	3.98988e-10	1.000000
rad70	3.42514e-10	1.000000	3.43460e-10	1.000000
rad45	2.33266e-10	1.000000	2.33911e-10	1.000000
PAH1+H	1.64298e-10	1.000000	1.64752e-10	1.000000
rad55	1.59820e-10	1.000000	1.60262e-10	1.000000
rad13	1.56435e-11	1.000000	1.56868e-11	1.000000
rad34	1.41615e-11	1.000000	1.42006e-11	1.000000
rad52	1.34864e-11	1.000000	1.35237e-11	1.000000
rad36	1.21191e-11	1.000000	1.21526e-11	1.000000
rad51	7.25600e-12	1.000000	7.27606e-12	1.000000
rad58	1.01105e-12	1.000000	1.01385e-12	1.000000
rad42	6.16350e-13	1.000000	6.18053e-13	1.000000
rad53	2.35891e-13	1.000000	2.36542e-13	1.000000
rad65	2.01968e-13	1.000000	2.02526e-13	1.000000
rad22	1.84047e-13	1.000000	1.84556e-13	1.000000
rad41	1.64903e-13	1.000000	1.65359e-13	1.000000
rad64	9.67597e-14	1.000000	9.70272e-14	1.000000
rad33	4.99882e-14	1.000000	5.01264e-14	1.000000
rad27	3.61730e-14	1.000000	3.62730e-14	1.000000
rad14	3.15609e-14	1.000000	3.16482e-14	1.000000
rad25	2.72031e-14	1.000000	2.72782e-14	1.000000
rad31	2.30600e-14	1.000000	2.31237e-14	1.000000
rad56	1.22141e-14	1.000000	1.22479e-14	1.000000
rad9	5.47055e-15	1.000000	5.48568e-15	1.000000
rad68syn	1.45390e-15	1.000000	1.45791e-15	1.000000
rad68anti	1.02697e-15	1.000000	1.02982e-15	1.000000
rad61	4.15842e-16	1.000000	4.16991e-16	1.000000
rad21	4.15503e-16	1.000000	4.16652e-16	1.000000
rad20	2.67957e-16	1.000000	2.68698e-16	1.000000
PAH8+H	3.39132e-17	1.000000	3.40069e-17	1.000000
rad40syn	2.93371e-17	1.000000	2.94182e-17	1.000000
rad73	1.99417e-17	1.000000	1.99968e-17	1.000000
rad71	1.21271e-17	1.000000	1.21607e-17	1.000000
rad40anti	8.41493e-18	1.000000	8.43820e-18	1.000000
rad15	3.71864e-18	1.000000	3.72892e-18	1.000000
rad18	2.39714e-18	1.000000	2.40377e-18	1.000000
rad24	1.00044e-18	1.000000	1.00321e-18	1.000000
rad72	1.31351e-19	1.000000	1.31715e-19	1.000000
rad5	7.52158e-20	1.000000	7.54237e-20	1.000000
rad12	7.21852e-21	1.000000	7.23848e-21	1.000000
rad47	4.86125e-23	1.000000	4.87469e-23	1.000000
rad8	8.46120e-33	1.000000	8.48460e-33	1.000000

0.100000000E-02 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.08120e-14 (1.00)	6.02870e-14 (1.00)
Formation of rad11	2.83304e-14 (0.466)	2.80313e-14 (0.465)
Formation of rad6	2.13840e-14 (0.352)	2.11582e-14 (0.351)
H-abstraction	1.10975e-14 (0.182)	1.10975e-14 (0.184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.606958	0.606958	0.612243	0.612243
Benzene+2-propynyl	0.182488	0.789447	0.184077	0.796320
C2H2+PhCH2	0.112822	0.902269	0.113805	0.910125
PhCCH+CH3	0.0502849	0.952554	0.0507228	0.960848
PhCHCCH2+H	0.0208927	0.973447	0.0210747	0.981923
Phenyl+Allene	0.00863292	0.982079	0.000000	0.981923
PhCCCH3+H	0.00840770	0.990487	0.00848094	0.990404
Ph+MeAc	0.00630808	0.996795	0.00636301	0.996767
PhCH2CCH+H	0.00158531	0.998381	0.00159911	0.998366
PAH7+H	0.00124693	0.999628	0.00125779	0.999624
rad39	0.000304526	0.999932	0.000307179	0.999931
rad19anti	2.07270e-05	0.999953	2.09075e-05	0.999952
rad30	1.54405e-05	0.999968	1.55749e-05	0.999967
PAH9+H	1.45711e-05	0.999983	1.46979e-05	0.999982
rad38	4.88276e-06	0.999988	4.92528e-06	0.999987

rad37	4.23937e-06	0.999992	4.27629e-06	0.999991
rad35	3.83111e-06	0.999996	3.86446e-06	0.999995
rad6	2.95075e-06	0.999999	2.97645e-06	0.999998
rad19syn	5.75836e-07	0.999999	5.80850e-07	0.999999
rad46	4.35562e-07	1.000000	4.39355e-07	0.999999
rad54	1.01017e-07	1.000000	1.01896e-07	0.999999
rad60syn	8.96205e-08	1.000000	9.04010e-08	0.999999
PAH3+H	8.11809e-08	1.000000	8.18876e-08	0.999999
rad2	5.16112e-08	1.000000	5.20606e-08	0.999999
rad60anti	4.57634e-08	1.000000	4.61620e-08	0.999999
PAH10+CH3	2.25872e-08	1.000000	2.27839e-08	1.000000
PhcycC3H3_A+H	2.05528e-08	1.000000	2.07318e-08	1.000000
rad59	1.35484e-08	1.000000	1.36664e-08	1.000000
rad50	9.41193e-09	1.000000	9.49383e-09	1.000000
rad23	8.73037e-09	1.000000	8.80642e-09	1.000000
rad1	7.86433e-09	1.000000	7.93282e-09	1.000000
rad70	4.88193e-09	1.000000	4.92444e-09	1.000000
rad62	3.91163e-09	1.000000	3.94570e-09	1.000000
rad67	3.65825e-09	1.000000	3.69011e-09	1.000000
PAH1+H	3.25979e-09	1.000000	3.28818e-09	1.000000
rad28	2.87838e-09	1.000000	2.90344e-09	1.000000
rad43	2.57537e-09	1.000000	2.59779e-09	1.000000
rad55	2.29327e-09	1.000000	2.31324e-09	1.000000
rad10	1.70105e-09	1.000000	1.71585e-09	1.000000
rad45	1.25446e-09	1.000000	1.26537e-09	1.000000
rad3	1.00557e-09	1.000000	1.01432e-09	1.000000
rad26	6.54070e-10	1.000000	6.59766e-10	1.000000
rad4	6.35726e-10	1.000000	6.41261e-10	1.000000
rad7	3.27583e-10	1.000000	3.30435e-10	1.000000
rad34	2.96009e-10	1.000000	2.98587e-10	1.000000
rad52	1.71658e-10	1.000000	1.73153e-10	1.000000
rad51	1.36050e-10	1.000000	1.37235e-10	1.000000
rad36	1.09055e-10	1.000000	1.10005e-10	1.000000
rad11	9.01388e-11	1.000000	9.09240e-11	1.000000
rad58	1.71361e-11	1.000000	1.72853e-11	1.000000
rad42	1.22234e-11	1.000000	1.23299e-11	1.000000
rad53	1.06174e-11	1.000000	1.07098e-11	1.000000
rad64	4.60213e-12	1.000000	4.64221e-12	1.000000
rad65	4.09819e-12	1.000000	4.13388e-12	1.000000
rad41	2.76824e-12	1.000000	2.79235e-12	1.000000
rad13	2.68232e-12	1.000000	2.70568e-12	1.000000
rad56	1.10581e-12	1.000000	1.11544e-12	1.000000
rad22	7.56143e-13	1.000000	7.62728e-13	1.000000
rad68syn	1.32258e-13	1.000000	1.33410e-13	1.000000
rad9	1.27425e-13	1.000000	1.28535e-13	1.000000
rad68anti	9.19096e-14	1.000000	9.27100e-14	1.000000
rad71	3.99532e-14	1.000000	4.03011e-14	1.000000
rad73	3.23649e-14	1.000000	3.26467e-14	1.000000
rad31	3.08110e-14	1.000000	3.10793e-14	1.000000
rad61	2.52455e-14	1.000000	2.54654e-14	1.000000
rad33	1.68923e-14	1.000000	1.70395e-14	1.000000
rad27	1.53520e-14	1.000000	1.54856e-14	1.000000
rad25	1.04259e-14	1.000000	1.05167e-14	1.000000
rad14	1.02170e-14	1.000000	1.03060e-14	1.000000
PAH8+H	9.34007e-15	1.000000	9.42138e-15	1.000000
rad40syn	5.09677e-15	1.000000	5.14115e-15	1.000000
rad21	2.57162e-15	1.000000	2.59401e-15	1.000000
rad40anti	1.69276e-15	1.000000	1.70751e-15	1.000000
rad20	1.15021e-15	1.000000	1.16023e-15	1.000000
rad72	1.12961e-15	1.000000	1.13944e-15	1.000000
rad15	8.46582e-17	1.000000	8.53953e-17	1.000000
rad24	7.53385e-17	1.000000	7.59946e-17	1.000000
rad12	3.32611e-18	1.000000	3.35507e-18	1.000000
rad18	1.97648e-18	1.000000	1.99370e-18	1.000000
rad5	4.37274e-20	1.000000	4.41081e-20	1.000000
rad47	1.07014e-21	1.000000	1.07946e-21	1.000000
rad8	7.36801e-29	1.000000	7.43217e-29	1.000000

0.100000000E-02 Pa, 700.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.39564e-13	(1.00)	1.36669e-13	(1.00)
Formation of rad11	5.88273e-14	(0.422)	5.72650e-14	(0.419)
Formation of rad6	5.01684e-14	(0.359)	4.88360e-14	(0.357)
H-abstraction	3.05678e-14	(0.219)	3.05678e-14	(0.224)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.510461	0.510461	0.521273	0.521273

Benzene+2-propynyl	0.219024	0.729486	0.223663	0.744936
C2H2+PhCH2	0.140685	0.870171	0.143665	0.888601
PhCCH+CH3	0.0586069	0.928778	0.0598482	0.948449
PhCHCCH2+H	0.0277614	0.956539	0.0283494	0.976799
Phenyl+Allene	0.0207412	0.977280	0.000000	0.976799
Ph+MeAc	0.00771313	0.984993	0.007787648	0.984675
PhCCCH3+H	0.00756024	0.992553	0.00772037	0.992396
PhCH2CCH+H	0.00451176	0.997065	0.00460732	0.997003
PAH7+H	0.00225722	0.999322	0.00230503	0.999308
rad39	0.000548275	0.999871	0.000559889	0.999868
rad19anti	4.66031e-05	0.999917	4.75901e-05	0.999915
PAH9+H	2.99989e-05	0.999947	3.06343e-05	0.999946
rad30	2.26756e-05	0.999970	2.31559e-05	0.999969
rad38	1.05317e-05	0.999981	1.07547e-05	0.999980
rad35	7.29844e-06	0.999988	7.45303e-06	0.999987
rad37	5.93509e-06	0.999994	6.06080e-06	0.999993
rad19syn	2.61379e-06	0.999996	2.66915e-06	0.999996
rad46	1.18443e-06	0.999998	1.20952e-06	0.999997
rad54	5.53864e-07	0.999998	5.65595e-07	0.999998
rad6	4.42265e-07	0.999999	4.51632e-07	0.999998
PAH3+H	2.96687e-07	0.999999	3.02971e-07	0.999999
rad60syn	2.09900e-07	0.999999	2.14347e-07	0.999999
PhcycC3H3_A+H	1.62838e-07	0.999999	1.66287e-07	0.999999
rad60anti	1.11058e-07	0.999999	1.13410e-07	0.999999
PAH10+CH3	8.88633e-08	0.999999	9.07452e-08	0.999999
rad50	4.90394e-08	0.999999	5.00781e-08	0.999999
rad59	4.64277e-08	1.000000	4.74110e-08	0.999999
rad70	3.43280e-08	1.000000	3.50551e-08	0.999999
PAH1+H	2.87940e-08	1.000000	2.94039e-08	0.999999
rad2	2.26069e-08	1.000000	2.30857e-08	0.999999
rad67	2.16422e-08	1.000000	2.21006e-08	0.999999
rad62	1.75399e-08	1.000000	1.79113e-08	0.999999
rad55	1.62462e-08	1.000000	1.65903e-08	0.999999
rad23	9.50096e-09	1.000000	9.70219e-09	0.999999
rad43	8.26796e-09	1.000000	8.44305e-09	0.999999
rad1	4.13620e-09	1.000000	4.22380e-09	0.999999
rad34	2.73088e-09	1.000000	2.78872e-09	0.999999
rad45	1.51572e-09	1.000000	1.54782e-09	1.000000
rad51	1.27788e-09	1.000000	1.30494e-09	1.000000
rad52	1.22700e-09	1.000000	1.25298e-09	1.000000
rad10	5.90316e-10	1.000000	6.02819e-10	1.000000
rad3	4.79552e-10	1.000000	4.89709e-10	1.000000
rad28	4.27337e-10	1.000000	4.36387e-10	1.000000
rad4	3.30399e-10	1.000000	3.37397e-10	1.000000
rad53	1.69566e-10	1.000000	1.73158e-10	1.000000
rad36	1.48194e-10	1.000000	1.51333e-10	1.000000
rad26	1.39746e-10	1.000000	1.42706e-10	1.000000
rad58	1.35887e-10	1.000000	1.38765e-10	1.000000
rad42	1.03511e-10	1.000000	1.05703e-10	1.000000
rad64	7.31609e-11	1.000000	7.47106e-11	1.000000
rad7	5.71063e-11	1.000000	5.83158e-11	1.000000
rad65	3.98744e-11	1.000000	4.07189e-11	1.000000
rad56	2.88520e-11	1.000000	2.94631e-11	1.000000
rad41	1.95452e-11	1.000000	1.99591e-11	1.000000
rad11	1.74338e-11	1.000000	1.78030e-11	1.000000
rad68syn	3.41900e-12	1.000000	3.49142e-12	1.000000
rad9	3.07966e-12	1.000000	3.14489e-12	1.000000
rad68anti	2.34676e-12	1.000000	2.39647e-12	1.000000
rad71	8.86353e-13	1.000000	9.05131e-13	1.000000
rad22	8.44742e-13	1.000000	8.62634e-13	1.000000
rad13	7.05508e-13	1.000000	7.20452e-13	1.000000
rad73	6.89746e-13	1.000000	7.04356e-13	1.000000
PAH8+H	5.03608e-13	1.000000	5.14275e-13	1.000000
rad61	4.85689e-13	1.000000	4.95976e-13	1.000000
rad40syn	2.06948e-13	1.000000	2.11331e-13	1.000000
rad40anti	7.65541e-14	1.000000	7.81755e-14	1.000000
rad33	4.31608e-14	1.000000	4.40750e-14	1.000000
rad21	4.09762e-14	1.000000	4.18442e-14	1.000000
rad72	2.81803e-14	1.000000	2.87772e-14	1.000000
rad31	1.78457e-14	1.000000	1.82236e-14	1.000000
rad20	1.54404e-14	1.000000	1.57675e-14	1.000000
rad25	9.67762e-15	1.000000	9.88253e-15	1.000000
rad27	7.85279e-15	1.000000	8.01909e-15	1.000000
rad14	5.55390e-15	1.000000	5.67154e-15	1.000000
rad24	3.97601e-15	1.000000	4.06022e-15	1.000000
rad15	1.42924e-15	1.000000	1.45951e-15	1.000000
rad12	4.79735e-16	1.000000	4.89896e-16	1.000000
rad18	4.11277e-18	1.000000	4.19989e-18	1.000000
rad5	2.81778e-20	1.000000	2.87747e-20	1.000000
rad47	9.15960e-21	1.000000	9.35354e-21	1.000000

rad8 | 9.26479e-25 1.000000 | 9.46106e-25 1.000000

0.100000000E-02 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.75392e-13 (1.00)	2.64229e-13 (1.00)
Formation of rad11	1.06471e-13 (0.387)	1.00706e-13 (0.381)
Formation of rad6	9.97133e-14 (0.362)	9.43146e-14 (0.357)
H-abstraction	6.92082e-14 (0.251)	6.92082e-14 (0.262)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.420966	0.420966	0.438751	0.438751
Benzene+2-propynyl	0.251308	0.672273	0.261925	0.700676
C2H2+PhCH2	0.158755	0.831028	0.165462	0.866138
PhCCH+CH3	0.0631444	0.894173	0.0658122	0.931951
Phenyl+Allene	0.0405361	0.934709	0.000000	0.931951
PhCHCCH2+H	0.0360790	0.970788	0.0376033	0.969554
PhCH2CCH+H	0.00999819	0.980786	0.0104206	0.979974
Ph+MeAc	0.00840377	0.989190	0.00875881	0.988733
PhCCCH3+H	0.00623435	0.995424	0.00649774	0.995231
PAH7+H	0.00351017	0.998934	0.00365847	0.998889
rad39	0.000836589	0.999771	0.000871932	0.999761
rad19anti	9.01935e-05	0.999861	9.40042e-05	0.999855
PAH9+H	5.38612e-05	0.999915	5.61368e-05	0.999911
rad30	2.94554e-05	0.999944	3.06998e-05	0.999942
rad38	1.96298e-05	0.999964	2.04591e-05	0.999963
rad35	1.22733e-05	0.999976	1.27918e-05	0.999975
rad19syn	8.33347e-06	0.999985	8.68552e-06	0.999984
rad37	7.26186e-06	0.999992	7.56866e-06	0.999992
rad46	2.65288e-06	0.999995	2.76496e-06	0.999994
rad54	2.03470e-06	0.999997	2.12067e-06	0.999997
PAH3+H	7.96496e-07	0.999997	8.30150e-07	0.999997
PhcycC3H3_A+H	7.94325e-07	0.999998	8.27884e-07	0.999998
rad60syn	3.96787e-07	0.999999	4.13551e-07	0.999999
PAH10+CH3	2.53235e-07	0.999999	2.63934e-07	0.999999
rad60anti	2.15810e-07	0.999999	2.24928e-07	0.999999
rad50	1.82530e-07	0.999999	1.90242e-07	0.999999
rad70	1.50040e-07	0.999999	1.56380e-07	0.999999
PAH1+H	1.48685e-07	1.000000	1.54967e-07	1.000000
rad59	1.17661e-07	1.000000	1.22632e-07	1.000000
rad67	9.03402e-08	1.000000	9.41569e-08	1.000000
rad6	8.26182e-08	1.000000	8.61090e-08	1.000000
rad55	7.18814e-08	1.000000	7.49183e-08	1.000000
rad62	5.32909e-08	1.000000	5.55423e-08	1.000000
rad43	1.85243e-08	1.000000	1.93069e-08	1.000000
rad34	1.46560e-08	1.000000	1.52751e-08	1.000000
rad51	7.29176e-09	1.000000	7.59981e-09	1.000000
rad2	6.36272e-09	1.000000	6.63153e-09	1.000000
rad52	5.75935e-09	1.000000	6.00268e-09	1.000000
rad23	5.12912e-09	1.000000	5.34582e-09	1.000000
rad53	1.38658e-09	1.000000	1.44516e-09	1.000000
rad1	1.18695e-09	1.000000	1.23710e-09	1.000000
rad45	1.04009e-09	1.000000	1.08403e-09	1.000000
rad58	6.48501e-10	1.000000	6.75899e-10	1.000000
rad64	5.75123e-10	1.000000	5.99422e-10	1.000000
rad42	5.07643e-10	1.000000	5.29090e-10	1.000000
rad56	3.39886e-10	1.000000	3.54246e-10	1.000000
rad65	2.31388e-10	1.000000	2.41164e-10	1.000000
rad10	1.54588e-10	1.000000	1.61119e-10	1.000000
rad3	1.48957e-10	1.000000	1.55250e-10	1.000000
rad4	1.05311e-10	1.000000	1.09761e-10	1.000000
rad36	9.74603e-11	1.000000	1.01578e-10	1.000000
rad28	8.28031e-11	1.000000	8.63016e-11	1.000000
rad41	7.95830e-11	1.000000	8.29449e-11	1.000000
rad68syn	3.95202e-11	1.000000	4.11899e-11	1.000000
rad9	3.81986e-11	1.000000	3.98124e-11	1.000000
rad26	2.95253e-11	1.000000	3.07727e-11	1.000000
rad68anti	2.68691e-11	1.000000	2.80043e-11	1.000000
rad7	1.34160e-11	1.000000	1.39828e-11	1.000000
PAH8+H	9.85848e-12	1.000000	1.02750e-11	1.000000
rad11	5.36578e-12	1.000000	5.59248e-12	1.000000
rad61	4.50929e-12	1.000000	4.69980e-12	1.000000
rad40syn	3.29821e-12	1.000000	3.43756e-12	1.000000
rad71	2.78267e-12	1.000000	2.90024e-12	1.000000
rad73	2.73929e-12	1.000000	2.85503e-12	1.000000
rad40anti	1.29282e-12	1.000000	1.34744e-12	1.000000
rad13	8.38543e-13	1.000000	8.73969e-13	1.000000
rad21	5.91422e-13	1.000000	6.16408e-13	1.000000

rad22	4.89675e-13	1.00000	5.10364e-13	1.00000
rad33	2.89782e-13	1.00000	3.02025e-13	1.00000
rad20	2.27628e-13	1.00000	2.37245e-13	1.00000
rad72	8.25478e-14	1.00000	8.60352e-14	1.00000
rad24	5.58423e-14	1.00000	5.82016e-14	1.00000
rad25	1.94918e-14	1.00000	2.03154e-14	1.00000
rad12	1.15860e-14	1.00000	1.20755e-14	1.00000
rad15	1.11490e-14	1.00000	1.16200e-14	1.00000
rad31	8.40669e-15	1.00000	8.76191e-15	1.00000
rad27	8.22191e-15	1.00000	8.56927e-15	1.00000
rad14	6.22225e-15	1.00000	6.48514e-15	1.00000
rad18	2.76023e-17	1.00000	2.87685e-17	1.00000
rad47	5.08814e-20	1.00000	5.30310e-20	1.00000
rad5	2.41614e-20	1.00000	2.51822e-20	1.00000
rad8	3.33361e-21	1.00000	3.47446e-21	1.00000

0.100000000E-02 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.88072e-13 (1.00)	4.55158e-13 (1.00)
Formation of rad11	1.74945e-13 (0.358)	1.58562e-13 (0.348)
Formation of rad6	1.76509e-13 (0.362)	1.59979e-13 (0.351)
H-abstraction	1.36618e-13 (0.280)	1.36618e-13 (0.300)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.341015	0.341015	0.365675	0.365675
Benzene+2-propynyl	0.279914	0.620929	0.300155	0.665830
C2H2+PhCH2	0.164624	0.785553	0.176529	0.842359
Phenyl+Allene	0.0674364	0.852989	0.000000	0.842359
PhCCH+CH3	0.0639257	0.916915	0.0685483	0.910907
PhCHCCH2+H	0.0451267	0.962041	0.0483900	0.959297
PhCH2CCH+H	0.0182967	0.980338	0.0196198	0.978917
Ph+MeAc	0.00849313	0.988831	0.00910729	0.988024
PhCCCH3+H	0.00485363	0.993685	0.00520461	0.993229
PAH7+H	0.00482414	0.998509	0.00517298	0.998402
rad39	0.00111871	0.999628	0.00119961	0.999601
rad19anti	0.000152570	0.999780	0.000163603	0.999765
PAH9+H	8.58062e-05	0.999866	9.20114e-05	0.999857
rad30	3.45816e-05	0.999901	3.70823e-05	0.999894
rad38	3.22632e-05	0.999933	3.45962e-05	0.999928
rad19syn	2.05726e-05	0.999953	2.20602e-05	0.999951
rad35	1.85020e-05	0.999972	1.98400e-05	0.999970
rad37	8.30353e-06	0.999980	8.90392e-06	0.999979
rad54	5.61021e-06	0.999986	6.01591e-06	0.999985
rad46	5.06258e-06	0.999991	5.42867e-06	0.999991
PhcycC3H3_A+H	2.75303e-06	0.999994	2.95211e-06	0.999994
PAH3+H	1.70032e-06	0.999995	1.82328e-06	0.999995
rad60syn	6.35566e-07	0.999996	6.81526e-07	0.999996
PAH10+CH3	5.91925e-07	0.999997	6.34728e-07	0.999997
PAH1+H	5.27746e-07	0.999997	5.65909e-07	0.999997
rad50	5.26262e-07	0.999998	5.64318e-07	0.999998
rad70	4.68169e-07	0.999998	5.02024e-07	0.999998
rad60anti	3.53464e-07	0.999998	3.79023e-07	0.999999
rad67	2.86642e-07	0.999999	3.07370e-07	0.999999
rad59	2.38375e-07	0.999999	2.55613e-07	0.999999
rad55	2.28529e-07	0.999999	2.45054e-07	1.000000
rad62	1.23575e-07	0.999999	1.32511e-07	1.000000
rad34	5.38118e-08	0.999999	5.77031e-08	1.000000
rad43	3.25357e-08	0.999999	3.48885e-08	1.000000
rad51	2.95271e-08	0.999999	3.16622e-08	1.000000
rad52	1.99046e-08	0.999999	2.13439e-08	1.000000
rad6	1.73891e-08	0.999999	1.86465e-08	1.000000
rad53	7.16537e-09	0.999999	7.68353e-09	1.000000
rad64	2.79841e-09	0.999999	3.00077e-09	1.000000
rad56	2.33180e-09	0.999999	2.50041e-09	1.000000
rad23	2.32164e-09	0.999999	2.48953e-09	1.000000
rad58	2.16904e-09	0.999999	2.32589e-09	1.000000
rad42	1.71813e-09	0.999999	1.84238e-09	1.000000
rad2	1.42654e-09	0.999999	1.52970e-09	1.000000
rad65	9.40930e-10	0.999999	1.00897e-09	1.000000
rad45	5.67917e-10	0.999999	6.08985e-10	1.000000
rad1	2.81029e-10	0.999999	3.01351e-10	1.000000
rad68syn	2.64064e-10	0.999999	2.83160e-10	1.000000
rad41	2.24813e-10	0.999999	2.41070e-10	1.000000
rad68anti	1.78172e-10	0.999999	1.91056e-10	1.000000
rad9	1.32371e-10	0.999999	1.41943e-10	1.000000
PAH8+H	1.02639e-10	0.999999	1.10061e-10	1.000000
rad36	5.36461e-11	0.999999	5.75255e-11	1.000000

rad3	4.28015e-11	0.999999	4.58966e-11	1.000000
rad10	3.61365e-11	0.999999	3.87496e-11	1.000000
rad4	3.16452e-11	0.999999	3.39336e-11	1.000000
rad40syn	2.86672e-11	0.999999	3.07402e-11	1.000000
rad61	2.66845e-11	0.999999	2.86141e-11	1.000000
rad28	1.90238e-11	0.999999	2.03995e-11	1.000000
rad73	1.21048e-11	0.999999	1.29802e-11	1.000000
rad40anti	1.19950e-11	0.999999	1.28623e-11	1.000000
rad71	6.89421e-12	0.999999	7.39274e-12	1.000000
rad26	6.14766e-12	0.999999	6.59222e-12	1.000000
rad13	5.07596e-12	0.999999	5.44302e-12	1.000000
rad11	4.88562e-12	0.999999	5.23891e-12	1.000000
rad7	4.31993e-12	0.999999	4.63232e-12	1.000000
rad21	3.80620e-12	0.999999	4.08143e-12	1.000000
rad20	1.65173e-12	0.999999	1.77117e-12	1.000000
rad33	1.26858e-12	0.999999	1.36032e-12	1.000000
rad22	2.40759e-13	0.999999	2.58169e-13	1.000000
rad24	1.88190e-13	0.999999	2.01799e-13	1.000000
rad72	9.22510e-14	0.999999	9.89224e-14	1.000000
rad25	5.52989e-14	0.999999	5.92977e-14	1.000000
rad12	5.35785e-14	0.999999	5.74529e-14	1.000000
rad15	3.10566e-14	0.999999	3.33024e-14	1.000000
rad27	1.35667e-14	0.999999	1.45478e-14	1.000000
rad14	1.06653e-14	0.999999	1.14364e-14	1.000000
rad31	4.19969e-15	0.999999	4.50338e-15	1.000000
rad18	3.45953e-16	0.999999	3.70970e-16	1.000000
rad8	1.12164e-18	0.999999	1.20274e-18	1.000000
rad47	2.06311e-19	0.999999	2.21230e-19	1.000000
rad5	2.69453e-20	0.999999	2.88939e-20	1.000000

0.100000000E-02 Pa, 1000.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	7.98668e-13	(1.00)	7.19594e-13	(1.00)
Formation of rad11	2.67704e-13	(0.335)	2.29546e-13	(0.319)
Formation of rad6	2.87049e-13	(0.359)	2.46133e-13	(0.342)
H-abstraction	2.43915e-13	(0.305)	2.43915e-13	(0.339)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.305402	0.305402	0.338962	0.338962
Indene+H	0.272125	0.577527	0.302027	0.640989
C2H2+PhCH2	0.159453	0.736980	0.176975	0.817964
Phenyl+Allene	0.0990073	0.835987	0.000000	0.817964
PhCCH+CH3	0.0616204	0.897608	0.0683917	0.886356
PhCHCCH2+H	0.0537595	0.951367	0.0596670	0.946023
PhCH2CCH+H	0.0288969	0.980264	0.0320723	0.978095
Ph+MeAc	0.00817632	0.988441	0.00907480	0.987170
PAH7+H	0.00601184	0.994452	0.00667246	0.993842
PhCCCH3+H	0.00364277	0.998095	0.00404306	0.997885
rad39	0.00134896	0.999444	0.00149719	0.999382
rad19anti	0.000230025	0.999674	0.000255302	0.999638
PAH9+H	0.000123695	0.999798	0.000137288	0.999775
rad38	4.77796e-05	0.999846	5.30300e-05	0.999828
rad19syn	4.20371e-05	0.999888	4.66565e-05	0.999875
rad30	3.74825e-05	0.999925	4.16014e-05	0.999916
rad35	2.54629e-05	0.999951	2.82609e-05	0.999945
rad54	1.25292e-05	0.999963	1.39061e-05	0.999958
rad37	9.28205e-06	0.999972	1.03021e-05	0.999969
rad46	8.48875e-06	0.999981	9.42158e-06	0.999978
PhcycC3H3_A+H	7.44283e-06	0.999988	8.26073e-06	0.999986
PAH3+H	3.05843e-06	0.999991	3.39451e-06	0.999990
PAH1+H	1.42912e-06	0.999993	1.58616e-06	0.999991
rad50	1.24682e-06	0.999994	1.38383e-06	0.999993
PAH10+CH3	1.21324e-06	0.999995	1.34656e-06	0.999994
rad70	1.14131e-06	0.999996	1.26673e-06	0.999995
rad60syn	8.97094e-07	0.999997	9.95669e-07	0.999996
rad67	7.32857e-07	0.999998	8.13381e-07	0.999997
rad55	5.71763e-07	0.999999	6.34592e-07	0.999998
rad60anti	5.08253e-07	0.999999	5.64103e-07	0.999998
rad59	4.08645e-07	1.000000	4.53550e-07	0.999999
rad62	2.36337e-07	1.000000	2.62307e-07	0.999999
rad34	1.49947e-07	1.000000	1.66424e-07	0.999999
rad51	9.26247e-08	1.000000	1.02803e-07	0.999999
rad52	5.46269e-08	1.000000	6.06296e-08	0.999999
rad43	4.82851e-08	1.000000	5.35910e-08	1.000000
rad53	2.66803e-08	1.000000	2.96121e-08	1.000000
rad56	1.08965e-08	1.000000	1.20939e-08	1.000000
rad64	9.68714e-09	1.000000	1.07517e-08	1.000000

rad58	5.61427e-09	1.00000	6.23120e-09	1.000000
rad6	5.06263e-09	1.00000	5.61895e-09	1.000000
rad42	4.47914e-09	1.00000	4.97134e-09	1.000000
rad65	2.94048e-09	1.00000	3.26360e-09	1.000000
rad68syn	1.19348e-09	1.00000	1.32462e-09	1.000000
rad23	1.10760e-09	1.00000	1.22931e-09	1.000000
rad68anti	8.00260e-10	1.00000	8.88198e-10	1.000000
PAH8+H	6.70114e-10	1.00000	7.43748e-10	1.000000
rad41	4.94100e-10	1.00000	5.48395e-10	1.000000
rad2	3.37711e-10	1.00000	3.74821e-10	1.000000
rad45	3.05419e-10	1.00000	3.38980e-10	1.000000
rad9	1.66360e-10	1.00000	1.84641e-10	1.000000
rad40syn	1.60988e-10	1.00000	1.78679e-10	1.000000
rad61	1.14033e-10	1.00000	1.26563e-10	1.000000
rad1	7.32488e-11	1.00000	8.12978e-11	1.000000
rad40anti	7.14957e-11	1.00000	7.93517e-11	1.000000
rad73	7.10470e-11	1.00000	7.88539e-11	1.000000
rad71	3.83780e-11	1.00000	4.25953e-11	1.000000
rad36	2.90579e-11	1.00000	3.22509e-11	1.000000
rad13	2.42414e-11	1.00000	2.69053e-11	1.000000
rad11	1.66914e-11	1.00000	1.85255e-11	1.000000
rad3	1.40972e-11	1.00000	1.56463e-11	1.000000
rad4	1.08046e-11	1.00000	1.19919e-11	1.000000
rad10	1.05514e-11	1.00000	1.17109e-11	1.000000
rad21	9.56295e-12	1.00000	1.06138e-11	1.000000
rad28	6.04252e-12	1.00000	6.70650e-12	1.000000
rad20	4.65138e-12	1.00000	5.16250e-12	1.000000
rad7	4.20089e-12	1.00000	4.66251e-12	1.000000
rad33	2.70160e-12	1.00000	2.99846e-12	1.000000
rad26	1.72460e-12	1.00000	1.91411e-12	1.000000
rad24	2.48803e-13	1.00000	2.76143e-13	1.000000
rad72	1.79042e-13	1.00000	1.98717e-13	1.000000
rad25	1.49364e-13	1.00000	1.65778e-13	1.000000
rad22	1.27460e-13	1.00000	1.41467e-13	1.000000
rad12	9.30108e-14	1.00000	1.03232e-13	1.000000
rad15	4.00566e-14	1.00000	4.44583e-14	1.000000
rad14	1.89929e-14	1.00000	2.10800e-14	1.000000
rad27	1.86797e-14	1.00000	2.07323e-14	1.000000
rad18	4.60745e-15	1.00000	5.11375e-15	1.000000
rad31	2.32690e-15	1.00000	2.58259e-15	1.000000
rad8	3.75827e-17	1.00000	4.17125e-17	1.000000
rad47	6.63020e-19	1.00000	7.35875e-19	1.000000
rad5	4.38869e-20	1.00000	4.87095e-20	1.000000

0.100000000E-02 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22919e-12 (1.00)	1.06688e-12 (1.00)
Formation of rad11	3.87976e-13 (0.316)	3.11712e-13 (0.292)
Formation of rad6	4.37724e-13 (0.356)	3.51681e-13 (0.330)
H-abstraction	4.03491e-13 (0.328)	4.03491e-13 (0.378)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.328257	0.328257	0.378196	0.378196
Indene+H	0.214714	0.542971	0.247379	0.625574
C2H2+PhCH2	0.146502	0.689473	0.168789	0.794364
Phenyl+Allene	0.132044	0.821517	0.000000	0.794364
PhCHCCH2+H	0.0609574	0.882474	0.0702309	0.864595
PhCCH+CH3	0.0572445	0.939719	0.0659535	0.930548
PhCH2CCH+H	0.0407440	0.980463	0.0469425	0.977491
Ph+MeAc	0.00763489	0.988097	0.00879642	0.986287
PAH7+H	0.00694716	0.995045	0.00800405	0.994291
PhCCCH3+H	0.00267733	0.997722	0.00308464	0.997376
rad39	0.00150224	0.999224	0.00173078	0.999107
rad19anti	0.000315220	0.999539	0.000363175	0.999470
PAH9+H	0.000164386	0.999704	0.000189394	0.999659
rad19syn	7.45655e-05	0.999778	8.59091e-05	0.999745
rad38	6.50361e-05	0.999843	7.49299e-05	0.999820
rad30	3.82332e-05	0.999882	4.40497e-05	0.999864
rad35	3.25606e-05	0.999914	3.75141e-05	0.999902
rad54	2.39077e-05	0.999938	2.75448e-05	0.999929
PhcycC3H3_A+H	1.67306e-05	0.999955	1.92759e-05	0.999948
rad46	1.28372e-05	0.999968	1.47902e-05	0.999963
rad37	1.03715e-05	0.999978	1.19494e-05	0.999975
PAH3+H	4.83975e-06	0.999983	5.57603e-06	0.999981
PAH1+H	3.16887e-06	0.999986	3.65096e-06	0.999984
rad50	2.53507e-06	0.999989	2.92074e-06	0.999987
rad70	2.31279e-06	0.999991	2.66464e-06	0.999990

PAH10+CH3	2.25115e-06	0.999993	2.59362e-06	0.999993
rad67	1.57912e-06	0.999995	1.81936e-06	0.999994
rad55	1.19782e-06	0.999996	1.38006e-06	0.999996
rad60syn	1.15117e-06	0.999997	1.32630e-06	0.999997
rad60anti	6.62627e-07	0.999998	7.63433e-07	0.999998
rad59	6.18406e-07	0.999998	7.12488e-07	0.999999
rad62	3.93252e-07	0.999999	4.53078e-07	0.999999
rad34	3.40145e-07	0.999999	3.91892e-07	0.999999
rad51	2.38393e-07	0.999999	2.74660e-07	1.000000
rad52	1.25457e-07	0.999999	1.44543e-07	1.000000
rad53	7.80404e-08	1.000000	8.99129e-08	1.000000
rad43	6.37339e-08	1.000000	7.34301e-08	1.000000
rad56	3.84098e-08	1.000000	4.42533e-08	1.000000
rad64	2.61428e-08	1.000000	3.01200e-08	1.000000
rad58	1.20348e-08	1.000000	1.38657e-08	1.000000
rad42	9.67464e-09	1.000000	1.11465e-08	1.000000
rad65	7.50531e-09	1.000000	8.64712e-09	1.000000
rad68syn	4.04355e-09	1.000000	4.65870e-09	1.000000
PAH8+H	3.08739e-09	1.000000	3.55708e-09	1.000000
rad68anti	2.69715e-09	1.000000	3.10748e-09	1.000000
rad6	2.24994e-09	1.000000	2.59223e-09	1.000000
rad41	9.10279e-10	1.000000	1.04876e-09	1.000000
rad40syn	6.53840e-10	1.000000	7.53310e-10	1.000000
rad23	5.52087e-10	1.000000	6.36075e-10	1.000000
rad61	3.79392e-10	1.000000	4.37110e-10	1.000000
rad73	3.38559e-10	1.000000	3.90065e-10	1.000000
rad40anti	3.05541e-10	1.000000	3.52024e-10	1.000000
rad71	2.12093e-10	1.000000	2.44359e-10	1.000000
rad45	1.64687e-10	1.000000	1.89742e-10	1.000000
rad9	1.35988e-10	1.000000	1.56677e-10	1.000000
rad2	9.06094e-11	1.000000	1.04394e-10	1.000000
rad11	6.28503e-11	1.000000	7.24116e-11	1.000000
rad13	5.56028e-11	1.000000	6.40620e-11	1.000000
rad1	2.09318e-11	1.000000	2.41162e-11	1.000000
rad36	1.57653e-11	1.000000	1.81638e-11	1.000000
rad7	1.42850e-11	1.000000	1.64582e-11	1.000000
rad21	1.12708e-11	1.000000	1.29855e-11	1.000000
rad20	5.72596e-12	1.000000	6.59703e-12	1.000000
rad3	5.20537e-12	1.000000	5.99728e-12	1.000000
rad10	4.70163e-12	1.000000	5.41690e-12	1.000000
rad4	4.07031e-12	1.000000	4.68954e-12	1.000000
rad33	2.98604e-12	1.000000	3.44031e-12	1.000000
rad28	2.79810e-12	1.000000	3.22378e-12	1.000000
rad72	1.14993e-12	1.000000	1.32487e-12	1.000000
rad26	7.11947e-13	1.000000	8.20259e-13	1.000000
rad25	2.72816e-13	1.000000	3.14320e-13	1.000000
rad24	2.16988e-13	1.000000	2.49999e-13	1.000000
rad12	1.06576e-13	1.000000	1.22790e-13	1.000000
rad22	7.10106e-14	1.000000	8.18133e-14	1.000000
rad18	3.97438e-14	1.000000	4.57901e-14	1.000000
rad15	3.80215e-14	1.000000	4.38058e-14	1.000000
rad14	2.59299e-14	1.000000	2.98748e-14	1.000000
rad27	1.67050e-14	1.000000	1.92463e-14	1.000000
rad31	1.37109e-15	1.000000	1.57968e-15	1.000000
rad8	2.31129e-16	1.000000	2.66291e-16	1.000000
rad47	1.74378e-18	1.000000	2.00907e-18	1.000000
rad5	1.03663e-19	1.000000	1.19434e-19	1.000000

0.100000000E-02 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.50733e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.03336e-13 (0.268)
Formation of rad6	6.34764e-13 (0.352)	4.75183e-13 (0.315)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.417)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.417171	0.417171
Indene+H	0.168224	0.517107	0.201151	0.618322
Phenyl+Allene	0.163693	0.680800	0.000000	0.618322
C2H2+PhCH2	0.129445	0.810245	0.154782	0.773104
PhCHCCH2+H	0.0661470	0.876392	0.0790946	0.852199
PhCH2CCH+H	0.0526489	0.929041	0.0629537	0.915152
PhCCH+CH3	0.0518208	0.980862	0.0619641	0.977116
PAH7+H	0.00758538	0.988447	0.00907010	0.986186
Ph+MeAc	0.00700420	0.995451	0.00837514	0.994562
PhCCCH3+H	0.00195097	0.997402	0.00233284	0.996894
rad39	0.00157581	0.998978	0.00188425	0.998779

rad19anti	0.000399579	0.999378	0.000477791	0.999257
PAH9+H	0.000204702	0.999582	0.000244769	0.999501
rad19syn	0.000118863	0.999701	0.000142129	0.999643
rad38	8.27680e-05	0.999784	9.89685e-05	0.999742
rad54	4.05005e-05	0.999824	4.84277e-05	0.999791
rad35	3.92969e-05	0.999864	4.69886e-05	0.999838
rad30	3.73116e-05	0.999901	4.46148e-05	0.999882
PhcycC3H3_A+H	3.27086e-05	0.999934	3.91108e-05	0.999922
rad46	1.78869e-05	0.999952	2.13880e-05	0.999943
rad37	1.16239e-05	0.999963	1.38991e-05	0.999957
PAH3+H	6.95966e-06	0.999970	8.32193e-06	0.999965
PAH1+H	6.04572e-06	0.999976	7.22906e-06	0.999972
rad50	4.57125e-06	0.999981	5.46599e-06	0.999978
rad70	4.07150e-06	0.999985	4.86843e-06	0.999983
PAH10+CH3	3.83957e-06	0.999989	4.59110e-06	0.999987
rad67	2.96797e-06	0.999992	3.54889e-06	0.999991
rad55	2.19501e-06	0.999994	2.62464e-06	0.999993
rad60syn	1.37645e-06	0.999995	1.64587e-06	0.999995
rad59	8.52866e-07	0.999996	1.01981e-06	0.999996
rad60anti	8.03342e-07	0.999997	9.60578e-07	0.999997
rad34	6.59901e-07	0.999998	7.89063e-07	0.999998
rad62	5.91358e-07	0.999998	7.07106e-07	0.999999
rad51	5.25719e-07	0.999999	6.28622e-07	0.999999
rad52	2.50707e-07	0.999999	2.99779e-07	0.999999
rad53	1.90238e-07	0.999999	2.27474e-07	1.000000
rad56	1.09448e-07	0.999999	1.30871e-07	1.000000
rad43	7.76164e-08	0.999999	9.28086e-08	1.000000
rad64	5.85550e-08	0.999999	7.00164e-08	1.000000
rad58	2.24147e-08	0.999999	2.68020e-08	1.000000
rad42	1.82035e-08	0.999999	2.17665e-08	1.000000
rad65	1.63706e-08	0.999999	1.95748e-08	1.000000
rad68syn	1.10175e-08	0.999999	1.31740e-08	1.000000
PAH8+H	1.09227e-08	0.999999	1.30606e-08	1.000000
rad68anti	7.31621e-09	0.999999	8.74827e-09	1.000000
rad40syn	2.07794e-09	0.999999	2.48466e-09	1.000000
rad6	1.50500e-09	0.999999	1.79958e-09	1.000000
rad41	1.48025e-09	0.999999	1.76998e-09	1.000000
rad73	1.26688e-09	0.999999	1.51485e-09	1.000000
rad61	1.03672e-09	0.999999	1.23964e-09	1.000000
rad40anti	1.01429e-09	0.999999	1.21282e-09	1.000000
rad71	9.18055e-10	0.999999	1.09775e-09	1.000000
rad23	2.85014e-10	0.999999	3.40801e-10	1.000000
rad11	1.53395e-10	0.999999	1.83419e-10	1.000000
rad9	9.80647e-11	0.999999	1.17259e-10	1.000000
rad45	8.94303e-11	0.999999	1.06935e-10	1.000000
rad13	6.46990e-11	0.999999	7.73630e-11	1.000000
rad7	5.08626e-11	0.999999	6.08182e-11	1.000000
rad2	2.67645e-11	0.999999	3.20031e-11	1.000000
rad21	8.79060e-12	0.999999	1.05112e-11	1.000000
rad36	8.62593e-12	0.999999	1.03143e-11	1.000000
rad72	7.10733e-12	0.999999	8.49847e-12	1.000000
rad1	6.40838e-12	0.999999	7.66269e-12	1.000000
rad20	4.28327e-12	0.999999	5.12165e-12	1.000000
rad10	3.46049e-12	0.999999	4.13781e-12	1.000000
rad33	2.25869e-12	0.999999	2.70079e-12	1.000000
rad3	2.08051e-12	0.999999	2.48774e-12	1.000000
rad28	1.92049e-12	0.999999	2.29639e-12	1.000000
rad4	1.64615e-12	0.999999	1.96835e-12	1.000000
rad26	4.26057e-13	0.999999	5.09450e-13	1.000000
rad25	3.12060e-13	0.999999	3.73141e-13	1.000000
rad24	1.65803e-13	0.999999	1.98256e-13	1.000000
rad18	1.63487e-13	0.999999	1.95486e-13	1.000000
rad12	1.03520e-13	0.999999	1.23782e-13	1.000000
rad22	4.07715e-14	0.999999	4.87518e-14	1.000000
rad15	3.78681e-14	0.999999	4.52801e-14	1.000000
rad14	2.44097e-14	0.999999	2.91874e-14	1.000000
rad27	1.01019e-14	0.999999	1.20792e-14	1.000000
rad31	8.42044e-16	0.999999	1.00685e-15	1.000000
rad8	5.36819e-16	0.999999	6.41893e-16	1.000000
rad47	3.89994e-18	0.999999	4.66328e-18	1.000000
rad5	3.26518e-19	0.999999	3.90428e-19	1.000000

0.100000000E-02 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.54148e-12 (1.00)	2.05338e-12 (1.00)
Formation of rad11	7.22991e-13 (0.284)	5.03422e-13 (0.245)
Formation of rad6	8.84215e-13 (0.348)	6.15682e-13 (0.300)
H-abstraction	9.34273e-13 (0.368)	9.34273e-13 (0.455)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.367610	0.367610	0.454993	0.454993
Phenyl+Allene	0.192054	0.559664	0.00000	0.454993
Indene+H	0.131421	0.691086	0.162661	0.617654
C2H2+PhCH2	0.111295	0.802381	0.137750	0.755405
PhCHCCH2+H	0.0692296	0.871610	0.0856859	0.841091
PhCH2CCH+H	0.0636260	0.935236	0.0787507	0.919842
PhCCH+CH3	0.0461559	0.981392	0.0571276	0.976969
PAH7+H	0.00794566	0.989338	0.00983443	0.986804
Ph+MeAc	0.00637082	0.995709	0.00788521	0.994689
rad39	0.00158196	0.997291	0.00195800	0.996647
PhCCCH3+H	0.00142376	0.998714	0.00176219	0.998409
rad19anti	0.000475489	0.999190	0.000588514	0.998997
PAH9+H	0.000242131	0.999432	0.000299688	0.999297
rad19syn	0.000174660	0.999607	0.000216178	0.999513
rad38	9.98860e-05	0.999707	0.000123629	0.999637
rad54	6.26274e-05	0.999769	7.75141e-05	0.999714
PhcycC3H3_A+H	5.74351e-05	0.999827	7.10879e-05	0.999786
rad35	4.53516e-05	0.999872	5.61319e-05	0.999842
rad30	3.53184e-05	0.999907	4.37139e-05	0.999885
rad46	2.33611e-05	0.999931	2.89142e-05	0.999914
rad37	1.29873e-05	0.999944	1.60744e-05	0.999930
PAH1+H	1.02825e-05	0.999954	1.27267e-05	0.999943
PAH3+H	9.32004e-06	0.999963	1.15354e-05	0.999955
rad50	7.49585e-06	0.999971	9.27765e-06	0.999964
rad70	6.43021e-06	0.999977	7.95868e-06	0.999972
PAH10+CH3	6.07786e-06	0.999983	7.52262e-06	0.999979
rad67	4.99567e-06	0.999988	6.18315e-06	0.999986
rad55	3.63003e-06	0.999992	4.49291e-06	0.999990
rad60syn	1.56340e-06	0.999993	1.93503e-06	0.999992
rad34	1.13462e-06	0.999995	1.40432e-06	0.999993
rad59	1.09806e-06	0.999996	1.35907e-06	0.999995
rad51	1.02621e-06	0.999997	1.27015e-06	0.999996
rad60anti	9.23688e-07	0.999998	1.14325e-06	0.999997
rad62	8.25901e-07	0.999998	1.02222e-06	0.999998
rad52	4.48901e-07	0.999999	5.55607e-07	0.999999
rad53	4.02868e-07	0.999999	4.98632e-07	0.999999
rad56	2.64598e-07	1.000000	3.27496e-07	1.000000
rad64	1.13755e-07	1.000000	1.40795e-07	1.000000
rad43	8.95932e-08	1.000000	1.10890e-07	1.000000
rad58	3.75497e-08	1.000000	4.64756e-08	1.000000
rad65	3.15602e-08	1.000000	3.90624e-08	1.000000
PAH8+H	3.15023e-08	1.000000	3.89905e-08	1.000000
rad42	3.09037e-08	1.000000	3.82497e-08	1.000000
rad68syn	2.53721e-08	1.000000	3.14033e-08	1.000000
rad68anti	1.67834e-08	1.000000	2.07729e-08	1.000000
rad40syn	5.46373e-09	1.000000	6.76250e-09	1.000000
rad73	3.88993e-09	1.000000	4.81459e-09	1.000000
rad71	3.20270e-09	1.000000	3.96400e-09	1.000000
rad40anti	2.76933e-09	1.000000	3.42762e-09	1.000000
rad61	2.41929e-09	1.000000	2.99437e-09	1.000000
rad41	2.20456e-09	1.000000	2.72860e-09	1.000000
rad6	1.35338e-09	1.000000	1.67508e-09	1.000000
rad11	2.15660e-10	1.000000	2.66923e-10	1.000000
rad23	1.52503e-10	1.000000	1.88754e-10	1.000000
rad7	1.12603e-10	1.000000	1.39370e-10	1.000000
rad9	6.67216e-11	1.000000	8.25816e-11	1.000000
rad13	4.92107e-11	1.000000	6.09083e-11	1.000000
rad45	4.91210e-11	1.000000	6.07971e-11	1.000000
rad72	3.39722e-11	1.000000	4.20476e-11	1.000000
rad2	8.50704e-12	1.000000	1.05292e-11	1.000000
rad21	5.91338e-12	1.000000	7.31900e-12	1.000000
rad36	4.77989e-12	1.000000	5.91610e-12	1.000000
rad10	2.82152e-12	1.000000	3.49222e-12	1.000000
rad20	2.63334e-12	1.000000	3.25930e-12	1.000000
rad1	2.08369e-12	1.000000	2.57899e-12	1.000000
rad28	1.89168e-12	1.000000	2.34135e-12	1.000000
rad33	1.50411e-12	1.000000	1.86165e-12	1.000000
rad3	8.84360e-13	1.000000	1.09458e-12	1.000000
rad4	7.05494e-13	1.000000	8.73193e-13	1.000000
rad26	3.37797e-13	1.000000	4.18094e-13	1.000000
rad18	3.07631e-13	1.000000	3.80757e-13	1.000000
rad25	2.61842e-13	1.000000	3.24084e-13	1.000000
rad24	1.21061e-13	1.000000	1.49838e-13	1.000000
rad12	9.25054e-14	1.000000	1.14495e-13	1.000000
rad15	7.62087e-14	1.000000	9.43237e-14	1.000000
rad22	2.68290e-14	1.000000	3.32065e-14	1.000000
rad14	1.73657e-14	1.000000	2.14936e-14	1.000000

rad27	4.96384e-15	1.00000	6.14380e-15	1.00000
rad8	7.86598e-16	1.00000	9.73573e-16	1.00000
rad31	5.35123e-16	1.00000	6.62325e-16	1.00000
rad47	7.66893e-18	1.00000	9.49189e-18	1.00000
rad5	1.17842e-18	1.00000	1.45854e-18	1.00000

0.100000000E-02 Pa, 1400.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.47024e-12	(1.00)	2.71984e-12	(1.00)
Formation of rad11	9.43269e-13	(0.272)	6.11768e-13	(0.225)
Formation of rad6	1.19194e-12	(0.343)	7.73043e-13	(0.284)
H-abstraction	1.33503e-12	(0.385)	1.33503e-12	(0.491)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.490849	0.490849
Phenyl+Allene	0.216237	0.600946	0.00000	0.490849
Indene+H	0.102753	0.703699	0.131102	0.621951
C2H2+PhCH2	0.0940337	0.797733	0.119977	0.741928
PhCH2CCH+H	0.0730480	0.870781	0.0932017	0.835129
PhCHCCH2+H	0.0704361	0.941217	0.0898693	0.924998
PhCCH+CH3	0.0407709	0.981988	0.0520195	0.977018
PAH7+H	0.00808062	0.990068	0.0103100	0.987328
Ph+MeAc	0.00578254	0.995851	0.00737791	0.994706
rad39	0.00153900	0.997390	0.00196361	0.996669
PhCCCH3+H	0.00104907	0.998439	0.00133851	0.998008
rad19anti	0.000537563	0.998977	0.000685873	0.998694
PAH9+H	0.000275092	0.999252	0.000350989	0.999045
rad19syn	0.000241019	0.999493	0.000307516	0.999352
rad38	0.000115616	0.999608	0.000147513	0.999500
PhcycC3H3_A+H	9.27188e-05	0.999701	0.000118299	0.999618
rad54	9.02066e-05	0.999791	0.000115094	0.999733
rad35	5.05796e-05	0.999842	6.45344e-05	0.999798
rad30	3.27889e-05	0.999875	4.18352e-05	0.999840
rad46	2.89889e-05	0.999904	3.69869e-05	0.999877
PAH1+H	1.59963e-05	0.999920	2.04097e-05	0.999897
rad37	1.43563e-05	0.999934	1.83172e-05	0.999915
PAH3+H	1.18378e-05	0.999946	1.51038e-05	0.999930
rad50	1.13924e-05	0.999957	1.45355e-05	0.999945
rad70	9.33021e-06	0.999967	1.19044e-05	0.999957
PAH10+CH3	9.00294e-06	0.999976	1.14868e-05	0.999968
rad67	7.68554e-06	0.999983	9.80595e-06	0.999978
rad55	5.54137e-06	0.999989	7.07023e-06	0.999985
rad51	1.81655e-06	0.999991	2.31772e-06	0.999988
rad34	1.77488e-06	0.999992	2.26456e-06	0.999990
rad60syn	1.71203e-06	0.999994	2.18438e-06	0.999992
rad59	1.34390e-06	0.999995	1.71468e-06	0.999994
rad62	1.09238e-06	0.999997	1.39377e-06	0.999995
rad60anti	1.02264e-06	0.999998	1.30479e-06	0.999996
rad53	7.63459e-07	0.999998	9.74098e-07	0.999997
rad52	7.36190e-07	0.999999	9.39303e-07	0.999998
rad56	5.61676e-07	1.000000	7.16641e-07	0.999999
rad64	1.97836e-07	1.000000	2.52418e-07	0.999999
rad43	1.00004e-07	1.000000	1.27595e-07	0.999999
PAH8+H	7.73009e-08	1.000000	9.86282e-08	1.000000
rad58	5.80225e-08	1.000000	7.40306e-08	1.000000
rad65	5.51355e-08	1.000000	7.03474e-08	1.000000
rad68syn	5.11875e-08	1.000000	6.53098e-08	1.000000
rad42	4.85214e-08	1.000000	6.19082e-08	1.000000
rad68anti	3.37456e-08	1.000000	4.30559e-08	1.000000
rad40syn	1.23711e-08	1.000000	1.57842e-08	1.000000
rad73	1.01770e-08	1.000000	1.29848e-08	1.000000
rad71	9.36227e-09	1.000000	1.19453e-08	1.000000
rad40anti	6.47926e-09	1.000000	8.26688e-09	1.000000
rad61	4.96371e-09	1.000000	6.33318e-09	1.000000
rad41	3.08784e-09	1.000000	3.93976e-09	1.000000
rad6	1.52075e-09	1.000000	1.94031e-09	1.000000
rad11	1.94011e-10	1.000000	2.47538e-10	1.000000
rad7	1.45429e-10	1.000000	1.85553e-10	1.000000
rad72	1.29430e-10	1.000000	1.65140e-10	1.000000
rad23	8.45139e-11	1.000000	1.07831e-10	1.000000
rad9	4.39143e-11	1.000000	5.60301e-11	1.000000
rad13	3.13912e-11	1.000000	4.00520e-11	1.000000
rad45	2.73878e-11	1.000000	3.49440e-11	1.000000
rad21	3.81063e-12	1.000000	4.86198e-12	1.000000
rad2	2.88556e-12	1.000000	3.68167e-12	1.000000
rad36	2.69035e-12	1.000000	3.43261e-12	1.000000
rad28	2.46404e-12	1.000000	3.14386e-12	1.000000

rad10	1.82921e-12	1.00000	2.33388e-12	1.000000
rad20	1.53045e-12	1.00000	1.95269e-12	1.000000
rad33	9.75790e-13	1.00000	1.24501e-12	1.000000
rad1	7.18494e-13	1.00000	9.16727e-13	1.000000
rad3	3.96674e-13	1.00000	5.06115e-13	1.000000
rad4	3.18465e-13	1.00000	4.06328e-13	1.000000
rad18	3.17634e-13	1.00000	4.05268e-13	1.000000
rad26	3.08701e-13	1.00000	3.93870e-13	1.000000
rad25	1.93943e-13	1.00000	2.47451e-13	1.000000
rad15	1.91016e-13	1.00000	2.43716e-13	1.000000
rad24	8.67714e-14	1.00000	1.10711e-13	1.000000
rad12	7.86883e-14	1.00000	1.00398e-13	1.000000
rad22	4.15764e-14	1.00000	5.30469e-14	1.000000
rad14	1.10843e-14	1.00000	1.41424e-14	1.000000
rad27	2.35743e-15	1.00000	3.00784e-15	1.000000
rad8	9.26462e-16	1.00000	1.18207e-15	1.000000
rad31	3.51110e-16	1.00000	4.47980e-16	1.000000
rad47	1.36054e-17	1.00000	1.73591e-17	1.000000
rad5	4.07350e-18	1.00000	5.19736e-18	1.000000

0.100000000E-02 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.61271e-12 (1.00)	3.52361e-12 (1.00)
Formation of rad11	1.20217e-12 (0.261)	7.28782e-13 (0.207)
Formation of rad6	1.56360e-12 (0.339)	9.47887e-13 (0.269)
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.524)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.524162	0.524162
Phenyl+Allene	0.236109	0.636511	0.000000	0.524162
Indene+H	0.0806435	0.717155	0.105570	0.629731
PhCH2CCH+H	0.0806387	0.797793	0.105563	0.735294
C2H2+PhCH2	0.0787062	0.876500	0.103033	0.838328
PhCHCCH2+H	0.0701571	0.946657	0.0918421	0.930170
PhCCH+CH3	0.0359368	0.982594	0.0470444	0.977214
PAH7+H	0.00805110	0.990645	0.0105396	0.987754
Ph+MeAc	0.00526035	0.995905	0.00688624	0.994640
rad39	0.00146497	0.997370	0.00191777	0.996558
PhCCCH3+H	0.000785539	0.998156	0.00102834	0.997586
rad19anti	0.000582991	0.998739	0.000763188	0.998349
rad19syn	0.000316567	0.999055	0.000414413	0.998764
PAH9+H	0.000302845	0.999358	0.000396450	0.999160
PhcycC3H3_A+H	0.000139913	0.999498	0.000183158	0.999343
rad38	0.000129499	0.999627	0.000169526	0.999513
rad54	0.000122808	0.999750	0.000160767	0.999674
rad35	5.49599e-05	0.999805	7.19472e-05	0.999746
rad46	3.45380e-05	0.999840	4.52132e-05	0.999791
rad30	3.01156e-05	0.999870	3.94239e-05	0.999830
PAH1+H	2.31901e-05	0.999893	3.03579e-05	0.999861
rad50	1.62766e-05	0.999909	2.13074e-05	0.999882
rad37	1.56192e-05	0.999925	2.04470e-05	0.999902
PAH3+H	1.44553e-05	0.999939	1.89232e-05	0.999921
rad70	1.26613e-05	0.999952	1.65747e-05	0.999938
PAH10+CH3	1.25752e-05	0.999965	1.64620e-05	0.999954
rad67	1.09793e-05	0.999976	1.43728e-05	0.999969
rad55	7.93592e-06	0.999983	1.03888e-05	0.999979
rad51	2.96749e-06	0.999986	3.88470e-06	0.999983
rad34	2.57549e-06	0.999989	3.37154e-06	0.999986
rad60syn	1.82792e-06	0.999991	2.39290e-06	0.999989
rad59	1.58467e-06	0.999992	2.07447e-06	0.999991
rad62	1.38706e-06	0.999994	1.81579e-06	0.999993
rad53	1.32204e-06	0.999995	1.73067e-06	0.999994
rad52	1.12378e-06	0.999996	1.47114e-06	0.999996
rad60anti	1.10268e-06	0.999997	1.44350e-06	0.999997
rad56	1.07223e-06	0.999998	1.40364e-06	0.999999
rad64	3.15087e-07	0.999999	4.12476e-07	0.999999
PAH8+H	1.66252e-07	0.999999	2.17639e-07	0.999999
rad43	1.09523e-07	0.999999	1.43375e-07	0.999999
rad68syn	9.28291e-08	0.999999	1.21521e-07	0.999999
rad65	8.88724e-08	0.999999	1.16342e-07	1.000000
rad58	8.42069e-08	0.999999	1.10234e-07	1.000000
rad42	7.16663e-08	0.999999	9.38173e-08	1.000000
rad68anti	6.10163e-08	0.999999	7.98757e-08	1.000000
rad40syn	2.48114e-08	0.999999	3.24802e-08	1.000000
rad71	2.35640e-08	0.999999	3.08474e-08	1.000000
rad73	2.32862e-08	0.999999	3.04836e-08	1.000000
rad40anti	1.33700e-08	0.999999	1.75025e-08	1.000000

rad61	9.14968e-09	0.999999	1.19777e-08	1.00000
rad41	4.14357e-09	0.999999	5.42427e-09	1.00000
rad6	1.97838e-09	0.999999	2.58988e-09	1.00000
rad72	4.05226e-10	0.999999	5.30474e-10	1.00000
rad11	1.36460e-10	0.999999	1.78638e-10	1.00000
rad7	1.26317e-10	0.999999	1.65361e-10	1.00000
rad23	4.82562e-11	0.999999	6.31718e-11	1.00000
rad9	2.84209e-11	0.999999	3.72055e-11	1.00000
rad13	1.89946e-11	0.999999	2.48656e-11	1.00000
rad45	1.55412e-11	0.999999	2.03448e-11	1.00000
rad28	3.66741e-12	0.999999	4.80097e-12	1.00000
rad21	2.42953e-12	0.999999	3.18048e-12	1.00000
rad36	1.54133e-12	0.999999	2.01774e-12	1.00000
rad2	1.04481e-12	0.999999	1.36775e-12	1.00000
rad10	9.52857e-13	0.999999	1.24737e-12	1.00000
rad20	8.79202e-13	0.999999	1.15095e-12	1.00000
rad33	6.33601e-13	0.999999	8.29439e-13	1.00000
rad15	3.04838e-13	0.999999	3.99060e-13	1.00000
rad26	2.84313e-13	0.999999	3.72191e-13	1.00000
rad1	2.63292e-13	0.999999	3.44672e-13	1.00000
rad18	2.34783e-13	0.999999	3.07352e-13	1.00000
rad3	1.87067e-13	0.999999	2.44887e-13	1.00000
rad4	1.50936e-13	0.999999	1.97589e-13	1.00000
rad22	1.48778e-13	0.999999	1.94764e-13	1.00000
rad25	1.37831e-13	0.999999	1.80433e-13	1.00000
rad12	6.49250e-14	0.999999	8.49924e-14	1.00000
rad24	6.18581e-14	0.999999	8.09777e-14	1.00000
rad14	6.99005e-15	0.999999	9.15056e-15	1.00000
rad27	1.15796e-15	0.999999	1.51586e-15	1.00000
rad8	9.76883e-16	0.999999	1.27883e-15	1.00000
rad31	2.37695e-16	0.999999	3.11164e-16	1.00000
rad47	2.21852e-17	0.999999	2.90424e-17	1.00000
rad5	1.15146e-17	0.999999	1.50737e-17	1.00000

0.100000000E-02 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.27400e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.05237e-12 (0.168)
Formation of rad6	2.80256e-12 (0.325)	1.44565e-12 (0.230)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.602)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.601845	0.601845
Phenyl+Allene	0.272047	0.710162	0.00000	0.601845
PhCH2CCH+H	0.0933387	0.803501	0.128221	0.730066
PhCHCCH2+H	0.0656327	0.869134	0.0901606	0.820227
C2H2+PhCH2	0.0475978	0.916731	0.0653858	0.885612
Indene+H	0.0395372	0.956269	0.0543127	0.939925
PhCCH+CH3	0.0276514	0.983920	0.0379853	0.977910
PAH7+H	0.00712605	0.991046	0.00978916	0.987700
Ph+MeAc	0.00488545	0.995931	0.00671122	0.994411
rad39	0.00123375	0.997165	0.00169483	0.996106
rad19anti	0.000564116	0.997729	0.000774933	0.996881
rad19syn	0.000506158	0.998235	0.000695318	0.997576
PhCCCH3+H	0.000461483	0.998697	0.000633946	0.998210
PhcycC3H3_A+H	0.000354596	0.999052	0.000487115	0.998697
PAH9+H	0.000266731	0.999318	0.000366412	0.999063
rad54	0.000215004	0.999533	0.000295354	0.999359
rad38	0.000142764	0.999676	0.000196118	0.999555
rad35	4.88397e-05	0.999725	6.70919e-05	0.999622
PAH1+H	4.24056e-05	0.999767	5.82532e-05	0.999680
rad46	3.79670e-05	0.999805	5.21559e-05	0.999732
rad50	2.38701e-05	0.999829	3.27908e-05	0.999765
rad30	2.30179e-05	0.999852	3.16201e-05	0.999797
PAH10+CH3	2.22275e-05	0.999874	3.05343e-05	0.999827
rad70	2.20506e-05	0.999896	3.02913e-05	0.999858
PAH3+H	2.08052e-05	0.999917	2.85805e-05	0.999886
rad55	1.72026e-05	0.999934	2.36314e-05	0.999910
rad67	1.69163e-05	0.999951	2.32382e-05	0.999933
rad37	1.61425e-05	0.999968	2.21752e-05	0.999955
rad51	6.11253e-06	0.999974	8.39689e-06	0.999964
rad34	5.25680e-06	0.999979	7.22134e-06	0.999971
rad53	4.39527e-06	0.999983	6.03786e-06	0.999977
rad56	3.99314e-06	0.999987	5.48546e-06	0.999982
rad62	2.35598e-06	0.999990	3.23645e-06	0.999986
rad59	2.06481e-06	0.999992	2.83647e-06	0.999988
rad52	2.03181e-06	0.999994	2.79113e-06	0.999991

rad60syn	1.94292e-06	0.999996	2.66902e-06	0.999994
rad60anti	1.30713e-06	0.999997	1.79563e-06	0.999996
rad64	7.88600e-07	0.999998	1.08332e-06	0.999997
PAH8+H	5.90480e-07	0.999998	8.11157e-07	0.999998
rad68syn	2.81742e-07	0.999999	3.87034e-07	0.999998
rad68anti	1.82569e-07	0.999999	2.50799e-07	0.999998
rad65	1.74383e-07	0.999999	2.39553e-07	0.999998
rad42	1.70585e-07	0.999999	2.34336e-07	0.999999
rad58	1.57351e-07	0.999999	2.16156e-07	0.999999
rad43	1.31435e-07	0.999999	1.80554e-07	0.999999
rad71	1.24718e-07	1.000000	1.71327e-07	0.999999
rad73	9.95981e-08	1.000000	1.36820e-07	0.999999
rad40syn	8.39457e-08	1.000000	1.15318e-07	1.000000
rad40anti	5.01024e-08	1.000000	6.88266e-08	1.000000
rad61	2.64238e-08	1.000000	3.62987e-08	1.000000
rad41	7.91859e-09	1.000000	1.08779e-08	1.000000
rad72	3.69911e-09	1.000000	5.08153e-09	1.000000
rad6	3.09150e-09	1.000000	4.24684e-09	1.000000
rad7	2.29775e-11	1.000000	3.15645e-11	1.000000
rad11	1.74172e-11	1.000000	2.39262e-11	1.000000
rad23	7.23495e-12	1.000000	9.93874e-12	1.000000
rad28	6.82393e-12	1.000000	9.37416e-12	1.000000
rad9	2.24279e-12	1.000000	3.08096e-12	1.000000
rad13	1.60866e-12	1.000000	2.20984e-12	1.000000
rad45	1.32682e-12	1.000000	1.82267e-12	1.000000
rad22	8.63376e-13	1.000000	1.18604e-12	1.000000
rad36	2.29571e-13	1.000000	3.15366e-13	1.000000
rad21	1.98013e-13	1.000000	2.72013e-13	1.000000
rad26	1.45588e-13	1.000000	1.99997e-13	1.000000
rad15	1.11972e-13	1.000000	1.53818e-13	1.000000
rad10	8.10312e-14	1.000000	1.11314e-13	1.000000
rad20	6.44634e-14	1.000000	8.85544e-14	1.000000
rad33	5.54011e-14	1.000000	7.61053e-14	1.000000
rad18	2.99810e-14	1.000000	4.11855e-14	1.000000
rad2	2.97867e-14	1.000000	4.09184e-14	1.000000
rad25	1.43077e-14	1.000000	1.96547e-14	1.000000
rad1	7.85802e-15	1.000000	1.07947e-14	1.000000
rad12	7.47122e-15	1.000000	1.02634e-14	1.000000
rad3	6.47528e-15	1.000000	8.89518e-15	1.000000
rad24	6.07027e-15	1.000000	8.33884e-15	1.000000
rad4	4.14820e-15	1.000000	5.69843e-15	1.000000
rad14	7.58562e-16	1.000000	1.04205e-15	1.000000
rad8	2.76592e-16	1.000000	3.79959e-16	1.000000
rad27	6.88697e-17	1.000000	9.46076e-17	1.000000
rad5	5.66588e-17	1.000000	7.78333e-17	1.000000
rad47	1.43457e-17	1.000000	1.97068e-17	1.000000

0.100000000E-02 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.44111e-11 (1.00)	1.02930e-11 (1.00)
Formation of rad11	3.16882e-12 (0.220)	1.47449e-12 (0.143)
Formation of rad6	4.53302e-12 (0.315)	2.10927e-12 (0.205)
H-abstraction	6.70922e-12 (0.466)	6.70922e-12 (0.652)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.651825	0.651825
Phenyl+Allene	0.285759	0.751319	0.000000	0.651825
PhCH2CCH+H	0.0971788	0.848498	0.136059	0.787884
PhCHCCH2+H	0.0592993	0.907797	0.0830241	0.870908
C2H2+PhCH2	0.0319942	0.939791	0.0447948	0.915703
Indene+H	0.0233046	0.963096	0.0326284	0.948331
PhCCH+CH3	0.0216466	0.984742	0.0303071	0.978638
PAH7+H	0.00659328	0.991336	0.00923114	0.987869
Ph+MeAc	0.00420938	0.995545	0.00589349	0.993763
rad39	0.00101472	0.996560	0.00142069	0.995183
rad19syn	0.000746783	0.997306	0.00104557	0.996229
PhcycC3H3_A+H	0.000656335	0.997963	0.000918925	0.997148
rad19anti	0.000529228	0.998492	0.000740966	0.997889
rad54	0.000330237	0.998822	0.000462359	0.998351
PhCCCH3+H	0.000291962	0.999114	0.000408772	0.998760
PAH9+H	0.000279546	0.999394	0.000391387	0.999151
rad38	0.000156414	0.999550	0.000218994	0.999370
PAH1+H	6.96990e-05	0.999620	9.75848e-05	0.999468
rad35	5.18637e-05	0.999672	7.26137e-05	0.999541
rad46	4.57412e-05	0.999717	6.40416e-05	0.999605
rad50	3.87497e-05	0.999756	5.42530e-05	0.999659
PAH10+CH3	3.34470e-05	0.999790	4.68285e-05	0.999706

rad70	3.20125e-05	0.999822	4.48203e-05	0.999751
rad55	2.86889e-05	0.999850	4.01669e-05	0.999791
PAH3+H	2.79049e-05	0.999878	3.90694e-05	0.999830
rad67	2.51584e-05	0.999903	3.52238e-05	0.999865
rad30	1.88901e-05	0.999922	2.64479e-05	0.999891
rad37	1.66057e-05	0.999939	2.32494e-05	0.999915
rad51	1.22963e-05	0.999951	1.72160e-05	0.999932
rad56	1.03249e-05	0.999961	1.44559e-05	0.999946
rad53	9.90974e-06	0.999971	1.38745e-05	0.999960
rad34	8.56178e-06	0.999980	1.19873e-05	0.999972
rad52	3.64112e-06	0.999984	5.09788e-06	0.999977
rad62	3.41505e-06	0.999987	4.78139e-06	0.999982
rad59	2.58714e-06	0.999990	3.62224e-06	0.999986
rad60syn	2.06844e-06	0.999992	2.89599e-06	0.999989
PAH8+H	1.81455e-06	0.999993	2.54053e-06	0.999991
rad64	1.47576e-06	0.999995	2.06619e-06	0.999993
rad60anti	1.42207e-06	0.999996	1.99102e-06	0.999995
rad68syn	6.53892e-07	0.999997	9.15510e-07	0.999996
rad71	4.98032e-07	0.999998	6.97287e-07	0.999997
rad68anti	4.21792e-07	0.999998	5.90544e-07	0.999997
rad73	3.38738e-07	0.999998	4.74263e-07	0.999998
rad65	3.37785e-07	0.999999	4.72930e-07	0.999998
rad42	3.12138e-07	0.999999	4.37019e-07	0.999999
rad58	2.75720e-07	0.999999	3.86032e-07	0.999999
rad40syn	2.27523e-07	0.999999	3.18551e-07	1.000000
rad43	1.62531e-07	1.000000	2.27558e-07	1.000000
rad40anti	1.42660e-07	1.000000	1.99737e-07	1.000000
rad61	5.98888e-08	1.000000	8.38493e-08	1.000000
rad72	2.09320e-08	1.000000	2.93066e-08	1.000000
rad41	1.34670e-08	1.000000	1.88550e-08	1.000000
rad6	6.17508e-10	1.000000	8.64564e-10	1.000000
rad7	5.25376e-12	1.000000	7.35573e-12	1.000000
rad11	4.12596e-12	1.000000	5.77672e-12	1.000000
rad23	3.50826e-12	1.000000	4.91188e-12	1.000000
rad28	2.07081e-12	1.000000	2.89931e-12	1.000000
rad9	7.62902e-13	1.000000	1.06813e-12	1.000000
rad13	4.89629e-13	1.000000	6.85522e-13	1.000000
rad45	4.03398e-13	1.000000	5.64793e-13	1.000000
rad22	2.67449e-13	1.000000	3.74452e-13	1.000000
rad21	7.16427e-14	1.000000	1.00306e-13	1.000000
rad36	7.14129e-14	1.000000	9.99841e-14	1.000000
rad15	3.98531e-14	1.000000	5.57979e-14	1.000000
rad26	3.20159e-14	1.000000	4.48251e-14	1.000000
rad33	2.26332e-14	1.000000	3.16884e-14	1.000000
rad20	1.89433e-14	1.000000	2.65223e-14	1.000000
rad10	1.17490e-14	1.000000	1.64495e-14	1.000000
rad18	6.66222e-15	1.000000	9.32769e-15	1.000000
rad25	5.79819e-15	1.000000	8.11799e-15	1.000000
rad12	4.14756e-15	1.000000	5.80694e-15	1.000000
rad2	3.93372e-15	1.000000	5.50754e-15	1.000000
rad24	2.85159e-15	1.000000	3.99249e-15	1.000000
rad3	1.63927e-15	1.000000	2.29512e-15	1.000000
rad1	1.07131e-15	1.000000	1.49993e-15	1.000000
rad4	1.04250e-15	1.000000	1.45960e-15	1.000000
rad14	2.92681e-16	1.000000	4.09778e-16	1.000000
rad8	2.34712e-16	1.000000	3.28617e-16	1.000000
rad5	3.78494e-17	1.000000	5.29926e-17	1.000000
rad47	2.86742e-17	1.000000	4.01464e-17	1.000000
rad27	1.89935e-17	1.000000	2.65925e-17	1.000000

0.100000000E-02 Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.23655e-11 (1.00)	1.58437e-11 (1.00)
Formation of rad11	4.62280e-12 (0.207)	1.98925e-12 (0.126)
Formation of rad6	6.82518e-12 (0.305)	2.93696e-12 (0.185)
H-abstraction	1.09175e-11 (0.488)	1.09175e-11 (0.689)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.689074	0.689074
Phenyl+Allene	0.291600	0.779740	0.000000	0.689074
PhCH2CCH+H	0.0967415	0.876482	0.136563	0.825637
PhCHCCH2+H	0.0532744	0.929756	0.0752040	0.900841
C2H2+PhCH2	0.0232642	0.953020	0.0328403	0.933682
PhCCH+CH3	0.0176492	0.970669	0.0249142	0.958596
Indene+H	0.0145378	0.985207	0.0205221	0.979118
PAH7+H	0.00604332	0.991251	0.00853097	0.987649
Ph+MeAc	0.00373478	0.994985	0.00527212	0.992921

PhcycC3H3_A+H	0.00104439	0.996030	0.00147430	0.994395
rad19syn	0.000992650	0.997022	0.00140125	0.995797
rad39	0.000833753	0.997856	0.00117695	0.996974
rad19anti	0.000463520	0.998320	0.000654319	0.997628
rad54	0.000448432	0.998768	0.000633020	0.998261
PAH9+H	0.000276004	0.999044	0.000389615	0.998651
PhCCCH3+H	0.000209665	0.999254	0.000295970	0.998946
rad38	0.000160719	0.999414	0.000226876	0.999173
PAH1+H	9.95931e-05	0.999514	0.000140589	0.999314
rad50	5.46328e-05	0.999569	7.71214e-05	0.999391
rad35	5.24979e-05	0.999621	7.41079e-05	0.999465
rad46	5.06983e-05	0.999672	7.15674e-05	0.999537
PAH10+CH3	4.32190e-05	0.999715	6.10093e-05	0.999598
rad55	4.15447e-05	0.999757	5.86459e-05	0.999656
rad70	4.13232e-05	0.999798	5.83331e-05	0.999715
PAH3+H	3.54273e-05	0.999833	5.00103e-05	0.999765
rad67	3.21710e-05	0.999866	4.54135e-05	0.999810
rad56	2.10958e-05	0.999887	2.97795e-05	0.999840
rad51	2.05290e-05	0.999907	2.89794e-05	0.999869
rad53	1.82253e-05	0.999925	2.57273e-05	0.999895
rad30	1.61770e-05	0.999942	2.28359e-05	0.999917
rad37	1.58091e-05	0.999957	2.23166e-05	0.999940
rad34	1.21378e-05	0.999970	1.71341e-05	0.999957
rad52	5.53699e-06	0.999975	7.81618e-06	0.999965
rad62	4.54170e-06	0.999980	6.41120e-06	0.999971
PAH8+H	4.26413e-06	0.999984	6.01937e-06	0.999977
rad59	3.10133e-06	0.999987	4.37793e-06	0.999982
rad64	2.31389e-06	0.999989	3.26637e-06	0.999985
rad60syn	2.18352e-06	0.999991	3.08232e-06	0.999988
rad60anti	1.52762e-06	0.999993	2.15643e-06	0.999990
rad71	1.42621e-06	0.999994	2.01329e-06	0.999992
rad68syn	1.22834e-06	0.999996	1.73396e-06	0.999994
rad73	8.52958e-07	0.999996	1.20406e-06	0.999995
rad68anti	7.89692e-07	0.999997	1.11475e-06	0.999996
rad65	5.43585e-07	0.999998	7.67340e-07	0.999997
rad42	4.97942e-07	0.999998	7.02910e-07	0.999998
rad40syn	4.83630e-07	0.999999	6.82706e-07	0.999998
rad58	4.30302e-07	0.999999	6.07428e-07	0.999999
rad40anti	3.15359e-07	1.000000	4.45171e-07	0.999999
rad43	2.01350e-07	1.000000	2.84232e-07	1.000000
rad61	1.06762e-07	1.000000	1.50709e-07	1.000000
rad72	7.85260e-08	1.000000	1.10849e-07	1.000000
rad41	2.11925e-08	1.000000	2.99160e-08	1.000000
rad6	1.21712e-10	1.000000	1.71812e-10	1.000000
rad7	1.68614e-12	1.000000	2.38021e-12	1.000000
rad11	1.28945e-12	1.000000	1.82022e-12	1.000000
rad23	9.24061e-13	1.000000	1.30443e-12	1.000000
rad28	4.38780e-13	1.000000	6.19396e-13	1.000000
rad9	2.77272e-13	1.000000	3.91406e-13	1.000000
rad13	1.82815e-13	1.000000	2.58067e-13	1.000000
rad45	1.39954e-13	1.000000	1.97563e-13	1.000000
rad22	6.77272e-14	1.000000	9.56057e-14	1.000000
rad21	2.97971e-14	1.000000	4.20624e-14	1.000000
rad36	2.52704e-14	1.000000	3.56725e-14	1.000000
rad15	1.60470e-14	1.000000	2.26524e-14	1.000000
rad33	1.06527e-14	1.000000	1.50376e-14	1.000000
rad26	8.59643e-15	1.000000	1.21350e-14	1.000000
rad20	6.76730e-15	1.000000	9.55289e-15	1.000000
rad10	3.09411e-15	1.000000	4.36773e-15	1.000000
rad25	2.68292e-15	1.000000	3.78730e-15	1.000000
rad12	2.31790e-15	1.000000	3.27203e-15	1.000000
rad18	2.02954e-15	1.000000	2.86497e-15	1.000000
rad24	1.45642e-15	1.000000	2.05592e-15	1.000000
rad2	7.47438e-16	1.000000	1.05511e-15	1.000000
rad3	5.33767e-16	1.000000	7.53482e-16	1.000000
rad4	3.33458e-16	1.000000	4.70720e-16	1.000000
rad1	2.05802e-16	1.000000	2.90516e-16	1.000000
rad8	2.01388e-16	1.000000	2.84285e-16	1.000000
rad14	1.40659e-16	1.000000	1.98558e-16	1.000000
rad47	4.71862e-17	1.000000	6.66097e-17	1.000000
rad5	2.20686e-17	1.000000	3.11526e-17	1.000000
rad27	7.37467e-18	1.000000	1.04103e-17	1.000000

0.100000000E-02 Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.28090e-11 (1.00)	2.31980e-11 (1.00)
Formation of rad11	6.43164e-12 (0.196)	2.60906e-12 (0.112)
Formation of rad6	9.73932e-12 (0.297)	3.95085e-12 (0.170)

H-abstraction | 1.66381e-11 (0.507) 1.66381e-11 (0.717)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.717221	0.717221
Phenyl+Allene	0.292939	0.800058	0.00000	0.717221
PhCH2CCH+H	0.0943957	0.894453	0.133505	0.850725
PhCHCCH2+H	0.0481939	0.942647	0.0681609	0.918886
C2H2+PhCH2	0.0183497	0.960997	0.0259521	0.944838
PhCCH+CH3	0.0148752	0.975872	0.0210381	0.965876
Indene+H	0.00953292	0.985405	0.0134824	0.979359
PAH7+H	0.00553047	0.990936	0.00782174	0.987180
Ph+MeAc	0.00339482	0.994330	0.00480131	0.991982
PhcycC3H3_A+H	0.00149309	0.995824	0.00211168	0.994093
rad19syn	0.00122618	0.997050	0.00173419	0.995828
rad39	0.000692493	0.997742	0.000979395	0.996807
rad54	0.000558297	0.998301	0.000789599	0.997597
rad19anti	0.000392540	0.998693	0.000555170	0.998152
PAH9+H	0.000261381	0.998954	0.000369672	0.998522
PhCCCH3+H	0.000164587	0.999119	0.000232776	0.998754
rad38	0.000157797	0.999277	0.000223174	0.998977
PAH1+H	0.000129617	0.999406	0.000183319	0.999161
rad50	6.95416e-05	0.999476	9.83527e-05	0.999259
rad55	5.44673e-05	0.999530	7.70336e-05	0.999336
rad46	5.29591e-05	0.999583	7.49001e-05	0.999411
rad35	5.14100e-05	0.999635	7.27094e-05	0.999484
PAH10+CH3	5.04331e-05	0.999685	7.13277e-05	0.999555
rad70	4.95223e-05	0.999735	7.00399e-05	0.999625
PAH3+H	4.31617e-05	0.999778	6.10439e-05	0.999686
rad67	3.73882e-05	0.999815	5.28783e-05	0.999739
rad56	3.65112e-05	0.999852	5.16378e-05	0.999791
rad51	2.99347e-05	0.999882	4.23369e-05	0.999833
rad53	2.90213e-05	0.999911	4.10449e-05	0.999874
rad34	1.57208e-05	0.999926	2.22340e-05	0.999896
rad30	1.43454e-05	0.999941	2.02888e-05	0.999917
rad37	1.43019e-05	0.999955	2.02272e-05	0.999937
PAH8+H	8.32886e-06	0.999963	1.17795e-05	0.999949
rad52	7.47627e-06	0.999971	1.05737e-05	0.999959
rad62	5.70269e-06	0.999977	8.06532e-06	0.999967
rad59	3.60017e-06	0.999980	5.09173e-06	0.999972
rad64	3.22135e-06	0.999983	4.55597e-06	0.999977
rad71	3.21465e-06	0.999987	4.54650e-06	0.999981
rad60syn	2.29248e-06	0.999989	3.24226e-06	0.999985
rad68syn	1.99920e-06	0.999991	2.82747e-06	0.999988
rad73	1.73023e-06	0.999993	2.44707e-06	0.999990
rad60anti	1.62672e-06	0.999994	2.30068e-06	0.999992
rad68anti	1.28205e-06	0.999996	1.81322e-06	0.999994
rad40syn	8.70429e-07	0.999996	1.23105e-06	0.999995
rad65	7.65686e-07	0.999997	1.08291e-06	0.999996
rad42	7.25369e-07	0.999998	1.02590e-06	0.999997
rad58	6.16762e-07	0.999999	8.72293e-07	0.999998
rad40anti	5.85898e-07	0.999999	8.28640e-07	0.999999
rad43	2.45120e-07	0.999999	3.46673e-07	0.999999
rad72	2.19453e-07	1.000000	3.10373e-07	1.000000
rad61	1.61750e-07	1.000000	2.28765e-07	1.000000
rad41	3.09947e-08	1.000000	4.38359e-08	1.000000
rad6	3.31424e-11	1.000000	4.68735e-11	1.000000
rad7	6.60407e-13	1.000000	9.34012e-13	1.000000
rad11	4.80324e-13	1.000000	6.79324e-13	1.000000
rad23	2.66252e-13	1.000000	3.76560e-13	1.000000
rad28	1.18646e-13	1.000000	1.67802e-13	1.000000
rad9	1.08157e-13	1.000000	1.52967e-13	1.000000
rad13	7.91341e-14	1.000000	1.11920e-13	1.000000
rad45	5.45595e-14	1.000000	7.71634e-14	1.000000
rad22	2.13245e-14	1.000000	3.01593e-14	1.000000
rad21	1.39346e-14	1.000000	1.97077e-14	1.000000
rad36	1.00192e-14	1.000000	1.41702e-14	1.000000
rad15	6.95406e-15	1.000000	9.83515e-15	1.000000
rad33	5.56576e-15	1.000000	7.87170e-15	1.000000
rad26	3.03693e-15	1.000000	4.29514e-15	1.000000
rad20	2.88829e-15	1.000000	4.08492e-15	1.000000
rad25	1.37165e-15	1.000000	1.93993e-15	1.000000
rad12	1.32606e-15	1.000000	1.87546e-15	1.000000
rad10	1.12056e-15	1.000000	1.58481e-15	1.000000
rad24	7.99114e-16	1.000000	1.13019e-15	1.000000
rad18	7.64154e-16	1.000000	1.08075e-15	1.000000
rad3	2.12625e-16	1.000000	3.00716e-16	1.000000
rad2	2.01652e-16	1.000000	2.85197e-16	1.000000
rad8	1.74700e-16	1.000000	2.47079e-16	1.000000
rad4	1.29969e-16	1.000000	1.83816e-16	1.000000

rad14	7.76885e-17	1.000000	1.09875e-16	1.00000
rad47	6.74962e-17	1.000000	9.54604e-17	1.00000
rad1	5.42598e-17	1.000000	7.67401e-17	1.00000
rad5	1.45372e-17	1.000000	2.05600e-17	1.00000
rad27	3.67289e-18	1.000000	5.19460e-18	1.00000

0.100000000E-02 Pa, 2750.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	4.60596e-11	(1.00)	3.26255e-11	(1.00)
Formation of rad11	8.62280e-12	(0.187)	3.34633e-12	(0.103)
Formation of rad6	1.33313e-11	(0.289)	5.17360e-12	(0.159)
H-abstraction	2.41055e-11	(0.523)	2.41055e-11	(0.739)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.738856	0.738856
Phenyl+Allene	0.291669	0.815024	0.000000	0.738856
PhCH2CCH+H	0.0913925	0.906416	0.129025	0.867881
PhCHCCH2+H	0.0440897	0.950506	0.0622446	0.930126
C2H2+PhCH2	0.0155259	0.966032	0.0219190	0.952045
PhCCH+CH3	0.0128664	0.978898	0.0181644	0.970209
Indene+H	0.00652675	0.985425	0.00921427	0.979424
PAH7+H	0.00506746	0.990493	0.00715408	0.986578
Ph+MeAc	0.00315047	0.993643	0.00444775	0.991026
PhcycC3H3_A+H	0.00197300	0.995616	0.00278544	0.993811
rad19syn	0.00143568	0.997052	0.00202686	0.995838
rad54	0.000652594	0.997704	0.000921315	0.996759
rad39	0.000584043	0.998288	0.000824532	0.997584
rad19anti	0.000328573	0.998617	0.000463869	0.998048
PAH9+H	0.000240059	0.998857	0.000338907	0.998386
PAH1+H	0.000158291	0.999015	0.000223471	0.998610
rad38	0.000149711	0.999165	0.000211358	0.998821
PhCCCH3+H	0.000136861	0.999302	0.000193216	0.999015
rad50	8.19601e-05	0.999384	0.000115709	0.999130
rad55	6.64334e-05	0.999450	9.37887e-05	0.999224
rad70	5.64830e-05	0.999507	7.97407e-05	0.999304
rad56	5.59920e-05	0.999563	7.90477e-05	0.999383
PAH10+CH3	5.49972e-05	0.999618	7.76435e-05	0.999460
rad46	5.29186e-05	0.999671	7.47090e-05	0.999535
PAH3+H	5.07704e-05	0.999721	7.16761e-05	0.999607
rad35	4.92117e-05	0.999771	6.94754e-05	0.999676
rad53	4.15958e-05	0.999812	5.87239e-05	0.999735
rad67	4.08893e-05	0.999853	5.77263e-05	0.999793
rad51	3.94231e-05	0.999893	5.56562e-05	0.999848
rad34	1.91382e-05	0.999912	2.70187e-05	0.999875
PAH8+H	1.42400e-05	0.999926	2.01036e-05	0.999896
rad30	1.30159e-05	0.999939	1.83754e-05	0.999914
rad37	1.25497e-05	0.999951	1.77173e-05	0.999932
rad52	9.23200e-06	0.999961	1.30335e-05	0.999945
rad62	6.96508e-06	0.999968	9.83308e-06	0.999954
rad71	6.06264e-06	0.999974	8.55909e-06	0.999963
rad64	4.12924e-06	0.999978	5.82954e-06	0.999969
rad59	4.06487e-06	0.999982	5.73866e-06	0.999975
rad73	2.98825e-06	0.999985	4.21872e-06	0.999979
rad68syn	2.93858e-06	0.999988	4.14861e-06	0.999983
rad60syn	2.38752e-06	0.999990	3.37063e-06	0.999986
rad68anti	1.88086e-06	0.999992	2.65533e-06	0.999989
rad60anti	1.71401e-06	0.999994	2.41979e-06	0.999991
rad40syn	1.39059e-06	0.999995	1.96319e-06	0.999993
rad42	1.00618e-06	0.999996	1.42050e-06	0.999995
rad65	9.77109e-07	0.999997	1.37945e-06	0.999996
rad40anti	9.60893e-07	0.999998	1.35656e-06	0.999998
rad58	8.26832e-07	0.999999	1.16730e-06	0.999999
rad72	4.93194e-07	1.000000	6.96274e-07	0.999999
rad43	2.90363e-07	1.000000	4.09925e-07	1.000000
rad61	2.19014e-07	1.000000	3.09197e-07	1.000000
rad41	4.25216e-08	1.000000	6.00307e-08	1.000000
rad6	1.12726e-11	1.000000	1.59144e-11	1.000000
rad7	2.96734e-13	1.000000	4.18921e-13	1.000000
rad11	2.05455e-13	1.000000	2.90055e-13	1.000000
rad23	9.11899e-14	1.000000	1.28739e-13	1.000000
rad9	4.53895e-14	1.000000	6.40794e-14	1.000000
rad28	4.03639e-14	1.000000	5.69847e-14	1.000000
rad13	3.84829e-14	1.000000	5.43291e-14	1.000000
rad45	2.34841e-14	1.000000	3.31543e-14	1.000000
rad22	7.95469e-15	1.000000	1.12302e-14	1.000000
rad21	7.20273e-15	1.000000	1.01686e-14	1.000000
rad36	4.37413e-15	1.000000	6.17526e-15	1.000000

rad15	3.20859e-15	1.00000	4.52980e-15	1.00000
rad33	3.15102e-15	1.00000	4.44850e-15	1.00000
rad20	1.44343e-15	1.00000	2.03779e-15	1.00000
rad26	1.24207e-15	1.00000	1.75351e-15	1.00000
rad12	7.84782e-16	1.00000	1.10793e-15	1.00000
rad25	7.63295e-16	1.00000	1.07760e-15	1.00000
rad10	4.83047e-16	1.00000	6.81948e-16	1.00000
rad24	4.65717e-16	1.00000	6.57484e-16	1.00000
rad18	3.38458e-16	1.00000	4.77825e-16	1.00000
rad8	1.52996e-16	1.00000	2.15996e-16	1.00000
rad3	9.88010e-17	1.00000	1.39484e-16	1.00000
rad47	8.69678e-17	1.00000	1.22779e-16	1.00000
rad2	7.15516e-17	1.00000	1.01015e-16	1.00000
rad4	5.93304e-17	1.00000	8.37608e-17	1.00000
rad14	4.74808e-17	1.00000	6.70319e-17	1.00000
rad1	1.83445e-17	1.00000	2.58982e-17	1.00000
rad5	1.01903e-17	1.00000	1.43864e-17	1.00000
rad27	2.15740e-18	1.00000	3.04574e-18	1.00000

0.100000000E-02 Pa, 3000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.43911e-11 (1.00)
Formation of rad11	1.12221e-11 (0.180)	4.21269e-12 (0.0949)
Formation of rad6	1.76534e-11 (0.283)	6.62699e-12 (0.149)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.756)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.755814	0.755814
Phenyl+Allene	0.288911	0.826362	0.000000	0.755814
PhCH2CCH+H	0.0883066	0.914669	0.124185	0.879999
PhCHCCH2+H	0.0408111	0.955480	0.0573925	0.937392
C2H2+PhCH2	0.0138651	0.969345	0.0194984	0.956890
PhCCH+CH3	0.0113582	0.980703	0.0159730	0.972863
PAH7+H	0.00465329	0.985356	0.00654386	0.979407
Indene+H	0.00463895	0.989995	0.00652370	0.985931
Ph+MeAc	0.00297587	0.992971	0.00418496	0.990116
PhcycC3H3_A+H	0.00245642	0.995427	0.00345445	0.993570
rad19syn	0.00161454	0.997042	0.00227052	0.995841
rad54	0.000727890	0.997770	0.00102362	0.996864
rad39	0.000500510	0.998270	0.000703861	0.997568
rad19anti	0.000275358	0.998546	0.000387232	0.997955
PAH9+H	0.000215435	0.998761	0.000302964	0.998258
PAH1+H	0.000185098	0.998946	0.000260302	0.998519
rad38	0.000138297	0.999085	0.000194486	0.998713
PhCCCH3+H	0.000118094	0.999203	0.000166074	0.998879
rad50	9.10199e-05	0.999294	0.000128001	0.999007
rad56	7.84307e-05	0.999372	0.000110297	0.999117
rad55	7.67854e-05	0.999449	0.000107983	0.999225
rad70	6.22156e-05	0.999511	8.74935e-05	0.999313
PAH3+H	5.79162e-05	0.999569	8.14472e-05	0.999394
PAH10+CH3	5.73435e-05	0.999626	8.06419e-05	0.999475
rad53	5.50942e-05	0.999682	7.74787e-05	0.999552
rad46	5.10964e-05	0.999733	7.18563e-05	0.999624
rad51	4.79927e-05	0.999781	6.74918e-05	0.999692
rad35	4.64038e-05	0.999827	6.52572e-05	0.999757
rad67	4.30004e-05	0.999870	6.04712e-05	0.999818
rad34	2.22803e-05	0.999892	3.13327e-05	0.999849
PAH8+H	2.20424e-05	0.999914	3.09982e-05	0.999880
rad30	1.19659e-05	0.999926	1.68276e-05	0.999897
rad37	1.08360e-05	0.999937	1.52386e-05	0.999912
rad52	1.06405e-05	0.999948	1.49636e-05	0.999927
rad71	9.97847e-06	0.999958	1.40327e-05	0.999941
rad62	8.52399e-06	0.999966	1.19872e-05	0.999953
rad64	4.99011e-06	0.999971	7.01754e-06	0.999960
rad73	4.56449e-06	0.999976	6.41901e-06	0.999966
rad59	4.47702e-06	0.999980	6.29599e-06	0.999973
rad68syn	4.00554e-06	0.999984	5.63295e-06	0.999978
rad68anti	2.55993e-06	0.999987	3.60001e-06	0.999982
rad60syn	2.46101e-06	0.999989	3.46090e-06	0.999985
rad40syn	2.03324e-06	0.999991	2.85932e-06	0.999988
rad60anti	1.78407e-06	0.999993	2.50894e-06	0.999991
rad40anti	1.43624e-06	0.999995	2.01978e-06	0.999993
rad42	1.37800e-06	0.999996	1.93787e-06	0.999995
rad65	1.15674e-06	0.999997	1.62672e-06	0.999996
rad58	1.05023e-06	0.999998	1.47693e-06	0.999998
rad72	9.39261e-07	0.999999	1.32087e-06	0.999999
rad43	3.36095e-07	0.999999	4.72649e-07	1.000000

rad61	2.73990e-07	1.000000	3.85311e-07	1.000000
rad41	5.56844e-08	1.000000	7.83087e-08	1.000000
rad6	4.47428e-12	1.000000	6.29216e-12	1.000000
rad7	1.48109e-13	1.000000	2.08284e-13	1.000000
rad11	9.86450e-14	1.000000	1.38724e-13	1.000000
rad23	3.52815e-14	1.000000	4.96161e-14	1.000000
rad13	2.05540e-14	1.000000	2.89048e-14	1.000000
rad9	2.04934e-14	1.000000	2.88198e-14	1.000000
rad28	1.59974e-14	1.000000	2.24971e-14	1.000000
rad45	1.09755e-14	1.000000	1.54348e-14	1.000000
rad21	4.05034e-15	1.000000	5.69598e-15	1.000000
rad22	3.37076e-15	1.000000	4.74028e-15	1.000000
rad36	2.06822e-15	1.000000	2.90852e-15	1.000000
rad33	1.89985e-15	1.000000	2.67174e-15	1.000000
rad15	1.57462e-15	1.000000	2.21438e-15	1.000000
rad20	8.22777e-16	1.000000	1.15707e-15	1.000000
rad26	5.57755e-16	1.000000	7.84369e-16	1.000000
rad12	4.82938e-16	1.000000	6.79152e-16	1.000000
rad25	4.56475e-16	1.000000	6.41938e-16	1.000000
rad24	2.85392e-16	1.000000	4.01344e-16	1.000000
rad10	2.32373e-16	1.000000	3.26784e-16	1.000000
rad18	1.70018e-16	1.000000	2.39095e-16	1.000000
rad8	1.34844e-16	1.000000	1.89630e-16	1.000000
rad47	1.03449e-16	1.000000	1.45480e-16	1.000000
rad3	5.15617e-17	1.000000	7.25113e-17	1.000000
rad14	3.16325e-17	1.000000	4.44846e-17	1.000000
rad2	3.09387e-17	1.000000	4.35088e-17	1.000000
rad4	3.07216e-17	1.000000	4.32036e-17	1.000000
rad1	7.48658e-18	1.000000	1.05283e-17	1.000000
rad5	7.41054e-18	1.000000	1.04214e-17	1.000000
rad27	1.40642e-18	1.000000	1.97783e-18	1.000000

0.100000000E-02 Pa, 3250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.22129e-11 (1.00)	5.87536e-11 (1.00)
Formation of rad11	1.42538e-11 (0.173)	5.21849e-12 (0.0888)
Formation of rad6	2.27549e-11 (0.277)	8.33083e-12 (0.142)
H-abstraction	4.52043e-11 (0.550)	4.52043e-11 (0.769)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.549844	0.549844	0.769388	0.769388
Phenyl+Allene	0.285349	0.835192	0.000000	0.769388
PhCH2CCH+H	0.0853725	0.920565	0.119460	0.888848
PhCHCCH2+H	0.0381839	0.958749	0.0534299	0.942278
C2H2+PhCH2	0.0128678	0.971617	0.0180057	0.960283
PhCCH+CH3	0.0101926	0.981809	0.0142623	0.974546
PAH7+H	0.00428274	0.986092	0.00599276	0.980539
Indene+H	0.00340695	0.989499	0.00476729	0.985306
PhcycC3H3_A+H	0.00292038	0.992419	0.00408643	0.989392
Ph+MeAc	0.00285191	0.995271	0.00399061	0.993383
rad19syn	0.00176005	0.997031	0.00246280	0.995846
rad54	0.000783510	0.997815	0.00109635	0.996942
rad39	0.000435199	0.998250	0.000608967	0.997551
rad19anti	0.000232598	0.998483	0.000325470	0.997876
PAH1+H	0.000210285	0.998693	0.000294248	0.998171
PAH9+H	0.000189946	0.998883	0.000265788	0.998436
rad38	0.000125074	0.999008	0.000175014	0.998611
PhCCCH3+H	0.000104499	0.999112	0.000146224	0.998758
rad56	0.000102496	0.999215	0.000143420	0.998901
rad50	9.64743e-05	0.999311	0.000134995	0.999036
rad55	8.51952e-05	0.999397	0.000119212	0.999155
rad53	6.86880e-05	0.999465	9.61137e-05	0.999251
rad70	6.67834e-05	0.999532	9.34486e-05	0.999345
PAH3+H	6.43467e-05	0.999596	9.00394e-05	0.999435
PAH10+CH3	5.80427e-05	0.999654	8.12183e-05	0.999516
rad51	5.49240e-05	0.999709	7.68541e-05	0.999593
rad46	4.80263e-05	0.999757	6.72021e-05	0.999660
rad67	4.40669e-05	0.999802	6.16619e-05	0.999722
rad35	4.33473e-05	0.999845	6.06552e-05	0.999783
PAH8+H	3.16111e-05	0.999876	4.42329e-05	0.999827
rad34	2.50786e-05	0.999902	3.50921e-05	0.999862
rad71	1.47743e-05	0.999916	2.06734e-05	0.999883
rad52	1.16170e-05	0.999928	1.62555e-05	0.999899
rad30	1.10774e-05	0.999939	1.55003e-05	0.999914
rad62	1.06705e-05	0.999950	1.49310e-05	0.999929
rad37	9.29424e-06	0.999959	1.30053e-05	0.999942
rad73	6.33743e-06	0.999965	8.86788e-06	0.999951

rad64	5.77649e-06	0.999971	8.08292e-06	0.999959
rad68syn	5.15348e-06	0.999976	7.21118e-06	0.999966
rad59	4.82486e-06	0.999981	6.75136e-06	0.999973
rad68anti	3.28964e-06	0.999984	4.60314e-06	0.999978
rad40syn	2.77792e-06	0.999987	3.88709e-06	0.999982
rad60syn	2.50929e-06	0.999990	3.51119e-06	0.999985
rad40anti	1.99952e-06	0.999992	2.79788e-06	0.999988
rad42	1.90464e-06	0.999994	2.66512e-06	0.999991
rad60anti	1.83422e-06	0.999995	2.56658e-06	0.999993
rad72	1.57365e-06	0.999997	2.20197e-06	0.999995
rad65	1.29208e-06	0.999998	1.80798e-06	0.999997
rad58	1.27682e-06	1.000000	1.78663e-06	0.999999
rad43	3.85029e-07	1.000000	5.38764e-07	1.000000
rad61	3.23853e-07	1.000000	4.53160e-07	1.000000
rad41	7.10639e-08	1.000000	9.94383e-08	1.000000
rad6	2.00247e-12	1.000000	2.80203e-12	1.000000
rad7	8.03484e-14	1.000000	1.12430e-13	1.000000
rad11	5.21744e-14	1.000000	7.30064e-14	1.000000
rad23	1.49807e-14	1.000000	2.09622e-14	1.000000
rad13	1.18527e-14	1.000000	1.65852e-14	1.000000
rad9	9.93332e-15	1.000000	1.38995e-14	1.000000
rad28	7.11040e-15	1.000000	9.94945e-15	1.000000
rad45	5.48979e-15	1.000000	7.68177e-15	1.000000
rad21	2.44315e-15	1.000000	3.41865e-15	1.000000
rad22	1.58556e-15	1.000000	2.21864e-15	1.000000
rad33	1.20474e-15	1.000000	1.68578e-15	1.000000
rad36	1.04416e-15	1.000000	1.46108e-15	1.000000
rad15	8.20648e-16	1.000000	1.14832e-15	1.000000
rad20	5.20430e-16	1.000000	7.28230e-16	1.000000
rad12	3.09374e-16	1.000000	4.32901e-16	1.000000
rad25	2.89947e-16	1.000000	4.05717e-16	1.000000
rad26	2.69860e-16	1.000000	3.77609e-16	1.000000
rad24	1.82403e-16	1.000000	2.55233e-16	1.000000
rad10	1.20968e-16	1.000000	1.69268e-16	1.000000
rad8	1.19193e-16	1.000000	1.66784e-16	1.000000
rad47	1.15640e-16	1.000000	1.61813e-16	1.000000
rad18	9.40399e-17	1.000000	1.31588e-16	1.000000
rad3	2.94018e-17	1.000000	4.11413e-17	1.000000
rad14	2.29550e-17	1.000000	3.21204e-17	1.000000
rad4	1.75975e-17	1.000000	2.46239e-17	1.000000
rad2	1.53622e-17	1.000000	2.14960e-17	1.000000
rad5	5.56690e-18	1.000000	7.78965e-18	1.000000
rad1	3.52773e-18	1.000000	4.93628e-18	1.000000
rad27	9.84689e-19	1.000000	1.37786e-18	1.000000

0.100000000E-02 Pa, 3500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.05713e-10 (1.00)	7.59650e-11 (1.00)
Formation of rad11	1.77412e-11 (0.168)	6.37264e-12 (0.0839)
Formation of rad6	2.86822e-11 (0.271)	1.03027e-11 (0.136)
H-abstraction	5.92897e-11 (0.561)	5.92897e-11 (0.780)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.780487	0.780487
Phenyl+Allene	0.281404	0.842259	0.000000	0.780487
PhCH2CCH+H	0.0826656	0.924925	0.115037	0.895524
PhCHCCH2+H	0.0360585	0.960983	0.0501791	0.945703
C2H2+PhCH2	0.0122593	0.973242	0.0170600	0.962764
PhCCH+CH3	0.00927084	0.982513	0.0129013	0.975665
PAH7+H	0.00395025	0.986463	0.00549717	0.981162
PhcycC3H3_A+H	0.00334801	0.989811	0.00465910	0.985821
Ph+MeAc	0.00276398	0.992575	0.00384635	0.989667
Indene+H	0.00257590	0.995151	0.00358462	0.993252
rad19syn	0.00187235	0.997024	0.00260557	0.995858
rad54	0.000820548	0.997844	0.00114187	0.996999
rad39	0.000383055	0.998227	0.000533059	0.997533
PAH1+H	0.000234590	0.998462	0.000326455	0.997859
rad19anti	0.000198628	0.998661	0.000276411	0.998135
PAH9+H	0.000165224	0.998826	0.000229927	0.998365
rad56	0.000126873	0.998953	0.000176556	0.998542
rad38	0.000111229	0.999064	0.000154787	0.998697
rad50	9.85613e-05	0.999162	0.000137158	0.998834
PhCCCH3+H	9.42424e-05	0.999257	0.000131148	0.998965
rad55	9.15803e-05	0.999348	0.000127443	0.999092
rad53	8.16793e-05	0.999430	0.000113665	0.999206
rad70	7.02694e-05	0.999500	9.77871e-05	0.999304
PAH3+H	6.99220e-05	0.999570	9.73035e-05	0.999401

rad51	5.98507e-05	0.999630	8.32882e-05	0.999484
PAH10+CH3	5.76128e-05	0.999688	8.01742e-05	0.999565
rad67	4.43734e-05	0.999732	6.17501e-05	0.999626
rad46	4.41956e-05	0.999776	6.15029e-05	0.999688
PAH8+H	4.26935e-05	0.999819	5.94123e-05	0.999747
rad35	4.02805e-05	0.999859	5.60544e-05	0.999803
rad34	2.74951e-05	0.999887	3.82622e-05	0.999842
rad71	2.01281e-05	0.999907	2.80103e-05	0.999870
rad62	1.37116e-05	0.999920	1.90811e-05	0.999889
rad52	1.21501e-05	0.999933	1.69080e-05	0.999906
rad30	1.02915e-05	0.999943	1.43216e-05	0.999920
rad73	8.16310e-06	0.999951	1.13598e-05	0.999931
rad37	7.96636e-06	0.999959	1.10860e-05	0.999942
rad64	6.47621e-06	0.999966	9.01228e-06	0.999951
rad68syn	6.33612e-06	0.999972	8.81737e-06	0.999960
rad59	5.10458e-06	0.999977	7.10355e-06	0.999967
rad68anti	4.04059e-06	0.999981	5.62289e-06	0.999973
rad40syn	3.59895e-06	0.999985	5.00830e-06	0.999978
rad42	2.66321e-06	0.999987	3.70612e-06	0.999982
rad40anti	2.63316e-06	0.999990	3.66431e-06	0.999985
rad60syn	2.53258e-06	0.999992	3.52435e-06	0.999989
rad72	2.38441e-06	0.999995	3.31814e-06	0.999992
rad60anti	1.86455e-06	0.999997	2.59471e-06	0.999995
rad58	1.49815e-06	0.999998	2.08483e-06	0.999997
rad65	1.37925e-06	1.000000	1.91936e-06	0.999999
rad43	4.42452e-07	1.000000	6.15716e-07	0.999999
rad61	3.67258e-07	1.000000	5.11077e-07	1.000000
rad41	8.98821e-08	1.000000	1.25080e-07	1.000000
rad6	9.88525e-13	1.000000	1.37563e-12	1.000000
rad7	4.66162e-14	1.000000	6.48713e-14	1.000000
rad11	2.99128e-14	1.000000	4.16267e-14	1.000000
rad13	7.28309e-15	1.000000	1.01352e-14	1.000000
rad23	6.86375e-15	1.000000	9.55160e-15	1.000000
rad9	5.14850e-15	1.000000	7.16468e-15	1.000000
rad28	3.46852e-15	1.000000	4.82680e-15	1.000000
rad45	2.90444e-15	1.000000	4.04183e-15	1.000000
rad21	1.56206e-15	1.000000	2.17377e-15	1.000000
rad22	8.14241e-16	1.000000	1.13310e-15	1.000000
rad33	7.96109e-16	1.000000	1.10787e-15	1.000000
rad36	5.56397e-16	1.000000	7.74281e-16	1.000000
rad15	4.52724e-16	1.000000	6.30009e-16	1.000000
rad20	3.56500e-16	1.000000	4.96106e-16	1.000000
rad12	2.06000e-16	1.000000	2.86671e-16	1.000000
rad25	1.93599e-16	1.000000	2.69413e-16	1.000000
rad26	1.39337e-16	1.000000	1.93901e-16	1.000000
rad47	1.23125e-16	1.000000	1.71341e-16	1.000000
rad24	1.20836e-16	1.000000	1.68155e-16	1.000000
rad8	1.05361e-16	1.000000	1.46621e-16	1.000000
rad10	6.70290e-17	1.000000	9.32774e-17	1.000000
rad18	5.60038e-17	1.000000	7.79350e-17	1.000000
rad14	1.81850e-17	1.000000	2.53063e-17	1.000000
rad3	1.79698e-17	1.000000	2.50069e-17	1.000000
rad4	1.09323e-17	1.000000	1.52134e-17	1.000000
rad2	8.41442e-18	1.000000	1.17095e-17	1.000000
rad5	4.31411e-18	1.000000	6.00352e-18	1.000000
rad1	1.86115e-18	1.000000	2.58999e-18	1.000000
rad27	7.31085e-19	1.000000	1.01738e-18	1.000000

0.100000000E-02 Pa, 3750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.33217e-10 (1.00)	9.62711e-11 (1.00)
Formation of rad11	2.17064e-11 (0.163)	7.68279e-12 (0.0798)
Formation of rad6	3.54800e-11 (0.266)	1.25578e-11 (0.130)
H-abstraction	7.60305e-11 (0.571)	7.60305e-11 (0.790)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789754	0.789754
Phenyl+Allene	0.277336	0.848063	0.00000	0.789754
PhCH2CCH+H	0.0801946	0.928257	0.110971	0.900725
PhCHCCH2+H	0.0343186	0.962576	0.0474891	0.948214
C2H2+PhCH2	0.0118838	0.974460	0.0164445	0.964658
PhCCH+CH3	0.00852836	0.982988	0.0118013	0.976459
PhcycC3H3_A+H	0.00372851	0.986717	0.00515939	0.981619
PAH7+H	0.00365085	0.990368	0.00505194	0.986671
Ph+MeAc	0.00270113	0.993069	0.00373773	0.990408
Indene+H	0.00199900	0.995068	0.00276616	0.993175
rad19syn	0.00195356	0.997021	0.00270328	0.995878

rad54	0.000841040	0.997862	0.00116381	0.997042
rad39	0.000340475	0.998203	0.000471138	0.997513
PAH1+H	0.000258935	0.998462	0.000358305	0.997871
rad19anti	0.000171610	0.998633	0.000237469	0.998109
rad56	0.000150421	0.998784	0.000208148	0.998317
PAH9+H	0.000142296	0.998926	0.000196904	0.998514
rad50	9.78214e-05	0.999024	0.000135362	0.998649
rad38	9.76287e-05	0.999121	0.000135095	0.998784
rad55	9.60227e-05	0.999217	0.000132873	0.998917
rad53	9.35446e-05	0.999311	0.000129444	0.999046
PhCCCH3+H	8.63448e-05	0.999397	0.000119481	0.999166
PAH3+H	7.46029e-05	0.999472	0.000103233	0.999269
rad70	7.27716e-05	0.999545	0.000100699	0.999370
rad51	6.27266e-05	0.999607	8.67994e-05	0.999457
PAH10+CH3	5.64592e-05	0.999664	7.81267e-05	0.999535
PAH8+H	5.49581e-05	0.999719	7.60493e-05	0.999611
rad67	4.41361e-05	0.999763	6.10741e-05	0.999672
rad46	4.00102e-05	0.999803	5.53649e-05	0.999727
rad35	3.73501e-05	0.999840	5.16839e-05	0.999779
rad34	2.95155e-05	0.999870	4.08426e-05	0.999820
rad71	2.56704e-05	0.999896	3.55219e-05	0.999855
rad62	1.78765e-05	0.999913	2.47369e-05	0.999880
rad52	1.22817e-05	0.999926	1.69950e-05	0.999897
rad73	9.90830e-06	0.999936	1.37108e-05	0.999911
rad30	9.58077e-06	0.999945	1.32576e-05	0.999924
rad68syn	7.51159e-06	0.999953	1.03943e-05	0.999934
rad64	7.08717e-06	0.999960	9.80700e-06	0.999944
rad37	6.84827e-06	0.999967	9.47639e-06	0.999954
rad59	5.31873e-06	0.999972	7.35989e-06	0.999961
rad68anti	4.78626e-06	0.999977	6.62308e-06	0.999968
rad40syn	4.46912e-06	0.999981	6.18422e-06	0.999974
rad42	3.72271e-06	0.999985	5.15138e-06	0.999979
rad72	3.33614e-06	0.999988	4.61643e-06	0.999984
rad40anti	3.31727e-06	0.999992	4.59032e-06	0.999988
rad60syn	2.53369e-06	0.999994	3.50604e-06	0.999992
rad60anti	1.87710e-06	0.999996	2.59748e-06	0.999994
rad58	1.70809e-06	0.999998	2.36361e-06	0.999997
rad65	1.42131e-06	0.999999	1.96676e-06	0.999999
rad43	5.13732e-07	1.000000	7.10883e-07	0.999999
rad61	4.03889e-07	1.000000	5.58888e-07	1.000000
rad41	1.13553e-07	1.000000	1.57130e-07	1.000000
rad6	5.29491e-13	1.000000	7.32694e-13	1.000000
rad7	2.85719e-14	1.000000	3.95370e-14	1.000000
rad11	1.83398e-14	1.000000	2.53779e-14	1.000000
rad13	4.71990e-15	1.000000	6.53125e-15	1.000000
rad23	3.35245e-15	1.000000	4.63901e-15	1.000000
rad9	2.83868e-15	1.000000	3.92807e-15	1.000000
rad28	1.82884e-15	1.000000	2.53069e-15	1.000000
rad45	1.61041e-15	1.000000	2.22844e-15	1.000000
rad21	1.04835e-15	1.000000	1.45067e-15	1.000000
rad33	5.44417e-16	1.000000	7.53345e-16	1.000000
rad22	4.50363e-16	1.000000	6.23196e-16	1.000000
rad36	3.10096e-16	1.000000	4.29099e-16	1.000000
rad15	2.63170e-16	1.000000	3.64167e-16	1.000000
rad20	2.59386e-16	1.000000	3.58930e-16	1.000000
rad12	1.42144e-16	1.000000	1.96695e-16	1.000000
rad25	1.34705e-16	1.000000	1.86401e-16	1.000000
rad47	1.26179e-16	1.000000	1.74602e-16	1.000000
rad8	9.29496e-17	1.000000	1.28621e-16	1.000000
rad24	8.25899e-17	1.000000	1.14285e-16	1.000000
rad26	7.62436e-17	1.000000	1.05503e-16	1.000000
rad10	3.91359e-17	1.000000	5.41551e-17	1.000000
rad18	3.53336e-17	1.000000	4.88935e-17	1.000000
rad14	1.56338e-17	1.000000	2.16337e-17	1.000000
rad3	1.16146e-17	1.000000	1.60718e-17	1.000000
rad4	7.25106e-18	1.000000	1.00338e-17	1.000000
rad2	4.95750e-18	1.000000	6.86001e-18	1.000000
rad5	3.44109e-18	1.000000	4.76167e-18	1.000000
rad1	1.07552e-18	1.000000	1.48827e-18	1.000000
rad27	5.73766e-19	1.000000	7.93960e-19	1.000000

0.100000000E-02 Pa, 4000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.65008e-10 (1.00)	1.19912e-10 (1.00)
Formation of rad11	2.61707e-11 (0.159)	9.15556e-12 (0.0764)
Formation of rad6	4.31906e-11 (0.262)	1.51098e-11 (0.126)
H-abstraction	9.56470e-11 (0.580)	9.56470e-11 (0.798)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.579650	0.579650	0.797641	0.797641
Phenyl+Allene	0.273295	0.852945	0.00000	0.797641
PhCH2CCH+H	0.0779435	0.930888	0.107256	0.904897
PhCHCCH2+H	0.0328766	0.963765	0.0452408	0.950138
C2H2+PhCH2	0.0116508	0.975415	0.0160323	0.966170
PhCCH+CH3	0.00792125	0.983337	0.0109003	0.977070
PhcycC3H3_A+H	0.00405636	0.987393	0.00558187	0.982652
PAH7+H	0.00338058	0.990774	0.00465193	0.987304
Ph+MeAc	0.00265534	0.993429	0.00365394	0.990958
rad19syn	0.00200699	0.995436	0.00276178	0.993720
Indene+H	0.00158840	0.997024	0.00218576	0.995906
rad54	0.000847468	0.997872	0.00116618	0.997072
rad39	0.000304994	0.998177	0.000419695	0.997491
PAH1+H	0.000284127	0.998461	0.000390980	0.997882
rad56	0.000172242	0.998633	0.000237017	0.998119
rad19anti	0.000149971	0.998783	0.000206372	0.998326
PAH9+H	0.000121736	0.998905	0.000167518	0.998493
rad53	0.000103935	0.999009	0.000143023	0.998636
rad55	9.87033e-05	0.999108	0.000135823	0.998772
rad50	9.49261e-05	0.999203	0.000130625	0.998903
rad38	8.48536e-05	0.999287	0.000116765	0.999020
PhCCCH3+H	8.02193e-05	0.999368	0.000110388	0.999130
PAH3+H	7.84218e-05	0.999446	0.000107914	0.999238
rad70	7.43978e-05	0.999520	0.000102377	0.999340
PAH8+H	6.80299e-05	0.999588	9.36140e-05	0.999434
rad51	6.37407e-05	0.999652	8.77122e-05	0.999522
PAH10+CH3	5.48776e-05	0.999707	7.55158e-05	0.999597
rad67	4.35168e-05	0.999751	5.98821e-05	0.999657
rad46	3.57792e-05	0.999786	4.92350e-05	0.999706
rad35	3.46400e-05	0.999821	4.76673e-05	0.999754
rad34	3.11445e-05	0.999852	4.28572e-05	0.999797
rad71	3.10563e-05	0.999883	4.27358e-05	0.999839
rad62	2.32398e-05	0.999906	3.19798e-05	0.999871
rad52	1.20851e-05	0.999919	1.66300e-05	0.999888
rad73	1.14710e-05	0.999930	1.57849e-05	0.999904
rad30	8.93299e-06	0.999939	1.22925e-05	0.999916
rad68syn	8.64434e-06	0.999948	1.18952e-05	0.999928
rad64	7.61305e-06	0.999955	1.04761e-05	0.999939
rad37	5.91727e-06	0.999961	8.14263e-06	0.999947
rad68anti	5.50424e-06	0.999967	7.57424e-06	0.999954
rad59	5.47385e-06	0.999972	7.53243e-06	0.999962
rad40syn	5.36170e-06	0.999977	7.37810e-06	0.999969
rad42	5.12142e-06	0.999983	7.04750e-06	0.999976
rad72	4.37871e-06	0.999987	6.02543e-06	0.999982
rad40anti	4.03125e-06	0.999991	5.54731e-06	0.999988
rad60syn	2.51669e-06	0.999993	3.46315e-06	0.999991
rad58	1.90267e-06	0.999995	2.61822e-06	0.999994
rad60anti	1.87487e-06	0.999997	2.57996e-06	0.999996
rad65	1.42564e-06	0.999999	1.96179e-06	0.999998
rad43	6.01849e-07	0.999999	8.28191e-07	0.999999
rad61	4.34037e-07	1.000000	5.97267e-07	1.000000
rad41	1.43043e-07	1.000000	1.96838e-07	1.000000
rad6	3.03812e-13	1.000000	4.18068e-13	1.000000
rad7	1.83291e-14	1.000000	2.52222e-14	1.000000
rad11	1.18922e-14	1.000000	1.63646e-14	1.000000
rad13	3.19991e-15	1.000000	4.40331e-15	1.000000
rad23	1.72922e-15	1.000000	2.37954e-15	1.000000
rad9	1.65535e-15	1.000000	2.27788e-15	1.000000
rad28	1.03005e-15	1.000000	1.41742e-15	1.000000
rad45	9.29239e-16	1.000000	1.27871e-15	1.000000
rad21	7.32814e-16	1.000000	1.00841e-15	1.000000
rad33	3.83235e-16	1.000000	5.27360e-16	1.000000
rad22	2.65335e-16	1.000000	3.65121e-16	1.000000
rad20	1.97583e-16	1.000000	2.71888e-16	1.000000
rad36	1.79513e-16	1.000000	2.47024e-16	1.000000
rad15	1.60394e-16	1.000000	2.20715e-16	1.000000
rad47	1.25502e-16	1.000000	1.72700e-16	1.000000
rad12	1.01281e-16	1.000000	1.39370e-16	1.000000
rad25	9.69849e-17	1.000000	1.33459e-16	1.000000
rad8	8.17489e-17	1.000000	1.12493e-16	1.000000
rad24	5.80458e-17	1.000000	7.98754e-17	1.000000
rad26	4.39527e-17	1.000000	6.04821e-17	1.000000
rad10	2.39157e-17	1.000000	3.29099e-17	1.000000
rad18	2.33497e-17	1.000000	3.21310e-17	1.000000
rad14	1.43354e-17	1.000000	1.97266e-17	1.000000
rad3	7.86337e-18	1.000000	1.08206e-17	1.000000
rad4	5.07144e-18	1.000000	6.97868e-18	1.000000
rad2	3.09371e-18	1.000000	4.25719e-18	1.000000

rad5	2.81589e-18	1.000000	3.87489e-18	1.00000
rad1	6.69479e-19	1.000000	9.21256e-19	1.00000
rad27	4.74794e-19	1.000000	6.53353e-19	1.00000

0.100000000E-03 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.56740e-51 (1.00)	1.56740e-51 (1.00)
Formation of rad11	1.56740e-51 (1.000)	1.56740e-51 (1.000)
Formation of rad6	3.73945e-60 (2.39e-09)	3.73945e-60 (2.39e-09)
H-abstraction	1.53631e-76 (9.80e-26)	1.53631e-76 (9.80e-26)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.807790	0.807790	0.807790	0.807790
rad6	0.183596	0.991386	0.183596	0.991386
C2H2+PhCH2	0.00565107	0.997037	0.00565107	0.997037
PhCCH+CH3	0.00130829	0.998345	0.00130829	0.998345
PhCHCCH2+H	0.000847761	0.999193	0.000847761	0.999193
PhCCCH3+H	0.000495423	0.999689	0.000495423	0.999689
rad28	0.000150412	0.999839	0.000150412	0.999839
rad2	9.95361e-05	0.999938	9.95361e-05	0.999938
rad26	1.98430e-05	0.999958	1.98430e-05	0.999958
rad7	1.38689e-05	0.999972	1.38689e-05	0.999972
rad1	6.29092e-06	0.999978	6.29092e-06	0.999978
rad10	5.05935e-06	0.999984	5.05935e-06	0.999984
Ph+MeAc	5.04199e-06	0.999989	5.04199e-06	0.999989
rad8	3.89672e-06	0.999992	3.89672e-06	0.999992
rad11	3.43061e-06	0.999996	3.43061e-06	0.999996
rad9	1.76463e-06	0.999998	1.76463e-06	0.999998
PAH7+H	8.40022e-07	0.999999	8.40022e-07	0.999999
rad3	6.26591e-07	0.999999	6.26591e-07	0.999999
rad4	3.16775e-07	0.999999	3.16775e-07	0.999999
rad30	2.87809e-07	1.000000	2.87809e-07	1.000000
rad12	1.07762e-07	1.000000	1.07762e-07	1.000000
rad39	7.48169e-08	1.000000	7.48169e-08	1.000000
rad13	7.36319e-08	1.000000	7.36319e-08	1.000000
PAH9+H	5.76413e-08	1.000000	5.76413e-08	1.000000
rad15	5.00754e-08	1.000000	5.00754e-08	1.000000
rad35	3.07937e-08	1.000000	3.07937e-08	1.000000
rad38	1.46207e-08	1.000000	1.46207e-08	1.000000
Phenyl+Allene	1.33504e-08	1.000000	0.000000	1.000000
rad33	1.39015e-10	1.000000	1.39015e-10	1.000000
rad46	8.82831e-11	1.000000	8.82831e-11	1.000000
rad14	7.37994e-11	1.000000	7.37994e-11	1.000000
rad27	5.77831e-11	1.000000	5.77831e-11	1.000000
rad25	5.00542e-11	1.000000	5.00542e-11	1.000000
rad60syn	1.59318e-12	1.000000	1.59318e-12	1.000000
rad23	2.05336e-13	1.000000	2.05336e-13	1.000000
rad60anti	1.44752e-14	1.000000	1.44752e-14	1.000000
PhCH2CCH+H	2.30812e-15	1.000000	2.30812e-15	1.000000
rad31	1.79860e-15	1.000000	1.79860e-15	1.000000
rad45	1.75641e-15	1.000000	1.75641e-15	1.000000
rad20	3.29908e-16	1.000000	3.29908e-16	1.000000
rad37	3.02308e-16	1.000000	3.02308e-16	1.000000
rad21	2.42422e-16	1.000000	2.42422e-16	1.000000
rad22	1.19305e-16	1.000000	1.19305e-16	1.000000
rad36	1.09411e-16	1.000000	1.09411e-16	1.000000
rad18	1.56320e-18	1.000000	1.56320e-18	1.000000
rad5	2.37790e-19	1.000000	2.37790e-19	1.000000
rad24	3.80886e-23	1.000000	3.80886e-23	1.000000
PAH3+H	6.71054e-24	1.000000	6.71054e-24	1.000000
rad59	3.56634e-24	1.000000	3.56634e-24	1.000000
rad50	1.16182e-24	1.000000	1.16182e-24	1.000000
Benzene+2-propynyl	9.80165e-26	1.000000	9.80165e-26	1.000000
rad19syn	1.48465e-32	1.000000	1.48465e-32	1.000000
rad52	1.72699e-36	1.000000	1.72699e-36	1.000000
rad54	1.99604e-37	1.000000	1.99604e-37	1.000000
PAH10+CH3	1.31200e-37	1.000000	1.31200e-37	1.000000
rad43	3.01004e-38	1.000000	3.01004e-38	1.000000
rad62	9.51361e-41	1.000000	9.51361e-41	1.000000
rad51	1.06012e-43	1.000000	1.06012e-43	1.000000
rad70	1.24715e-46	1.000000	1.24715e-46	1.000000
PhcycC3H3_A+H	5.31280e-47	1.000000	5.31280e-47	1.000000
rad55	2.85928e-47	1.000000	2.85928e-47	1.000000
rad65	7.62781e-49	1.000000	7.62781e-49	1.000000
rad58	1.79293e-50	1.000000	1.79293e-50	1.000000
PAH1+H	2.53797e-52	1.000000	2.53797e-52	1.000000
rad34	1.66218e-54	1.000000	1.66218e-54	1.000000

rad42	1.20293e-58	1.00000	1.20293e-58	1.00000
rad41	1.51390e-59	1.00000	1.51390e-59	1.00000
rad47	4.50782e-61	1.00000	4.50782e-61	1.00000

0.100000000E-03 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.03204e-39 (1.00)	5.03204e-39 (1.00)
Formation of rad11	5.03203e-39 (1.000)	5.03203e-39 (1.000)
Formation of rad6	9.92181e-45 (1.97e-06)	9.92181e-45 (1.97e-06)
H-abstraction	3.33191e-55 (6.62e-17)	3.33191e-55 (6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.930103	0.930103	0.930103	0.930103
rad6	0.0594558	0.989559	0.0594558	0.989559
C2H2+PhCH2	0.00690216	0.996461	0.00690216	0.996461
PhCCH+CH3	0.00169381	0.998155	0.00169381	0.998155
PhCHCCH2+H	0.00108782	0.999243	0.00108782	0.999243
PhCCCH3+H	0.000641314	0.999884	0.000641314	0.999884
rad28	5.41076e-05	0.999938	5.41076e-05	0.999938
rad2	2.98876e-05	0.999968	2.98876e-05	0.999968
Ph+MeAc	7.06157e-06	0.999975	7.06157e-06	0.999975
rad26	6.46339e-06	0.999981	6.46339e-06	0.999981
rad8	5.13765e-06	0.999987	5.13765e-06	0.999987
rad7	4.39711e-06	0.999991	4.39711e-06	0.999991
rad9	2.31517e-06	0.999993	2.31517e-06	0.999993
rad1	1.89007e-06	0.999995	1.89007e-06	0.999995
rad10	1.50661e-06	0.999997	1.50661e-06	0.999997
PAH7+H	1.21308e-06	0.999998	1.21308e-06	0.999998
rad11	1.08432e-06	0.999999	1.08432e-06	0.999999
rad30	3.57039e-07	0.999999	3.57039e-07	0.999999
rad3	1.87130e-07	1.00000	1.87130e-07	1.00000
rad12	1.49922e-07	1.00000	1.49922e-07	1.00000
rad39	1.11651e-07	1.00000	1.11651e-07	1.00000
rad4	9.46180e-08	1.00000	9.46180e-08	1.00000
PAH9+H	7.17956e-08	1.00000	7.17956e-08	1.00000
rad15	6.27706e-08	1.00000	6.27706e-08	1.00000
rad35	3.81474e-08	1.00000	3.81474e-08	1.00000
rad13	2.38516e-08	1.00000	2.38516e-08	1.00000
Phenyl+Allene	1.92097e-08	1.00000	0.00000	1.00000
rad38	1.82985e-08	1.00000	1.82985e-08	1.00000
rad46	1.13632e-10	1.00000	1.13632e-10	1.00000
rad33	4.50473e-11	1.00000	4.50473e-11	1.00000
rad14	2.42505e-11	1.00000	2.42505e-11	1.00000
rad27	1.79378e-11	1.00000	1.79378e-11	1.00000
rad25	1.65362e-11	1.00000	1.65362e-11	1.00000
rad60syn	2.16794e-12	1.00000	2.16794e-12	1.00000
rad60anti	1.48120e-14	1.00000	1.48120e-14	1.00000
rad23	1.12196e-14	1.00000	1.12196e-14	1.00000
PhCH2CCH+H	1.10751e-15	1.00000	1.10751e-15	1.00000
rad31	5.43076e-16	1.00000	5.43076e-16	1.00000
rad37	1.26399e-16	1.00000	1.26399e-16	1.00000
rad20	1.07603e-16	1.00000	1.07603e-16	1.00000
rad45	8.98387e-17	1.00000	8.98387e-17	1.00000
rad21	7.91211e-17	1.00000	7.91211e-17	1.00000
Benzene+2-propynyl	6.62139e-17	1.00000	6.62139e-17	1.00000
rad22	9.62900e-18	1.00000	9.62900e-18	1.00000
rad36	5.59454e-18	1.00000	5.59454e-18	1.00000
rad18	4.75322e-19	1.00000	4.75322e-19	1.00000
rad5	9.14435e-20	1.00000	9.14435e-20	1.00000
rad24	4.24076e-24	1.00000	4.24076e-24	1.00000
PAH3+H	2.13055e-24	1.00000	2.13055e-24	1.00000
rad59	1.13635e-24	1.00000	1.13635e-24	1.00000
rad50	4.04099e-25	1.00000	4.04099e-25	1.00000
rad19syn	3.04174e-33	1.00000	3.04174e-33	1.00000
rad52	3.58763e-37	1.00000	3.58763e-37	1.00000
rad54	3.85786e-38	1.00000	3.85786e-38	1.00000
PAH10+CH3	2.53877e-38	1.00000	2.53877e-38	1.00000
rad43	5.82811e-39	1.00000	5.82811e-39	1.00000
rad62	1.80375e-41	1.00000	1.80375e-41	1.00000
rad51	2.00823e-44	1.00000	2.00823e-44	1.00000
rad70	2.30924e-47	1.00000	2.30924e-47	1.00000
PhcycC3H3_A+H	9.82934e-48	1.00000	9.82934e-48	1.00000
rad55	5.29022e-48	1.00000	5.29022e-48	1.00000
rad65	1.41763e-49	1.00000	1.41763e-49	1.00000
rad58	3.31510e-51	1.00000	3.31510e-51	1.00000
PAH1+H	4.67267e-53	1.00000	4.67267e-53	1.00000
rad34	3.07658e-55	1.00000	3.07658e-55	1.00000

rad42	2.24135e-59	1.00000	2.24135e-59	1.00000
rad41	2.83636e-60	1.00000	2.83636e-60	1.00000
rad47	4.14302e-62	1.00000	4.14302e-62	1.00000

0.100000000E-03 Pa, 40.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	9.35697e-33	(1.00)	9.35697e-33	(1.00)
Formation of rad11	9.35644e-33	(1.000)	9.35644e-33	(1.000)
Formation of rad6	5.26139e-37	(5.62e-05)	5.26138e-37	(5.62e-05)
H-abstraction	1.44763e-44	(1.55e-12)	1.44763e-44	(1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.963193	0.963193	0.963193	0.963193
rad6	0.0254360	0.988629	0.0254360	0.988629
C2H2+PhCH2	0.00747304	0.996102	0.00747304	0.996102
PhCCH+CH3	0.00190287	0.998005	0.00190287	0.998005
PhCHCCH2+H	0.00121213	0.999217	0.00121213	0.999217
PhCCCH3+H	0.000719357	0.999936	0.000719357	0.999936
rad28	2.46212e-05	0.999961	2.46212e-05	0.999961
rad2	1.22915e-05	0.999973	1.22915e-05	0.999973
Ph+MeAc	8.68473e-06	0.999982	8.68473e-06	0.999982
rad8	5.85760e-06	0.999988	5.85760e-06	0.999988
rad26	2.80127e-06	0.999991	2.80127e-06	0.999991
rad9	2.67414e-06	0.999993	2.67414e-06	0.999993
rad7	1.86694e-06	0.999995	1.86694e-06	0.999995
PAH7+H	1.45257e-06	0.999997	1.45257e-06	0.999997
rad1	7.78256e-07	0.999997	7.78256e-07	0.999997
rad10	6.18257e-07	0.999998	6.18257e-07	0.999998
rad11	4.59742e-07	0.999999	4.59742e-07	0.999999
rad30	3.91744e-07	0.999999	3.91744e-07	0.999999
rad12	1.77708e-07	0.999999	1.77708e-07	0.999999
rad39	1.38762e-07	0.999999	1.38762e-07	0.999999
PAH9+H	7.91013e-08	0.999999	7.91013e-08	0.999999
rad3	7.68750e-08	0.999999	7.68750e-08	0.999999
rad15	6.95187e-08	0.999999	6.95187e-08	0.999999
rad35	4.18214e-08	0.999999	4.18214e-08	0.999999
rad4	3.88821e-08	1.000000	3.88821e-08	1.000000
Phenyl+Allene	3.07805e-08	1.000000	0.000000	1.000000
rad38	2.02492e-08	1.000000	2.02492e-08	1.000000
rad13	1.02134e-08	1.000000	1.02134e-08	1.000000
rad46	1.29342e-10	1.000000	1.29342e-10	1.000000
rad33	1.92981e-11	1.000000	1.92981e-11	1.000000
rad14	1.06122e-11	1.000000	1.06122e-11	1.000000
rad27	7.56093e-12	1.000000	7.56093e-12	1.000000
rad25	7.21664e-12	1.000000	7.21664e-12	1.000000
rad60syn	2.59253e-12	1.000000	2.59253e-12	1.000000
Benzene+2-propynyl	1.54712e-12	1.000000	1.54712e-12	1.000000
rad60anti	2.47698e-14	1.000000	2.47698e-14	1.000000
rad23	1.89404e-15	1.000000	1.89404e-15	1.000000
PhCH2CCH+H	1.06107e-15	1.000000	1.06107e-15	1.000000
rad31	2.25326e-16	1.000000	2.25326e-16	1.000000
rad37	1.15262e-16	1.000000	1.15262e-16	1.000000
rad20	4.70047e-17	1.000000	4.70047e-17	1.000000
rad21	3.45906e-17	1.000000	3.45906e-17	1.000000
rad45	1.46566e-17	1.000000	1.46566e-17	1.000000
rad22	2.16172e-18	1.000000	2.16172e-18	1.000000
rad36	9.12160e-19	1.000000	9.12160e-19	1.000000
rad18	2.03127e-19	1.000000	2.03127e-19	1.000000
rad5	8.11724e-20	1.000000	8.11724e-20	1.000000
PAH3+H	1.77955e-24	1.000000	1.77955e-24	1.000000
rad24	1.41712e-24	1.000000	1.41712e-24	1.000000
rad59	9.49949e-25	1.000000	9.49949e-25	1.000000
rad50	3.46854e-25	1.000000	3.46854e-25	1.000000
rad19syn	2.33309e-33	1.000000	2.33309e-33	1.000000
rad52	2.75149e-37	1.000000	2.75149e-37	1.000000
rad54	2.98400e-38	1.000000	2.98400e-38	1.000000
PAH10+CH3	1.97736e-38	1.000000	1.97736e-38	1.000000
rad43	4.54176e-39	1.000000	4.54176e-39	1.000000
rad62	1.41477e-41	1.000000	1.41477e-41	1.000000
rad51	1.56806e-44	1.000000	1.56806e-44	1.000000
rad70	1.86229e-47	1.000000	1.86229e-47	1.000000
PhcycC3H3_A+H	7.95447e-48	1.000000	7.95447e-48	1.000000
rad55	4.27959e-48	1.000000	4.27959e-48	1.000000
rad65	1.13086e-49	1.000000	1.13086e-49	1.000000
rad58	2.69093e-51	1.000000	2.69093e-51	1.000000
PAH1+H	3.90739e-53	1.000000	3.90739e-53	1.000000
rad34	2.60076e-55	1.000000	2.60076e-55	1.000000

rad42	1.95184e-59	1.000000	1.95184e-59	1.000000
rad41	2.52410e-60	1.000000	2.52410e-60	1.000000
rad47	2.32108e-62	1.000000	2.32108e-62	1.000000

0.100000000E-03 Pa, 50.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.52690e-29 (1.00)	5.52690e-29 (1.00)
Formation of rad11	5.52459e-29 (1.000)	5.52459e-29 (1.000)
Formation of rad6	2.30840e-32 (0.000418)	2.30840e-32 (0.000418)
H-abstraction	3.35357e-38 (6.07e-10)	3.35357e-38 (6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.975263	0.975263	0.975263	0.975263
rad6	0.0126713	0.987934	0.0126713	0.987934
C2H2+PhCH2	0.00786649	0.995801	0.00786649	0.995801
PhCCH+CH3	0.00206803	0.997869	0.00206803	0.997869
PhCHCCH2+H	0.00130654	0.999175	0.00130654	0.999175
PhCCCH3+H	0.000780139	0.999955	0.000780139	0.999955
rad28	1.28571e-05	0.999968	1.28571e-05	0.999968
Ph+MeAc	1.04514e-05	0.999979	1.04514e-05	0.999979
rad8	6.45854e-06	0.999985	6.45854e-06	0.999985
rad2	5.96665e-06	0.999991	5.96666e-06	0.999991
rad9	3.00566e-06	0.999994	3.00566e-06	0.999994
PAH7+H	1.66909e-06	0.999996	1.66909e-06	0.999996
rad26	1.41609e-06	0.999997	1.41609e-06	0.999997
rad7	9.26834e-07	0.999998	9.26834e-07	0.999998
rad30	4.17702e-07	0.999999	4.17702e-07	0.999999
rad1	3.78454e-07	0.999999	3.78454e-07	0.999999
rad10	3.00025e-07	0.999999	3.00025e-07	0.999999
rad11	2.28050e-07	1.000000	2.28050e-07	1.000000
rad12	2.03239e-07	1.000000	2.03239e-07	1.000000
rad39	1.66312e-07	1.000000	1.66312e-07	1.000000
PAH9+H	8.47263e-08	1.000000	8.47263e-08	1.000000
rad15	7.48211e-08	1.000000	7.48211e-08	1.000000
Phenyl+Allene	5.14158e-08	1.000000	0.000000	1.000000
rad35	4.45717e-08	1.000000	4.45717e-08	1.000000
rad3	3.73223e-08	1.000000	3.73223e-08	1.000000
rad38	2.17857e-08	1.000000	2.17857e-08	1.000000
rad4	1.88854e-08	1.000000	1.88854e-08	1.000000
rad13	5.09497e-09	1.000000	5.09497e-09	1.000000
Benzene+2-propynyl	6.06773e-10	1.000000	6.06773e-10	1.000000
rad46	1.43439e-10	1.000000	1.43439e-10	1.000000
rad33	9.63238e-12	1.000000	9.63238e-12	1.000000
rad14	5.41742e-12	1.000000	5.41742e-12	1.000000
rad27	3.74520e-12	1.000000	3.74520e-12	1.000000
rad25	3.66714e-12	1.000000	3.66714e-12	1.000000
rad60syn	3.10107e-12	1.000000	3.10107e-12	1.000000
rad60anti	6.57580e-14	1.000000	6.57580e-14	1.000000
PhCH2CCH+H	1.95070e-15	1.000000	1.95070e-15	1.000000
rad23	5.14718e-16	1.000000	5.14718e-16	1.000000
rad37	2.00160e-16	1.000000	2.00160e-16	1.000000
rad31	1.10695e-16	1.000000	1.10695e-16	1.000000
rad20	2.41444e-17	1.000000	2.41444e-17	1.000000
rad21	1.77863e-17	1.000000	1.77863e-17	1.000000
rad45	3.89508e-18	1.000000	3.89508e-18	1.000000
rad22	7.30669e-19	1.000000	7.30669e-19	1.000000
rad36	2.42222e-19	1.000000	2.42222e-19	1.000000
rad5	1.38874e-19	1.000000	1.38874e-19	1.000000
rad18	1.03349e-19	1.000000	1.03349e-19	1.000000
PAH3+H	2.97302e-24	1.000000	2.97302e-24	1.000000
rad59	1.58719e-24	1.000000	1.58719e-24	1.000000
rad24	6.76025e-25	1.000000	6.76025e-25	1.000000
rad50	5.83910e-25	1.000000	5.83910e-25	1.000000
rad19syn	4.02129e-33	1.000000	4.02129e-33	1.000000
rad52	4.71818e-37	1.000000	4.71818e-37	1.000000
rad54	5.32147e-38	1.000000	5.32147e-38	1.000000
PAH10+CH3	3.59206e-38	1.000000	3.59206e-38	1.000000
rad43	8.25508e-39	1.000000	8.25508e-39	1.000000
rad62	2.60983e-41	1.000000	2.60983e-41	1.000000
rad51	2.85879e-44	1.000000	2.85879e-44	1.000000
rad70	3.60110e-47	1.000000	3.60110e-47	1.000000
PhcycC3H3_A+H	1.54703e-47	1.000000	1.54703e-47	1.000000
rad55	8.31820e-48	1.000000	8.31820e-48	1.000000
rad65	2.14696e-49	1.000000	2.14696e-49	1.000000
rad58	5.25967e-51	1.000000	5.25967e-51	1.000000
PAH1+H	8.02211e-53	1.000000	8.02211e-53	1.000000
rad34	5.41750e-55	1.000000	5.41750e-55	1.000000

rad42	4.33233e-59	1.00000	4.33233e-59	1.00000
rad41	6.04574e-60	1.00000	6.04574e-60	1.00000
rad47	3.57324e-62	1.00000	3.57324e-62	1.00000

0.100000000E-03 Pa, 60.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.83429e-26	(1.00)	1.83429e-26	(1.00)
Formation of rad11	1.83139e-26	(0.998)	1.83139e-26	(0.998)
Formation of rad6	2.90471e-29	(0.00158)	2.90471e-29	(0.00158)
H-abstraction	5.71259e-34	(3.11e-08)	5.71259e-34	(3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.980353	0.980353	0.980353	0.980353
C2H2+PhCH2	0.00820035	0.988553	0.00820035	0.988553
rad6	0.00695857	0.995512	0.00695857	0.995512
PhCCH+CH3	0.00222202	0.997734	0.00222202	0.997734
PhCHCCH2+H	0.00139205	0.999126	0.00139205	0.999126
PhCCCH3+H	0.000836127	0.999962	0.000836127	0.999962
Ph+MeAc	1.25208e-05	0.999975	1.25208e-05	0.999975
rad28	7.34195e-06	0.999982	7.34195e-06	0.999982
rad8	7.04141e-06	0.999989	7.04141e-06	0.999989
rad9	3.35179e-06	0.999992	3.35179e-06	0.999992
rad2	3.21549e-06	0.999996	3.21549e-06	0.999996
PAH7+H	1.89226e-06	0.999997	1.89226e-06	0.999997
rad26	7.89271e-07	0.999998	7.89271e-07	0.999998
rad7	5.08159e-07	0.999999	5.08159e-07	0.999999
rad30	4.41080e-07	0.999999	4.41080e-07	0.999999
rad12	2.29599e-07	0.999999	2.29599e-07	0.999999
rad1	2.04394e-07	1.000000	2.04394e-07	1.000000
rad39	1.97284e-07	1.000000	1.97284e-07	1.000000
rad10	1.61768e-07	1.000000	1.61768e-07	1.000000
rad11	1.24971e-07	1.000000	1.24971e-07	1.000000
PAH9+H	8.99134e-08	1.000000	8.99134e-08	1.000000
Phenyl+Allene	8.42993e-08	1.000000	0.000000	1.000000
rad15	7.97703e-08	1.000000	7.97703e-08	1.000000
rad35	4.70563e-08	1.000000	4.70563e-08	1.000000
Benzene+2-propynyl	3.11432e-08	1.000000	3.11432e-08	1.000000
rad38	2.32259e-08	1.000000	2.32259e-08	1.000000
rad3	2.01257e-08	1.000000	2.01257e-08	1.000000
rad4	1.01894e-08	1.000000	1.01894e-08	1.000000
rad13	2.80271e-09	1.000000	2.80271e-09	1.000000
rad46	1.57976e-10	1.000000	1.57976e-10	1.000000
rad33	5.30238e-12	1.000000	5.30238e-12	1.000000
rad60syn	3.78654e-12	1.000000	3.78654e-12	1.000000
rad14	3.05037e-12	1.000000	3.05037e-12	1.000000
rad25	2.05416e-12	1.000000	2.05416e-12	1.000000
rad27	2.05397e-12	1.000000	2.05397e-12	1.000000
rad60anti	1.65298e-13	1.000000	1.65298e-13	1.000000
PhCH2CCH+H	1.37802e-14	1.000000	1.37802e-14	1.000000
rad37	1.22457e-15	1.000000	1.22457e-15	1.000000
rad23	1.82759e-16	1.000000	1.82759e-16	1.000000
rad31	6.05418e-17	1.000000	6.05418e-17	1.000000
rad20	1.37672e-17	1.000000	1.37672e-17	1.000000
rad21	1.01545e-17	1.000000	1.01545e-17	1.000000
rad45	1.36083e-18	1.000000	1.36083e-18	1.000000
rad5	7.89184e-19	1.000000	7.89184e-19	1.000000
rad22	3.09055e-19	1.000000	3.09055e-19	1.000000
rad36	8.45556e-20	1.000000	8.45556e-20	1.000000
rad18	5.86683e-20	1.000000	5.86683e-20	1.000000
PAH3+H	1.39699e-23	1.000000	1.39699e-23	1.000000
rad59	7.46948e-24	1.000000	7.46948e-24	1.000000
rad50	2.99049e-24	1.000000	2.99049e-24	1.000000
rad24	3.82842e-25	1.000000	3.82842e-25	1.000000
rad19syn	1.78014e-32	1.000000	1.78014e-32	1.000000
rad52	2.07254e-36	1.000000	2.07254e-36	1.000000
rad54	2.47277e-37	1.000000	2.47277e-37	1.000000
PAH10+CH3	1.73342e-37	1.000000	1.73342e-37	1.000000
rad43	3.98653e-38	1.000000	3.98653e-38	1.000000
rad62	1.28194e-40	1.000000	1.28194e-40	1.000000
rad51	1.36858e-43	1.000000	1.36858e-43	1.000000
rad70	1.85930e-46	1.000000	1.85930e-46	1.000000
PhcycC3H3_A+H	8.04614e-47	1.000000	8.04614e-47	1.000000
rad55	4.32290e-47	1.000000	4.32290e-47	1.000000
rad65	1.08334e-48	1.000000	1.08334e-48	1.000000
rad58	2.75284e-50	1.000000	2.75284e-50	1.000000
PAH1+H	4.47275e-52	1.000000	4.47275e-52	1.000000
rad34	3.07135e-54	1.000000	3.07135e-54	1.000000

rad42	2.89075e-58	1.00000	2.89075e-58	1.00000
rad41	5.14282e-59	1.00000	5.14282e-59	1.00000
rad47	1.58408e-61	1.00000	1.58408e-61	1.00000

0.100000000E-03 Pa, 70.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.17336e-24	(1.00)	1.17336e-24	(1.00)
Formation of rad11	1.16857e-24	(0.996)	1.16857e-24	(0.996)
Formation of rad6	4.79505e-27	(0.00409)	4.79505e-27	(0.00409)
H-abstraction	5.89821e-31	(5.03e-07)	5.89821e-31	(5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.982609	0.982609	0.982609	0.982609
C2H2+PhCH2	0.00851552	0.991124	0.00851552	0.991124
rad6	0.00409213	0.995216	0.00409213	0.995216
PhCCH+CH3	0.00237731	0.997593	0.00237731	0.997593
PhCHCCH2+H	0.00147645	0.999070	0.00147645	0.999070
PhCCCH3+H	0.000892013	0.999962	0.000892013	0.999962
Ph+MeAc	1.50080e-05	0.999977	1.50080e-05	0.999977
rad8	7.64638e-06	0.999985	7.64638e-06	0.999985
rad28	4.46570e-06	0.999989	4.46570e-06	0.999989
rad9	3.73166e-06	0.999993	3.73166e-06	0.999993
PAH7+H	2.13584e-06	0.999995	2.13584e-06	0.999995
rad2	1.86362e-06	0.999997	1.86362e-06	0.999997
Benzene+2-propynyl	5.02676e-07	0.999997	5.02676e-07	0.999997
rad26	4.70934e-07	0.999998	4.70934e-07	0.999998
rad30	4.64115e-07	0.999998	4.64116e-07	0.999998
rad7	2.98650e-07	0.999999	2.98650e-07	0.999999
rad12	2.58287e-07	0.999999	2.58288e-07	0.999999
rad39	2.33451e-07	0.999999	2.33451e-07	0.999999
Phenyl+Allene	1.34021e-07	0.999999	0.00000	0.999999
rad1	1.18757e-07	0.999999	1.18757e-07	0.999999
PAH9+H	9.51250e-08	0.999999	9.51250e-08	0.999999
rad10	9.38448e-08	0.999999	9.38448e-08	0.999999
rad15	8.47780e-08	1.000000	8.47780e-08	0.999999
rad11	7.34236e-08	1.000000	7.34236e-08	0.999999
rad35	4.95149e-08	1.000000	4.95149e-08	1.000000
rad38	2.46904e-08	1.000000	2.46904e-08	1.000000
rad3	1.16742e-08	1.000000	1.16742e-08	1.000000
rad4	5.91424e-09	1.000000	5.91424e-09	1.000000
rad13	1.65140e-09	1.000000	1.65140e-09	1.000000
rad46	1.73903e-10	1.000000	1.73903e-10	1.000000
rad60syn	4.69485e-12	1.000000	4.69485e-12	1.000000
rad33	3.12671e-12	1.000000	3.12671e-12	1.000000
rad14	1.83962e-12	1.000000	1.83962e-12	1.000000
rad25	1.23220e-12	1.000000	1.23220e-12	1.000000
rad27	1.20926e-12	1.000000	1.20926e-12	1.000000
rad60anti	3.46015e-13	1.000000	3.46015e-13	1.000000
PhCH2CCH+H	1.86141e-13	1.000000	1.86141e-13	1.000000
rad37	2.34873e-14	1.000000	2.34873e-14	1.000000
rad23	7.71270e-17	1.000000	7.71270e-17	1.000000
rad31	3.57022e-17	1.000000	3.57022e-17	1.000000
rad5	1.85796e-17	1.000000	1.85797e-17	1.000000
rad20	8.44970e-18	1.000000	8.44970e-18	1.000000
rad21	6.24132e-18	1.000000	6.24132e-18	1.000000
rad45	5.67202e-19	1.000000	5.67202e-19	1.000000
rad22	1.50805e-19	1.000000	1.50805e-19	1.000000
rad18	3.59384e-20	1.000000	3.59384e-20	1.000000
rad36	3.52156e-20	1.000000	3.52156e-20	1.000000
PAH3+H	4.70408e-22	1.000000	4.70408e-22	1.000000
rad59	2.51048e-22	1.000000	2.51048e-22	1.000000
rad50	8.76831e-23	1.000000	8.76831e-23	1.000000
rad24	2.40579e-25	1.000000	2.40579e-25	1.000000
rad19syn	2.68410e-31	1.000000	2.68410e-31	1.000000
rad52	3.09631e-35	1.000000	3.09631e-35	1.000000
rad54	3.94924e-36	1.000000	3.94924e-36	1.000000
PAH10+CH3	2.86840e-36	1.000000	2.86840e-36	1.000000
rad43	6.60023e-37	1.000000	6.60023e-37	1.000000
rad62	2.18335e-39	1.000000	2.18336e-39	1.000000
rad51	2.26407e-42	1.000000	2.26407e-42	1.000000
rad70	3.35669e-45	1.000000	3.35669e-45	1.000000
PhcycC3H3_A+H	1.46505e-45	1.000000	1.46505e-45	1.000000
rad55	7.86365e-46	1.000000	7.86365e-46	1.000000
rad65	1.90576e-47	1.000000	1.90577e-47	1.000000
rad58	5.04930e-49	1.000000	5.04930e-49	1.000000
PAH1+H	8.86362e-51	1.000000	8.86362e-51	1.000000
rad34	6.19416e-53	1.000000	6.19416e-53	1.000000

rad42	8.24101e-57	1.000000	8.24101e-57	1.000000
rad41	2.12583e-57	1.000000	2.12583e-57	1.000000
rad47	2.58330e-60	1.000000	2.58330e-60	1.000000

0.100000000E-03 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.68112e-23 (1.00)	2.68112e-23 (1.00)
Formation of rad11	2.65890e-23 (0.992)	2.65889e-23 (0.992)
Formation of rad6	2.22189e-25 (0.00829)	2.22189e-25 (0.00829)
H-abstraction	1.05871e-28 (3.95e-06)	1.05871e-28 (3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.983539	0.983539	0.983539	0.983539
C2H2+PhCH2	0.00883154	0.992371	0.00883154	0.992371
PhCCH+CH3	0.00254100	0.994912	0.00254100	0.994912
rad6	0.00253148	0.997443	0.00253148	0.997443
PhCHCCH2+H	0.00156390	0.999007	0.00156390	0.999007
PhCCCH3+H	0.000950375	0.999957	0.000950375	0.999957
Ph+MeAc	1.80439e-05	0.999975	1.80439e-05	0.999975
rad8	8.29826e-06	0.999984	8.29826e-06	0.999984
rad9	4.16028e-06	0.999988	4.16028e-06	0.999988
Benzene+2-propynyl	3.94877e-06	0.999992	3.94877e-06	0.999992
rad28	2.84622e-06	0.999995	2.84623e-06	0.999995
PAH7+H	2.41055e-06	0.999997	2.41055e-06	0.999997
rad2	1.13950e-06	0.999998	1.13950e-06	0.999998
rad30	4.87987e-07	0.999999	4.87987e-07	0.999999
rad26	2.95455e-07	0.999999	2.95455e-07	0.999999
rad12	2.90504e-07	0.999999	2.90504e-07	0.999999
rad39	2.76610e-07	1.000000	2.76610e-07	1.000000
Phenyl+Allene	2.07204e-07	1.000000	0.000000	1.000000
rad7	1.84750e-07	1.000000	1.84750e-07	1.000000
PAH9+H	1.00620e-07	1.000000	1.00620e-07	1.000000
rad15	9.00779e-08	1.000000	9.00779e-08	1.000000
rad1	7.28157e-08	1.000000	7.28157e-08	1.000000
rad10	5.74489e-08	1.000000	5.74489e-08	1.000000
rad35	5.20749e-08	1.000000	5.20749e-08	1.000000
rad11	4.54132e-08	1.000000	4.54132e-08	1.000000
rad38	2.62493e-08	1.000000	2.62493e-08	1.000000
rad3	7.14460e-09	1.000000	7.14460e-09	1.000000
rad4	3.62213e-09	1.000000	3.62213e-09	1.000000
rad13	1.02378e-09	1.000000	1.02378e-09	1.000000
rad46	1.91969e-10	1.000000	1.91969e-10	1.000000
rad60syn	5.88176e-12	1.000000	5.88176e-12	1.000000
rad33	1.94007e-12	1.000000	1.94007e-12	1.000000
PhCH2CCH+H	1.70747e-12	1.000000	1.70747e-12	1.000000
rad14	1.16719e-12	1.000000	1.16719e-12	1.000000
rad25	7.77594e-13	1.000000	7.77594e-13	1.000000
rad27	7.50118e-13	1.000000	7.50118e-13	1.000000
rad60anti	6.27511e-13	1.000000	6.27512e-13	1.000000
rad37	3.11086e-13	1.000000	3.11086e-13	1.000000
rad5	3.36965e-16	1.000000	3.36965e-16	1.000000
rad23	3.67406e-17	1.000000	3.67406e-17	1.000000
rad31	2.22667e-17	1.000000	2.22667e-17	1.000000
rad20	5.47745e-18	1.000000	5.47745e-18	1.000000
rad21	4.05228e-18	1.000000	4.05228e-18	1.000000
rad45	2.67529e-19	1.000000	2.67529e-19	1.000000
rad22	8.12606e-20	1.000000	8.12607e-20	1.000000
rad18	2.32829e-20	1.000000	2.32829e-20	1.000000
PAH3+H	1.82050e-20	1.000000	1.82050e-20	1.000000
rad36	1.65985e-20	1.000000	1.65985e-20	1.000000
rad59	9.48788e-21	1.000000	9.48788e-21	1.000000
rad50	2.31957e-21	1.000000	2.31957e-21	1.000000
rad24	1.62381e-25	1.000000	1.62381e-25	1.000000
rad19syn	3.67585e-28	1.000000	3.67585e-28	1.000000
rad52	3.88325e-32	1.000000	3.88325e-32	1.000000
rad54	3.67583e-34	1.000000	3.67583e-34	1.000000
PAH10+CH3	2.56761e-34	1.000000	2.56761e-34	1.000000
rad43	5.90601e-35	1.000000	5.90601e-35	1.000000
rad62	2.06542e-37	1.000000	2.06543e-37	1.000000
rad51	2.18771e-40	1.000000	2.18771e-40	1.000000
rad70	3.55677e-43	1.000000	3.55677e-43	1.000000
PhcycC3H3_A+H	1.56634e-43	1.000000	1.56634e-43	1.000000
rad55	8.39849e-44	1.000000	8.39849e-44	1.000000
rad65	1.96525e-45	1.000000	1.96525e-45	1.000000
rad58	5.43989e-47	1.000000	5.43989e-47	1.000000
PAH1+H	1.03877e-48	1.000000	1.03877e-48	1.000000
rad34	7.37306e-51	1.000000	7.37306e-51	1.000000

rad42	1.19301e-54	1.00000	1.19301e-54	1.00000
rad41	3.51802e-55	1.00000	3.51802e-55	1.00000
rad47	2.55018e-58	1.00000	2.55019e-58	1.00000

0.100000000E-03 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.08379e-22 (1.00)	3.08379e-22 (1.00)
Formation of rad11	3.03962e-22 (0.986)	3.03962e-22 (0.986)
Formation of rad6	4.41076e-24 (0.0143)	4.41076e-24 (0.0143)
H-abstraction	5.92916e-27 (1.92e-05)	5.92916e-27 (1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.983762	0.983762	0.983762	0.983762
C2H2+PhCH2	0.00915992	0.992922	0.00915992	0.992922
PhCCH+CH3	0.00271809	0.995640	0.00271809	0.995640
PhCHCCH2+H	0.00165715	0.997297	0.00165715	0.997297
rad6	0.00162780	0.998925	0.00162780	0.998925
PhCCCH3+H	0.00101296	0.999938	0.00101296	0.999938
Ph+MeAc	2.17808e-05	0.999960	2.17808e-05	0.999960
Benzene+2-propynyl	1.92269e-05	0.999979	1.92269e-05	0.999979
rad8	9.01627e-06	0.999988	9.01627e-06	0.999988
rad9	4.65202e-06	0.999993	4.65203e-06	0.999993
PAH7+H	2.72667e-06	0.999995	2.72667e-06	0.999995
rad28	1.87993e-06	0.999997	1.87993e-06	0.999997
rad2	7.25676e-07	0.999998	7.25677e-07	0.999998
rad30	5.13483e-07	0.999999	5.13483e-07	0.999999
rad39	3.28762e-07	0.999999	3.28762e-07	0.999999
rad12	3.27339e-07	0.999999	3.27339e-07	0.999999
Phenyl+Allene	3.12822e-07	0.999999	0.00000	0.999999
rad26	1.92580e-07	1.000000	1.92580e-07	0.999999
rad7	1.18848e-07	1.000000	1.18848e-07	0.999999
PAH9+H	1.06583e-07	1.000000	1.06583e-07	1.000000
rad15	9.58406e-08	1.000000	9.58406e-08	1.000000
rad35	5.48231e-08	1.000000	5.48231e-08	1.000000
rad1	4.65147e-08	1.000000	4.65147e-08	1.000000
rad10	3.66375e-08	1.000000	3.66375e-08	1.000000
rad11	2.92113e-08	1.000000	2.92113e-08	1.000000
rad38	2.79555e-08	1.000000	2.79555e-08	1.000000
rad3	4.55437e-09	1.000000	4.55437e-09	1.000000
rad4	2.31080e-09	1.000000	2.31080e-09	1.000000
rad13	6.59823e-10	1.000000	6.59823e-10	1.000000
rad46	2.12910e-10	1.000000	2.12910e-10	1.000000
PhCH2CCH+H	1.03201e-11	1.000000	1.03201e-11	1.000000
rad60syn	7.43088e-12	1.000000	7.43088e-12	1.000000
rad37	2.40286e-12	1.000000	2.40286e-12	1.000000
rad33	1.25157e-12	1.000000	1.25157e-12	1.000000
rad60anti	1.03317e-12	1.000000	1.03317e-12	1.000000
rad14	7.69812e-13	1.000000	7.69812e-13	1.000000
rad25	5.10135e-13	1.000000	5.10135e-13	1.000000
rad27	4.84204e-13	1.000000	4.84204e-13	1.000000
rad5	3.49024e-15	1.000000	3.49024e-15	1.000000
rad23	1.91448e-17	1.000000	1.91448e-17	1.000000
rad31	1.45015e-17	1.000000	1.45015e-17	1.000000
rad20	3.70303e-18	1.000000	3.70303e-18	1.000000
rad21	2.74426e-18	1.000000	2.74426e-18	1.000000
PAH3+H	3.50576e-19	1.000000	3.50576e-19	1.000000
rad59	1.76480e-19	1.000000	1.76480e-19	1.000000
rad45	1.38278e-19	1.000000	1.38278e-19	1.000000
rad22	4.70886e-20	1.000000	4.70886e-20	1.000000
rad50	3.26744e-20	1.000000	3.26744e-20	1.000000
rad18	1.57426e-20	1.000000	1.57426e-20	1.000000
rad36	8.57462e-21	1.000000	8.57462e-21	1.000000
rad19syn	1.47273e-25	1.000000	1.47273e-25	1.000000
rad24	1.15543e-25	1.000000	1.15543e-25	1.000000
rad52	1.24091e-29	1.000000	1.24091e-29	1.000000
rad54	6.93872e-30	1.000000	6.93872e-30	1.000000
PAH10+CH3	3.98935e-30	1.000000	3.98935e-30	1.000000
rad43	9.99725e-31	1.000000	9.99726e-31	1.000000
rad62	7.53845e-35	1.000000	7.53846e-35	1.000000
rad51	8.22400e-38	1.000000	8.22400e-38	1.000000
rad70	1.47089e-40	1.000000	1.47089e-40	1.000000
PhcycC3H3_A+H	6.53631e-41	1.000000	6.53631e-41	1.000000
rad55	3.50087e-41	1.000000	3.50087e-41	1.000000
rad65	7.89627e-43	1.000000	7.89627e-43	1.000000
rad58	2.28749e-44	1.000000	2.28750e-44	1.000000
PAH1+H	4.73915e-46	1.000000	4.73915e-46	1.000000
rad34	3.41565e-48	1.000000	3.41565e-48	1.000000

rad42	5.34942e-52	1.00000	5.34942e-52	1.000000
rad41	1.51600e-52	1.00000	1.51600e-52	1.000000
rad47	9.98914e-56	1.00000	9.98914e-56	1.000000

0.100000000E-03 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14497e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.983546	0.983546	0.983546	0.983546
C2H2+PhCH2	0.00950814	0.993054	0.00950815	0.993054
PhCCH+CH3	0.00291236	0.995967	0.00291236	0.995967
PhCHCCH2+H	0.00175813	0.997725	0.00175813	0.997725
PhCCCH3+H	0.00108104	0.998806	0.00108104	0.998806
rad6	0.00107886	0.999885	0.00107886	0.999885
Benzene+2-propynyl	6.70630e-05	0.999952	6.70630e-05	0.999952
Ph+MeAc	2.63885e-05	0.999978	2.63885e-05	0.999978
rad8	9.81626e-06	0.999988	9.81626e-06	0.999988
rad9	5.22109e-06	0.999993	5.22110e-06	0.999993
PAH7+H	3.09449e-06	0.999996	3.09449e-06	0.999996
rad28	1.27675e-06	0.999997	1.27675e-06	0.999997
rad30	5.41185e-07	0.999998	5.41186e-07	0.999998
rad2	4.77086e-07	0.999998	4.77086e-07	0.999998
Phenyl+Allene	4.62501e-07	0.999999	0.00000	0.999998
rad39	3.92111e-07	0.999999	3.92111e-07	0.999999
rad12	3.69802e-07	1.000000	3.69802e-07	0.999999
rad26	1.29320e-07	1.000000	1.29320e-07	0.999999
PAH9+H	1.13162e-07	1.000000	1.13163e-07	0.999999
rad15	1.02203e-07	1.000000	1.02203e-07	1.000000
rad7	7.88244e-08	1.000000	7.88244e-08	1.000000
rad35	5.78253e-08	1.000000	5.78254e-08	1.000000
rad1	3.06835e-08	1.000000	3.06835e-08	1.000000
rad38	2.98527e-08	1.000000	2.98527e-08	1.000000
rad10	2.41231e-08	1.000000	2.41231e-08	1.000000
rad11	1.93741e-08	1.000000	1.93741e-08	1.000000
rad3	2.99733e-09	1.000000	2.99733e-09	1.000000
rad4	1.52213e-09	1.000000	1.52213e-09	1.000000
rad13	4.38383e-10	1.000000	4.38383e-10	1.000000
rad46	2.37485e-10	1.000000	2.37485e-10	1.000000
PhCH2CCH+H	4.54898e-11	1.000000	4.54898e-11	1.000000
rad37	1.22767e-11	1.000000	1.22767e-11	1.000000
rad60syn	9.45473e-12	1.000000	9.45473e-12	1.000000
rad60anti	1.59524e-12	1.000000	1.59524e-12	1.000000
rad33	8.32378e-13	1.000000	8.32378e-13	1.000000
rad14	5.23375e-13	1.000000	5.23375e-13	1.000000
rad25	3.45017e-13	1.000000	3.45017e-13	1.000000
rad27	3.22428e-13	1.000000	3.22428e-13	1.000000
rad5	2.33641e-14	1.000000	2.33641e-14	1.000000
rad23	1.06912e-17	1.000000	1.06912e-17	1.000000
rad31	9.77547e-18	1.000000	9.77548e-18	1.000000
PAH3+H	3.82932e-18	1.000000	3.82932e-18	1.000000
rad20	2.58774e-18	1.000000	2.58774e-18	1.000000
rad21	1.92127e-18	1.000000	1.92128e-18	1.000000
rad59	1.85146e-18	1.000000	1.85146e-18	1.000000
rad50	2.79794e-19	1.000000	2.79794e-19	1.000000
rad45	7.67046e-20	1.000000	7.67046e-20	1.000000
rad22	2.88395e-20	1.000000	2.88395e-20	1.000000
rad18	1.10067e-20	1.000000	1.10067e-20	1.000000
rad36	4.75452e-21	1.000000	4.75453e-21	1.000000
rad19syn	1.69555e-23	1.000000	1.69555e-23	1.000000
rad24	8.56495e-26	1.000000	8.56496e-26	1.000000
rad54	3.44938e-27	1.000000	3.44938e-27	1.000000
PAH10+CH3	2.22984e-27	1.000000	2.22984e-27	1.000000
rad52	1.20299e-27	1.000000	1.20299e-27	1.000000
rad43	5.30877e-28	1.000000	5.30877e-28	1.000000
rad62	6.93886e-30	1.000000	6.93886e-30	1.000000
rad51	7.66184e-33	1.000000	7.66185e-33	1.000000
rad70	1.31309e-37	1.000000	1.31309e-37	1.000000
PhcycC3H3_A+H	5.88999e-38	1.000000	5.88999e-38	1.000000
rad55	3.15103e-38	1.000000	3.15104e-38	1.000000
rad65	6.83517e-40	1.000000	6.83517e-40	1.000000
rad58	2.07758e-41	1.000000	2.07758e-41	1.000000
PAH1+H	4.67485e-43	1.000000	4.67485e-43	1.000000
rad34	3.42191e-45	1.000000	3.42191e-45	1.000000

rad42	4.78161e-49	1.00000	4.78161e-49	1.000000
rad41	1.18267e-49	1.00000	1.18267e-49	1.000000
rad47	8.55596e-53	1.00000	8.55597e-53	1.000000

0.100000000E-03 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06526e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44007e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.982996	0.982996	0.982996	0.982996
C2H2+PhCH2	0.00988122	0.992878	0.00988123	0.992878
PhCCH+CH3	0.00312676	0.996004	0.00312676	0.996004
PhCHCCH2+H	0.00186824	0.997873	0.00186824	0.997873
PhCCCH3+H	0.00115553	0.999028	0.00115553	0.999028
rad6	0.000732495	0.999761	0.000732495	0.999761
Benzene+2-propynyl	0.000183695	0.999944	0.000183695	0.999944
Ph+MeAc	3.20544e-05	0.999976	3.20545e-05	0.999976
rad8	1.07115e-05	0.999987	1.07115e-05	0.999987
rad9	5.88172e-06	0.999993	5.88172e-06	0.999993
PAH7+H	3.52454e-06	0.999997	3.52454e-06	0.999997
rad28	8.86510e-07	0.999997	8.86510e-07	0.999997
Phenyl+Allene	6.71015e-07	0.999998	0.000000	0.999997
rad30	5.71543e-07	0.999999	5.71544e-07	0.999998
rad39	4.69069e-07	0.999999	4.69069e-07	0.999998
rad12	4.18846e-07	1.000000	4.18847e-07	0.999999
rad2	3.21696e-07	1.000000	3.21696e-07	0.999999
PAH9+H	1.20487e-07	1.000000	1.20487e-07	0.999999
rad15	1.09280e-07	1.000000	1.09280e-07	0.999999
rad26	8.89208e-08	1.000000	8.89209e-08	0.999999
rad35	6.11345e-08	1.000000	6.11346e-08	1.000000
rad7	5.35681e-08	1.000000	5.35682e-08	1.000000
rad38	3.19798e-08	1.000000	3.19798e-08	1.000000
rad1	2.07657e-08	1.000000	2.07658e-08	1.000000
rad10	1.62927e-08	1.000000	1.62927e-08	1.000000
rad11	1.31672e-08	1.000000	1.31672e-08	1.000000
rad3	2.02310e-09	1.000000	2.02310e-09	1.000000
rad4	1.02838e-09	1.000000	1.02838e-09	1.000000
rad13	2.98410e-10	1.000000	2.98410e-10	1.000000
rad46	2.66502e-10	1.000000	2.66502e-10	1.000000
PhCH2CCH+H	1.58626e-10	1.000000	1.58626e-10	1.000000
rad37	4.62122e-11	1.000000	4.62122e-11	1.000000
rad60syn	1.20943e-11	1.000000	1.20943e-11	1.000000
rad60anti	2.35808e-12	1.000000	2.35808e-12	1.000000
rad33	5.67221e-13	1.000000	5.67222e-13	1.000000
rad14	3.64570e-13	1.000000	3.64571e-13	1.000000
rad25	2.39102e-13	1.000000	2.39103e-13	1.000000
rad27	2.20097e-13	1.000000	2.20097e-13	1.000000
rad5	1.13164e-13	1.000000	1.13164e-13	1.000000
PAH3+H	2.74860e-17	1.000000	2.74860e-17	1.000000
rad59	1.27314e-17	1.000000	1.27314e-17	1.000000
rad31	6.77847e-18	1.000000	6.77847e-18	1.000000
rad23	6.30964e-18	1.000000	6.30965e-18	1.000000
rad20	1.85732e-18	1.000000	1.85732e-18	1.000000
rad50	1.66104e-18	1.000000	1.66105e-18	1.000000
rad21	1.38170e-18	1.000000	1.38170e-18	1.000000
rad45	4.50141e-20	1.000000	4.50141e-20	1.000000
rad22	1.84463e-20	1.000000	1.84463e-20	1.000000
rad18	7.90490e-21	1.000000	7.90490e-21	1.000000
rad36	2.78955e-21	1.000000	2.78955e-21	1.000000
rad19syn	8.11654e-22	1.000000	8.11654e-22	1.000000
rad54	3.80849e-25	1.000000	3.80849e-25	1.000000
PAH10+CH3	2.48881e-25	1.000000	2.48881e-25	1.000000
rad24	6.56163e-26	1.000000	6.56163e-26	1.000000
rad43	5.95445e-26	1.000000	5.95446e-26	1.000000
rad52	5.03750e-26	1.000000	5.03751e-26	1.000000
rad62	1.37906e-27	1.000000	1.37906e-27	1.000000
rad51	1.43663e-30	1.000000	1.43663e-30	1.000000
rad65	1.70926e-34	1.000000	1.70926e-34	1.000000
rad70	1.18288e-34	1.000000	1.18288e-34	1.000000
PhcycC3H3_A+H	5.35799e-35	1.000000	5.35800e-35	1.000000
rad55	2.86280e-35	1.000000	2.86280e-35	1.000000
rad58	1.90538e-38	1.000000	1.90538e-38	1.000000
PAH1+H	4.66999e-40	1.000000	4.66999e-40	1.000000
rad34	3.47637e-42	1.000000	3.47637e-42	1.000000

rad42	4.50758e-46	1.00000	4.50758e-46	1.000000
rad41	9.61678e-47	1.00000	9.61678e-47	1.000000
rad47	7.48980e-50	1.00000	7.48981e-50	1.000000

0.100000000E-03 Pa, 120.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	4.24245e-20	(1.00)	4.24245e-20	(1.00)
Formation of rad11	4.06372e-20	(0.958)	4.06372e-20	(0.958)
Formation of rad6	1.76944e-21	(0.0417)	1.76944e-21	(0.0417)
H-abstraction	1.78210e-23	(0.000420)	1.78210e-23	(0.000420)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.982135	0.982135	0.982136	0.982136
C2H2+PhCH2	0.0102826	0.992418	0.0102826	0.992419
PhCCH+CH3	0.00336360	0.995781	0.00336361	0.995782
PhCHCCH2+H	0.00198847	0.997770	0.00198847	0.997771
PhCCCH3+H	0.00123709	0.999007	0.00123709	0.999008
rad6	0.000507159	0.999514	0.000507160	0.999515
Benzene+2-propynyl	0.000420064	0.999934	0.000420064	0.999935
Ph+MeAc	3.89848e-05	0.999973	3.89849e-05	0.999974
rad8	1.17134e-05	0.999985	1.17135e-05	0.999986
rad9	6.64849e-06	0.999992	6.64850e-06	0.999993
PAH7+H	4.02787e-06	0.999996	4.02787e-06	0.999997
Phenyl+Allene	9.57034e-07	0.999997	0.00000	0.999997
rad28	6.26656e-07	0.999997	6.26657e-07	0.999997
rad30	6.04927e-07	0.999998	6.04928e-07	0.999998
rad39	5.62314e-07	0.999998	5.62314e-07	0.999998
rad12	4.75393e-07	0.999999	4.75394e-07	0.999999
rad2	2.21424e-07	0.999999	2.21424e-07	0.999999
PAH9+H	1.28668e-07	0.999999	1.28669e-07	0.999999
rad15	1.17177e-07	0.999999	1.17177e-07	0.999999
rad35	6.47959e-08	0.999999	6.47960e-08	0.999999
rad26	6.23250e-08	0.999999	6.23250e-08	0.999999
rad7	3.71303e-08	0.999999	3.71303e-08	1.000000
rad38	3.43732e-08	0.999999	3.43732e-08	1.000000
rad1	1.43503e-08	1.000000	1.43503e-08	1.000000
rad10	1.12336e-08	1.000000	1.12336e-08	1.000000
rad11	9.12774e-09	1.000000	9.12775e-09	1.000000
rad3	1.39392e-09	1.000000	1.39392e-09	1.000000
rad4	7.09316e-10	1.000000	7.09316e-10	1.000000
PhCH2CCH+H	4.63487e-10	1.000000	4.63487e-10	1.000000
rad46	3.00858e-10	1.000000	3.00859e-10	1.000000
rad13	2.07170e-10	1.000000	2.07170e-10	1.000000
rad37	1.38346e-10	1.000000	1.38346e-10	1.000000
rad60syn	1.55224e-11	1.000000	1.55224e-11	1.000000
rad60anti	3.38081e-12	1.000000	3.38082e-12	1.000000
rad5	4.29677e-13	1.000000	4.29678e-13	1.000000
rad33	3.94246e-13	1.000000	3.94247e-13	1.000000
rad14	2.59021e-13	1.000000	2.59021e-13	1.000000
rad25	1.69031e-13	1.000000	1.69031e-13	1.000000
rad27	1.53303e-13	1.000000	1.53303e-13	1.000000
PAH3+H	1.44062e-16	1.000000	1.44062e-16	1.000000
rad59	6.38930e-17	1.000000	6.38930e-17	1.000000
rad50	7.50783e-18	1.000000	7.50783e-18	1.000000
rad31	4.81363e-18	1.000000	4.81363e-18	1.000000
rad23	3.89723e-18	1.000000	3.89723e-18	1.000000
rad20	1.36270e-18	1.000000	1.36270e-18	1.000000
rad21	1.01587e-18	1.000000	1.01587e-18	1.000000
rad45	2.76712e-20	1.000000	2.76712e-20	1.000000
rad19syn	2.03293e-20	1.000000	2.03293e-20	1.000000
rad22	1.22172e-20	1.000000	1.22172e-20	1.000000
rad18	5.80321e-21	1.000000	5.80321e-21	1.000000
rad36	1.71471e-21	1.000000	1.71471e-21	1.000000
rad54	1.78785e-23	1.000000	1.78785e-23	1.000000
PAH10+CH3	1.18057e-23	1.000000	1.18057e-23	1.000000
rad43	2.83943e-24	1.000000	2.83944e-24	1.000000
rad52	1.13145e-24	1.000000	1.13145e-24	1.000000
rad62	1.01714e-25	1.000000	1.01714e-25	1.000000
rad24	5.16615e-26	1.000000	5.16616e-26	1.000000
rad51	1.05124e-28	1.000000	1.05124e-28	1.000000
rad70	3.03455e-29	1.000000	3.03455e-29	1.000000
PhcycC3H3_A+H	1.82717e-29	1.000000	1.82717e-29	1.000000
rad55	1.01618e-29	1.000000	1.01618e-29	1.000000
rad65	3.61466e-32	1.000000	3.61467e-32	1.000000
rad58	8.74438e-33	1.000000	8.74439e-33	1.000000
PAH1+H	5.49633e-37	1.000000	5.49633e-37	1.000000
rad34	4.16141e-39	1.000000	4.16141e-39	1.000000

rad42	5.05459e-43	1.000000	5.05460e-43	1.000000
rad41	8.83410e-44	1.000000	8.83411e-44	1.000000
rad47	7.77946e-47	1.000000	7.77946e-47	1.000000

0.100000000E-03 Pa, 130.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.33719e-19	(1.00)	1.33719e-19	(1.00)
Formation of rad11	1.26517e-19	(0.946)	1.26517e-19	(0.946)
Formation of rad6	7.08974e-21	(0.0530)	7.08973e-21	(0.0530)
H-abstraction	1.11864e-22	(0.000837)	1.11864e-22	(0.000837)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.980945	0.980945	0.980946	0.980946
C2H2+PhCH2	0.0107147	0.991659	0.0107147	0.991660
PhCCH+CH3	0.00362484	0.995284	0.00362484	0.995285
PhCHCCH2+H	0.00211961	0.997404	0.00211962	0.997405
PhCCCH3+H	0.00132624	0.998730	0.00132624	0.998731
Benzene+2-propynyl	0.000836559	0.999567	0.000836560	0.999568
rad6	0.000356847	0.999924	0.000356848	0.999925
Ph+MeAc	4.74093e-05	0.999971	4.74094e-05	0.999972
rad8	1.28322e-05	0.999984	1.28322e-05	0.999985
rad9	7.53680e-06	0.999991	7.53681e-06	0.999992
PAH7+H	4.61642e-06	0.999996	4.61643e-06	0.999997
Phenyl+Allene	1.34413e-06	0.999997	0.00000	0.999997
rad39	6.74867e-07	0.999998	6.74868e-07	0.999998
rad30	6.41660e-07	0.999999	6.41661e-07	0.999998
rad12	5.40365e-07	0.999999	5.40366e-07	0.999999
rad28	4.49519e-07	1.000000	4.49520e-07	0.999999
rad2	1.55019e-07	1.000000	1.55019e-07	0.999999
PAH9+H	1.37819e-07	1.000000	1.37819e-07	1.000000
rad15	1.25992e-07	1.000000	1.25993e-07	1.000000
rad35	6.88514e-08	1.000000	6.88515e-08	1.000000
rad26	4.43771e-08	1.000000	4.43772e-08	1.000000
rad38	3.70692e-08	1.000000	3.70693e-08	1.000000
rad7	2.61586e-08	1.000000	2.61586e-08	1.000000
rad1	1.00904e-08	1.000000	1.00905e-08	1.000000
rad10	7.87849e-09	1.000000	7.87850e-09	1.000000
rad11	6.43157e-09	1.000000	6.43158e-09	1.000000
PhCH2CCH+H	1.18183e-09	1.000000	1.18183e-09	1.000000
rad3	9.76840e-10	1.000000	9.76841e-10	1.000000
rad4	4.97658e-10	1.000000	4.97659e-10	1.000000
rad37	3.47650e-10	1.000000	3.47650e-10	1.000000
rad46	3.41578e-10	1.000000	3.41578e-10	1.000000
rad13	1.46182e-10	1.000000	1.46182e-10	1.000000
rad60syn	1.99509e-11	1.000000	1.99510e-11	1.000000
rad60anti	4.74059e-12	1.000000	4.74060e-12	1.000000
rad5	1.35304e-12	1.000000	1.35304e-12	1.000000
rad33	2.78527e-13	1.000000	2.78527e-13	1.000000
rad14	1.87068e-13	1.000000	1.87068e-13	1.000000
rad25	1.21482e-13	1.000000	1.21483e-13	1.000000
rad27	1.08572e-13	1.000000	1.08572e-13	1.000000
PAH3+H	5.93947e-16	1.000000	5.93947e-16	1.000000
rad59	2.52397e-16	1.000000	2.52397e-16	1.000000
rad50	2.75929e-17	1.000000	2.75930e-17	1.000000
rad31	3.48989e-18	1.000000	3.48990e-18	1.000000
rad23	2.50206e-18	1.000000	2.50206e-18	1.000000
rad20	1.01839e-18	1.000000	1.01839e-18	1.000000
rad21	7.60892e-19	1.000000	7.60893e-19	1.000000
rad19syn	3.10579e-19	1.000000	3.10580e-19	1.000000
rad45	1.76943e-20	1.000000	1.76944e-20	1.000000
rad22	8.32623e-21	1.000000	8.32624e-21	1.000000
rad18	4.33884e-21	1.000000	4.33885e-21	1.000000
rad36	1.09663e-21	1.000000	1.09664e-21	1.000000
rad54	4.58760e-22	1.000000	4.58760e-22	1.000000
PAH10+CH3	3.05535e-22	1.000000	3.05535e-22	1.000000
rad43	7.38062e-23	1.000000	7.38063e-23	1.000000
rad52	1.58013e-23	1.000000	1.58013e-23	1.000000
rad62	3.62096e-24	1.000000	3.62096e-24	1.000000
rad24	4.16329e-26	1.000000	4.16330e-26	1.000000
rad51	3.73195e-27	1.000000	3.73196e-27	1.000000
rad70	2.72452e-27	1.000000	2.72452e-27	1.000000
PhcycC3H3_A+H	2.14582e-27	1.000000	2.14582e-27	1.000000
rad55	9.73851e-28	1.000000	9.73852e-28	1.000000
rad65	2.45235e-30	1.000000	2.45236e-30	1.000000
rad58	1.13090e-30	1.000000	1.13091e-30	1.000000
PAH1+H	4.50871e-34	1.000000	4.50871e-34	1.000000
rad34	3.47497e-36	1.000000	3.47498e-36	1.000000

rad42	4.19822e-40	1.00000	4.19823e-40	1.000000
rad41	6.42132e-41	1.00000	6.42133e-41	1.000000
rad47	3.58491e-41	1.00000	3.58492e-41	1.000000

0.100000000E-03 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.59582e-19 (1.00)	3.59581e-19 (1.00)
Formation of rad11	3.35703e-19 (0.934)	3.35702e-19 (0.934)
Formation of rad6	2.33415e-20 (0.0649)	2.33414e-20 (0.0649)
H-abstraction	5.37685e-22 (0.00150)	5.37685e-22 (0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.979382	0.979382	0.979384	0.979384
C2H2+PhCH2	0.0111796	0.990562	0.0111796	0.990564
PhCCH+CH3	0.00391217	0.994474	0.00391218	0.994476
PhCHCCH2+H	0.00226225	0.996736	0.00226226	0.996738
Benzene+2-propynyl	0.00149531	0.998232	0.00149531	0.998234
PhCCCH3+H	0.00142337	0.999655	0.00142337	0.999657
rad6	0.000254484	0.999909	0.000254484	0.999911
Ph+MeAc	5.75849e-05	0.999967	5.75850e-05	0.999969
rad8	1.40771e-05	0.999981	1.40772e-05	0.999983
rad9	8.56337e-06	0.999990	8.56339e-06	0.999992
PAH7+H	5.30350e-06	0.999995	5.30351e-06	0.999997
Phenyl+Allene	1.86209e-06	0.999997	0.00000	0.999997
rad39	8.10197e-07	0.999998	8.10198e-07	0.999998
rad30	6.82052e-07	0.999998	6.82054e-07	0.999999
rad12	6.14708e-07	0.999999	6.14709e-07	0.999999
rad28	3.26408e-07	0.999999	3.26409e-07	0.999999
PAH9+H	1.48054e-07	0.999999	1.48054e-07	1.000000
rad15	1.35827e-07	1.000000	1.35827e-07	1.000000
rad2	1.10074e-07	1.000000	1.10074e-07	1.000000
rad35	7.33430e-08	1.000000	7.33431e-08	1.000000
rad38	4.01067e-08	1.000000	4.01068e-08	1.000000
rad26	3.20149e-08	1.000000	3.20150e-08	1.000000
rad7	1.86808e-08	1.000000	1.86808e-08	1.000000
rad1	7.19877e-09	1.000000	7.19879e-09	1.000000
rad10	5.60473e-09	1.000000	5.60474e-09	1.000000
rad11	4.59390e-09	1.000000	4.59391e-09	1.000000
PhCH2CCH+H	2.70784e-09	1.000000	2.70784e-09	1.000000
rad37	7.62331e-10	1.000000	7.62333e-10	1.000000
rad3	6.94325e-10	1.000000	6.94326e-10	1.000000
rad46	3.89869e-10	1.000000	3.89870e-10	1.000000
rad4	3.54182e-10	1.000000	3.54183e-10	1.000000
rad13	1.04556e-10	1.000000	1.04556e-10	1.000000
rad60syn	2.56423e-11	1.000000	2.56424e-11	1.000000
rad60anti	6.53680e-12	1.000000	6.53681e-12	1.000000
rad5	3.67883e-12	1.000000	3.67883e-12	1.000000
rad33	1.99475e-13	1.000000	1.99475e-13	1.000000
rad14	1.36975e-13	1.000000	1.36975e-13	1.000000
rad25	8.85313e-14	1.000000	8.85315e-14	1.000000
rad27	7.79731e-14	1.000000	7.79732e-14	1.000000
PAH3+H	2.03193e-15	1.000000	2.03193e-15	1.000000
rad59	8.28458e-16	1.000000	8.28460e-16	1.000000
rad50	8.64220e-17	1.000000	8.64222e-17	1.000000
rad19syn	3.22327e-18	1.000000	3.22328e-18	1.000000
rad31	2.57772e-18	1.000000	2.57773e-18	1.000000
rad23	1.66169e-18	1.000000	1.66169e-18	1.000000
rad20	7.73122e-19	1.000000	7.73124e-19	1.000000
rad21	5.79009e-19	1.000000	5.79010e-19	1.000000
rad45	1.17123e-20	1.000000	1.17123e-20	1.000000
rad54	7.39882e-21	1.000000	7.39883e-21	1.000000
rad22	5.81141e-21	1.000000	5.81142e-21	1.000000
PAH10+CH3	4.96428e-21	1.000000	4.96429e-21	1.000000
rad18	3.29448e-21	1.000000	3.29449e-21	1.000000
rad43	1.20364e-21	1.000000	1.20364e-21	1.000000
rad36	7.26153e-22	1.000000	7.26154e-22	1.000000
rad52	1.52336e-22	1.000000	1.52337e-22	1.000000
rad62	7.68620e-23	1.000000	7.68621e-23	1.000000
rad70	1.16313e-25	1.000000	1.16313e-25	1.000000
PhcycC3H3_A+H	1.06457e-25	1.000000	1.06458e-25	1.000000
rad51	7.94296e-26	1.000000	7.94297e-26	1.000000
rad55	4.37246e-26	1.000000	4.37247e-26	1.000000
rad24	3.42400e-26	1.000000	3.42401e-26	1.000000
PAH1+H	1.72844e-28	1.000000	1.72844e-28	1.000000
rad65	8.25936e-29	1.000000	8.25938e-29	1.000000
rad58	6.05397e-29	1.000000	6.05399e-29	1.000000
rad34	4.12761e-30	1.000000	4.12761e-30	1.000000

rad42	1.07619e-36	1.000000	1.07619e-36	1.00000
rad41	1.50169e-37	1.000000	1.50169e-37	1.00000
rad47	2.48317e-39	1.000000	2.48318e-39	1.00000

0.100000000E-03 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.51464e-19 (1.00)	8.51462e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83709e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56650e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.977405	0.977405	0.977408	0.977408
C2H2+PhCH2	0.0116790	0.989084	0.0116790	0.989087
PhCCH+CH3	0.00422724	0.993311	0.00422725	0.993314
Benzene+2-propynyl	0.00245244	0.995764	0.00245245	0.995767
PhCHCCH2+H	0.00241694	0.998181	0.00241695	0.998184
PhCCCH3+H	0.00152880	0.999709	0.00152881	0.999713
rad6	0.000183554	0.999893	0.000183555	0.999896
Ph+MeAc	6.97996e-05	0.999963	6.97998e-05	0.999966
rad8	1.54577e-05	0.999978	1.54577e-05	0.999981
rad9	9.74671e-06	0.999988	9.74674e-06	0.999991
PAH7+H	6.10410e-06	0.999994	6.10411e-06	0.999997
Phenyl+Allene	2.54835e-06	0.999997	0.00000	0.999997
rad39	9.72315e-07	0.999998	9.72317e-07	0.999998
rad30	7.26425e-07	0.999998	7.26427e-07	0.999999
rad12	6.99412e-07	0.999999	6.99414e-07	1.000000
rad28	2.39453e-07	0.999999	2.39454e-07	1.000000
PAH9+H	1.59502e-07	0.999999	1.59502e-07	1.000000
rad15	1.46789e-07	1.000000	1.46790e-07	1.00000
rad2	7.90987e-08	1.000000	7.90989e-08	1.00000
rad35	7.83156e-08	1.000000	7.83158e-08	1.00000
rad38	4.35292e-08	1.000000	4.35294e-08	1.00000
rad26	2.33530e-08	1.000000	2.33531e-08	1.00000
rad7	1.34943e-08	1.000000	1.34944e-08	1.00000
PhCH2CCH+H	5.69604e-09	1.000000	5.69606e-09	1.00000
rad1	5.19967e-09	1.000000	5.19968e-09	1.00000
rad10	4.03542e-09	1.000000	4.03543e-09	1.00000
rad11	3.31924e-09	1.000000	3.31925e-09	1.00000
rad37	1.50096e-09	1.000000	1.50096e-09	1.00000
rad3	4.99420e-10	1.000000	4.99421e-10	1.00000
rad46	4.47181e-10	1.000000	4.47182e-10	1.00000
rad4	2.55116e-10	1.000000	2.55117e-10	1.00000
rad13	7.56465e-11	1.000000	7.56467e-11	1.00000
rad60syn	3.29231e-11	1.000000	3.29231e-11	1.00000
rad60anti	8.89654e-12	1.000000	8.89656e-12	1.00000
rad5	8.89505e-12	1.000000	8.89507e-12	1.00000
rad33	1.44518e-13	1.000000	1.44519e-13	1.00000
rad14	1.01479e-13	1.000000	1.01479e-13	1.00000
rad25	6.52876e-14	1.000000	6.52878e-14	1.00000
rad27	5.66648e-14	1.000000	5.66650e-14	1.00000
PAH3+H	5.99895e-15	1.000000	5.99896e-15	1.00000
rad59	2.35075e-15	1.000000	2.35076e-15	1.00000
rad50	2.38697e-16	1.000000	2.38697e-16	1.00000
rad19syn	2.45836e-17	1.000000	2.45836e-17	1.00000
rad31	1.93734e-18	1.000000	1.93734e-18	1.00000
rad23	1.13800e-18	1.000000	1.13800e-18	1.00000
rad20	5.94951e-19	1.000000	5.94953e-19	1.00000
rad21	4.46691e-19	1.000000	4.46692e-19	1.00000
rad54	8.24673e-20	1.000000	8.24675e-20	1.00000
PAH10+CH3	5.56845e-20	1.000000	5.56846e-20	1.00000
rad43	1.35389e-20	1.000000	1.35389e-20	1.00000
rad45	7.99884e-21	1.000000	7.99886e-21	1.00000
rad22	4.13892e-21	1.000000	4.13893e-21	1.00000
rad18	2.53484e-21	1.000000	2.53484e-21	1.00000
rad52	1.09442e-21	1.000000	1.09442e-21	1.00000
rad62	1.08491e-21	1.000000	1.08491e-21	1.00000
rad36	4.96221e-22	1.000000	4.96222e-22	1.00000
rad70	2.82677e-24	1.000000	2.82677e-24	1.00000
PhcycC3H3_A+H	2.82621e-24	1.000000	2.82622e-24	1.00000
rad51	1.13091e-24	1.000000	1.13092e-24	1.00000
rad55	1.09805e-24	1.000000	1.09805e-24	1.00000
rad24	2.86749e-26	1.000000	2.86749e-26	1.00000
PAH1+H	8.47385e-27	1.000000	8.47387e-27	1.00000
rad65	1.71186e-27	1.000000	1.71186e-27	1.00000
rad58	1.68957e-27	1.000000	1.68958e-27	1.00000
rad34	2.52692e-28	1.000000	2.52693e-28	1.00000

rad42	7.85375e-31	1.000000	7.85377e-31	1.00000
rad41	1.60805e-31	1.000000	1.60806e-31	1.00000
rad47	7.59304e-38	1.000000	7.59306e-38	1.00000

0.100000000E-03 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.81800e-18 (1.00)	1.81800e-18 (1.00)
Formation of rad11	1.64862e-18 (0.907)	1.64862e-18 (0.907)
Formation of rad6	1.62558e-19 (0.0894)	1.62558e-19 (0.0894)
H-abstraction	6.82130e-21 (0.00375)	6.82130e-21 (0.00375)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.974974	0.974974	0.974978	0.974978
C2H2+PhCH2	0.0122147	0.987189	0.0122147	0.987193
PhCCH+CH3	0.00457164	0.991760	0.00457166	0.991764
Benzene+2-propynyl	0.00375209	0.995512	0.00375210	0.995516
PhCHCCH2+H	0.00258416	0.998097	0.00258417	0.998101
PhCCCH3+H	0.00164283	0.999739	0.00164284	0.999743
rad6	0.000133680	0.999873	0.000133680	0.999877
Ph+MeAc	8.43759e-05	0.999958	8.43762e-05	0.999962
rad8	1.69827e-05	0.999974	1.69828e-05	0.999979
rad9	1.11076e-05	0.999986	1.11076e-05	0.999990
PAH7+H	7.03538e-06	0.999993	7.03540e-06	0.999997
Phenyl+Allene	3.44992e-06	0.999996	0.00000	0.999997
rad39	1.16588e-06	0.999997	1.16588e-06	0.999998
rad12	7.95514e-07	0.999998	7.95517e-07	0.999999
rad30	7.75127e-07	0.999999	7.75129e-07	0.999999
rad28	1.77195e-07	0.999999	1.77196e-07	1.000000
PAH9+H	1.72305e-07	0.999999	1.72306e-07	1.000000
rad15	1.59002e-07	0.999999	1.59002e-07	1.000000
rad35	8.38196e-08	0.999999	8.38199e-08	1.000000
rad2	5.74270e-08	0.999999	5.74272e-08	1.000000
rad38	4.73860e-08	1.000000	4.73861e-08	1.000000
rad26	1.71956e-08	1.000000	1.71957e-08	1.000000
PhCH2CCH+H	1.11785e-08	1.000000	1.11785e-08	1.000000
rad7	9.84353e-09	1.000000	9.84357e-09	1.000000
rad1	3.79618e-09	1.000000	3.79619e-09	1.000000
rad10	2.93574e-09	1.000000	2.93575e-09	1.000000
rad37	2.71096e-09	1.000000	2.71097e-09	1.000000
rad11	2.42187e-09	1.000000	2.42188e-09	1.000000
rad46	5.15257e-10	1.000000	5.15259e-10	1.000000
rad3	3.62971e-10	1.000000	3.62973e-10	1.000000
rad4	1.85699e-10	1.000000	1.85700e-10	1.000000
rad13	5.52685e-11	1.000000	5.52687e-11	1.000000
rad60syn	4.22006e-11	1.000000	4.22007e-11	1.000000
rad5	1.95519e-11	1.000000	1.95519e-11	1.000000
rad60anti	1.19816e-11	1.000000	1.19816e-11	1.000000
rad33	1.05741e-13	1.000000	1.05741e-13	1.000000
rad14	7.59441e-14	1.000000	7.59444e-14	1.000000
rad25	4.86425e-14	1.000000	4.86427e-14	1.000000
rad27	4.16004e-14	1.000000	4.16005e-14	1.000000
PAH3+H	1.57400e-14	1.000000	1.57400e-14	1.000000
rad59	5.93886e-15	1.000000	5.93888e-15	1.000000
rad50	5.96322e-16	1.000000	5.96324e-16	1.000000
rad19syn	1.46137e-16	1.000000	1.46137e-16	1.000000
rad31	1.48098e-18	1.000000	1.48099e-18	1.000000
rad23	8.02218e-19	1.000000	8.02221e-19	1.000000
rad54	6.81824e-19	1.000000	6.81827e-19	1.000000
rad20	4.63326e-19	1.000000	4.63327e-19	1.000000
PAH10+CH3	4.62822e-19	1.000000	4.62823e-19	1.000000
rad21	3.48789e-19	1.000000	3.48790e-19	1.000000
rad43	1.12716e-19	1.000000	1.12716e-19	1.000000
rad62	1.10110e-20	1.000000	1.10110e-20	1.000000
rad52	6.20423e-21	1.000000	6.20426e-21	1.000000
rad45	5.62629e-21	1.000000	5.62631e-21	1.000000
rad22	2.99937e-21	1.000000	2.99938e-21	1.000000
rad18	1.97289e-21	1.000000	1.97290e-21	1.000000
rad36	3.49335e-22	1.000000	3.49336e-22	1.000000
PhcycC3H3_A+H	4.94769e-23	1.000000	4.94770e-23	1.000000
rad70	4.57950e-23	1.000000	4.57952e-23	1.000000
rad55	1.82840e-23	1.000000	1.82840e-23	1.000000
rad51	1.16532e-23	1.000000	1.16532e-23	1.000000
PAH1+H	2.26710e-25	1.000000	2.26711e-25	1.000000
rad58	3.08076e-26	1.000000	3.08077e-26	1.000000
rad24	2.44134e-26	1.000000	2.44135e-26	1.000000
rad65	2.43498e-26	1.000000	2.43499e-26	1.000000
rad34	7.87196e-27	1.000000	7.87198e-27	1.000000

rad42	4.07640e-29	1.000000	4.07642e-29	1.00000
rad41	9.77795e-30	1.000000	9.77799e-30	1.00000
rad47	1.41703e-36	1.000000	1.41703e-36	1.00000

0.100000000E-03 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.56414e-18 (1.00)	3.56412e-18 (1.00)
Formation of rad11	3.18264e-18 (0.893)	3.18262e-18 (0.893)
Formation of rad6	3.62173e-19 (0.102)	3.62171e-19 (0.102)
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.972063	0.972063	0.972068	0.972068
C2H2+PhCH2	0.0127889	0.984852	0.0127889	0.984857
Benzene+2-propynyl	0.00542285	0.990275	0.00542288	0.990280
PhCCH+CH3	0.00494703	0.995222	0.00494705	0.995227
PhCHCCH2+H	0.00276441	0.997986	0.00276442	0.997991
PhCCCH3+H	0.00176572	0.999752	0.00176572	0.999757
Ph+MeAc	0.000101673	0.999853	0.000101673	0.999858
rad6	9.81681e-05	0.999952	9.81686e-05	0.999957
rad8	1.86615e-05	0.999970	1.86616e-05	0.999975
rad9	1.26690e-05	0.999983	1.26691e-05	0.999988
PAH7+H	8.11698e-06	0.999991	8.11702e-06	0.999996
Phenyl+Allene	4.62531e-06	0.999996	0.00000	0.999996
rad39	1.39628e-06	0.999997	1.39629e-06	0.999997
rad12	9.04106e-07	0.999998	9.04110e-07	0.999998
rad30	8.28543e-07	0.999999	8.28547e-07	0.999999
PAH9+H	1.86631e-07	0.999999	1.86632e-07	0.999999
rad15	1.72599e-07	0.999999	1.72600e-07	1.000000
rad28	1.32100e-07	0.999999	1.32100e-07	1.000000
rad35	8.99121e-08	0.999999	8.99125e-08	1.000000
rad38	5.17343e-08	0.999999	5.17345e-08	1.000000
rad2	4.20638e-08	1.000000	4.20639e-08	1.000000
PhCH2CCH+H	2.07187e-08	1.000000	2.07188e-08	1.000000
rad26	1.27644e-08	1.000000	1.27645e-08	1.000000
rad7	7.24097e-09	1.000000	7.24101e-09	1.000000
rad37	4.56586e-09	1.000000	4.56587e-09	1.000000
rad1	2.79753e-09	1.000000	2.79754e-09	1.000000
rad10	2.15485e-09	1.000000	2.15486e-09	1.000000
rad11	1.78207e-09	1.000000	1.78208e-09	1.000000
rad46	5.96218e-10	1.000000	5.96221e-10	1.000000
rad3	2.66112e-10	1.000000	2.66113e-10	1.000000
rad4	1.36373e-10	1.000000	1.36374e-10	1.000000
rad60syn	5.39835e-11	1.000000	5.39837e-11	1.000000
rad13	4.07219e-11	1.000000	4.07221e-11	1.000000
rad5	3.97284e-11	1.000000	3.97286e-11	1.000000
rad60anti	1.59968e-11	1.000000	1.59969e-11	1.000000
rad33	7.80292e-14	1.000000	7.80295e-14	1.000000
rad14	5.73381e-14	1.000000	5.73384e-14	1.000000
PAH3+H	3.75310e-14	1.000000	3.75312e-14	1.000000
rad25	3.65672e-14	1.000000	3.65673e-14	1.000000
rad27	3.08114e-14	1.000000	3.08116e-14	1.000000
rad59	1.36604e-14	1.000000	1.36605e-14	1.000000
rad50	1.37349e-15	1.000000	1.37350e-15	1.000000
rad19syn	7.08152e-16	1.000000	7.08155e-16	1.000000
rad54	4.41302e-18	1.000000	4.41304e-18	1.000000
PAH10+CH3	3.00789e-18	1.000000	3.00790e-18	1.000000
rad31	1.15205e-18	1.000000	1.15206e-18	1.000000
rad43	7.32856e-19	1.000000	7.32859e-19	1.000000
rad23	5.81761e-19	1.000000	5.81764e-19	1.000000
rad20	3.64656e-19	1.000000	3.64658e-19	1.000000
rad21	2.75283e-19	1.000000	2.75284e-19	1.000000
rad62	8.52360e-20	1.000000	8.52364e-20	1.000000
rad52	2.89924e-20	1.000000	2.89926e-20	1.000000
rad45	4.07311e-21	1.000000	4.07313e-21	1.000000
rad22	2.20665e-21	1.000000	2.20666e-21	1.000000
rad18	1.55110e-21	1.000000	1.55110e-21	1.000000
PhcycC3H3_A+H	6.18422e-22	1.000000	6.18425e-22	1.000000
rad70	5.33303e-22	1.000000	5.33306e-22	1.000000
rad36	2.53187e-22	1.000000	2.53189e-22	1.000000
rad55	2.18108e-22	1.000000	2.18109e-22	1.000000
rad51	9.21778e-23	1.000000	9.21782e-23	1.000000
PAH1+H	3.94371e-24	1.000000	3.94373e-24	1.000000
rad58	3.99221e-25	1.000000	3.99223e-25	1.000000
rad65	2.54647e-25	1.000000	2.54648e-25	1.000000
rad34	1.50302e-25	1.000000	1.50303e-25	1.000000
rad24	2.11050e-26	1.000000	2.11051e-26	1.000000

rad42	1.01737e-27	1.000000	1.01737e-27	1.000000
rad41	2.58546e-28	1.000000	2.58547e-28	1.000000
rad47	1.82736e-35	1.000000	1.82737e-35	1.000000

0.100000000E-03 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.50681e-18 (1.00)	6.50677e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71911e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39008e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.968659	0.968659	0.968665	0.968665
C2H2+PhCH2	0.0134037	0.982063	0.0134037	0.982069
Benzene+2-propynyl	0.00747672	0.989539	0.00747676	0.989545
PhCCH+CH3	0.00535503	0.994895	0.00535506	0.994901
PhCHCCH2+H	0.00295816	0.997853	0.00295818	0.997859
PhCCCH3+H	0.00189768	0.999750	0.00189770	0.999756
Ph+MeAc	0.000122082	0.999872	0.000122083	0.999878
rad6	7.26102e-05	0.999945	7.26106e-05	0.999951
rad8	2.05033e-05	0.999966	2.05034e-05	0.999972
rad9	1.44572e-05	0.999980	1.44573e-05	0.999986
PAH7+H	9.37136e-06	0.999989	9.37141e-06	0.999995
Phenyl+Allene	6.14707e-06	0.999996	0.00000	0.999995
rad39	1.66976e-06	0.999997	1.66977e-06	0.999997
rad12	1.02632e-06	0.999998	1.02633e-06	0.999998
rad30	8.87108e-07	0.999999	8.87114e-07	0.999999
PAH9+H	2.02670e-07	0.999999	2.02671e-07	0.999999
rad15	1.87735e-07	1.000000	1.87736e-07	0.999999
rad28	9.91117e-08	1.000000	9.91124e-08	0.999999
rad35	9.66582e-08	1.000000	9.66588e-08	1.000000
rad38	5.66403e-08	1.000000	5.66407e-08	1.000000
PhCH2CCH+H	3.66110e-08	1.000000	3.66112e-08	1.000000
rad2	3.10500e-08	1.000000	3.10502e-08	1.000000
rad26	9.54162e-09	1.000000	9.54168e-09	1.000000
rad37	7.26250e-09	1.000000	7.26255e-09	1.000000
rad7	5.36541e-09	1.000000	5.36545e-09	1.000000
rad1	2.07870e-09	1.000000	2.07871e-09	1.000000
rad10	1.59406e-09	1.000000	1.59407e-09	1.000000
rad11	1.32091e-09	1.000000	1.32092e-09	1.000000
rad46	6.92624e-10	1.000000	6.92628e-10	1.000000
rad3	1.96621e-10	1.000000	1.96623e-10	1.000000
rad4	1.00947e-10	1.000000	1.00948e-10	1.000000
rad5	7.55982e-11	1.000000	7.55986e-11	1.000000
rad60syn	6.89043e-11	1.000000	6.89047e-11	1.000000
rad13	3.02241e-11	1.000000	3.02243e-11	1.000000
rad60anti	2.12007e-11	1.000000	2.12008e-11	1.000000
PAH3+H	8.27374e-14	1.000000	8.27379e-14	1.000000
rad33	5.80080e-14	1.000000	5.80083e-14	1.000000
rad14	4.36279e-14	1.000000	4.36282e-14	1.000000
rad59	2.91033e-14	1.000000	2.91034e-14	1.000000
rad25	2.77081e-14	1.000000	2.77083e-14	1.000000
rad27	2.29978e-14	1.000000	2.29980e-14	1.000000
rad50	2.95950e-15	1.000000	2.95952e-15	1.000000
rad19syn	2.89650e-15	1.000000	2.89652e-15	1.000000
rad54	2.33149e-17	1.000000	2.33150e-17	1.000000
PAH10+CH3	1.59363e-17	1.000000	1.59364e-17	1.000000
rad43	3.87936e-18	1.000000	3.87938e-18	1.000000
rad31	9.13364e-19	1.000000	9.13370e-19	1.000000
rad62	5.26815e-19	1.000000	5.26818e-19	1.000000
rad23	4.34281e-19	1.000000	4.34284e-19	1.000000
rad20	2.89739e-19	1.000000	2.89741e-19	1.000000
rad21	2.19378e-19	1.000000	2.19379e-19	1.000000
rad52	1.15527e-19	1.000000	1.15528e-19	1.000000
PhcycC3H3_A+H	5.85484e-21	1.000000	5.85487e-21	1.000000
rad70	4.72682e-21	1.000000	4.72685e-21	1.000000
rad45	3.03709e-21	1.000000	3.03711e-21	1.000000
rad55	1.97570e-21	1.000000	1.97571e-21	1.000000
rad22	1.64521e-21	1.000000	1.64522e-21	1.000000
rad18	1.23045e-21	1.000000	1.23045e-21	1.000000
rad51	5.85876e-22	1.000000	5.85880e-22	1.000000
rad36	1.89061e-22	1.000000	1.89062e-22	1.000000
PAH1+H	4.95131e-23	1.000000	4.95134e-23	1.000000
rad58	3.90745e-24	1.000000	3.90748e-24	1.000000
rad65	2.06496e-24	1.000000	2.06498e-24	1.000000
rad34	2.04031e-24	1.000000	2.04032e-24	1.000000
rad24	1.85098e-26	1.000000	1.85099e-26	1.000000

rad42	1.68924e-26	1.000000	1.68925e-26	1.000000
rad41	4.43532e-27	1.000000	4.43535e-27	1.000000
rad47	1.73364e-34	1.000000	1.73365e-34	1.000000

0.100000000E-03 Pa, 190.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.11858e-17	(1.00)	1.11857e-17	(1.00)
Formation of rad11	9.67466e-18	(0.865)	9.67458e-18	(0.865)
Formation of rad6	1.40029e-18	(0.125)	1.40028e-18	(0.125)
H-abstraction	1.10851e-19	(0.00991)	1.10851e-19	(0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.964764	0.964764	0.964771	0.964771
C2H2+PhCH2	0.0140618	0.978825	0.0140619	0.978833
Benzene+2-propynyl	0.00990995	0.988735	0.00991003	0.988743
PhCCH+CH3	0.00579733	0.994533	0.00579738	0.994541
PhCHCCH2+H	0.00316589	0.997698	0.00316592	0.997707
PhCCCH3+H	0.00203894	0.999737	0.00203896	0.999746
Ph+MeAc	0.000146036	0.999883	0.000146037	0.999892
rad6	5.40437e-05	0.999937	5.40441e-05	0.999946
rad8	2.25170e-05	0.999960	2.25172e-05	0.999968
rad9	1.65011e-05	0.999977	1.65012e-05	0.999985
PAH7+H	1.08241e-05	0.999987	1.08242e-05	0.999995
Phenyl+Allene	8.10445e-06	0.999995	0.00000	0.999995
rad39	1.99350e-06	0.999997	1.99351e-06	0.999997
rad12	1.16332e-06	0.999999	1.16333e-06	0.999999
rad30	9.51305e-07	1.000000	9.51313e-07	1.000000
PAH9+H	2.20642e-07	1.000000	2.20644e-07	1.000000
rad15	2.04580e-07	1.000000	2.04582e-07	1.000000
rad35	1.04133e-07	1.000000	1.04134e-07	1.000000
rad28	7.47741e-08	1.000000	7.47748e-08	1.000000
rad38	6.21807e-08	1.000000	6.21812e-08	1.000000
PhCH2CCH+H	6.21339e-08	1.000000	6.21345e-08	1.000000
rad2	2.30764e-08	1.000000	2.30766e-08	1.000000
rad37	1.10193e-08	1.000000	1.10194e-08	1.000000
rad26	7.17623e-09	1.000000	7.17629e-09	1.000000
rad7	4.00100e-09	1.000000	4.00103e-09	1.000000
rad1	1.55600e-09	1.000000	1.55601e-09	1.000000
rad10	1.18741e-09	1.000000	1.18740e-09	1.000000
rad11	9.85349e-10	1.000000	9.85357e-10	1.000000
rad46	8.07569e-10	1.000000	8.07576e-10	1.000000
rad3	1.46273e-10	1.000000	1.46274e-10	1.000000
rad5	1.36090e-10	1.000000	1.36091e-10	1.000000
rad60syn	8.77470e-11	1.000000	8.77477e-11	1.000000
rad4	7.52478e-11	1.000000	7.52485e-11	1.000000
rad60anti	2.79176e-11	1.000000	2.79179e-11	1.000000
rad13	2.25767e-11	1.000000	2.25768e-11	1.000000
PAH3+H	1.70903e-13	1.000000	1.70904e-13	1.000000
rad59	5.81986e-14	1.000000	5.81991e-14	1.000000
rad33	4.34049e-14	1.000000	4.34051e-14	1.000000
rad14	3.34265e-14	1.000000	3.34267e-14	1.000000
rad25	2.11443e-14	1.000000	2.11445e-14	1.000000
rad27	1.72837e-14	1.000000	1.72839e-14	1.000000
rad19syn	1.02782e-14	1.000000	1.02783e-14	1.000000
rad50	6.03324e-15	1.000000	6.03329e-15	1.000000
rad54	1.03910e-16	1.000000	1.03911e-16	1.000000
PAH10+CH3	7.11249e-17	1.000000	7.11255e-17	1.000000
rad43	1.72757e-17	1.000000	1.72758e-17	1.000000
rad62	2.69504e-18	1.000000	2.69505e-18	1.000000
rad31	7.40163e-19	1.000000	7.40168e-19	1.000000
rad52	4.03131e-19	1.000000	4.03135e-19	1.000000
rad23	3.34330e-19	1.000000	3.34332e-19	1.000000
rad20	2.32212e-19	1.000000	2.32214e-19	1.000000
rad21	1.76374e-19	1.000000	1.76376e-19	1.000000
PhcycC3H3_A+H	4.38800e-20	1.000000	4.38804e-20	1.000000
rad70	3.33124e-20	1.000000	3.33127e-20	1.000000
rad55	1.42051e-20	1.000000	1.42052e-20	1.000000
rad51	3.10101e-21	1.000000	3.10104e-21	1.000000
rad45	2.33655e-21	1.000000	2.33657e-21	1.000000
rad22	1.24132e-21	1.000000	1.24133e-21	1.000000
rad18	9.83945e-22	1.000000	9.83953e-22	1.000000
PAH1+H	4.73237e-22	1.000000	4.73241e-22	1.000000
rad36	1.45712e-22	1.000000	1.45714e-22	1.000000
rad58	3.02015e-23	1.000000	3.02017e-23	1.000000
rad34	2.08624e-23	1.000000	2.08626e-23	1.000000
rad65	1.35298e-23	1.000000	1.35299e-23	1.000000
rad42	2.03911e-25	1.000000	2.03913e-25	1.000000

rad41	5.49073e-26	1.00000	5.49078e-26	1.00000
rad24	1.64595e-26	1.00000	1.64597e-26	1.00000
rad47	1.27096e-33	1.00000	1.27097e-33	1.00000

0.100000000E-03 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.82690e-17 (1.00)	1.82688e-17 (1.00)
Formation of rad11	1.55456e-17 (0.851)	1.55454e-17 (0.851)
Formation of rad6	2.49126e-18 (0.136)	2.49124e-18 (0.136)
H-abstraction	2.32112e-19 (0.0127)	2.32112e-19 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.960389	0.960389	0.960399	0.960399
C2H2+PhCH2	0.0147660	0.975155	0.0147662	0.975165
Benzene+2-propynyl	0.0127053	0.987860	0.0127054	0.987870
PhCCH+CH3	0.00627559	0.994136	0.00627565	0.994146
PhCHCCH2+H	0.00338806	0.997524	0.00338810	0.997534
PhCCCH3+H	0.00218963	0.999714	0.00218965	0.999724
Ph+MeAc	0.000173994	0.999888	0.000173996	0.999898
rad6	4.04462e-05	0.999928	4.04467e-05	0.999938
rad8	2.47111e-05	0.999953	2.47114e-05	0.999963
rad9	1.88328e-05	0.999971	1.88330e-05	0.999982
PAH7+H	1.25043e-05	0.999984	1.25044e-05	0.999994
Phenyl+Allene	1.06065e-05	0.999995	0.00000	0.999994
rad39	2.37567e-06	0.999997	2.37570e-06	0.999997
rad12	1.31627e-06	0.999998	1.31629e-06	0.999998
rad30	1.02166e-06	0.999999	1.02168e-06	0.999999
PAH9+H	2.40798e-07	1.000000	2.40800e-07	0.999999
rad15	2.23328e-07	1.000000	2.23330e-07	0.999999
rad35	1.12419e-07	1.000000	1.12420e-07	0.999999
PhCH2CCH+H	1.01870e-07	1.000000	1.01871e-07	1.000000
rad38	6.84433e-08	1.000000	6.84441e-08	1.000000
rad28	5.66855e-08	1.000000	5.66862e-08	1.000000
rad2	1.72547e-08	1.000000	1.72548e-08	1.000000
rad37	1.60757e-08	1.000000	1.60758e-08	1.000000
rad26	5.42633e-09	1.000000	5.42639e-09	1.000000
rad7	3.00025e-09	1.000000	3.00029e-09	1.000000
rad1	1.17252e-09	1.000000	1.17253e-09	1.000000
rad46	9.44779e-10	1.000000	9.44789e-10	1.000000
rad10	8.89917e-10	1.000000	8.89927e-10	1.000000
rad11	7.39172e-10	1.000000	7.39180e-10	1.000000
rad5	2.33639e-10	1.000000	2.33642e-10	1.000000
rad60syn	1.11477e-10	1.000000	1.11478e-10	1.000000
rad3	1.09475e-10	1.000000	1.09476e-10	1.000000
rad4	5.64412e-11	1.000000	5.64418e-11	1.000000
rad60anti	3.65523e-11	1.000000	3.65527e-11	1.000000
rad13	1.69596e-11	1.000000	1.69597e-11	1.000000
PAH3+H	3.34270e-13	1.000000	3.34273e-13	1.000000
rad59	1.10384e-13	1.000000	1.10384e-13	1.000000
rad33	3.26646e-14	1.000000	3.26650e-14	1.000000
rad19syn	3.23427e-14	1.000000	3.23431e-14	1.000000
rad14	2.57704e-14	1.000000	2.57707e-14	1.000000
rad25	1.62388e-14	1.000000	1.62390e-14	1.000000
rad27	1.30694e-14	1.000000	1.30696e-14	1.000000
rad50	1.17392e-14	1.000000	1.17393e-14	1.000000
rad54	4.01064e-16	1.000000	4.01068e-16	1.000000
PAH10+CH3	2.74479e-16	1.000000	2.74482e-16	1.000000
rad43	6.64337e-17	1.000000	6.64344e-17	1.000000
rad62	1.17435e-17	1.000000	1.17437e-17	1.000000
rad52	1.25829e-18	1.000000	1.25830e-18	1.000000
rad31	6.15903e-19	1.000000	6.15910e-19	1.000000
PhcycC3H3_A+H	2.69594e-19	1.000000	2.69597e-19	1.000000
rad23	2.66274e-19	1.000000	2.66277e-19	1.000000
rad70	1.93268e-19	1.000000	1.93270e-19	1.000000
rad20	1.87590e-19	1.000000	1.87592e-19	1.000000
rad21	1.42957e-19	1.000000	1.42959e-19	1.000000
rad55	8.39568e-20	1.000000	8.39577e-20	1.000000
rad51	1.40611e-20	1.000000	1.40612e-20	1.000000
PAH1+H	3.58691e-21	1.000000	3.58695e-21	1.000000
rad45	1.86092e-21	1.000000	1.86094e-21	1.000000
rad22	9.46795e-22	1.000000	9.46805e-22	1.000000
rad18	7.92559e-22	1.000000	7.92567e-22	1.000000
rad58	1.90924e-22	1.000000	1.90926e-22	1.000000
rad34	1.67709e-22	1.000000	1.67711e-22	1.000000
rad36	1.16301e-22	1.000000	1.16302e-22	1.000000
rad65	7.39943e-23	1.000000	7.39951e-23	1.000000
rad42	1.88842e-24	1.000000	1.88844e-24	1.000000

rad41	5.19531e-25	1.00000	5.19537e-25	1.000000
rad24	1.48348e-26	1.00000	1.48349e-26	1.000000
rad47	7.48906e-33	1.00000	7.48913e-33	1.000000

0.100000000E-03 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.85520e-17 (1.00)	2.85517e-17 (1.00)
Formation of rad11	2.39009e-17 (0.837)	2.39006e-17 (0.837)
Formation of rad6	4.19900e-18 (0.147)	4.19894e-18 (0.147)
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.955560	0.955560	0.955573	0.955573
Benzene+2-propynyl	0.0158346	0.971394	0.0158348	0.971408
C2H2+PhCH2	0.00155194	0.986914	0.00155196	0.986928
PhCCH+CH3	0.00679139	0.993705	0.00679148	0.993719
PhCHCCH2+H	0.00362508	0.997330	0.00362513	0.997344
PhCCCH3+H	0.00234985	0.999680	0.00234988	0.999694
Ph+MeAc	0.000206446	0.999886	0.000206449	0.999901
rad6	3.04172e-05	0.999917	3.04177e-05	0.999931
rad8	2.70937e-05	0.999944	2.70941e-05	0.999958
rad9	2.14879e-05	0.999965	2.14883e-05	0.999980
PAH7+H	1.44446e-05	0.999980	1.44448e-05	0.999994
Phenyl+Allene	1.37855e-05	0.999994	0.00000	0.999994
rad39	2.82560e-06	0.999996	2.82564e-06	0.999997
rad12	1.48635e-06	0.999998	1.48636e-06	0.999998
rad30	1.09878e-06	0.999999	1.09879e-06	0.999999
PAH9+H	2.63424e-07	0.999999	2.63428e-07	1.000000
rad15	2.44190e-07	1.000000	2.44193e-07	1.000000
PhCH2CCH+H	1.62103e-07	1.000000	1.62106e-07	1.000000
rad35	1.21613e-07	1.000000	1.21615e-07	1.000000
rad38	7.55293e-08	1.000000	7.55303e-08	1.000000
rad28	4.31551e-08	1.000000	4.31556e-08	1.000000
rad37	2.26924e-08	1.000000	2.26927e-08	1.000000
rad2	1.29723e-08	1.000000	1.29725e-08	1.000000
rad26	4.12278e-09	1.000000	4.12284e-09	1.000000
rad7	2.26096e-09	1.000000	2.26099e-09	1.000000
rad46	1.10872e-09	1.000000	1.10874e-09	1.000000
rad1	8.88977e-10	1.000000	8.88990e-10	1.000000
rad10	6.70682e-10	1.000000	6.70692e-10	1.000000
rad11	5.57259e-10	1.000000	5.57267e-10	1.000000
rad5	3.85019e-10	1.000000	3.85024e-10	1.000000
rad60syn	1.41280e-10	1.000000	1.41282e-10	1.000000
rad3	8.23784e-11	1.000000	8.23795e-11	1.000000
rad60anti	4.76072e-11	1.000000	4.76079e-11	1.000000
rad4	4.25723e-11	1.000000	4.25729e-11	1.000000
rad13	1.28038e-11	1.000000	1.28040e-11	1.000000
PAH3+H	6.24240e-13	1.000000	6.24249e-13	1.000000
rad59	2.00210e-13	1.000000	2.00213e-13	1.000000
rad19syn	9.18598e-14	1.000000	9.18611e-14	1.000000
rad33	2.47079e-14	1.000000	2.47082e-14	1.000000
rad50	2.19524e-14	1.000000	2.19528e-14	1.000000
rad14	1.99807e-14	1.000000	1.99809e-14	1.000000
rad25	1.25445e-14	1.000000	1.25446e-14	1.000000
rad27	9.93791e-15	1.000000	9.93800e-15	1.000000
rad54	1.36925e-15	1.000000	1.36927e-15	1.000000
PAH10+CH3	9.35356e-16	1.000000	9.35369e-16	1.000000
rad43	2.25306e-16	1.000000	2.25309e-16	1.000000
rad62	4.46068e-17	1.000000	4.46075e-17	1.000000
rad52	3.57324e-18	1.000000	3.57329e-18	1.000000
PhcycC3H3_A+H	1.39624e-18	1.000000	1.39625e-18	1.000000
rad70	9.49093e-19	1.000000	9.49105e-19	1.000000
rad31	5.29769e-19	1.000000	5.29777e-19	1.000000
rad55	4.19469e-19	1.000000	4.19475e-19	1.000000
rad23	2.20400e-19	1.000000	2.20403e-19	1.000000
rad20	1.52666e-19	1.000000	1.52669e-19	1.000000
rad21	1.16754e-19	1.000000	1.16755e-19	1.000000
rad51	5.58674e-20	1.000000	5.58682e-20	1.000000
PAH1+H	2.22687e-20	1.000000	2.22690e-20	1.000000
rad45	1.54129e-21	1.000000	1.54132e-21	1.000000
rad34	1.09594e-21	1.000000	1.09595e-21	1.000000
rad58	1.01518e-21	1.000000	1.01519e-21	1.000000
rad22	7.29476e-22	1.000000	7.29487e-22	1.000000
rad18	6.42646e-22	1.000000	6.42656e-22	1.000000
rad65	3.46640e-22	1.000000	3.46645e-22	1.000000
rad36	9.65724e-23	1.000000	9.65738e-23	1.000000
rad42	1.39277e-23	1.000000	1.39279e-23	1.000000

rad41	3.90300e-24	1.00000	3.90306e-24	1.00000
rad24	1.35501e-26	1.00000	1.35503e-26	1.00000
rad47	3.66169e-32	1.00000	3.66173e-32	1.00000

0.100000000E-03 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.29529e-17 (1.00)	4.29521e-17 (1.00)
Formation of rad11	3.53712e-17 (0.823)	3.53705e-17 (0.823)
Formation of rad6	6.75433e-18 (0.157)	6.75421e-18 (0.157)
H-abstraction	8.27372e-19 (0.0193)	8.27372e-19 (0.0193)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.950306	0.950306	0.950324	0.950324
Benzene+2-propynyl	0.0192623	0.969569	0.0192627	0.969586
C2H2+PhCH2	0.0163253	0.985894	0.0163255	0.985912
PhCCH+CH3	0.00734623	0.993240	0.00734635	0.993258
PhCHCCH2+H	0.00387733	0.997118	0.00387739	0.997136
PhCCCH3+H	0.00251960	0.999637	0.00251965	0.999655
Ph+MeAc	0.000243905	0.999881	0.000243909	0.999899
rad8	2.96716e-05	0.999911	2.96722e-05	0.999929
rad9	2.45051e-05	0.999935	2.45055e-05	0.999953
rad6	2.29740e-05	0.999958	2.29744e-05	0.999976
Phenyl+Allene	1.78012e-05	0.999976	0.00000	0.999976
PAH7+H	1.66818e-05	0.999993	1.66820e-05	0.999993
rad39	3.35378e-06	0.999996	3.35384e-06	0.999996
rad12	1.67464e-06	0.999998	1.67467e-06	0.999998
rad30	1.18327e-06	0.999999	1.18329e-06	0.999999
PAH9+H	2.88844e-07	0.999999	2.88849e-07	1.000000
rad15	2.67401e-07	0.999999	2.67406e-07	1.000000
PhCH2CCH+H	2.51299e-07	1.000000	2.51304e-07	1.000000
rad35	1.31821e-07	1.000000	1.31824e-07	1.000000
rad38	8.35533e-08	1.000000	8.35548e-08	1.000000
rad28	3.29772e-08	1.000000	3.29778e-08	1.000000
rad37	3.11528e-08	1.000000	3.11534e-08	1.000000
rad2	9.80172e-09	1.000000	9.80189e-09	1.000000
rad26	3.14579e-09	1.000000	3.14585e-09	1.000000
rad7	1.71135e-09	1.000000	1.71138e-09	1.000000
rad46	1.30476e-09	1.000000	1.30478e-09	1.000000
rad1	6.77866e-10	1.000000	6.77878e-10	1.000000
rad5	6.12226e-10	1.000000	6.12237e-10	1.000000
rad10	5.08053e-10	1.000000	5.08062e-10	1.000000
rad11	4.21980e-10	1.000000	4.21988e-10	1.000000
rad60syn	1.78595e-10	1.000000	1.78599e-10	1.000000
rad3	6.22985e-11	1.000000	6.22997e-11	1.000000
rad60anti	6.17019e-11	1.000000	6.17031e-11	1.000000
rad4	3.22789e-11	1.000000	3.22795e-11	1.000000
rad13	9.70965e-12	1.000000	9.70982e-12	1.000000
PAH3+H	1.12043e-12	1.000000	1.12045e-12	1.000000
rad59	3.49538e-13	1.000000	3.49545e-13	1.000000
rad19syn	2.38904e-13	1.000000	2.38908e-13	1.000000
rad50	3.96702e-14	1.000000	3.96708e-14	1.000000
rad33	1.87749e-14	1.000000	1.87753e-14	1.000000
rad14	1.55726e-14	1.000000	1.55729e-14	1.000000
rad25	9.74287e-15	1.000000	9.74305e-15	1.000000
rad27	7.59545e-15	1.000000	7.59559e-15	1.000000
rad54	4.20658e-15	1.000000	4.20666e-15	1.000000
PAH10+CH3	2.86318e-15	1.000000	2.86322e-15	1.000000
rad43	6.85556e-16	1.000000	6.85569e-16	1.000000
rad62	1.50499e-16	1.000000	1.50502e-16	1.000000
rad52	9.35960e-18	1.000000	9.35976e-18	1.000000
PhcycC3H3_A+H	6.23402e-18	1.000000	6.23414e-18	1.000000
rad70	4.03455e-18	1.000000	4.03463e-18	1.000000
rad55	1.81196e-18	1.000000	1.81199e-18	1.000000
rad31	4.75145e-19	1.000000	4.75154e-19	1.000000
rad51	1.98053e-19	1.000000	1.98057e-19	1.000000
rad23	1.90735e-19	1.000000	1.90738e-19	1.000000
rad20	1.25110e-19	1.000000	1.25112e-19	1.000000
PAH1+H	1.16245e-19	1.000000	1.16247e-19	1.000000
rad21	9.60377e-20	1.000000	9.60394e-20	1.000000
rad34	5.98155e-21	1.000000	5.98165e-21	1.000000
rad58	4.64357e-21	1.000000	4.64364e-21	1.000000
rad65	1.42012e-21	1.000000	1.42014e-21	1.000000
rad45	1.33591e-21	1.000000	1.33593e-21	1.000000
rad22	5.67509e-22	1.000000	5.67518e-22	1.000000
rad18	5.24287e-22	1.000000	5.24296e-22	1.000000
rad42	8.43080e-23	1.000000	8.43095e-23	1.000000
rad36	8.39547e-23	1.000000	8.39561e-23	1.000000

rad41	2.40038e-23	1.000000	2.40042e-23	1.00000
rad24	1.25439e-26	1.000000	1.25442e-26	1.00000
rad47	1.52480e-31	1.000000	1.52483e-31	1.00000

0.100000000E-03 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.25016e-17 (1.00)	6.25002e-17 (1.00)
Formation of rad11	5.06355e-17 (0.810)	5.06343e-17 (0.810)
Formation of rad6	1.04318e-17 (0.167)	1.04316e-17 (0.167)
H-abstraction	1.43428e-18 (0.0229)	1.43428e-18 (0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.944665	0.944665	0.944686	0.944686
Benzene+2-propynyl	0.0229478	0.967613	0.0229483	0.967634
C2H2+PhCH2	0.0171870	0.984800	0.0171874	0.984822
PhCCH+CH3	0.00794143	0.992741	0.00794161	0.992763
PhCHCCH2+H	0.00414509	0.996886	0.00414518	0.996908
PhCCCH3+H	0.00269883	0.999585	0.00269889	0.999607
Ph+MeAc	0.000286898	0.999872	0.000286904	0.999894
rad8	3.24509e-05	0.999904	3.24517e-05	0.999927
rad9	2.79267e-05	0.999932	2.79274e-05	0.999955
Phenyl+Allene	2.28443e-05	0.999955	0.00000	0.999955
PAH7+H	1.92569e-05	0.999974	1.92574e-05	0.999974
rad6	1.74192e-05	0.999992	1.74197e-05	0.999991
rad39	3.97202e-06	0.999996	3.97212e-06	0.999995
rad12	1.88222e-06	0.999998	1.88226e-06	0.999997
rad30	1.27582e-06	0.999999	1.27585e-06	0.999998
PhCH2CCH+H	3.80695e-07	0.999999	3.80703e-07	0.999999
PAH9+H	3.17423e-07	1.000000	3.17429e-07	0.999999
rad15	2.93216e-07	1.000000	2.93223e-07	0.999999
rad35	1.43161e-07	1.000000	1.43163e-07	1.000000
rad38	9.26459e-08	1.000000	9.26480e-08	1.000000
rad37	4.17641e-08	1.000000	4.17651e-08	1.000000
rad28	2.52835e-08	1.000000	2.52840e-08	1.000000
rad2	7.44124e-09	1.000000	7.44141e-09	1.000000
rad26	2.40965e-09	1.000000	2.40970e-09	1.000000
rad46	1.53926e-09	1.000000	1.53929e-09	1.000000
rad7	1.30046e-09	1.000000	1.30049e-09	1.000000
rad5	9.43418e-10	1.000000	9.43439e-10	1.000000
rad1	5.19732e-10	1.000000	5.19744e-10	1.000000
rad10	3.86706e-10	1.000000	3.86714e-10	1.000000
rad11	3.20814e-10	1.000000	3.20822e-10	1.000000
rad60syn	2.25172e-10	1.000000	2.25177e-10	1.000000
rad60anti	7.95959e-11	1.000000	7.95978e-11	1.000000
rad3	4.73326e-11	1.000000	4.73338e-11	1.000000
rad4	2.45940e-11	1.000000	2.45945e-11	1.000000
rad13	7.39288e-12	1.000000	7.39306e-12	1.000000
PAH3+H	1.94316e-12	1.000000	1.94321e-12	1.000000
rad59	5.90465e-13	1.000000	5.90478e-13	1.000000
rad19syn	5.75707e-13	1.000000	5.75719e-13	1.000000
rad50	6.95795e-14	1.000000	6.95810e-14	1.000000
rad33	1.43259e-14	1.000000	1.43262e-14	1.000000
rad14	1.21962e-14	1.000000	1.21964e-14	1.000000
rad54	1.17935e-14	1.000000	1.17937e-14	1.000000
PAH10+CH3	7.98359e-15	1.000000	7.98378e-15	1.000000
rad25	7.60517e-15	1.000000	7.60534e-15	1.000000
rad27	5.83286e-15	1.000000	5.83300e-15	1.000000
rad43	1.89811e-15	1.000000	1.89816e-15	1.000000
rad62	4.58013e-16	1.000000	4.58023e-16	1.000000
PhcycC3H3_A+H	2.44380e-17	1.000000	2.44385e-17	1.000000
rad52	2.28660e-17	1.000000	2.28666e-17	1.000000
rad70	1.51196e-17	1.000000	1.51199e-17	1.000000
rad55	6.89167e-18	1.000000	6.89183e-18	1.000000
rad51	6.35610e-19	1.000000	6.35624e-19	1.000000
PAH1+H	5.21305e-19	1.000000	5.21317e-19	1.000000
rad31	4.48816e-19	1.000000	4.48826e-19	1.000000
rad23	1.73878e-19	1.000000	1.73882e-19	1.000000
rad20	1.03206e-19	1.000000	1.03208e-19	1.000000
rad21	7.95382e-20	1.000000	7.95400e-20	1.000000
rad34	2.78833e-20	1.000000	2.78839e-20	1.000000
rad58	1.86098e-20	1.000000	1.86102e-20	1.000000
rad65	5.17324e-21	1.000000	5.17335e-21	1.000000
rad45	1.22100e-21	1.000000	1.22103e-21	1.000000
rad22	4.45821e-22	1.000000	4.45832e-22	1.000000
rad18	4.30167e-22	1.000000	4.30176e-22	1.000000
rad42	4.29453e-22	1.000000	4.29462e-22	1.000000
rad41	1.23961e-22	1.000000	1.23963e-22	1.000000

rad36	7.69998e-23	1.00000	7.70015e-23	1.000000
rad24	1.17730e-26	1.00000	1.17732e-26	1.000000
rad47	5.52562e-31	1.00000	5.52574e-31	1.000000

0.100000000E-03 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83247e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04056e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55477e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.938672	0.938672	0.938699	0.938699
Benzene+2-propynyl	0.0268483	0.965520	0.0268490	0.965549
C2H2+PhCH2	0.0181081	0.983628	0.0181087	0.983657
PhCCH+CH3	0.00857818	0.992207	0.00857842	0.992236
PhCHCCH2+H	0.00442858	0.996635	0.00442871	0.996664
PhCCCH3+H	0.00288735	0.999522	0.00288744	0.999552
Ph+MeAc	0.000335960	0.999858	0.000335970	0.999888
rad8	3.54359e-05	0.999894	3.54369e-05	0.999923
rad9	3.17986e-05	0.999926	3.17996e-05	0.999955
Phenyl+Allene	2.91422e-05	0.999955	0.00000	0.999955
PAH7+H	2.22156e-05	0.999977	2.22163e-05	0.999977
rad6	1.32535e-05	0.999990	1.32539e-05	0.999990
rad39	4.69349e-06	0.999995	4.69363e-06	0.999995
rad12	2.11004e-06	0.999997	2.11010e-06	0.999997
rad30	1.37718e-06	0.999998	1.37722e-06	0.999999
PhCH2CCH+H	5.64989e-07	0.999999	5.65005e-07	0.999999
PAH9+H	3.49569e-07	0.999999	3.49578e-07	1.000000
rad15	3.21915e-07	1.000000	3.21923e-07	1.000000
rad35	1.55761e-07	1.000000	1.55765e-07	1.000000
rad38	1.02955e-07	1.000000	1.02957e-07	1.000000
rad37	5.48577e-08	1.000000	5.48593e-08	1.000000
rad28	1.94423e-08	1.000000	1.94429e-08	1.000000
rad2	5.67428e-09	1.000000	5.67444e-09	1.000000
rad26	1.85232e-09	1.000000	1.85237e-09	1.000000
rad46	1.81978e-09	1.000000	1.81983e-09	1.000000
rad5	1.41384e-09	1.000000	1.41388e-09	1.000000
rad7	9.91758e-10	1.000000	9.91787e-10	1.000000
rad1	4.00577e-10	1.000000	4.00588e-10	1.000000
rad10	2.95683e-10	1.000000	2.95692e-10	1.000000
rad60syn	2.83111e-10	1.000000	2.83120e-10	1.000000
rad11	2.44781e-10	1.000000	2.44787e-10	1.000000
rad60anti	1.02214e-10	1.000000	1.02217e-10	1.000000
rad3	3.61219e-11	1.000000	3.61230e-11	1.000000
rad4	1.88265e-11	1.000000	1.88271e-11	1.000000
rad13	5.64948e-12	1.000000	5.64964e-12	1.000000
PAH3+H	3.27019e-12	1.000000	3.27029e-12	1.000000
rad19syn	1.29805e-12	1.000000	1.29809e-12	1.000000
rad59	9.69184e-13	1.000000	9.69213e-13	1.000000
rad50	1.18867e-13	1.000000	1.18870e-13	1.000000
rad54	3.05219e-14	1.000000	3.05228e-14	1.000000
PAH10+CH3	2.05132e-14	1.000000	2.05138e-14	1.000000
rad33	1.09724e-14	1.000000	1.09728e-14	1.000000
rad14	9.59546e-15	1.000000	9.59575e-15	1.000000
rad25	5.96480e-15	1.000000	5.96497e-15	1.000000
rad43	4.83804e-15	1.000000	4.83818e-15	1.000000
rad27	4.49956e-15	1.000000	4.49968e-15	1.000000
rad62	1.27328e-15	1.000000	1.27332e-15	1.000000
PhcycC3H3_A+H	8.53793e-17	1.000000	8.53818e-17	1.000000
rad52	5.25738e-17	1.000000	5.25754e-17	1.000000
rad70	5.07017e-17	1.000000	5.07031e-17	1.000000
rad55	2.34265e-17	1.000000	2.34271e-17	1.000000
PAH1+H	2.04458e-18	1.000000	2.04464e-18	1.000000
rad51	1.86827e-18	1.000000	1.86831e-18	1.000000
rad31	4.50730e-19	1.000000	4.50742e-19	1.000000
rad23	1.68497e-19	1.000000	1.68502e-19	1.000000
rad34	1.13100e-19	1.000000	1.13103e-19	1.000000
rad20	8.56773e-20	1.000000	8.56799e-20	1.000000
rad58	6.63356e-20	1.000000	6.63375e-20	1.000000
rad21	6.63081e-20	1.000000	6.63100e-20	1.000000
rad65	1.69842e-20	1.000000	1.69847e-20	1.000000
rad42	1.87976e-21	1.000000	1.87981e-21	1.000000
rad45	1.18789e-21	1.000000	1.18792e-21	1.000000
rad41	5.49085e-22	1.000000	5.49101e-22	1.000000
rad18	3.54834e-22	1.000000	3.54845e-22	1.000000
rad22	3.53916e-22	1.000000	3.53926e-22	1.000000

rad36	7.52088e-23	1.00000	7.52109e-23	1.00000
rad24	1.12076e-26	1.00000	1.12079e-26	1.00000
rad47	1.77412e-30	1.00000	1.77418e-30	1.00000

0.100000000E-03 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.21641e-16 (1.00)	1.21637e-16 (1.00)
Formation of rad11	9.54219e-17 (0.784)	9.54182e-17 (0.784)
Formation of rad6	2.24583e-17 (0.185)	2.24574e-17 (0.185)
H-abstraction	3.76121e-18 (0.0309)	3.76121e-18 (0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.932367	0.932367	0.932401	0.932401
Benzene+2-propynyl	0.0309205	0.963287	0.0309216	0.963322
C2H2+PhCH2	0.0190922	0.982380	0.0190929	0.982415
PhCCH+CH3	0.00925737	0.991637	0.00925772	0.991673
PhCHCCH2+H	0.00472793	0.996365	0.00472810	0.996401
PhCCCH3+H	0.00308489	0.999450	0.00308500	0.999486
Ph+MeAc	0.000391628	0.999841	0.000391642	0.999878
rad8	3.86291e-05	0.999880	3.86305e-05	0.999916
Phenyl+Allene	3.69633e-05	0.999917	0.000000	0.999916
rad9	3.61702e-05	0.999953	3.61715e-05	0.999952
PAH7+H	2.56080e-05	0.999979	2.56090e-05	0.999978
rad6	1.01160e-05	0.999989	1.01164e-05	0.999988
rad39	5.53279e-06	0.999994	5.53299e-06	0.999994
rad12	2.35892e-06	0.999997	2.35901e-06	0.999996
rad30	1.48809e-06	0.999998	1.48815e-06	0.999998
PhCH2CCH+H	8.23157e-07	0.999999	8.23188e-07	0.999998
PAH9+H	3.85738e-07	1.000000	3.85752e-07	0.999999
rad15	3.53794e-07	1.000000	3.53808e-07	0.999999
rad35	1.69766e-07	1.000000	1.69773e-07	0.999999
rad38	1.14644e-07	1.000000	1.14649e-07	0.999999
rad37	7.07896e-08	1.000000	7.07922e-08	0.999999
rad28	1.49907e-08	1.000000	1.49913e-08	1.000000
rad2	4.34609e-09	1.000000	4.34625e-09	1.000000
rad46	2.15530e-09	1.000000	2.15538e-09	1.000000
rad5	2.06675e-09	1.000000	2.06682e-09	1.000000
rad26	1.42859e-09	1.000000	1.42863e-09	1.000000
rad7	7.58791e-10	1.000000	7.58819e-10	1.000000
rad60syn	3.54927e-10	1.000000	3.54940e-10	1.000000
rad1	3.10370e-10	1.000000	3.10382e-10	1.000000
rad10	2.27107e-10	1.000000	2.27115e-10	1.000000
rad11	1.87379e-10	1.000000	1.87387e-10	1.000000
rad60anti	1.30676e-10	1.000000	1.30680e-10	1.000000
rad3	2.76844e-11	1.000000	2.76854e-11	1.000000
rad4	1.44770e-11	1.000000	1.44775e-11	1.000000
PAH3+H	5.35901e-12	1.000000	5.35921e-12	1.000000
rad13	4.33161e-12	1.000000	4.33177e-12	1.000000
rad19syn	2.76052e-12	1.000000	2.76062e-12	1.000000
rad59	1.55095e-12	1.000000	1.55101e-12	1.000000
rad50	1.98345e-13	1.000000	1.98353e-13	1.000000
rad54	7.36085e-14	1.000000	7.36112e-14	1.000000
PAH10+CH3	4.90329e-14	1.000000	4.90347e-14	1.000000
rad43	1.14628e-14	1.000000	1.14631e-14	1.000000
rad33	8.43313e-15	1.000000	8.43344e-15	1.000000
rad14	7.58226e-15	1.000000	7.58254e-15	1.000000
rad25	4.69955e-15	1.000000	4.69972e-15	1.000000
rad27	3.48616e-15	1.000000	3.48629e-15	1.000000
rad62	3.26751e-15	1.000000	3.26763e-15	1.000000
PhcycC3H3_A+H	2.69168e-16	1.000000	2.69178e-16	1.000000
rad70	1.54026e-16	1.000000	1.54032e-16	1.000000
rad52	1.14586e-16	1.000000	1.14591e-16	1.000000
rad55	7.20516e-17	1.000000	7.20544e-17	1.000000
PAH1+H	7.11909e-18	1.000000	7.11935e-18	1.000000
rad51	5.07675e-18	1.000000	5.07693e-18	1.000000
rad31	4.84237e-19	1.000000	4.84255e-19	1.000000
rad34	4.05496e-19	1.000000	4.05511e-19	1.000000
rad58	2.12962e-19	1.000000	2.12970e-19	1.000000
rad23	1.75425e-19	1.000000	1.75431e-19	1.000000
rad20	7.15646e-20	1.000000	7.15672e-20	1.000000
rad21	5.56342e-20	1.000000	5.56362e-20	1.000000
rad65	5.08098e-20	1.000000	5.08117e-20	1.000000
rad42	7.19599e-21	1.000000	7.19625e-21	1.000000
rad41	2.12391e-21	1.000000	2.12399e-21	1.000000
rad45	1.24392e-21	1.000000	1.24397e-21	1.000000
rad18	2.94180e-22	1.000000	2.94191e-22	1.000000
rad22	2.84481e-22	1.000000	2.84491e-22	1.000000

rad36	7.91119e-23	1.00000	7.91148e-23	1.000000
rad24	1.08300e-26	1.00000	1.08304e-26	1.000000
rad47	5.12366e-30	1.00000	5.12385e-30	1.000000

0.100000000E-03 Pa, 260.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.63720e-16	(1.00)	1.63713e-16	(1.00)
Formation of rad11	1.26419e-16	(0.772)	1.26413e-16	(0.772)
Formation of rad6	3.15515e-17	(0.193)	3.15499e-17	(0.193)
H-abstraction	5.75028e-18	(0.0351)	5.75028e-18	(0.0351)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.925786	0.925786	0.925829	0.925829
Benzene+2-propynyl	0.0351226	0.960909	0.0351242	0.960953
C2H2+PhCH2	0.0201428	0.981052	0.0201437	0.981097
PhCCH+CH3	0.00997973	0.991031	0.00998019	0.991077
PhCHCCH2+H	0.00504314	0.996075	0.00504338	0.996121
PhCCCH3+H	0.00329104	0.999366	0.00329120	0.999412
Ph+MeAc	0.000454426	0.999820	0.000454447	0.999866
Phenyl+Allene	4.66229e-05	0.999867	0.000000	0.999866
rad8	4.20314e-05	0.999909	4.20334e-05	0.999908
rad9	4.10946e-05	0.999950	4.10965e-05	0.999949
PAH7+H	2.94895e-05	0.999979	2.94909e-05	0.999979
rad6	7.74358e-06	0.999987	7.74393e-06	0.999987
rad39	6.50602e-06	0.999994	6.50632e-06	0.999993
rad12	2.62955e-06	0.999996	2.62967e-06	0.999996
rad30	1.60938e-06	0.999998	1.60946e-06	0.999997
PhCH2CCH+H	1.17940e-06	0.999999	1.17944e-06	0.999999
PAH9+H	4.26439e-07	0.999999	4.26459e-07	0.999999
rad15	3.89178e-07	1.000000	3.89196e-07	0.999999
rad35	1.85334e-07	1.000000	1.85343e-07	1.000000
rad38	1.27902e-07	1.000000	1.27908e-07	1.000000
rad37	8.99386e-08	1.000000	8.99428e-08	1.000000
rad28	1.15864e-08	1.000000	1.15870e-08	1.000000
rad2	3.34368e-09	1.000000	3.34383e-09	1.000000
rad5	2.95422e-09	1.000000	2.95436e-09	1.000000
rad46	2.55638e-09	1.000000	2.55650e-09	1.000000
rad26	1.10519e-09	1.000000	1.10525e-09	1.000000
rad7	5.82283e-10	1.000000	5.82310e-10	1.000000
rad60syn	4.43610e-10	1.000000	4.43631e-10	1.000000
rad1	2.41769e-10	1.000000	2.41781e-10	1.000000
rad10	1.75232e-10	1.000000	1.75240e-10	1.000000
rad60anti	1.66325e-10	1.000000	1.66333e-10	1.000000
rad11	1.43872e-10	1.000000	1.43878e-10	1.000000
rad3	2.13062e-11	1.000000	2.13072e-11	1.000000
rad4	1.11818e-11	1.000000	1.11823e-11	1.000000
PAH3+H	8.57555e-12	1.000000	8.57594e-12	1.000000
rad19syn	5.57424e-12	1.000000	5.57450e-12	1.000000
rad13	3.33139e-12	1.000000	3.33154e-12	1.000000
rad59	2.42640e-12	1.000000	2.42651e-12	1.000000
rad50	3.24002e-13	1.000000	3.24017e-13	1.000000
rad54	1.66701e-13	1.000000	1.66708e-13	1.000000
PAH10+CH3	1.09898e-13	1.000000	1.09903e-13	1.000000
rad43	2.54495e-14	1.000000	2.54507e-14	1.000000
rad62	7.80745e-15	1.000000	7.80781e-15	1.000000
rad33	6.50240e-15	1.000000	6.50269e-15	1.000000
rad14	6.01665e-15	1.000000	6.01693e-15	1.000000
rad25	3.71898e-15	1.000000	3.71915e-15	1.000000
rad27	2.71258e-15	1.000000	2.71271e-15	1.000000
PhcycC3H3_A+H	7.73763e-16	1.000000	7.73800e-16	1.000000
rad70	4.28268e-16	1.000000	4.28287e-16	1.000000
rad52	2.38111e-16	1.000000	2.38122e-16	1.000000
rad55	2.02583e-16	1.000000	2.02592e-16	1.000000
PAH1+H	2.22885e-17	1.000000	2.22895e-17	1.000000
rad51	1.28503e-17	1.000000	1.28509e-17	1.000000
rad34	1.30230e-18	1.000000	1.30236e-18	1.000000
rad58	6.22293e-19	1.000000	6.22322e-19	1.000000
rad31	5.56887e-19	1.000000	5.56913e-19	1.000000
rad23	1.98584e-19	1.000000	1.98594e-19	1.000000
rad65	1.39772e-19	1.000000	1.39779e-19	1.000000
rad20	6.01377e-20	1.000000	6.01405e-20	1.000000
rad21	4.69741e-20	1.000000	4.69763e-20	1.000000
rad42	2.44566e-20	1.000000	2.44578e-20	1.000000
rad41	7.28434e-21	1.000000	7.28468e-21	1.000000
rad45	1.41982e-21	1.000000	1.41988e-21	1.000000
rad18	2.45077e-22	1.000000	2.45088e-22	1.000000
rad22	2.32549e-22	1.000000	2.32560e-22	1.000000

rad36	9.07566e-23	1.00000	9.07608e-23	1.000000
rad24	1.06333e-26	1.00000	1.06338e-26	1.000000
rad47	1.34807e-29	1.00000	1.34813e-29	1.000000

0.100000000E-03 Pa, 270.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.15887e-16	(1.00)	2.15874e-16	(1.00)
Formation of rad11	1.64133e-16	(0.760)	1.64123e-16	(0.760)
Formation of rad6	4.32452e-17	(0.200)	4.32425e-17	(0.200)
H-abstraction	8.50919e-18	(0.0394)	8.50919e-18	(0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.918966	0.918966	0.919019	0.919019
Benzene+2-propynyl	0.0394150	0.958381	0.0394173	0.958437
C2H2+PhCH2	0.0212634	0.979644	0.0212647	0.979701
PhCCH+CH3	0.0107456	0.990390	0.0107462	0.990447
PhCHCCH2+H	0.00537415	0.995764	0.00537446	0.995822
PhCCCH3+H	0.00350530	0.999269	0.00350550	0.999327
Ph+MeAc	0.000524857	0.999794	0.000524888	0.999852
Phenyl+Allene	5.84883e-05	0.999853	0.000000	0.999852
rad9	4.66282e-05	0.999899	4.66310e-05	0.999899
rad8	4.56415e-05	0.999945	4.56442e-05	0.999945
PAH7+H	3.39208e-05	0.999979	3.39228e-05	0.999979
rad39	7.63085e-06	0.999986	7.63129e-06	0.999986
rad6	5.94336e-06	0.999992	5.94371e-06	0.999992
rad12	2.92243e-06	0.999995	2.92259e-06	0.999995
rad30	1.74190e-06	0.999997	1.74200e-06	0.999997
PhCH2CCH+H	1.66417e-06	0.999999	1.66427e-06	0.999998
PAH9+H	4.72233e-07	0.999999	4.72261e-07	0.999999
rad15	4.28410e-07	1.000000	4.28435e-07	0.999999
rad35	2.02633e-07	1.000000	2.02645e-07	1.000000
rad38	1.42935e-07	1.000000	1.42943e-07	1.000000
rad37	1.12704e-07	1.000000	1.12711e-07	1.000000
rad28	8.97512e-09	1.000000	8.97565e-09	1.000000
rad5	4.13790e-09	1.000000	4.13815e-09	1.000000
rad46	3.03540e-09	1.000000	3.03558e-09	1.000000
rad2	2.58441e-09	1.000000	2.58455e-09	1.000000
rad26	8.57542e-10	1.000000	8.57593e-10	1.000000
rad60syn	5.52685e-10	1.000000	5.52717e-10	1.000000
rad7	4.48069e-10	1.000000	4.48095e-10	1.000000
rad60anti	2.10767e-10	1.000000	2.10779e-10	1.000000
rad1	1.89380e-10	1.000000	1.89391e-10	1.000000
rad10	1.35859e-10	1.000000	1.35867e-10	1.000000
rad11	1.10775e-10	1.000000	1.10781e-10	1.000000
rad3	1.64737e-11	1.000000	1.64747e-11	1.000000
PAH3+H	1.34303e-11	1.000000	1.34312e-11	1.000000
rad19syn	1.07462e-11	1.000000	1.07468e-11	1.000000
rad4	8.67924e-12	1.000000	8.67975e-12	1.000000
rad59	3.71919e-12	1.000000	3.71941e-12	1.000000
rad13	2.56947e-12	1.000000	2.56962e-12	1.000000
rad50	5.19035e-13	1.000000	5.19064e-13	1.000000
rad54	3.56767e-13	1.000000	3.56788e-13	1.000000
PAH10+CH3	2.32479e-13	1.000000	2.32493e-13	1.000000
rad43	5.33052e-14	1.000000	5.33083e-14	1.000000
rad62	1.74956e-14	1.000000	1.74966e-14	1.000000
rad33	5.02883e-15	1.000000	5.02912e-15	1.000000
rad14	4.79390e-15	1.000000	4.79419e-15	1.000000
rad25	2.95566e-15	1.000000	2.95584e-15	1.000000
rad27	2.11975e-15	1.000000	2.11988e-15	1.000000
PhcycC3H3_A+H	2.04626e-15	1.000000	2.04638e-15	1.000000
rad70	1.09937e-15	1.000000	1.09943e-15	1.000000
rad55	5.25237e-16	1.000000	5.25269e-16	1.000000
rad52	4.73891e-16	1.000000	4.73919e-16	1.000000
PAH1+H	6.34319e-17	1.000000	6.34356e-17	1.000000
rad51	3.04859e-17	1.000000	3.04877e-17	1.000000
rad34	3.78968e-18	1.000000	3.78990e-18	1.000000
rad58	1.67007e-18	1.000000	1.67017e-18	1.000000
rad31	6.81909e-19	1.000000	6.81948e-19	1.000000
rad65	3.56276e-19	1.000000	3.56297e-19	1.000000
rad23	2.47433e-19	1.000000	2.47447e-19	1.000000
rad42	7.47467e-20	1.000000	7.47510e-20	1.000000
rad20	5.08378e-20	1.000000	5.08408e-20	1.000000
rad21	3.99119e-20	1.000000	3.99142e-20	1.000000
rad41	2.24420e-20	1.000000	2.24432e-20	1.000000
rad45	1.78962e-21	1.000000	1.78972e-21	1.000000
rad18	2.05124e-22	1.000000	2.05136e-22	1.000000
rad22	1.95094e-22	1.000000	1.95105e-22	1.000000

rad36	1.15043e-22	1.000000	1.15050e-22	1.000000
rad24	1.06218e-26	1.000000	1.06223e-26	1.000000
rad47	3.26663e-29	1.000000	3.26683e-29	1.000000

0.100000000E-03 Pa, 280.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.79491e-16	(1.00)	2.79471e-16	(1.00)
Formation of rad11	2.09281e-16	(0.749)	2.09265e-16	(0.749)
Formation of rad6	5.79792e-17	(0.207)	5.79748e-17	(0.207)
H-abstraction	1.22310e-17	(0.0438)	1.22310e-17	(0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.911938	0.911938	0.912005	0.912005
Benzene+2-propynyl	0.0437616	0.955699	0.0437648	0.955769
C2H2+PhCH2	0.0224576	0.978157	0.0224592	0.978229
PhCCH+CH3	0.0115551	0.989712	0.0115559	0.989784
PhCHCCH2+H	0.00572076	0.995433	0.00572117	0.995506
PhCCCH3+H	0.00372703	0.999160	0.00372730	0.999233
Ph+MeAc	0.000603395	0.999763	0.000603439	0.999836
Phenyl+Allene	7.29848e-05	0.999836	0.000000	0.999836
rad9	5.28314e-05	0.999889	5.28352e-05	0.999889
rad8	4.94559e-05	0.999939	4.94595e-05	0.999939
PAH7+H	3.89673e-05	0.999978	3.89701e-05	0.999978
rad39	8.92649e-06	0.999986	8.92713e-06	0.999987
rad6	4.57301e-06	0.999991	4.57334e-06	0.999991
rad12	3.23784e-06	0.999994	3.23808e-06	0.999994
PhCH2CCH+H	2.31536e-06	0.999997	2.31552e-06	0.999997
rad30	1.88651e-06	0.999998	1.88664e-06	0.999999
PAH9+H	5.23739e-07	0.999999	5.23778e-07	0.999999
rad15	4.71854e-07	0.999999	4.71889e-07	1.000000
rad35	2.21851e-07	1.000000	2.21867e-07	1.000000
rad38	1.59974e-07	1.000000	1.59986e-07	1.000000
rad37	1.39501e-07	1.000000	1.39511e-07	1.000000
rad28	6.96660e-09	1.000000	6.96710e-09	1.000000
rad5	5.68950e-09	1.000000	5.68992e-09	1.000000
rad46	3.60684e-09	1.000000	3.60710e-09	1.000000
rad2	2.00818e-09	1.000000	2.00832e-09	1.000000
rad60syn	6.86288e-10	1.000000	6.86338e-10	1.000000
rad26	6.67303e-10	1.000000	6.67352e-10	1.000000
rad7	3.45680e-10	1.000000	3.45705e-10	1.000000
rad60anti	2.65900e-10	1.000000	2.65920e-10	1.000000
rad1	1.49278e-10	1.000000	1.49289e-10	1.000000
rad10	1.05893e-10	1.000000	1.05901e-10	1.000000
rad11	8.55143e-11	1.000000	8.55205e-11	1.000000
PAH3+H	2.06226e-11	1.000000	2.06241e-11	1.000000
rad19syn	1.98674e-11	1.000000	1.98688e-11	1.000000
rad3	1.27993e-11	1.000000	1.28002e-11	1.000000
rad4	6.77155e-12	1.000000	6.77204e-12	1.000000
rad59	5.59534e-12	1.000000	5.59575e-12	1.000000
rad13	1.98713e-12	1.000000	1.98728e-12	1.000000
rad50	8.16481e-13	1.000000	8.16541e-13	1.000000
rad54	7.25295e-13	1.000000	7.25348e-13	1.000000
PAH10+CH3	4.66706e-13	1.000000	4.66740e-13	1.000000
rad43	1.05927e-13	1.000000	1.05935e-13	1.000000
rad62	3.69907e-14	1.000000	3.69935e-14	1.000000
PhcycC3H3_A+H	5.01646e-15	1.000000	5.01682e-15	1.000000
rad33	3.90030e-15	1.000000	3.90058e-15	1.000000
rad14	3.83516e-15	1.000000	3.83543e-15	1.000000
rad70	2.62474e-15	1.000000	2.62493e-15	1.000000
rad25	2.35898e-15	1.000000	2.35916e-15	1.000000
rad27	1.66383e-15	1.000000	1.66394e-15	1.000000
rad55	1.26514e-15	1.000000	1.26523e-15	1.000000
rad52	9.06489e-16	1.000000	9.06555e-16	1.000000
PAH1+H	1.65652e-16	1.000000	1.65664e-16	1.000000
rad51	6.81356e-17	1.000000	6.81406e-17	1.000000
rad34	1.00916e-17	1.000000	1.00923e-17	1.000000
rad58	4.14865e-18	1.000000	4.14895e-18	1.000000
rad31	8.80669e-19	1.000000	8.80734e-19	1.000000
rad65	8.46997e-19	1.000000	8.47059e-19	1.000000
rad23	3.42677e-19	1.000000	3.42701e-19	1.000000
rad42	2.07721e-19	1.000000	2.07735e-19	1.000000
rad41	6.28084e-20	1.000000	6.28130e-20	1.000000
rad20	4.32333e-20	1.000000	4.32364e-20	1.000000
rad21	3.41260e-20	1.000000	3.41285e-20	1.000000
rad45	2.51822e-21	1.000000	2.51840e-21	1.000000
rad18	1.72465e-22	1.000000	1.72478e-22	1.000000
rad22	1.71087e-22	1.000000	1.71100e-22	1.000000

rad36	1.62897e-22	1.00000	1.62909e-22	1.00000
rad24	1.08127e-26	1.00000	1.08134e-26	1.00000
rad47	7.35837e-29	1.00000	7.35891e-29	1.00000

0.100000000E-03 Pa, 290.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.55893e-16	(1.00)	3.55861e-16	(1.00)
Formation of rad11	2.62555e-16	(0.738)	2.62530e-16	(0.738)
Formation of rad6	7.62093e-17	(0.214)	7.62021e-17	(0.214)
H-abstraction	1.71289e-17	(0.0481)	1.71289e-17	(0.0481)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.904732	0.904732	0.904815	0.904815
Benzene+2-propynyl	0.0481294	0.952861	0.0481337	0.952948
C2H2+PhCH2	0.0237286	0.976590	0.0237307	0.976679
PhCCH+CH3	0.0124079	0.988998	0.0124090	0.989088
PhCHCCH2+H	0.00608268	0.995081	0.00608323	0.995171
PhCCCH3+H	0.00395548	0.999036	0.00395583	0.999127
Ph+MeAc	0.000690470	0.999727	0.000690532	0.999818
Phenyl+Allene	9.06004e-05	0.999817	0.00000	0.999818
rad9	5.97675e-05	0.999877	5.97728e-05	0.999877
rad8	5.34689e-05	0.999930	5.34737e-05	0.999931
PAH7+H	4.47001e-05	0.999975	4.47042e-05	0.999976
rad39	1.04138e-05	0.999986	1.04147e-05	0.999986
rad12	3.57590e-06	0.999989	3.57623e-06	0.999990
rad6	3.52684e-06	0.999993	3.52716e-06	0.999993
PhCH2CCH+H	3.17946e-06	0.999996	3.17975e-06	0.999996
rad30	2.04412e-06	0.999998	2.04430e-06	0.999998
PAH9+H	5.81638e-07	0.999998	5.81690e-07	0.999999
rad15	5.19895e-07	0.999999	5.19942e-07	0.999999
rad35	2.43185e-07	0.999999	2.43208e-07	1.000000
rad38	1.79274e-07	0.999999	1.79291e-07	1.000000
rad37	1.70755e-07	1.000000	1.70771e-07	1.000000
rad5	7.69105e-09	1.000000	7.69175e-09	1.000000
rad28	5.41787e-09	1.000000	5.41836e-09	1.000000
rad46	4.28749e-09	1.000000	4.28787e-09	1.000000
rad2	1.56965e-09	1.000000	1.56979e-09	1.000000
rad60syn	8.49217e-10	1.000000	8.49294e-10	1.000000
rad26	5.20754e-10	1.000000	5.20801e-10	1.000000
rad60anti	3.33954e-10	1.000000	3.33984e-10	1.000000
rad7	2.67338e-10	1.000000	2.67361e-10	1.000000
rad1	1.18482e-10	1.000000	1.18493e-10	1.000000
rad10	8.30421e-11	1.000000	8.30497e-11	1.000000
rad11	6.61771e-11	1.000000	6.61831e-11	1.000000
rad19syn	3.53542e-11	1.000000	3.53574e-11	1.000000
PAH3+H	3.10913e-11	1.000000	3.10942e-11	1.000000
rad3	9.99959e-12	1.000000	1.00005e-11	1.000000
rad59	8.27356e-12	1.000000	8.27432e-12	1.000000
rad4	5.31415e-12	1.000000	5.31463e-12	1.000000
rad13	1.54069e-12	1.000000	1.54083e-12	1.000000
rad54	1.40664e-12	1.000000	1.40676e-12	1.000000
rad50	1.26243e-12	1.000000	1.26255e-12	1.000000
PAH10+CH3	8.93205e-13	1.000000	8.93286e-13	1.000000
rad43	2.00656e-13	1.000000	2.00674e-13	1.000000
rad62	7.41656e-14	1.000000	7.41723e-14	1.000000
PhcycC3H3_A+H	1.14766e-14	1.000000	1.14776e-14	1.000000
rad70	5.86558e-15	1.000000	5.86610e-15	1.000000
rad14	3.08058e-15	1.000000	3.08085e-15	1.000000
rad33	3.03328e-15	1.000000	3.03356e-15	1.000000
rad55	2.84937e-15	1.000000	2.84963e-15	1.000000
rad25	1.89072e-15	1.000000	1.89089e-15	1.000000
rad52	1.67115e-15	1.000000	1.67131e-15	1.000000
rad27	1.31205e-15	1.000000	1.31218e-15	1.000000
PAH1+H	4.00225e-16	1.000000	4.00262e-16	1.000000
rad51	1.44089e-16	1.000000	1.44102e-16	1.000000
rad34	2.48036e-17	1.000000	2.48058e-17	1.000000
rad58	9.60437e-18	1.000000	9.60519e-18	1.000000
rad65	1.88874e-18	1.000000	1.88891e-18	1.000000
rad31	1.18646e-18	1.000000	1.18657e-18	1.000000
rad42	5.29925e-19	1.000000	5.29973e-19	1.000000
rad23	5.29384e-19	1.000000	5.29432e-19	1.000000
rad41	1.61242e-19	1.000000	1.61257e-19	1.000000
rad20	3.69884e-20	1.000000	3.69917e-20	1.000000
rad21	2.93664e-20	1.000000	2.93691e-20	1.000000
rad45	3.97529e-21	1.000000	3.97565e-21	1.000000
rad36	2.58930e-22	1.000000	2.58953e-22	1.000000
rad22	1.62260e-22	1.000000	1.62274e-22	1.000000

rad18	1.45652e-22	1.000000	1.45665e-22	1.00000
rad24	1.12415e-26	1.000000	1.12425e-26	1.00000
rad47	1.55319e-28	1.000000	1.55332e-28	1.00000

0.100000000E-03 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34395e-16 (1.00)	6.34337e-16 (1.00)
Formation of rad11	4.51153e-16 (0.711)	4.51110e-16 (0.711)
Formation of rad6	1.51589e-16 (0.239)	1.51574e-16 (0.239)
H-abstraction	3.16530e-17 (0.0499)	3.16530e-17 (0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891278	0.891278	0.891360	0.891360
Benzene+2-propynyl	0.0498949	0.941173	0.0498994	0.941259
C2H2+PhCH2	0.0318806	0.973054	0.0318835	0.973143
PhCCH+CH3	0.0148875	0.987941	0.0148888	0.988031
PhCHCCH2+H	0.00656922	0.994511	0.00656981	0.994601
PhCCCH3+H	0.00446314	0.998974	0.00446354	0.999065
Ph+MeAc	0.000839387	0.999813	0.000839463	0.999904
Phenyl+Allene	9.13159e-05	0.999904	0.00000	0.999904
PAH7+H	6.59856e-05	0.999970	6.59915e-05	0.999970
rad39	1.31351e-05	0.999984	1.31363e-05	0.999983
rad6	6.91984e-06	0.999990	6.92048e-06	0.999990
PhCH2CCH+H	5.22082e-06	0.999996	5.22130e-06	0.999995
rad30	2.21009e-06	0.999998	2.21029e-06	0.999998
PAH9+H	7.99359e-07	0.999999	7.99432e-07	0.999998
rad19anti	7.03913e-07	0.999999	7.03977e-07	0.999999
rad35	2.86865e-07	1.000000	2.86891e-07	0.999999
rad37	2.27449e-07	1.000000	2.27470e-07	1.000000
rad38	2.12794e-07	1.000000	2.12813e-07	1.000000
rad28	9.86561e-09	1.000000	9.86651e-09	1.000000
rad46	5.68384e-09	1.000000	5.68436e-09	1.000000
rad2	3.57070e-09	1.000000	3.57103e-09	1.000000
rad26	1.14258e-09	1.000000	1.14268e-09	1.000000
rad60syn	1.08160e-09	1.000000	1.08170e-09	1.000000
rad7	6.13898e-10	1.000000	6.13955e-10	1.000000
rad60anti	4.39076e-10	1.000000	4.39116e-10	1.000000
rad1	2.69067e-10	1.000000	2.69091e-10	1.000000
rad10	2.19047e-10	1.000000	2.19067e-10	1.000000
rad11	1.47485e-10	1.000000	1.47498e-10	1.000000
rad19syn	6.92409e-11	1.000000	6.92472e-11	1.000000
PAH3+H	6.10421e-11	1.000000	6.10477e-11	1.000000
rad3	2.51157e-11	1.000000	2.51181e-11	1.000000
rad59	1.31856e-11	1.000000	1.31868e-11	1.000000
rad4	1.24902e-11	1.000000	1.24913e-11	1.000000
rad13	3.54041e-12	1.000000	3.54073e-12	1.000000
rad54	3.21917e-12	1.000000	3.21945e-12	1.000000
rad50	2.22692e-12	1.000000	2.22712e-12	1.000000
PAH10+CH3	2.02607e-12	1.000000	2.02626e-12	1.000000
rad67	7.75564e-13	1.000000	7.75636e-13	1.000000
rad43	4.01368e-13	1.000000	4.01405e-13	1.000000
rad62	1.66596e-13	1.000000	1.66612e-13	1.000000
PhcycC3H3_A+H	4.89157e-14	1.000000	4.89201e-14	1.000000
rad70	1.94649e-14	1.000000	1.94667e-14	1.000000
rad25	1.11143e-14	1.000000	1.11154e-14	1.000000
rad14	1.10337e-14	1.000000	1.10347e-14	1.000000
rad33	8.55552e-15	1.000000	8.55630e-15	1.000000
rad55	8.48798e-15	1.000000	8.48876e-15	1.000000
rad27	5.11584e-15	1.000000	5.11631e-15	1.000000
rad52	3.84264e-15	1.000000	3.84300e-15	1.000000
rad23	3.39457e-15	1.000000	3.39488e-15	1.000000
PAH1+H	2.34452e-15	1.000000	2.34472e-15	1.000000
rad51	4.07432e-16	1.000000	4.07469e-16	1.000000
rad34	1.57788e-16	1.000000	1.57802e-16	1.000000
rad45	5.22912e-17	1.000000	5.22960e-17	1.000000
rad31	3.04126e-17	1.000000	3.04153e-17	1.000000
rad58	2.99521e-17	1.000000	2.99548e-17	1.000000
rad65	6.35821e-18	1.000000	6.35879e-18	1.000000
rad42	4.93415e-18	1.000000	4.93460e-18	1.000000
rad21	3.81736e-18	1.000000	3.81771e-18	1.000000
rad20	3.40079e-18	1.000000	3.40109e-18	1.000000
rad36	1.78225e-18	1.000000	1.78242e-18	1.000000
rad41	1.53091e-18	1.000000	1.53105e-18	1.000000
rad22	6.65737e-19	1.000000	6.65798e-19	1.000000
rad9	6.28912e-19	1.000000	6.28969e-19	1.000000
rad53	1.09685e-19	1.000000	1.09695e-19	1.000000
rad18	6.84110e-20	1.000000	6.84172e-20	1.000000

rad64	2.63858e-20	1.00000	2.63881e-20	1.000000
rad5	2.47774e-21	1.00000	2.47797e-21	1.000000
rad15	3.74284e-22	1.00000	3.74319e-22	1.000000
rad56	3.10999e-22	1.00000	3.11027e-22	1.000000
rad24	6.37530e-23	1.00000	6.37588e-23	1.000000
rad61	3.56445e-23	1.00000	3.56479e-23	1.000000
rad68syn	3.28827e-23	1.00000	3.28857e-23	1.000000
rad68anti	2.37016e-23	1.00000	2.37038e-23	1.000000
rad40syn	5.33132e-26	1.00000	5.33180e-26	1.000000
rad12	2.38423e-26	1.00000	2.38445e-26	1.000000
rad40anti	1.32366e-26	1.00000	1.32378e-26	1.000000
PAH8+H	1.18612e-26	1.00000	1.18623e-26	1.000000
rad73	1.00636e-26	1.00000	1.00646e-26	1.000000
rad47	2.86323e-28	1.00000	2.86349e-28	1.000000
rad71	9.35690e-29	1.00000	9.35776e-29	1.000000
rad72	1.61598e-37	1.00000	1.61612e-37	1.000000
rad8	1.56830e-39	1.00000	1.56845e-39	1.000000

0.100000000E-03 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.11288e-15 (1.00)	5.10968e-15 (1.00)
Formation of rad11	3.08094e-15 (0.603)	3.07881e-15 (0.603)
Formation of rad6	1.54092e-15 (0.301)	1.53985e-15 (0.301)
H-abstraction	4.91025e-16 (0.0960)	4.91025e-16 (0.0961)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.804509	0.804509	0.805013	0.805013
Benzene+2-propynyl	0.0960368	0.900546	0.0960969	0.901110
C2H2+PhCH2	0.0525303	0.953076	0.0525632	0.953674
PhCCH+CH3	0.0262461	0.979322	0.0262625	0.979936
PhCHCCH2+H	0.0106675	0.989990	0.0106742	0.990610
PhCCH3+H	0.00675871	0.996749	0.00676293	0.997373
Ph+MeAc	0.00228459	0.999033	0.00228603	0.999659
Phenyl+Allene	0.000625696	0.999659	0.000000	0.999659
PAH7+H	0.000215625	0.999874	0.000215761	0.999875
PhCH2CCH+H	6.37888e-05	0.999938	6.38288e-05	0.999939
rad39	4.88299e-05	0.999987	4.88605e-05	0.999988
rad30	4.71273e-06	0.999992	4.71568e-06	0.999992
rad19anti	2.55241e-06	0.999994	2.55401e-06	0.999995
PAH9+H	2.27132e-06	0.999997	2.27274e-06	0.999997
rad37	9.72077e-07	0.999998	9.72681e-07	0.999998
rad6	8.06752e-07	0.999998	8.07258e-07	0.999999
rad35	7.27459e-07	0.999999	7.27915e-07	1.000000
rad38	6.64137e-07	1.000000	6.64553e-07	1.000000
rad46	2.95893e-08	1.000000	2.96079e-08	1.000000
rad60syn	6.77066e-09	1.000000	6.77489e-09	1.000000
rad19syn	4.62787e-09	1.000000	4.63077e-09	1.000000
rad60anti	3.07453e-09	1.000000	3.07646e-09	1.000000
rad2	1.71655e-09	1.000000	1.71763e-09	1.000000
PAH3+H	1.45797e-09	1.000000	1.45888e-09	1.000000
rad28	1.21356e-09	1.000000	1.21432e-09	1.000000
rad54	4.18668e-10	1.000000	4.18930e-10	1.000000
rad59	2.84704e-10	1.000000	2.84882e-10	1.000000
PAH10+CH3	1.98075e-10	1.000000	1.98199e-10	1.000000
rad1	1.59751e-10	1.000000	1.59851e-10	1.000000
rad26	1.59686e-10	1.000000	1.59786e-10	1.000000
rad10	1.06323e-10	1.000000	1.06390e-10	1.000000
rad50	7.81193e-11	1.000000	7.81682e-11	1.000000
rad7	7.55141e-11	1.000000	7.55614e-11	1.000000
rad43	3.26733e-11	1.000000	3.26937e-11	1.000000
rad67	2.48948e-11	1.000000	2.49104e-11	1.000000
PhcycC3H3_A+H	2.37988e-11	1.000000	2.38137e-11	1.000000
rad62	2.26679e-11	1.000000	2.26821e-11	1.000000
rad11	1.85970e-11	1.000000	1.86086e-11	1.000000
rad3	1.85895e-11	1.000000	1.86011e-11	1.000000
rad4	9.79074e-12	1.000000	9.79686e-12	1.000000
rad70	7.63980e-12	1.000000	7.64459e-12	1.000000
rad55	3.50823e-12	1.000000	3.51043e-12	1.000000
PAH1+H	2.19400e-12	1.000000	2.19537e-12	1.000000
rad23	1.98097e-12	1.000000	1.98221e-12	1.000000
rad13	4.60851e-13	1.000000	4.61140e-13	1.000000
rad52	4.56317e-13	1.000000	4.56602e-13	1.000000
rad34	1.75089e-13	1.000000	1.75198e-13	1.000000
rad51	1.36999e-13	1.000000	1.37084e-13	1.000000
rad45	1.29067e-13	1.000000	1.29148e-13	1.000000
rad58	1.74185e-14	1.000000	1.74293e-14	1.000000
rad42	7.28198e-15	1.000000	7.28653e-15	1.000000

rad36	4.97048e-15	1.000000	4.97359e-15	1.00000
rad65	3.20501e-15	1.000000	3.20701e-15	1.00000
rad25	2.91221e-15	1.000000	2.91404e-15	1.00000
rad14	2.61577e-15	1.000000	2.61741e-15	1.00000
rad41	2.20571e-15	1.000000	2.20709e-15	1.00000
rad27	1.27140e-15	1.000000	1.27220e-15	1.00000
rad33	1.26628e-15	1.000000	1.26707e-15	1.00000
rad53	9.04225e-16	1.000000	9.04789e-16	1.00000
rad31	4.52496e-16	1.000000	4.52780e-16	1.00000
rad64	3.15112e-16	1.000000	3.15309e-16	1.00000
rad22	1.22316e-16	1.000000	1.22392e-16	1.00000
rad56	1.60194e-17	1.000000	1.60295e-17	1.00000
rad9	4.65221e-18	1.000000	4.65512e-18	1.00000
rad21	4.26386e-18	1.000000	4.26652e-18	1.00000
rad20	3.00401e-18	1.000000	3.00588e-18	1.00000
rad68syn	1.85189e-18	1.000000	1.85305e-18	1.00000
rad68anti	1.33289e-18	1.000000	1.33374e-18	1.00000
rad61	9.28198e-19	1.000000	9.28779e-19	1.00000
rad18	2.90379e-20	1.000000	2.90561e-20	1.00000
rad40syn	1.44557e-20	1.000000	1.44647e-20	1.00000
PAH8+H	8.91044e-21	1.000000	8.91602e-21	1.00000
rad40anti	3.67580e-21	1.000000	3.67811e-21	1.00000
rad15	2.93657e-21	1.000000	2.93841e-21	1.00000
rad5	2.73789e-21	1.000000	2.73959e-21	1.00000
rad73	2.39426e-21	1.000000	2.39575e-21	1.00000
rad24	1.18274e-21	1.000000	1.18348e-21	1.00000
rad71	9.62034e-23	1.000000	9.62639e-23	1.00000
rad12	1.84970e-24	1.000000	1.85086e-24	1.00000
rad47	7.50668e-26	1.000000	7.51138e-26	1.00000
rad72	1.64420e-27	1.000000	1.64523e-27	1.00000
rad8	4.43269e-37	1.000000	4.43547e-37	1.00000

0.100000000E-03 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.11551e-14 (1.00)	2.10968e-14 (1.00)
Formation of rad11	1.10850e-14 (0.524)	1.10494e-14 (0.524)
Formation of rad6	7.08033e-15 (0.335)	7.05760e-15 (0.335)
H-abstraction	2.98976e-15 (0.141)	2.98976e-15 (0.142)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.706771	0.706771	0.708724	0.708724
Benzene+2-propynyl	0.141326	0.848096	0.141717	0.850441
C2H2+PhCH2	0.0810996	0.929196	0.0813238	0.931764
PhCCH+CH3	0.0389471	0.968143	0.0390548	0.970819
PhCHCCH2+H	0.0153911	0.983534	0.0154337	0.986253
PhCCCH3+H	0.00823866	0.991773	0.00826144	0.994514
Ph+MeAc	0.00432815	0.996101	0.00434012	0.998855
Phenyl+Allene	0.00275750	0.998858	0.000000	0.998855
PAH7+H	0.000574770	0.999433	0.000576359	0.999431
PhCH2CCH+H	0.000399540	0.999833	0.000400646	0.999832
rad39	0.000137919	0.999971	0.000138300	0.999970
rad30	9.14583e-06	0.999980	9.17110e-06	0.999979
rad19anti	7.87848e-06	0.999988	7.90027e-06	0.999987
PAH9+H	6.12713e-06	0.999994	6.14407e-06	0.999993
rad37	2.41819e-06	0.999996	2.42487e-06	0.999995
rad38	1.93433e-06	0.999998	1.93968e-06	0.999997
rad35	1.76556e-06	1.000000	1.77044e-06	0.999999
rad46	1.27869e-07	1.000000	1.28222e-07	0.999999
rad6	1.15781e-07	1.000000	1.16101e-07	0.999999
rad19syn	7.63982e-08	1.000000	7.66095e-08	0.999999
rad60syn	2.91340e-08	1.000000	2.92145e-08	1.000000
PAH3+H	1.45907e-08	1.000000	1.46311e-08	1.000000
rad60anti	1.41792e-08	1.000000	1.42184e-08	1.000000
rad54	1.02843e-08	1.000000	1.03128e-08	1.000000
PAH10+CH3	3.35595e-09	1.000000	3.36523e-09	1.000000
rad2	3.06906e-09	1.000000	3.07754e-09	1.000000
rad59	2.61932e-09	1.000000	2.62656e-09	1.000000
PhcycC3H3_A+H	1.25838e-09	1.000000	1.26186e-09	1.000000
rad50	1.15865e-09	1.000000	1.16186e-09	1.000000
rad62	4.84009e-10	1.000000	4.85347e-10	1.000000
rad43	4.60420e-10	1.000000	4.61694e-10	1.000000
rad67	3.97898e-10	1.000000	3.98997e-10	1.000000
rad1	3.67780e-10	1.000000	3.68797e-10	1.000000
rad70	3.42517e-10	1.000000	3.43464e-10	1.000000
rad28	1.65132e-10	1.000000	1.65588e-10	1.000000
PAH1+H	1.64298e-10	1.000000	1.64753e-10	1.000000
rad55	1.59822e-10	1.000000	1.60263e-10	1.000000

rad10	1.55583e-10	1.00000	1.56014e-10	1.000000
rad23	1.26271e-10	1.00000	1.26621e-10	1.000000
rad3	5.85971e-11	1.00000	5.87592e-11	1.000000
rad4	3.32346e-11	1.00000	3.33265e-11	1.000000
rad26	3.21281e-11	1.00000	3.22169e-11	1.000000
rad45	1.85897e-11	1.00000	1.86411e-11	1.000000
rad34	1.41616e-11	1.00000	1.42007e-11	1.000000
rad52	1.34824e-11	1.00000	1.35197e-11	1.000000
rad7	1.16641e-11	1.00000	1.16963e-11	1.000000
rad51	7.24877e-12	1.00000	7.26881e-12	1.000000
rad11	2.99101e-12	1.00000	2.99928e-12	1.000000
rad58	1.01105e-12	1.00000	1.01385e-12	1.000000
rad36	9.95727e-13	1.00000	9.98484e-13	1.000000
rad42	6.16330e-13	1.00000	6.18034e-13	1.000000
rad53	2.35884e-13	1.00000	2.36536e-13	1.000000
rad65	2.01753e-13	1.00000	2.02311e-13	1.000000
rad41	1.64835e-13	1.00000	1.65291e-13	1.000000
rad64	9.67571e-14	1.00000	9.70247e-14	1.000000
rad13	7.89347e-14	1.00000	7.91530e-14	1.000000
rad56	1.22103e-14	1.00000	1.22441e-14	1.000000
rad22	4.25971e-15	1.00000	4.27149e-15	1.000000
rad31	2.28644e-15	1.00000	2.29277e-15	1.000000
rad68syn	1.45356e-15	1.00000	1.45758e-15	1.000000
rad25	1.14800e-15	1.00000	1.15118e-15	1.000000
rad68anti	1.02676e-15	1.00000	1.02960e-15	1.000000
rad14	9.03600e-16	1.00000	9.06098e-16	1.000000
rad27	6.04432e-16	1.00000	6.06103e-16	1.000000
rad61	4.14294e-16	1.00000	4.15439e-16	1.000000
rad33	3.62021e-16	1.00000	3.63022e-16	1.000000
rad9	1.08334e-16	1.00000	1.08633e-16	1.000000
PAH8+H	3.34059e-17	1.00000	3.34983e-17	1.000000
rad40syn	2.92189e-17	1.00000	2.92997e-17	1.000000
rad21	1.86398e-17	1.00000	1.86914e-17	1.000000
rad20	9.85217e-18	1.00000	9.87944e-18	1.000000
rad40anti	8.33336e-18	1.00000	8.35639e-18	1.000000
rad73	6.63729e-18	1.00000	6.65565e-18	1.000000
rad71	1.63848e-18	1.00000	1.64301e-18	1.000000
rad15	7.36366e-20	1.00000	7.38402e-20	1.000000
rad24	7.32896e-20	1.00000	7.34922e-20	1.000000
rad18	2.49547e-20	1.00000	2.50237e-20	1.000000
rad72	1.31429e-20	1.00000	1.31793e-20	1.000000
rad5	1.98587e-21	1.00000	1.99136e-21	1.000000
rad12	6.99679e-22	1.00000	7.01613e-22	1.000000
rad47	4.86082e-24	1.00000	4.87426e-24	1.000000
rad8	8.31930e-34	1.00000	8.34230e-34	1.000000

0.100000000E-03 Pa, 600.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.08120e-14 (1.00)	6.02869e-14 (1.00)
Formation of rad11	2.83304e-14 (0.466)	2.80313e-14 (0.465)
Formation of rad6	2.13840e-14 (0.352)	2.11582e-14 (0.351)
H-abstraction	1.10975e-14 (0.182)	1.10975e-14 (0.184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.606936	0.606936	0.612222	0.612222
Benzene+2-propynyl	0.182488	0.789425	0.184077	0.796299
C2H2+PhCH2	0.112835	0.902259	0.113817	0.910116
PhCCH+CH3	0.0502919	0.952551	0.0507299	0.960846
PhCHCCH2+H	0.0208954	0.973446	0.0210773	0.981924
Phenyl+Allene	0.00863333	0.982080	0.000000	0.981924
PhCCCH3+H	0.00840917	0.990489	0.00848241	0.990406
Ph+MeAc	0.00630888	0.996798	0.00636381	0.996770
PhCH2CCH+H	0.00158536	0.998383	0.00159916	0.998369
PAH7+H	0.00124704	0.999630	0.00125790	0.999627
rad39	0.000304552	0.999935	0.000307204	0.999934
rad19anti	2.07282e-05	0.999955	2.09087e-05	0.999955
rad30	1.54420e-05	0.999971	1.55765e-05	0.999971
PAH9+H	1.45718e-05	0.999985	1.46987e-05	0.999985
rad38	4.88297e-06	0.999990	4.92550e-06	0.999990
rad37	4.23976e-06	0.999995	4.27668e-06	0.999994
rad35	3.83134e-06	0.999998	3.86471e-06	0.999998
rad19syn	5.75842e-07	0.999999	5.80857e-07	0.999999
rad46	4.35560e-07	0.999999	4.39353e-07	0.999999
rad54	1.01017e-07	1.000000	1.01897e-07	0.999999
rad60syn	8.96246e-08	1.000000	9.04050e-08	1.000000
PAH3+H	8.11820e-08	1.000000	8.18892e-08	1.000000
rad60anti	4.57653e-08	1.000000	4.61638e-08	1.000000

rad6	2.42161e-08	1.000000	2.44270e-08	1.000000
PAH10+CH3	2.25835e-08	1.000000	2.27801e-08	1.000000
PhcycC3H3_A+H	2.05528e-08	1.000000	2.07318e-08	1.000000
rad59	1.35486e-08	1.000000	1.36666e-08	1.000000
rad50	9.40359e-09	1.000000	9.48551e-09	1.000000
rad70	4.88193e-09	1.000000	4.92445e-09	1.000000
rad62	3.91161e-09	1.000000	3.94568e-09	1.000000
rad2	3.73207e-09	1.000000	3.76458e-09	1.000000
rad67	3.65819e-09	1.000000	3.69005e-09	1.000000
PAH1+H	3.25972e-09	1.000000	3.28811e-09	1.000000
rad43	2.57507e-09	1.000000	2.59750e-09	1.000000
rad55	2.29328e-09	1.000000	2.31325e-09	1.000000
rad23	6.80652e-10	1.000000	6.86579e-10	1.000000
rad1	5.80795e-10	1.000000	5.85853e-10	1.000000
rad34	2.96007e-10	1.000000	2.98585e-10	1.000000
rad52	1.71040e-10	1.000000	1.72529e-10	1.000000
rad51	1.34246e-10	1.000000	1.35415e-10	1.000000
rad10	1.24293e-10	1.000000	1.25375e-10	1.000000
rad45	1.10532e-10	1.000000	1.11495e-10	1.000000
rad3	8.64854e-11	1.000000	8.72384e-11	1.000000
rad4	5.51975e-11	1.000000	5.56782e-11	1.000000
rad28	2.62546e-11	1.000000	2.64833e-11	1.000000
rad58	1.71339e-11	1.000000	1.72831e-11	1.000000
rad42	1.22226e-11	1.000000	1.23291e-11	1.000000
rad53	1.06169e-11	1.000000	1.07093e-11	1.000000
rad36	1.01771e-11	1.000000	1.02657e-11	1.000000
rad26	9.47161e-12	1.000000	9.55404e-12	1.000000
rad64	4.60115e-12	1.000000	4.64122e-12	1.000000
rad65	4.04882e-12	1.000000	4.08408e-12	1.000000
rad41	2.76419e-12	1.000000	2.78826e-12	1.000000
rad7	2.70220e-12	1.000000	2.72573e-12	1.000000
rad56	1.10536e-12	1.000000	1.11498e-12	1.000000
rad11	7.41956e-13	1.000000	7.48417e-13	1.000000
rad68syn	1.32112e-13	1.000000	1.33262e-13	1.000000
rad68anti	9.18139e-14	1.000000	9.26137e-14	1.000000
rad61	2.46432e-14	1.000000	2.48578e-14	1.000000
rad13	2.26334e-14	1.000000	2.28305e-14	1.000000
rad22	1.95910e-14	1.000000	1.97616e-14	1.000000
PAH8+H	8.71255e-15	1.000000	8.78846e-15	1.000000
rad40syn	4.98896e-15	1.000000	5.03241e-15	1.000000
rad9	4.64881e-15	1.000000	4.68929e-15	1.000000
rad73	4.15558e-15	1.000000	4.19176e-15	1.000000
rad71	4.14073e-15	1.000000	4.17679e-15	1.000000
rad31	3.07581e-15	1.000000	3.10259e-15	1.000000
rad40anti	1.60830e-15	1.000000	1.62230e-15	1.000000
rad25	7.55958e-16	1.000000	7.62542e-16	1.000000
rad33	6.17314e-16	1.000000	6.22689e-16	1.000000
rad14	4.78603e-16	1.000000	4.82771e-16	1.000000
rad27	4.21441e-16	1.000000	4.25111e-16	1.000000
rad21	2.20891e-16	1.000000	2.22815e-16	1.000000
rad72	1.12871e-16	1.000000	1.13854e-16	1.000000
rad20	9.24769e-17	1.000000	9.32820e-17	1.000000
rad24	7.33358e-18	1.000000	7.39744e-18	1.000000
rad15	3.07698e-18	1.000000	3.10378e-18	1.000000
rad12	3.31270e-19	1.000000	3.34155e-19	1.000000
rad18	5.06973e-20	1.000000	5.11388e-20	1.000000
rad5	1.32832e-21	1.000000	1.33988e-21	1.000000
rad47	1.06856e-22	1.000000	1.07787e-22	1.000000
rad8	7.33203e-30	1.000000	7.39588e-30	1.000000

0.100000000E-03 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.39564e-13 (1.00)	1.36669e-13 (1.00)
Formation of rad11	5.88273e-14 (0.422)	5.72650e-14 (0.419)
Formation of rad6	5.01684e-14 (0.359)	4.88360e-14 (0.357)
H-abstraction	3.05678e-14 (0.219)	3.05678e-14 (0.224)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.510454	0.510454	0.521266	0.521266
Benzene+2-propynyl	0.219024	0.729479	0.223663	0.744929
C2H2+PhCH2	0.140690	0.870168	0.143669	0.888598
PhCCH+CH3	0.0586090	0.928777	0.0598504	0.948448
PhCHCCH2+H	0.0277621	0.956539	0.0283502	0.976799
Phenyl+Allene	0.0207414	0.977281	0.000000	0.976799
Ph+MeAc	0.00771338	0.984994	0.00787671	0.984675
PhCCH3+H	5.00756058	0.992555	0.00772071	0.992396
PhCH2CCH+H	0.00451179	0.997067	0.00460736	0.997003

PAH7+H	0.00225727	0.999324	0.00230508	0.999308
rad39	0.000548287	0.999872	0.000559900	0.999868
rad19anti	4.66036e-05	0.999919	4.75908e-05	0.999916
PAH9+H	2.99985e-05	0.999949	3.06339e-05	0.999947
rad30	2.26761e-05	0.999971	2.31564e-05	0.999970
rad38	1.05315e-05	0.999982	1.07545e-05	0.999980
rad35	7.29844e-06	0.999989	7.45303e-06	0.999988
rad37	5.93520e-06	0.999995	6.06092e-06	0.999994
rad19syn	2.61379e-06	0.999998	2.66916e-06	0.999997
rad46	1.18433e-06	0.999999	1.20941e-06	0.999998
rad54	5.53865e-07	0.999999	5.65596e-07	0.999998
PAH3+H	2.96686e-07	1.000000	3.02969e-07	0.999999
rad60syn	2.09903e-07	1.000000	2.14349e-07	0.999999
PhcycC3H3_A+H	1.62838e-07	1.000000	1.66287e-07	0.999999
rad60anti	1.11059e-07	1.000000	1.13411e-07	0.999999
PAH10+CH3	8.88430e-08	1.000000	9.07250e-08	0.999999
rad50	4.89498e-08	1.000000	4.99865e-08	0.999999
rad59	4.64276e-08	1.000000	4.74110e-08	0.999999
rad70	3.43279e-08	1.000000	3.50550e-08	0.999999
PAH1+H	2.87929e-08	1.000000	2.94027e-08	0.999999
rad67	2.16414e-08	1.000000	2.20998e-08	0.999999
rad62	1.75396e-08	1.000000	1.79112e-08	0.999999
rad55	1.62462e-08	1.000000	1.65903e-08	1.000000
rad43	8.26647e-09	1.000000	8.44157e-09	1.000000
rad6	5.86354e-09	1.000000	5.98774e-09	1.000000
rad34	2.73085e-09	1.000000	2.78869e-09	1.000000
rad2	1.91612e-09	1.000000	1.95670e-09	1.000000
rad51	1.25279e-09	1.000000	1.27933e-09	1.000000
rad52	1.21940e-09	1.000000	1.24523e-09	1.000000
rad23	7.88629e-10	1.000000	8.05333e-10	1.000000
rad1	3.63372e-10	1.000000	3.71069e-10	1.000000
rad53	1.69563e-10	1.000000	1.73155e-10	1.000000
rad45	1.42131e-10	1.000000	1.45141e-10	1.000000
rad58	1.35855e-10	1.000000	1.38733e-10	1.000000
rad42	1.03500e-10	1.000000	1.05692e-10	1.000000
rad64	7.31442e-11	1.000000	7.46934e-11	1.000000
rad10	5.10889e-11	1.000000	5.21711e-11	1.000000
rad3	4.51331e-11	1.000000	4.60890e-11	1.000000
rad65	3.92083e-11	1.000000	4.00388e-11	1.000000
rad4	3.13553e-11	1.000000	3.20195e-11	1.000000
rad56	2.88485e-11	1.000000	2.94596e-11	1.000000
rad41	1.94875e-11	1.000000	1.99002e-11	1.000000
rad36	1.43960e-11	1.000000	1.47010e-11	1.000000
rad28	5.04236e-12	1.000000	5.14916e-12	1.000000
rad68syn	3.41627e-12	1.000000	3.48863e-12	1.000000
rad26	2.68934e-12	1.000000	2.74631e-12	1.000000
rad68anti	2.34499e-12	1.000000	2.39466e-12	1.000000
rad7	7.58470e-13	1.000000	7.74535e-13	1.000000
PAH8+H	4.78242e-13	1.000000	4.88372e-13	1.000000
rad61	4.70942e-13	1.000000	4.80916e-13	1.000000
rad11	2.42664e-13	1.000000	2.47804e-13	1.000000
rad40syn	2.02313e-13	1.000000	2.06599e-13	1.000000
rad9	1.78947e-13	1.000000	1.82737e-13	1.000000
rad73	1.13612e-13	1.000000	1.16018e-13	1.000000
rad71	9.91988e-14	1.000000	1.01300e-13	1.000000
rad40anti	7.24115e-14	1.000000	7.39452e-14	1.000000
rad22	2.31872e-14	1.000000	2.36783e-14	1.000000
rad13	1.38610e-14	1.000000	1.41546e-14	1.000000
rad21	4.00826e-15	1.000000	4.09316e-15	1.000000
rad33	3.86561e-15	1.000000	3.94749e-15	1.000000
rad72	2.80961e-15	1.000000	2.86911e-15	1.000000
rad31	1.78375e-15	1.000000	1.82153e-15	1.000000
rad20	1.49298e-15	1.000000	1.52460e-15	1.000000
rad25	8.96513e-16	1.000000	9.15503e-16	1.000000
rad27	4.22772e-16	1.000000	4.31726e-16	1.000000
rad14	4.08044e-16	1.000000	4.16687e-16	1.000000
rad24	3.96850e-16	1.000000	4.05255e-16	1.000000
rad15	8.20587e-17	1.000000	8.37970e-17	1.000000
rad12	4.79332e-17	1.000000	4.89485e-17	1.000000
rad18	2.34700e-19	1.000000	2.39671e-19	1.000000
rad5	9.92362e-22	1.000000	1.01338e-21	1.000000
rad47	9.05120e-22	1.000000	9.24291e-22	1.000000
rad8	9.25581e-26	1.000000	9.45190e-26	1.000000

0.100000000E-03 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.75392e-13 (1.00)	2.64229e-13 (1.00)
Formation of rad11	1.06471e-13 (0.387)	1.00706e-13 (0.381)

Formation of rad6	9.97133e-14	(0.362)	9.43145e-14	(0.357)
H-abstraction	6.92082e-14	(0.251)	6.92082e-14	(0.262)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.420963	0.420963	0.438749	0.438749
Benzene+2-propynyl	0.251308	0.672270	0.261925	0.700674
C2H2+PhCH2	0.158756	0.831027	0.165464	0.866138
PhCCH+CH3	0.0631451	0.894172	0.0658129	0.931950
Phenyl+Allene	0.0405363	0.934708	0.00000	0.931950
PhCHCCH2+H	0.0360792	0.970787	0.0376035	0.969554
PhCH2CCH+H	0.00999819	0.980786	0.0104207	0.979975
Ph+MeAc	0.00840385	0.989189	0.00875888	0.988734
PhCCCH3+H	0.00623442	0.995424	0.00649782	0.995231
PAH7+H	0.00351019	0.998934	0.00365849	0.998890
rad39	0.000836589	0.999771	0.000871939	0.999762
rad19anti	9.01935e-05	0.999861	9.40042e-05	0.999856
PAH9+H	5.38601e-05	0.999915	5.61357e-05	0.999912
rad30	2.94555e-05	0.999944	3.07000e-05	0.999943
rad38	1.96292e-05	0.999964	2.04585e-05	0.999963
rad35	1.22732e-05	0.999976	1.27916e-05	0.999976
rad19syn	8.33347e-06	0.999984	8.68552e-06	0.999985
rad37	7.26188e-06	0.999992	7.56866e-06	0.999992
rad46	2.65267e-06	0.999994	2.76474e-06	0.999995
rad54	2.03471e-06	0.999996	2.12067e-06	0.999997
PAH3+H	7.96489e-07	0.999997	8.30142e-07	0.999998
PhcycC3H3_A+H	7.94325e-07	0.999998	8.27884e-07	0.999999
rad60syn	3.96788e-07	0.999998	4.13551e-07	0.999999
PAH10+CH3	2.53201e-07	0.999999	2.63898e-07	0.999999
rad60anti	2.15810e-07	0.999999	2.24928e-07	1.000000
rad50	1.82328e-07	0.999999	1.90031e-07	1.000000
rad70	1.50040e-07	0.999999	1.56379e-07	1.000000
PAH1+H	1.48682e-07	0.999999	1.54964e-07	1.000000
rad59	1.17661e-07	0.999999	1.22632e-07	1.000000
rad67	9.03380e-08	1.000000	9.41547e-08	1.000000
rad55	7.18814e-08	1.000000	7.49183e-08	1.000000
rad62	5.32905e-08	1.000000	5.55420e-08	1.000000
rad43	1.85218e-08	1.000000	1.93043e-08	1.000000
rad34	1.46559e-08	1.000000	1.52750e-08	1.000000
rad51	7.23041e-09	1.000000	7.53589e-09	1.000000
rad52	5.74147e-09	1.000000	5.98404e-09	1.000000
rad53	1.38657e-09	1.000000	1.44515e-09	1.000000
rad6	1.35803e-09	1.000000	1.41540e-09	1.000000
rad58	6.48425e-10	1.000000	6.75820e-10	1.000000
rad2	5.84525e-10	1.000000	6.09221e-10	1.000000
rad64	5.75079e-10	1.000000	5.99375e-10	1.000000
rad42	5.07613e-10	1.000000	5.29059e-10	1.000000
rad23	4.40523e-10	1.000000	4.59134e-10	1.000000
rad56	3.39879e-10	1.000000	3.54238e-10	1.000000
rad65	2.29776e-10	1.000000	2.39484e-10	1.000000
rad1	1.11891e-10	1.000000	1.16619e-10	1.000000
rad45	1.01088e-10	1.000000	1.05359e-10	1.000000
rad41	7.94325e-11	1.000000	8.27884e-11	1.000000
rad68syn	3.95128e-11	1.000000	4.11821e-11	1.000000
rad68anti	2.68642e-11	1.000000	2.79992e-11	1.000000
rad3	1.45180e-11	1.000000	1.51314e-11	1.000000
rad10	1.41360e-11	1.000000	1.47332e-11	1.000000
rad4	1.03098e-11	1.000000	1.07453e-11	1.000000
PAH8+H	9.76572e-12	1.000000	1.01783e-11	1.000000
rad36	9.61403e-12	1.000000	1.00202e-11	1.000000
rad61	4.46643e-12	1.000000	4.65513e-12	1.000000
rad40syn	3.28135e-12	1.000000	3.41998e-12	1.000000
rad9	2.92325e-12	1.000000	3.04676e-12	1.000000
rad40anti	1.27736e-12	1.000000	1.33132e-12	1.000000
rad28	1.25439e-12	1.000000	1.30738e-12	1.000000
rad73	1.15655e-12	1.000000	1.20542e-12	1.000000
rad26	6.53903e-13	1.000000	6.81530e-13	1.000000
rad71	5.71333e-13	1.000000	5.95471e-13	1.000000
rad7	2.24135e-13	1.000000	2.33604e-13	1.000000
rad11	1.37190e-13	1.000000	1.42986e-13	1.000000
rad13	6.06853e-14	1.000000	6.32492e-14	1.000000
rad21	5.89482e-14	1.000000	6.14388e-14	1.000000
rad33	2.86573e-14	1.000000	2.98680e-14	1.000000
rad20	2.26406e-14	1.000000	2.35971e-14	1.000000
rad22	1.41447e-14	1.000000	1.47423e-14	1.000000
rad72	8.47437e-15	1.000000	8.83239e-15	1.000000
rad24	5.58311e-15	1.000000	5.81899e-15	1.000000
rad25	1.92326e-15	1.000000	2.00452e-15	1.000000
rad12	1.15828e-15	1.000000	1.20722e-15	1.000000
rad31	8.40549e-16	1.000000	8.76058e-16	1.000000

rad15	8.29207e-16	1.000000	8.64241e-16	1.00000
rad27	7.21024e-16	1.000000	7.51486e-16	1.00000
rad14	5.79706e-16	1.000000	6.04198e-16	1.00000
rad18	2.31019e-18	1.000000	2.40779e-18	1.00000
rad47	5.03123e-21	1.000000	5.24379e-21	1.00000
rad5	9.88573e-22	1.000000	1.03035e-21	1.00000
rad8	3.33313e-22	1.000000	3.47395e-22	1.00000

0.100000000E-03 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.88072e-13 (1.00)	4.55158e-13 (1.00)
Formation of rad11	1.74945e-13 (0.358)	1.58562e-13 (0.348)
Formation of rad6	1.76509e-13 (0.362)	1.59978e-13 (0.351)
H-abstraction	1.36618e-13 (0.280)	1.36618e-13 (0.300)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.341014	0.341014	0.365674	0.365674
Benzene+2-propynyl	0.279914	0.620928	0.300155	0.665829
C2H2+PhCH2	0.164625	0.785553	0.176529	0.842358
Phenyl+Allene	0.0674364	0.852989	0.000000	0.842358
PhCCH+CH3	0.0639259	0.916915	0.0685485	0.910906
PhCHCCH2+H	0.0451268	0.962042	0.0483901	0.959296
PhCH2CCH+H	0.0182967	0.980338	0.0196198	0.978916
Ph+MeAc	0.00849313	0.988832	0.00910729	0.988024
PhCCCH3+H	0.00485364	0.993685	0.00520462	0.993228
PAH7+H	0.00482415	0.998509	0.00517299	0.998401
rad39	0.00111872	0.999628	0.00119961	0.999601
rad19anti	0.000152570	0.999781	0.000163603	0.999764
PAH9+H	8.58055e-05	0.999866	9.20100e-05	0.999856
rad30	3.45816e-05	0.999901	3.70823e-05	0.999893
rad38	3.22627e-05	0.999933	3.45957e-05	0.999928
rad19syn	2.05726e-05	0.999954	2.20602e-05	0.999950
rad35	1.85019e-05	0.999972	1.98398e-05	0.999970
rad37	8.30353e-06	0.999981	8.90399e-06	0.999979
rad54	5.61022e-06	0.999986	6.01591e-06	0.999985
rad46	5.06240e-06	0.999991	5.42848e-06	0.999990
PhcycC3H3_A+H	2.75303e-06	0.999994	2.95211e-06	0.999993
PAH3+H	1.70031e-06	0.999996	1.82327e-06	0.999995
rad60syn	6.35566e-07	0.999996	6.81526e-07	0.999996
PAH10+CH3	5.91899e-07	0.999997	6.34701e-07	0.999996
PAH1+H	5.27743e-07	0.999998	5.65906e-07	0.999997
rad50	5.26076e-07	0.999998	5.64118e-07	0.999998
rad70	4.68169e-07	0.999999	5.02024e-07	0.999998
rad60anti	3.53464e-07	0.999999	3.79023e-07	0.999998
rad67	2.86639e-07	0.999999	3.07366e-07	0.999999
rad59	2.38375e-07	0.999999	2.55613e-07	0.999999
rad55	2.28529e-07	1.000000	2.45055e-07	0.999999
rad62	1.23575e-07	1.000000	1.32511e-07	0.999999
rad34	5.38118e-08	1.000000	5.77031e-08	0.999999
rad43	3.25339e-08	1.000000	3.48865e-08	0.999999
rad51	2.94692e-08	1.000000	3.16002e-08	0.999999
rad52	1.98879e-08	1.000000	2.13261e-08	1.000000
rad53	7.16536e-09	1.000000	7.68353e-09	1.000000
rad64	2.79837e-09	1.000000	3.00073e-09	1.000000
rad56	2.33179e-09	1.000000	2.50041e-09	1.000000
rad58	2.16896e-09	1.000000	2.32581e-09	1.000000
rad42	1.71810e-09	1.000000	1.84235e-09	1.000000
rad65	9.39417e-10	1.000000	1.00735e-09	1.000000
rad6	3.23566e-10	1.000000	3.46965e-10	1.000000
rad68syn	2.64057e-10	1.000000	2.83152e-10	1.000000
rad41	2.24681e-10	1.000000	2.40928e-10	1.000000
rad23	2.02657e-10	1.000000	2.17312e-10	1.000000
rad68anti	1.78167e-10	1.000000	1.91051e-10	1.000000
rad2	1.36515e-10	1.000000	1.46387e-10	1.000000
PAH8+H	1.02542e-10	1.000000	1.09957e-10	1.000000
rad45	5.59283e-11	1.000000	5.99726e-11	1.000000
rad40syn	2.86499e-11	1.000000	3.07216e-11	1.000000
rad1	2.72782e-11	1.000000	2.92508e-11	1.000000
rad61	2.66442e-11	1.000000	2.85709e-11	1.000000
rad40anti	1.19790e-11	1.000000	1.28452e-11	1.000000
rad9	1.16426e-11	1.000000	1.24846e-11	1.000000
rad73	1.05368e-11	1.000000	1.12988e-11	1.000000
rad36	5.31952e-12	1.000000	5.70419e-12	1.000000
rad71	4.68121e-12	1.000000	5.01972e-12	1.000000
rad3	4.22768e-12	1.000000	4.53340e-12	1.000000
rad10	3.26301e-12	1.000000	3.49897e-12	1.000000
rad4	3.13245e-12	1.000000	3.35897e-12	1.000000

rad13	4.93144e-13	1.000000	5.28805e-13	1.000000
rad21	3.80413e-13	1.000000	4.07921e-13	1.000000
rad28	3.78472e-13	1.000000	4.05841e-13	1.000000
rad11	3.27065e-13	1.000000	3.50717e-13	1.000000
rad20	1.65010e-13	1.000000	1.76942e-13	1.000000
rad26	1.52621e-13	1.000000	1.63657e-13	1.000000
rad33	1.26670e-13	1.000000	1.35831e-13	1.000000
rad7	1.07708e-13	1.000000	1.15496e-13	1.000000
rad24	1.88184e-14	1.000000	2.01793e-14	1.000000
rad72	1.67745e-14	1.000000	1.79875e-14	1.000000
rad22	7.13307e-15	1.000000	7.64888e-15	1.000000
rad25	5.51945e-15	1.000000	5.91857e-15	1.000000
rad12	5.35730e-15	1.000000	5.74470e-15	1.000000
rad15	2.56403e-15	1.000000	2.74945e-15	1.000000
rad27	1.33058e-15	1.000000	1.42680e-15	1.000000
rad14	1.05355e-15	1.000000	1.12973e-15	1.000000
rad31	4.19946e-16	1.000000	4.50314e-16	1.000000
rad18	3.28873e-17	1.000000	3.52655e-17	1.000000
rad8	1.12161e-19	1.000000	1.20272e-19	1.000000
rad47	2.05660e-20	1.000000	2.20532e-20	1.000000
rad5	1.29578e-21	1.000000	1.38949e-21	1.000000

0.100000000E-03 Pa, 1000.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	7.98668e-13	(1.00)	7.19594e-13	(1.00)
Formation of rad11	2.67704e-13	(0.335)	2.29546e-13	(0.319)
Formation of rad6	2.87049e-13	(0.359)	2.46133e-13	(0.342)
H-abstraction	2.43915e-13	(0.305)	2.43915e-13	(0.339)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.305402	0.305402	0.338962	0.338962
Indene+H	0.272124	0.577526	0.302027	0.640989
C2H2+PhCH2	0.159453	0.736979	0.176975	0.817964
Phenyl+Allene	0.0990073	0.835987	0.000000	0.817964
PhCCH+CH3	0.0616205	0.897607	0.0683917	0.886356
PhCHCCH2+H	0.0537595	0.951367	0.0596670	0.946023
PhCH2CCH+H	0.0288969	0.980264	0.0320723	0.978095
Ph+MeAc	0.00817632	0.988440	0.00907480	0.987170
PAH7+H	0.00601184	0.994452	0.00667246	0.993842
PhCCCH3+H	0.00364277	0.998095	0.00404307	0.997885
rad39	0.00134896	0.999444	0.00149719	0.999382
rad19anti	0.000230025	0.999674	0.000255302	0.999638
PAH9+H	0.000123695	0.999797	0.000137288	0.999775
rad38	4.77793e-05	0.999845	5.30296e-05	0.999828
rad19syn	4.20371e-05	0.999887	4.66565e-05	0.999875
rad30	3.74826e-05	0.999925	4.16015e-05	0.999916
rad35	2.54628e-05	0.999950	2.82608e-05	0.999945
rad54	1.25292e-05	0.999963	1.39061e-05	0.999959
rad37	9.28205e-06	0.999972	1.03021e-05	0.999969
rad46	8.48861e-06	0.999980	9.42145e-06	0.999978
PhcycC3H3_A+H	7.44283e-06	0.999988	8.26073e-06	0.999987
PAH3+H	3.05843e-06	0.999991	3.39451e-06	0.999990
PAH1+H	1.42911e-06	0.999992	1.58616e-06	0.999992
rad50	1.24671e-06	0.999993	1.38370e-06	0.999993
PAH10+CH3	1.21323e-06	0.999995	1.34654e-06	0.999994
rad70	1.14131e-06	0.999996	1.26673e-06	0.999995
rad60syn	8.97094e-07	0.999997	9.95669e-07	0.999996
rad67	7.32850e-07	0.999997	8.13381e-07	0.999997
rad55	5.71763e-07	0.999998	6.34592e-07	0.999998
rad60anti	5.08253e-07	0.999999	5.64103e-07	0.999999
rad59	4.08645e-07	0.999999	4.53550e-07	0.999999
rad62	2.36337e-07	0.999999	2.62307e-07	0.999999
rad34	1.49947e-07	0.999999	1.66424e-07	0.999999
rad51	9.25871e-08	0.999999	1.02762e-07	0.999999
rad52	5.46161e-08	0.999999	6.06177e-08	1.000000
rad43	4.82844e-08	1.000000	5.35902e-08	1.000000
rad53	2.66802e-08	1.000000	2.96121e-08	1.000000
rad56	1.08965e-08	1.000000	1.20939e-08	1.000000
rad64	9.68714e-09	1.000000	1.07517e-08	1.000000
rad58	5.61422e-09	1.000000	6.23115e-09	1.000000
rad42	4.47913e-09	1.000000	4.97133e-09	1.000000
rad65	2.93950e-09	1.000000	3.26252e-09	1.000000
rad68syn	1.19347e-09	1.000000	1.32462e-09	1.000000
rad68anti	8.00253e-10	1.000000	8.88191e-10	1.000000
PAH8+H	6.70059e-10	1.000000	7.43688e-10	1.000000
rad41	4.94036e-10	1.000000	5.48324e-10	1.000000
rad40syn	1.60979e-10	1.000000	1.78668e-10	1.000000

rad6	1.18279e-10	1.000000	1.31276e-10	1.000000
rad61	1.14010e-10	1.000000	1.26539e-10	1.000000
rad23	9.74598e-11	1.000000	1.08169e-10	1.000000
rad40anti	7.14866e-11	1.000000	7.93425e-11	1.000000
rad73	7.00113e-11	1.000000	7.77044e-11	1.000000
rad71	3.69105e-11	1.000000	4.09665e-11	1.000000
rad2	3.28429e-11	1.000000	3.64518e-11	1.000000
rad45	3.02093e-11	1.000000	3.35289e-11	1.000000
rad9	1.56391e-11	1.000000	1.73576e-11	1.000000
rad1	7.18326e-12	1.000000	7.97259e-12	1.000000
rad36	2.88645e-12	1.000000	3.20364e-12	1.000000
rad13	2.41405e-12	1.000000	2.67931e-12	1.000000
rad11	1.52592e-12	1.000000	1.69360e-12	1.000000
rad3	1.39877e-12	1.000000	1.55247e-12	1.000000
rad4	1.07342e-12	1.000000	1.19138e-12	1.000000
rad21	9.56170e-13	1.000000	1.06124e-12	1.000000
rad10	9.04089e-13	1.000000	1.00344e-12	1.000000
rad20	4.65015e-13	1.000000	5.16114e-13	1.000000
rad33	2.70083e-13	1.000000	2.99761e-13	1.000000
rad7	2.63115e-13	1.000000	2.92028e-13	1.000000
rad28	1.61261e-13	1.000000	1.78982e-13	1.000000
rad72	1.28636e-13	1.000000	1.42772e-13	1.000000
rad26	5.11440e-14	1.000000	5.67641e-14	1.000000
rad24	2.48801e-14	1.000000	2.76141e-14	1.000000
rad25	1.49322e-14	1.000000	1.65730e-14	1.000000
rad12	9.30074e-15	1.000000	1.03228e-14	1.000000
rad22	3.84630e-15	1.000000	4.26895e-15	1.000000
rad15	3.32508e-15	1.000000	3.69046e-15	1.000000
rad14	1.89450e-15	1.000000	2.10268e-15	1.000000
rad27	1.86043e-15	1.000000	2.06487e-15	1.000000
rad18	4.54917e-16	1.000000	5.04906e-16	1.000000
rad31	2.32684e-16	1.000000	2.58253e-16	1.000000
rad8	3.75825e-18	1.000000	4.17124e-18	1.000000
rad47	6.62590e-20	1.000000	7.35399e-20	1.000000
rad5	2.47603e-21	1.000000	2.74812e-21	1.000000

0.100000000E-03 Pa, 1100.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.22919e-12	(1.00)	1.06688e-12	(1.00)
Formation of rad11	3.87976e-13	(0.316)	3.11712e-13	(0.292)
Formation of rad6	4.37724e-13	(0.356)	3.51681e-13	(0.330)
H-abstraction	4.03491e-13	(0.328)	4.03491e-13	(0.378)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.328257	0.328257	0.378196	0.378196
Indene+H	0.214714	0.542971	0.247379	0.625574
C2H2+PhCH2	0.146502	0.689473	0.168789	0.794364
Phenyl+Allene	0.132044	0.821517	0.000000	0.794364
PhCHCCH2+H	0.0609574	0.882474	0.0702309	0.864595
PhCCH+CH3	0.0572446	0.939719	0.0659535	0.930548
PhCH2CCH+H	0.0407440	0.980463	0.0469425	0.977491
Ph+MeAc	0.00763489	0.988098	0.00879642	0.986287
PAH7+H	0.00694716	0.995045	0.00800405	0.994291
PhCCCH3+H	0.00267733	0.997722	0.00308464	0.997376
rad39	0.00150224	0.999224	0.00173078	0.999107
rad19anti	0.000315220	0.999539	0.000363175	0.999470
PAH9+H	0.000164386	0.999704	0.000189394	0.999659
rad19syn	7.45655e-05	0.999778	8.59091e-05	0.999745
rad38	6.50359e-05	0.999843	7.49299e-05	0.999820
rad30	3.82332e-05	0.999882	4.40497e-05	0.999864
rad35	3.25605e-05	0.999914	3.75140e-05	0.999902
rad54	2.39077e-05	0.999938	2.75448e-05	0.999929
PhcycC3H3_A+H	1.67306e-05	0.999955	1.92759e-05	0.999948
rad46	1.28371e-05	0.999968	1.47901e-05	0.999963
rad37	1.03715e-05	0.999978	1.19494e-05	0.999975
PAH3+H	4.83975e-06	0.999983	5.57602e-06	0.999981
PAH1+H	3.16887e-06	0.999986	3.65096e-06	0.999984
rad50	2.53500e-06	0.999989	2.92066e-06	0.999987
rad70	2.31279e-06	0.999991	2.66464e-06	0.999990
PAH10+CH3	2.25114e-06	0.999993	2.59361e-06	0.999993
rad67	1.57912e-06	0.999995	1.81935e-06	0.999994
rad55	1.19782e-06	0.999996	1.38006e-06	0.999996
rad60syn	1.15117e-06	0.999997	1.32630e-06	0.999997
rad60anti	6.62627e-07	0.999998	7.63433e-07	0.999998
rad59	6.18406e-07	0.999998	7.12482e-07	0.999999
rad62	3.93252e-07	0.999999	4.53078e-07	0.999999
rad34	3.40145e-07	0.999999	3.91892e-07	0.999999

rad51	2.38372e-07	0.999999	2.74636e-07	1.000000
rad52	1.25451e-07	1.000000	1.44537e-07	1.000000
rad53	7.80404e-08	1.000000	8.99129e-08	1.000000
rad43	6.37337e-08	1.000000	7.34295e-08	1.000000
rad56	3.84098e-08	1.000000	4.42533e-08	1.000000
rad64	2.61428e-08	1.000000	3.01199e-08	1.000000
rad58	1.20347e-08	1.000000	1.38656e-08	1.000000
rad42	9.67464e-09	1.000000	1.11465e-08	1.000000
rad65	7.50471e-09	1.000000	8.64644e-09	1.000000
rad68syn	4.04354e-09	1.000000	4.65870e-09	1.000000
PAH8+H	3.08736e-09	1.000000	3.55705e-09	1.000000
rad68anti	2.69715e-09	1.000000	3.10748e-09	1.000000
rad41	9.10258e-10	1.000000	1.04874e-09	1.000000
rad40syn	6.53836e-10	1.000000	7.53304e-10	1.000000
rad61	3.79381e-10	1.000000	4.37097e-10	1.000000
rad73	3.37960e-10	1.000000	3.89375e-10	1.000000
rad40anti	3.05537e-10	1.000000	3.52020e-10	1.000000
rad71	2.11244e-10	1.000000	2.43380e-10	1.000000
rad6	7.39488e-11	1.000000	8.51984e-11	1.000000
rad23	4.87787e-11	1.000000	5.61996e-11	1.000000
rad45	1.63174e-11	1.000000	1.87998e-11	1.000000
rad9	1.31506e-11	1.000000	1.51513e-11	1.000000
rad2	8.85881e-12	1.000000	1.02065e-11	1.000000
rad11	6.07238e-12	1.000000	6.99617e-12	1.000000
rad13	5.55450e-12	1.000000	6.39955e-12	1.000000
rad1	2.05915e-12	1.000000	2.37241e-12	1.000000
rad36	1.56728e-12	1.000000	1.80571e-12	1.000000
rad7	1.28107e-12	1.000000	1.47596e-12	1.000000
rad21	1.12704e-12	1.000000	1.29849e-12	1.000000
rad72	1.12068e-12	1.000000	1.29116e-12	1.000000
rad20	5.72536e-13	1.000000	6.59635e-13	1.000000
rad3	5.17351e-13	1.000000	5.96057e-13	1.000000
rad4	4.04925e-13	1.000000	4.66526e-13	1.000000
rad10	3.90999e-13	1.000000	4.50483e-13	1.000000
rad33	2.98579e-13	1.000000	3.44003e-13	1.000000
rad28	1.00562e-13	1.000000	1.15861e-13	1.000000
rad25	2.72799e-14	1.000000	3.14301e-14	1.000000
rad26	2.71502e-14	1.000000	3.12807e-14	1.000000
rad24	2.16988e-14	1.000000	2.49998e-14	1.000000
rad12	1.06575e-14	1.000000	1.22788e-14	1.000000
rad18	3.95984e-15	1.000000	4.56226e-15	1.000000
rad15	3.00221e-15	1.000000	3.45895e-15	1.000000
rad14	2.59107e-15	1.000000	2.98526e-15	1.000000
rad22	2.16489e-15	1.000000	2.49424e-15	1.000000
rad27	1.66825e-15	1.000000	1.92204e-15	1.000000
rad31	1.37107e-16	1.000000	1.57966e-16	1.000000
rad8	2.31129e-17	1.000000	2.66290e-17	1.000000
rad47	1.74355e-19	1.000000	2.00880e-19	1.000000
rad5	6.78406e-21	1.000000	7.81608e-21	1.000000

0.100000000E-03 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.50733e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.03336e-13 (0.268)
Formation of rad6	6.34764e-13 (0.352)	4.75183e-13 (0.315)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.417)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.417171	0.417171
Indene+H	0.168224	0.517107	0.201151	0.618322
Phenyl+Allene	0.163693	0.680800	0.000000	0.618322
C2H2+PhCH2	0.129445	0.810245	0.154782	0.773104
PhCHCCH2+H	0.0661470	0.876392	0.0790946	0.852199
PhCH2CCH+H	0.0526489	0.929041	0.0629537	0.915152
PhCCH+CH3	0.0518208	0.980862	0.0619641	0.977116
PAH7+H	0.00758545	0.988447	0.00907010	0.986186
Ph+MeAc	0.00700420	0.995451	0.00837514	0.994562
PhCCCH3+H	0.00195097	0.997402	0.00233284	0.996894
rad39	0.00157581	0.998978	0.00188425	0.998779
rad19anti	0.000399579	0.999378	0.000477791	0.999257
PAH9+H	0.000204702	0.999582	0.000244769	0.999501
rad19syn	0.000118863	0.999701	0.000142129	0.999643
rad38	8.27680e-05	0.999784	9.89685e-05	0.999742
rad54	4.05005e-05	0.999824	4.84277e-05	0.999791
rad35	3.92969e-05	0.999864	4.69886e-05	0.999838
rad30	3.73116e-05	0.999901	4.46148e-05	0.999882
PhcycC3H3_A+H	3.27086e-05	0.999934	3.91108e-05	0.999922

rad46	1.78869e-05	0.999952	2.13880e-05	0.999943
rad37	1.16239e-05	0.999963	1.38991e-05	0.999957
PAH3+H	6.95966e-06	0.999970	8.32193e-06	0.999965
PAH1+H	6.04571e-06	0.999976	7.22906e-06	0.999972
rad50	4.57121e-06	0.999981	5.46594e-06	0.999978
rad70	4.07150e-06	0.999985	4.86843e-06	0.999983
PAH10+CH3	3.83957e-06	0.999989	4.59109e-06	0.999987
rad67	2.96796e-06	0.999992	3.54889e-06	0.999991
rad55	2.19501e-06	0.999994	2.62464e-06	0.999993
rad60syn	1.37645e-06	0.999995	1.64587e-06	0.999995
rad59	8.52866e-07	0.999996	1.01981e-06	0.999996
rad60anti	8.03342e-07	0.999997	9.60578e-07	0.999997
rad34	6.59901e-07	0.999998	7.89063e-07	0.999998
rad62	5.91358e-07	0.999998	7.07106e-07	0.999999
rad51	5.25707e-07	0.999999	6.28605e-07	0.999999
rad52	2.50704e-07	0.999999	2.99775e-07	0.999999
rad53	1.90238e-07	0.999999	2.27474e-07	1.000000
rad56	1.09448e-07	0.999999	1.30871e-07	1.000000
rad43	7.76164e-08	0.999999	9.28086e-08	1.000000
rad64	5.85550e-08	0.999999	7.00159e-08	1.000000
rad58	2.24147e-08	0.999999	2.68020e-08	1.000000
rad42	1.82035e-08	0.999999	2.17665e-08	1.000000
rad65	1.63703e-08	0.999999	1.95745e-08	1.000000
rad68syn	1.10175e-08	0.999999	1.31740e-08	1.000000
PAH8+H	1.09227e-08	0.999999	1.30606e-08	1.000000
rad68anti	7.31621e-09	0.999999	8.74827e-09	1.000000
rad40syn	2.07794e-09	0.999999	2.48466e-09	1.000000
rad41	1.48024e-09	0.999999	1.76998e-09	1.000000
rad73	1.26655e-09	0.999999	1.51446e-09	1.000000
rad61	1.03672e-09	0.999999	1.23964e-09	1.000000
rad40anti	1.01429e-09	0.999999	1.21282e-09	1.000000
rad71	9.17587e-10	0.999999	1.09719e-09	1.000000
rad6	6.68508e-11	0.999999	7.99356e-11	1.000000
rad23	2.51796e-11	0.999999	3.01081e-11	1.000000
rad11	1.50650e-11	0.999999	1.80137e-11	1.000000
rad9	9.58464e-12	0.999999	1.14606e-11	1.000000
rad45	8.86841e-12	0.999999	1.06043e-11	1.000000
rad72	7.09099e-12	0.999999	8.47894e-12	1.000000
rad13	6.46715e-12	0.999999	7.73298e-12	1.000000
rad7	4.88651e-12	0.999999	5.84298e-12	1.000000
rad2	2.61810e-12	0.999999	3.13056e-12	1.000000
rad21	8.79041e-13	0.999999	1.05110e-12	1.000000
rad36	8.57938e-13	0.999999	1.02587e-12	1.000000
rad1	6.30465e-13	0.999999	7.53866e-13	1.000000
rad20	4.28304e-13	0.999999	5.12137e-13	1.000000
rad10	3.02838e-13	0.999999	3.62114e-13	1.000000
rad33	2.25861e-13	0.999999	2.70070e-13	1.000000
rad3	2.06913e-13	0.999999	2.47412e-13	1.000000
rad4	1.63852e-13	0.999999	1.95923e-13	1.000000
rad28	9.10691e-14	0.999999	1.08895e-13	1.000000
rad25	3.12054e-14	0.999999	3.73133e-14	1.000000
rad26	2.11485e-14	0.999999	2.52879e-14	1.000000
rad24	1.65803e-14	0.999999	1.98256e-14	1.000000
rad18	1.63240e-14	0.999999	1.95191e-14	1.000000
rad12	1.03519e-14	0.999999	1.23781e-14	1.000000
rad15	2.95634e-15	0.999999	3.53500e-15	1.000000
rad14	2.44021e-15	0.999999	2.91784e-15	1.000000
rad22	1.25649e-15	0.999999	1.50243e-15	1.000000
rad27	1.00951e-15	0.999999	1.20710e-15	1.000000
rad31	8.42038e-17	0.999999	1.00685e-16	1.000000
rad8	5.36818e-17	0.999999	6.41893e-17	1.000000
rad47	3.89981e-19	0.999999	4.66313e-19	1.000000
rad5	2.42654e-20	0.999999	2.90149e-20	1.000000

0.100000000E-03 Pa, 1300.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.54148e-12	(1.00)	2.05338e-12	(1.00)
Formation of rad11	7.22991e-13	(0.284)	5.03422e-13	(0.245)
Formation of rad6	8.84215e-13	(0.348)	6.15682e-13	(0.300)
H-abstraction	9.34273e-13	(0.368)	9.34273e-13	(0.455)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.367610	0.367610	0.454993	0.454993
Phenyl+Allene	0.192054	0.559664	0.000000	0.454993
Indene+H	0.131421	0.691086	0.162661	0.617654
C2H2+PhCH2	0.111295	0.802381	0.137750	0.755405
PhCHCCH2+H	0.0692296	0.871610	0.0856859	0.841091

PhCH2CCH+H	0.0636260	0.935236	0.0787507	0.919842
PhCCH+CH3	0.0461559	0.981392	0.0571276	0.976969
PAH7+H	0.00794566	0.989338	0.00983443	0.986804
Ph+MeAc	0.00637082	0.995709	0.00788521	0.994689
rad39	0.00158196	0.997291	0.00195800	0.996647
PhCCCH3+H	0.00142376	0.998714	0.00176219	0.998409
rad19anti	0.000475489	0.999190	0.000588514	0.998997
PAH9+H	0.000242131	0.999432	0.000299688	0.999297
rad19syn	0.000174660	0.999607	0.000216178	0.999513
rad38	9.98860e-05	0.999707	0.000123629	0.999637
rad54	6.26274e-05	0.999769	7.75141e-05	0.999714
PhcycC3H3_A+H	5.74351e-05	0.999827	7.10879e-05	0.999786
rad35	4.53516e-05	0.999872	5.61319e-05	0.999842
rad30	3.53185e-05	0.999907	4.37139e-05	0.999885
rad46	2.33611e-05	0.999931	2.89142e-05	0.999914
rad37	1.29873e-05	0.999944	1.60744e-05	0.999930
PAH1+H	1.02825e-05	0.999954	1.27267e-05	0.999943
PAH3+H	9.32004e-06	0.999963	1.15354e-05	0.999955
rad50	7.49585e-06	0.999971	9.27765e-06	0.999964
rad70	6.43021e-06	0.999977	7.95868e-06	0.999972
PAH10+CH3	6.07786e-06	0.999983	7.52262e-06	0.999979
rad67	4.99567e-06	0.999988	6.18315e-06	0.999986
rad55	3.63003e-06	0.999992	4.49291e-06	0.999990
rad60syn	1.56340e-06	0.999993	1.93503e-06	0.999992
rad34	1.13462e-06	0.999995	1.40432e-06	0.999993
rad59	1.09806e-06	0.999996	1.35907e-06	0.999995
rad51	1.02620e-06	0.999997	1.27014e-06	0.999996
rad60anti	9.23688e-07	0.999998	1.14325e-06	0.999997
rad62	8.25901e-07	0.999998	1.02222e-06	0.999998
rad52	4.48900e-07	0.999999	5.55607e-07	0.999999
rad53	4.02868e-07	0.999999	4.98632e-07	0.999999
rad56	2.64598e-07	1.000000	3.27496e-07	1.000000
rad64	1.13755e-07	1.000000	1.40795e-07	1.000000
rad43	8.95932e-08	1.000000	1.10890e-07	1.000000
rad58	3.75497e-08	1.000000	4.64755e-08	1.000000
rad65	3.15601e-08	1.000000	3.90621e-08	1.000000
PAH8+H	3.15023e-08	1.000000	3.89905e-08	1.000000
rad42	3.09037e-08	1.000000	3.82497e-08	1.000000
rad68syn	2.53721e-08	1.000000	3.14033e-08	1.000000
rad68anti	1.67834e-08	1.000000	2.07729e-08	1.000000
rad40syn	5.46373e-09	1.000000	6.76250e-09	1.000000
rad73	3.88974e-09	1.000000	4.81436e-09	1.000000
rad71	3.20244e-09	1.000000	3.96367e-09	1.000000
rad40anti	2.76933e-09	1.000000	3.42762e-09	1.000000
rad61	2.41929e-09	1.000000	2.99437e-09	1.000000
rad41	2.20456e-09	1.000000	2.72860e-09	1.000000
rad6	7.43608e-11	1.000000	9.20369e-11	1.000000
rad72	3.39631e-11	1.000000	4.20364e-11	1.000000
rad11	2.13380e-11	1.000000	2.64103e-11	1.000000
rad23	1.33975e-11	1.000000	1.65822e-11	1.000000
rad7	1.10318e-11	1.000000	1.36542e-11	1.000000
rad9	6.54815e-12	1.000000	8.10468e-12	1.000000
rad13	4.91983e-12	1.000000	6.08930e-12	1.000000
rad45	4.87371e-12	1.000000	6.03224e-12	1.000000
rad2	8.29923e-13	1.000000	1.02720e-12	1.000000
rad21	5.91330e-13	1.000000	7.31895e-13	1.000000
rad36	4.75578e-13	1.000000	5.88623e-13	1.000000
rad20	2.63325e-13	1.000000	3.25918e-13	1.000000
rad10	2.60076e-13	1.000000	3.21898e-13	1.000000
rad1	2.04555e-13	1.000000	2.53179e-13	1.000000
rad33	1.50408e-13	1.000000	1.86161e-13	1.000000
rad28	1.13910e-13	1.000000	1.40987e-13	1.000000
rad3	8.79705e-14	1.000000	1.08882e-13	1.000000
rad4	7.02351e-14	1.000000	8.69307e-14	1.000000
rad18	3.07383e-14	1.000000	3.80451e-14	1.000000
rad25	2.61840e-14	1.000000	3.24081e-14	1.000000
rad26	2.07361e-14	1.000000	2.56652e-14	1.000000
rad24	1.21061e-14	1.000000	1.49838e-14	1.000000
rad12	9.25054e-15	1.000000	1.14494e-14	1.000000
rad15	6.92815e-15	1.000000	8.57497e-15	1.000000
rad14	1.73628e-15	1.000000	2.14901e-15	1.000000
rad22	9.97570e-16	1.000000	1.23470e-15	1.000000
rad27	4.96158e-16	1.000000	6.14097e-16	1.000000
rad8	7.86598e-17	1.000000	9.73573e-17	1.000000
rad31	5.35121e-17	1.000000	6.62325e-17	1.000000
rad47	7.66887e-19	1.000000	9.49183e-19	1.000000
rad5	9.67443e-20	1.000000	1.19741e-19	1.000000

0.100000000E-03 Pa, 1400.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.47024e-12 (1.00)	2.71984e-12 (1.00)
Formation of rad11	9.43269e-13 (0.272)	6.11768e-13 (0.225)
Formation of rad6	1.19194e-12 (0.343)	7.73043e-13 (0.284)
H-abstraction	1.33503e-12 (0.385)	1.33503e-12 (0.491)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.490849	0.490849
Phenyl+Allene	0.216237	0.600946	0.00000	0.490849
Indene+H	0.102753	0.703699	0.131102	0.621951
C2H2+PhCH2	0.0940337	0.797733	0.119977	0.741928
PhCH2CCH+H	0.0730480	0.870781	0.0932017	0.835129
PhCHCCH2+H	0.0704361	0.941217	0.0898693	0.924998
PhCCH+CH3	0.0407709	0.981988	0.0520195	0.977018
PAH7+H	0.00808062	0.990068	0.0103100	0.987328
Ph+MeAc	0.00578254	0.995851	0.00737791	0.994706
rad39	0.00153900	0.997390	0.00196361	0.996669
PhCCCH3+H	0.00104907	0.998439	0.00133851	0.998008
rad19anti	0.000537563	0.998977	0.000685873	0.998694
PAH9+H	0.000275092	0.999252	0.000350989	0.999045
rad19syn	0.000241019	0.999493	0.000307515	0.999352
rad38	0.000115616	0.999608	0.000147513	0.999500
PhcycC3H3_A+H	9.27188e-05	0.999701	0.000118299	0.999618
rad54	9.02066e-05	0.999791	0.000115094	0.999733
rad35	5.05796e-05	0.999842	6.45344e-05	0.999798
rad30	3.27889e-05	0.999875	4.18352e-05	0.999840
rad46	2.89889e-05	0.999904	3.69868e-05	0.999877
PAH1+H	1.59963e-05	0.999920	2.04096e-05	0.999897
rad37	1.43563e-05	0.999934	1.83172e-05	0.999915
PAH3+H	1.18378e-05	0.999946	1.51038e-05	0.999930
rad50	1.13924e-05	0.999957	1.45355e-05	0.999945
rad70	9.33021e-06	0.999967	1.19044e-05	0.999957
PAH10+CH3	9.00294e-06	0.999976	1.14868e-05	0.999968
rad67	7.68554e-06	0.999983	9.80595e-06	0.999978
rad55	5.54137e-06	0.999989	7.07023e-06	0.999985
rad51	1.81654e-06	0.999991	2.31772e-06	0.999988
rad34	1.77488e-06	0.999992	2.26456e-06	0.999990
rad60syn	1.71203e-06	0.999994	2.18438e-06	0.999992
rad59	1.34390e-06	0.999995	1.71468e-06	0.999994
rad62	1.09238e-06	0.999997	1.39377e-06	0.999995
rad60anti	1.02264e-06	0.999998	1.30479e-06	0.999996
rad53	7.63459e-07	0.999998	9.74098e-07	0.999997
rad52	7.36190e-07	0.999999	9.39297e-07	0.999998
rad56	5.61676e-07	1.000000	7.16641e-07	0.999999
rad64	1.97836e-07	1.000000	2.52418e-07	0.999999
rad43	1.00004e-07	1.000000	1.27595e-07	0.999999
PAH8+H	7.73009e-08	1.000000	9.86282e-08	1.000000
rad58	5.80225e-08	1.000000	7.40306e-08	1.000000
rad65	5.51354e-08	1.000000	7.03469e-08	1.000000
rad68syn	5.11875e-08	1.000000	6.53098e-08	1.000000
rad42	4.85214e-08	1.000000	6.19082e-08	1.000000
rad68anti	3.37456e-08	1.000000	4.30559e-08	1.000000
rad40syn	1.23711e-08	1.000000	1.57842e-08	1.000000
rad73	1.01769e-08	1.000000	1.29847e-08	1.000000
rad71	9.36215e-09	1.000000	1.19451e-08	1.000000
rad40anti	6.47926e-09	1.000000	8.26688e-09	1.000000
rad61	4.96370e-09	1.000000	6.33318e-09	1.000000
rad41	3.08784e-09	1.000000	3.93976e-09	1.000000
rad72	1.29425e-10	1.000000	1.65134e-10	1.000000
rad6	9.92046e-11	1.000000	1.26575e-10	1.000000
rad11	1.92751e-11	1.000000	2.45930e-11	1.000000
rad7	1.43667e-11	1.000000	1.83305e-11	1.000000
rad23	7.34418e-12	1.000000	9.37042e-12	1.000000
rad9	4.31722e-12	1.000000	5.50830e-12	1.000000
rad13	3.13852e-12	1.000000	4.00443e-12	1.000000
rad45	2.71837e-12	1.000000	3.46836e-12	1.000000
rad21	3.81060e-13	1.000000	4.86193e-13	1.000000
rad2	2.79751e-13	1.000000	3.56933e-13	1.000000
rad36	2.67751e-13	1.000000	3.41623e-13	1.000000
rad28	1.78679e-13	1.000000	2.27976e-13	1.000000
rad10	1.72805e-13	1.000000	2.20481e-13	1.000000
rad20	1.53041e-13	1.000000	1.95264e-13	1.000000
rad33	9.75778e-14	1.000000	1.24499e-13	1.000000
rad1	7.01967e-14	1.000000	8.95638e-14	1.000000
rad3	3.94571e-14	1.000000	5.03432e-14	1.000000
rad18	3.17480e-14	1.000000	4.05071e-14	1.000000
rad4	3.17040e-14	1.000000	4.04510e-14	1.000000
rad26	2.19340e-14	1.000000	2.79855e-14	1.000000

rad25	1.93942e-14	1.00000	2.47450e-14	1.000000
rad15	1.86343e-14	1.00000	2.37754e-14	1.000000
rad24	8.67708e-15	1.00000	1.10711e-14	1.000000
rad12	7.86877e-15	1.00000	1.00397e-14	1.000000
rad22	2.91036e-15	1.00000	3.71331e-15	1.000000
rad14	1.10832e-15	1.00000	1.41410e-15	1.000000
rad27	2.35650e-16	1.00000	3.00664e-16	1.000000
rad8	9.26462e-17	1.00000	1.18207e-16	1.000000
rad31	3.51109e-17	1.00000	4.47979e-17	1.000000
rad47	1.36054e-18	1.00000	1.73591e-18	1.000000
rad5	3.59152e-19	1.00000	4.58240e-19	1.000000

0.100000000E-03 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.61271e-12 (1.00)	3.52361e-12 (1.00)
Formation of rad11	1.20217e-12 (0.261)	7.28782e-13 (0.207)
Formation of rad6	1.56360e-12 (0.339)	9.47887e-13 (0.269)
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.524)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.524162	0.524162
Phenyl+Allene	0.236109	0.636511	0.000000	0.524162
Indene+H	0.0806435	0.717155	0.105570	0.629731
PhCH2CCH+H	0.0806387	0.797793	0.105563	0.735294
C2H2+PhCH2	0.0787062	0.876500	0.103033	0.838328
PhCHCCH2+H	0.0701571	0.946657	0.0918421	0.930170
PhCCH+CH3	0.0359368	0.982594	0.0470444	0.977214
PAH7+H	0.00805110	0.990645	0.0105396	0.987754
Ph+MeAc	0.00526035	0.995905	0.00688624	0.994640
rad39	0.00146497	0.997370	0.00191777	0.996558
PhCCCH3+H	0.000785539	0.998156	0.00102834	0.997586
rad19anti	0.000582991	0.998739	0.000763188	0.998349
rad19syn	0.000316567	0.999055	0.000414413	0.998764
PAH9+H	0.000302845	0.999358	0.000396450	0.999160
PhcycC3H3_A+H	0.000139913	0.999498	0.000183158	0.999343
rad38	0.000129499	0.999627	0.000169526	0.999513
rad54	0.000122808	0.999750	0.000160767	0.999674
rad35	5.49599e-05	0.999805	7.19472e-05	0.999746
rad46	3.45380e-05	0.999840	4.52132e-05	0.999791
rad30	3.01156e-05	0.999870	3.94239e-05	0.999830
PAH1+H	2.31901e-05	0.999893	3.03579e-05	0.999861
rad50	1.62766e-05	0.999909	2.13074e-05	0.999882
rad37	1.56192e-05	0.999925	2.04470e-05	0.999902
PAH3+H	1.44553e-05	0.999939	1.89232e-05	0.999921
rad70	1.26613e-05	0.999952	1.65747e-05	0.999938
PAH10+CH3	1.25752e-05	0.999965	1.64620e-05	0.999954
rad67	1.09793e-05	0.999976	1.43728e-05	0.999969
rad55	7.93592e-06	0.999983	1.03888e-05	0.999979
rad51	2.96749e-06	0.999986	3.88470e-06	0.999983
rad34	2.57549e-06	0.999989	3.37153e-06	0.999986
rad60syn	1.82792e-06	0.999991	2.39290e-06	0.999989
rad59	1.58467e-06	0.999992	2.07447e-06	0.999991
rad62	1.38706e-06	0.999994	1.81579e-06	0.999993
rad53	1.32204e-06	0.999995	1.73067e-06	0.999994
rad52	1.12378e-06	0.999996	1.47114e-06	0.999996
rad60anti	1.10268e-06	0.999997	1.44350e-06	0.999997
rad56	1.07222e-06	0.999998	1.40364e-06	0.999999
rad64	3.15087e-07	0.999999	4.12476e-07	0.999999
PAH8+H	1.66252e-07	0.999999	2.17639e-07	0.999999
rad43	1.09523e-07	0.999999	1.43375e-07	0.999999
rad68syn	9.28291e-08	0.999999	1.21521e-07	0.999999
rad65	8.88724e-08	0.999999	1.16342e-07	1.000000
rad58	8.42069e-08	0.999999	1.10234e-07	1.000000
rad42	7.16663e-08	0.999999	9.38173e-08	1.000000
rad68anti	6.10163e-08	0.999999	7.98757e-08	1.000000
rad40syn	2.48114e-08	0.999999	3.24802e-08	1.000000
rad71	2.35639e-08	0.999999	3.08473e-08	1.000000
rad73	2.32861e-08	0.999999	3.04835e-08	1.000000
rad40anti	1.33700e-08	0.999999	1.75025e-08	1.000000
rad61	9.14968e-09	0.999999	1.19777e-08	1.000000
rad41	4.14357e-09	0.999999	5.42427e-09	1.000000
rad72	4.05223e-10	0.999999	5.30474e-10	1.000000
rad6	1.49588e-10	0.999999	1.95824e-10	1.000000
rad11	1.35885e-11	0.999999	1.77886e-11	1.000000
rad7	1.25339e-11	0.999999	1.64080e-11	1.000000
rad23	4.13429e-12	0.999999	5.41214e-12	1.000000
rad9	2.79621e-12	0.999999	3.66048e-12	1.000000

rad13	1.89913e-12	0.999999	2.48613e-12	1.00000
rad45	1.54295e-12	0.999999	2.01986e-12	1.00000
rad28	3.01881e-13	0.999999	3.95188e-13	1.00000
rad21	2.42952e-13	0.999999	3.18045e-13	1.00000
rad36	1.53430e-13	0.999999	2.00854e-13	1.00000
rad2	1.00174e-13	0.999999	1.31137e-13	1.00000
rad10	9.09038e-14	0.999999	1.19001e-13	1.00000
rad20	8.79178e-14	0.999999	1.15092e-13	1.00000
rad33	6.33589e-14	0.999999	8.29429e-14	1.00000
rad15	3.02164e-14	0.999999	3.95560e-14	1.00000
rad1	2.55059e-14	0.999999	3.33895e-14	1.00000
rad18	2.34707e-14	0.999999	3.07253e-14	1.00000
rad26	2.22310e-14	0.999999	2.91024e-14	1.00000
rad3	1.86036e-14	0.999999	2.43537e-14	1.00000
rad4	1.50234e-14	0.999999	1.96669e-14	1.00000
rad25	1.37831e-14	0.999999	1.80433e-14	1.00000
rad22	1.33719e-14	0.999999	1.75050e-14	1.00000
rad12	6.49250e-15	0.999999	8.49924e-15	1.00000
rad24	6.18581e-15	0.999999	8.09777e-15	1.00000
rad14	6.98945e-16	0.999999	9.14985e-16	1.00000
rad27	1.15749e-16	0.999999	1.51525e-16	1.00000
rad8	9.76883e-17	0.999999	1.27883e-16	1.00000
rad31	2.37694e-17	0.999999	3.11163e-17	1.00000
rad47	2.21852e-18	0.999999	2.90423e-18	1.00000
rad5	1.06412e-18	0.999999	1.39303e-18	1.00000

0.100000000E-03 Pa, 1750.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	8.61869e-12	(1.00)	6.27400e-12	(1.00)
Formation of rad11	2.04015e-12	(0.237)	1.05237e-12	(0.168)
Formation of rad6	2.80256e-12	(0.325)	1.44565e-12	(0.230)
H-abstraction	3.77597e-12	(0.438)	3.77597e-12	(0.602)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.601845	0.601845
Phenyl+Allene	0.272047	0.710162	0.00000	0.601845
PhCH2CCH+H	0.0933387	0.803501	0.128221	0.730066
PhCHCCH2+H	0.0656327	0.869134	0.0901606	0.820227
C2H2+PhCH2	0.0475978	0.916731	0.0653858	0.885612
Indene+H	0.0395372	0.956269	0.0543127	0.939925
PhCCH+CH3	0.0276514	0.983920	0.0379853	0.977910
PAH7+H	0.00712605	0.991046	0.00978916	0.987700
Ph+MeAc	0.00488545	0.995931	0.00671122	0.994411
rad39	0.00123375	0.997165	0.00169483	0.996106
rad19anti	0.000564116	0.997729	0.000774933	0.996881
rad19syn	0.000506158	0.998235	0.000695318	0.997576
PhCCCH3+H	0.000461483	0.998697	0.000633946	0.998210
PhcycC3H3_A+H	0.000354596	0.999052	0.000487115	0.998697
PAH9+H	0.000266731	0.999318	0.000366412	0.999063
rad54	0.000215004	0.999533	0.000295354	0.999359
rad38	0.000142764	0.999676	0.000196118	0.999555
rad35	4.88397e-05	0.999725	6.70919e-05	0.999622
PAH1+H	4.24056e-05	0.999767	5.82532e-05	0.999680
rad46	3.79670e-05	0.999805	5.21559e-05	0.999732
rad50	2.38701e-05	0.999829	3.27908e-05	0.999765
rad30	2.30179e-05	0.999852	3.16201e-05	0.999797
PAH10+CH3	2.22275e-05	0.999874	3.05343e-05	0.999827
rad70	2.20506e-05	0.999896	3.02913e-05	0.999858
PAH3+H	2.08052e-05	0.999917	2.85805e-05	0.999886
rad55	1.72026e-05	0.999934	2.36314e-05	0.999910
rad67	1.69163e-05	0.999951	2.32382e-05	0.999933
rad37	1.61425e-05	0.999968	2.21752e-05	0.999955
rad51	6.11253e-06	0.999974	8.39689e-06	0.999964
rad34	5.25680e-06	0.999979	7.22134e-06	0.999971
rad53	4.39527e-06	0.999983	6.03786e-06	0.999977
rad56	3.99314e-06	0.999987	5.48546e-06	0.999982
rad62	2.35598e-06	0.999990	3.23645e-06	0.999986
rad59	2.06481e-06	0.999992	2.83647e-06	0.999988
rad52	2.03181e-06	0.999994	2.79113e-06	0.999991
rad60syn	1.94292e-06	0.999996	2.66902e-06	0.999994
rad60anti	1.30713e-06	0.999997	1.79563e-06	0.999996
rad64	7.88600e-07	0.999998	1.08332e-06	0.999997
PAH8+H	5.90480e-07	0.999998	8.11153e-07	0.999998
rad68syn	2.81742e-07	0.999999	3.87034e-07	0.999998
rad68anti	1.82569e-07	0.999999	2.50799e-07	0.999998
rad65	1.74383e-07	0.999999	2.39552e-07	0.999998
rad42	1.70585e-07	0.999999	2.34336e-07	0.999999

rad58	1.57351e-07	0.999999	2.16156e-07	0.999999
rad43	1.31435e-07	0.999999	1.80554e-07	0.999999
rad71	1.24698e-07	1.000000	1.71300e-07	0.999999
rad73	9.95919e-08	1.000000	1.36811e-07	0.999999
rad40syn	8.39457e-08	1.000000	1.15318e-07	1.000000
rad40anti	5.01024e-08	1.000000	6.88266e-08	1.000000
rad61	2.64237e-08	1.000000	3.62987e-08	1.000000
rad41	7.91859e-09	1.000000	1.08779e-08	1.000000
rad72	3.69540e-09	1.000000	5.07644e-09	1.000000
rad6	2.93033e-10	1.000000	4.02547e-10	1.000000
rad7	2.29510e-12	1.000000	3.15281e-12	1.000000
rad11	1.74096e-12	1.000000	2.39158e-12	1.000000
rad28	6.52214e-13	1.000000	8.95956e-13	1.000000
rad23	6.29812e-13	1.000000	8.65179e-13	1.000000
rad9	2.23074e-13	1.000000	3.06440e-13	1.000000
rad13	1.60845e-13	1.000000	2.20956e-13	1.000000
rad45	1.32513e-13	1.000000	1.82035e-13	1.000000
rad22	8.46491e-14	1.000000	1.16284e-13	1.000000
rad36	2.29393e-14	1.000000	3.15121e-14	1.000000
rad21	1.98012e-14	1.000000	2.72012e-14	1.000000
rad26	1.35067e-14	1.000000	1.85543e-14	1.000000
rad15	1.11897e-14	1.000000	1.53715e-14	1.000000
rad10	7.85578e-15	1.000000	1.07916e-14	1.000000
rad20	6.44623e-15	1.000000	8.85532e-15	1.000000
rad33	5.54006e-15	1.000000	7.61049e-15	1.000000
rad18	2.99786e-15	1.000000	4.11820e-15	1.000000
rad2	2.77603e-15	1.000000	3.81348e-15	1.000000
rad25	1.43077e-15	1.000000	1.96547e-15	1.000000
rad12	7.47122e-16	1.000000	1.02634e-15	1.000000
rad1	7.45088e-16	1.000000	1.02354e-15	1.000000
rad3	6.46252e-16	1.000000	8.87770e-16	1.000000
rad24	6.07027e-16	1.000000	8.33884e-16	1.000000
rad4	4.14093e-16	1.000000	5.68844e-16	1.000000
rad14	7.58534e-17	1.000000	1.04201e-16	1.000000
rad8	2.76592e-17	1.000000	3.79959e-17	1.000000
rad27	6.88478e-18	1.000000	9.45777e-18	1.000000
rad5	5.56033e-18	1.000000	7.63832e-18	1.000000
rad47	1.43456e-18	1.000000	1.97067e-18	1.000000

0.100000000E-03 Pa, 2000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.44111e-11 (1.00)	1.02930e-11 (1.00)
Formation of rad11	3.16882e-12 (0.220)	1.47449e-12 (0.143)
Formation of rad6	4.53302e-12 (0.315)	2.10927e-12 (0.205)
H-abstraction	6.70922e-12 (0.466)	6.70922e-12 (0.652)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.651825	0.651825
Phenyl+Allene	0.285759	0.751319	0.000000	0.651825
PhCH2CCH+H	0.0971788	0.848498	0.136059	0.787884
PhCHCCH2+H	0.0592993	0.907797	0.0830241	0.870908
C2H2+PhCH2	0.0319942	0.939791	0.0447948	0.915703
Indene+H	0.0233046	0.963096	0.0326284	0.948331
PhCCH+CH3	0.0216466	0.984742	0.0303071	0.978638
PAH7+H	0.00659328	0.991336	0.00923114	0.987869
Ph+MeAc	0.00420938	0.995545	0.00589349	0.993763
rad39	0.00101472	0.996560	0.00142069	0.995183
rad19syn	0.000746783	0.997306	0.00104557	0.996229
PhcycC3H3_A+H	0.000656335	0.997963	0.000918925	0.997148
rad19anti	0.000529228	0.998492	0.000740966	0.997889
rad54	0.000330237	0.998822	0.000462359	0.998351
PhCCCH3+H	0.000291962	0.999114	0.000408772	0.998760
PAH9+H	0.000279546	0.999394	0.000391387	0.999151
rad38	0.000156414	0.999550	0.000218994	0.999370
PAH1+H	6.96990e-05	0.999620	9.75848e-05	0.999468
rad35	5.18637e-05	0.999672	7.26137e-05	0.999541
rad46	4.57412e-05	0.999717	6.40416e-05	0.999605
rad50	3.87497e-05	0.999756	5.42530e-05	0.999659
PAH10+CH3	3.34470e-05	0.999790	4.68285e-05	0.999706
rad70	3.20125e-05	0.999822	4.48203e-05	0.999751
rad55	2.86889e-05	0.999850	4.01669e-05	0.999791
PAH3+H	2.79049e-05	0.999878	3.90694e-05	0.999830
rad67	2.51584e-05	0.999903	3.52238e-05	0.999865
rad30	1.88901e-05	0.999922	2.64479e-05	0.999891
rad37	1.66057e-05	0.999939	2.32494e-05	0.999915
rad51	1.22963e-05	0.999951	1.72160e-05	0.999932
rad56	1.03249e-05	0.999961	1.44559e-05	0.999946

rad53	9.90974e-06	0.999971	1.38745e-05	0.999960
rad34	8.56178e-06	0.999980	1.19873e-05	0.999972
rad52	3.64112e-06	0.999984	5.09788e-06	0.999977
rad62	3.41505e-06	0.999987	4.78139e-06	0.999982
rad59	2.58714e-06	0.999990	3.62224e-06	0.999986
rad60syn	2.06844e-06	0.999992	2.89599e-06	0.999989
PAH8+H	1.81455e-06	0.999993	2.54053e-06	0.999991
rad64	1.47576e-06	0.999995	2.06619e-06	0.999993
rad60anti	1.42207e-06	0.999996	1.99102e-06	0.999995
rad68syn	6.53892e-07	0.999997	9.15510e-07	0.999996
rad71	4.98025e-07	0.999998	6.97280e-07	0.999997
rad68anti	4.21792e-07	0.999998	5.90544e-07	0.999997
rad73	3.38736e-07	0.999998	4.74260e-07	0.999998
rad65	3.37785e-07	0.999999	4.72930e-07	0.999998
rad42	3.12138e-07	0.999999	4.37019e-07	0.999999
rad58	2.75720e-07	0.999999	3.86032e-07	0.999999
rad40syn	2.27523e-07	0.999999	3.18551e-07	1.000000
rad43	1.62531e-07	1.000000	2.27558e-07	1.000000
rad40anti	1.42660e-07	1.000000	1.99737e-07	1.000000
rad61	5.98888e-08	1.000000	8.38493e-08	1.000000
rad72	2.09309e-08	1.000000	2.93050e-08	1.000000
rad41	1.34670e-08	1.000000	1.88550e-08	1.000000
rad6	6.06065e-11	1.000000	8.48548e-11	1.000000
rad7	5.25153e-13	1.000000	7.35259e-13	1.000000
rad11	4.12511e-13	1.000000	5.77550e-13	1.000000
rad23	3.31906e-13	1.000000	4.64696e-13	1.000000
rad28	2.03742e-13	1.000000	2.85257e-13	1.000000
rad9	7.58878e-14	1.000000	1.06249e-13	1.000000
rad13	4.89606e-14	1.000000	6.85491e-14	1.000000
rad45	4.02919e-14	1.000000	5.64121e-14	1.000000
rad22	2.65566e-14	1.000000	3.71816e-14	1.000000
rad21	7.16422e-15	1.000000	1.00305e-14	1.000000
rad36	7.13621e-15	1.000000	9.99134e-15	1.000000
rad15	3.98371e-15	1.000000	5.57756e-15	1.000000
rad26	3.13200e-15	1.000000	4.38506e-15	1.000000
rad33	2.26331e-15	1.000000	3.16884e-15	1.000000
rad20	1.89432e-15	1.000000	2.65220e-15	1.000000
rad10	1.15606e-15	1.000000	1.61858e-15	1.000000
rad18	6.66201e-16	1.000000	9.32737e-16	1.000000
rad25	5.79819e-16	1.000000	8.11799e-16	1.000000
rad12	4.14756e-16	1.000000	5.80694e-16	1.000000
rad2	3.68416e-16	1.000000	5.15815e-16	1.000000
rad24	2.85159e-16	1.000000	3.99249e-16	1.000000
rad3	1.63766e-16	1.000000	2.29286e-16	1.000000
rad4	1.04159e-16	1.000000	1.45831e-16	1.000000
rad1	1.02117e-16	1.000000	1.42973e-16	1.000000
rad14	2.92676e-17	1.000000	4.09771e-17	1.000000
rad8	2.34712e-17	1.000000	3.28617e-17	1.000000
rad5	3.75871e-18	1.000000	5.26253e-18	1.000000
rad47	2.86742e-18	1.000000	4.01464e-18	1.000000
rad27	1.89910e-18	1.000000	2.65891e-18	1.000000

0.100000000E-03 Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.23655e-11 (1.00)	1.58437e-11 (1.00)
Formation of rad11	4.62280e-12 (0.207)	1.98925e-12 (0.126)
Formation of rad6	6.82518e-12 (0.305)	2.93696e-12 (0.185)
H-abstraction	1.09175e-11 (0.488)	1.09175e-11 (0.689)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.689074	0.689074
Phenyl+Allene	0.291600	0.779740	0.000000	0.689074
PhCH2CCH+H	0.0967415	0.876482	0.136563	0.825637
PhCHCCH2+H	0.0532744	0.929756	0.0752040	0.900841
C2H2+PhCH2	0.0232642	0.953020	0.0328403	0.933682
PhCCH+CH3	0.0176492	0.970669	0.0249142	0.958596
Indene+H	0.0145378	0.985207	0.0205221	0.979118
PAH7+H	0.00604332	0.991251	0.00853097	0.987649
Ph+MeAc	0.00373478	0.994985	0.00527212	0.992921
PhcycC3H3_A+H	0.00104439	0.996030	0.00147430	0.994395
rad19syn	0.000992650	0.997022	0.00140125	0.995797
rad39	0.000833753	0.997856	0.00117695	0.996974
rad19anti	0.000463520	0.998320	0.000654319	0.997628
rad54	0.000448432	0.998768	0.000633020	0.998261
PAH9+H	0.000276004	0.999044	0.000389615	0.998651
PhCCCH3+H	0.000209665	0.999254	0.000295970	0.998946
rad38	0.000160719	0.999414	0.000226876	0.999173

PAH1+H	9.95931e-05	0.999514	0.000140589	0.999314
rad50	5.46328e-05	0.999569	7.71214e-05	0.999391
rad35	5.24979e-05	0.999621	7.41079e-05	0.999465
rad46	5.06983e-05	0.999672	7.15674e-05	0.999537
PAH10+CH3	4.32190e-05	0.999715	6.10093e-05	0.999598
rad55	4.15447e-05	0.999757	5.86459e-05	0.999656
rad70	4.13232e-05	0.999798	5.83331e-05	0.999715
PAH3+H	3.54273e-05	0.999833	5.00103e-05	0.999765
rad67	3.21710e-05	0.999866	4.54135e-05	0.999810
rad56	2.10958e-05	0.999887	2.97795e-05	0.999840
rad51	2.05290e-05	0.999907	2.89794e-05	0.999869
rad53	1.82253e-05	0.999925	2.57273e-05	0.999895
rad30	1.61770e-05	0.999942	2.28359e-05	0.999917
rad37	1.58091e-05	0.999957	2.23166e-05	0.999940
rad34	1.21378e-05	0.999970	1.71341e-05	0.999957
rad52	5.53699e-06	0.999975	7.81618e-06	0.999965
rad62	4.54170e-06	0.999980	6.41120e-06	0.999971
PAH8+H	4.26413e-06	0.999984	6.01937e-06	0.999977
rad59	3.10133e-06	0.999987	4.37793e-06	0.999982
rad64	2.31389e-06	0.999989	3.26637e-06	0.999985
rad60syn	2.18352e-06	0.999991	3.08232e-06	0.999988
rad60anti	1.52762e-06	0.999993	2.15643e-06	0.999990
rad71	1.42621e-06	0.999994	2.01328e-06	0.999992
rad68syn	1.22834e-06	0.999996	1.73396e-06	0.999994
rad73	8.52958e-07	0.999996	1.20406e-06	0.999995
rad68anti	7.89692e-07	0.999997	1.11475e-06	0.999996
rad65	5.43585e-07	0.999998	7.67340e-07	0.999997
rad42	4.97942e-07	0.999998	7.02910e-07	0.999998
rad40syn	4.83630e-07	0.999999	6.82706e-07	0.999998
rad58	4.30302e-07	0.999999	6.07428e-07	0.999999
rad40anti	3.15359e-07	1.000000	4.45171e-07	0.999999
rad43	2.01350e-07	1.000000	2.84232e-07	1.000000
rad61	1.06762e-07	1.000000	1.50709e-07	1.000000
rad72	7.85254e-08	1.000000	1.10849e-07	1.000000
rad41	2.11925e-08	1.000000	2.99160e-08	1.000000
rad6	1.20554e-11	1.000000	1.70178e-11	1.000000
rad7	1.68574e-13	1.000000	2.37965e-13	1.000000
rad11	1.28927e-13	1.000000	1.81997e-13	1.000000
rad23	8.94818e-14	1.000000	1.26316e-13	1.000000
rad28	4.35688e-14	1.000000	6.15030e-14	1.000000
rad9	2.75820e-14	1.000000	3.89357e-14	1.000000
rad13	1.82811e-14	1.000000	2.58062e-14	1.000000
rad45	1.39800e-14	1.000000	1.97346e-14	1.000000
rad22	6.74810e-15	1.000000	9.52581e-15	1.000000
rad21	2.97971e-15	1.000000	4.20624e-15	1.000000
rad36	2.52542e-15	1.000000	3.56495e-15	1.000000
rad15	1.60419e-15	1.000000	2.26452e-15	1.000000
rad33	1.06526e-15	1.000000	1.50376e-15	1.000000
rad26	8.51678e-16	1.000000	1.20225e-15	1.000000
rad20	6.76725e-16	1.000000	9.55283e-16	1.000000
rad10	3.06505e-16	1.000000	4.32672e-16	1.000000
rad25	2.68292e-16	1.000000	3.78730e-16	1.000000
rad12	2.31790e-16	1.000000	3.27203e-16	1.000000
rad18	2.02950e-16	1.000000	2.86491e-16	1.000000
rad24	1.45642e-16	1.000000	2.05592e-16	1.000000
rad2	7.02712e-17	1.000000	9.91966e-17	1.000000
rad3	5.33471e-17	1.000000	7.53066e-17	1.000000
rad4	3.33291e-17	1.000000	4.70484e-17	1.000000
rad8	2.01388e-17	1.000000	2.84285e-17	1.000000
rad1	1.96878e-17	1.000000	2.77920e-17	1.000000
rad14	1.40657e-17	1.000000	1.98556e-17	1.000000
rad47	4.71862e-18	1.000000	6.66093e-18	1.000000
rad5	2.19923e-18	1.000000	3.10451e-18	1.000000
rad27	7.37426e-19	1.000000	1.04097e-18	1.000000

0.100000000E-03 Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.28090e-11 (1.00)	2.31980e-11 (1.00)
Formation of rad11	6.43164e-12 (0.196)	2.60906e-12 (0.112)
Formation of rad6	9.73932e-12 (0.297)	3.95085e-12 (0.170)
H-abstraction	1.66381e-11 (0.507)	1.66381e-11 (0.717)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.717221	0.717221
Phenyl+Allene	0.292939	0.800058	0.00000	0.717221
PhCH2CCH+H	0.0943957	0.894453	0.133505	0.850725
PhCHCCH2+H	0.0481939	0.942647	0.0681609	0.918886

C2H2+PhCH2	0.0183497	0.960997	0.0259521	0.944838
PhCCH+CH3	0.0148752	0.975872	0.0210381	0.965876
Indene+H	0.00953292	0.985405	0.0134824	0.979359
PAH7+H	0.00553047	0.990936	0.00782174	0.987180
Ph+MeAc	0.00339482	0.994330	0.00480131	0.991982
PhcycC3H3_A+H	0.00149309	0.995824	0.00211168	0.994093
rad19syn	0.00122618	0.997050	0.00173419	0.995828
rad39	0.000692493	0.997742	0.000979395	0.996807
rad54	0.000558297	0.998301	0.000789599	0.997597
rad19anti	0.000392540	0.998693	0.000555170	0.998152
PAH9+H	0.000261381	0.998954	0.000369672	0.998522
PhCCCH3+H	0.000164587	0.999119	0.000232776	0.998754
rad38	0.000157797	0.999277	0.000223174	0.998977
PAH1+H	0.000129617	0.999406	0.000183319	0.999161
rad50	6.95411e-05	0.999476	9.83527e-05	0.999259
rad55	5.44673e-05	0.999530	7.70336e-05	0.999336
rad46	5.29591e-05	0.999583	7.49001e-05	0.999411
rad35	5.14100e-05	0.999635	7.27094e-05	0.999484
PAH10+CH3	5.04331e-05	0.999685	7.13277e-05	0.999555
rad70	4.95223e-05	0.999735	7.00399e-05	0.999625
PAH3+H	4.31617e-05	0.999778	6.10439e-05	0.999686
rad67	3.73882e-05	0.999815	5.28783e-05	0.999739
rad56	3.65112e-05	0.999852	5.16378e-05	0.999791
rad51	2.99347e-05	0.999882	4.23369e-05	0.999833
rad53	2.90213e-05	0.999911	4.10449e-05	0.999874
rad34	1.57208e-05	0.999926	2.22340e-05	0.999896
rad30	1.43454e-05	0.999941	2.02888e-05	0.999917
rad37	1.43019e-05	0.999955	2.02272e-05	0.999937
PAH8+H	8.32886e-06	0.999963	1.17795e-05	0.999949
rad52	7.47627e-06	0.999971	1.05737e-05	0.999959
rad62	5.70269e-06	0.999977	8.06532e-06	0.999967
rad59	3.60017e-06	0.999980	5.09173e-06	0.999972
rad64	3.22135e-06	0.999983	4.55597e-06	0.999977
rad71	3.21465e-06	0.999987	4.54650e-06	0.999981
rad60syn	2.29248e-06	0.999989	3.24226e-06	0.999985
rad68syn	1.99920e-06	0.999991	2.82747e-06	0.999988
rad73	1.73023e-06	0.999993	2.44707e-06	0.999990
rad60anti	1.62672e-06	0.999994	2.30068e-06	0.999992
rad68anti	1.28205e-06	0.999996	1.81322e-06	0.999994
rad40syn	8.70429e-07	0.999996	1.23105e-06	0.999995
rad65	7.65686e-07	0.999997	1.08291e-06	0.999996
rad42	7.25369e-07	0.999998	1.02590e-06	0.999997
rad58	6.16762e-07	0.999999	8.72293e-07	0.999998
rad40anti	5.85898e-07	0.999999	8.28640e-07	0.999999
rad43	2.45120e-07	0.999999	3.46673e-07	0.999999
rad72	2.19453e-07	1.000000	3.10373e-07	1.000000
rad61	1.61750e-07	1.000000	2.28765e-07	1.000000
rad41	3.09947e-08	1.000000	4.38359e-08	1.000000
rad6	3.28941e-12	1.000000	4.65223e-12	1.000000
rad7	6.60289e-14	1.000000	9.33851e-14	1.000000
rad11	4.80269e-14	1.000000	6.79245e-14	1.000000
rad23	2.59012e-14	1.000000	3.66321e-14	1.000000
rad28	1.18080e-14	1.000000	1.67000e-14	1.000000
rad9	1.07592e-14	1.000000	1.52168e-14	1.000000
rad13	7.91331e-15	1.000000	1.11918e-14	1.000000
rad45	5.45028e-15	1.000000	7.70834e-15	1.000000
rad22	2.12638e-15	1.000000	3.00736e-15	1.000000
rad21	1.39345e-15	1.000000	1.97077e-15	1.000000
rad36	1.00132e-15	1.000000	1.41618e-15	1.000000
rad15	6.95209e-16	1.000000	9.83241e-16	1.000000
rad33	5.56576e-16	1.000000	7.87170e-16	1.000000
rad26	3.01752e-16	1.000000	4.26771e-16	1.000000
rad20	2.88827e-16	1.000000	4.08489e-16	1.000000
rad25	1.37165e-16	1.000000	1.93993e-16	1.000000
rad12	1.32606e-16	1.000000	1.87546e-16	1.000000
rad10	1.11288e-16	1.000000	1.57395e-16	1.000000
rad24	7.99114e-17	1.000000	1.13019e-16	1.000000
rad18	7.64144e-17	1.000000	1.08073e-16	1.000000
rad3	2.12543e-17	1.000000	3.00600e-17	1.000000
rad2	1.89252e-17	1.000000	2.67661e-17	1.000000
rad8	1.74700e-17	1.000000	2.47079e-17	1.000000
rad4	1.29923e-17	1.000000	1.83751e-17	1.000000
rad14	7.76880e-18	1.000000	1.09875e-17	1.000000
rad47	6.74962e-18	1.000000	9.54604e-18	1.000000
rad1	5.18033e-18	1.000000	7.32659e-18	1.000000
rad5	1.44986e-18	1.000000	2.05054e-18	1.000000
rad27	3.67279e-19	1.000000	5.19443e-19	1.000000

0.100000000E-03 Pa, 2750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.60596e-11 (1.00)	3.26255e-11 (1.00)
Formation of rad11	8.62280e-12 (0.187)	3.34633e-12 (0.103)
Formation of rad6	1.33313e-11 (0.289)	5.17360e-12 (0.159)
H-abstraction	2.41055e-11 (0.523)	2.41055e-11 (0.739)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.738856	0.738856
Phenyl+Allene	0.291669	0.815024	0.00000	0.738856
PhCH2CCH+H	0.0913925	0.906416	0.129025	0.867881
PhCHCCH2+H	0.0440897	0.950506	0.0622446	0.930126
C2H2+PhCH2	0.0155259	0.966032	0.0219190	0.952045
PhCCH+CH3	0.0128664	0.978898	0.0181644	0.970209
Indene+H	0.00652675	0.985425	0.00921427	0.979424
PAH7+H	0.00506746	0.990493	0.00715408	0.986578
Ph+MeAc	0.00315047	0.993643	0.00444775	0.991026
PhcycC3H3_A+H	0.00197300	0.995616	0.00278544	0.993811
rad19syn	0.00143568	0.997052	0.00202686	0.995838
rad54	0.000652594	0.997704	0.000921315	0.996759
rad39	0.000584043	0.998288	0.000824532	0.997584
rad19anti	0.000328573	0.998617	0.000463869	0.998048
PAH9+H	0.000240059	0.998857	0.000338907	0.998386
PAH1+H	0.000158291	0.999015	0.000223471	0.998610
rad38	0.000149711	0.999165	0.000211358	0.998821
PhCCCH3+H	0.000136861	0.999302	0.000193216	0.999015
rad50	8.19601e-05	0.999384	0.000115709	0.999130
rad55	6.64334e-05	0.999450	9.37887e-05	0.999224
rad70	5.64830e-05	0.999507	7.97407e-05	0.999304
rad56	5.59920e-05	0.999563	7.90477e-05	0.999383
PAH10+CH3	5.49972e-05	0.999618	7.76435e-05	0.999460
rad46	5.29186e-05	0.999671	7.47090e-05	0.999535
PAH3+H	5.07704e-05	0.999721	7.16761e-05	0.999607
rad35	4.92117e-05	0.999771	6.94754e-05	0.999676
rad53	4.15958e-05	0.999812	5.87239e-05	0.999735
rad67	4.08893e-05	0.999853	5.77263e-05	0.999793
rad51	3.94231e-05	0.999893	5.56562e-05	0.999848
rad34	1.91382e-05	0.999912	2.70187e-05	0.999875
PAH8+H	1.42400e-05	0.999926	2.01036e-05	0.999896
rad30	1.30159e-05	0.999939	1.83754e-05	0.999914
rad37	1.25497e-05	0.999951	1.77173e-05	0.999932
rad52	9.23200e-06	0.999961	1.30335e-05	0.999945
rad62	6.96508e-06	0.999968	9.83308e-06	0.999954
rad71	6.06264e-06	0.999974	8.55906e-06	0.999963
rad64	4.12924e-06	0.999978	5.82954e-06	0.999969
rad59	4.06487e-06	0.999982	5.73866e-06	0.999975
rad73	2.98825e-06	0.999985	4.21872e-06	0.999979
rad68syn	2.93858e-06	0.999988	4.14861e-06	0.999983
rad60syn	2.38752e-06	0.999990	3.37063e-06	0.999986
rad68anti	1.88086e-06	0.999992	2.65533e-06	0.999989
rad60anti	1.71401e-06	0.999994	2.41979e-06	0.999991
rad40syn	1.39059e-06	0.999995	1.96319e-06	0.999993
rad42	1.00618e-06	0.999996	1.42050e-06	0.999995
rad65	9.77109e-07	0.999997	1.37945e-06	0.999996
rad40anti	9.60893e-07	0.999998	1.35656e-06	0.999998
rad58	8.26832e-07	0.999999	1.16730e-06	0.999999
rad72	4.93194e-07	1.000000	6.96274e-07	0.999999
rad43	2.90363e-07	1.000000	4.09925e-07	1.000000
rad61	2.19014e-07	1.000000	3.09197e-07	1.000000
rad41	4.25216e-08	1.000000	6.00307e-08	1.000000
rad6	1.11933e-12	1.000000	1.58025e-12	1.000000
rad7	2.96692e-14	1.000000	4.18861e-14	1.000000
rad11	2.05434e-14	1.000000	2.90026e-14	1.000000
rad23	8.85688e-15	1.000000	1.25039e-14	1.000000
rad9	4.51526e-15	1.000000	6.37452e-15	1.000000
rad28	4.01956e-15	1.000000	5.67470e-15	1.000000
rad13	3.84825e-15	1.000000	5.43286e-15	1.000000
rad45	2.34610e-15	1.000000	3.31214e-15	1.000000
rad22	7.93381e-16	1.000000	1.12007e-15	1.000000
rad21	7.20273e-16	1.000000	1.01686e-15	1.000000
rad36	4.37169e-16	1.000000	6.17182e-16	1.000000
rad15	3.20778e-16	1.000000	4.52865e-16	1.000000
rad33	3.15102e-16	1.000000	4.44850e-16	1.000000
rad20	1.44342e-16	1.000000	2.03778e-16	1.000000
rad26	1.23531e-16	1.000000	1.74397e-16	1.000000
rad12	7.84782e-17	1.000000	1.10793e-16	1.000000
rad25	7.63295e-17	1.000000	1.07760e-16	1.000000
rad10	4.80354e-17	1.000000	6.78153e-17	1.000000
rad24	4.65717e-17	1.000000	6.57484e-17	1.000000

rad18	3.38454e-17	1.00000	4.77820e-17	1.00000
rad8	1.52996e-17	1.00000	2.15996e-17	1.00000
rad3	9.87714e-18	1.00000	1.39443e-17	1.00000
rad47	8.69678e-18	1.00000	1.22779e-17	1.00000
rad2	6.70997e-18	1.00000	9.47296e-18	1.00000
rad4	5.93137e-18	1.00000	8.37373e-18	1.00000
rad14	4.74805e-18	1.00000	6.70317e-18	1.00000
rad1	1.74685e-18	1.00000	2.46616e-18	1.00000
rad5	1.01653e-18	1.00000	1.43511e-18	1.00000
rad27	2.15736e-19	1.00000	3.04569e-19	1.00000

0.100000000E-03 Pa, 3000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.43911e-11 (1.00)
Formation of rad11	1.12221e-11 (0.180)	4.21269e-12 (0.0949)
Formation of rad6	1.76534e-11 (0.283)	6.62699e-12 (0.149)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.756)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.755814	0.755814
Phenyl+Allene	0.288911	0.826362	0.00000	0.755814
PhCH2CCH+H	0.0883066	0.914669	0.124185	0.879999
PhCHCCH2+H	0.0408111	0.955480	0.0573925	0.937392
C2H2+PhCH2	0.0138651	0.969345	0.0194984	0.956890
PhCCH+CH3	0.0113582	0.980703	0.0159730	0.972863
PAH7+H	0.00465329	0.985356	0.00654386	0.979407
Indene+H	0.00463895	0.989995	0.00652370	0.985931
Ph+MeAc	0.00297587	0.992971	0.00418496	0.990116
PhcycC3H3_A+H	0.00245642	0.995427	0.00345445	0.993570
rad19syn	0.00161454	0.997042	0.00227052	0.995841
rad54	0.000727890	0.997770	0.00102362	0.996864
rad39	0.000500510	0.998270	0.000703861	0.997568
rad19anti	0.000275358	0.998546	0.000387232	0.997955
PAH9+H	0.000215435	0.998761	0.000302964	0.998258
PAH1+H	0.000185098	0.998946	0.000260302	0.998519
rad38	0.000138297	0.999085	0.000194486	0.998713
PhCCCH3+H	0.000118094	0.999203	0.000166074	0.998879
rad50	9.10199e-05	0.999294	0.000128001	0.999007
rad56	7.84307e-05	0.999372	0.000110297	0.999117
rad55	7.67854e-05	0.999449	0.000107983	0.999225
rad70	6.22156e-05	0.999511	8.74935e-05	0.999313
PAH3+H	5.79162e-05	0.999569	8.14472e-05	0.999394
PAH10+CH3	5.73435e-05	0.999626	8.06419e-05	0.999475
rad53	5.50942e-05	0.999682	7.74787e-05	0.999552
rad46	5.10964e-05	0.999733	7.18563e-05	0.999624
rad51	4.79927e-05	0.999781	6.74918e-05	0.999692
rad35	4.64038e-05	0.999827	6.52572e-05	0.999757
rad67	4.30004e-05	0.999870	6.04712e-05	0.999818
rad34	2.22803e-05	0.999892	3.13327e-05	0.999849
PAH8+H	2.20424e-05	0.999914	3.09982e-05	0.999880
rad30	1.19659e-05	0.999926	1.68276e-05	0.999897
rad37	1.08360e-05	0.999937	1.52386e-05	0.999912
rad52	1.06405e-05	0.999948	1.49636e-05	0.999927
rad71	9.97847e-06	0.999958	1.40327e-05	0.999941
rad62	8.52399e-06	0.999966	1.19872e-05	0.999953
rad64	4.99011e-06	0.999971	7.01754e-06	0.999960
rad73	4.56449e-06	0.999976	6.41901e-06	0.999966
rad59	4.47702e-06	0.999980	6.29599e-06	0.999973
rad68syn	4.00554e-06	0.999984	5.63295e-06	0.999978
rad68anti	2.55993e-06	0.999987	3.60001e-06	0.999982
rad60syn	2.46101e-06	0.999989	3.46090e-06	0.999985
rad40syn	2.03324e-06	0.999991	2.85932e-06	0.999988
rad60anti	1.78407e-06	0.999993	2.50894e-06	0.999991
rad40anti	1.43624e-06	0.999995	2.01978e-06	0.999993
rad42	1.37800e-06	0.999996	1.93787e-06	0.999995
rad65	1.15674e-06	0.999997	1.62672e-06	0.999996
rad58	1.05023e-06	0.999998	1.47693e-06	0.999998
rad72	9.39261e-07	0.999999	1.32087e-06	0.999999
rad43	3.36095e-07	0.999999	4.72649e-07	1.000000
rad61	2.73990e-07	1.000000	3.85311e-07	1.000000
rad41	5.56844e-08	1.000000	7.83087e-08	1.000000
rad6	4.44311e-13	1.000000	6.24830e-13	1.000000
rad7	1.48091e-14	1.000000	2.08258e-14	1.000000
rad11	9.86357e-15	1.000000	1.38711e-14	1.000000
rad23	3.41368e-15	1.000000	4.80065e-15	1.000000
rad13	2.05538e-15	1.000000	2.89048e-15	1.000000
rad9	2.03861e-15	1.000000	2.86689e-15	1.000000

rad28	1.59337e-15	1.000000	2.24075e-15	1.00000
rad45	1.09652e-15	1.000000	1.54203e-15	1.00000
rad21	4.05034e-16	1.000000	5.69598e-16	1.00000
rad22	3.36218e-16	1.000000	4.72822e-16	1.00000
rad36	2.06713e-16	1.000000	2.90698e-16	1.00000
rad33	1.89985e-16	1.000000	2.67174e-16	1.00000
rad15	1.57426e-16	1.000000	2.21387e-16	1.00000
rad20	8.22772e-17	1.000000	1.15706e-16	1.00000
rad26	5.54952e-17	1.000000	7.80425e-17	1.00000
rad12	4.82938e-17	1.000000	6.79149e-17	1.00000
rad25	4.56474e-17	1.000000	6.41938e-17	1.00000
rad24	2.85392e-17	1.000000	4.01344e-17	1.00000
rad10	2.31250e-17	1.000000	3.25204e-17	1.00000
rad18	1.70016e-17	1.000000	2.39092e-17	1.00000
rad8	1.34844e-17	1.000000	1.89630e-17	1.00000
rad47	1.03449e-17	1.000000	1.45480e-17	1.00000
rad3	5.15492e-18	1.000000	7.24934e-18	1.00000
rad14	3.16322e-18	1.000000	4.44841e-18	1.00000
rad4	3.07145e-18	1.000000	4.31936e-18	1.00000
rad2	2.90417e-18	1.000000	4.08413e-18	1.00000
rad5	7.39278e-19	1.000000	1.03964e-18	1.00000
rad1	7.11589e-19	1.000000	1.00070e-18	1.00000
rad27	1.40640e-19	1.000000	1.97781e-19	1.00000

0.100000000E-03 Pa, 3250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.22129e-11 (1.00)	5.87536e-11 (1.00)
Formation of rad11	1.42538e-11 (0.173)	5.21849e-12 (0.0888)
Formation of rad6	2.27549e-11 (0.277)	8.33083e-12 (0.142)
H-abstraction	4.52043e-11 (0.550)	4.52043e-11 (0.769)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.549844	0.549844	0.769388	0.769388
Phenyl+Allene	0.285349	0.835192	0.000000	0.769388
PhCH2CCH+H	0.0853725	0.920565	0.119460	0.888848
PhCHCCH2+H	0.0381839	0.958749	0.0534299	0.942278
C2H2+PhCH2	0.0128678	0.971617	0.0180057	0.960283
PhCCH+CH3	0.0101926	0.981809	0.0142623	0.974546
PAH7+H	0.00428274	0.986092	0.00599276	0.980539
Indene+H	0.00340695	0.989499	0.00476729	0.985306
PhcycC3H3_A+H	0.00292038	0.992419	0.00408643	0.989392
Ph+MeAc	0.00285191	0.995271	0.00399061	0.993383
rad19syn	0.00176005	0.997031	0.00246280	0.995846
rad54	0.000783510	0.997815	0.00109635	0.996942
rad39	0.000435199	0.998250	0.000608967	0.997551
rad19anti	0.000232598	0.998483	0.000325470	0.997876
PAH1+H	0.000210285	0.998693	0.000294248	0.998171
PAH9+H	0.000189946	0.998883	0.000265788	0.998436
rad38	0.000125074	0.999008	0.000175014	0.998611
PhCCCH3+H	0.000104499	0.999112	0.000146224	0.998758
rad56	0.000102496	0.999215	0.000143420	0.998901
rad50	9.64743e-05	0.999311	0.000134995	0.999036
rad55	8.51952e-05	0.999397	0.000119212	0.999155
rad53	6.86880e-05	0.999465	9.61137e-05	0.999251
rad70	6.67834e-05	0.999532	9.34486e-05	0.999345
PAH3+H	6.43467e-05	0.999596	9.00394e-05	0.999435
PAH10+CH3	5.80427e-05	0.999654	8.12183e-05	0.999516
rad51	5.49240e-05	0.999709	7.68541e-05	0.999593
rad46	4.80263e-05	0.999757	6.72021e-05	0.999660
rad67	4.40669e-05	0.999802	6.16619e-05	0.999722
rad35	4.33473e-05	0.999845	6.06552e-05	0.999783
PAH8+H	3.16111e-05	0.999876	4.42329e-05	0.999827
rad34	2.50786e-05	0.999902	3.50921e-05	0.999862
rad71	1.47743e-05	0.999916	2.06734e-05	0.999883
rad52	1.16170e-05	0.999928	1.62555e-05	0.999899
rad30	1.10774e-05	0.999939	1.55003e-05	0.999914
rad62	1.06705e-05	0.999950	1.49310e-05	0.999929
rad37	9.29424e-06	0.999959	1.30053e-05	0.999942
rad73	6.33743e-06	0.999965	8.86788e-06	0.999951
rad64	5.77649e-06	0.999971	8.08292e-06	0.999959
rad68syn	5.15348e-06	0.999976	7.21118e-06	0.999966
rad59	4.82486e-06	0.999981	6.75136e-06	0.999973
rad68anti	3.28964e-06	0.999984	4.60314e-06	0.999978
rad40syn	2.77792e-06	0.999987	3.88709e-06	0.999982
rad60syn	2.50929e-06	0.999990	3.51119e-06	0.999985
rad40anti	1.99952e-06	0.999992	2.79788e-06	0.999988
rad42	1.90464e-06	0.999994	2.66512e-06	0.999991

rad60anti	1.83422e-06	0.999995	2.56658e-06	0.999993
rad72	1.57365e-06	0.999997	2.20197e-06	0.999995
rad65	1.29208e-06	0.999998	1.80798e-06	0.999997
rad58	1.27682e-06	1.000000	1.78663e-06	0.999999
rad43	3.85029e-07	1.000000	5.38764e-07	1.000000
rad61	3.23853e-07	1.000000	4.53160e-07	1.000000
rad41	7.10639e-08	1.000000	9.94383e-08	1.000000
rad6	1.98841e-13	1.000000	2.78234e-13	1.000000
rad7	8.03394e-15	1.000000	1.12417e-14	1.000000
rad11	5.21699e-15	1.000000	7.30001e-15	1.000000
rad23	1.44258e-15	1.000000	2.01858e-15	1.000000
rad13	1.18526e-15	1.000000	1.65851e-15	1.000000
rad9	9.88097e-16	1.000000	1.38263e-15	1.000000
rad28	7.08258e-16	1.000000	9.91052e-16	1.000000
rad45	5.48484e-16	1.000000	7.67481e-16	1.000000
rad21	2.44315e-16	1.000000	3.41865e-16	1.000000
rad22	1.58159e-16	1.000000	2.21308e-16	1.000000
rad33	1.20474e-16	1.000000	1.68578e-16	1.000000
rad36	1.04364e-16	1.000000	1.46035e-16	1.000000
rad15	8.20468e-17	1.000000	1.14807e-16	1.000000
rad20	5.20430e-17	1.000000	7.28226e-17	1.000000
rad12	3.09374e-17	1.000000	4.32901e-17	1.000000
rad25	2.89947e-17	1.000000	4.05717e-17	1.000000
rad26	2.68559e-17	1.000000	3.75790e-17	1.000000
rad24	1.82403e-17	1.000000	2.55233e-17	1.000000
rad10	1.20434e-17	1.000000	1.68521e-17	1.000000
rad8	1.19193e-17	1.000000	1.66784e-17	1.000000
rad47	1.15640e-17	1.000000	1.61813e-17	1.000000
rad18	9.40390e-18	1.000000	1.31587e-17	1.000000
rad3	2.93957e-18	1.000000	4.11327e-18	1.000000
rad14	2.29549e-18	1.000000	3.21204e-18	1.000000
rad4	1.75941e-18	1.000000	2.46190e-18	1.000000
rad2	1.44424e-18	1.000000	2.02090e-18	1.000000
rad5	5.55362e-19	1.000000	7.77109e-19	1.000000
rad1	3.34922e-19	1.000000	4.68648e-19	1.000000
rad27	9.84685e-20	1.000000	1.37785e-19	1.000000

0.100000000E-03 Pa, 3500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.05713e-10 (1.00)	7.59650e-11 (1.00)
Formation of rad11	1.77412e-11 (0.168)	6.37264e-12 (0.0839)
Formation of rad6	2.86822e-11 (0.271)	1.03027e-11 (0.136)
H-abstraction	5.92897e-11 (0.561)	5.92897e-11 (0.780)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.780487	0.780487
Phenyl+Allene	0.281404	0.842259	0.000000	0.780487
PhCH2CCH+H	0.0826656	0.924925	0.115037	0.895524
PhCHCCH2+H	0.0360585	0.960983	0.0501791	0.945703
C2H2+PhCH2	0.0122593	0.973242	0.0170600	0.962764
PhCCH+CH3	0.00927084	0.982513	0.0129013	0.975665
PAH7+H	0.00395025	0.986463	0.00549717	0.981162
PhcycC3H3_A+H	0.00334801	0.989811	0.00465910	0.985821
Ph+MeAc	0.00276398	0.992575	0.00384635	0.989667
Indene+H	0.00257590	0.995151	0.00358462	0.993252
rad19syn	0.00187235	0.997024	0.00260557	0.995858
rad54	0.000820548	0.997844	0.00114187	0.996999
rad39	0.000383055	0.998227	0.000533059	0.997533
PAH1+H	0.000234590	0.998462	0.000326455	0.997859
rad19anti	0.000198628	0.998661	0.000276411	0.998135
PAH9+H	0.000165224	0.998826	0.000229927	0.998365
rad56	0.000126873	0.998953	0.000176556	0.998542
rad38	0.000111229	0.999064	0.000154787	0.998697
rad50	9.85613e-05	0.999162	0.000137158	0.998834
PhCCCH3+H	9.42424e-05	0.999257	0.000131148	0.998965
rad55	9.15803e-05	0.999348	0.000127443	0.999092
rad53	8.16793e-05	0.999430	0.000113665	0.999206
rad70	7.02694e-05	0.999500	9.77871e-05	0.999304
PAH3+H	6.99220e-05	0.999570	9.73035e-05	0.999401
rad51	5.98507e-05	0.999630	8.32882e-05	0.999484
PAH10+CH3	5.76128e-05	0.999688	8.01742e-05	0.999565
rad67	4.43734e-05	0.999732	6.17501e-05	0.999626
rad46	4.41956e-05	0.999776	6.15029e-05	0.999688
PAH8+H	4.26935e-05	0.999819	5.94123e-05	0.999747
rad35	4.02805e-05	0.999859	5.60544e-05	0.999803
rad34	2.74951e-05	0.999887	3.82622e-05	0.999842
rad71	2.01281e-05	0.999907	2.80103e-05	0.999870

rad62	1.37116e-05	0.999920	1.90811e-05	0.999889
rad52	1.21501e-05	0.999933	1.69080e-05	0.999906
rad30	1.02915e-05	0.999943	1.43216e-05	0.999920
rad73	8.16310e-06	0.999951	1.13598e-05	0.999931
rad37	7.96636e-06	0.999959	1.10860e-05	0.999942
rad64	6.47621e-06	0.999966	9.01228e-06	0.999951
rad68syn	6.33612e-06	0.999972	8.81737e-06	0.999960
rad59	5.10458e-06	0.999977	7.10355e-06	0.999967
rad68anti	4.04059e-06	0.999981	5.62289e-06	0.999973
rad40syn	3.59895e-06	0.999985	5.00830e-06	0.999978
rad42	2.66321e-06	0.999987	3.70612e-06	0.999982
rad40anti	2.63316e-06	0.999990	3.66431e-06	0.999985
rad60syn	2.53258e-06	0.999992	3.52435e-06	0.999989
rad72	2.38441e-06	0.999995	3.31814e-06	0.999992
rad60anti	1.86455e-06	0.999997	2.59471e-06	0.999995
rad58	1.49815e-06	0.999998	2.08483e-06	0.999997
rad65	1.37925e-06	1.000000	1.91936e-06	0.999999
rad43	4.42452e-07	1.000000	6.15716e-07	0.999999
rad61	3.67258e-07	1.000000	5.11077e-07	1.000000
rad41	8.98821e-08	1.000000	1.25080e-07	1.000000
rad6	9.81485e-14	1.000000	1.36584e-13	1.000000
rad7	4.66113e-15	1.000000	6.48645e-15	1.000000
rad11	2.99104e-15	1.000000	4.16234e-15	1.000000
rad13	7.28309e-16	1.000000	1.01352e-15	1.000000
rad23	6.57541e-16	1.000000	9.15037e-16	1.000000
rad9	5.12114e-16	1.000000	7.12655e-16	1.000000
rad28	3.45506e-16	1.000000	4.80808e-16	1.000000
rad45	2.90191e-16	1.000000	4.03831e-16	1.000000
rad21	1.56206e-16	1.000000	2.17377e-16	1.000000
rad22	8.12226e-17	1.000000	1.13029e-16	1.000000
rad33	7.96109e-17	1.000000	1.10787e-16	1.000000
rad36	5.56129e-17	1.000000	7.73910e-17	1.000000
rad15	4.52632e-17	1.000000	6.29881e-17	1.000000
rad20	3.56498e-17	1.000000	4.96104e-17	1.000000
rad12	2.06000e-17	1.000000	2.86671e-17	1.000000
rad25	1.93599e-17	1.000000	2.69413e-17	1.000000
rad26	1.38680e-17	1.000000	1.92988e-17	1.000000
rad47	1.23125e-17	1.000000	1.71341e-17	1.000000
rad24	1.20836e-17	1.000000	1.68155e-17	1.000000
rad8	1.05361e-17	1.000000	1.46621e-17	1.000000
rad10	6.67479e-18	1.000000	9.28862e-18	1.000000
rad18	5.60033e-18	1.000000	7.79343e-18	1.000000
rad14	1.81848e-18	1.000000	2.53061e-18	1.000000
rad3	1.79665e-18	1.000000	2.50023e-18	1.000000
rad4	1.09305e-18	1.000000	1.52108e-18	1.000000
rad2	7.92007e-19	1.000000	1.10216e-18	1.000000
rad5	4.30383e-19	1.000000	5.98921e-19	1.000000
rad1	1.76583e-19	1.000000	2.45732e-19	1.000000
rad27	7.31080e-20	1.000000	1.01737e-19	1.000000

0.100000000E-03 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.33217e-10 (1.00)	9.62711e-11 (1.00)
Formation of rad11	2.17064e-11 (0.163)	7.68279e-12 (0.0798)
Formation of rad6	3.54800e-11 (0.266)	1.25578e-11 (0.130)
H-abstraction	7.60305e-11 (0.571)	7.60305e-11 (0.790)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789754	0.789754
Phenyl+Allene	0.277336	0.848063	0.00000	0.789754
PhCH2CCH+H	0.0801946	0.928257	0.110971	0.900725
PhCHCCH2+H	0.0343186	0.962576	0.0474891	0.948214
C2H2+PhCH2	0.0118838	0.974460	0.0164445	0.964658
PhCCH+CH3	0.00852836	0.982988	0.0118013	0.976459
PhcycC3H3_A+H	0.00372851	0.986717	0.00515939	0.981619
PAH7+H	0.00365085	0.990368	0.00505194	0.986671
Ph+MeAc	0.00270113	0.993069	0.00373773	0.990408
Indene+H	0.00199900	0.995068	0.00276616	0.993175
rad19syn	0.00195356	0.997021	0.00270328	0.995878
rad54	0.000841040	0.997862	0.00116381	0.997042
rad39	0.000340475	0.998203	0.000471138	0.997513
PAH1+H	0.000258935	0.998462	0.000358305	0.997871
rad19anti	0.000171610	0.998633	0.000237469	0.998109
rad56	0.000150421	0.998784	0.000208148	0.998317
PAH9+H	0.000142296	0.998926	0.000196904	0.998514
rad50	9.78214e-05	0.999024	0.000135362	0.998649
rad38	9.76287e-05	0.999121	0.000135095	0.998784

rad55	9.60227e-05	0.999217	0.000132873	0.998917
rad53	9.35446e-05	0.999311	0.000129444	0.999046
PhCCCH3+H	8.63448e-05	0.999397	0.000119481	0.999166
PAH3+H	7.46029e-05	0.999472	0.000103233	0.999269
rad70	7.27716e-05	0.999545	0.000100699	0.999370
rad51	6.27266e-05	0.999607	8.67994e-05	0.999457
PAH10+CH3	5.64592e-05	0.999664	7.81267e-05	0.999535
PAH8+H	5.49581e-05	0.999719	7.60493e-05	0.999611
rad67	4.41361e-05	0.999763	6.10741e-05	0.999672
rad46	4.00102e-05	0.999803	5.53649e-05	0.999727
rad35	3.73501e-05	0.999840	5.16839e-05	0.999779
rad34	2.95155e-05	0.999870	4.08426e-05	0.999820
rad71	2.56704e-05	0.999896	3.55219e-05	0.999855
rad62	1.78765e-05	0.999913	2.47369e-05	0.999880
rad52	1.22817e-05	0.999926	1.69950e-05	0.999897
rad73	9.90830e-06	0.999936	1.37108e-05	0.999911
rad30	9.58077e-06	0.999945	1.32576e-05	0.999924
rad68syn	7.51159e-06	0.999953	1.03943e-05	0.999934
rad64	7.08717e-06	0.999960	9.80700e-06	0.999944
rad37	6.84827e-06	0.999967	9.47639e-06	0.999954
rad59	5.31873e-06	0.999972	7.35989e-06	0.999961
rad68anti	4.78626e-06	0.999977	6.62308e-06	0.999968
rad40syn	4.46912e-06	0.999981	6.18422e-06	0.999974
rad42	3.72271e-06	0.999985	5.15138e-06	0.999979
rad72	3.33614e-06	0.999988	4.61643e-06	0.999984
rad40anti	3.31727e-06	0.999992	4.59032e-06	0.999988
rad60syn	2.53369e-06	0.999994	3.50604e-06	0.999992
rad60anti	1.87710e-06	0.999996	2.59748e-06	0.999994
rad58	1.70809e-06	0.999998	2.36361e-06	0.999997
rad65	1.42131e-06	0.999999	1.96676e-06	0.999999
rad43	5.13732e-07	1.000000	7.10883e-07	0.999999
rad61	4.03889e-07	1.000000	5.58888e-07	1.000000
rad41	1.13553e-07	1.000000	1.57130e-07	1.000000
rad6	5.25662e-14	1.000000	7.27394e-14	1.000000
rad7	2.85692e-15	1.000000	3.95332e-15	1.000000
rad11	1.83384e-15	1.000000	2.53761e-15	1.000000
rad13	4.71990e-16	1.000000	6.53121e-16	1.000000
rad23	3.19446e-16	1.000000	4.42040e-16	1.000000
rad9	2.82337e-16	1.000000	3.90689e-16	1.000000
rad28	1.82177e-16	1.000000	2.52091e-16	1.000000
rad45	1.60906e-16	1.000000	2.22657e-16	1.000000
rad21	1.04834e-16	1.000000	1.45067e-16	1.000000
rad33	5.44417e-17	1.000000	7.53345e-17	1.000000
rad22	4.49260e-17	1.000000	6.21670e-17	1.000000
rad36	3.09953e-17	1.000000	4.28904e-17	1.000000
rad15	2.63118e-17	1.000000	3.64095e-17	1.000000
rad20	2.59386e-17	1.000000	3.58930e-17	1.000000
rad12	1.42144e-17	1.000000	1.96695e-17	1.000000
rad25	1.34705e-17	1.000000	1.86401e-17	1.000000
rad47	1.26179e-17	1.000000	1.74602e-17	1.000000
rad8	9.29496e-18	1.000000	1.28621e-17	1.000000
rad24	8.25899e-18	1.000000	1.14285e-17	1.000000
rad26	7.58881e-18	1.000000	1.05012e-17	1.000000
rad10	3.89749e-18	1.000000	5.39323e-18	1.000000
rad18	3.53333e-18	1.000000	4.88931e-18	1.000000
rad14	1.56337e-18	1.000000	2.16335e-18	1.000000
rad3	1.16127e-18	1.000000	1.60692e-18	1.000000
rad4	7.24999e-19	1.000000	1.00323e-18	1.000000
rad2	4.66856e-19	1.000000	6.46018e-19	1.000000
rad5	3.43289e-19	1.000000	4.75032e-19	1.000000
rad1	1.02013e-19	1.000000	1.41163e-19	1.000000
rad27	5.73766e-20	1.000000	7.93956e-20	1.000000

0.100000000E-03 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.65008e-10 (1.00)	1.19912e-10 (1.00)
Formation of rad11	2.61707e-11 (0.159)	9.15556e-12 (0.0764)
Formation of rad6	4.31906e-11 (0.262)	1.51098e-11 (0.126)
H-abstraction	9.56470e-11 (0.580)	9.56470e-11 (0.798)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.579650	0.579650	0.797641	0.797641
Phenyl+Allene	0.273295	0.852945	0.000000	0.797641
PhCH2CCH+H	0.0779435	0.930888	0.107256	0.904897
PhCHCCH2+H	0.0328766	0.963765	0.0452408	0.950138
C2H2+PhCH2	0.0116508	0.975415	0.0160323	0.966170
PhCCH+CH3	0.00792125	0.983337	0.0109003	0.977070

PhcycC3H3_A+H	0.00405636	0.987393	0.00558187	0.982652
PAH7+H	0.00338058	0.990774	0.00465193	0.987304
Ph+MeAc	0.00265534	0.993429	0.00365394	0.990958
rad19syn	0.00200699	0.995436	0.00276178	0.993720
Indene+H	0.00158840	0.997024	0.00218576	0.995906
rad54	0.000847468	0.997872	0.00116618	0.997072
rad39	0.000304994	0.998177	0.000419695	0.997491
PAH1+H	0.000284127	0.998461	0.000390980	0.997882
rad56	0.000172242	0.998633	0.000237017	0.998119
rad19anti	0.000149971	0.998783	0.000206372	0.998326
PAH9+H	0.000121736	0.998905	0.000167518	0.998493
rad53	0.000103935	0.999009	0.000143023	0.998636
rad55	9.87033e-05	0.999108	0.000135823	0.998772
rad50	9.49261e-05	0.999203	0.000130625	0.998903
rad38	8.48536e-05	0.999287	0.000116765	0.999020
PhCCCH3+H	8.02193e-05	0.999368	0.000110388	0.999130
PAH3+H	7.84218e-05	0.999446	0.000107914	0.999238
rad70	7.43978e-05	0.999520	0.000102377	0.999340
PAH8+H	6.80299e-05	0.999588	9.36140e-05	0.999434
rad51	6.37407e-05	0.999652	8.77122e-05	0.999522
PAH10+CH3	5.48776e-05	0.999707	7.55158e-05	0.999597
rad67	4.35168e-05	0.999751	5.98821e-05	0.999657
rad46	3.57792e-05	0.999786	4.92350e-05	0.999706
rad35	3.46400e-05	0.999821	4.76673e-05	0.999754
rad34	3.11445e-05	0.999852	4.28572e-05	0.999797
rad71	3.10563e-05	0.999883	4.27358e-05	0.999839
rad62	2.32398e-05	0.999906	3.19798e-05	0.999871
rad52	1.20851e-05	0.999919	1.66300e-05	0.999888
rad73	1.14710e-05	0.999930	1.57849e-05	0.999904
rad30	8.93299e-06	0.999939	1.22925e-05	0.999916
rad68syn	8.64434e-06	0.999948	1.18952e-05	0.999928
rad64	7.61305e-06	0.999955	1.04761e-05	0.999939
rad37	5.91727e-06	0.999961	8.14263e-06	0.999947
rad68anti	5.50424e-06	0.999967	7.57424e-06	0.999954
rad59	5.47385e-06	0.999972	7.53243e-06	0.999962
rad40syn	5.36170e-06	0.999977	7.37810e-06	0.999969
rad42	5.12142e-06	0.999983	7.04750e-06	0.999976
rad72	4.37871e-06	0.999987	6.02543e-06	0.999982
rad40anti	4.03125e-06	0.999991	5.54731e-06	0.999988
rad60syn	2.51669e-06	0.999993	3.46315e-06	0.999991
rad58	1.90267e-06	0.999995	2.61822e-06	0.999994
rad60anti	1.87487e-06	0.999997	2.57996e-06	0.999996
rad65	1.42564e-06	0.999999	1.96179e-06	0.999998
rad43	6.01849e-07	0.999999	8.28191e-07	0.999999
rad61	4.34037e-07	1.000000	5.97267e-07	1.000000
rad41	1.43043e-07	1.000000	1.96838e-07	1.000000
rad6	3.01578e-14	1.000000	4.14994e-14	1.000000
rad7	1.83275e-15	1.000000	2.52200e-15	1.000000
rad11	1.18914e-15	1.000000	1.63634e-15	1.000000
rad13	3.19990e-16	1.000000	4.40331e-16	1.000000
rad9	1.64627e-16	1.000000	2.26539e-16	1.000000
rad23	1.63884e-16	1.000000	2.25517e-16	1.000000
rad28	1.02608e-16	1.000000	1.41196e-16	1.000000
rad45	9.28487e-17	1.000000	1.27767e-16	1.000000
rad21	7.32814e-17	1.000000	1.00841e-16	1.000000
rad33	3.83235e-17	1.000000	5.27360e-17	1.000000
rad22	2.64691e-17	1.000000	3.64234e-17	1.000000
rad20	1.97582e-17	1.000000	2.71888e-17	1.000000
rad36	1.79434e-17	1.000000	2.46915e-17	1.000000
rad15	1.60364e-17	1.000000	2.20673e-17	1.000000
rad47	1.25502e-17	1.000000	1.72700e-17	1.000000
rad12	1.01281e-17	1.000000	1.39370e-17	1.000000
rad25	9.69849e-18	1.000000	1.33459e-17	1.000000
rad8	8.17489e-18	1.000000	1.12493e-17	1.000000
rad24	5.80458e-18	1.000000	7.98754e-18	1.000000
rad26	4.37484e-18	1.000000	6.02010e-18	1.000000
rad10	2.38168e-18	1.000000	3.27737e-18	1.000000
rad18	2.33495e-18	1.000000	3.21308e-18	1.000000
rad14	1.43353e-18	1.000000	1.97264e-18	1.000000
rad3	7.86219e-19	1.000000	1.08190e-18	1.000000
rad4	5.07077e-19	1.000000	6.97779e-19	1.000000
rad2	2.91268e-19	1.000000	4.00807e-19	1.000000
rad5	2.80917e-19	1.000000	3.86563e-19	1.000000
rad1	6.34973e-20	1.000000	8.73769e-20	1.000000
rad27	4.74794e-20	1.000000	6.53351e-20	1.000000

0.100000000E-04 Pa, 20.0000000 K

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Rate constant | True (fraction) | Effective (fraction)

Total	1.56740e-51 (1.00)	1.56740e-51 (1.00)
Formation of rad11	1.56740e-51 (1.000)	1.56740e-51 (1.000)
Formation of rad6	3.73945e-60 (2.39e-09)	3.73945e-60 (2.39e-09)
H-abstraction	1.53631e-76 (9.80e-26)	1.53631e-76 (9.80e-26)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.986742	0.986742	0.986742	0.986742
C2H2+PhCH2	0.00795701	0.994699	0.00795701	0.994699
PhCCH+CH3	0.00207345	0.996772	0.00207345	0.996772
PhCHCCH2+H	0.00131764	0.998090	0.00131764	0.998090
rad6	0.00110197	0.999192	0.00110197	0.999192
PhCCCH3+H	0.000784566	0.999977	0.000784566	0.999977
Ph+MeAc	9.12304e-06	0.999986	9.12304e-06	0.999986
rad8	6.41516e-06	0.999992	6.41516e-06	0.999992
rad9	2.89000e-06	0.999995	2.89000e-06	0.999995
PAH7+H	1.61855e-06	0.999997	1.61855e-06	0.999997
rad28	1.38063e-06	0.999998	1.38063e-06	0.999998
rad2	4.75896e-07	0.999999	4.75896e-07	0.999999
rad30	4.19797e-07	0.999999	4.19797e-07	0.999999
rad12	1.94560e-07	0.999999	1.94560e-07	0.999999
rad39	1.53078e-07	0.999999	1.53078e-07	0.999999
rad26	1.36166e-07	0.999999	1.36166e-07	0.999999
PAH9+H	8.47907e-08	1.000000	8.47907e-08	1.000000
rad7	7.98104e-08	1.000000	7.98104e-08	1.000000
rad15	7.47342e-08	1.000000	7.47342e-08	1.000000
rad35	4.47621e-08	1.000000	4.47621e-08	1.000000
rad1	3.00777e-08	1.000000	3.00777e-08	1.000000
rad10	2.39488e-08	1.000000	2.39488e-08	1.000000
rad38	2.17325e-08	1.000000	2.17325e-08	1.000000
rad11	1.95699e-08	1.000000	1.95699e-08	1.000000
Phenyl+Allene	1.61488e-08	1.000000	0.000000	1.000000
rad3	2.98835e-09	1.000000	2.98835e-09	1.000000
rad4	1.51077e-09	1.000000	1.51077e-09	1.000000
rad13	4.41799e-10	1.000000	4.41799e-10	1.000000
rad46	1.39021e-10	1.000000	1.39021e-10	1.000000
rad60syn	3.08783e-12	1.000000	3.08783e-12	1.000000
rad33	8.34375e-13	1.000000	8.34375e-13	1.000000
rad14	5.54133e-13	1.000000	5.54133e-13	1.000000
rad25	3.60177e-13	1.000000	3.60177e-13	1.000000
rad27	3.25009e-13	1.000000	3.25009e-13	1.000000
rad60anti	3.95140e-15	1.000000	3.95140e-15	1.000000
PhCH2CCH+H	9.98689e-17	1.000000	9.98689e-17	1.000000
rad37	9.52029e-18	1.000000	9.52029e-18	1.000000
rad31	8.73324e-18	1.000000	8.73324e-18	1.000000
rad23	5.29486e-18	1.000000	5.29486e-18	1.000000
rad20	1.97196e-18	1.000000	1.97196e-18	1.000000
rad21	1.45000e-18	1.000000	1.45000e-18	1.000000
rad45	3.72023e-20	1.000000	3.72023e-20	1.000000
rad22	1.71457e-20	1.000000	1.71457e-20	1.000000
rad18	8.19620e-21	1.000000	8.19620e-21	1.000000
rad5	6.26929e-21	1.000000	6.26929e-21	1.000000
rad36	2.31741e-21	1.000000	2.31741e-21	1.000000
PAH3+H	1.17711e-25	1.000000	1.17711e-25	1.000000
Benzene+2-propynyl	9.80165e-26	1.000000	9.80165e-26	1.000000
rad59	6.29847e-26	1.000000	6.29847e-26	1.000000
rad24	4.54449e-26	1.000000	4.54449e-26	1.000000
rad50	2.47223e-26	1.000000	2.47223e-26	1.000000
rad19syn	1.04166e-34	1.000000	1.04166e-34	1.000000
rad52	1.24896e-38	1.000000	1.24896e-38	1.000000
rad54	1.22304e-39	1.000000	1.22304e-39	1.000000
PAH10+CH3	7.99445e-40	1.000000	7.99445e-40	1.000000
rad43	1.84063e-40	1.000000	1.84063e-40	1.000000
rad62	5.51967e-43	1.000000	5.51967e-43	1.000000
rad51	6.15944e-46	1.000000	6.15944e-46	1.000000
rad70	6.67823e-49	1.000000	6.67823e-49	1.000000
PhcycC3H3_A+H	2.83000e-49	1.000000	2.83000e-49	1.000000
rad55	1.52375e-49	1.000000	1.52375e-49	1.000000
rad65	4.16193e-51	1.000000	4.16193e-51	1.000000
rad58	9.50853e-53	1.000000	9.50853e-53	1.000000
PAH1+H	1.28627e-54	1.000000	1.28627e-54	1.000000
rad34	8.47798e-57	1.000000	8.47798e-57	1.000000
rad42	6.05785e-61	1.000000	6.05785e-61	1.000000
rad41	7.60802e-62	1.000000	7.60802e-62	1.000000
rad47	2.33782e-64	1.000000	2.33782e-64	1.000000

0.100000000E-04 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	5.03204e-39 (1.00)	5.03204e-39 (1.00)
Formation of rad11	5.03203e-39 (1.000)	5.03203e-39 (1.000)
Formation of rad6	9.92181e-45 (1.97e-06)	9.92181e-45 (1.97e-06)
H-abstraction	3.33191e-55 (6.62e-17)	3.33191e-55 (6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987365	0.987365	0.987365	0.987365
C2H2+PhCH2	0.00814272	0.995508	0.00814272	0.995508
PhCCH+CH3	0.00215923	0.997667	0.00215923	0.997667
PhCHCCH2+H	0.00136610	0.999033	0.00136610	0.999033
PhCCCH3+H	0.000816179	0.999849	0.000816179	0.999849
rad6	0.000127518	0.999977	0.000127518	0.999977
Ph+MeAc	9.97593e-06	0.999987	9.97593e-06	0.999987
rad8	6.73164e-06	0.999993	6.73164e-06	0.999993
rad9	3.05982e-06	0.999997	3.05982e-06	0.999997
PAH7+H	1.73308e-06	0.999998	1.73308e-06	0.999998
rad30	4.32622e-07	0.999999	4.32622e-07	0.999999
rad12	2.08147e-07	0.999999	2.08147e-07	0.999999
rad28	1.98804e-07	0.999999	1.98804e-07	0.999999
rad39	1.67124e-07	0.999999	1.67124e-07	0.999999
PAH9+H	8.75826e-08	0.999999	8.75826e-08	0.999999
rad15	7.74011e-08	0.999999	7.74011e-08	0.999999
rad2	5.21188e-08	0.999999	5.21188e-08	0.999999
rad35	4.61137e-08	1.000000	4.61137e-08	1.000000
rad38	2.25005e-08	1.000000	2.25005e-08	1.000000
Phenyl+Allene	2.14368e-08	1.000000	0.000000	1.000000
rad26	1.81752e-08	1.000000	1.81752e-08	1.000000
rad7	9.21579e-09	1.000000	9.21579e-09	1.000000
rad1	3.29595e-09	1.000000	3.29595e-09	1.000000
rad10	2.63468e-09	1.000000	2.63468e-09	1.000000
rad11	2.25630e-09	1.000000	2.25630e-09	1.000000
rad3	3.29601e-10	1.000000	3.29601e-10	1.000000
rad4	1.66655e-10	1.000000	1.66655e-10	1.000000
rad46	1.46102e-10	1.000000	1.46102e-10	1.000000
rad13	5.11472e-11	1.000000	5.11472e-11	1.000000
rad60syn	3.29524e-12	1.000000	3.29524e-12	1.000000
rad33	9.66156e-14	1.000000	9.66156e-14	1.000000
rad14	8.48599e-14	1.000000	8.48599e-14	1.000000
rad25	5.17960e-14	1.000000	5.17960e-14	1.000000
rad27	3.92575e-14	1.000000	3.92575e-14	1.000000
rad60anti	3.18244e-15	1.000000	3.18244e-15	1.000000
Benzene+2-propynyl	6.62139e-17	1.000000	6.62139e-17	1.000000
PhCH2CCH+H	5.64314e-17	1.000000	5.64314e-17	1.000000
rad37	5.26209e-18	1.000000	5.26209e-18	1.000000
rad31	9.71927e-19	1.000000	9.71927e-19	1.000000
rad20	2.31100e-19	1.000000	2.31100e-19	1.000000
rad21	1.70006e-19	1.000000	1.70006e-19	1.000000
rad23	1.53553e-19	1.000000	1.53553e-19	1.000000
rad5	3.43087e-21	1.000000	3.43087e-21	1.000000
rad45	1.03266e-21	1.000000	1.03266e-21	1.000000
rad18	9.53541e-22	1.000000	9.53541e-22	1.000000
rad22	9.51212e-22	1.000000	9.51212e-22	1.000000
rad36	6.43067e-23	1.000000	6.43067e-23	1.000000
PAH3+H	6.29738e-26	1.000000	6.29738e-26	1.000000
rad59	3.37035e-26	1.000000	3.37035e-26	1.000000
rad50	1.33544e-26	1.000000	1.33544e-26	1.000000
rad24	5.35742e-27	1.000000	5.35742e-27	1.000000
rad19syn	5.46631e-35	1.000000	5.46631e-35	1.000000
rad52	6.54812e-39	1.000000	6.54812e-39	1.000000
rad54	6.46829e-40	1.000000	6.46829e-40	1.000000
PAH10+CH3	4.23762e-40	1.000000	4.23762e-40	1.000000
rad43	9.76500e-41	1.000000	9.76500e-41	1.000000
rad62	2.94223e-43	1.000000	2.94223e-43	1.000000
rad51	3.27702e-46	1.000000	3.27702e-46	1.000000
rad70	3.61699e-49	1.000000	3.61699e-49	1.000000
PhcycC3H3_A+H	1.53553e-49	1.000000	1.53553e-49	1.000000
rad55	8.26624e-50	1.000000	8.26624e-50	1.000000
rad65	2.24107e-51	1.000000	2.24107e-51	1.000000
rad58	5.16740e-53	1.000000	5.16740e-53	1.000000
PAH1+H	7.08951e-55	1.000000	7.08951e-55	1.000000
rad34	4.70292e-57	1.000000	4.70292e-57	1.000000
rad42	3.40523e-61	1.000000	3.40523e-61	1.000000
rad41	4.30750e-62	1.000000	4.30750e-62	1.000000
rad47	6.38479e-65	1.000000	6.38479e-65	1.000000

0.100000000E-04 Pa, 40.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	9.35697e-33 (1.00)	9.35697e-33 (1.00)
Formation of rad11	9.35644e-33 (1.000)	9.35644e-33 (1.000)
Formation of rad6	5.26139e-37 (5.62e-05)	5.26138e-37 (5.62e-05)
H-abstraction	1.44763e-44 (1.55e-12)	1.44763e-44 (1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987155	0.987155	0.987155	0.987155
C2H2+PhCH2	0.00829697	0.995452	0.00829697	0.995452
PhCCH+CH3	0.00223627	0.997688	0.00223627	0.997688
PhCHCCH2+H	0.00140808	0.999096	0.00140808	0.999096
PhCCCH3+H	0.000844056	0.999940	0.000844056	0.999940
rad6	3.54903e-05	0.999976	3.54903e-05	0.999976
Ph+MeAc	1.10541e-05	0.999987	1.10541e-05	0.999987
rad8	7.02785e-06	0.999994	7.02785e-06	0.999994
rad9	3.23843e-06	0.999997	3.23843e-06	0.999997
PAH7+H	1.84964e-06	0.999999	1.84964e-06	0.999999
rad30	4.43970e-07	0.999999	4.43970e-07	0.999999
rad12	2.22477e-07	1.000000	2.22477e-07	1.000000
rad39	1.83037e-07	1.000000	1.83037e-07	1.000000
PAH9+H	9.01320e-08	1.000000	9.01320e-08	1.000000
rad15	7.98558e-08	1.000000	7.98558e-08	1.000000
rad28	6.42077e-08	1.000000	6.42077e-08	1.000000
rad35	4.73183e-08	1.000000	4.73183e-08	1.000000
Phenyl+Allene	3.46391e-08	1.000000	0.000000	1.000000
rad38	2.32151e-08	1.000000	2.32151e-08	1.000000
rad2	1.41130e-08	1.000000	1.41130e-08	1.000000
rad26	5.66589e-09	1.000000	5.66589e-09	1.000000
rad7	2.56468e-09	1.000000	2.56468e-09	1.000000
rad1	8.93591e-10	1.000000	8.93591e-10	1.000000
rad10	7.15612e-10	1.000000	7.15612e-10	1.000000
rad11	6.27593e-10	1.000000	6.27593e-10	1.000000
rad46	1.53490e-10	1.000000	1.53490e-10	1.000000
rad3	8.96656e-11	1.000000	8.96656e-11	1.000000
rad4	4.53514e-11	1.000000	4.53514e-11	1.000000
rad13	1.42490e-11	1.000000	1.42490e-11	1.000000
rad60syn	3.46790e-12	1.000000	3.46790e-12	1.000000
Benzene+2-propynyl	1.54712e-12	1.000000	1.54712e-12	1.000000
rad14	3.05854e-14	1.000000	3.05854e-14	1.000000
rad33	2.69265e-14	1.000000	2.69265e-14	1.000000
rad25	1.78034e-14	1.000000	1.78034e-14	1.000000
rad60anti	1.27971e-14	1.000000	1.27971e-14	1.000000
rad27	1.15143e-14	1.000000	1.15143e-14	1.000000
PhCH2CCH+H	6.60108e-17	1.000000	6.60108e-17	1.000000
rad37	6.15864e-18	1.000000	6.15864e-18	1.000000
rad31	2.68669e-19	1.000000	2.68669e-19	1.000000
rad20	6.59341e-20	1.000000	6.59341e-20	1.000000
rad21	4.85430e-20	1.000000	4.85430e-20	1.000000
rad23	2.11225e-20	1.000000	2.11225e-20	1.000000
rad5	4.02442e-21	1.000000	4.02442e-21	1.000000
rad18	2.71707e-22	1.000000	2.71707e-22	1.000000
rad22	1.89016e-22	1.000000	1.89016e-22	1.000000
rad45	1.39301e-22	1.000000	1.39301e-22	1.000000
rad36	8.66945e-24	1.000000	8.66945e-24	1.000000
PAH3+H	7.43167e-26	1.000000	7.43167e-26	1.000000
rad59	3.97656e-26	1.000000	3.97656e-26	1.000000
rad50	1.56850e-26	1.000000	1.56850e-26	1.000000
rad24	1.59219e-27	1.000000	1.59219e-27	1.000000
rad19syn	6.88746e-35	1.000000	6.88746e-35	1.000000
rad52	8.20904e-39	1.000000	8.20904e-39	1.000000
rad54	8.40130e-40	1.000000	8.40130e-40	1.000000
PAH10+CH3	5.56238e-40	1.000000	5.56238e-40	1.000000
rad43	1.28192e-40	1.000000	1.28192e-40	1.000000
rad62	3.91552e-43	1.000000	3.91552e-43	1.000000
rad51	4.33374e-46	1.000000	4.33374e-46	1.000000
rad70	5.00598e-49	1.000000	5.00598e-49	1.000000
PhcycC3H3_A+H	2.13440e-49	1.000000	2.13440e-49	1.000000
rad55	1.14851e-49	1.000000	1.14851e-49	1.000000
rad65	3.05873e-51	1.000000	3.05873e-51	1.000000
rad58	7.20966e-53	1.000000	7.20966e-53	1.000000
PAH1+H	1.02622e-54	1.000000	1.02622e-54	1.000000
rad34	6.87642e-57	1.000000	6.87642e-57	1.000000
rad42	5.15108e-61	1.000000	5.15108e-61	1.000000
rad41	6.69709e-62	1.000000	6.69709e-62	1.000000
rad47	6.17034e-65	1.000000	6.17034e-65	1.000000

0.100000000E-04 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	5.52690e-29 (1.00)	5.52690e-29 (1.00)
Formation of rad11	5.52459e-29 (1.000)	5.52459e-29 (1.000)
Formation of rad6	2.30840e-32 (0.000418)	2.30840e-32 (0.000418)
H-abstraction	3.35357e-38 (6.07e-10)	3.35357e-38 (6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.986820	0.986820	0.986820	0.986820
C2H2+PhCH2	0.00847611	0.995296	0.00847611	0.995296
PhCCH+CH3	0.00232845	0.997625	0.00232845	0.997625
PhCHCCH2+H	0.00145757	0.999082	0.00145757	0.999082
PhCCCH3+H	0.000877139	0.999959	0.000877139	0.999959
rad6	1.40714e-05	0.999973	1.40714e-05	0.999973
Ph+MeAc	1.25305e-05	0.999986	1.25305e-05	0.999986
rad8	7.38983e-06	0.999993	7.38984e-06	0.999993
rad9	3.46746e-06	0.999997	3.46746e-06	0.999997
PAH7+H	1.99681e-06	0.999999	1.99681e-06	0.999999
rad30	4.57476e-07	0.999999	4.57476e-07	0.999999
rad12	2.40340e-07	0.999999	2.40340e-07	0.999999
rad39	2.04398e-07	1.000000	2.04398e-07	1.000000
PAH9+H	9.32068e-08	1.000000	9.32068e-08	1.000000
rad15	8.28253e-08	1.000000	8.28253e-08	1.000000
Phenyl+Allene	5.77998e-08	1.000000	0.000000	1.000000
rad35	4.87576e-08	1.000000	4.87576e-08	1.000000
rad28	2.85351e-08	1.000000	2.85351e-08	1.000000
rad38	2.40835e-08	1.000000	2.40835e-08	1.000000
rad2	5.49827e-09	1.000000	5.49827e-09	1.000000
rad26	2.46966e-09	1.000000	2.46966e-09	1.000000
rad7	1.01743e-09	1.000000	1.01743e-09	1.000000
Benzene+2-propynyl	6.06773e-10	1.000000	6.06773e-10	1.000000
rad1	3.48745e-10	1.000000	3.48745e-10	1.000000
rad10	2.79501e-10	1.000000	2.79501e-10	1.000000
rad11	2.48929e-10	1.000000	2.48929e-10	1.000000
rad46	1.62953e-10	1.000000	1.62953e-10	1.000000
rad3	3.50595e-11	1.000000	3.50595e-11	1.000000
rad4	1.77404e-11	1.000000	1.77404e-11	1.000000
rad13	5.65745e-12	1.000000	5.65745e-12	1.000000
rad60syn	3.82755e-12	1.000000	3.82755e-12	1.000000
rad60anti	5.78618e-14	1.000000	5.78618e-14	1.000000
rad14	1.53457e-14	1.000000	1.53457e-14	1.000000
rad33	1.06969e-14	1.000000	1.06969e-14	1.000000
rad25	8.62850e-15	1.000000	8.62850e-15	1.000000
rad27	4.83023e-15	1.000000	4.83023e-15	1.000000
PhCH2CCH+H	2.68319e-16	1.000000	2.68319e-16	1.000000
rad37	1.66520e-17	1.000000	1.66520e-17	1.000000
rad31	1.07583e-19	1.000000	1.07583e-19	1.000000
rad20	2.70631e-20	1.000000	2.70631e-20	1.000000
rad21	1.99475e-20	1.000000	1.99475e-20	1.000000
rad5	9.96640e-21	1.000000	9.96640e-21	1.000000
rad23	5.35273e-21	1.000000	5.35273e-21	1.000000
rad18	1.11572e-22	1.000000	1.11572e-22	1.000000
rad22	6.18098e-23	1.000000	6.18098e-23	1.000000
rad45	3.49082e-23	1.000000	3.49082e-23	1.000000
rad36	2.17082e-24	1.000000	2.17082e-24	1.000000
PAH3+H	1.70871e-25	1.000000	1.70871e-25	1.000000
rad59	9.13949e-26	1.000000	9.13949e-26	1.000000
rad50	3.65207e-26	1.000000	3.65207e-26	1.000000
rad24	6.94271e-28	1.000000	6.94271e-28	1.000000
rad19syn	1.75128e-34	1.000000	1.75128e-34	1.000000
rad52	2.07157e-38	1.000000	2.07157e-38	1.000000
rad54	2.23492e-39	1.000000	2.23492e-39	1.000000
PAH10+CH3	1.51830e-39	1.000000	1.51830e-39	1.000000
rad43	3.49844e-40	1.000000	3.49844e-40	1.000000
rad62	1.08637e-42	1.000000	1.08637e-42	1.000000
rad51	1.18376e-45	1.000000	1.18376e-45	1.000000
rad70	1.45989e-48	1.000000	1.45989e-48	1.000000
PhcycC3H3_A+H	6.26318e-49	1.000000	6.26318e-49	1.000000
rad55	3.36805e-49	1.000000	3.36805e-49	1.000000
rad65	8.74492e-51	1.000000	8.74492e-51	1.000000
rad58	2.12696e-52	1.000000	2.12696e-52	1.000000
PAH1+H	3.19497e-54	1.000000	3.19497e-54	1.000000
rad34	2.16890e-56	1.000000	2.16890e-56	1.000000
rad42	1.75054e-60	1.000000	1.75054e-60	1.000000
rad41	2.51046e-61	1.000000	2.51046e-61	1.000000
rad47	1.43639e-64	1.000000	1.43639e-64	1.000000

0.100000000E-04 Pa, 60.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.83429e-26 (1.00)	1.83429e-26 (1.00)
Formation of rad11	1.83139e-26 (0.998)	1.83139e-26 (0.998)
Formation of rad6	2.90471e-29 (0.00158)	2.90471e-29 (0.00158)
H-abstraction	5.71259e-34 (3.11e-08)	5.71259e-34 (3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.986416	0.986416	0.986416	0.986416
C2H2+PhCH2	0.00868087	0.995097	0.00868087	0.995097
PhCCH+CH3	0.00243618	0.997533	0.00243618	0.997533
PhCHCCH2+H	0.00151486	0.999048	0.00151486	0.999048
PhCCCH3+H	0.000915574	0.999963	0.000915574	0.999963
Ph+MeAc	1.44295e-05	0.999978	1.44295e-05	0.999978
rad8	7.81948e-06	0.999986	7.81948e-06	0.999986
rad6	6.75204e-06	0.999992	6.75204e-06	0.999992
rad9	3.74799e-06	0.999996	3.74799e-06	0.999996
PAH7+H	2.17576e-06	0.999998	2.17576e-06	0.999998
rad30	4.73158e-07	0.999999	4.73158e-07	0.999999
rad12	2.61711e-07	0.999999	2.61711e-07	0.999999
rad39	2.31594e-07	0.999999	2.31594e-07	0.999999
PAH9+H	9.68126e-08	0.999999	9.68126e-08	0.999999
Phenyl+Allene	9.36940e-08	1.000000	0.000000	0.999999
rad15	8.63148e-08	1.000000	8.63149e-08	1.000000
rad35	5.04348e-08	1.000000	5.04348e-08	1.000000
Benzene+2-propynyl	3.11432e-08	1.000000	3.11432e-08	1.000000
rad38	2.51072e-08	1.000000	2.51072e-08	1.000000
rad28	1.50243e-08	1.000000	1.50243e-08	1.000000
rad2	2.60622e-09	1.000000	2.60622e-09	1.000000
rad26	1.28601e-09	1.000000	1.28601e-09	1.000000
rad7	4.88640e-10	1.000000	4.88640e-10	1.000000
rad46	1.74570e-10	1.000000	1.74570e-10	1.000000
rad1	1.65665e-10	1.000000	1.65665e-10	1.000000
rad10	1.32771e-10	1.000000	1.32771e-10	1.000000
rad11	1.19553e-10	1.000000	1.19553e-10	1.000000
rad3	1.66634e-11	1.000000	1.66634e-11	1.000000
rad4	8.43646e-12	1.000000	8.43646e-12	1.000000
rad60syn	4.43316e-12	1.000000	4.43316e-12	1.000000
rad13	2.71933e-12	1.000000	2.71933e-12	1.000000
rad60anti	1.68285e-13	1.000000	1.68285e-13	1.000000
rad14	9.12411e-15	1.000000	9.12412e-15	1.000000
PhCH2CCH+H	8.79296e-15	1.000000	8.79296e-15	1.000000
rad33	5.14515e-15	1.000000	5.14515e-15	1.000000
rad25	5.00361e-15	1.000000	5.00361e-15	1.000000
rad27	2.45879e-15	1.000000	2.45879e-15	1.000000
rad37	5.92671e-16	1.000000	5.92671e-16	1.000000
rad5	3.22139e-19	1.000000	3.22139e-19	1.000000
rad31	5.28371e-20	1.000000	5.28371e-20	1.000000
rad20	1.35436e-20	1.000000	1.35436e-20	1.000000
rad21	9.99674e-21	1.000000	9.99674e-21	1.000000
rad23	1.87912e-21	1.000000	1.87912e-21	1.000000
rad18	5.58916e-23	1.000000	5.58917e-23	1.000000
rad22	2.63299e-23	1.000000	2.63299e-23	1.000000
rad45	1.21655e-23	1.000000	1.21655e-23	1.000000
PAH3+H	3.09963e-24	1.000000	3.09963e-24	1.000000
rad59	1.67015e-24	1.000000	1.67015e-24	1.000000
rad50	9.21838e-25	1.000000	9.21838e-25	1.000000
rad36	7.55907e-25	1.000000	7.55907e-25	1.000000
rad24	3.74911e-28	1.000000	3.74911e-28	1.000000
rad19syn	1.11381e-33	1.000000	1.11381e-33	1.000000
rad52	1.30548e-37	1.000000	1.30548e-37	1.000000
rad54	1.50222e-38	1.000000	1.50222e-38	1.000000
PAH10+CH3	1.06739e-38	1.000000	1.06739e-38	1.000000
rad43	2.45884e-39	1.000000	2.45884e-39	1.000000
rad62	7.77542e-42	1.000000	7.77542e-42	1.000000
rad51	8.22026e-45	1.000000	8.22026e-45	1.000000
rad70	1.09790e-47	1.000000	1.09790e-47	1.000000
PhcycC3H3_A+H	4.74604e-48	1.000000	4.74604e-48	1.000000
rad55	2.55013e-48	1.000000	2.55013e-48	1.000000
rad65	6.42159e-50	1.000000	6.42159e-50	1.000000
rad58	1.62232e-51	1.000000	1.62232e-51	1.000000
PAH1+H	2.60754e-53	1.000000	2.60754e-53	1.000000
rad34	1.79617e-55	1.000000	1.79617e-55	1.000000
rad42	1.75362e-59	1.000000	1.75362e-59	1.000000
rad41	3.31403e-60	1.000000	3.31403e-60	1.000000
rad47	9.29337e-64	1.000000	9.29337e-64	1.000000

0.100000000E-04 Pa, 70.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.17336e-24 (1.00)	1.17336e-24 (1.00)
Formation of rad11	1.16857e-24 (0.996)	1.16857e-24 (0.996)
Formation of rad6	4.79505e-27 (0.00409)	4.79505e-27 (0.00409)
H-abstraction	5.89821e-31 (5.03e-07)	5.89821e-31 (5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.985955	0.985955	0.985955	0.985955
C2H2+PhCH2	0.00891001	0.994865	0.00891002	0.994865
PhCCH+CH3	0.00255944	0.997424	0.00255944	0.997424
PhCHCCH2+H	0.00157985	0.999004	0.00157985	0.999004
PhCCCH3+H	0.000959303	0.999963	0.000959303	0.999963
Ph+MeAc	1.68115e-05	0.999980	1.68115e-05	0.999980
rad8	8.31751e-06	0.999988	8.31751e-06	0.999988
rad9	4.08239e-06	0.999992	4.08239e-06	0.999992
rad6	3.65108e-06	0.999996	3.65108e-06	0.999996
PAH7+H	2.38867e-06	0.999998	2.38867e-06	0.999998
Benzene+2-propynyl	5.02676e-07	0.999999	5.02676e-07	0.999999
rad30	4.90966e-07	0.999999	4.90966e-07	0.999999
rad12	2.86875e-07	1.000000	2.86875e-07	1.000000
rad39	2.65289e-07	1.000000	2.65289e-07	1.000000
Phenyl+Allene	1.46770e-07	1.000000	0.000000	1.000000
PAH9+H	1.00948e-07	1.000000	1.00948e-07	1.000000
rad15	9.03228e-08	1.000000	9.03228e-08	1.000000
rad35	5.23464e-08	1.000000	5.23464e-08	1.000000
rad38	2.62872e-08	1.000000	2.62872e-08	1.000000
rad28	8.78562e-09	1.000000	8.78562e-09	1.000000
rad2	1.39658e-09	1.000000	1.39658e-09	1.000000
rad26	7.47439e-10	1.000000	7.47439e-10	1.000000
rad7	2.64519e-10	1.000000	2.64519e-10	1.000000
rad46	1.88501e-10	1.000000	1.88501e-10	1.000000
rad1	8.89956e-11	1.000000	8.89956e-11	1.000000
rad10	7.12921e-11	1.000000	7.12921e-11	1.000000
rad11	6.47242e-11	1.000000	6.47242e-11	1.000000
rad3	8.94827e-12	1.000000	8.94828e-12	1.000000
rad60syn	5.30127e-12	1.000000	5.30127e-12	1.000000
rad4	4.53328e-12	1.000000	4.53328e-12	1.000000
rad13	1.47332e-12	1.000000	1.47332e-12	1.000000
rad60anti	3.65430e-13	1.000000	3.65430e-13	1.000000
PhCH2CCH+H	1.70605e-13	1.000000	1.70605e-13	1.000000
rad37	2.06409e-14	1.000000	2.06409e-14	1.000000
rad14	6.00233e-15	1.000000	6.00233e-15	1.000000
rad25	3.23338e-15	1.000000	3.23338e-15	1.000000
rad33	2.78982e-15	1.000000	2.78982e-15	1.000000
rad27	1.41344e-15	1.000000	1.41344e-15	1.000000
rad5	1.59955e-17	1.000000	1.59955e-17	1.000000
rad31	2.96347e-20	1.000000	2.96347e-20	1.000000
rad20	7.68236e-21	1.000000	7.68236e-21	1.000000
rad21	5.67979e-21	1.000000	5.67979e-21	1.000000
rad23	8.08107e-22	1.000000	8.08107e-22	1.000000
PAH3+H	3.81403e-22	1.000000	3.81403e-22	1.000000
rad59	2.03854e-22	1.000000	2.03854e-22	1.000000
rad50	7.34873e-23	1.000000	7.34873e-23	1.000000
rad18	3.17367e-23	1.000000	3.17367e-23	1.000000
rad22	1.32095e-23	1.000000	1.32095e-23	1.000000
rad45	5.20544e-24	1.000000	5.20544e-24	1.000000
rad36	3.23188e-25	1.000000	3.23188e-25	1.000000
rad24	2.32633e-28	1.000000	2.32633e-28	1.000000
rad19syn	2.22758e-32	1.000000	2.22758e-32	1.000000
rad52	2.58453e-36	1.000000	2.58453e-36	1.000000
rad54	3.19672e-37	1.000000	3.19673e-37	1.000000
PAH10+CH3	2.34293e-37	1.000000	2.34293e-37	1.000000
rad43	5.39489e-38	1.000000	5.39489e-38	1.000000
rad62	1.76329e-40	1.000000	1.76329e-40	1.000000
rad51	1.81539e-43	1.000000	1.81540e-43	1.000000
rad70	2.65324e-46	1.000000	2.65324e-46	1.000000
PhcycC3H3_A+H	1.15701e-46	1.000000	1.15701e-46	1.000000
rad55	6.21075e-47	1.000000	6.21075e-47	1.000000
rad65	1.51140e-48	1.000000	1.51140e-48	1.000000
rad58	3.98479e-50	1.000000	3.98479e-50	1.000000
PAH1+H	6.94696e-52	1.000000	6.94696e-52	1.000000
rad34	4.86021e-54	1.000000	4.86021e-54	1.000000
rad42	6.77383e-58	1.000000	6.77383e-58	1.000000
rad41	1.81881e-58	1.000000	1.81881e-58	1.000000
rad47	2.03210e-62	1.000000	2.03210e-62	1.000000

0.100000000E-04 Pa, 80.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	2.68112e-23 (1.00)	2.68112e-23 (1.00)
Formation of rad11	2.65890e-23 (0.992)	2.65889e-23 (0.992)
Formation of rad6	2.22189e-25 (0.00829)	2.22189e-25 (0.00829)
H-abstraction	1.05871e-28 (3.95e-06)	1.05871e-28 (3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.985431	0.985431	0.985431	0.985431
C2H2+PhCH2	0.00916453	0.994596	0.00916453	0.994596
PhCCH+CH3	0.00269951	0.997295	0.00269952	0.997295
PhCHCCH2+H	0.00165307	0.998948	0.00165307	0.998948
PhCCCH3+H	0.00100870	0.999957	0.00100870	0.999957
Ph+MeAc	1.97820e-05	0.999977	1.97820e-05	0.999977
rad8	8.89011e-06	0.999986	8.89012e-06	0.999986
rad9	4.47766e-06	0.999990	4.47766e-06	0.999990
Benzene+2-propynyl	3.94877e-06	0.999994	3.94877e-06	0.999994
PAH7+H	2.64082e-06	0.999997	2.64082e-06	0.999997
rad6	2.14189e-06	0.999999	2.14190e-06	0.999999
rad30	5.11046e-07	0.999999	5.11046e-07	0.999999
rad12	3.16466e-07	1.000000	3.16466e-07	1.000000
rad39	3.06756e-07	1.000000	3.06756e-07	1.000000
Phenyl+Allene	2.23623e-07	1.000000	0.000000	1.000000
PAH9+H	1.05662e-07	1.000000	1.05662e-07	1.000000
rad15	9.48933e-08	1.000000	9.48933e-08	1.000000
rad35	5.45105e-08	1.000000	5.45106e-08	1.000000
rad38	2.76391e-08	1.000000	2.76391e-08	1.000000
rad28	5.51460e-09	1.000000	5.51461e-09	1.000000
rad2	8.13456e-10	1.000000	8.13456e-10	1.000000
rad26	4.67810e-10	1.000000	4.67810e-10	1.000000
rad46	2.05128e-10	1.000000	2.05128e-10	1.000000
rad7	1.55375e-10	1.000000	1.55375e-10	1.000000
rad1	5.19812e-11	1.000000	5.19813e-11	1.000000
rad10	4.16092e-11	1.000000	4.16092e-11	1.000000
rad11	3.80239e-11	1.000000	3.80240e-11	1.000000
rad60syn	6.47040e-12	1.000000	6.47041e-12	1.000000
rad3	5.22287e-12	1.000000	5.22287e-12	1.000000
rad4	2.64786e-12	1.000000	2.64786e-12	1.000000
PhCH2CCH+H	1.68210e-12	1.000000	1.68210e-12	1.000000
rad13	8.66174e-13	1.000000	8.66174e-13	1.000000
rad60anti	6.66443e-13	1.000000	6.66443e-13	1.000000
rad37	3.03009e-13	1.000000	3.03009e-13	1.000000
rad14	4.21697e-15	1.000000	4.21697e-15	1.000000
rad25	2.24327e-15	1.000000	2.24327e-15	1.000000
rad33	1.64158e-15	1.000000	1.64158e-15	1.000000
rad27	8.83084e-16	1.000000	8.83084e-16	1.000000
rad5	3.26437e-16	1.000000	3.26437e-16	1.000000
rad31	1.83027e-20	1.000000	1.83027e-20	1.000000
PAH3+H	1.75019e-20	1.000000	1.75019e-20	1.000000
rad59	9.12283e-21	1.000000	9.12284e-21	1.000000
rad20	4.75040e-21	1.000000	4.75040e-21	1.000000
rad21	3.51864e-21	1.000000	3.51864e-21	1.000000
rad50	2.23807e-21	1.000000	2.23807e-21	1.000000
rad23	3.99218e-22	1.000000	3.99218e-22	1.000000
rad18	1.96392e-23	1.000000	1.96392e-23	1.000000
rad22	7.40244e-24	1.000000	7.40244e-24	1.000000
rad45	2.56279e-24	1.000000	2.56279e-24	1.000000
rad36	1.59005e-25	1.000000	1.59005e-25	1.000000
rad19syn	3.52242e-28	1.000000	3.52242e-28	1.000000
rad24	1.59373e-28	1.000000	1.59373e-28	1.000000
rad52	3.72407e-32	1.000000	3.72407e-32	1.000000
rad54	3.50878e-35	1.000000	3.50878e-35	1.000000
PAH10+CH3	2.45197e-35	1.000000	2.45197e-35	1.000000
rad43	5.64075e-36	1.000000	5.64075e-36	1.000000
rad62	1.95654e-38	1.000000	1.95654e-38	1.000000
rad51	2.07103e-41	1.000000	2.07103e-41	1.000000
rad70	3.32438e-44	1.000000	3.32438e-44	1.000000
PhcycC3H3_A+H	1.46282e-44	1.000000	1.46282e-44	1.000000
rad55	7.84408e-45	1.000000	7.84409e-45	1.000000
rad65	1.84241e-46	1.000000	1.84241e-46	1.000000
rad58	5.07708e-48	1.000000	5.07708e-48	1.000000
PAH1+H	9.64353e-50	1.000000	9.64353e-50	1.000000
rad34	6.84347e-52	1.000000	6.84347e-52	1.000000
rad42	1.12538e-55	1.000000	1.12538e-55	1.000000
rad41	3.35864e-56	1.000000	3.35864e-56	1.000000
rad47	2.37302e-60	1.000000	2.37302e-60	1.000000

0.100000000E-04 Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	3.08379e-22 (1.00)	3.08379e-22 (1.00)
Formation of rad11	3.03962e-22 (0.986)	3.03962e-22 (0.986)
Formation of rad6	4.41076e-24 (0.0143)	4.41076e-24 (0.0143)
H-abstraction	5.92916e-27 (1.92e-05)	5.92916e-27 (1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.984832	0.984832	0.984832	0.984832
C2H2+PhCH2	0.00944662	0.994279	0.00944662	0.994279
PhCCH+CH3	0.00285838	0.997137	0.00285838	0.997137
PhCHCCH2+H	0.00173537	0.998872	0.00173537	0.998872
PhCCCH3+H	0.00106436	0.999937	0.00106436	0.999937
Ph+MeAc	2.34796e-05	0.999960	2.34796e-05	0.999960
Benzene+2-propynyl	1.92269e-05	0.999979	1.92269e-05	0.999979
rad8	9.54664e-06	0.999989	9.54665e-06	0.999989
rad9	4.94387e-06	0.999994	4.94387e-06	0.999994
PAH7+H	2.93960e-06	0.999997	2.93960e-06	0.999997
rad6	1.33241e-06	0.999998	1.33241e-06	0.999998
rad30	5.33654e-07	0.999999	5.33655e-07	0.999999
rad39	3.57720e-07	0.999999	3.57720e-07	0.999999
rad12	3.51265e-07	0.999999	3.51265e-07	0.999999
Phenyl+Allene	3.33232e-07	1.000000	0.000000	0.999999
PAH9+H	1.11030e-07	1.000000	1.11030e-07	1.000000
rad15	1.00098e-07	1.000000	1.00098e-07	1.000000
rad35	5.69580e-08	1.000000	5.69580e-08	1.000000
rad38	2.91874e-08	1.000000	2.91874e-08	1.000000
rad28	3.64059e-09	1.000000	3.64059e-09	1.000000
rad2	5.03393e-10	1.000000	5.03393e-10	1.000000
rad26	3.08635e-10	1.000000	3.08635e-10	1.000000
rad46	2.24991e-10	1.000000	2.24992e-10	1.000000
rad7	9.67883e-11	1.000000	9.67883e-11	1.000000
rad1	3.22668e-11	1.000000	3.22668e-11	1.000000
rad10	2.57974e-11	1.000000	2.57974e-11	1.000000
rad11	2.36910e-11	1.000000	2.36910e-11	1.000000
PhCH2CCH+H	1.03714e-11	1.000000	1.03714e-11	1.000000
rad60syn	8.01574e-12	1.000000	8.01574e-12	1.000000
rad3	3.23835e-12	1.000000	3.23835e-12	1.000000
rad37	2.40352e-12	1.000000	2.40352e-12	1.000000
rad4	1.64307e-12	1.000000	1.64307e-12	1.000000
rad60anti	1.09277e-12	1.000000	1.09277e-12	1.000000
rad13	5.40067e-13	1.000000	5.40067e-13	1.000000
rad5	3.47734e-15	1.000000	3.47734e-15	1.000000
rad14	3.09953e-15	1.000000	3.09953e-15	1.000000
rad25	1.63476e-15	1.000000	1.63476e-15	1.000000
rad33	1.02452e-15	1.000000	1.02452e-15	1.000000
rad27	5.85976e-16	1.000000	5.85976e-16	1.000000
PAH3+H	3.47839e-19	1.000000	3.47839e-19	1.000000
rad59	1.75123e-19	1.000000	1.75123e-19	1.000000
rad50	3.24762e-20	1.000000	3.24762e-20	1.000000
rad31	1.22040e-20	1.000000	1.22040e-20	1.000000
rad20	3.12801e-21	1.000000	3.12801e-21	1.000000
rad21	2.32172e-21	1.000000	2.32172e-21	1.000000
rad23	2.18196e-22	1.000000	2.18196e-22	1.000000
rad18	1.29348e-23	1.000000	1.29348e-23	1.000000
rad22	4.49037e-24	1.000000	4.49037e-24	1.000000
rad45	1.39707e-24	1.000000	1.39707e-24	1.000000
rad19syn	1.46214e-25	1.000000	1.46214e-25	1.000000
rad36	8.66318e-26	1.000000	8.66319e-26	1.000000
rad24	1.17702e-28	1.000000	1.17702e-28	1.000000
rad52	1.23177e-29	1.000000	1.23177e-29	1.000000
rad54	6.86240e-30	1.000000	6.86241e-30	1.000000
PAH10+CH3	3.93543e-30	1.000000	3.93544e-30	1.000000
rad43	9.87666e-31	1.000000	9.87667e-31	1.000000
rad62	7.46453e-36	1.000000	7.46453e-36	1.000000
rad51	8.14502e-39	1.000000	8.14503e-39	1.000000
rad70	1.44025e-41	1.000000	1.44025e-41	1.000000
PhcycC3H3_A+H	6.39552e-42	1.000000	6.39553e-42	1.000000
rad55	3.42571e-42	1.000000	3.42571e-42	1.000000
rad65	7.75274e-44	1.000000	7.75275e-44	1.000000
rad58	2.23690e-45	1.000000	2.23691e-45	1.000000
PAH1+H	4.61286e-47	1.000000	4.61286e-47	1.000000
rad34	3.32293e-49	1.000000	3.32293e-49	1.000000
rad42	5.23592e-53	1.000000	5.23592e-53	1.000000
rad41	1.49281e-53	1.000000	1.49281e-53	1.000000
rad47	9.74113e-58	1.000000	9.74113e-58	1.000000

0.100000000E-04 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14497e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.984132	0.984132	0.984132	0.984132
C2H2+PhCH2	0.00975858	0.993891	0.00975859	0.993891
PhCCH+CH3	0.00303806	0.996929	0.00303806	0.996929
PhCHCCH2+H	0.00182762	0.998756	0.00182762	0.998756
PhCCCH3+H	0.00112689	0.999883	0.00112689	0.999883
Benzene+2-propynyl	6.70630e-05	0.999950	6.70630e-05	0.999950
Ph+MeAc	2.80661e-05	0.999978	2.80661e-05	0.999978
rad8	1.02972e-05	0.999989	1.02972e-05	0.999989
rad9	5.49271e-06	0.999994	5.49272e-06	0.999994
PAH7+H	3.29365e-06	0.999997	3.29366e-06	0.999997
rad6	8.65966e-07	0.999998	8.65967e-07	0.999998
rad30	5.59074e-07	0.999999	5.59074e-07	0.999999
Phenyl+Allene	4.87229e-07	0.999999	0.00000	0.999999
rad39	4.20224e-07	1.000000	4.20224e-07	0.999999
rad12	3.92096e-07	1.000000	3.92097e-07	1.000000
PAH9+H	1.17140e-07	1.000000	1.17140e-07	1.000000
rad15	1.06018e-07	1.000000	1.06018e-07	1.000000
rad35	5.97229e-08	1.000000	5.97230e-08	1.000000
rad38	3.09600e-08	1.000000	3.09600e-08	1.000000
rad28	2.49479e-09	1.000000	2.49479e-09	1.000000
rad2	3.25819e-10	1.000000	3.25819e-10	1.000000
rad46	2.48735e-10	1.000000	2.48735e-10	1.000000
rad26	2.11702e-10	1.000000	2.11702e-10	1.000000
rad7	6.29980e-11	1.000000	6.29981e-11	1.000000
PhCH2CCH+H	4.59984e-11	1.000000	4.59984e-11	1.000000
rad1	2.09548e-11	1.000000	2.09549e-11	1.000000
rad10	1.67298e-11	1.000000	1.67298e-11	1.000000
rad11	1.54237e-11	1.000000	1.54237e-11	1.000000
rad37	1.23880e-11	1.000000	1.23880e-11	1.000000
rad60syn	1.00457e-11	1.000000	1.00457e-11	1.000000
rad3	2.09925e-12	1.000000	2.09925e-12	1.000000
rad60anti	1.67562e-12	1.000000	1.67562e-12	1.000000
rad4	1.06606e-12	1.000000	1.06606e-12	1.000000
rad13	3.51861e-13	1.000000	3.51862e-13	1.000000
rad5	2.34843e-14	1.000000	2.34843e-14	1.000000
rad14	2.35289e-15	1.000000	2.35289e-15	1.000000
rad25	1.23412e-15	1.000000	1.23413e-15	1.000000
rad33	6.68177e-16	1.000000	6.68177e-16	1.000000
rad27	4.06824e-16	1.000000	4.06824e-16	1.000000
PAH3+H	3.83441e-18	1.000000	3.83442e-18	1.000000
rad59	1.85429e-18	1.000000	1.85429e-18	1.000000
rad50	2.80604e-19	1.000000	2.80605e-19	1.000000
rad31	8.69040e-21	1.000000	8.69041e-21	1.000000
rad20	2.16040e-21	1.000000	2.16040e-21	1.000000
rad21	1.60718e-21	1.000000	1.60718e-21	1.000000
rad23	1.28875e-22	1.000000	1.28875e-22	1.000000
rad19syn	1.69286e-23	1.000000	1.69286e-23	1.000000
rad18	8.92887e-24	1.000000	8.92887e-24	1.000000
rad22	2.88986e-24	1.000000	2.88986e-24	1.000000
rad45	8.23735e-25	1.000000	8.23736e-25	1.000000
rad36	5.10592e-26	1.000000	5.10592e-26	1.000000
rad54	3.44378e-27	1.000000	3.44378e-27	1.000000
PAH10+CH3	2.22595e-27	1.000000	2.22595e-27	1.000000
rad52	1.20106e-27	1.000000	1.20106e-27	1.000000
rad43	5.29979e-28	1.000000	5.29979e-28	1.000000
rad24	9.22778e-29	1.000000	9.22779e-29	1.000000
rad62	6.92694e-30	1.000000	6.92695e-30	1.000000
rad51	7.65010e-33	1.000000	7.65011e-33	1.000000
rad70	1.30516e-38	1.000000	1.30516e-38	1.000000
PhcycC3H3_A+H	5.85057e-39	1.000000	5.85057e-39	1.000000
rad55	3.13016e-39	1.000000	3.13016e-39	1.000000
rad65	6.81045e-41	1.000000	6.81045e-41	1.000000
rad58	2.06258e-42	1.000000	2.06258e-42	1.000000
PAH1+H	4.62187e-44	1.000000	4.62187e-44	1.000000
rad34	3.38107e-46	1.000000	3.38107e-46	1.000000
rad42	4.73206e-50	1.000000	4.73206e-50	1.000000
rad41	1.17435e-50	1.000000	1.17435e-50	1.000000
rad47	8.47223e-55	1.000000	8.47223e-55	1.000000

0.100000000E-04 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06526e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44007e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.983288	0.983288	0.983289	0.983289
C2H2+PhCH2	0.0101023	0.993391	0.0101023	0.993392
PhCCH+CH3	0.00324043	0.996631	0.00324043	0.996632
PhCHCCH2+H	0.00193055	0.998562	0.00193055	0.998563
PhCCCH3+H	0.00119680	0.999758	0.00119680	0.999759
Benzene+2-propynyl	0.000183695	0.999942	0.000183695	0.999943
Ph+MeAc	3.37229e-05	0.999976	3.37230e-05	0.999977
rad8	1.11515e-05	0.999987	1.11515e-05	0.999988
rad9	6.13685e-06	0.999993	6.13685e-06	0.999994
PAH7+H	3.71246e-06	0.999997	3.71246e-06	0.999998
Phenyl+Allene	7.00384e-07	0.999998	0.00000	0.999998
rad30	5.87573e-07	0.999998	5.87573e-07	0.999998
rad6	5.82084e-07	0.999999	5.82085e-07	0.999999
rad39	4.96574e-07	0.999999	4.96574e-07	1.000000
rad12	4.39791e-07	1.000000	4.39792e-07	1.000000
PAH9+H	1.24082e-07	1.000000	1.24082e-07	1.000000
rad15	1.12734e-07	1.000000	1.12734e-07	1.000000
rad35	6.28393e-08	1.000000	6.28394e-08	1.000000
rad38	3.29857e-08	1.000000	3.29857e-08	1.000000
rad28	1.75883e-09	1.000000	1.75884e-09	1.000000
rad46	2.77099e-10	1.000000	2.77099e-10	1.000000
rad2	2.18401e-10	1.000000	2.18401e-10	1.000000
PhCH2CCH+H	1.60638e-10	1.000000	1.60638e-10	1.000000
rad26	1.49575e-10	1.000000	1.49575e-10	1.000000
rad37	4.67687e-11	1.000000	4.67687e-11	1.000000
rad7	4.24122e-11	1.000000	4.24122e-11	1.000000
rad1	1.40979e-11	1.000000	1.40979e-11	1.000000
rad60syn	1.26991e-11	1.000000	1.26992e-11	1.000000
rad10	1.12343e-11	1.000000	1.12343e-11	1.000000
rad11	1.03864e-11	1.000000	1.03864e-11	1.000000
rad60anti	2.45889e-12	1.000000	2.45889e-12	1.000000
rad3	1.40849e-12	1.000000	1.40849e-12	1.000000
rad4	7.15962e-13	1.000000	7.15962e-13	1.000000
rad13	2.37125e-13	1.000000	2.37125e-13	1.000000
rad5	1.14079e-13	1.000000	1.14079e-13	1.000000
rad14	1.82904e-15	1.000000	1.82905e-15	1.000000
rad25	9.56345e-16	1.000000	9.56346e-16	1.000000
rad33	4.50791e-16	1.000000	4.50791e-16	1.000000
rad27	2.92511e-16	1.000000	2.92511e-16	1.000000
PAH3+H	2.76092e-17	1.000000	2.76092e-17	1.000000
rad59	1.27918e-17	1.000000	1.27918e-17	1.000000
rad50	1.67086e-18	1.000000	1.67086e-18	1.000000
rad31	6.57527e-21	1.000000	6.57527e-21	1.000000
rad20	1.54909e-21	1.000000	1.54909e-21	1.000000
rad21	1.15530e-21	1.000000	1.15530e-21	1.000000
rad19syn	8.11779e-22	1.000000	8.11780e-22	1.000000
rad23	8.10322e-23	1.000000	8.10322e-23	1.000000
rad18	6.39298e-24	1.000000	6.39299e-24	1.000000
rad22	1.94652e-24	1.000000	1.94652e-24	1.000000
rad45	5.17512e-25	1.000000	5.17513e-25	1.000000
rad54	3.80822e-25	1.000000	3.80822e-25	1.000000
PAH10+CH3	2.48854e-25	1.000000	2.48854e-25	1.000000
rad43	5.95385e-26	1.000000	5.95385e-26	1.000000
rad52	5.03863e-26	1.000000	5.03863e-26	1.000000
rad36	3.20705e-26	1.000000	3.20705e-26	1.000000
rad62	1.37874e-27	1.000000	1.37874e-27	1.000000
rad24	7.60046e-29	1.000000	7.60046e-29	1.000000
rad51	1.43633e-30	1.000000	1.43633e-30	1.000000
rad65	1.70808e-34	1.000000	1.70809e-34	1.000000
rad70	1.18255e-35	1.000000	1.18255e-35	1.000000
PhcycC3H3_A+H	5.35327e-36	1.000000	5.35327e-36	1.000000
rad55	2.86047e-36	1.000000	2.86047e-36	1.000000
rad58	1.90278e-39	1.000000	1.90278e-39	1.000000
PAH1+H	4.64617e-41	1.000000	4.64617e-41	1.000000
rad34	3.45651e-43	1.000000	3.45652e-43	1.000000
rad42	4.48092e-47	1.000000	4.48093e-47	1.000000
rad41	9.57614e-48	1.000000	9.57615e-48	1.000000
rad47	7.46176e-52	1.000000	7.46177e-52	1.000000

0.100000000E-04 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	4.24245e-20	(1.00)	4.24245e-20	(1.00)
Formation of rad11	4.06372e-20	(0.958)	4.06372e-20	(0.958)
Formation of rad6	1.76944e-21	(0.0417)	1.76944e-21	(0.0417)
H-abstraction	1.78210e-23	(0.000420)	1.78210e-23	(0.000420)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.982247	0.982247	0.982248	0.982248
C2H2+PhCH2	0.0104795	0.992727	0.0104795	0.992728
PhCCH+CH3	0.00346713	0.996194	0.00346713	0.996195
PhCHCCH2+H	0.00204475	0.998239	0.00204475	0.998240
PhCCCH3+H	0.00127450	0.999513	0.00127450	0.999514
Benzene+2-propynyl	0.000420064	0.999933	0.000420064	0.999934
Ph+MeAc	4.06525e-05	0.999974	4.06526e-05	0.999975
rad8	1.21186e-05	0.999986	1.21186e-05	0.999987
rad9	6.88980e-06	0.999993	6.88981e-06	0.999994
PAH7+H	4.20637e-06	0.999997	4.20638e-06	0.999998
Phenyl+Allene	9.91349e-07	0.999998	0.00000	0.999998
rad30	6.19407e-07	0.999999	6.19408e-07	0.999999
rad39	5.89375e-07	0.999999	5.89376e-07	0.999999
rad12	4.95192e-07	1.000000	4.95192e-07	1.000000
rad6	4.01774e-07	1.000000	4.01774e-07	1.000000
PAH9+H	1.31946e-07	1.000000	1.31946e-07	1.000000
rad15	1.20329e-07	1.000000	1.20329e-07	1.000000
rad35	6.63402e-08	1.000000	6.63403e-08	1.000000
rad38	3.52947e-08	1.000000	3.52947e-08	1.000000
rad28	1.26770e-09	1.000000	1.26770e-09	1.000000
PhCH2CCH+H	4.69228e-10	1.000000	4.69228e-10	1.000000
rad46	3.10929e-10	1.000000	3.10929e-10	1.000000
rad2	1.50375e-10	1.000000	1.50375e-10	1.000000
rad37	1.40104e-10	1.000000	1.40104e-10	1.000000
rad26	1.08144e-10	1.000000	1.08144e-10	1.000000
rad7	2.93224e-11	1.000000	2.93225e-11	1.000000
rad60syn	1.61473e-11	1.000000	1.61473e-11	1.000000
rad1	9.74565e-12	1.000000	9.74566e-12	1.000000
rad10	7.75217e-12	1.000000	7.75218e-12	1.000000
rad11	7.18289e-12	1.000000	7.18290e-12	1.000000
rad60anti	3.50167e-12	1.000000	3.50167e-12	1.000000
rad3	9.71513e-13	1.000000	9.71514e-13	1.000000
rad4	4.94366e-13	1.000000	4.94366e-13	1.000000
rad5	4.33451e-13	1.000000	4.33451e-13	1.000000
rad13	1.64116e-13	1.000000	1.64116e-13	1.000000
rad14	1.44759e-15	1.000000	1.44760e-15	1.000000
rad25	7.55944e-16	1.000000	7.55945e-16	1.000000
rad33	3.12361e-16	1.000000	3.12361e-16	1.000000
rad27	2.16244e-16	1.000000	2.16244e-16	1.000000
PAH3+H	1.44853e-16	1.000000	1.44853e-16	1.000000
rad59	6.42635e-17	1.000000	6.42636e-17	1.000000
rad50	7.55826e-18	1.000000	7.55826e-18	1.000000
rad19syn	2.03460e-20	1.000000	2.03460e-20	1.000000
rad31	5.27583e-21	1.000000	5.27584e-21	1.000000
rad20	1.14495e-21	1.000000	1.14495e-21	1.000000
rad21	8.56242e-22	1.000000	8.56243e-22	1.000000
rad23	5.37315e-23	1.000000	5.37315e-23	1.000000
rad54	1.78860e-23	1.000000	1.78860e-23	1.000000
PAH10+CH3	1.18105e-23	1.000000	1.18106e-23	1.000000
rad18	4.71282e-24	1.000000	4.71282e-24	1.000000
rad43	2.84057e-24	1.000000	2.84057e-24	1.000000
rad22	1.35922e-24	1.000000	1.35922e-24	1.000000
rad52	1.13250e-24	1.000000	1.13250e-24	1.000000
rad45	3.42967e-25	1.000000	3.42967e-25	1.000000
rad62	1.01741e-25	1.000000	1.01741e-25	1.000000
rad36	2.12528e-26	1.000000	2.12528e-26	1.000000
rad51	1.05153e-28	1.000000	1.05153e-28	1.000000
rad24	6.52867e-29	1.000000	6.52868e-29	1.000000
rad70	3.03476e-29	1.000000	3.03476e-29	1.000000
PhcycC3H3_A+H	1.82704e-29	1.000000	1.82704e-29	1.000000
rad55	1.01624e-29	1.000000	1.01624e-29	1.000000
rad65	3.61492e-32	1.000000	3.61492e-32	1.000000
rad58	8.74397e-33	1.000000	8.74398e-33	1.000000
PAH1+H	5.48810e-38	1.000000	5.48811e-38	1.000000
rad34	4.15271e-40	1.000000	4.15272e-40	1.000000
rad42	5.03895e-44	1.000000	5.03896e-44	1.000000
rad41	8.81107e-45	1.000000	8.81107e-45	1.000000
rad47	7.77730e-49	1.000000	7.77731e-49	1.000000

0.100000000E-04 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.33719e-19 (1.00)	1.33719e-19 (1.00)
Formation of rad11	1.26517e-19 (0.946)	1.26517e-19 (0.946)
Formation of rad6	7.08974e-21 (0.0530)	7.08973e-21 (0.0530)
H-abstraction	1.11864e-22 (0.000837)	1.11864e-22 (0.000837)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.980943	0.980943	0.980945	0.980945
C2H2+PhCH2	0.0108911	0.991834	0.0108912	0.991836
PhCCH+CH3	0.00371963	0.995553	0.00371964	0.995556
PhCHCCH2+H	0.00217071	0.997724	0.00217071	0.997726
PhCCCH3+H	0.00136032	0.999084	0.00136033	0.999087
Benzene+2-propynyl	0.000836559	0.999921	0.000836560	0.999923
Ph+MeAc	4.90813e-05	0.999970	4.90813e-05	0.999972
rad8	1.32072e-05	0.999983	1.32072e-05	0.999985
rad9	7.76628e-06	0.999991	7.76629e-06	0.999993
PAH7+H	4.78689e-06	0.999996	4.78690e-06	0.999998
Phenyl+Allene	1.38368e-06	0.999997	0.00000	0.999998
rad39	7.01599e-07	0.999998	7.01600e-07	0.999999
rad30	6.54821e-07	0.999999	6.54822e-07	0.999999
rad12	5.59162e-07	0.999999	5.59163e-07	1.000000
rad6	2.83283e-07	0.999999	2.83283e-07	1.000000
PAH9+H	1.40826e-07	1.000000	1.40826e-07	1.000000
rad15	1.28887e-07	1.000000	1.28887e-07	1.000000
rad35	7.02595e-08	1.000000	7.02596e-08	1.000000
rad38	3.79190e-08	1.000000	3.79190e-08	1.000000
PhCH2CCH+H	1.19528e-09	1.000000	1.19528e-09	1.000000
rad28	9.29877e-10	1.000000	9.29878e-10	1.000000
rad37	3.51953e-10	1.000000	3.51954e-10	1.000000
rad46	3.51220e-10	1.000000	3.51221e-10	1.000000
rad2	1.05967e-10	1.000000	1.05967e-10	1.000000
rad26	7.96336e-11	1.000000	7.96337e-11	1.000000
rad7	2.07101e-11	1.000000	2.07101e-11	1.000000
rad60syn	2.06012e-11	1.000000	2.06013e-11	1.000000
rad1	6.89755e-12	1.000000	6.89756e-12	1.000000
rad10	5.47178e-12	1.000000	5.47179e-12	1.000000
rad11	5.07476e-12	1.000000	5.07477e-12	1.000000
rad60anti	4.88119e-12	1.000000	4.88119e-12	1.000000
rad5	1.36460e-12	1.000000	1.36460e-12	1.000000
rad3	6.85219e-13	1.000000	6.85220e-13	1.000000
rad4	3.49090e-13	1.000000	3.49091e-13	1.000000
rad13	1.16043e-13	1.000000	1.16043e-13	1.000000
rad14	1.16171e-15	1.000000	1.16171e-15	1.000000
rad25	6.06814e-16	1.000000	6.06814e-16	1.000000
PAH3+H	5.97268e-16	1.000000	5.97269e-16	1.000000
rad59	2.53891e-16	1.000000	2.53892e-16	1.000000
rad33	2.21138e-16	1.000000	2.21139e-16	1.000000
rad27	1.63503e-16	1.000000	1.63503e-16	1.000000
rad50	2.77753e-17	1.000000	2.77754e-17	1.000000
rad19syn	3.10916e-19	1.000000	3.10917e-19	1.000000
rad31	4.48930e-21	1.000000	4.48931e-21	1.000000
rad20	8.67829e-22	1.000000	8.67831e-22	1.000000
rad21	6.50959e-22	1.000000	6.50960e-22	1.000000
rad54	4.59039e-22	1.000000	4.59040e-22	1.000000
PAH10+CH3	3.05724e-22	1.000000	3.05724e-22	1.000000
rad43	7.38503e-23	1.000000	7.38504e-23	1.000000
rad23	3.73826e-23	1.000000	3.73826e-23	1.000000
rad52	1.58200e-23	1.000000	1.58201e-23	1.000000
rad62	3.62252e-24	1.000000	3.62253e-24	1.000000
rad18	3.55803e-24	1.000000	3.55804e-24	1.000000
rad22	9.77170e-25	1.000000	9.77171e-25	1.000000
rad45	2.38598e-25	1.000000	2.38599e-25	1.000000
rad36	1.47876e-26	1.000000	1.47876e-26	1.000000
rad51	3.73355e-27	1.000000	3.73355e-27	1.000000
rad70	2.72506e-27	1.000000	2.72507e-27	1.000000
PhcycC3H3_A+H	2.14617e-27	1.000000	2.14617e-27	1.000000
rad55	9.74034e-28	1.000000	9.74036e-28	1.000000
rad24	5.81729e-29	1.000000	5.81730e-29	1.000000
rad65	2.45298e-30	1.000000	2.45299e-30	1.000000
rad58	1.13109e-30	1.000000	1.13109e-30	1.000000
PAH1+H	4.51043e-35	1.000000	4.51044e-35	1.000000
rad34	3.47436e-37	1.000000	3.47437e-37	1.000000
rad42	4.19266e-41	1.000000	4.19266e-41	1.000000
rad41	6.41276e-42	1.000000	6.41277e-42	1.000000
rad47	3.58529e-42	1.000000	3.58530e-42	1.000000

0.100000000E-04 Pa, 140.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	3.59582e-19	(1.00)	3.59581e-19	(1.00)
Formation of rad11	3.35703e-19	(0.934)	3.35702e-19	(0.934)
Formation of rad6	2.33415e-20	(0.0649)	2.33414e-20	(0.0649)
H-abstraction	5.37685e-22	(0.00150)	5.37685e-22	(0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.979311	0.979311	0.979312	0.979312
C2H2+PhCH2	0.0113384	0.990650	0.0113384	0.990651
PhCCH+CH3	0.00399931	0.994649	0.00399932	0.994650
PhCHCCH2+H	0.00230884	0.996958	0.00230885	0.996959
Benzene+2-propynyl	0.00149531	0.998453	0.00149531	0.998454
PhCCCH3+H	0.00145454	0.999908	0.00145454	0.999909
Ph+MeAc	5.92636e-05	0.999967	5.92637e-05	0.999968
rad8	1.44256e-05	0.999982	1.44257e-05	0.999983
rad9	8.78246e-06	0.999990	8.78248e-06	0.999991
PAH7+H	5.46694e-06	0.999996	5.46695e-06	0.999997
Phenyl+Allene	1.90710e-06	0.999998	0.00000	0.999997
rad39	8.36671e-07	0.999999	8.36673e-07	0.999998
rad30	6.94074e-07	0.999999	6.94075e-07	0.999998
rad12	6.32611e-07	1.000000	6.32612e-07	0.999999
rad6	2.03238e-07	1.000000	2.03238e-07	0.999999
PAH9+H	1.50828e-07	1.000000	1.50828e-07	0.999999
rad15	1.38498e-07	1.000000	1.38498e-07	0.999999
rad35	7.46334e-08	1.000000	7.46335e-08	1.000000
rad38	4.08946e-08	1.000000	4.08947e-08	1.000000
PhCH2CCH+H	2.73530e-09	1.000000	2.73530e-09	1.000000
rad37	7.71177e-10	1.000000	7.71178e-10	1.000000
rad28	6.91811e-10	1.000000	6.91813e-10	1.000000
rad46	3.99156e-10	1.000000	3.99156e-10	1.000000
rad2	7.60035e-11	1.000000	7.60037e-11	1.000000
rad26	5.95138e-11	1.000000	5.95139e-11	1.000000
rad60syn	2.63219e-11	1.000000	2.63220e-11	1.000000
rad7	1.48846e-11	1.000000	1.48846e-11	1.000000
rad60anti	6.69698e-12	1.000000	6.69699e-12	1.000000
rad1	4.97060e-12	1.000000	4.97061e-12	1.000000
rad10	3.93324e-12	1.000000	3.93324e-12	1.000000
rad5	3.70796e-12	1.000000	3.70797e-12	1.000000
rad11	3.64852e-12	1.000000	3.64853e-12	1.000000
rad3	4.91885e-13	1.000000	4.91886e-13	1.000000
rad4	2.50915e-13	1.000000	2.50916e-13	1.000000
rad13	8.34991e-14	1.000000	8.34993e-14	1.000000
PAH3+H	2.04271e-15	1.000000	2.04271e-15	1.000000
rad14	9.42522e-16	1.000000	9.42524e-16	1.000000
rad59	8.33132e-16	1.000000	8.33134e-16	1.000000
rad25	4.93081e-16	1.000000	4.93082e-16	1.000000
rad33	1.59332e-16	1.000000	1.59332e-16	1.000000
rad27	1.25943e-16	1.000000	1.25943e-16	1.000000
rad50	8.69512e-17	1.000000	8.69513e-17	1.000000
rad19syn	3.22701e-18	1.000000	3.22702e-18	1.000000
rad54	7.40382e-21	1.000000	7.40384e-21	1.000000
PAH10+CH3	4.96770e-21	1.000000	4.96771e-21	1.000000
rad31	4.05111e-21	1.000000	4.05112e-21	1.000000
rad43	1.20445e-21	1.000000	1.20445e-21	1.000000
rad20	6.72047e-22	1.000000	6.72048e-22	1.000000
rad21	5.05771e-22	1.000000	5.05772e-22	1.000000
rad52	1.52527e-22	1.000000	1.52528e-22	1.000000
rad62	7.68997e-23	1.000000	7.68999e-23	1.000000
rad23	2.72513e-23	1.000000	2.72514e-23	1.000000
rad18	2.74012e-24	1.000000	2.74013e-24	1.000000
rad22	7.19570e-25	1.000000	7.19571e-25	1.000000
rad45	1.74119e-25	1.000000	1.74120e-25	1.000000
rad70	1.16342e-25	1.000000	1.16342e-25	1.000000
PhcycC3H3_A+H	1.06482e-25	1.000000	1.06482e-25	1.000000
rad51	7.94680e-26	1.000000	7.94681e-26	1.000000
rad55	4.37351e-26	1.000000	4.37352e-26	1.000000
rad36	1.07953e-26	1.000000	1.07953e-26	1.000000
PAH1+H	1.72866e-28	1.000000	1.72867e-28	1.000000
rad65	8.26184e-29	1.000000	8.26186e-29	1.000000
rad58	6.05527e-29	1.000000	6.05528e-29	1.000000
rad24	5.35503e-29	1.000000	5.35504e-29	1.000000
rad34	4.12805e-30	1.000000	4.12806e-30	1.000000
rad42	1.07644e-37	1.000000	1.07645e-37	1.000000
rad41	1.50181e-38	1.000000	1.50182e-38	1.000000
rad47	2.48359e-40	1.000000	2.48360e-40	1.000000

0.100000000E-04 Pa, 150.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	8.51464e-19 (1.00)	8.51462e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83709e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56649e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.977291	0.977291	0.977294	0.977294
C2H2+PhCH2	0.0118224	0.989114	0.0118225	0.989117
PhCCH+CH3	0.00430758	0.993421	0.00430759	0.993424
PhCHCCH2+H	0.00245954	0.995881	0.00245955	0.995884
Benzene+2-propynyl	0.00245244	0.998333	0.00245245	0.998336
PhCCCH3+H	0.00155738	0.999891	0.00155739	0.999894
Ph+MeAc	7.14861e-05	0.999962	7.14863e-05	0.999965
rad8	1.57822e-05	0.999978	1.57823e-05	0.999981
rad9	9.95649e-06	0.999988	9.95652e-06	0.999991
PAH7+H	6.26130e-06	0.999994	6.26131e-06	0.999997
Phenyl+Allene	2.59905e-06	0.999997	0.00000	0.999997
rad39	9.98575e-07	0.999998	9.98575e-07	0.999998
rad30	7.37446e-07	0.999999	7.37448e-07	0.999999
rad12	7.16496e-07	0.999999	7.16498e-07	1.000000
PAH9+H	1.62071e-07	0.999999	1.62071e-07	1.000000
rad15	1.49264e-07	1.000000	1.49264e-07	1.000000
rad6	1.47922e-07	1.000000	1.47923e-07	1.000000
rad35	7.95031e-08	1.000000	7.95033e-08	1.000000
rad38	4.42627e-08	1.000000	4.42628e-08	1.000000
PhCH2CCH+H	5.74659e-09	1.000000	5.74661e-09	1.000000
rad37	1.51693e-09	1.000000	1.51693e-09	1.000000
rad28	5.20694e-10	1.000000	5.20695e-10	1.000000
rad46	4.56167e-10	1.000000	4.56168e-10	1.000000
rad2	5.53518e-11	1.000000	5.53520e-11	1.000000
rad26	4.50202e-11	1.000000	4.50203e-11	1.000000
rad60syn	3.36352e-11	1.000000	3.36353e-11	1.000000
rad7	1.08535e-11	1.000000	1.08536e-11	1.000000
rad60anti	9.07628e-12	1.000000	9.07630e-12	1.000000
rad5	8.95864e-12	1.000000	8.95867e-12	1.000000
rad1	3.63863e-12	1.000000	3.63864e-12	1.000000
rad10	2.87072e-12	1.000000	2.87072e-12	1.000000
rad11	2.66136e-12	1.000000	2.66137e-12	1.000000
rad3	3.58714e-13	1.000000	3.58715e-13	1.000000
rad4	1.83240e-13	1.000000	1.83241e-13	1.000000
rad13	6.09604e-14	1.000000	6.09605e-14	1.000000
PAH3+H	6.02808e-15	1.000000	6.02810e-15	1.000000
rad59	2.36293e-15	1.000000	2.36293e-15	1.000000
rad14	7.71426e-16	1.000000	7.71428e-16	1.000000
rad25	4.04622e-16	1.000000	4.04623e-16	1.000000
rad50	2.40006e-16	1.000000	2.40007e-16	1.000000
rad33	1.16488e-16	1.000000	1.16488e-16	1.000000
rad27	9.85364e-17	1.000000	9.85366e-17	1.000000
rad19syn	2.46117e-17	1.000000	2.46118e-17	1.000000
rad54	8.25236e-20	1.000000	8.25238e-20	1.000000
PAH10+CH3	5.57234e-20	1.000000	5.57235e-20	1.000000
rad43	1.35481e-20	1.000000	1.35481e-20	1.000000
rad31	3.87332e-21	1.000000	3.87333e-21	1.000000
rad52	1.09576e-21	1.000000	1.09576e-21	1.000000
rad62	1.08546e-21	1.000000	1.08546e-21	1.000000
rad20	5.30254e-22	1.000000	5.30255e-22	1.000000
rad21	4.00512e-22	1.000000	4.00513e-22	1.000000
rad23	2.08664e-23	1.000000	2.08664e-23	1.000000
rad70	2.82749e-24	1.000000	2.82750e-24	1.000000
PhcycC3H3_A+H	2.82689e-24	1.000000	2.82689e-24	1.000000
rad18	2.14612e-24	1.000000	2.14612e-24	1.000000
rad51	1.13147e-24	1.000000	1.13147e-24	1.000000
rad55	1.09833e-24	1.000000	1.09833e-24	1.000000
rad22	5.40641e-25	1.000000	5.40642e-25	1.000000
rad45	1.33528e-25	1.000000	1.33528e-25	1.000000
PAH1+H	8.47514e-27	1.000000	8.47516e-27	1.000000
rad36	8.28361e-27	1.000000	8.28363e-27	1.000000
rad65	1.71239e-27	1.000000	1.71239e-27	1.000000
rad58	1.68995e-27	1.000000	1.68996e-27	1.000000
rad34	2.52723e-28	1.000000	2.52724e-28	1.000000
rad24	5.07651e-29	1.000000	5.07652e-29	1.000000
rad42	7.85444e-31	1.000000	7.85446e-31	1.000000
rad41	1.60817e-31	1.000000	1.60817e-31	1.000000
rad47	7.59450e-39	1.000000	7.59452e-39	1.000000

0.100000000E-04 Pa, 160.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.81800e-18 (1.00)	1.81800e-18 (1.00)
Formation of rad11	1.64862e-18 (0.907)	1.64862e-18 (0.907)
Formation of rad6	1.62558e-19 (0.0894)	1.62558e-19 (0.0894)
H-abstraction	6.82130e-21 (0.00375)	6.82130e-21 (0.00375)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.974837	0.974837	0.974840	0.974840
C2H2+PhCH2	0.0123447	0.987181	0.0123448	0.987184
PhCCH+CH3	0.00464586	0.991827	0.00464588	0.991830
Benzene+2-propynyl	0.00375209	0.995579	0.00375210	0.995582
PhCHCCH2+H	0.00262320	0.998202	0.00262321	0.998206
PhCCCH3+H	0.00166909	0.999872	0.00166909	0.999875
Ph+MeAc	8.60691e-05	0.999958	8.60694e-05	0.999961
rad8	1.72856e-05	0.999975	1.72857e-05	0.999978
rad9	1.13088e-05	0.999986	1.13088e-05	0.999989
PAH7+H	7.18690e-06	0.999993	7.18692e-06	0.999996
Phenyl+Allene	3.50646e-06	0.999997	0.00000	0.999996
rad39	1.19194e-06	0.999998	1.19195e-06	0.999998
rad12	8.11837e-07	0.999999	8.11840e-07	0.999998
rad30	7.85261e-07	1.000000	7.85264e-07	0.999999
PAH9+H	1.74693e-07	1.000000	1.74693e-07	0.999999
rad15	1.61301e-07	1.000000	1.61302e-07	1.000000
rad6	1.08969e-07	1.000000	1.08970e-07	1.000000
rad35	8.49159e-08	1.000000	8.49162e-08	1.000000
rad38	4.80712e-08	1.000000	4.80714e-08	1.000000
PhCH2CCH+H	1.12644e-08	1.000000	1.12644e-08	1.000000
rad37	2.73705e-09	1.000000	2.73706e-09	1.000000
rad46	5.23989e-10	1.000000	5.23991e-10	1.000000
rad28	3.95678e-10	1.000000	3.95680e-10	1.000000
rad60syn	4.29477e-11	1.000000	4.29478e-11	1.000000
rad2	4.08611e-11	1.000000	4.08612e-11	1.000000
rad26	3.44013e-11	1.000000	3.44014e-11	1.000000
rad5	1.96761e-11	1.000000	1.96762e-11	1.000000
rad60anti	1.21809e-11	1.000000	1.21809e-11	1.000000
rad7	8.01071e-12	1.000000	8.01073e-12	1.000000
rad1	2.70110e-12	1.000000	2.70111e-12	1.000000
rad10	2.12375e-12	1.000000	2.12375e-12	1.000000
rad11	1.96501e-12	1.000000	1.96502e-12	1.000000
rad3	2.65166e-13	1.000000	2.65167e-13	1.000000
rad4	1.35661e-13	1.000000	1.35662e-13	1.000000
rad13	4.50511e-14	1.000000	4.50512e-14	1.000000
PAH3+H	1.58084e-14	1.000000	1.58085e-14	1.000000
rad59	5.96648e-15	1.000000	5.96651e-15	1.000000
rad14	6.35915e-16	1.000000	6.35917e-16	1.000000
rad50	5.99192e-16	1.000000	5.99194e-16	1.000000
rad25	3.34716e-16	1.000000	3.34718e-16	1.000000
rad19syn	1.46296e-16	1.000000	1.46296e-16	1.000000
rad33	8.62148e-17	1.000000	8.62151e-17	1.000000
rad27	7.81229e-17	1.000000	7.81231e-17	1.000000
rad54	6.82273e-19	1.000000	6.82276e-19	1.000000
PAH10+CH3	4.63135e-19	1.000000	4.63136e-19	1.000000
rad43	1.12790e-19	1.000000	1.12790e-19	1.000000
rad62	1.10164e-20	1.000000	1.10164e-20	1.000000
rad52	6.21139e-21	1.000000	6.21141e-21	1.000000
rad31	3.91418e-21	1.000000	3.91419e-21	1.000000
rad20	4.25409e-22	1.000000	4.25410e-22	1.000000
rad21	3.22606e-22	1.000000	3.22607e-22	1.000000
PhcycC3H3_A+H	4.94884e-23	1.000000	4.94886e-23	1.000000
rad70	4.58066e-23	1.000000	4.58068e-23	1.000000
rad55	1.82886e-23	1.000000	1.82886e-23	1.000000
rad23	1.68927e-23	1.000000	1.68928e-23	1.000000
rad51	1.16587e-23	1.000000	1.16587e-23	1.000000
rad18	1.70554e-24	1.000000	1.70555e-24	1.000000
rad22	4.13212e-25	1.000000	4.13214e-25	1.000000
PAH1+H	2.26745e-25	1.000000	2.26746e-25	1.000000
rad45	1.08376e-25	1.000000	1.08376e-25	1.000000
rad58	3.08142e-26	1.000000	3.08143e-26	1.000000
rad65	2.43572e-26	1.000000	2.43573e-26	1.000000
rad34	7.87295e-27	1.000000	7.87298e-27	1.000000
rad36	6.72905e-27	1.000000	6.72907e-27	1.000000
rad24	4.94331e-29	1.000000	4.94332e-29	1.000000
rad42	4.07679e-29	1.000000	4.07680e-29	1.000000
rad41	9.77881e-30	1.000000	9.77885e-30	1.000000
rad47	1.41730e-37	1.000000	1.41731e-37	1.000000

0.100000000E-04 Pa, 170.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	3.56414e-18	(1.00)	3.56412e-18	(1.00)
Formation of rad11	3.18264e-18	(0.893)	3.18262e-18	(0.893)
Formation of rad6	3.62173e-19	(0.102)	3.62171e-19	(0.102)
H-abstraction	1.93278e-20	(0.00542)	1.93278e-20	(0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.971913	0.971913	0.971917	0.971917
C2H2+PhCH2	0.0129069	0.984820	0.0129070	0.984824
Benzene+2-propynyl	0.00542285	0.990243	0.00542288	0.990247
PhCCH+CH3	0.00501568	0.995258	0.00501571	0.995262
PhCHCCH2+H	0.00280023	0.998058	0.00280024	0.998063
PhCCCH3+H	0.00178986	0.999848	0.00178987	0.999852
Ph+MeAc	0.000103370	0.999952	0.000103370	0.999956
rad8	1.89445e-05	0.999971	1.89446e-05	0.999975
rad9	1.28624e-05	0.999983	1.28625e-05	0.999988
PAH7+H	8.26327e-06	0.999992	8.26330e-06	0.999996
Phenyl+Allene	4.68784e-06	0.999996	0.00000	0.999996
rad39	1.42217e-06	0.999998	1.42217e-06	0.999997
rad12	9.19709e-07	0.999999	9.19713e-07	0.999998
rad30	8.37884e-07	1.000000	8.37887e-07	0.999999
PAH9+H	1.88856e-07	1.000000	1.88857e-07	0.999999
rad15	1.74740e-07	1.000000	1.74741e-07	0.999999
rad35	9.09266e-08	1.000000	9.09270e-08	0.999999
rad6	8.10978e-08	1.000000	8.10982e-08	1.000000
rad38	5.23761e-08	1.000000	5.23764e-08	1.000000
PhCH2CCH+H	2.08554e-08	1.000000	2.08555e-08	1.000000
rad37	4.60521e-09	1.000000	4.60523e-09	1.000000
rad46	6.04728e-10	1.000000	6.04731e-10	1.000000
rad28	3.03098e-10	1.000000	3.03100e-10	1.000000
rad60syn	5.47674e-11	1.000000	5.47677e-11	1.000000
rad5	3.99506e-11	1.000000	3.99508e-11	1.000000
rad2	3.05061e-11	1.000000	3.05062e-11	1.000000
rad26	2.65108e-11	1.000000	2.65109e-11	1.000000
rad60anti	1.62159e-11	1.000000	1.62160e-11	1.000000
rad7	5.97360e-12	1.000000	5.97363e-12	1.000000
rad1	2.02886e-12	1.000000	2.02887e-12	1.000000
rad10	1.58923e-12	1.000000	1.58924e-12	1.000000
rad11	1.46589e-12	1.000000	1.46590e-12	1.000000
rad3	1.98078e-13	1.000000	1.98079e-13	1.000000
rad4	1.01509e-13	1.000000	1.01509e-13	1.000000
PAH3+H	3.76748e-14	1.000000	3.76750e-14	1.000000
rad13	3.36400e-14	1.000000	3.36401e-14	1.000000
rad59	1.37166e-14	1.000000	1.37167e-14	1.000000
rad50	1.37921e-15	1.000000	1.37922e-15	1.000000
rad19syn	7.08869e-16	1.000000	7.08872e-16	1.000000
rad14	5.27311e-16	1.000000	5.27313e-16	1.000000
rad25	2.78749e-16	1.000000	2.78751e-16	1.000000
rad33	6.44787e-17	1.000000	6.44790e-17	1.000000
rad27	6.26512e-17	1.000000	6.26515e-17	1.000000
rad54	4.41575e-18	1.000000	4.41577e-18	1.000000
PAH10+CH3	3.00980e-18	1.000000	3.00981e-18	1.000000
rad43	7.33309e-19	1.000000	7.33312e-19	1.000000
rad62	8.52755e-20	1.000000	8.52759e-20	1.000000
rad52	2.90232e-20	1.000000	2.90233e-20	1.000000
rad31	4.16354e-21	1.000000	4.16356e-21	1.000000
PhcycC3H3_A+H	6.18560e-22	1.000000	6.18563e-22	1.000000
rad70	5.33433e-22	1.000000	5.33434e-22	1.000000
rad20	3.46510e-22	1.000000	3.46511e-22	1.000000
rad21	2.63932e-22	1.000000	2.63933e-22	1.000000
rad55	2.18160e-22	1.000000	2.18160e-22	1.000000
rad51	9.22183e-23	1.000000	9.22187e-23	1.000000
rad23	1.46175e-23	1.000000	1.46176e-23	1.000000
PAH1+H	3.94430e-24	1.000000	3.94431e-24	1.000000
rad18	1.37279e-24	1.000000	1.37280e-24	1.000000
rad58	3.99304e-25	1.000000	3.99306e-25	1.000000
rad22	3.20516e-25	1.000000	3.20518e-25	1.000000
rad65	2.54719e-25	1.000000	2.54721e-25	1.000000
rad34	1.50321e-25	1.000000	1.50322e-25	1.000000
rad45	9.42210e-26	1.000000	9.42214e-26	1.000000
rad36	5.85683e-27	1.000000	5.85686e-27	1.000000
rad42	1.01746e-27	1.000000	1.01747e-27	1.000000
rad41	2.58569e-28	1.000000	2.58571e-28	1.000000
rad24	4.93405e-29	1.000000	4.93408e-29	1.000000
rad47	1.82770e-36	1.000000	1.82771e-36	1.000000

0.100000000E-04 Pa, 180.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	6.50681e-18 (1.00)	6.50677e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71911e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39008e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.968503	0.968503	0.968509	0.968509
C2H2+PhCH2	0.0135111	0.982014	0.0135112	0.982020
Benzene+2-propynyl	0.00747672	0.989491	0.00747676	0.989497
PhCCH+CH3	0.00541860	0.994910	0.00541863	0.994916
PhCHCCH2+H	0.00299106	0.997901	0.00299108	0.997907
PhCCCH3+H	0.00191991	0.999821	0.00191992	0.999827
Ph+MeAc	0.000123783	0.999944	0.000123783	0.999951
rad8	2.07679e-05	0.999965	2.07680e-05	0.999971
rad9	1.46432e-05	0.999980	1.46433e-05	0.999986
PAH7+H	9.51273e-06	0.999989	9.51279e-06	0.999995
Phenyl+Allene	6.21569e-06	0.999996	0.00000	0.999995
rad39	1.69545e-06	0.999997	1.69546e-06	0.999997
rad12	1.04124e-06	0.999998	1.04124e-06	0.999998
rad30	8.95731e-07	0.999999	8.95737e-07	0.999999
PAH9+H	2.04748e-07	0.999999	2.04750e-07	0.999999
rad15	1.89732e-07	1.000000	1.89733e-07	0.999999
rad35	9.75991e-08	1.000000	9.75997e-08	1.000000
rad6	6.08851e-08	1.000000	6.08855e-08	1.000000
rad38	5.72429e-08	1.000000	5.72433e-08	1.000000
PhCH2CCH+H	3.68171e-08	1.000000	3.68173e-08	1.000000
rad37	7.31815e-09	1.000000	7.31820e-09	1.000000
rad46	7.00939e-10	1.000000	7.00943e-10	1.000000
rad28	2.33756e-10	1.000000	2.33757e-10	1.000000
rad5	7.59677e-11	1.000000	7.59681e-11	1.000000
rad60syn	6.97264e-11	1.000000	6.97268e-11	1.000000
rad2	2.30335e-11	1.000000	2.30337e-11	1.000000
rad60anti	2.14396e-11	1.000000	2.14398e-11	1.000000
rad26	2.05776e-11	1.000000	2.05777e-11	1.000000
rad7	4.49393e-12	1.000000	4.49396e-12	1.000000
rad1	1.54201e-12	1.000000	1.54202e-12	1.000000
rad10	1.20221e-12	1.000000	1.20222e-12	1.000000
rad11	1.10325e-12	1.000000	1.10325e-12	1.000000
rad3	1.49665e-13	1.000000	1.49666e-13	1.000000
PAH3+H	8.30139e-14	1.000000	8.30143e-14	1.000000
rad4	7.68386e-14	1.000000	7.68391e-14	1.000000
rad59	2.92080e-14	1.000000	2.92082e-14	1.000000
rad13	2.53430e-14	1.000000	2.53432e-14	1.000000
rad50	2.97006e-15	1.000000	2.97008e-15	1.000000
rad19syn	2.89919e-15	1.000000	2.89920e-15	1.000000
rad14	4.39423e-16	1.000000	4.39426e-16	1.000000
rad25	2.33456e-16	1.000000	2.33457e-16	1.000000
rad27	5.07484e-17	1.000000	5.07487e-17	1.000000
rad33	4.86571e-17	1.000000	4.86574e-17	1.000000
rad54	2.33282e-17	1.000000	2.33283e-17	1.000000
PAH10+CH3	1.59456e-17	1.000000	1.59457e-17	1.000000
rad43	3.88157e-18	1.000000	3.88160e-18	1.000000
rad62	5.27043e-19	1.000000	5.27046e-19	1.000000
rad52	1.15637e-19	1.000000	1.15638e-19	1.000000
PhcycC3H3_A+H	5.85607e-21	1.000000	5.85610e-21	1.000000
rad70	4.72790e-21	1.000000	4.72792e-21	1.000000
rad31	4.63826e-21	1.000000	4.63829e-21	1.000000
rad55	1.97613e-21	1.000000	1.97615e-21	1.000000
rad51	5.86112e-22	1.000000	5.86115e-22	1.000000
rad20	2.86248e-22	1.000000	2.86249e-22	1.000000
rad21	2.19091e-22	1.000000	2.19093e-22	1.000000
PAH1+H	4.95203e-23	1.000000	4.95206e-23	1.000000
rad23	1.37163e-23	1.000000	1.37164e-23	1.000000
rad58	3.90821e-24	1.000000	3.90824e-24	1.000000
rad65	2.06551e-24	1.000000	2.06553e-24	1.000000
rad34	2.04055e-24	1.000000	2.04056e-24	1.000000
rad18	1.11757e-24	1.000000	1.11758e-24	1.000000
rad22	2.51858e-25	1.000000	2.51859e-25	1.000000
rad45	8.89492e-26	1.000000	8.89498e-26	1.000000
rad42	1.68940e-26	1.000000	1.68941e-26	1.000000
rad36	5.53715e-27	1.000000	5.53718e-27	1.000000
rad41	4.43571e-27	1.000000	4.43574e-27	1.000000
rad24	5.03918e-29	1.000000	5.03921e-29	1.000000
rad47	1.73397e-35	1.000000	1.73398e-35	1.000000

0.100000000E-04 Pa, 190.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.11858e-17 (1.00)	1.11857e-17 (1.00)
Formation of rad11	9.67466e-18 (0.865)	9.67458e-18 (0.865)
Formation of rad6	1.40029e-18 (0.125)	1.40028e-18 (0.125)
H-abstraction	1.10851e-19 (0.00991)	1.10851e-19 (0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.964607	0.964607	0.964615	0.964615
C2H2+PhCH2	0.0141597	0.978767	0.0141598	0.978775
Benzene+2-propynyl	0.00990995	0.988677	0.00991003	0.988685
PhCCH+CH3	0.00585620	0.994533	0.00585625	0.994541
PhCHCCH2+H	0.00319612	0.997729	0.00319614	0.997737
PhCCCH3+H	0.00205940	0.999788	0.00205941	0.999797
Ph+MeAc	0.000147733	0.999936	0.000147734	0.999944
rad8	2.27642e-05	0.999959	2.27643e-05	0.999967
rad9	1.66799e-05	0.999976	1.66800e-05	0.999984
PAH7+H	1.09608e-05	0.999987	1.09609e-05	0.999995
Phenyl+Allene	8.17919e-06	0.999995	0.00000	0.999995
rad39	2.01897e-06	0.999997	2.01898e-06	0.999997
rad12	1.17756e-06	0.999998	1.17757e-06	0.999998
rad30	9.59275e-07	0.999999	9.59283e-07	0.999999
PAH9+H	2.22585e-07	0.999999	2.22587e-07	0.999999
rad15	2.06446e-07	0.999999	2.06448e-07	0.999999
rad35	1.05006e-07	0.999999	1.05007e-07	0.999999
rad38	6.27474e-08	1.000000	6.27479e-08	0.999999
PhCH2CCH+H	6.24312e-08	1.000000	6.24318e-08	1.000000
rad6	4.60564e-08	1.000000	4.60568e-08	1.000000
rad37	1.10940e-08	1.000000	1.10941e-08	1.000000
rad46	8.15710e-10	1.000000	8.15717e-10	1.000000
rad28	1.81317e-10	1.000000	1.81318e-10	1.000000
rad5	1.36668e-10	1.000000	1.36670e-10	1.000000
rad60syn	8.86079e-11	1.000000	8.86087e-11	1.000000
rad60anti	2.81765e-11	1.000000	2.81768e-11	1.000000
rad2	1.75530e-11	1.000000	1.75531e-11	1.000000
rad26	1.60712e-11	1.000000	1.60713e-11	1.000000
rad7	3.40661e-12	1.000000	3.40664e-12	1.000000
rad1	1.18356e-12	1.000000	1.18357e-12	1.000000
rad10	9.18134e-13	1.000000	9.18141e-13	1.000000
rad11	8.36676e-13	1.000000	8.36682e-13	1.000000
PAH3+H	1.71397e-13	1.000000	1.71398e-13	1.000000
rad3	1.14136e-13	1.000000	1.14136e-13	1.000000
rad4	5.87151e-14	1.000000	5.87156e-14	1.000000
rad59	5.83802e-14	1.000000	5.83807e-14	1.000000
rad13	1.92396e-14	1.000000	1.92398e-14	1.000000
rad19syn	1.02868e-14	1.000000	1.02869e-14	1.000000
rad50	6.05154e-15	1.000000	6.05159e-15	1.000000
rad14	3.67728e-16	1.000000	3.67731e-16	1.000000
rad25	1.96471e-16	1.000000	1.96473e-16	1.000000
rad54	1.03964e-16	1.000000	1.03965e-16	1.000000
PAH10+CH3	7.11632e-17	1.000000	7.11638e-17	1.000000
rad27	4.14720e-17	1.000000	4.14724e-17	1.000000
rad33	3.70046e-17	1.000000	3.70049e-17	1.000000
rad43	1.72847e-17	1.000000	1.72849e-17	1.000000
rad62	2.69610e-18	1.000000	2.69612e-18	1.000000
rad52	4.03476e-19	1.000000	4.03479e-19	1.000000
PhcycC3H3_A+H	4.38885e-20	1.000000	4.38889e-20	1.000000
rad70	3.33194e-20	1.000000	3.33197e-20	1.000000
rad55	1.42081e-20	1.000000	1.42082e-20	1.000000
rad31	5.38230e-21	1.000000	5.38234e-21	1.000000
rad51	3.10215e-21	1.000000	3.10217e-21	1.000000
PAH1+H	4.73302e-22	1.000000	4.73306e-22	1.000000
rad20	2.39639e-22	1.000000	2.39641e-22	1.000000
rad21	1.84403e-22	1.000000	1.84404e-22	1.000000
rad58	3.02069e-23	1.000000	3.02071e-23	1.000000
rad34	2.08647e-23	1.000000	2.08649e-23	1.000000
rad23	1.41715e-23	1.000000	1.41716e-23	1.000000
rad65	1.35330e-23	1.000000	1.35331e-23	1.000000
rad18	9.19137e-25	1.000000	9.19145e-25	1.000000
rad42	2.03930e-25	1.000000	2.03931e-25	1.000000
rad22	2.00213e-25	1.000000	2.00214e-25	1.000000
rad45	9.26636e-26	1.000000	9.26644e-26	1.000000
rad41	5.49121e-26	1.000000	5.49125e-26	1.000000
rad36	5.77869e-27	1.000000	5.77874e-27	1.000000
rad24	5.25831e-29	1.000000	5.25835e-29	1.000000
rad47	1.27119e-34	1.000000	1.27120e-34	1.000000

0.100000000E-04 Pa, 200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.82690e-17 (1.00)	1.82688e-17 (1.00)
Formation of rad11	1.55456e-17 (0.851)	1.55454e-17 (0.851)
Formation of rad6	2.49126e-18 (0.136)	2.49124e-18 (0.136)
H-abstraction	2.32112e-19 (0.0127)	2.32112e-19 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.960237	0.960237	0.960247	0.960247
C2H2+PhCH2	0.0148551	0.975092	0.0148553	0.975102
Benzene+2-propynyl	0.0127053	0.987797	0.0127054	0.987807
PhCCH+CH3	0.00633011	0.994127	0.00633018	0.994138
PhCHCCH2+H	0.00341582	0.997543	0.00341586	0.997553
PhCCCH3+H	0.00220845	0.999752	0.00220847	0.999762
Ph+MeAc	0.000175685	0.999927	0.000175687	0.999938
rad8	2.49420e-05	0.999952	2.49423e-05	0.999963
rad9	1.90048e-05	0.999971	1.90050e-05	0.999982
PAH7+H	1.26365e-05	0.999984	1.26366e-05	0.999994
Phenyl+Allene	1.06874e-05	0.999995	0.00000	0.999994
rad39	2.40090e-06	0.999997	2.40093e-06	0.999997
rad12	1.32987e-06	0.999998	1.32989e-06	0.999998
rad30	1.02904e-06	0.999999	1.02905e-06	0.999999
PAH9+H	2.42618e-07	1.000000	2.42621e-07	0.999999
rad15	2.25073e-07	1.000000	2.25075e-07	0.999999
rad35	1.13232e-07	1.000000	1.13233e-07	1.000000
PhCH2CCH+H	1.02284e-07	1.000000	1.02285e-07	1.000000
rad38	6.89771e-08	1.000000	6.89778e-08	1.000000
rad6	3.50689e-08	1.000000	3.50693e-08	1.000000
rad37	1.61713e-08	1.000000	1.61715e-08	1.000000
rad46	9.52764e-10	1.000000	9.52775e-10	1.000000
rad5	2.34500e-10	1.000000	2.34502e-10	1.000000
rad28	1.41335e-10	1.000000	1.41337e-10	1.000000
rad60syn	1.12378e-10	1.000000	1.12379e-10	1.000000
rad60anti	3.68313e-11	1.000000	3.68317e-11	1.000000
rad2	1.35040e-11	1.000000	1.35041e-11	1.000000
rad26	1.26193e-11	1.000000	1.26194e-11	1.000000
rad7	2.59957e-12	1.000000	2.59960e-12	1.000000
rad1	9.17647e-13	1.000000	9.17657e-13	1.000000
rad10	7.07918e-13	1.000000	7.07926e-13	1.000000
rad11	6.38754e-13	1.000000	6.38761e-13	1.000000
PAH3+H	3.35100e-13	1.000000	3.35104e-13	1.000000
rad59	1.10680e-13	1.000000	1.10682e-13	1.000000
rad3	8.78267e-14	1.000000	8.78277e-14	1.000000
rad4	4.52799e-14	1.000000	4.52804e-14	1.000000
rad19syn	3.23672e-14	1.000000	3.23675e-14	1.000000
rad13	1.47045e-14	1.000000	1.47046e-14	1.000000
rad50	1.17692e-14	1.000000	1.17694e-14	1.000000
rad54	4.01253e-16	1.000000	4.01258e-16	1.000000
rad14	3.08850e-16	1.000000	3.08854e-16	1.000000
PAH10+CH3	2.74613e-16	1.000000	2.74616e-16	1.000000
rad25	1.66044e-16	1.000000	1.66046e-16	1.000000
rad43	6.64655e-17	1.000000	6.64663e-17	1.000000
rad27	3.41607e-17	1.000000	3.41611e-17	1.000000
rad33	2.83352e-17	1.000000	2.83355e-17	1.000000
rad62	1.17478e-17	1.000000	1.17479e-17	1.000000
rad52	1.25924e-18	1.000000	1.25925e-18	1.000000
PhcycC3H3_A+H	2.69642e-19	1.000000	2.69645e-19	1.000000
rad70	1.93305e-19	1.000000	1.93307e-19	1.000000
rad55	8.39730e-20	1.000000	8.39738e-20	1.000000
rad51	1.40657e-20	1.000000	1.40658e-20	1.000000
rad31	6.47292e-21	1.000000	6.47299e-21	1.000000
PAH1+H	3.58737e-21	1.000000	3.58740e-21	1.000000
rad20	2.03216e-22	1.000000	2.03218e-22	1.000000
rad58	1.90955e-22	1.000000	1.90957e-22	1.000000
rad34	1.67726e-22	1.000000	1.67728e-22	1.000000
rad21	1.57302e-22	1.000000	1.57304e-22	1.000000
rad65	7.40106e-23	1.000000	7.40115e-23	1.000000
rad23	1.63085e-23	1.000000	1.63087e-23	1.000000
rad42	1.88858e-24	1.000000	1.88860e-24	1.000000
rad18	7.63021e-25	1.000000	7.63029e-25	1.000000
rad41	5.19575e-25	1.000000	5.19581e-25	1.000000
rad22	1.60865e-25	1.000000	1.60867e-25	1.000000
rad45	1.07834e-25	1.000000	1.07835e-25	1.000000
rad36	6.73925e-27	1.000000	6.73932e-27	1.000000
rad24	5.59922e-29	1.000000	5.59927e-29	1.000000
rad47	7.49033e-34	1.000000	7.49041e-34	1.000000

0.100000000E-04 Pa, 210.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	2.85520e-17 (1.00)	2.85516e-17 (1.00)
Formation of rad11	2.39009e-17 (0.837)	2.39006e-17 (0.837)
Formation of rad6	4.19900e-18 (0.147)	4.19894e-18 (0.147)
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.955413	0.955413	0.955427	0.955427
Benzene+2-propynyl	0.0158346	0.971248	0.0158348	0.971261
C2H2+PhCH2	0.0156007	0.986848	0.0156009	0.986862
PhCCH+CH3	0.00684187	0.993690	0.00684196	0.993704
PhCHCCH2+H	0.00365058	0.997341	0.00365063	0.997355
PhCCCH3+H	0.00236714	0.999708	0.00236718	0.999722
Ph+MeAc	0.000208126	0.999916	0.000208129	0.999930
rad8	2.73092e-05	0.999943	2.73096e-05	0.999957
rad9	2.16532e-05	0.999965	2.16535e-05	0.999979
PAH7+H	1.45724e-05	0.999980	1.45726e-05	0.999994
Phenyl+Allene	1.38725e-05	0.999993	0.00000	0.999994
rad39	2.85056e-06	0.999996	2.85060e-06	0.999997
rad12	1.49930e-06	0.999998	1.49932e-06	0.999998
rad30	1.10560e-06	0.999999	1.10562e-06	0.999999
PAH9+H	2.65131e-07	0.999999	2.65134e-07	0.999999
rad15	2.45823e-07	0.999999	2.45826e-07	1.000000
PhCH2CCH+H	1.62659e-07	1.000000	1.62661e-07	1.000000
rad35	1.22370e-07	1.000000	1.22371e-07	1.000000
rad38	7.60325e-08	1.000000	7.60335e-08	1.000000
rad6	2.68571e-08	1.000000	2.68574e-08	1.000000
rad37	2.28105e-08	1.000000	2.28109e-08	1.000000
rad46	1.11657e-09	1.000000	1.11658e-09	1.000000
rad5	3.86244e-10	1.000000	3.86249e-10	1.000000
rad60syn	1.42219e-10	1.000000	1.42221e-10	1.000000
rad28	1.10639e-10	1.000000	1.10641e-10	1.000000
rad60anti	4.79063e-11	1.000000	4.79070e-11	1.000000
rad2	1.04761e-11	1.000000	1.04763e-11	1.000000
rad26	9.95562e-12	1.000000	9.95581e-12	1.000000
rad7	1.99533e-12	1.000000	1.99536e-12	1.000000
rad1	7.17924e-13	1.000000	7.17934e-13	1.000000
PAH3+H	6.25565e-13	1.000000	6.25574e-13	1.000000
rad10	5.50848e-13	1.000000	5.50856e-13	1.000000
rad11	4.90519e-13	1.000000	4.90526e-13	1.000000
rad59	2.00671e-13	1.000000	2.00674e-13	1.000000
rad19syn	9.19219e-14	1.000000	9.19232e-14	1.000000
rad3	6.82600e-14	1.000000	6.82610e-14	1.000000
rad4	3.52761e-14	1.000000	3.52766e-14	1.000000
rad50	2.19997e-14	1.000000	2.20000e-14	1.000000
rad13	1.13049e-14	1.000000	1.13051e-14	1.000000
rad54	1.36984e-15	1.000000	1.36986e-15	1.000000
PAH10+CH3	9.35770e-16	1.000000	9.35783e-16	1.000000
rad14	2.60227e-16	1.000000	2.60230e-16	1.000000
rad43	2.25403e-16	1.000000	2.25407e-16	1.000000
rad25	1.40852e-16	1.000000	1.40854e-16	1.000000
rad62	4.46216e-17	1.000000	4.46221e-17	1.000000
rad27	2.83410e-17	1.000000	2.83414e-17	1.000000
rad33	2.18281e-17	1.000000	2.18284e-17	1.000000
rad52	3.57561e-18	1.000000	3.57567e-18	1.000000
PhcycC3H3_A+H	1.39646e-18	1.000000	1.39648e-18	1.000000
rad70	9.49261e-19	1.000000	9.49274e-19	1.000000
rad55	4.19543e-19	1.000000	4.19549e-19	1.000000
rad51	5.58837e-20	1.000000	5.58844e-20	1.000000
PAH1+H	2.22714e-20	1.000000	2.22717e-20	1.000000
rad31	8.03198e-21	1.000000	8.03209e-21	1.000000
rad34	1.09604e-21	1.000000	1.09605e-21	1.000000
rad58	1.01532e-21	1.000000	1.01534e-21	1.000000
rad65	3.46709e-22	1.000000	3.46714e-22	1.000000
rad20	1.74510e-22	1.000000	1.74512e-22	1.000000
rad21	1.35966e-22	1.000000	1.35968e-22	1.000000
rad23	2.09810e-23	1.000000	2.09813e-23	1.000000
rad42	1.39289e-23	1.000000	1.39291e-23	1.000000
rad41	3.90332e-24	1.000000	3.90337e-24	1.000000
rad18	6.38909e-25	1.000000	6.38918e-25	1.000000
rad45	1.40695e-25	1.000000	1.40697e-25	1.000000
rad22	1.30591e-25	1.000000	1.30593e-25	1.000000
rad36	8.81549e-27	1.000000	8.81561e-27	1.000000
rad24	6.07798e-29	1.000000	6.07807e-29	1.000000
rad47	3.66228e-33	1.000000	3.66232e-33	1.000000

0.100000000E-04 Pa, 220.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	4.29529e-17	(1.00)	4.29521e-17	(1.00)
Formation of rad11	3.53712e-17	(0.823)	3.53705e-17	(0.823)
Formation of rad6	6.75433e-18	(0.157)	6.75421e-18	(0.157)
H-abstraction	8.27372e-19	(0.0193)	8.27372e-19	(0.0193)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.950167	0.950167	0.950184	0.950184
Benzene+2-propynyl	0.0192623	0.969429	0.0192627	0.969447
C2H2+PhCH2	0.0163994	0.985829	0.0163997	0.985847
PhCCH+CH3	0.00739292	0.993222	0.00739305	0.993240
PhCHCCH2+H	0.00390074	0.997122	0.00390080	0.997141
PhCCCH3+H	0.00253550	0.999658	0.00253554	0.999676
Ph+MeAc	0.000245569	0.999904	0.000245573	0.999922
rad8	2.98727e-05	0.999933	2.98733e-05	0.999952
rad9	2.46639e-05	0.999958	2.46643e-05	0.999976
Phenyl+Allene	1.78940e-05	0.999976	0.00000	0.999976
PAH7+H	1.68054e-05	0.999993	1.68057e-05	0.999993
rad39	3.37845e-06	0.999996	3.37850e-06	0.999996
rad12	1.68697e-06	0.999998	1.68700e-06	0.999998
rad30	1.18960e-06	0.999999	1.18961e-06	0.999999
PAH9+H	2.90445e-07	0.999999	2.90451e-07	1.000000
rad15	2.68929e-07	1.000000	2.68934e-07	1.000000
PhCH2CCH+H	2.52026e-07	1.000000	2.52031e-07	1.000000
rad35	1.32525e-07	1.000000	1.32528e-07	1.000000
rad38	8.40281e-08	1.000000	8.40297e-08	1.000000
rad37	3.12942e-08	1.000000	3.12947e-08	1.000000
rad6	2.06735e-08	1.000000	2.06738e-08	1.000000
rad46	1.31247e-09	1.000000	1.31249e-09	1.000000
rad5	6.13906e-10	1.000000	6.13916e-10	1.000000
rad60syn	1.79574e-10	1.000000	1.79577e-10	1.000000
rad28	8.69295e-11	1.000000	8.69310e-11	1.000000
rad60anti	6.20211e-11	1.000000	6.20222e-11	1.000000
rad2	8.21942e-12	1.000000	8.21956e-12	1.000000
rad26	7.88731e-12	1.000000	7.88745e-12	1.000000
rad7	1.53949e-12	1.000000	1.53952e-12	1.000000
PAH3+H	1.12246e-12	1.000000	1.12248e-12	1.000000
rad1	5.68437e-13	1.000000	5.68447e-13	1.000000
rad10	4.33047e-13	1.000000	4.33054e-13	1.000000
rad11	3.78649e-13	1.000000	3.78656e-13	1.000000
rad59	3.50224e-13	1.000000	3.50230e-13	1.000000
rad19syn	2.39048e-13	1.000000	2.39052e-13	1.000000
rad3	5.35544e-14	1.000000	5.35552e-14	1.000000
rad50	3.97417e-14	1.000000	3.97424e-14	1.000000
rad4	2.77483e-14	1.000000	2.77488e-14	1.000000
rad13	8.73724e-15	1.000000	8.73739e-15	1.000000
rad54	4.20819e-15	1.000000	4.20827e-15	1.000000
PAH10+CH3	2.86431e-15	1.000000	2.86436e-15	1.000000
rad43	6.85825e-16	1.000000	6.85836e-16	1.000000
rad14	2.19880e-16	1.000000	2.19884e-16	1.000000
rad62	1.50544e-16	1.000000	1.50547e-16	1.000000
rad25	1.19881e-16	1.000000	1.19883e-16	1.000000
rad27	2.36682e-17	1.000000	2.36686e-17	1.000000
rad33	1.69063e-17	1.000000	1.69066e-17	1.000000
rad52	9.36503e-18	1.000000	9.36520e-18	1.000000
PhcycC3H3_A+H	6.23495e-18	1.000000	6.23507e-18	1.000000
rad70	4.03521e-18	1.000000	4.03527e-18	1.000000
rad55	1.81226e-18	1.000000	1.81228e-18	1.000000
rad51	1.98104e-19	1.000000	1.98108e-19	1.000000
PAH1+H	1.16258e-19	1.000000	1.16260e-19	1.000000
rad31	1.02454e-20	1.000000	1.02455e-20	1.000000
rad34	5.98210e-21	1.000000	5.98220e-21	1.000000
rad58	4.64420e-21	1.000000	4.64428e-21	1.000000
rad65	1.42036e-21	1.000000	1.42039e-21	1.000000
rad20	1.51744e-22	1.000000	1.51747e-22	1.000000
rad21	1.19083e-22	1.000000	1.19085e-22	1.000000
rad42	8.43146e-23	1.000000	8.43160e-23	1.000000
rad23	3.00251e-23	1.000000	3.00257e-23	1.000000
rad41	2.40056e-23	1.000000	2.40061e-23	1.000000
rad18	5.39327e-25	1.000000	5.39337e-25	1.000000
rad45	2.04710e-25	1.000000	2.04714e-25	1.000000
rad22	1.07172e-25	1.000000	1.07174e-25	1.000000
rad36	1.28649e-26	1.000000	1.28652e-26	1.000000
rad24	6.72020e-29	1.000000	6.72032e-29	1.000000
rad47	1.52504e-32	1.000000	1.52506e-32	1.000000

0.100000000E-04 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	6.25016e-17	(1.00)	6.25002e-17	(1.00)
Formation of rad11	5.06355e-17	(0.810)	5.06343e-17	(0.810)
Formation of rad6	1.04318e-17	(0.167)	1.04316e-17	(0.167)
H-abstraction	1.43428e-18	(0.0229)	1.43428e-18	(0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.944533	0.944533	0.944555	0.944555
Benzene+2-propynyl	0.0229478	0.967481	0.0229483	0.967503
C2H2+PhCH2	0.0172546	0.984735	0.0172550	0.984758
PhCCH+CH3	0.00798461	0.992720	0.00798479	0.992743
PhCHCCH2+H	0.00416655	0.996887	0.00416665	0.996910
PhCCCH3+H	0.00271342	0.999600	0.00271348	0.999623
Ph+MeAc	0.000288540	0.999889	0.000288547	0.999912
rad8	3.26382e-05	0.999921	3.26390e-05	0.999944
rad9	2.80791e-05	0.999949	2.80797e-05	0.999972
Phenyl+Allene	2.29430e-05	0.999972	0.000000	0.999972
PAH7+H	1.93764e-05	0.999992	1.93768e-05	0.999992
rad39	3.99635e-06	0.999996	3.99643e-06	0.999996
rad12	1.89394e-06	0.999997	1.89398e-06	0.999998
rad30	1.28169e-06	0.999999	1.28172e-06	0.999999
PhCH2CCH+H	3.81622e-07	0.999999	3.81631e-07	0.999999
PAH9+H	3.18926e-07	0.999999	3.18934e-07	1.000000
rad15	2.94648e-07	1.000000	2.94654e-07	1.000000
rad35	1.43816e-07	1.000000	1.43820e-07	1.000000
rad38	9.30943e-08	1.000000	9.30964e-08	1.000000
rad37	4.19286e-08	1.000000	4.19296e-08	1.000000
rad6	1.59865e-08	1.000000	1.59869e-08	1.000000
rad46	1.54684e-09	1.000000	1.54688e-09	1.000000
rad5	9.45645e-10	1.000000	9.45666e-10	1.000000
rad60syn	2.26189e-10	1.000000	2.26193e-10	1.000000
rad60anti	7.99350e-11	1.000000	7.99368e-11	1.000000
rad28	6.85216e-11	1.000000	6.85232e-11	1.000000
rad2	6.51888e-12	1.000000	6.51904e-12	1.000000
rad26	6.27250e-12	1.000000	6.27264e-12	1.000000
PAH3+H	1.94614e-12	1.000000	1.94618e-12	1.000000
rad7	1.19332e-12	1.000000	1.19335e-12	1.000000
rad59	5.91450e-13	1.000000	5.91463e-13	1.000000
rad19syn	5.76013e-13	1.000000	5.76027e-13	1.000000
rad1	4.55310e-13	1.000000	4.55321e-13	1.000000
rad10	3.44315e-13	1.000000	3.44323e-13	1.000000
rad11	2.93662e-13	1.000000	2.93669e-13	1.000000
rad50	6.96843e-14	1.000000	6.96860e-14	1.000000
rad3	4.25369e-14	1.000000	4.25380e-14	1.000000
rad4	2.21021e-14	1.000000	2.21027e-14	1.000000
rad54	1.17975e-14	1.000000	1.17978e-14	1.000000
PAH10+CH3	7.98644e-15	1.000000	7.98663e-15	1.000000
rad13	6.78474e-15	1.000000	6.78489e-15	1.000000
rad43	1.89878e-15	1.000000	1.89882e-15	1.000000
rad62	4.58136e-16	1.000000	4.58146e-16	1.000000
rad14	1.86268e-16	1.000000	1.86272e-16	1.000000
rad25	1.02345e-16	1.000000	1.02347e-16	1.000000
PhcycC3H3_A+H	2.44414e-17	1.000000	2.44419e-17	1.000000
rad52	2.28776e-17	1.000000	2.28782e-17	1.000000
rad27	1.98874e-17	1.000000	1.98879e-17	1.000000
rad70	1.51218e-17	1.000000	1.51221e-17	1.000000
rad33	1.31582e-17	1.000000	1.31584e-17	1.000000
rad55	6.89268e-18	1.000000	6.89285e-18	1.000000
rad51	6.35754e-19	1.000000	6.35768e-19	1.000000
PAH1+H	5.21359e-19	1.000000	5.21370e-19	1.000000
rad34	2.78857e-20	1.000000	2.78863e-20	1.000000
rad58	1.86121e-20	1.000000	1.86125e-20	1.000000
rad31	1.33932e-20	1.000000	1.33935e-20	1.000000
rad65	5.17407e-21	1.000000	5.17418e-21	1.000000
rad42	4.29485e-22	1.000000	4.29494e-22	1.000000
rad20	1.33614e-22	1.000000	1.33618e-22	1.000000
rad41	1.23969e-22	1.000000	1.23972e-22	1.000000
rad21	1.05691e-22	1.000000	1.05694e-22	1.000000
rad23	4.72921e-23	1.000000	4.72932e-23	1.000000
rad18	4.58770e-25	1.000000	4.58780e-25	1.000000
rad45	3.29222e-25	1.000000	3.29229e-25	1.000000
rad22	8.91155e-26	1.000000	8.91176e-26	1.000000
rad36	2.07616e-26	1.000000	2.07621e-26	1.000000
rad24	7.56323e-29	1.000000	7.56341e-29	1.000000
rad47	5.52641e-32	1.000000	5.52654e-32	1.000000

0.100000000E-04 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	8.83273e-17 (1.00)	8.83247e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04056e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55476e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.938548	0.938548	0.938576	0.938576
Benzene+2-propynyl	0.0268483	0.965397	0.0268490	0.965425
C2H2+PhCH2	0.0181698	0.983566	0.0181703	0.983595
PhCCH+CH3	0.00861805	0.992185	0.00861829	0.992213
PhCHCCH2+H	0.00444825	0.996633	0.00444838	0.996662
PhCCCH3+H	0.00290072	0.999534	0.00290081	0.999563
Ph+MeAc	0.000337577	0.999871	0.000337587	0.999900
rad8	3.56101e-05	0.999907	3.56111e-05	0.999936
rad9	3.19447e-05	0.999939	3.19456e-05	0.999968
Phenyl+Allene	2.92466e-05	0.999968	0.00000	0.999968
PAH7+H	2.23309e-05	0.999990	2.23316e-05	0.999990
rad39	4.71744e-06	0.999995	4.71757e-06	0.999995
rad12	2.12114e-06	0.999997	2.12121e-06	0.999997
rad30	1.38261e-06	0.999998	1.38264e-06	0.999998
PhCH2CCH+H	5.66147e-07	0.999999	5.66163e-07	0.999999
PAH9+H	3.50982e-07	0.999999	3.50992e-07	0.999999
rad15	3.23254e-07	1.000000	3.23263e-07	1.000000
rad35	1.56373e-07	1.000000	1.56378e-07	1.000000
rad38	1.03378e-07	1.000000	1.03381e-07	1.000000
rad37	5.50448e-08	1.000000	5.50464e-08	1.000000
rad6	1.24134e-08	1.000000	1.24137e-08	1.000000
rad46	1.82726e-09	1.000000	1.82731e-09	1.000000
rad5	1.41671e-09	1.000000	1.41675e-09	1.000000
rad60syn	2.84165e-10	1.000000	2.84173e-10	1.000000
rad60anti	1.02573e-10	1.000000	1.02576e-10	1.000000
rad28	5.41658e-11	1.000000	5.41674e-11	1.000000
rad2	5.23401e-12	1.000000	5.23416e-12	1.000000
rad26	5.00582e-12	1.000000	5.00597e-12	1.000000
PAH3+H	3.27442e-12	1.000000	3.27453e-12	1.000000
rad19syn	1.29866e-12	1.000000	1.29870e-12	1.000000
rad59	9.70552e-13	1.000000	9.70581e-13	1.000000
rad7	9.28895e-13	1.000000	9.28922e-13	1.000000
rad1	3.69495e-13	1.000000	3.69506e-13	1.000000
rad10	2.77246e-13	1.000000	2.77255e-13	1.000000
rad11	2.28715e-13	1.000000	2.28722e-13	1.000000
rad50	1.19015e-13	1.000000	1.19019e-13	1.000000
rad3	3.41884e-14	1.000000	3.41894e-14	1.000000
rad54	3.05312e-14	1.000000	3.05320e-14	1.000000
PAH10+CH3	2.05197e-14	1.000000	2.05203e-14	1.000000
rad4	1.78188e-14	1.000000	1.78193e-14	1.000000
rad13	5.29126e-15	1.000000	5.29141e-15	1.000000
rad43	4.83957e-15	1.000000	4.83970e-15	1.000000
rad62	1.27359e-15	1.000000	1.27363e-15	1.000000
rad14	1.58168e-16	1.000000	1.58172e-16	1.000000
rad25	8.76213e-17	1.000000	8.76239e-17	1.000000
PhcycC3H3_A+H	8.53899e-17	1.000000	8.53924e-17	1.000000
rad52	5.25968e-17	1.000000	5.25983e-17	1.000000
rad70	5.07084e-17	1.000000	5.07099e-17	1.000000
rad55	2.34296e-17	1.000000	2.34303e-17	1.000000
rad27	1.68073e-17	1.000000	1.68078e-17	1.000000
rad33	1.02867e-17	1.000000	1.02870e-17	1.000000
PAH1+H	2.04478e-18	1.000000	2.04483e-18	1.000000
rad51	1.86864e-18	1.000000	1.86869e-18	1.000000
rad34	1.13109e-19	1.000000	1.13112e-19	1.000000
rad58	6.63431e-20	1.000000	6.63451e-20	1.000000
rad31	1.78978e-20	1.000000	1.78984e-20	1.000000
rad65	1.69867e-20	1.000000	1.69871e-20	1.000000
rad42	1.87990e-21	1.000000	1.87994e-21	1.000000
rad41	5.49124e-22	1.000000	5.49140e-22	1.000000
rad20	1.19159e-22	1.000000	1.19161e-22	1.000000
rad21	9.50805e-23	1.000000	9.50834e-23	1.000000
rad23	8.09951e-23	1.000000	8.09975e-23	1.000000
rad45	5.78860e-25	1.000000	5.78876e-25	1.000000
rad18	3.93126e-25	1.000000	3.93138e-25	1.000000
rad22	7.55219e-26	1.000000	7.55241e-26	1.000000
rad36	3.66495e-26	1.000000	3.66505e-26	1.000000
rad24	8.66000e-29	1.000000	8.66025e-29	1.000000
rad47	1.77437e-31	1.000000	1.77442e-31	1.000000

0.100000000E-04 Pa, 250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.21641e-16 (1.00)	1.21637e-16 (1.00)
Formation of rad11	9.54219e-17 (0.784)	9.54182e-17 (0.784)
Formation of rad6	2.24583e-17 (0.185)	2.24574e-17 (0.185)
H-abstraction	3.76121e-18 (0.0309)	3.76121e-18 (0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.932252	0.932252	0.932286	0.932286
Benzene+2-propynyl	0.0309205	0.963172	0.0309216	0.963208
C2H2+PhCH2	0.0191484	0.982321	0.0191491	0.982357
PhCCH+CH3	0.00929415	0.991615	0.00929450	0.991652
PhCHCCH2+H	0.00474593	0.996361	0.00474610	0.996398
PhCCCH3+H	0.00309713	0.999458	0.00309724	0.999495
Ph+MeAc	0.000393214	0.999851	0.000393229	0.999888
rad8	3.87909e-05	0.999890	3.87923e-05	0.999927
Phenyl+Allene	3.70732e-05	0.999927	0.00000	0.999927
rad9	3.63102e-05	0.999963	3.63115e-05	0.999963
PAH7+H	2.57193e-05	0.999989	2.57202e-05	0.999989
rad39	5.55632e-06	0.999994	5.55653e-06	0.999995
rad12	2.36943e-06	0.999997	2.36951e-06	0.999997
rad30	1.49312e-06	0.999998	1.49318e-06	0.999998
PhCH2CCH+H	8.24576e-07	0.999999	8.24606e-07	0.999999
PAH9+H	3.87066e-07	0.999999	3.87081e-07	1.000000
rad15	3.55048e-07	1.000000	3.55062e-07	1.000000
rad35	1.70337e-07	1.000000	1.70344e-07	1.00000
rad38	1.15045e-07	1.00000	1.15049e-07	1.00000
rad37	7.09980e-08	1.00000	7.10006e-08	1.00000
rad6	9.67541e-09	1.00000	9.67576e-09	1.00000
rad46	2.16267e-09	1.00000	2.16274e-09	1.00000
rad5	2.07035e-09	1.00000	2.07043e-09	1.00000
rad60syn	3.56018e-10	1.00000	3.56031e-10	1.00000
rad60anti	1.31053e-10	1.00000	1.31058e-10	1.00000
rad28	4.29263e-11	1.00000	4.29279e-11	1.00000
PAH3+H	5.36486e-12	1.00000	5.36506e-12	1.00000
rad2	4.27356e-12	1.00000	4.27372e-12	1.00000
rad26	4.00813e-12	1.00000	4.00828e-12	1.00000
rad19syn	2.76166e-12	1.00000	2.76177e-12	1.00000
rad59	1.55280e-12	1.00000	1.55286e-12	1.00000
rad7	7.25859e-13	1.00000	7.25885e-13	1.00000
rad1	3.05191e-13	1.00000	3.05203e-13	1.00000
rad10	2.26887e-13	1.00000	2.26895e-13	1.00000
rad50	1.98553e-13	1.00000	1.98560e-13	1.00000
rad11	1.78826e-13	1.00000	1.78833e-13	1.00000
rad54	7.36282e-14	1.00000	7.36311e-14	1.00000
PAH10+CH3	4.90469e-14	1.00000	4.90486e-14	1.00000
rad3	2.79353e-14	1.00000	2.79363e-14	1.00000
rad4	1.46082e-14	1.00000	1.46088e-14	1.00000
rad43	1.14660e-14	1.00000	1.14664e-14	1.00000
rad13	4.14289e-15	1.00000	4.14304e-15	1.00000
rad62	3.26822e-15	1.00000	3.26834e-15	1.00000
PhcycC3H3_A+H	2.69199e-16	1.00000	2.69209e-16	1.00000
rad70	1.54045e-16	1.00000	1.54051e-16	1.00000
rad14	1.34606e-16	1.00000	1.34612e-16	1.00000
rad52	1.14630e-16	1.00000	1.14633e-16	1.00000
rad25	7.52164e-17	1.00000	7.52192e-17	1.00000
rad55	7.20605e-17	1.00000	7.20632e-17	1.00000
rad27	1.42829e-17	1.00000	1.42834e-17	1.00000
rad33	8.07515e-18	1.00000	8.07545e-18	1.00000
PAH1+H	7.11973e-18	1.00000	7.12000e-18	1.00000
rad51	5.07765e-18	1.00000	5.07784e-18	1.00000
rad34	4.05527e-19	1.00000	4.05542e-19	1.00000
rad58	2.12984e-19	1.00000	2.12993e-19	1.00000
rad65	5.08164e-20	1.00000	5.08183e-20	1.00000
rad31	2.43960e-20	1.00000	2.43969e-20	1.00000
rad42	7.19648e-21	1.00000	7.19675e-21	1.00000
rad41	2.12406e-21	1.00000	2.12413e-21	1.00000
rad23	1.49166e-22	1.00000	1.49171e-22	1.00000
rad20	1.07656e-22	1.00000	1.07661e-22	1.00000
rad21	8.67263e-23	1.00000	8.67295e-23	1.00000
rad45	1.10085e-24	1.00000	1.10090e-24	1.00000
rad18	3.39289e-25	1.00000	3.39302e-25	1.00000
rad36	7.00131e-26	1.00000	7.00157e-26	1.00000
rad22	6.61083e-26	1.00000	6.61107e-26	1.00000
rad24	1.00845e-28	1.00000	1.00849e-28	1.00000
rad47	5.12431e-31	1.00000	5.12450e-31	1.00000

0.100000000E-04 Pa, 260.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	1.63720e-16	(1.00)	1.63713e-16	(1.00)
Formation of rad11	1.26419e-16	(0.772)	1.26412e-16	(0.772)
Formation of rad6	3.15515e-17	(0.193)	3.15499e-17	(0.193)
H-abstraction	5.75028e-18	(0.0351)	5.75028e-18	(0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.925679	0.925679	0.925722	0.925722
Benzene+2-propynyl	0.0351226	0.960802	0.0351242	0.960846
C2H2+PhCH2	0.0201940	0.980996	0.0201949	0.981041
PhCCH+CH3	0.0100136	0.991009	0.0100141	0.991055
PhCHCCH2+H	0.00505961	0.996069	0.00505984	0.996115
PhCCCH3+H	0.00330223	0.999371	0.00330238	0.999418
Ph+MeAc	0.000455976	0.999827	0.000455997	0.999874
Phenyl+Allene	4.67380e-05	0.999874	0.000000	0.999874
rad8	4.21815e-05	0.999916	4.21834e-05	0.999916
rad9	4.12283e-05	0.999957	4.12303e-05	0.999957
PAH7+H	2.95968e-05	0.999987	2.95982e-05	0.999987
rad39	6.52910e-06	0.999994	6.52940e-06	0.999993
rad12	2.63947e-06	0.999996	2.63959e-06	0.999996
rad30	1.61403e-06	0.999998	1.61411e-06	0.999997
PhCH2CCH+H	1.18111e-06	0.999999	1.18116e-06	0.999999
PAH9+H	4.27688e-07	0.999999	4.27707e-07	0.999999
rad15	3.90352e-07	1.000000	3.90370e-07	0.999999
rad35	1.85866e-07	1.000000	1.85875e-07	1.000000
rad38	1.28280e-07	1.000000	1.28287e-07	1.000000
rad37	9.01666e-08	1.000000	9.01709e-08	1.000000
rad6	7.56787e-09	1.000000	7.56823e-09	1.000000
rad5	2.95864e-09	1.000000	2.95878e-09	1.000000
rad46	2.56363e-09	1.000000	2.56375e-09	1.000000
rad60syn	4.44734e-10	1.000000	4.44755e-10	1.000000
rad60anti	1.66722e-10	1.000000	1.66730e-10	1.000000
rad28	3.40966e-11	1.000000	3.40982e-11	1.000000
PAH3+H	8.58343e-12	1.000000	8.58383e-12	1.000000
rad19syn	5.57628e-12	1.000000	5.57654e-12	1.000000
rad2	3.55649e-12	1.000000	3.55666e-12	1.000000
rad26	3.21952e-12	1.000000	3.21967e-12	1.000000
rad59	2.42884e-12	1.000000	2.42895e-12	1.000000
rad7	5.69244e-13	1.000000	5.69271e-13	1.000000
rad50	3.24283e-13	1.000000	3.24298e-13	1.000000
rad1	2.57157e-13	1.000000	2.57169e-13	1.000000
rad10	1.89305e-13	1.000000	1.89314e-13	1.000000
rad54	1.66740e-13	1.000000	1.66749e-13	1.000000
rad11	1.40327e-13	1.000000	1.40333e-13	1.000000
PAH10+CH3	1.09926e-13	1.000000	1.09931e-13	1.000000
rad43	2.54560e-14	1.000000	2.54572e-14	1.000000
rad3	2.32887e-14	1.000000	2.32897e-14	1.000000
rad4	1.22222e-14	1.000000	1.22228e-14	1.000000
rad62	7.80898e-15	1.000000	7.80934e-15	1.000000
rad13	3.25576e-15	1.000000	3.25591e-15	1.000000
PhcycC3H3_A+H	7.73844e-16	1.000000	7.73881e-16	1.000000
rad70	4.28315e-16	1.000000	4.28335e-16	1.000000
rad52	2.38188e-16	1.000000	2.38199e-16	1.000000
rad55	2.02605e-16	1.000000	2.02614e-16	1.000000
rad14	1.14798e-16	1.000000	1.14804e-16	1.000000
rad25	6.47331e-17	1.000000	6.47361e-17	1.000000
PAH1+H	2.22904e-17	1.000000	2.22914e-17	1.000000
rad51	1.28523e-17	1.000000	1.28529e-17	1.000000
rad27	1.22026e-17	1.000000	1.22032e-17	1.000000
rad33	6.36370e-18	1.000000	6.36400e-18	1.000000
rad34	1.30239e-18	1.000000	1.30245e-18	1.000000
rad58	6.22352e-19	1.000000	6.22381e-19	1.000000
rad65	1.39789e-19	1.000000	1.39795e-19	1.000000
rad31	3.38517e-20	1.000000	3.38532e-20	1.000000
rad42	2.44582e-20	1.000000	2.44593e-20	1.000000
rad41	7.28482e-21	1.000000	7.28516e-21	1.000000
rad23	2.92648e-22	1.000000	2.92661e-22	1.000000
rad20	9.85690e-23	1.000000	9.85736e-23	1.000000
rad21	8.02366e-23	1.000000	8.02403e-23	1.000000
rad45	2.24681e-24	1.000000	2.24692e-24	1.000000
rad18	2.94885e-25	1.000000	2.94899e-25	1.000000
rad36	1.43620e-25	1.000000	1.43627e-25	1.000000
rad22	6.14644e-26	1.000000	6.14673e-26	1.000000
rad24	1.19406e-28	1.000000	1.19411e-28	1.000000
rad47	1.34823e-30	1.000000	1.34829e-30	1.000000

0.100000000E-04 Pa, 270.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	2.15887e-16	(1.00)	2.15874e-16	(1.00)
Formation of rad11	1.64133e-16	(0.760)	1.64123e-16	(0.760)
Formation of rad6	4.32452e-17	(0.200)	4.32425e-17	(0.200)
H-abstraction	8.50919e-18	(0.0394)	8.50919e-18	(0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.918867	0.918867	0.918920	0.918920
Benzene+2-propynyl	0.0394150	0.958282	0.0394174	0.958338
C2H2+PhCH2	0.0213101	0.979592	0.0213113	0.979649
PhCCH+CH3	0.0107767	0.990369	0.0107774	0.990426
PhCHCCH2+H	0.00538918	0.995758	0.00538949	0.995816
PhCCCH3+H	0.00351550	0.999273	0.00351571	0.999331
Ph+MeAc	0.000526367	0.999800	0.000526398	0.999858
Phenyl+Allene	5.86083e-05	0.999858	0.000000	0.999858
rad9	4.67561e-05	0.999905	4.67588e-05	0.999905
rad8	4.57804e-05	0.999951	4.57831e-05	0.999950
PAH7+H	3.40240e-05	0.999985	3.40260e-05	0.999984
rad39	7.65343e-06	0.999992	7.65388e-06	0.999992
rad12	2.93176e-06	0.999995	2.93194e-06	0.999995
rad30	1.74620e-06	0.999997	1.74630e-06	0.999997
PhCH2CCH+H	1.66619e-06	0.999999	1.66629e-06	0.999998
PAH9+H	4.73407e-07	0.999999	4.73435e-07	0.999999
rad15	4.29508e-07	1.000000	4.29533e-07	0.999999
rad35	2.03130e-07	1.000000	2.03141e-07	1.000000
rad38	1.43292e-07	1.000000	1.43302e-07	1.000000
rad37	1.12949e-07	1.000000	1.12956e-07	1.000000
rad6	5.93909e-09	1.000000	5.93944e-09	1.000000
rad5	4.14321e-09	1.000000	4.14346e-09	1.000000
rad46	3.04255e-09	1.000000	3.04272e-09	1.000000
rad60syn	5.53842e-10	1.000000	5.53875e-10	1.000000
rad60anti	2.11182e-10	1.000000	2.11195e-10	1.000000
rad28	2.71391e-11	1.000000	2.71407e-11	1.000000
PAH3+H	1.34407e-11	1.000000	1.34415e-11	1.000000
rad19syn	1.07496e-11	1.000000	1.07503e-11	1.000000
rad59	3.72234e-12	1.000000	3.72257e-12	1.000000
rad2	3.03496e-12	1.000000	3.03513e-12	1.000000
rad26	2.59419e-12	1.000000	2.59435e-12	1.000000
rad50	5.19408e-13	1.000000	5.19439e-13	1.000000
rad7	4.47943e-13	1.000000	4.47970e-13	1.000000
rad54	3.56843e-13	1.000000	3.56863e-13	1.000000
PAH10+CH3	2.32532e-13	1.000000	2.32546e-13	1.000000
rad1	2.22397e-13	1.000000	2.22409e-13	1.000000
rad10	1.61854e-13	1.000000	1.61863e-13	1.000000
rad11	1.10494e-13	1.000000	1.10501e-13	1.000000
rad43	5.33173e-14	1.000000	5.33204e-14	1.000000
rad3	1.98940e-14	1.000000	1.98952e-14	1.000000
rad62	1.74987e-14	1.000000	1.74997e-14	1.000000
rad4	1.04812e-14	1.000000	1.04819e-14	1.000000
rad13	2.56759e-15	1.000000	2.56773e-15	1.000000
PhcycC3H3_A+H	2.04645e-15	1.000000	2.04657e-15	1.000000
rad70	1.09948e-15	1.000000	1.09954e-15	1.000000
rad55	5.25291e-16	1.000000	5.25322e-16	1.000000
rad52	4.74024e-16	1.000000	4.74051e-16	1.000000
rad14	9.81084e-17	1.000000	9.81139e-17	1.000000
PAH1+H	6.34370e-17	1.000000	6.34407e-17	1.000000
rad25	5.58499e-17	1.000000	5.58532e-17	1.000000
rad51	3.04902e-17	1.000000	3.04920e-17	1.000000
rad27	1.04802e-17	1.000000	1.04808e-17	1.000000
rad33	5.03368e-18	1.000000	5.03397e-18	1.000000
rad34	3.78993e-18	1.000000	3.79016e-18	1.000000
rad58	1.67022e-18	1.000000	1.67032e-18	1.000000
rad65	3.56314e-19	1.000000	3.56335e-19	1.000000
rad42	7.47515e-20	1.000000	7.47558e-20	1.000000
rad31	4.77262e-20	1.000000	4.77290e-20	1.000000
rad41	2.24434e-20	1.000000	2.24447e-20	1.000000
rad23	6.06832e-22	1.000000	6.06867e-22	1.000000
rad20	9.14933e-23	1.000000	9.14987e-23	1.000000
rad21	7.53227e-23	1.000000	7.53272e-23	1.000000
rad45	4.88846e-24	1.000000	4.88875e-24	1.000000
rad36	3.14249e-25	1.000000	3.14267e-25	1.000000
rad18	2.58079e-25	1.000000	2.58095e-25	1.000000
rad22	6.37681e-26	1.000000	6.37718e-26	1.000000
rad24	1.43743e-28	1.000000	1.43751e-28	1.000000
rad47	3.26700e-30	1.000000	3.26718e-30	1.000000

0.100000000E-04 Pa, 280.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	2.79491e-16	(1.00)	2.79471e-16	(1.00)
Formation of rad11	2.09281e-16	(0.749)	2.09265e-16	(0.749)
Formation of rad6	5.79792e-17	(0.207)	5.79748e-17	(0.207)
H-abstraction	1.22310e-17	(0.0438)	1.22310e-17	(0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.911846	0.911846	0.911913	0.911913
Benzene+2-propynyl	0.0437616	0.955608	0.0437648	0.955678
C2H2+PhCH2	0.0225001	0.978108	0.0225017	0.978179
PhCCH+CH3	0.0115837	0.989691	0.0115845	0.989764
PhCHCCH2+H	0.00573446	0.995426	0.00573488	0.995499
PhCCCH3+H	0.00373632	0.999162	0.00373659	0.999235
Ph+MeAc	0.000604861	0.999767	0.000604905	0.999840
Phenyl+Allene	7.31093e-05	0.999840	0.000000	0.999840
rad9	5.29532e-05	0.999893	5.29572e-05	0.999893
rad8	4.95842e-05	0.999943	4.95879e-05	0.999943
PAH7+H	3.90666e-05	0.999982	3.90695e-05	0.999982
rad39	8.94856e-06	0.999991	8.94920e-06	0.999991
rad12	3.24663e-06	0.999994	3.24687e-06	0.999994
PhCH2CCH+H	2.31773e-06	0.999996	2.31790e-06	0.999996
rad30	1.89048e-06	0.999998	1.89062e-06	0.999998
PAH9+H	5.24843e-07	0.999999	5.24881e-07	0.999999
rad15	4.72881e-07	0.999999	4.72916e-07	0.999999
rad35	2.22313e-07	0.999999	2.22329e-07	0.999999
rad38	1.60312e-07	1.000000	1.60324e-07	1.000000
rad37	1.39762e-07	1.000000	1.39772e-07	1.000000
rad5	5.69578e-09	1.000000	5.69619e-09	1.000000
rad6	4.67581e-09	1.000000	4.67614e-09	1.000000
rad46	3.61388e-09	1.000000	3.61415e-09	1.000000
rad60syn	6.87474e-10	1.000000	6.87525e-10	1.000000
rad60anti	2.66333e-10	1.000000	2.66353e-10	1.000000
rad28	2.16422e-11	1.000000	2.16437e-11	1.000000
PAH3+H	2.06360e-11	1.000000	2.06376e-11	1.000000
rad19syn	1.98729e-11	1.000000	1.98744e-11	1.000000
rad59	5.59933e-12	1.000000	5.59974e-12	1.000000
rad2	2.66914e-12	1.000000	2.66933e-12	1.000000
rad26	2.09702e-12	1.000000	2.09717e-12	1.000000
rad50	8.16970e-13	1.000000	8.17030e-13	1.000000
rad54	7.25431e-13	1.000000	7.25484e-13	1.000000
PAH10+CH3	4.66800e-13	1.000000	4.66834e-13	1.000000
rad7	3.53651e-13	1.000000	3.53677e-13	1.000000
rad1	1.98411e-13	1.000000	1.98426e-13	1.000000
rad10	1.42613e-13	1.000000	1.42624e-13	1.000000
rad43	1.05948e-13	1.000000	1.05957e-13	1.000000
rad11	8.72936e-14	1.000000	8.73000e-14	1.000000
rad62	3.69966e-14	1.000000	3.69993e-14	1.000000
rad3	1.75336e-14	1.000000	1.75349e-14	1.000000
rad4	9.27633e-15	1.000000	9.27700e-15	1.000000
PhcycC3H3_A+H	5.01690e-15	1.000000	5.01727e-15	1.000000
rad70	2.62498e-15	1.000000	2.62517e-15	1.000000
rad13	2.03178e-15	1.000000	2.03192e-15	1.000000
rad55	1.26526e-15	1.000000	1.26535e-15	1.000000
rad52	9.06707e-16	1.000000	9.06774e-16	1.000000
PAH1+H	1.65664e-16	1.000000	1.65676e-16	1.000000
rad14	8.40158e-17	1.000000	8.40220e-17	1.000000
rad51	6.81440e-17	1.000000	6.81491e-17	1.000000
rad25	4.83042e-17	1.000000	4.83078e-17	1.000000
rad34	1.00922e-17	1.000000	1.00930e-17	1.000000
rad27	9.04792e-18	1.000000	9.04858e-18	1.000000
rad58	4.14898e-18	1.000000	4.14929e-18	1.000000
rad33	3.99613e-18	1.000000	3.99642e-18	1.000000
rad65	8.47078e-19	1.000000	8.47140e-19	1.000000
rad42	2.07733e-19	1.000000	2.07749e-19	1.000000
rad31	6.82380e-20	1.000000	6.82430e-20	1.000000
rad41	6.28123e-20	1.000000	6.28169e-20	1.000000
rad23	1.32073e-21	1.000000	1.32082e-21	1.000000
rad20	8.61280e-23	1.000000	8.61343e-23	1.000000
rad21	7.17759e-23	1.000000	7.17811e-23	1.000000
rad45	1.12907e-23	1.000000	1.12915e-23	1.000000
rad36	7.30366e-25	1.000000	7.30419e-25	1.000000
rad18	2.27446e-25	1.000000	2.27463e-25	1.000000
rad22	7.85071e-26	1.000000	7.85128e-26	1.000000
rad24	1.75934e-28	1.000000	1.75946e-28	1.000000
rad47	7.35913e-30	1.000000	7.35967e-30	1.000000

0.100000000E-04 Pa, 290.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	3.55893e-16 (1.00)	3.55861e-16 (1.00)
Formation of rad11	2.62555e-16 (0.738)	2.62530e-16 (0.738)
Formation of rad6	7.62093e-17 (0.214)	7.62020e-17 (0.214)
H-abstraction	1.71289e-17 (0.0481)	1.71289e-17 (0.0481)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.904648	0.904648	0.904731	0.904731
Benzene+2-propynyl	0.0481294	0.952778	0.0481337	0.952865
C2H2+PhCH2	0.0237673	0.976545	0.0237694	0.976634
PhCCH+CH3	0.0124342	0.988979	0.0124353	0.989069
PhCHCCH2+H	0.00609516	0.995074	0.00609571	0.995165
PhCCCH3+H	0.00396392	0.999038	0.00396429	0.999129
Ph+MeAc	0.000691888	0.999730	0.000691951	0.999821
Phenyl+Allene	9.07290e-05	0.999821	0.00000	0.999821
rad9	5.98835e-05	0.999881	5.98890e-05	0.999881
rad8	5.35872e-05	0.999934	5.35921e-05	0.999935
PAH7+H	4.47955e-05	0.999979	4.47996e-05	0.999979
rad39	1.04353e-05	0.999990	1.04362e-05	0.999990
rad12	3.58414e-06	0.999993	3.58446e-06	0.999993
PhCH2CCH+H	3.18219e-06	0.999996	3.18248e-06	0.999997
rad30	2.04781e-06	0.999998	2.04799e-06	0.999999
PAH9+H	5.82675e-07	0.999999	5.82728e-07	0.999999
rad15	5.20855e-07	0.999999	5.20902e-07	1.000000
rad35	2.43617e-07	1.000000	2.43639e-07	1.000000
rad38	1.79594e-07	1.000000	1.79611e-07	1.000000
rad37	1.71029e-07	1.000000	1.71045e-07	1.000000
rad5	7.69832e-09	1.000000	7.69902e-09	1.000000
rad46	4.29443e-09	1.000000	4.29482e-09	1.000000
rad6	3.69290e-09	1.000000	3.69323e-09	1.000000
rad60syn	8.50433e-10	1.000000	8.50510e-10	1.000000
rad60anti	3.34404e-10	1.000000	3.34434e-10	1.000000
rad19syn	3.53629e-11	1.000000	3.53661e-11	1.000000
PAH3+H	3.11084e-11	1.000000	3.11113e-11	1.000000
rad28	1.72890e-11	1.000000	1.72906e-11	1.000000
rad59	8.27853e-12	1.000000	8.27929e-12	1.000000
rad2	2.43092e-12	1.000000	2.43113e-12	1.000000
rad26	1.70078e-12	1.000000	1.70094e-12	1.000000
rad54	1.40687e-12	1.000000	1.40700e-12	1.000000
rad50	1.26306e-12	1.000000	1.26317e-12	1.000000
PAH10+CH3	8.93365e-13	1.000000	8.93446e-13	1.000000
rad7	2.80118e-13	1.000000	2.80144e-13	1.000000
rad43	2.00693e-13	1.000000	2.00711e-13	1.000000
rad1	1.83493e-13	1.000000	1.83510e-13	1.000000
rad10	1.30161e-13	1.000000	1.30172e-13	1.000000
rad62	7.41760e-14	1.000000	7.41827e-14	1.000000
rad11	6.91913e-14	1.000000	6.91975e-14	1.000000
rad3	1.60131e-14	1.000000	1.60146e-14	1.000000
PhcycC3H3_A+H	1.14775e-14	1.000000	1.14786e-14	1.000000
rad4	8.50997e-15	1.000000	8.51074e-15	1.000000
rad70	5.86607e-15	1.000000	5.86661e-15	1.000000
rad55	2.84962e-15	1.000000	2.84988e-15	1.000000
rad52	1.67149e-15	1.000000	1.67165e-15	1.000000
rad13	1.61321e-15	1.000000	1.61337e-15	1.000000
PAH1+H	4.00254e-16	1.000000	4.00290e-16	1.000000
rad51	1.44106e-16	1.000000	1.44118e-16	1.000000
rad14	7.20947e-17	1.000000	7.21012e-17	1.000000
rad25	4.18806e-17	1.000000	4.18844e-17	1.000000
rad34	2.48051e-17	1.000000	2.48073e-17	1.000000
rad58	9.60504e-18	1.000000	9.60595e-18	1.000000
rad27	7.85252e-18	1.000000	7.85324e-18	1.000000
rad33	3.18401e-18	1.000000	3.18430e-18	1.000000
rad65	1.88891e-18	1.000000	1.88908e-18	1.000000
rad42	5.29957e-19	1.000000	5.30005e-19	1.000000
rad41	1.61252e-19	1.000000	1.61267e-19	1.000000
rad31	9.87518e-20	1.000000	9.87609e-20	1.000000
rad23	2.99765e-21	1.000000	2.99792e-21	1.000000
rad20	8.22553e-23	1.000000	8.22628e-23	1.000000
rad21	6.94520e-23	1.000000	6.94583e-23	1.000000
rad45	2.74855e-23	1.000000	2.74880e-23	1.000000
rad36	1.79026e-24	1.000000	1.79042e-24	1.000000
rad18	2.01865e-25	1.000000	2.01883e-25	1.000000
rad22	1.18510e-25	1.000000	1.18521e-25	1.000000
rad24	2.18971e-28	1.000000	2.18991e-28	1.000000
rad47	1.55333e-29	1.000000	1.55347e-29	1.000000

0.100000000E-04 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	6.34395e-16	(1.00)	6.34337e-16	(1.00)
Formation of rad11	4.51153e-16	(0.711)	4.51110e-16	(0.711)
Formation of rad6	1.51589e-16	(0.239)	1.51574e-16	(0.239)
H-abstraction	3.16530e-17	(0.0499)	3.16530e-17	(0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891226	0.891226	0.891307	0.891307
Benzene+2-propynyl	0.0498949	0.941121	0.0498994	0.941207
C2H2+PhCH2	0.0319092	0.973030	0.0319121	0.973119
PhCCH+CH3	0.0149043	0.987935	0.0149057	0.988025
PhCHCCH2+H	0.00657666	0.994511	0.00657725	0.994602
PhCCCH3+H	0.00446845	0.998980	0.00446886	0.999071
Ph+MeAc	0.000840126	0.999820	0.000840202	0.999911
Phenyl+Allene	9.13471e-05	0.999911	0.000000	0.999911
PAH7+H	6.60473e-05	0.999977	6.60534e-05	0.999977
rad39	1.31460e-05	0.999990	1.31473e-05	0.999990
PhCH2CCH+H	5.22124e-06	0.999996	5.22171e-06	0.999995
rad30	2.21213e-06	0.999998	2.21234e-06	0.999997
PAH9+H	8.00033e-07	0.999999	8.00106e-07	0.999998
rad19anti	7.04464e-07	0.999999	7.04528e-07	0.999999
rad35	2.87115e-07	1.000000	2.87141e-07	0.999999
rad37	2.27544e-07	1.000000	2.27565e-07	1.000000
rad38	2.12968e-07	1.000000	2.12987e-07	1.000000
rad6	3.17624e-08	1.000000	3.17653e-08	1.000000
rad46	5.68721e-09	1.000000	5.68773e-09	1.000000
rad60syn	1.08207e-09	1.000000	1.08216e-09	1.000000
rad60anti	4.39236e-10	1.000000	4.39275e-10	1.000000
rad28	1.09766e-10	1.000000	1.09776e-10	1.000000
rad19syn	6.92347e-11	1.000000	6.92411e-11	1.000000
PAH3+H	6.10402e-11	1.000000	6.10458e-11	1.000000
rad2	3.00445e-11	1.000000	3.00473e-11	1.000000
rad26	1.48169e-11	1.000000	1.48182e-11	1.000000
rad59	1.31853e-11	1.000000	1.31864e-11	1.000000
rad54	3.21890e-12	1.000000	3.21920e-12	1.000000
rad7	2.82334e-12	1.000000	2.82359e-12	1.000000
rad1	2.26398e-12	1.000000	2.26418e-12	1.000000
rad50	2.22682e-12	1.000000	2.22703e-12	1.000000
PAH10+CH3	2.02587e-12	1.000000	2.02606e-12	1.000000
rad10	1.86962e-12	1.000000	1.86979e-12	1.000000
rad67	7.75555e-13	1.000000	7.75625e-13	1.000000
rad11	6.77129e-13	1.000000	6.77191e-13	1.000000
rad43	4.01328e-13	1.000000	4.01365e-13	1.000000
rad3	2.90060e-13	1.000000	2.90087e-13	1.000000
rad62	1.66583e-13	1.000000	1.66598e-13	1.000000
rad4	1.44248e-13	1.000000	1.44261e-13	1.000000
PhcycC3H3_A+H	4.89131e-14	1.000000	4.89175e-14	1.000000
rad70	1.94639e-14	1.000000	1.94657e-14	1.000000
rad13	1.62567e-14	1.000000	1.62581e-14	1.000000
rad55	8.48752e-15	1.000000	8.48829e-15	1.000000
rad52	3.84234e-15	1.000000	3.84269e-15	1.000000
PAH1+H	2.34441e-15	1.000000	2.34463e-15	1.000000
rad25	6.92452e-16	1.000000	6.92515e-16	1.000000
rad14	6.11467e-16	1.000000	6.11523e-16	1.000000
rad51	4.07407e-16	1.000000	4.07444e-16	1.000000
rad27	1.69466e-16	1.000000	1.69482e-16	1.000000
rad34	1.57782e-16	1.000000	1.57797e-16	1.000000
rad23	9.04094e-17	1.000000	9.04177e-17	1.000000
rad33	4.30611e-17	1.000000	4.30651e-17	1.000000
rad58	2.99506e-17	1.000000	2.99534e-17	1.000000
rad65	6.35787e-18	1.000000	6.35844e-18	1.000000
rad42	4.93397e-18	1.000000	4.93442e-18	1.000000
rad31	2.88995e-18	1.000000	2.89022e-18	1.000000
rad45	2.51656e-18	1.000000	2.51679e-18	1.000000
rad41	1.53085e-18	1.000000	1.53099e-18	1.000000
rad21	1.24004e-19	1.000000	1.24016e-19	1.000000
rad53	1.09682e-19	1.000000	1.09693e-19	1.000000
rad20	9.69297e-20	1.000000	9.69378e-20	1.000000
rad36	8.57732e-20	1.000000	8.57811e-20	1.000000
rad64	2.63853e-20	1.000000	2.63877e-20	1.000000
rad9	7.50853e-21	1.000000	7.50922e-21	1.000000
rad22	4.37095e-21	1.000000	4.37135e-21	1.000000
rad18	1.09525e-21	1.000000	1.09535e-21	1.000000
rad56	3.10995e-22	1.000000	3.11024e-22	1.000000
rad5	8.15926e-23	1.000000	8.16001e-23	1.000000
rad61	3.56437e-23	1.000000	3.56469e-23	1.000000
rad68syn	3.28824e-23	1.000000	3.28855e-23	1.000000
rad68anti	2.37014e-23	1.000000	2.37036e-23	1.000000
rad24	4.99058e-24	1.000000	4.99103e-24	1.000000
rad15	4.46180e-24	1.000000	4.46220e-24	1.000000

rad40syn	5.33123e-26	1.000000	5.33172e-26	1.000000
rad40anti	1.32362e-26	1.000000	1.32374e-26	1.000000
PAH8+H	1.18607e-26	1.000000	1.18618e-26	1.000000
rad73	1.00621e-26	1.000000	1.00630e-26	1.000000
rad12	1.79235e-27	1.000000	1.79252e-27	1.000000
rad71	9.35101e-29	1.000000	9.35187e-29	1.000000
rad47	2.86304e-29	1.000000	2.86330e-29	1.000000
rad72	1.61633e-38	1.000000	1.61648e-38	1.000000
rad8	1.55278e-40	1.000000	1.55291e-40	1.000000

0.100000000E-04 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.11288e-15 (1.00)	5.10968e-15 (1.00)
Formation of rad11	3.08094e-15 (0.603)	3.07881e-15 (0.603)
Formation of rad6	1.54092e-15 (0.301)	1.53985e-15 (0.301)
H-abstraction	4.91025e-16 (0.0960)	4.91025e-16 (0.0961)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.804487	0.804487	0.804992	0.804992
Benzene+2-propynyl	0.0960368	0.900524	0.0960969	0.901089
C2H2+PhCH2	0.0525410	0.953065	0.0525739	0.953662
PhCCH+CH3	0.0262528	0.979318	0.0262692	0.979932
PhCHCCH2+H	0.0106702	0.989988	0.0106769	0.990609
PhCCCH3+H	0.00676059	0.996749	0.00676483	0.997373
Ph+MeAc	0.00228507	0.999034	0.00228650	0.999660
Phenyl+Allene	0.000625749	0.999660	0.000000	0.999660
PAH7+H	0.000215665	0.999875	0.000215800	0.999876
PhCH2CCH+H	6.37918e-05	0.999939	6.38316e-05	0.999940
rad39	4.88381e-05	0.999988	4.88686e-05	0.999988
rad30	4.71364e-06	0.999993	4.71659e-06	0.999993
rad19anti	2.55279e-06	0.999995	2.55439e-06	0.999996
PAH9+H	2.27168e-06	0.999997	2.27311e-06	0.999998
rad37	9.72212e-07	0.999998	9.72826e-07	0.999999
rad35	7.27584e-07	0.999999	7.28039e-07	1.000000
rad38	6.64238e-07	1.000000	6.64654e-07	1.000000
rad46	2.95923e-08	1.000000	2.96109e-08	1.000000
rad60syn	6.77125e-09	1.000000	6.77549e-09	1.000000
rad6	4.76235e-09	1.000000	4.76532e-09	1.000000
rad19syn	4.62789e-09	1.000000	4.63079e-09	1.000000
rad60anti	3.07478e-09	1.000000	3.07671e-09	1.000000
PAH3+H	1.45799e-09	1.000000	1.45891e-09	1.000000
rad54	4.18669e-10	1.000000	4.18931e-10	1.000000
rad59	2.84710e-10	1.000000	2.84889e-10	1.000000
PAH10+CH3	1.98074e-10	1.000000	1.98198e-10	1.000000
rad50	7.81203e-11	1.000000	7.81692e-11	1.000000
rad2	6.91884e-11	1.000000	6.92317e-11	1.000000
rad43	3.26732e-11	1.000000	3.26936e-11	1.000000
rad67	2.48951e-11	1.000000	2.49108e-11	1.000000
PhcycC3H3_A+H	2.37988e-11	1.000000	2.38137e-11	1.000000
rad62	2.26679e-11	1.000000	2.26821e-11	1.000000
rad28	1.66664e-11	1.000000	1.66768e-11	1.000000
rad70	7.63979e-12	1.000000	7.64458e-12	1.000000
rad1	6.43913e-12	1.000000	6.44316e-12	1.000000
rad10	4.18615e-12	1.000000	4.18878e-12	1.000000
rad55	3.50822e-12	1.000000	3.51042e-12	1.000000
rad26	2.61440e-12	1.000000	2.61603e-12	1.000000
PAH1+H	2.19400e-12	1.000000	2.19537e-12	1.000000
rad3	1.12547e-12	1.000000	1.12617e-12	1.000000
rad4	5.92801e-13	1.000000	5.93172e-13	1.000000
rad52	4.56316e-13	1.000000	4.56602e-13	1.000000
rad7	4.46724e-13	1.000000	4.47004e-13	1.000000
rad34	1.75088e-13	1.000000	1.75198e-13	1.000000
rad51	1.36997e-13	1.000000	1.37083e-13	1.000000
rad11	1.10517e-13	1.000000	1.10585e-13	1.000000
rad23	1.06268e-13	1.000000	1.06335e-13	1.000000
rad58	1.74185e-14	1.000000	1.74293e-14	1.000000
rad45	1.05177e-14	1.000000	1.05243e-14	1.000000
rad42	7.28195e-15	1.000000	7.28651e-15	1.000000
rad65	3.20498e-15	1.000000	3.20698e-15	1.000000
rad13	2.72774e-15	1.000000	2.72944e-15	1.000000
rad41	2.20567e-15	1.000000	2.20705e-15	1.000000
rad53	9.04225e-16	1.000000	9.04789e-16	1.000000
rad36	4.05533e-16	1.000000	4.05787e-16	1.000000
rad64	3.15111e-16	1.000000	3.15309e-16	1.000000
rad25	2.32355e-16	1.000000	2.32500e-16	1.000000
rad14	1.88185e-16	1.000000	1.88303e-16	1.000000
rad27	6.46682e-17	1.000000	6.47087e-17	1.000000

rad31	4.49851e-17	1.000000	4.50133e-17	1.00000
rad56	1.60193e-17	1.000000	1.60294e-17	1.00000
rad33	1.20337e-17	1.000000	1.20413e-17	1.00000
rad68syn	1.85188e-18	1.000000	1.85304e-18	1.00000
rad68anti	1.33289e-18	1.000000	1.33373e-18	1.00000
rad22	1.24148e-18	1.000000	1.24225e-18	1.00000
rad61	9.28162e-19	1.000000	9.28742e-19	1.00000
rad21	2.98644e-19	1.000000	2.98830e-19	1.00000
rad20	1.92626e-19	1.000000	1.92746e-19	1.00000
rad9	8.82914e-20	1.000000	8.83466e-20	1.00000
rad40syn	1.44547e-20	1.000000	1.44638e-20	1.00000
PAH8+H	8.90806e-21	1.000000	8.91363e-21	1.00000
rad40anti	3.67532e-21	1.000000	3.67761e-21	1.00000
rad73	2.38404e-21	1.000000	2.38554e-21	1.00000
rad18	9.49631e-22	1.000000	9.50228e-22	1.00000
rad24	1.03728e-22	1.000000	1.03793e-22	1.00000
rad5	1.00557e-22	1.000000	1.00620e-22	1.00000
rad71	9.37048e-23	1.000000	9.37637e-23	1.00000
rad15	5.54674e-23	1.000000	5.55021e-23	1.00000
rad12	1.78142e-25	1.000000	1.78253e-25	1.00000
rad47	7.50666e-27	1.000000	7.51136e-27	1.00000
rad72	2.44375e-28	1.000000	2.44528e-28	1.00000
rad8	4.41170e-38	1.000000	4.41446e-38	1.00000

0.100000000E-04 Pa, 500.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.11551e-14	(1.00)	2.10968e-14	(1.00)
Formation of rad11	1.10850e-14	(0.524)	1.10494e-14	(0.524)
Formation of rad6	7.08033e-15	(0.335)	7.05760e-15	(0.335)
H-abstraction	2.98976e-15	(0.141)	2.98976e-15	(0.142)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.706763	0.706763	0.708717	0.708717
Benzene+2-propynyl	0.141326	0.848088	0.141717	0.850434
C2H2+PhCH2	0.0811033	0.929192	0.0813276	0.931761
PhCCH+CH3	0.0389494	0.968141	0.0390570	0.970818
PhCHCCH2+H	0.0153920	0.983533	0.0154345	0.986253
PhCCCH3+H	0.00823922	0.991772	0.00826200	0.994515
Ph+MeAc	0.00432836	0.996101	0.00434033	0.998855
Phenyl+Allene	0.00275755	0.998858	0.00000	0.998855
PAH7+H	0.000574791	0.999433	0.000576380	0.999432
PhCH2CCH+H	0.000399545	0.999833	0.000400650	0.999832
rad39	0.000137924	0.999971	0.000138306	0.999971
rad30	9.14617e-06	0.999980	9.17153e-06	0.999980
rad19anti	7.87871e-06	0.999988	7.90049e-06	0.999988
PAH9+H	6.12732e-06	0.999994	6.14426e-06	0.999994
rad37	2.41828e-06	0.999996	2.42497e-06	0.999996
rad38	1.93438e-06	0.999998	1.93973e-06	0.999998
rad35	1.76561e-06	1.000000	1.77050e-06	1.000000
rad46	1.27870e-07	1.000000	1.28224e-07	1.000000
rad19syn	7.63986e-08	1.000000	7.66098e-08	1.000000
rad60syn	2.91345e-08	1.000000	2.92150e-08	1.000000
PAH3+H	1.45909e-08	1.000000	1.46312e-08	1.000000
rad60anti	1.41795e-08	1.000000	1.42187e-08	1.000000
rad54	1.02843e-08	1.000000	1.03128e-08	1.000000
PAH10+CH3	3.35592e-09	1.000000	3.36520e-09	1.000000
rad59	2.61933e-09	1.000000	2.62658e-09	1.000000
rad6	1.28758e-09	1.000000	1.29114e-09	1.000000
PhcycC3H3_A+H	1.25838e-09	1.000000	1.26187e-09	1.000000
rad50	1.15864e-09	1.000000	1.16185e-09	1.000000
rad62	4.84009e-10	1.000000	4.85347e-10	1.000000
rad43	4.60419e-10	1.000000	4.61691e-10	1.000000
rad67	3.97898e-10	1.000000	3.98999e-10	1.000000
rad70	3.42517e-10	1.000000	3.43464e-10	1.000000
rad2	2.13651e-10	1.000000	2.14241e-10	1.000000
PAH1+H	1.64298e-10	1.000000	1.64753e-10	1.000000
rad55	1.59822e-10	1.000000	1.60264e-10	1.000000
rad1	2.56549e-11	1.000000	2.57258e-11	1.000000
rad34	1.41616e-11	1.000000	1.42007e-11	1.000000
rad52	1.34820e-11	1.000000	1.35193e-11	1.000000
rad10	1.03451e-11	1.000000	1.03736e-11	1.000000
rad23	8.99118e-12	1.000000	9.01610e-12	1.000000
rad51	7.24804e-12	1.000000	7.26808e-12	1.000000
rad3	5.09512e-12	1.000000	5.10922e-12	1.000000
rad4	2.89370e-12	1.000000	2.90169e-12	1.000000
rad28	2.78295e-12	1.000000	2.79065e-12	1.000000
rad45	1.70947e-12	1.000000	1.71420e-12	1.000000

rad58	1.01105e-12	1.00000	1.01385e-12	1.00000
rad42	6.16327e-13	1.00000	6.18032e-13	1.00000
rad26	6.07801e-13	1.00000	6.09483e-13	1.00000
rad53	2.35883e-13	1.00000	2.36536e-13	1.00000
rad65	2.01732e-13	1.00000	2.02290e-13	1.00000
rad41	1.64829e-13	1.00000	1.65284e-13	1.00000
rad7	1.30001e-13	1.00000	1.30360e-13	1.00000
rad64	9.67571e-14	1.00000	9.70247e-14	1.00000
rad36	9.28004e-14	1.00000	9.30568e-14	1.00000
rad11	3.38225e-14	1.00000	3.39160e-14	1.00000
rad56	1.22100e-14	1.00000	1.22438e-14	1.00000
rad68syn	1.45353e-15	1.00000	1.45755e-15	1.00000
rad68anti	1.02673e-15	1.00000	1.02957e-15	1.00000
rad13	8.92102e-16	1.00000	8.94563e-16	1.00000
rad61	4.14139e-16	1.00000	4.15285e-16	1.00000
rad31	2.28446e-16	1.00000	2.29078e-16	1.00000
rad25	1.04823e-16	1.00000	1.05113e-16	1.00000
rad14	7.48578e-17	1.00000	7.50648e-17	1.00000
rad22	4.56712e-17	1.00000	4.57975e-17	1.00000
rad27	3.52909e-17	1.00000	3.53885e-17	1.00000
PAH8+H	3.33552e-17	1.00000	3.34475e-17	1.00000
rad40syn	2.92070e-17	1.00000	2.92878e-17	1.00000
rad33	1.40338e-17	1.00000	1.40726e-17	1.00000
rad40anti	8.32521e-18	1.00000	8.34823e-18	1.00000
rad73	5.30677e-18	1.00000	5.32145e-18	1.00000
rad9	3.31923e-18	1.00000	3.32841e-18	1.00000
rad21	1.73198e-18	1.00000	1.73677e-18	1.00000
rad20	8.90780e-19	1.00000	8.93241e-19	1.00000
rad71	5.89556e-19	1.00000	5.91187e-19	1.00000
rad24	6.96186e-21	1.00000	6.98111e-21	1.00000
rad15	2.23546e-21	1.00000	2.24164e-21	1.00000
rad18	1.44508e-21	1.00000	1.44907e-21	1.00000
rad72	1.32142e-21	1.00000	1.32508e-21	1.00000
rad5	8.09808e-23	1.00000	8.12048e-23	1.00000
rad12	6.96447e-23	1.00000	6.98372e-23	1.00000
rad47	4.86077e-25	1.00000	4.87422e-25	1.00000
rad8	8.30419e-35	1.00000	8.32715e-35	1.00000

0.100000000E-04 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.08120e-14 (1.00)	6.02869e-14 (1.00)
Formation of rad11	2.83304e-14 (0.466)	2.80313e-14 (0.465)
Formation of rad6	2.13840e-14 (0.352)	2.11582e-14 (0.351)
H-abstraction	1.10975e-14 (0.182)	1.10975e-14 (0.184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.606934	0.606934	0.612219	0.612219
Benzene+2-propynyl	0.182488	0.789422	0.184077	0.796297
C2H2+PhCH2	0.112836	0.902258	0.113819	0.910116
PhCCH+CH3	0.0502927	0.952551	0.0507306	0.960846
PhCHCCH2+H	0.0208956	0.973447	0.0210776	0.981924
Phenyl+Allene	0.00863333	0.982080	0.000000	0.981924
PhCCCH3+H	0.00840933	0.990489	0.00848258	0.990406
Ph+MeAc	0.00630895	0.996798	0.00636389	0.996770
PhCH2CCH+H	0.00158536	0.998384	0.00159917	0.998369
PAH7+H	0.00124706	0.999631	0.00125792	0.999627
rad39	0.000304554	0.999935	0.000307206	0.999934
rad19anti	2.07283e-05	0.999956	2.09088e-05	0.999955
rad30	1.54421e-05	0.999971	1.55766e-05	0.999971
PAH9+H	1.45719e-05	0.999986	1.46988e-05	0.999986
rad38	4.88300e-06	0.999991	4.92552e-06	0.999991
rad37	4.23980e-06	0.999995	4.27672e-06	0.999995
rad35	3.83137e-06	0.999999	3.86473e-06	0.999999
rad19syn	5.75843e-07	0.999999	5.80858e-07	0.999999
rad46	4.35560e-07	1.000000	4.39353e-07	1.000000
rad54	1.01017e-07	1.000000	1.01897e-07	1.000000
rad60syn	8.96254e-08	1.000000	9.04058e-08	1.000000
PAH3+H	8.11821e-08	1.000000	8.18892e-08	1.000000
rad60anti	4.57655e-08	1.000000	4.61640e-08	1.000000
PAH10+CH3	2.25831e-08	1.000000	2.27798e-08	1.000000
PhcycC3H3_A+H	2.05528e-08	1.000000	2.07318e-08	1.000000
rad59	1.35486e-08	1.000000	1.36666e-08	1.000000
rad50	9.40277e-09	1.000000	9.48461e-09	1.000000
rad70	4.88193e-09	1.000000	4.92445e-09	1.000000
rad62	3.91161e-09	1.000000	3.94568e-09	1.000000
rad67	3.65819e-09	1.000000	3.69004e-09	1.000000
PAH1+H	3.25971e-09	1.000000	3.28810e-09	1.000000

rad43	2.57504e-09	1.00000	2.59746e-09	1.00000
rad55	2.29328e-09	1.00000	2.31325e-09	1.00000
rad6	6.07623e-10	1.00000	6.12914e-10	1.00000
rad2	3.13252e-10	1.00000	3.15980e-10	1.00000
rad34	2.96007e-10	1.00000	2.98585e-10	1.00000
rad52	1.70978e-10	1.00000	1.72467e-10	1.00000
rad51	1.34066e-10	1.00000	1.35233e-10	1.00000
rad23	5.20314e-11	1.00000	5.24845e-11	1.00000
rad1	4.95728e-11	1.00000	5.00045e-11	1.00000
rad58	1.71337e-11	1.00000	1.72830e-11	1.00000
rad42	1.22225e-11	1.00000	1.23290e-11	1.00000
rad53	1.06169e-11	1.00000	1.07093e-11	1.00000
rad45	1.05311e-11	1.00000	1.06228e-11	1.00000
rad10	9.91527e-12	1.00000	1.00016e-11	1.00000
rad3	8.20169e-12	1.00000	8.27313e-12	1.00000
rad4	5.25605e-12	1.00000	5.30182e-12	1.00000
rad64	4.60105e-12	1.00000	4.64112e-12	1.00000
rad65	4.04388e-12	1.00000	4.07910e-12	1.00000
rad41	2.76379e-12	1.00000	2.78785e-12	1.00000
rad56	1.10532e-12	1.00000	1.11494e-12	1.00000
rad36	9.92631e-13	1.00000	1.00128e-12	1.00000
rad28	5.41212e-13	1.00000	5.45925e-13	1.00000
rad26	1.87244e-13	1.00000	1.88874e-13	1.00000
rad68syn	1.32097e-13	1.00000	1.33247e-13	1.00000
rad68anti	9.18041e-14	1.00000	9.26039e-14	1.00000
rad7	6.79239e-14	1.00000	6.85154e-14	1.00000
rad61	2.45836e-14	1.00000	2.47977e-14	1.00000
rad11	1.91214e-14	1.00000	1.92878e-14	1.00000
PAH8+H	8.65009e-15	1.00000	8.72548e-15	1.00000
rad40syn	4.97827e-15	1.00000	5.02163e-15	1.00000
rad40anti	1.59993e-15	1.00000	1.61386e-15	1.00000
rad73	1.33747e-15	1.00000	1.34911e-15	1.00000
rad13	6.17068e-16	1.00000	6.22441e-16	1.00000
rad71	5.63081e-16	1.00000	5.67985e-16	1.00000
rad31	3.07525e-16	1.00000	3.10203e-16	1.00000
rad9	2.21744e-16	1.00000	2.23675e-16	1.00000
rad22	2.13355e-16	1.00000	2.15213e-16	1.00000
rad25	7.33911e-17	1.00000	7.40302e-17	1.00000
rad33	5.43037e-17	1.00000	5.47766e-17	1.00000
rad14	4.32290e-17	1.00000	4.36055e-17	1.00000
rad27	2.90742e-17	1.00000	2.93274e-17	1.00000
rad21	2.17983e-17	1.00000	2.19881e-17	1.00000
rad72	1.12999e-17	1.00000	1.13984e-17	1.00000
rad20	9.07160e-18	1.00000	9.15057e-18	1.00000
rad24	7.30914e-19	1.00000	7.37280e-19	1.00000
rad15	1.44238e-19	1.00000	1.45494e-19	1.00000
rad12	3.31015e-20	1.00000	3.33898e-20	1.00000
rad18	4.05182e-21	1.00000	4.08710e-21	1.00000
rad5	6.01200e-23	1.00000	6.06435e-23	1.00000
rad47	1.06840e-23	1.00000	1.07770e-23	1.00000
rad8	7.32830e-31	1.00000	7.39212e-31	1.00000

0.100000000E-04 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.39564e-13 (1.00)	1.36669e-13 (1.00)
Formation of rad11	5.88273e-14 (0.422)	5.72650e-14 (0.419)
Formation of rad6	5.01684e-14 (0.359)	4.88360e-14 (0.357)
H-abstraction	3.05678e-14 (0.219)	3.05678e-14 (0.224)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.510454	0.510454	0.521265	0.521265
Benzene+2-propynyl	0.219024	0.729478	0.223663	0.744928
C2H2+PhCH2	0.140690	0.870167	0.143670	0.888598
PhCCH+CH3	0.0586092	0.928777	0.0598506	0.948449
PhCHCCH2+H	0.0277622	0.956539	0.0283503	0.976799
Phenyl+Allene	0.0207415	0.977280	0.000000	0.976799
Ph+MeAc	0.00771340	0.984994	0.00787679	0.984676
PhCCCH3+H	0.00756061	0.992554	0.00772075	0.992396
PhCH2CCH+H	0.00451180	0.997066	0.00460736	0.997004
PAH7+H	0.00225727	0.999323	0.00230508	0.999309
rad39	0.000548288	0.999872	0.000559902	0.999869
rad19anti	4.66037e-05	0.999918	4.75908e-05	0.999916
PAH9+H	2.99985e-05	0.999948	3.06339e-05	0.999947
rad30	2.26762e-05	0.999971	2.31565e-05	0.999970
rad38	1.05314e-05	0.999981	1.07545e-05	0.999981
rad35	7.29844e-06	0.999989	7.45303e-06	0.999988
rad37	5.93522e-06	0.999995	6.06093e-06	0.999994

rad19syn	2.61380e-06	0.999997	2.66916e-06	0.999997
rad46	1.18432e-06	0.999999	1.20940e-06	0.999998
rad54	5.53865e-07	0.999999	5.65596e-07	0.999999
PAH3+H	2.96686e-07	0.999999	3.02969e-07	0.999999
rad60syn	2.09904e-07	1.000000	2.14349e-07	0.999999
PhcycC3H3_A+H	1.62838e-07	1.000000	1.66287e-07	1.000000
rad60anti	1.11059e-07	1.000000	1.13411e-07	1.000000
PAH10+CH3	8.88415e-08	1.000000	9.07227e-08	1.000000
rad50	4.89409e-08	1.000000	4.99774e-08	1.000000
rad59	4.64276e-08	1.000000	4.74110e-08	1.000000
rad70	3.43279e-08	1.000000	3.50550e-08	1.000000
PAH1+H	2.87927e-08	1.000000	2.94026e-08	1.000000
rad67	2.16413e-08	1.000000	2.20997e-08	1.000000
rad62	1.75396e-08	1.000000	1.79112e-08	1.000000
rad55	1.62462e-08	1.000000	1.65903e-08	1.000000
rad43	8.26639e-09	1.000000	8.44142e-09	1.000000
rad34	2.73084e-09	1.000000	2.78869e-09	1.000000
rad51	1.25030e-09	1.000000	1.27679e-09	1.000000
rad52	1.21865e-09	1.000000	1.24446e-09	1.000000
rad6	2.11297e-10	1.000000	2.15772e-10	1.000000
rad2	1.73985e-10	1.000000	1.77670e-10	1.000000
rad53	1.69563e-10	1.000000	1.73154e-10	1.000000
rad58	1.35852e-10	1.000000	1.38730e-10	1.000000
rad42	1.03499e-10	1.000000	1.05691e-10	1.000000
rad64	7.31425e-11	1.000000	7.46917e-11	1.000000
rad23	6.15850e-11	1.000000	6.28895e-11	1.000000
rad65	3.91420e-11	1.000000	3.99711e-11	1.000000
rad1	3.38689e-11	1.000000	3.45863e-11	1.000000
rad56	2.88482e-11	1.000000	2.94593e-11	1.000000
rad41	1.94819e-11	1.000000	1.98946e-11	1.000000
rad45	1.38711e-11	1.000000	1.41649e-11	1.000000
rad3	4.41320e-12	1.000000	4.50668e-12	1.000000
rad10	4.40662e-12	1.000000	4.49997e-12	1.000000
rad68syn	3.41600e-12	1.000000	3.48835e-12	1.000000
rad4	3.07670e-12	1.000000	3.14187e-12	1.000000
rad68anti	2.34482e-12	1.000000	2.39448e-12	1.000000
rad36	1.42455e-12	1.000000	1.45472e-12	1.000000
PAH8+H	4.75762e-13	1.000000	4.85839e-13	1.000000
rad61	4.69504e-13	1.000000	4.79448e-13	1.000000
rad40syn	2.01862e-13	1.000000	2.06138e-13	1.000000
rad28	1.26073e-13	1.000000	1.28744e-13	1.000000
rad40anti	7.20089e-14	1.000000	7.35341e-14	1.000000
rad26	5.62766e-14	1.000000	5.74685e-14	1.000000
rad73	5.62684e-14	1.000000	5.74602e-14	1.000000
rad7	2.74190e-14	1.000000	2.79997e-14	1.000000
rad71	2.08536e-14	1.000000	2.12953e-14	1.000000
rad9	1.20116e-14	1.000000	1.22660e-14	1.000000
rad11	9.71440e-15	1.000000	9.92018e-15	1.000000
rad13	8.31200e-16	1.000000	8.48808e-16	1.000000
rad21	3.99967e-16	1.000000	4.08438e-16	1.000000
rad33	3.82206e-16	1.000000	3.90302e-16	1.000000
rad72	2.84577e-16	1.000000	2.90604e-16	1.000000
rad22	2.57784e-16	1.000000	2.63245e-16	1.000000
rad31	1.78366e-16	1.000000	1.82144e-16	1.000000
rad20	1.48809e-16	1.000000	1.51961e-16	1.000000
rad25	8.90062e-17	1.000000	9.08919e-17	1.000000
rad24	3.96770e-17	1.000000	4.05174e-17	1.000000
rad14	3.93746e-17	1.000000	4.02086e-17	1.000000
rad27	3.74821e-17	1.000000	3.82760e-17	1.000000
rad15	5.33071e-18	1.000000	5.44363e-18	1.000000
rad12	4.79239e-18	1.000000	4.89390e-18	1.000000
rad18	2.17903e-20	1.000000	2.22518e-20	1.000000
rad47	9.04042e-23	1.000000	9.23188e-23	1.000000
rad5	4.99311e-23	1.000000	5.09887e-23	1.000000
rad8	9.25495e-27	1.000000	9.45097e-27	1.000000

0.100000000E-04 Pa, 800.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.75392e-13	(1.00)	2.64229e-13	(1.00)
Formation of rad11	1.06471e-13	(0.387)	1.00706e-13	(0.381)
Formation of rad6	9.97133e-14	(0.362)	9.43145e-14	(0.357)
H-abstraction	6.92082e-14	(0.251)	6.92082e-14	(0.262)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.420963	0.420963	0.438748	0.438748
Benzene+2-propynyl	0.251308	0.672270	0.261925	0.700673
C2H2+PhCH2	0.158756	0.831027	0.165464	0.866137

PhCCH+CH3	0.0631451	0.894172	0.0658130	0.931950
Phenyl+Allene	0.0405363	0.934708	0.00000	0.931950
PhCHCCH2+H	0.0360793	0.970788	0.0376036	0.969553
PhCH2CCH+H	0.00999819	0.980786	0.0104207	0.979974
Ph+MeAc	0.00840385	0.989190	0.00875888	0.988733
PhCCCH3+H	0.00623443	0.995424	0.00649783	0.995231
PAH7+H	0.00351019	0.998934	0.00365850	0.998889
rad39	0.000836596	0.999771	0.000871939	0.999761
rad19anti	9.01935e-05	0.999861	9.40042e-05	0.999855
PAH9+H	5.38600e-05	0.999915	5.61355e-05	0.999911
rad30	2.94556e-05	0.999944	3.07000e-05	0.999942
rad38	1.96291e-05	0.999964	2.04585e-05	0.999962
rad35	1.22732e-05	0.999976	1.27916e-05	0.999975
rad19syn	8.33347e-06	0.999985	8.68552e-06	0.999984
rad37	7.26188e-06	0.999992	7.56866e-06	0.999992
rad46	2.65265e-06	0.999994	2.76472e-06	0.999994
rad54	2.03471e-06	0.999996	2.12067e-06	0.999996
PAH3+H	7.96489e-07	0.999997	8.30142e-07	0.999997
PhcycC3H3_A+H	7.94325e-07	0.999998	8.27884e-07	0.999998
rad60syn	3.96788e-07	0.999998	4.13552e-07	0.999998
PAH10+CH3	2.53197e-07	0.999999	2.63895e-07	0.999999
rad60anti	2.15811e-07	0.999999	2.24928e-07	0.999999
rad50	1.82307e-07	0.999999	1.90010e-07	0.999999
rad70	1.50040e-07	0.999999	1.56379e-07	0.999999
PAH1+H	1.48682e-07	0.999999	1.54963e-07	0.999999
rad59	1.17661e-07	1.000000	1.22632e-07	1.000000
rad67	9.03380e-08	1.000000	9.41547e-08	1.000000
rad55	7.18814e-08	1.000000	7.49183e-08	1.000000
rad62	5.32905e-08	1.000000	5.55419e-08	1.000000
rad43	1.85216e-08	1.000000	1.93041e-08	1.000000
rad34	1.46559e-08	1.000000	1.52750e-08	1.000000
rad51	7.22433e-09	1.000000	7.52954e-09	1.000000
rad52	5.73969e-09	1.000000	5.98218e-09	1.000000
rad53	1.38657e-09	1.000000	1.44515e-09	1.000000
rad58	6.48418e-10	1.000000	6.75812e-10	1.000000
rad64	5.75074e-10	1.000000	5.99371e-10	1.000000
rad42	5.07610e-10	1.000000	5.29056e-10	1.000000
rad56	3.39878e-10	1.000000	3.54238e-10	1.000000
rad65	2.29616e-10	1.000000	2.39317e-10	1.000000
rad41	7.94183e-11	1.000000	8.27736e-11	1.000000
rad2	5.56152e-11	1.000000	5.79649e-11	1.000000
rad6	5.14108e-11	1.000000	5.35828e-11	1.000000
rad68syn	3.95120e-11	1.000000	4.11813e-11	1.000000
rad23	3.47988e-11	1.000000	3.62691e-11	1.000000
rad68anti	2.68638e-11	1.000000	2.79987e-11	1.000000
rad1	1.08371e-11	1.000000	1.12950e-11	1.000000
rad45	1.00025e-11	1.000000	1.04250e-11	1.000000
PAH8+H	9.75666e-12	1.000000	1.01688e-11	1.000000
rad61	4.46226e-12	1.000000	4.65078e-12	1.000000
rad40syn	3.27971e-12	1.000000	3.41828e-12	1.000000
rad3	1.43817e-12	1.000000	1.49893e-12	1.000000
rad40anti	1.27586e-12	1.000000	1.32976e-12	1.000000
rad10	1.24378e-12	1.000000	1.29633e-12	1.000000
rad4	1.02314e-12	1.000000	1.06636e-12	1.000000
rad73	9.99437e-13	1.000000	1.04166e-12	1.000000
rad36	9.56672e-13	1.000000	9.97095e-13	1.000000
rad71	3.51814e-13	1.000000	3.66679e-13	1.000000
rad9	2.40190e-13	1.000000	2.50338e-13	1.000000
rad28	3.75898e-14	1.000000	3.91779e-14	1.000000
rad26	1.56738e-14	1.000000	1.63360e-14	1.000000
rad11	8.91775e-15	1.000000	9.29450e-15	1.000000
rad7	8.86953e-15	1.000000	9.24424e-15	1.000000
rad21	5.89287e-15	1.000000	6.14184e-15	1.000000
rad13	5.79191e-15	1.000000	6.03661e-15	1.000000
rad33	2.86233e-15	1.000000	2.98326e-15	1.000000
rad20	2.26283e-15	1.000000	2.35843e-15	1.000000
rad72	1.12108e-15	1.000000	1.16845e-15	1.000000
rad24	5.58299e-16	1.000000	5.81887e-16	1.000000
rad25	1.92071e-16	1.000000	2.00186e-16	1.000000
rad22	1.62767e-16	1.000000	1.69644e-16	1.000000
rad12	1.15820e-16	1.000000	1.20714e-16	1.000000
rad31	8.40534e-17	1.000000	8.76043e-17	1.000000
rad27	7.07529e-17	1.000000	7.37421e-17	1.000000
rad15	6.42652e-17	1.000000	6.69804e-17	1.000000
rad14	5.75336e-17	1.000000	5.99643e-17	1.000000
rad18	2.26259e-19	1.000000	2.35819e-19	1.000000
rad47	5.02558e-22	1.000000	5.23791e-22	1.000000
rad5	5.51523e-23	1.000000	5.74824e-23	1.000000
rad8	3.33308e-23	1.000000	3.47390e-23	1.000000

0.100000000E-04 Pa, 900.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	4.88072e-13	(1.00)	4.55158e-13	(1.00)
Formation of rad11	1.74945e-13	(0.358)	1.58562e-13	(0.348)
Formation of rad6	1.76509e-13	(0.362)	1.59978e-13	(0.351)
H-abstraction	1.36618e-13	(0.280)	1.36618e-13	(0.300)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.341014	0.341014	0.365674	0.365674
Benzene+2-propynyl	0.279914	0.620928	0.300155	0.665829
C2H2+PhCH2	0.164625	0.785553	0.176529	0.842358
Phenyl+Allene	0.0674364	0.852989	0.000000	0.842358
PhCCH+CH3	0.0639259	0.916915	0.0685485	0.910906
PhCHCCH2+H	0.0451268	0.962042	0.0483901	0.959296
PhCH2CCH+H	0.0182967	0.980338	0.0196198	0.978916
Ph+MeAc	0.00849313	0.988832	0.00910729	0.988024
PhCCCH3+H	0.00485364	0.993685	0.00520463	0.993228
PAH7+H	0.00482415	0.998509	0.00517299	0.998401
rad39	0.00111872	0.999628	0.00119961	0.999601
rad19anti	0.000152570	0.999781	0.000163603	0.999764
PAH9+H	8.58055e-05	0.999866	9.20100e-05	0.999856
rad30	3.45816e-05	0.999901	3.70824e-05	0.999893
rad38	3.22626e-05	0.999933	3.45956e-05	0.999928
rad19syn	2.05726e-05	0.999954	2.20602e-05	0.999950
rad35	1.85019e-05	0.999972	1.98398e-05	0.999970
rad37	8.30353e-06	0.999981	8.90399e-06	0.999979
rad54	5.61022e-06	0.999986	6.01591e-06	0.999985
rad46	5.06239e-06	0.999991	5.42846e-06	0.999990
PhcycC3H3_A+H	2.75303e-06	0.999994	2.95211e-06	0.999993
PAH3+H	1.70031e-06	0.999996	1.82327e-06	0.999995
rad60syn	6.35566e-07	0.999996	6.81526e-07	0.999996
PAH10+CH3	5.91897e-07	0.999997	6.34698e-07	0.999996
PAH1+H	5.27743e-07	0.999998	5.65906e-07	0.999997
rad50	5.26058e-07	0.999998	5.64099e-07	0.999998
rad70	4.68169e-07	0.999999	5.02024e-07	0.999998
rad60anti	3.53464e-07	0.999999	3.79023e-07	0.999998
rad67	2.86638e-07	0.999999	3.07366e-07	0.999999
rad59	2.38374e-07	0.999999	2.55613e-07	0.999999
rad55	2.28529e-07	1.000000	2.45055e-07	0.999999
rad62	1.23575e-07	1.000000	1.32511e-07	0.999999
rad34	5.38118e-08	1.000000	5.77031e-08	0.999999
rad43	3.25336e-08	1.000000	3.48863e-08	0.999999
rad51	2.94634e-08	1.000000	3.15940e-08	0.999999
rad52	1.98863e-08	1.000000	2.13243e-08	1.000000
rad53	7.16536e-09	1.000000	7.68353e-09	1.000000
rad64	2.79837e-09	1.000000	3.00073e-09	1.000000
rad56	2.33179e-09	1.000000	2.50041e-09	1.000000
rad58	2.16896e-09	1.000000	2.32580e-09	1.000000
rad42	1.71810e-09	1.000000	1.84235e-09	1.000000
rad65	9.39266e-10	1.000000	1.00719e-09	1.000000
rad68syn	2.64056e-10	1.000000	2.83151e-10	1.000000
rad41	2.24668e-10	1.000000	2.40914e-10	1.000000
rad68anti	1.78166e-10	1.000000	1.91050e-10	1.000000
PAH8+H	1.02532e-10	1.000000	1.09947e-10	1.000000
rad40syn	2.86481e-11	1.000000	3.07198e-11	1.000000
rad61	2.66402e-11	1.000000	2.85667e-11	1.000000
rad23	1.60743e-11	1.000000	1.72366e-11	1.000000
rad2	1.33132e-11	1.000000	1.42759e-11	1.000000
rad40anti	1.19775e-11	1.000000	1.28436e-11	1.000000
rad6	1.15557e-11	1.000000	1.23914e-11	1.000000
rad73	1.03813e-11	1.000000	1.11320e-11	1.000000
rad45	5.56226e-12	1.000000	5.96448e-12	1.000000
rad71	4.46171e-12	1.000000	4.78436e-12	1.000000
rad1	2.68520e-12	1.000000	2.87938e-12	1.000000
rad9	1.05962e-12	1.000000	1.13625e-12	1.000000
rad36	5.30374e-13	1.000000	5.68727e-13	1.000000
rad3	4.20957e-13	1.000000	4.51397e-13	1.000000
rad4	3.12157e-13	1.000000	3.34730e-13	1.000000
rad10	2.81421e-13	1.000000	3.01771e-13	1.000000
rad13	4.91281e-14	1.000000	5.26807e-14	1.000000
rad21	3.80392e-14	1.000000	4.07899e-14	1.000000
rad11	3.04432e-14	1.000000	3.26447e-14	1.000000
rad20	1.64993e-14	1.000000	1.76924e-14	1.000000
rad28	1.38843e-14	1.000000	1.48884e-14	1.000000
rad33	1.26650e-14	1.000000	1.35808e-14	1.000000
rad72	9.28832e-15	1.000000	9.95998e-15	1.000000
rad7	6.12287e-15	1.000000	6.56564e-15	1.000000

rad26	4.74492e-15	1.000000	5.08804e-15	1.000000
rad24	1.88184e-15	1.000000	2.01792e-15	1.000000
rad25	5.51838e-16	1.000000	5.91743e-16	1.000000
rad12	5.35715e-16	1.000000	5.74454e-16	1.000000
rad15	2.10751e-16	1.000000	2.25990e-16	1.000000
rad27	1.32729e-16	1.000000	1.42327e-16	1.000000
rad14	1.05219e-16	1.000000	1.12828e-16	1.000000
rad22	8.45093e-17	1.000000	9.06201e-17	1.000000
rad31	4.19944e-17	1.000000	4.50312e-17	1.000000
rad18	3.27056e-18	1.000000	3.50706e-18	1.000000
rad8	1.12161e-20	1.000000	1.20272e-20	1.000000
rad47	2.05595e-21	1.000000	2.20462e-21	1.000000
rad5	8.06338e-23	1.000000	8.64644e-23	1.000000

0.100000000E-04 Pa, 1000.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	7.98668e-13	(1.00)	7.19594e-13	(1.00)
Formation of rad11	2.67704e-13	(0.335)	2.29546e-13	(0.319)
Formation of rad6	2.87049e-13	(0.359)	2.46133e-13	(0.342)
H-abstraction	2.43915e-13	(0.305)	2.43915e-13	(0.339)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.305402	0.305402	0.338962	0.338962
Indene+H	0.272124	0.577526	0.302027	0.640989
C2H2+PhCH2	0.159453	0.736979	0.176975	0.817964
Phenyl+Allene	0.0990073	0.835987	0.000000	0.817964
PhCCH+CH3	0.0616205	0.897607	0.0683917	0.886356
PhCHCCH2+H	0.0537596	0.951367	0.0596670	0.946023
PhCH2CCH+H	0.0288969	0.980264	0.0320723	0.978095
Ph+MeAc	0.00817632	0.988440	0.00907480	0.987170
PAH7+H	0.00601184	0.994452	0.00667246	0.993842
PhCCCH3+H	0.00364277	0.998095	0.00404307	0.997885
rad39	0.00134896	0.999444	0.00149719	0.999382
rad19anti	0.000230025	0.999674	0.000255302	0.999638
PAH9+H	0.000123695	0.999797	0.000137287	0.999775
rad38	4.77792e-05	0.999845	5.30296e-05	0.999828
rad19syn	4.20371e-05	0.999887	4.66565e-05	0.999875
rad30	3.74826e-05	0.999925	4.16015e-05	0.999916
rad35	2.54628e-05	0.999950	2.82608e-05	0.999945
rad54	1.25292e-05	0.999963	1.39061e-05	0.999959
rad37	9.28205e-06	0.999972	1.03021e-05	0.999969
rad46	8.48861e-06	0.999980	9.42145e-06	0.999978
PhcycC3H3_A+H	7.44283e-06	0.999988	8.26073e-06	0.999987
PAH3+H	3.05843e-06	0.999991	3.39451e-06	0.999990
PAH1+H	1.42911e-06	0.999992	1.58616e-06	0.999991
rad50	1.24669e-06	0.999994	1.38369e-06	0.999993
PAH10+CH3	1.21323e-06	0.999995	1.34654e-06	0.999994
rad70	1.14131e-06	0.999996	1.26673e-06	0.999995
rad60syn	8.97094e-07	0.999997	9.95669e-07	0.999996
rad67	7.32850e-07	0.999998	8.13375e-07	0.999997
rad55	5.71763e-07	0.999998	6.34592e-07	0.999998
rad60anti	5.08253e-07	0.999999	5.64103e-07	0.999999
rad59	4.08645e-07	0.999999	4.53550e-07	0.999999
rad62	2.36337e-07	0.999999	2.62307e-07	0.999999
rad34	1.49947e-07	0.999999	1.66424e-07	0.999999
rad51	9.25837e-08	0.999999	1.02757e-07	0.999999
rad52	5.46151e-08	1.000000	6.06166e-08	1.000000
rad43	4.82842e-08	1.000000	5.35901e-08	1.000000
rad53	2.66802e-08	1.000000	2.96121e-08	1.000000
rad56	1.08965e-08	1.000000	1.20939e-08	1.000000
rad64	9.68714e-09	1.000000	1.07517e-08	1.000000
rad58	5.61421e-09	1.000000	6.23115e-09	1.000000
rad42	4.47913e-09	1.000000	4.97133e-09	1.000000
rad65	2.93940e-09	1.000000	3.26240e-09	1.000000
rad68syn	1.19347e-09	1.000000	1.32462e-09	1.000000
rad68anti	8.00253e-10	1.000000	8.88191e-10	1.000000
PAH8+H	6.70054e-10	1.000000	7.43681e-10	1.000000
rad41	4.94030e-10	1.000000	5.48317e-10	1.000000
rad40syn	1.60977e-10	1.000000	1.78667e-10	1.000000
rad61	1.14008e-10	1.000000	1.26536e-10	1.000000
rad40anti	7.14860e-11	1.000000	7.93411e-11	1.000000
rad73	6.99085e-11	1.000000	7.75907e-11	1.000000
rad71	3.67649e-11	1.000000	4.08049e-11	1.000000
rad23	7.73796e-12	1.000000	8.58821e-12	1.000000
rad6	4.43366e-12	1.000000	4.92087e-12	1.000000
rad2	3.23404e-12	1.000000	3.58942e-12	1.000000
rad45	3.00958e-12	1.000000	3.34029e-12	1.000000

rad9	1.49473e-12	1.000000	1.65899e-12	1.000000
rad1	7.11095e-13	1.000000	7.89234e-13	1.000000
rad36	2.87991e-13	1.000000	3.19638e-13	1.000000
rad13	2.41265e-13	1.000000	2.67777e-13	1.000000
rad11	1.50329e-13	1.000000	1.66848e-13	1.000000
rad3	1.39517e-13	1.000000	1.54848e-13	1.000000
rad72	1.23637e-13	1.000000	1.37223e-13	1.000000
rad4	1.07114e-13	1.000000	1.18884e-13	1.000000
rad21	9.56156e-14	1.000000	1.06122e-13	1.000000
rad10	7.53507e-14	1.000000	8.36313e-14	1.000000
rad20	4.65002e-14	1.000000	5.16100e-14	1.000000
rad33	2.70074e-14	1.000000	2.99752e-14	1.000000
rad7	2.35649e-14	1.000000	2.61544e-14	1.000000
rad28	7.23993e-15	1.000000	8.03545e-15	1.000000
rad24	2.48801e-15	1.000000	2.76141e-15	1.000000
rad26	2.20825e-15	1.000000	2.45091e-15	1.000000
rad25	1.49317e-15	1.000000	1.65726e-15	1.000000
rad12	9.30067e-16	1.000000	1.03227e-15	1.000000
rad15	2.69540e-16	1.000000	2.99159e-16	1.000000
rad14	1.89400e-16	1.000000	2.10212e-16	1.000000
rad27	1.85952e-16	1.000000	2.06386e-16	1.000000
rad22	4.74220e-17	1.000000	5.26331e-17	1.000000
rad18	4.54294e-17	1.000000	5.04216e-17	1.000000
rad31	2.32683e-17	1.000000	2.58252e-17	1.000000
rad8	3.75825e-19	1.000000	4.17124e-19	1.000000
rad47	6.62547e-21	1.000000	7.35352e-21	1.000000
rad5	1.71218e-22	1.000000	1.90033e-22	1.000000

0.100000000E-04 Pa, 1100.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.22919e-12	(1.00)	1.06688e-12	(1.00)
Formation of rad11	3.87976e-13	(0.316)	3.11712e-13	(0.292)
Formation of rad6	4.37724e-13	(0.356)	3.51681e-13	(0.330)
H-abstraction	4.03491e-13	(0.328)	4.03491e-13	(0.378)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.328257	0.328257	0.378196	0.378196
Indene+H	0.214714	0.542971	0.247379	0.625574
C2H2+PhCH2	0.146502	0.689473	0.168789	0.794364
Phenyl+Allene	0.132044	0.821517	0.000000	0.794364
PhCHCCH2+H	0.0609574	0.882474	0.0702309	0.864595
PhCCH+CH3	0.0572446	0.939719	0.0659535	0.930548
PhCH2CCH+H	0.0407440	0.980463	0.0469425	0.977491
Ph+MeAc	0.00763489	0.988098	0.00879642	0.986287
PAH7+H	0.00694716	0.995045	0.00800405	0.994291
PhCCCH3+H	0.00267733	0.997722	0.00308464	0.997376
rad39	0.00150224	0.999224	0.00173078	0.999107
rad19anti	0.000315220	0.999539	0.000363175	0.999470
PAH9+H	0.000164386	0.999704	0.000189394	0.999659
rad19syn	7.45655e-05	0.999778	8.59091e-05	0.999745
rad38	6.50359e-05	0.999843	7.49299e-05	0.999820
rad30	3.82332e-05	0.999882	4.40497e-05	0.999864
rad35	3.25605e-05	0.999914	3.75140e-05	0.999902
rad54	2.39077e-05	0.999938	2.75448e-05	0.999929
PhcycC3H3_A+H	1.67306e-05	0.999955	1.92759e-05	0.999948
rad46	1.28371e-05	0.999968	1.47901e-05	0.999963
rad37	1.03715e-05	0.999978	1.19494e-05	0.999975
PAH3+H	4.83975e-06	0.999983	5.57602e-06	0.999981
PAH1+H	3.16887e-06	0.999986	3.65096e-06	0.999984
rad50	2.53500e-06	0.999989	2.92065e-06	0.999987
rad70	2.31279e-06	0.999991	2.66464e-06	0.999990
PAH10+CH3	2.25114e-06	0.999993	2.59361e-06	0.999993
rad67	1.57911e-06	0.999995	1.81935e-06	0.999994
rad55	1.19782e-06	0.999996	1.38006e-06	0.999996
rad60syn	1.15117e-06	0.999997	1.32630e-06	0.999997
rad60anti	6.62627e-07	0.999998	7.63433e-07	0.999998
rad59	6.18406e-07	0.999998	7.12482e-07	0.999999
rad62	3.93252e-07	0.999999	4.53078e-07	0.999999
rad34	3.40145e-07	0.999999	3.91892e-07	0.999999
rad51	2.38369e-07	0.999999	2.74634e-07	1.000000
rad52	1.25451e-07	1.000000	1.44536e-07	1.000000
rad53	7.80404e-08	1.000000	8.99129e-08	1.000000
rad43	6.37337e-08	1.000000	7.34295e-08	1.000000
rad56	3.84098e-08	1.000000	4.42533e-08	1.000000
rad64	2.61428e-08	1.000000	3.01199e-08	1.000000
rad58	1.20347e-08	1.000000	1.38656e-08	1.000000
rad42	9.67464e-09	1.000000	1.11465e-08	1.000000

rad65	7.50471e-09	1.000000	8.64638e-09	1.00000
rad68syn	4.04354e-09	1.000000	4.65870e-09	1.00000
PAH8+H	3.08736e-09	1.000000	3.55705e-09	1.00000
rad68anti	2.69715e-09	1.000000	3.10748e-09	1.00000
rad41	9.10252e-10	1.000000	1.04874e-09	1.00000
rad40syn	6.53835e-10	1.000000	7.53304e-10	1.00000
rad61	3.79380e-10	1.000000	4.37096e-10	1.00000
rad73	3.37901e-10	1.000000	3.89306e-10	1.00000
rad40anti	3.05537e-10	1.000000	3.52020e-10	1.00000
rad71	2.11159e-10	1.000000	2.43283e-10	1.00000
rad23	3.87097e-12	1.000000	4.45987e-12	1.00000
rad6	3.38782e-12	1.000000	3.90322e-12	1.00000
rad45	1.62676e-12	1.000000	1.87424e-12	1.00000
rad9	1.28336e-12	1.000000	1.47860e-12	1.00000
rad72	1.11777e-12	1.000000	1.28782e-12	1.00000
rad2	8.75153e-13	1.000000	1.00829e-12	1.00000
rad11	6.03767e-13	1.000000	6.95619e-13	1.00000
rad13	5.55361e-13	1.000000	6.39849e-13	1.00000
rad1	2.04204e-13	1.000000	2.35270e-13	1.00000
rad36	1.56426e-13	1.000000	1.80223e-13	1.00000
rad7	1.25189e-13	1.000000	1.44234e-13	1.00000
rad21	1.12703e-13	1.000000	1.29848e-13	1.00000
rad20	5.72530e-14	1.000000	6.59629e-14	1.00000
rad3	5.16351e-14	1.000000	5.94904e-14	1.00000
rad4	4.04270e-14	1.000000	4.65772e-14	1.00000
rad10	3.31289e-14	1.000000	3.81689e-14	1.00000
rad33	2.98576e-14	1.000000	3.43999e-14	1.00000
rad28	5.45463e-15	1.000000	6.28445e-15	1.00000
rad25	2.72797e-15	1.000000	3.14298e-15	1.00000
rad24	2.16988e-15	1.000000	2.49998e-15	1.00000
rad26	1.56321e-15	1.000000	1.80103e-15	1.00000
rad12	1.06574e-15	1.000000	1.22787e-15	1.00000
rad18	3.95828e-16	1.000000	4.56046e-16	1.00000
rad14	2.59086e-16	1.000000	2.98502e-16	1.00000
rad15	2.32139e-16	1.000000	2.67454e-16	1.00000
rad27	1.66798e-16	1.000000	1.92173e-16	1.00000
rad22	2.81738e-17	1.000000	3.24600e-17	1.00000
rad31	1.37107e-17	1.000000	1.57966e-17	1.00000
rad8	2.31129e-18	1.000000	2.66290e-18	1.00000
rad47	1.74353e-20	1.000000	2.00877e-20	1.00000
rad5	5.16482e-22	1.000000	5.95055e-22	1.00000

0.100000000E-04 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.50733e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.03336e-13 (0.268)
Formation of rad6	6.34764e-13 (0.352)	4.75183e-13 (0.315)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.417)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.417171	0.417171
Indene+H	0.168224	0.517107	0.201151	0.618322
Phenyl+Allene	0.163693	0.680800	0.000000	0.618322
C2H2+PhCH2	0.129445	0.810245	0.154782	0.773104
PhCHCCH2+H	0.0661470	0.876392	0.0790946	0.852199
PhCH2CCH+H	0.0526489	0.929041	0.0629537	0.915152
PhCCH+CH3	0.0518208	0.980862	0.0619641	0.977116
PAH7+H	0.00758545	0.988447	0.00907010	0.986186
Ph+MeAc	0.00700420	0.995451	0.00837514	0.994562
PhCCCH3+H	0.00195097	0.997402	0.00233284	0.996894
rad39	0.00157581	0.998978	0.00188425	0.998779
rad19anti	0.000399579	0.999378	0.000477791	0.999257
PAH9+H	0.000204702	0.999582	0.000244769	0.999501
rad19syn	0.000118863	0.999701	0.000142129	0.999643
rad38	8.27680e-05	0.999784	9.89685e-05	0.999742
rad54	4.05005e-05	0.999824	4.84277e-05	0.999791
rad35	3.92969e-05	0.999864	4.69886e-05	0.999838
rad30	3.73116e-05	0.999901	4.46148e-05	0.999882
PhcycC3H3_A+H	3.27086e-05	0.999934	3.91108e-05	0.999922
rad46	1.78869e-05	0.999952	2.13880e-05	0.999943
rad37	1.16239e-05	0.999963	1.38991e-05	0.999957
PAH3+H	6.95966e-06	0.999970	8.32193e-06	0.999965
PAH1+H	6.04571e-06	0.999976	7.22906e-06	0.999972
rad50	4.57121e-06	0.999981	5.46594e-06	0.999978
rad70	4.07150e-06	0.999985	4.86843e-06	0.999983
PAH10+CH3	3.83957e-06	0.999989	4.59109e-06	0.999987
rad67	2.96796e-06	0.999992	3.54889e-06	0.999991

rad55	2.19501e-06	0.999994	2.62464e-06	0.999993
rad60syn	1.37645e-06	0.999995	1.64587e-06	0.999995
rad59	8.52866e-07	0.999996	1.01981e-06	0.999996
rad60anti	8.03342e-07	0.999997	9.60578e-07	0.999997
rad34	6.59901e-07	0.999998	7.89063e-07	0.999998
rad62	5.91358e-07	0.999998	7.07106e-07	0.999999
rad51	5.25705e-07	0.999999	6.28605e-07	0.999999
rad52	2.50703e-07	0.999999	2.99775e-07	0.999999
rad53	1.90238e-07	0.999999	2.27474e-07	1.000000
rad56	1.09448e-07	0.999999	1.30871e-07	1.000000
rad43	7.76164e-08	0.999999	9.28086e-08	1.000000
rad64	5.85550e-08	0.999999	7.00159e-08	1.000000
rad58	2.24147e-08	0.999999	2.68020e-08	1.000000
rad42	1.82035e-08	0.999999	2.17665e-08	1.000000
rad65	1.63703e-08	0.999999	1.95744e-08	1.000000
rad68syn	1.10175e-08	0.999999	1.31740e-08	1.000000
PAH8+H	1.09227e-08	0.999999	1.30606e-08	1.000000
rad68anti	7.31621e-09	0.999999	8.74827e-09	1.000000
rad40syn	2.07794e-09	0.999999	2.48466e-09	1.000000
rad41	1.48024e-09	0.999999	1.76997e-09	1.000000
rad73	1.26652e-09	0.999999	1.51442e-09	1.000000
rad61	1.03672e-09	0.999999	1.23964e-09	1.000000
rad40anti	1.01429e-09	0.999999	1.21282e-09	1.000000
rad71	9.17535e-10	0.999999	1.09713e-09	1.000000
rad72	7.08936e-12	0.999999	8.47702e-12	1.000000
rad6	3.66804e-12	0.999999	4.38600e-12	1.000000
rad23	1.99376e-12	0.999999	2.38400e-12	1.000000
rad11	1.50204e-12	0.999999	1.79604e-12	1.000000
rad9	9.42707e-13	0.999999	1.12723e-12	1.000000
rad45	8.84484e-13	0.999999	1.05761e-12	1.000000
rad13	6.46665e-13	0.999999	7.73239e-13	1.000000
rad7	4.84716e-13	0.999999	5.79590e-13	1.000000
rad2	2.58798e-13	0.999999	3.09454e-13	1.000000
rad21	8.79041e-14	0.999999	1.05110e-13	1.000000
rad36	8.56473e-14	0.999999	1.02412e-13	1.000000
rad1	6.25376e-14	0.999999	7.47781e-14	1.000000
rad20	4.28302e-14	0.999999	5.12134e-14	1.000000
rad10	2.77402e-14	0.999999	3.31699e-14	1.000000
rad33	2.25860e-14	0.999999	2.70068e-14	1.000000
rad3	2.06569e-14	0.999999	2.47001e-14	1.000000
rad4	1.63623e-14	0.999999	1.95649e-14	1.000000
rad28	5.85419e-15	0.999999	7.00007e-15	1.000000
rad25	3.12053e-15	0.999999	3.73132e-15	1.000000
rad24	1.65803e-15	0.999999	1.98256e-15	1.000000
rad18	1.63214e-15	0.999999	1.95160e-15	1.000000
rad26	1.48401e-15	0.999999	1.77447e-15	1.000000
rad12	1.03519e-15	0.999999	1.23781e-15	1.000000
rad14	2.44013e-16	0.999999	2.91774e-16	1.000000
rad15	2.33128e-16	0.999999	2.78758e-16	1.000000
rad27	1.00943e-16	0.999999	1.20700e-16	1.000000
rad22	1.91920e-17	0.999999	2.29485e-17	1.000000
rad31	8.42038e-18	0.999999	1.00685e-17	1.000000
rad8	5.36818e-18	0.999999	6.41893e-18	1.000000
rad47	3.89980e-20	0.999999	4.66312e-20	1.000000
rad5	2.00400e-21	0.999999	2.39625e-21	1.000000

0.100000000E-04 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.54148e-12 (1.00)	2.05338e-12 (1.00)
Formation of rad11	7.22991e-13 (0.284)	5.03422e-13 (0.245)
Formation of rad6	8.84215e-13 (0.348)	6.15682e-13 (0.300)
H-abstraction	9.34273e-13 (0.368)	9.34273e-13 (0.455)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.367610	0.367610	0.454993	0.454993
Phenyl+Allene	0.192054	0.559664	0.000000	0.454993
Indene+H	0.131421	0.691086	0.162661	0.617654
C2H2+PhCH2	0.111295	0.802381	0.137750	0.755405
PhCHCCH2+H	0.0692296	0.871610	0.0856859	0.841091
PhCH2CCH+H	0.0636260	0.935236	0.0787507	0.919842
PhCCH+CH3	0.0461559	0.981392	0.0571276	0.976969
PAH7+H	0.00794566	0.989338	0.00983443	0.986804
Ph+MeAc	0.00637082	0.995709	0.00788521	0.994689
rad39	0.00158196	0.997291	0.00195800	0.996647
PhCCCH3+H	0.00142376	0.998714	0.00176219	0.998409
rad19anti	0.000475489	0.999190	0.000588514	0.998997
PAH9+H	0.000242131	0.999432	0.000299688	0.999297

rad19syn	0.000174660	0.999607	0.000216178	0.999513
rad38	9.98860e-05	0.999707	0.000123629	0.999637
rad54	6.26274e-05	0.999769	7.75141e-05	0.999714
PhcycC3H3_A+H	5.74351e-05	0.999827	7.10879e-05	0.999786
rad35	4.53516e-05	0.999872	5.61319e-05	0.999842
rad30	3.53185e-05	0.999907	4.37139e-05	0.999885
rad46	2.33611e-05	0.999931	2.89142e-05	0.999914
rad37	1.29873e-05	0.999944	1.60744e-05	0.999930
PAH1+H	1.02825e-05	0.999954	1.27267e-05	0.999943
PAH3+H	9.32004e-06	0.999963	1.15354e-05	0.999955
rad50	7.49585e-06	0.999971	9.27759e-06	0.999964
rad70	6.43021e-06	0.999977	7.95868e-06	0.999972
PAH10+CH3	6.07786e-06	0.999983	7.52262e-06	0.999979
rad67	4.99567e-06	0.999988	6.18315e-06	0.999986
rad55	3.63003e-06	0.999992	4.49291e-06	0.999990
rad60syn	1.56340e-06	0.999993	1.93503e-06	0.999992
rad34	1.13462e-06	0.999995	1.40432e-06	0.999993
rad59	1.09806e-06	0.999996	1.35907e-06	0.999995
rad51	1.02620e-06	0.999997	1.27014e-06	0.999996
rad60anti	9.23688e-07	0.999998	1.14325e-06	0.999997
rad62	8.25901e-07	0.999998	1.02222e-06	0.999998
rad52	4.48900e-07	0.999999	5.55607e-07	0.999999
rad53	4.02868e-07	0.999999	4.98632e-07	0.999999
rad56	2.64598e-07	1.000000	3.27496e-07	1.000000
rad64	1.13755e-07	1.000000	1.40795e-07	1.000000
rad43	8.95932e-08	1.000000	1.10890e-07	1.000000
rad58	3.75497e-08	1.000000	4.64755e-08	1.000000
rad65	3.15601e-08	1.000000	3.90621e-08	1.000000
PAH8+H	3.15023e-08	1.000000	3.89905e-08	1.000000
rad42	3.09037e-08	1.000000	3.82497e-08	1.000000
rad68syn	2.53721e-08	1.000000	3.14033e-08	1.000000
rad68anti	1.67834e-08	1.000000	2.07729e-08	1.000000
rad40syn	5.46373e-09	1.000000	6.76250e-09	1.000000
rad73	3.88973e-09	1.000000	4.81434e-09	1.000000
rad71	3.20241e-09	1.000000	3.96365e-09	1.000000
rad40anti	2.76933e-09	1.000000	3.42762e-09	1.000000
rad61	2.41929e-09	1.000000	2.99437e-09	1.000000
rad41	2.20456e-09	1.000000	2.72860e-09	1.000000
rad72	3.39623e-11	1.000000	4.20353e-11	1.000000
rad6	4.67641e-12	1.000000	5.78802e-12	1.000000
rad11	2.13012e-12	1.000000	2.63646e-12	1.000000
rad7	1.09878e-12	1.000000	1.35997e-12	1.000000
rad23	1.05610e-12	1.000000	1.30714e-12	1.000000
rad9	6.46005e-13	1.000000	7.99568e-13	1.000000
rad13	4.91956e-13	1.000000	6.08898e-13	1.000000
rad45	4.86202e-13	1.000000	6.01774e-13	1.000000
rad2	8.19552e-14	1.000000	1.01436e-13	1.000000
rad21	5.91330e-14	1.000000	7.31895e-14	1.000000
rad36	4.74848e-14	1.000000	5.87724e-14	1.000000
rad20	2.63323e-14	1.000000	3.25917e-14	1.000000
rad10	2.49214e-14	1.000000	3.08453e-14	1.000000
rad1	2.02747e-14	1.000000	2.50941e-14	1.000000
rad33	1.50408e-14	1.000000	1.86161e-14	1.000000
rad3	8.78339e-15	1.000000	1.08713e-14	1.000000
rad28	8.46024e-15	1.000000	1.04713e-14	1.000000
rad4	7.01441e-15	1.000000	8.68174e-15	1.000000
rad18	3.07357e-15	1.000000	3.80417e-15	1.000000
rad25	2.61840e-15	1.000000	3.24081e-15	1.000000
rad26	1.64322e-15	1.000000	2.03382e-15	1.000000
rad24	1.21061e-15	1.000000	1.49838e-15	1.000000
rad12	9.25054e-16	1.000000	1.14494e-15	1.000000
rad15	6.45626e-16	1.000000	7.99094e-16	1.000000
rad14	1.73625e-16	1.000000	2.14897e-16	1.000000
rad27	4.96127e-17	1.000000	6.14059e-17	1.000000
rad22	3.81291e-17	1.000000	4.71927e-17	1.000000
rad8	7.86598e-18	1.000000	9.73573e-18	1.000000
rad31	5.35121e-18	1.000000	6.62325e-18	1.000000
rad47	7.66887e-20	1.000000	9.49183e-20	1.000000
rad5	8.51248e-21	1.000000	1.05359e-20	1.000000

0.100000000E-04 Pa, 1400.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.47024e-12 (1.00)	2.71984e-12 (1.00)
Formation of rad11	9.43269e-13 (0.272)	6.11768e-13 (0.225)
Formation of rad6	1.19194e-12 (0.343)	7.73043e-13 (0.284)
H-abstraction	1.33503e-12 (0.385)	1.33503e-12 (0.491)
species	PYtrue Cumul	PYeffective Cumul

Benzene+2-propynyl	0.384709	0.384709	0.490849	0.490849
Phenyl+Allene	0.216237	0.600946	0.00000	0.490849
Indene+H	0.102753	0.703699	0.131102	0.621951
C2H2+PhCH2	0.0940337	0.797733	0.119977	0.741928
PhCH2CCH+H	0.0730480	0.870781	0.0932017	0.835129
PhCHCCH2+H	0.0704361	0.941217	0.0898693	0.924998
PhCCH+CH3	0.0407709	0.981988	0.0520195	0.977018
PAH7+H	0.00808062	0.990068	0.0103100	0.987328
Ph+MeAc	0.00578254	0.995851	0.00737791	0.994706
rad39	0.00153900	0.997390	0.00196361	0.996669
PhCCCH3+H	0.00104907	0.998439	0.00133851	0.998008
rad19anti	0.000537563	0.998977	0.000685873	0.998694
PAH9+H	0.000275092	0.999252	0.000350989	0.999045
rad19syn	0.000241019	0.999493	0.000307515	0.999352
rad38	0.000115616	0.999608	0.000147513	0.999500
PhcycC3H3_A+H	9.27188e-05	0.999701	0.000118299	0.999618
rad54	9.20266e-05	0.999791	0.000115094	0.999733
rad35	5.05796e-05	0.999842	6.45344e-05	0.999798
rad30	3.27889e-05	0.999875	4.18352e-05	0.999840
rad46	2.89889e-05	0.999904	3.69868e-05	0.999877
PAH1+H	1.59963e-05	0.999920	2.04096e-05	0.999897
rad37	1.43563e-05	0.999934	1.83172e-05	0.999915
PAH3+H	1.18378e-05	0.999946	1.51038e-05	0.999930
rad50	1.13924e-05	0.999957	1.45355e-05	0.999945
rad70	9.33021e-06	0.999967	1.19044e-05	0.999957
PAH10+CH3	9.00294e-06	0.999976	1.14868e-05	0.999968
rad67	7.68554e-06	0.999983	9.80595e-06	0.999978
rad55	5.54137e-06	0.999989	7.07023e-06	0.999985
rad51	1.81654e-06	0.999991	2.31772e-06	0.999988
rad34	1.77488e-06	0.999992	2.26456e-06	0.999990
rad60syn	1.71203e-06	0.999994	2.18438e-06	0.999992
rad59	1.34390e-06	0.999995	1.71468e-06	0.999994
rad62	1.09238e-06	0.999997	1.39377e-06	0.999995
rad60anti	1.02264e-06	0.999998	1.30479e-06	0.999996
rad53	7.63459e-07	0.999998	9.74098e-07	0.999997
rad52	7.36190e-07	0.999999	9.39297e-07	0.999998
rad56	5.61676e-07	1.000000	7.16641e-07	0.999999
rad64	1.97836e-07	1.000000	2.52418e-07	0.999999
rad43	1.00004e-07	1.000000	1.27595e-07	0.999999
PAH8+H	7.73009e-08	1.000000	9.86282e-08	1.000000
rad58	5.80225e-08	1.000000	7.40306e-08	1.000000
rad65	5.51354e-08	1.000000	7.03469e-08	1.000000
rad68syn	5.11875e-08	1.000000	6.53098e-08	1.000000
rad42	4.85214e-08	1.000000	6.19082e-08	1.000000
rad68anti	3.37456e-08	1.000000	4.30559e-08	1.000000
rad40syn	1.23711e-08	1.000000	1.57842e-08	1.000000
rad73	1.01769e-08	1.000000	1.29847e-08	1.000000
rad71	9.36208e-09	1.000000	1.19451e-08	1.000000
rad40anti	6.47926e-09	1.000000	8.26688e-09	1.000000
rad61	4.96370e-09	1.000000	6.33318e-09	1.000000
rad41	3.08784e-09	1.000000	3.93976e-09	1.000000
rad72	1.29425e-10	1.000000	1.65133e-10	1.000000
rad6	7.10858e-12	1.000000	9.06977e-12	1.000000
rad11	1.92545e-12	1.000000	2.45668e-12	1.000000
rad7	1.43324e-12	1.000000	1.82867e-12	1.000000
rad23	5.75215e-13	1.000000	7.33916e-13	1.000000
rad9	4.26457e-13	1.000000	5.44115e-13	1.000000
rad13	3.13837e-13	1.000000	4.00424e-13	1.000000
rad45	2.71238e-13	1.000000	3.46071e-13	1.000000
rad21	3.81060e-14	1.000000	4.86193e-14	1.000000
rad2	2.75493e-14	1.000000	3.51500e-14	1.000000
rad36	2.67375e-14	1.000000	3.41143e-14	1.000000
rad10	1.68325e-14	1.000000	2.14765e-14	1.000000
rad20	1.53040e-14	1.000000	1.95263e-14	1.000000
rad28	1.48042e-14	1.000000	1.88886e-14	1.000000
rad33	9.75778e-15	1.000000	1.24499e-14	1.000000
rad1	6.94374e-15	1.000000	8.85954e-15	1.000000
rad3	3.93970e-15	1.000000	5.02664e-15	1.000000
rad18	3.17462e-15	1.000000	4.05049e-15	1.000000
rad4	3.16634e-15	1.000000	4.03992e-15	1.000000
rad25	1.93942e-15	1.000000	2.47449e-15	1.000000
rad26	1.86994e-15	1.000000	2.38585e-15	1.000000
rad15	1.83391e-15	1.000000	2.33988e-15	1.000000
rad24	8.67708e-16	1.000000	1.10711e-15	1.000000
rad12	7.86877e-16	1.000000	1.00397e-15	1.000000
rad22	2.47231e-16	1.000000	3.15441e-16	1.000000
rad14	1.10830e-16	1.000000	1.41408e-16	1.000000
rad27	2.35636e-17	1.000000	3.00647e-17	1.000000
rad8	9.26462e-18	1.000000	1.18207e-17	1.000000

rad31	3.51109e-18	1.00000	4.47979e-18	1.000000
rad47	1.36054e-19	1.00000	1.73591e-19	1.000000
rad5	3.30716e-20	1.00000	4.21959e-20	1.000000

0.100000000E-04 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.61271e-12 (1.00)	3.52361e-12 (1.00)
Formation of rad11	1.20217e-12 (0.261)	7.28782e-13 (0.207)
Formation of rad6	1.56360e-12 (0.339)	9.47887e-13 (0.269)
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.524)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.524162	0.524162
Phenyl+Allene	0.236109	0.636511	0.000000	0.524162
Indene+H	0.0806435	0.717155	0.105570	0.629731
PhCH2CCH+H	0.0806387	0.797793	0.105563	0.735294
C2H2+PhCH2	0.0787062	0.876500	0.103033	0.838328
PhCHCCH2+H	0.0701571	0.946657	0.0918421	0.930170
PhCCH+CH3	0.0359368	0.982594	0.0470444	0.977214
PAH7+H	0.00805110	0.990645	0.0105396	0.987754
Ph+MeAc	0.00526035	0.995905	0.00688624	0.994640
rad39	0.00146497	0.997370	0.00191777	0.996558
PhCCCH3+H	0.000785539	0.998156	0.00102834	0.997586
rad19anti	0.000582991	0.998739	0.000763188	0.998349
rad19syn	0.000316567	0.999055	0.000414413	0.998764
PAH9+H	0.000302845	0.999358	0.000396450	0.999160
PhcycC3H3_A+H	0.000139913	0.999498	0.000183158	0.999343
rad38	0.000129499	0.999627	0.000169526	0.999513
rad54	0.000122808	0.999750	0.000160767	0.999674
rad35	5.49599e-05	0.999805	7.19472e-05	0.999746
rad46	3.45380e-05	0.999840	4.52132e-05	0.999791
rad30	3.01156e-05	0.999870	3.94239e-05	0.999830
PAH1+H	2.31901e-05	0.999893	3.03579e-05	0.999861
rad50	1.62766e-05	0.999909	2.13074e-05	0.999882
rad37	1.56192e-05	0.999925	2.04470e-05	0.999902
PAH3+H	1.44553e-05	0.999939	1.89232e-05	0.999921
rad70	1.26613e-05	0.999952	1.65747e-05	0.999938
PAH10+CH3	1.25752e-05	0.999965	1.64620e-05	0.999954
rad67	1.09793e-05	0.999976	1.43728e-05	0.999969
rad55	7.93592e-06	0.999983	1.03888e-05	0.999979
rad51	2.96749e-06	0.999986	3.88470e-06	0.999983
rad34	2.57549e-06	0.999989	3.37153e-06	0.999986
rad60syn	1.82792e-06	0.999991	2.39290e-06	0.999989
rad59	1.58467e-06	0.999992	2.07447e-06	0.999991
rad62	1.38706e-06	0.999994	1.81579e-06	0.999993
rad53	1.32204e-06	0.999995	1.73067e-06	0.999994
rad52	1.12378e-06	0.999996	1.47114e-06	0.999996
rad60anti	1.10268e-06	0.999997	1.44350e-06	0.999997
rad56	1.07222e-06	0.999998	1.40364e-06	0.999999
rad64	3.15087e-07	0.999999	4.12476e-07	0.999999
PAH8+H	1.66252e-07	0.999999	2.17639e-07	0.999999
rad43	1.09523e-07	0.999999	1.43375e-07	0.999999
rad68syn	9.28291e-08	0.999999	1.21521e-07	0.999999
rad65	8.88724e-08	0.999999	1.16342e-07	1.000000
rad58	8.42069e-08	0.999999	1.10234e-07	1.000000
rad42	7.16663e-08	0.999999	9.38173e-08	1.000000
rad68anti	6.10163e-08	0.999999	7.98757e-08	1.000000
rad40syn	2.48114e-08	0.999999	3.24802e-08	1.000000
rad71	2.35639e-08	0.999999	3.08472e-08	1.000000
rad73	2.32861e-08	0.999999	3.04835e-08	1.000000
rad40anti	1.33700e-08	0.999999	1.75025e-08	1.000000
rad61	9.14968e-09	0.999999	1.19777e-08	1.000000
rad41	4.14357e-09	0.999999	5.42427e-09	1.000000
rad72	4.05222e-10	0.999999	5.30469e-10	1.000000
rad6	1.20664e-11	0.999999	1.57960e-11	1.000000
rad11	1.35789e-12	0.999999	1.77759e-12	1.000000
rad7	1.25137e-12	0.999999	1.63815e-12	1.000000
rad23	3.21525e-13	0.999999	4.20904e-13	1.000000
rad9	2.76368e-13	0.999999	3.61790e-13	1.000000
rad13	1.89903e-13	0.999999	2.48600e-13	1.000000
rad45	1.53977e-13	0.999999	2.01569e-13	1.000000
rad28	2.69020e-14	0.999999	3.52171e-14	1.000000
rad21	2.42952e-14	0.999999	3.18045e-14	1.000000
rad36	1.53231e-14	0.999999	2.00593e-14	1.000000
rad2	9.81026e-15	0.999999	1.28425e-14	1.000000
rad10	8.90409e-15	0.999999	1.16562e-14	1.000000
rad20	8.79172e-15	0.999999	1.15092e-14	1.000000

rad33	6.33589e-15	0.999999	8.29424e-15	1.00000
rad15	3.00571e-15	0.999999	3.93473e-15	1.00000
rad1	2.51297e-15	0.999999	3.28970e-15	1.00000
rad18	2.34698e-15	0.999999	3.07241e-15	1.00000
rad26	1.98205e-15	0.999999	2.59468e-15	1.00000
rad3	1.85737e-15	0.999999	2.43146e-15	1.00000
rad4	1.50031e-15	0.999999	1.96404e-15	1.00000
rad25	1.37831e-15	0.999999	1.80433e-15	1.00000
rad22	1.28402e-15	0.999999	1.68090e-15	1.00000
rad12	6.49250e-16	0.999999	8.49924e-16	1.00000
rad24	6.18581e-16	0.999999	8.09777e-16	1.00000
rad14	6.98939e-17	0.999999	9.14971e-17	1.00000
rad27	1.15741e-17	0.999999	1.51515e-17	1.00000
rad8	9.76883e-18	0.999999	1.27883e-17	1.00000
rad31	2.37694e-18	0.999999	3.11163e-18	1.00000
rad47	2.21852e-19	0.999999	2.90423e-19	1.00000
rad5	1.00991e-19	0.999999	1.32206e-19	1.00000

0.100000000E-04 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.27400e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.05237e-12 (0.168)
Formation of rad6	2.80256e-12 (0.325)	1.44565e-12 (0.230)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.602)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.601845	0.601845
Phenyl+Allene	0.272047	0.710162	0.00000	0.601845
PhCH2CCH+H	0.0933387	0.803501	0.128221	0.730066
PhCHCCH2+H	0.0656327	0.869134	0.0901606	0.820227
C2H2+PhCH2	0.0475978	0.916731	0.0653858	0.885612
Indene+H	0.0395372	0.956269	0.0543127	0.939925
PhCCH+CH3	0.0276514	0.983920	0.0379853	0.977910
PAH7+H	0.00712605	0.991046	0.00978916	0.987700
Ph+MeAc	0.00488545	0.995931	0.00671122	0.994411
rad39	0.00123375	0.997165	0.00169483	0.996106
rad19anti	0.000564116	0.997729	0.000774933	0.996881
rad19syn	0.000506158	0.998235	0.000695318	0.997576
PhCCCH3+H	0.000461483	0.998697	0.000633946	0.998210
PhcycC3H3_A+H	0.000354596	0.999052	0.000487115	0.998697
PAH9+H	0.000266731	0.999318	0.000366412	0.999063
rad54	0.000215004	0.999533	0.000295354	0.999359
rad38	0.000142764	0.999676	0.000196118	0.999555
rad35	4.88397e-05	0.999725	6.70919e-05	0.999622
PAH1+H	4.24056e-05	0.999767	5.82532e-05	0.999680
rad46	3.79670e-05	0.999805	5.21559e-05	0.999732
rad50	2.38701e-05	0.999829	3.27908e-05	0.999765
rad30	2.30179e-05	0.999852	3.16201e-05	0.999797
PAH10+CH3	2.22275e-05	0.999874	3.05343e-05	0.999827
rad70	2.20506e-05	0.999896	3.02913e-05	0.999858
PAH3+H	2.08052e-05	0.999917	2.85805e-05	0.999886
rad55	1.72026e-05	0.999934	2.36314e-05	0.999910
rad67	1.69163e-05	0.999951	2.32382e-05	0.999933
rad37	1.61425e-05	0.999968	2.21752e-05	0.999955
rad51	6.11253e-06	0.999974	8.39689e-06	0.999964
rad34	5.25680e-06	0.999979	7.22134e-06	0.999971
rad53	4.39527e-06	0.999983	6.03786e-06	0.999977
rad56	3.99314e-06	0.999987	5.48546e-06	0.999982
rad62	2.35598e-06	0.999990	3.23645e-06	0.999986
rad59	2.06481e-06	0.999992	2.83647e-06	0.999988
rad52	2.03181e-06	0.999994	2.79112e-06	0.999991
rad60syn	1.94292e-06	0.999996	2.66902e-06	0.999994
rad60anti	1.30713e-06	0.999997	1.79563e-06	0.999996
rad64	7.88600e-07	0.999998	1.08332e-06	0.999997
PAH8+H	5.90480e-07	0.999998	8.11153e-07	0.999998
rad68syn	2.81742e-07	0.999999	3.87034e-07	0.999998
rad68anti	1.82569e-07	0.999999	2.50799e-07	0.999998
rad65	1.74382e-07	0.999999	2.39552e-07	0.999998
rad42	1.70585e-07	0.999999	2.34336e-07	0.999999
rad58	1.57351e-07	0.999999	2.16156e-07	0.999999
rad43	1.31435e-07	0.999999	1.80554e-07	0.999999
rad71	1.24696e-07	1.000000	1.71297e-07	0.999999
rad73	9.95914e-08	1.000000	1.36810e-07	0.999999
rad40syn	8.39457e-08	1.000000	1.15318e-07	1.000000
rad40anti	5.01024e-08	1.000000	6.88266e-08	1.000000
rad61	2.64237e-08	1.000000	3.62987e-08	1.000000
rad41	7.91859e-09	1.000000	1.08779e-08	1.000000

rad72	3.69503e-09	1.000000	5.07592e-09	1.000000
rad6	2.81407e-11	1.000000	3.86574e-11	1.000000
rad7	2.29398e-13	1.000000	3.15127e-13	1.000000
rad11	1.74073e-13	1.000000	2.39127e-13	1.000000
rad28	6.35419e-14	1.000000	8.72891e-14	1.000000
rad23	5.52346e-14	1.000000	7.58768e-14	1.000000
rad9	2.22200e-14	1.000000	3.05240e-14	1.000000
rad13	1.60837e-14	1.000000	2.20945e-14	1.000000
rad45	1.32482e-14	1.000000	1.81994e-14	1.000000
rad22	8.41373e-15	1.000000	1.15581e-14	1.000000
rad36	2.29360e-15	1.000000	3.15076e-15	1.000000
rad21	1.98012e-15	1.000000	2.72012e-15	1.000000
rad26	1.30654e-15	1.000000	1.79481e-15	1.000000
rad15	1.11859e-15	1.000000	1.53663e-15	1.000000
rad10	7.74199e-16	1.000000	1.06353e-15	1.000000
rad20	6.44623e-16	1.000000	8.85528e-16	1.000000
rad33	5.54005e-16	1.000000	7.61045e-16	1.000000
rad18	2.99782e-16	1.000000	4.11816e-16	1.000000
rad2	2.66656e-16	1.000000	3.66309e-16	1.000000
rad25	1.43077e-16	1.000000	1.96547e-16	1.000000
rad12	7.47122e-17	1.000000	1.02634e-16	1.000000
rad1	7.24248e-17	1.000000	9.94909e-17	1.000000
rad3	6.45747e-17	1.000000	8.87077e-17	1.000000
rad24	6.07027e-17	1.000000	8.33884e-17	1.000000
rad4	4.13810e-17	1.000000	5.68458e-17	1.000000
rad14	7.58528e-18	1.000000	1.04200e-17	1.000000
rad8	2.76592e-18	1.000000	3.79959e-18	1.000000
rad27	6.88433e-19	1.000000	9.45709e-19	1.000000
rad5	5.46366e-19	1.000000	7.50554e-19	1.000000
rad47	1.43456e-19	1.000000	1.97067e-19	1.000000

0.100000000E-04 Pa, 2000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.44111e-11 (1.00)	1.02930e-11 (1.00)
Formation of rad11	3.16882e-12 (0.220)	1.47449e-12 (0.143)
Formation of rad6	4.53302e-12 (0.315)	2.10927e-12 (0.205)
H-abstraction	6.70922e-12 (0.466)	6.70922e-12 (0.652)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.651825	0.651825
Phenyl+Allene	0.285759	0.751319	0.000000	0.651825
PhCH2CCH+H	0.0971788	0.848498	0.136059	0.787884
PhCHCCH2+H	0.0592993	0.907797	0.0830241	0.870908
C2H2+PhCH2	0.0319942	0.939791	0.0447948	0.915703
Indene+H	0.0233046	0.963096	0.0326284	0.948331
PhCCH+CH3	0.0216466	0.984742	0.0303071	0.978638
PAH7+H	0.00659328	0.991336	0.00923114	0.987869
Ph+MeAc	0.00420938	0.995545	0.00589349	0.993763
rad39	0.00101472	0.996560	0.00142069	0.995183
rad19syn	0.000746783	0.997306	0.00104557	0.996229
PhcycC3H3_A+H	0.000656335	0.997963	0.000918925	0.997148
rad19anti	0.000529228	0.998492	0.000740966	0.997889
rad54	0.000330237	0.998822	0.000462359	0.998351
PhCCCH3+H	0.000291962	0.999114	0.000408772	0.998760
PAH9+H	0.000279546	0.999394	0.000391387	0.999151
rad38	0.000156414	0.999550	0.000218994	0.999370
PAH1+H	6.96990e-05	0.999620	9.75848e-05	0.999468
rad35	5.18637e-05	0.999672	7.26137e-05	0.999541
rad46	4.57412e-05	0.999717	6.40416e-05	0.999605
rad50	3.87497e-05	0.999756	5.42530e-05	0.999659
PAH10+CH3	3.34470e-05	0.999790	4.68285e-05	0.999706
rad70	3.20125e-05	0.999822	4.48203e-05	0.999751
rad55	2.86889e-05	0.999850	4.01669e-05	0.999791
PAH3+H	2.79049e-05	0.999878	3.90694e-05	0.999830
rad67	2.51584e-05	0.999903	3.52238e-05	0.999865
rad30	1.88901e-05	0.999922	2.64479e-05	0.999891
rad37	1.66057e-05	0.999939	2.32494e-05	0.999915
rad51	1.22963e-05	0.999951	1.72160e-05	0.999932
rad56	1.03249e-05	0.999961	1.44559e-05	0.999946
rad53	9.90974e-06	0.999971	1.38745e-05	0.999960
rad34	8.56178e-06	0.999980	1.19873e-05	0.999972
rad52	3.64112e-06	0.999984	5.09788e-06	0.999977
rad62	3.41505e-06	0.999987	4.78139e-06	0.999982
rad59	2.58714e-06	0.999990	3.62224e-06	0.999986
rad60syn	2.06844e-06	0.999992	2.89599e-06	0.999989
PAH8+H	1.81455e-06	0.999993	2.54053e-06	0.999991
rad64	1.47576e-06	0.999995	2.06619e-06	0.999993

rad60anti	1.42207e-06	0.999996	1.99102e-06	0.999995
rad68syn	6.53892e-07	0.999997	9.15510e-07	0.999996
rad71	4.98025e-07	0.999998	6.97277e-07	0.999997
rad68anti	4.21792e-07	0.999998	5.90544e-07	0.999997
rad73	3.38736e-07	0.999998	4.74260e-07	0.999998
rad65	3.37785e-07	0.999999	4.72930e-07	0.999998
rad42	3.12138e-07	0.999999	4.37019e-07	0.999999
rad58	2.75720e-07	0.999999	3.86032e-07	0.999999
rad40syn	2.27523e-07	0.999999	3.18551e-07	1.000000
rad43	1.62531e-07	1.000000	2.27558e-07	1.000000
rad40anti	1.42660e-07	1.000000	1.99737e-07	1.000000
rad61	5.98888e-08	1.000000	8.38493e-08	1.000000
rad72	2.09307e-08	1.000000	2.93048e-08	1.000000
rad41	1.34670e-08	1.000000	1.88550e-08	1.000000
rad6	5.97509e-12	1.000000	8.36564e-12	1.000000
rad7	5.25061e-14	1.000000	7.35130e-14	1.000000
rad11	4.12488e-14	1.000000	5.77518e-14	1.000000
rad23	3.16747e-14	1.000000	4.43474e-14	1.000000
rad28	2.01848e-14	1.000000	2.82605e-14	1.000000
rad9	7.55960e-15	1.000000	1.05841e-14	1.000000
rad13	4.89597e-15	1.000000	6.85477e-15	1.000000
rad45	4.02832e-15	1.000000	5.64002e-15	1.000000
rad22	2.65016e-15	1.000000	3.71047e-15	1.000000
rad21	7.16422e-16	1.000000	1.00305e-15	1.000000
rad36	7.13531e-16	1.000000	9.99005e-16	1.000000
rad15	3.98290e-16	1.000000	5.57641e-16	1.000000
rad26	3.10315e-16	1.000000	4.34467e-16	1.000000
rad33	2.26331e-16	1.000000	3.16884e-16	1.000000
rad20	1.89431e-16	1.000000	2.65220e-16	1.000000
rad10	1.14690e-16	1.000000	1.60577e-16	1.000000
rad18	6.66195e-17	1.000000	9.32730e-17	1.000000
rad25	5.79819e-17	1.000000	8.11799e-17	1.000000
rad12	4.14756e-17	1.000000	5.80694e-17	1.000000
rad2	3.53866e-17	1.000000	4.95443e-17	1.000000
rad24	2.85159e-17	1.000000	3.99249e-17	1.000000
rad3	1.63699e-17	1.000000	2.29193e-17	1.000000
rad4	1.04122e-17	1.000000	1.45779e-17	1.000000
rad1	9.93507e-18	1.000000	1.39100e-17	1.000000
rad14	2.92675e-18	1.000000	4.09771e-18	1.000000
rad8	2.34712e-18	1.000000	3.28617e-18	1.000000
rad5	3.73471e-19	1.000000	5.22893e-19	1.000000
rad47	2.86742e-19	1.000000	4.01464e-19	1.000000
rad27	1.89905e-19	1.000000	2.65883e-19	1.000000

0.100000000E-04 Pa, 2250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.23655e-11 (1.00)	1.58437e-11 (1.00)
Formation of rad11	4.62280e-12 (0.207)	1.98925e-12 (0.126)
Formation of rad6	6.82518e-12 (0.305)	2.93696e-12 (0.185)
H-abstraction	1.09175e-11 (0.488)	1.09175e-11 (0.689)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.689074	0.689074
Phenyl+Allene	0.291600	0.779740	0.000000	0.689074
PhCH2CCH+H	0.0967415	0.876482	0.136563	0.825637
PhCHCCH2+H	0.0532744	0.929756	0.0752040	0.900841
C2H2+PhCH2	0.0232642	0.953020	0.0328403	0.933682
PhCCH+CH3	0.0176492	0.970669	0.0249142	0.958596
Indene+H	0.0145378	0.985207	0.0205221	0.979118
PAH7+H	0.00604332	0.991251	0.00853097	0.987649
Ph+MeAc	0.00373478	0.994985	0.00527212	0.992921
PhcycC3H3_A+H	0.00104439	0.996030	0.00147430	0.994395
rad19syn	0.000992650	0.997022	0.00140125	0.995797
rad39	0.000833753	0.997856	0.00117695	0.996694
rad19anti	0.000463520	0.998320	0.000654319	0.997628
rad54	0.000448432	0.998768	0.000633020	0.998261
PAH9+H	0.000276004	0.999044	0.000389615	0.998651
PhCCCH3+H	0.000209665	0.999254	0.000295970	0.998946
rad38	0.000160719	0.999414	0.000226876	0.999173
PAH1+H	9.95931e-05	0.999514	0.000140589	0.999314
rad50	5.46328e-05	0.999569	7.71214e-05	0.999391
rad35	5.24979e-05	0.999621	7.41079e-05	0.999465
rad46	5.06983e-05	0.999672	7.15674e-05	0.999537
PAH10+CH3	4.32190e-05	0.999715	6.10093e-05	0.999598
rad55	4.15447e-05	0.999757	5.86459e-05	0.999656
rad70	4.13232e-05	0.999798	5.83331e-05	0.999715
PAH3+H	3.54273e-05	0.999833	5.00103e-05	0.999765

rad67	3.21710e-05	0.999866	4.54135e-05	0.999810
rad56	2.10958e-05	0.999887	2.97795e-05	0.999840
rad51	2.05290e-05	0.999907	2.89794e-05	0.999869
rad53	1.82253e-05	0.999925	2.57273e-05	0.999895
rad30	1.61770e-05	0.999942	2.28359e-05	0.999917
rad37	1.58091e-05	0.999957	2.23166e-05	0.999940
rad34	1.21378e-05	0.999970	1.71341e-05	0.999957
rad52	5.53699e-06	0.999975	7.81618e-06	0.999965
rad62	4.54170e-06	0.999980	6.41120e-06	0.999971
PAH8+H	4.26413e-06	0.999984	6.01937e-06	0.999977
rad59	3.10133e-06	0.999987	4.37793e-06	0.999982
rad64	2.31389e-06	0.999989	3.26637e-06	0.999985
rad60syn	2.18352e-06	0.999991	3.08232e-06	0.999988
rad60anti	1.52762e-06	0.999993	2.15643e-06	0.999990
rad71	1.42621e-06	0.999994	2.01328e-06	0.999992
rad68syn	1.22834e-06	0.999996	1.73396e-06	0.999994
rad73	8.52958e-07	0.999996	1.20406e-06	0.999995
rad68anti	7.89692e-07	0.999997	1.11475e-06	0.999996
rad65	5.43585e-07	0.999998	7.67340e-07	0.999997
rad42	4.97942e-07	0.999998	7.02910e-07	0.999998
rad40syn	4.83630e-07	0.999999	6.82706e-07	0.999998
rad58	4.30302e-07	0.999999	6.07428e-07	0.999999
rad40anti	3.15359e-07	1.000000	4.45171e-07	0.999999
rad43	2.01350e-07	1.000000	2.84232e-07	1.000000
rad61	1.06762e-07	1.000000	1.50709e-07	1.000000
rad72	7.85254e-08	1.000000	1.10849e-07	1.000000
rad41	2.11925e-08	1.000000	2.99160e-08	1.000000
rad6	1.19683e-12	1.000000	1.68948e-12	1.000000
rad7	1.68560e-14	1.000000	2.37944e-14	1.000000
rad11	1.28923e-14	1.000000	1.81991e-14	1.000000
rad23	8.71457e-15	1.000000	1.23018e-14	1.000000
rad28	4.33962e-15	1.000000	6.12596e-15	1.000000
rad9	2.74768e-15	1.000000	3.87871e-15	1.000000
rad13	1.82810e-15	1.000000	2.58059e-15	1.000000
rad45	1.39773e-15	1.000000	1.97308e-15	1.000000
rad22	6.74125e-16	1.000000	9.51614e-16	1.000000
rad21	2.97971e-16	1.000000	4.20624e-16	1.000000
rad36	2.52513e-16	1.000000	3.56455e-16	1.000000
rad15	1.60392e-16	1.000000	2.26415e-16	1.000000
rad33	1.06526e-16	1.000000	1.50376e-16	1.000000
rad26	8.48515e-17	1.000000	1.19779e-16	1.000000
rad20	6.76725e-17	1.000000	9.55283e-17	1.000000
rad10	3.05075e-17	1.000000	4.30654e-17	1.000000
rad25	2.68292e-17	1.000000	3.78730e-17	1.000000
rad12	2.31790e-17	1.000000	3.27203e-17	1.000000
rad18	2.02950e-17	1.000000	2.86490e-17	1.000000
rad24	1.45642e-17	1.000000	2.05592e-17	1.000000
rad2	6.76167e-18	1.000000	9.54499e-18	1.000000
rad3	5.33353e-18	1.000000	7.52898e-18	1.000000
rad4	3.33225e-18	1.000000	4.70390e-18	1.000000
rad8	2.01388e-18	1.000000	2.84285e-18	1.000000
rad1	1.91857e-18	1.000000	2.70831e-18	1.000000
rad14	1.40657e-18	1.000000	1.98555e-18	1.000000
rad47	4.71862e-19	1.000000	6.66093e-19	1.000000
rad5	2.19237e-19	1.000000	3.09482e-19	1.000000
rad27	7.37416e-20	1.000000	1.04096e-19	1.000000

0.100000000E-04 Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.28090e-11 (1.00)	2.31980e-11 (1.00)
Formation of rad11	6.43164e-12 (0.196)	2.60906e-12 (0.112)
Formation of rad6	9.73932e-12 (0.297)	3.95085e-12 (0.170)
H-abstraction	1.66381e-11 (0.507)	1.66381e-11 (0.717)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.717221	0.717221
Phenyl+Allene	0.292939	0.800058	0.000000	0.717221
PhCH2CCH+H	0.0943957	0.894453	0.133505	0.850725
PhCHCCH2+H	0.0481939	0.942647	0.0681609	0.918886
C2H2+PhCH2	0.0183497	0.960997	0.0259521	0.944838
PhCCH+CH3	0.0148752	0.975872	0.0210381	0.965876
Indene+H	0.00953292	0.985405	0.0134824	0.979359
PAH7+H	0.00553047	0.990936	0.00782174	0.987180
Ph+MeAc	0.00339482	0.994330	0.00480131	0.991982
PhcycC3H3_A+H	0.00149309	0.995824	0.00211168	0.994093
rad19syn	0.00122618	0.997050	0.00173419	0.995828
rad39	0.000692493	0.997742	0.000979395	0.996807

rad54	0.000558297	0.998301	0.000789599	0.997597
rad19anti	0.000392540	0.998693	0.000555170	0.998152
PAH9+H	0.000261381	0.998954	0.000369672	0.998522
PhCCCH3+H	0.000164587	0.999119	0.000232776	0.998754
rad38	0.000157797	0.999277	0.000223174	0.998977
PAH1+H	0.000129617	0.999406	0.000183319	0.999161
rad50	6.95411e-05	0.999476	9.83527e-05	0.999259
rad55	5.44673e-05	0.999530	7.70336e-05	0.999336
rad46	5.29591e-05	0.999583	7.49001e-05	0.999411
rad35	5.14100e-05	0.999635	7.27094e-05	0.999484
PAH10+CH3	5.04331e-05	0.999685	7.13277e-05	0.999555
rad70	4.95223e-05	0.999735	7.00399e-05	0.999625
PAH3+H	4.31617e-05	0.999778	6.10439e-05	0.999686
rad67	3.73882e-05	0.999815	5.28783e-05	0.999739
rad56	3.65112e-05	0.999852	5.16378e-05	0.999791
rad51	2.99347e-05	0.999882	4.23369e-05	0.999833
rad53	2.90213e-05	0.999911	4.10449e-05	0.999874
rad34	1.57208e-05	0.999926	2.22340e-05	0.999896
rad30	1.43454e-05	0.999941	2.02888e-05	0.999917
rad37	1.43019e-05	0.999955	2.02272e-05	0.999937
PAH8+H	8.32886e-06	0.999963	1.17795e-05	0.999949
rad52	7.47627e-06	0.999971	1.05737e-05	0.999959
rad62	5.70269e-06	0.999977	8.06532e-06	0.999967
rad59	3.60017e-06	0.999980	5.09173e-06	0.999972
rad64	3.22135e-06	0.999983	4.55597e-06	0.999977
rad71	3.21465e-06	0.999987	4.54650e-06	0.999981
rad60syn	2.29248e-06	0.999989	3.24226e-06	0.999985
rad68syn	1.99920e-06	0.999991	2.82747e-06	0.999988
rad73	1.73023e-06	0.999993	2.44707e-06	0.999990
rad60anti	1.62672e-06	0.999994	2.30068e-06	0.999992
rad68anti	1.28205e-06	0.999996	1.81322e-06	0.999994
rad40syn	8.70429e-07	0.999996	1.23105e-06	0.999995
rad65	7.65686e-07	0.999997	1.08291e-06	0.999996
rad42	7.25369e-07	0.999998	1.02590e-06	0.999997
rad58	6.16762e-07	0.999999	8.72293e-07	0.999998
rad40anti	5.85898e-07	0.999999	8.28640e-07	0.999999
rad43	2.45120e-07	0.999999	3.46673e-07	0.999999
rad72	2.19453e-07	1.000000	3.10373e-07	1.000000
rad61	1.61750e-07	1.000000	2.28765e-07	1.000000
rad41	3.09947e-08	1.000000	4.38359e-08	1.000000
rad6	3.27072e-13	1.000000	4.62579e-13	1.000000
rad7	6.60249e-15	1.000000	9.33797e-15	1.000000
rad11	4.80257e-15	1.000000	6.79231e-15	1.000000
rad23	2.53266e-15	1.000000	3.58194e-15	1.000000
rad28	1.17771e-15	1.000000	1.66563e-15	1.000000
rad9	1.07182e-15	1.000000	1.51589e-15	1.000000
rad13	7.91326e-16	1.000000	1.11917e-15	1.000000
rad45	5.44930e-16	1.000000	7.70698e-16	1.000000
rad22	2.12475e-16	1.000000	3.00504e-16	1.000000
rad21	1.39345e-16	1.000000	1.97077e-16	1.000000
rad36	1.00122e-16	1.000000	1.41603e-16	1.000000
rad15	6.95111e-17	1.000000	9.83100e-17	1.000000
rad33	5.56576e-17	1.000000	7.87170e-17	1.000000
rad26	3.01016e-17	1.000000	4.25730e-17	1.000000
rad20	2.88827e-17	1.000000	4.08489e-17	1.000000
rad25	1.37165e-17	1.000000	1.93993e-17	1.000000
rad12	1.32606e-17	1.000000	1.87546e-17	1.000000
rad10	1.10911e-17	1.000000	1.56862e-17	1.000000
rad24	7.99114e-18	1.000000	1.13019e-17	1.000000
rad18	7.64139e-18	1.000000	1.08073e-17	1.000000
rad3	2.12510e-18	1.000000	3.00555e-18	1.000000
rad2	1.81916e-18	1.000000	2.57285e-18	1.000000
rad8	1.74700e-18	1.000000	2.47079e-18	1.000000
rad4	1.29904e-18	1.000000	1.83725e-18	1.000000
rad14	7.76880e-19	1.000000	1.09875e-18	1.000000
rad47	6.74962e-19	1.000000	9.54604e-19	1.000000
rad1	5.04218e-19	1.000000	7.13122e-19	1.000000
rad5	1.44646e-19	1.000000	2.04573e-19	1.000000
rad27	3.67277e-20	1.000000	5.19440e-20	1.000000

0.100000000E-04 Pa, 2750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.60596e-11 (1.00)	3.26255e-11 (1.00)
Formation of rad11	8.62280e-12 (0.187)	3.34633e-12 (0.103)
Formation of rad6	1.33313e-11 (0.289)	5.17360e-12 (0.159)
H-abstraction	2.41055e-11 (0.523)	2.41055e-11 (0.739)
species	PYtrue Cumul	PYeffective Cumul

Benzene+2-propynyl	0.523355	0.523355	0.738856	0.738856
Phenyl+Allene	0.291669	0.815024	0.00000	0.738856
PhCH2CCH+H	0.0913925	0.906416	0.129025	0.867881
PhCHCCH2+H	0.0440897	0.950506	0.0622446	0.930126
C2H2+PhCH2	0.0155259	0.966032	0.0219190	0.952045
PhCCH+CH3	0.0128664	0.978898	0.0181644	0.970209
Indene+H	0.00652675	0.985425	0.00921427	0.979424
PAH7+H	0.00506746	0.990493	0.00715408	0.986578
Ph+MeAc	0.00315047	0.993643	0.00444775	0.991026
PhcycC3H3_A+H	0.00197300	0.995616	0.00278544	0.993811
rad19syn	0.00143568	0.997052	0.00202686	0.995838
rad54	0.000652594	0.997704	0.000921315	0.996759
rad39	0.000584043	0.998288	0.000824532	0.997584
rad19anti	0.000328573	0.998617	0.000463869	0.998048
PAH9+H	0.000240059	0.998857	0.000338907	0.998386
PAH1+H	0.000158291	0.999015	0.000223471	0.998610
rad38	0.000149711	0.999165	0.000211358	0.998821
PhCCCH3+H	0.000136861	0.999302	0.000193216	0.999015
rad50	8.19601e-05	0.999384	0.000115709	0.999130
rad55	6.64334e-05	0.999450	9.37887e-05	0.999224
rad70	5.64830e-05	0.999507	7.97407e-05	0.999304
rad56	5.59920e-05	0.999563	7.90477e-05	0.999383
PAH10+CH3	5.49972e-05	0.999618	7.76435e-05	0.999460
rad46	5.29186e-05	0.999671	7.47090e-05	0.999535
PAH3+H	5.07704e-05	0.999721	7.16761e-05	0.999607
rad35	4.92117e-05	0.999771	6.94754e-05	0.999676
rad53	4.15958e-05	0.999812	5.87239e-05	0.999735
rad67	4.08893e-05	0.999853	5.77263e-05	0.999793
rad51	3.94231e-05	0.999893	5.56562e-05	0.999848
rad34	1.91382e-05	0.999912	2.70187e-05	0.999875
PAH8+H	1.42400e-05	0.999926	2.01036e-05	0.999896
rad30	1.30159e-05	0.999939	1.83754e-05	0.999914
rad37	1.25497e-05	0.999951	1.77173e-05	0.999932
rad52	9.23200e-06	0.999961	1.30335e-05	0.999945
rad62	6.96508e-06	0.999968	9.83308e-06	0.999954
rad71	6.06264e-06	0.999974	8.55906e-06	0.999963
rad64	4.12924e-06	0.999978	5.82954e-06	0.999969
rad59	4.06487e-06	0.999982	5.73866e-06	0.999975
rad73	2.98825e-06	0.999985	4.21872e-06	0.999979
rad68syn	2.93858e-06	0.999988	4.14861e-06	0.999983
rad60syn	2.38752e-06	0.999990	3.37063e-06	0.999986
rad68anti	1.88086e-06	0.999992	2.65533e-06	0.999989
rad60anti	1.71401e-06	0.999994	2.41979e-06	0.999991
rad40syn	1.39059e-06	0.999995	1.96319e-06	0.999993
rad42	1.00618e-06	0.999996	1.42050e-06	0.999995
rad65	9.77109e-07	0.999997	1.37945e-06	0.999996
rad40anti	9.60893e-07	0.999998	1.35656e-06	0.999998
rad58	8.26832e-07	0.999999	1.16730e-06	0.999999
rad72	4.93194e-07	1.000000	6.96274e-07	0.999999
rad43	2.90363e-07	1.000000	4.09925e-07	1.000000
rad61	2.19014e-07	1.000000	3.09197e-07	1.000000
rad41	4.25216e-08	1.000000	6.00307e-08	1.000000
rad6	1.11338e-13	1.000000	1.57183e-13	1.000000
rad7	2.96678e-15	1.000000	4.18840e-15	1.000000
rad11	2.05429e-15	1.000000	2.90018e-15	1.000000
rad23	8.65021e-16	1.000000	1.22121e-15	1.000000
rad9	4.49806e-16	1.000000	6.35023e-16	1.000000
rad28	4.01058e-16	1.000000	5.66204e-16	1.000000
rad13	3.84824e-16	1.000000	5.43283e-16	1.000000
rad45	2.34569e-16	1.000000	3.31159e-16	1.000000
rad22	7.92842e-17	1.000000	1.11931e-16	1.000000
rad21	7.20273e-17	1.000000	1.01686e-16	1.000000
rad36	4.37126e-17	1.000000	6.17122e-17	1.000000
rad15	3.20737e-17	1.000000	4.52807e-17	1.000000
rad33	3.15102e-17	1.000000	4.44850e-17	1.000000
rad20	1.44342e-17	1.000000	2.03778e-17	1.000000
rad26	1.23284e-17	1.000000	1.74049e-17	1.000000
rad12	7.84782e-18	1.000000	1.10793e-17	1.000000
rad25	7.63295e-18	1.000000	1.07760e-17	1.000000
rad10	4.79043e-18	1.000000	6.76302e-18	1.000000
rad24	4.65717e-18	1.000000	6.57484e-18	1.000000
rad18	3.38453e-18	1.000000	4.77817e-18	1.000000
rad8	1.52996e-18	1.000000	2.15996e-18	1.000000
rad3	9.87600e-19	1.000000	1.39426e-18	1.000000
rad47	8.69678e-19	1.000000	1.22779e-18	1.000000
rad2	6.44939e-19	1.000000	9.10503e-19	1.000000
rad4	5.93071e-19	1.000000	8.37281e-19	1.000000
rad14	4.74805e-19	1.000000	6.70314e-19	1.000000
rad1	1.69799e-19	1.000000	2.39717e-19	1.000000

rad5	1.01438e-19	1.00000	1.43206e-19	1.00000
rad27	2.15735e-20	1.00000	3.04569e-20	1.00000

0.100000000E-04 Pa, 3000.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	6.24269e-11	(1.00)	4.43911e-11	(1.00)
Formation of rad11	1.12221e-11	(0.180)	4.21269e-12	(0.0949)
Formation of rad6	1.76534e-11	(0.283)	6.62699e-12	(0.149)
H-abstraction	3.35514e-11	(0.537)	3.35514e-11	(0.756)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.537451	0.537451	0.755814	0.755814
Phenyl+Allene	0.288911	0.826362	0.00000	0.755814
PhCH2CCH+H	0.0883066	0.914669	0.124185	0.879999
PhCHCCH2+H	0.0408111	0.955480	0.0573925	0.937392
C2H2+PhCH2	0.0138651	0.969345	0.0194984	0.956890
PhCCH+CH3	0.0113582	0.980703	0.0159730	0.972863
PAH7+H	0.00465329	0.985356	0.00654386	0.979407
Indene+H	0.00463895	0.989995	0.00652370	0.985931
Ph+MeAc	0.00297587	0.992971	0.00418496	0.990116
PhcycC3H3_A+H	0.00245642	0.995427	0.00345445	0.993570
rad19syn	0.00161454	0.997042	0.00227052	0.995841
rad54	0.000727890	0.997770	0.00102362	0.996864
rad39	0.000500510	0.998270	0.000703861	0.997568
rad19anti	0.000275358	0.998546	0.000387232	0.997955
PAH9+H	0.000215435	0.998761	0.000302964	0.998258
PAH1+H	0.000185098	0.998946	0.000260302	0.998519
rad38	0.000138297	0.999085	0.000194486	0.998713
PhCCCH3+H	0.000118094	0.999203	0.000166074	0.998879
rad50	9.10199e-05	0.999294	0.000128001	0.999007
rad56	7.84307e-05	0.999372	0.000110297	0.999117
rad55	7.67854e-05	0.999449	0.000107983	0.999225
rad70	6.22156e-05	0.999511	8.74935e-05	0.999313
PAH3+H	5.79162e-05	0.999569	8.14472e-05	0.999394
PAH10+CH3	5.73435e-05	0.999626	8.06419e-05	0.999475
rad53	5.50942e-05	0.999682	7.74787e-05	0.999552
rad46	5.10964e-05	0.999733	7.18563e-05	0.999624
rad51	4.79927e-05	0.999781	6.74918e-05	0.999692
rad35	4.64038e-05	0.999827	6.52572e-05	0.999757
rad67	4.30004e-05	0.999870	6.04712e-05	0.999818
rad34	2.22803e-05	0.999892	3.13327e-05	0.999849
PAH8+H	2.20424e-05	0.999914	3.09982e-05	0.999880
rad30	1.19659e-05	0.999926	1.68276e-05	0.999897
rad37	1.08360e-05	0.999937	1.52386e-05	0.999912
rad52	1.06405e-05	0.999948	1.49636e-05	0.999927
rad71	9.97847e-06	0.999958	1.40327e-05	0.999941
rad62	8.52399e-06	0.999966	1.19872e-05	0.999953
rad64	4.99011e-06	0.999971	7.01754e-06	0.999960
rad73	4.56449e-06	0.999976	6.41901e-06	0.999966
rad59	4.47702e-06	0.999980	6.29599e-06	0.999973
rad68syn	4.00554e-06	0.999984	5.63295e-06	0.999978
rad68anti	2.55993e-06	0.999987	3.60001e-06	0.999982
rad60syn	2.46101e-06	0.999989	3.46090e-06	0.999985
rad40syn	2.03324e-06	0.999991	2.85932e-06	0.999988
rad60anti	1.78407e-06	0.999993	2.50894e-06	0.999991
rad40anti	1.43624e-06	0.999995	2.01978e-06	0.999993
rad42	1.37800e-06	0.999996	1.93787e-06	0.999995
rad65	1.15674e-06	0.999997	1.62672e-06	0.999996
rad58	1.05023e-06	0.999998	1.47693e-06	0.999998
rad72	9.39261e-07	0.999999	1.32087e-06	0.999999
rad43	3.36095e-07	0.999999	4.72649e-07	1.000000
rad61	2.73990e-07	1.000000	3.85311e-07	1.000000
rad41	5.56844e-08	1.000000	7.83087e-08	1.000000
rad6	4.41968e-14	1.000000	6.21536e-14	1.000000
rad7	1.48085e-15	1.000000	2.08251e-15	1.000000
rad11	9.86343e-16	1.000000	1.38709e-15	1.000000
rad23	3.32399e-16	1.000000	4.67450e-16	1.000000
rad13	2.05537e-16	1.000000	2.89045e-16	1.000000
rad9	2.03082e-16	1.000000	2.85593e-16	1.000000
rad28	1.59005e-16	1.000000	2.23608e-16	1.000000
rad45	1.09635e-16	1.000000	1.54178e-16	1.000000
rad21	4.05034e-17	1.000000	5.69598e-17	1.000000
rad22	3.36005e-17	1.000000	4.72522e-17	1.000000
rad36	2.06694e-17	1.000000	2.90674e-17	1.000000
rad33	1.89985e-17	1.000000	2.67174e-17	1.000000
rad15	1.57407e-17	1.000000	2.21360e-17	1.000000
rad20	8.22772e-18	1.000000	1.15706e-17	1.000000

rad26	5.53962e-18	1.000000	7.79034e-18	1.00000
rad12	4.82938e-18	1.000000	6.79149e-18	1.00000
rad25	4.56474e-18	1.000000	6.41938e-18	1.00000
rad24	2.85392e-18	1.000000	4.01344e-18	1.00000
rad10	2.30708e-18	1.000000	3.24442e-18	1.00000
rad18	1.70015e-18	1.000000	2.39092e-18	1.00000
rad8	1.34844e-18	1.000000	1.89630e-18	1.00000
rad47	1.03449e-18	1.000000	1.45480e-18	1.00000
rad3	5.15441e-19	1.000000	7.24861e-19	1.00000
rad14	3.16322e-19	1.000000	4.44841e-19	1.00000
rad4	3.07117e-19	1.000000	4.31897e-19	1.00000
rad2	2.79473e-19	1.000000	3.93022e-19	1.00000
rad5	7.37774e-20	1.000000	1.03753e-19	1.00000
rad1	6.91149e-20	1.000000	9.71962e-20	1.00000
rad27	1.40640e-20	1.000000	1.97781e-20	1.00000

0.100000000E-04 Pa, 3250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.22129e-11 (1.00)	5.87536e-11 (1.00)
Formation of rad11	1.42538e-11 (0.173)	5.21849e-12 (0.0888)
Formation of rad6	2.27549e-11 (0.277)	8.33083e-12 (0.142)
H-abstraction	4.52043e-11 (0.550)	4.52043e-11 (0.769)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.549844	0.549844	0.769388	0.769388
Phenyl+Allene	0.285349	0.835192	0.000000	0.769388
PhCH2CCH+H	0.0853725	0.920565	0.119460	0.888848
PhCHCCH2+H	0.0381839	0.958749	0.0534299	0.942278
C2H2+PhCH2	0.0128678	0.971617	0.0180057	0.960283
PhCCH+CH3	0.0101926	0.981809	0.0142623	0.974546
PAH7+H	0.00428274	0.986092	0.00599276	0.980539
Indene+H	0.00340695	0.989499	0.00476729	0.985306
PhcycC3H3_A+H	0.00292038	0.992419	0.00408643	0.989392
Ph+MeAc	0.00285191	0.995271	0.00399061	0.993383
rad19syn	0.00176005	0.997031	0.00246280	0.995846
rad54	0.000783510	0.997815	0.00109635	0.996942
rad39	0.000435199	0.998250	0.000608967	0.997551
rad19anti	0.000232598	0.998483	0.000325470	0.997876
PAH1+H	0.000210285	0.998693	0.000294248	0.998171
PAH9+H	0.000189946	0.998883	0.000265788	0.998436
rad38	0.000125074	0.999008	0.000175014	0.998611
PhCCCH3+H	0.000104499	0.999112	0.000146224	0.998758
rad56	0.000102496	0.999215	0.000143420	0.998901
rad50	9.64743e-05	0.999311	0.000134995	0.999036
rad55	8.51952e-05	0.999397	0.000119212	0.999155
rad53	6.86880e-05	0.999465	9.61137e-05	0.999251
rad70	6.67834e-05	0.999532	9.34486e-05	0.999345
PAH3+H	6.43467e-05	0.999596	9.00394e-05	0.999435
PAH10+CH3	5.80427e-05	0.999654	8.12183e-05	0.999516
rad51	5.49240e-05	0.999709	7.68541e-05	0.999593
rad46	4.80263e-05	0.999757	6.72021e-05	0.999660
rad67	4.40669e-05	0.999802	6.16619e-05	0.999722
rad35	4.33473e-05	0.999845	6.06552e-05	0.999783
PAH8+H	3.16111e-05	0.999876	4.42329e-05	0.999827
rad34	2.50786e-05	0.999902	3.50921e-05	0.999862
rad71	1.47743e-05	0.999916	2.06734e-05	0.999883
rad52	1.16170e-05	0.999928	1.62555e-05	0.999899
rad30	1.10774e-05	0.999939	1.55003e-05	0.999914
rad62	1.06705e-05	0.999950	1.49310e-05	0.999929
rad37	9.29424e-06	0.999959	1.30053e-05	0.999942
rad73	6.33743e-06	0.999965	8.86788e-06	0.999951
rad64	5.77649e-06	0.999971	8.08292e-06	0.999959
rad68syn	5.15348e-06	0.999976	7.21118e-06	0.999966
rad59	4.82486e-06	0.999981	6.75136e-06	0.999973
rad68anti	3.28964e-06	0.999984	4.60314e-06	0.999978
rad40syn	2.77792e-06	0.999987	3.88709e-06	0.999982
rad60syn	2.50929e-06	0.999990	3.51119e-06	0.999985
rad40anti	1.99952e-06	0.999992	2.79788e-06	0.999988
rad42	1.90464e-06	0.999994	2.66512e-06	0.999991
rad60anti	1.83422e-06	0.999995	2.56658e-06	0.999993
rad72	1.57365e-06	0.999997	2.20197e-06	0.999995
rad65	1.29208e-06	0.999998	1.80798e-06	0.999997
rad58	1.27682e-06	1.000000	1.78663e-06	0.999999
rad43	3.85029e-07	1.000000	5.38764e-07	1.000000
rad61	3.23853e-07	1.000000	4.53160e-07	1.000000
rad41	7.10639e-08	1.000000	9.94383e-08	1.000000
rad6	1.97784e-14	1.000000	2.76756e-14	1.000000

rad7	8.03367e-16	1.00000	1.12414e-15	1.00000
rad11	5.21690e-16	1.00000	7.29990e-16	1.00000
rad23	1.39938e-16	1.00000	1.95812e-16	1.00000
rad13	1.18526e-16	1.00000	1.65850e-16	1.00000
rad9	9.84298e-17	1.00000	1.37731e-16	1.00000
rad28	7.06840e-17	1.00000	9.89065e-17	1.00000
rad45	5.48398e-17	1.00000	7.67365e-17	1.00000
rad21	2.44315e-17	1.00000	3.41865e-17	1.00000
rad22	1.58063e-17	1.00000	2.21175e-17	1.00000
rad33	1.20474e-17	1.00000	1.68578e-17	1.00000
rad36	1.04355e-17	1.00000	1.46022e-17	1.00000
rad15	8.20378e-18	1.00000	1.14794e-17	1.00000
rad20	5.20430e-18	1.00000	7.28226e-18	1.00000
rad12	3.09374e-18	1.00000	4.32901e-18	1.00000
rad25	2.89947e-18	1.00000	4.05717e-18	1.00000
rad26	2.68112e-18	1.00000	3.75165e-18	1.00000
rad24	1.82403e-18	1.00000	2.55233e-18	1.00000
rad10	1.20179e-18	1.00000	1.68164e-18	1.00000
rad8	1.19193e-18	1.00000	1.66784e-18	1.00000
rad47	1.15640e-18	1.00000	1.61813e-18	1.00000
rad18	9.40390e-19	1.00000	1.31587e-18	1.00000
rad3	2.93935e-19	1.00000	4.11297e-19	1.00000
rad14	2.29549e-19	1.00000	3.21204e-19	1.00000
rad4	1.75929e-19	1.00000	2.46174e-19	1.00000
rad2	1.39212e-19	1.00000	1.94797e-19	1.00000
rad5	5.54264e-20	1.00000	7.75570e-20	1.00000
rad1	3.25225e-20	1.00000	4.55081e-20	1.00000
rad27	9.84685e-21	1.00000	1.37785e-20	1.00000

0.100000000E-04 Pa, 3500.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.05713e-10	(1.00)	7.59650e-11	(1.00)
Formation of rad11	1.77412e-11	(0.168)	6.37264e-12	(0.0839)
Formation of rad6	2.86822e-11	(0.271)	1.03027e-11	(0.136)
H-abstraction	5.92897e-11	(0.561)	5.92897e-11	(0.780)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.780487	0.780487
Phenyl+Allene	0.281404	0.842259	0.00000	0.780487
PhCH2CCH+H	0.0826656	0.924925	0.115037	0.895524
PhCHCCH2+H	0.0360585	0.960983	0.0501791	0.945703
C2H2+PhCH2	0.0122593	0.973242	0.0170600	0.962764
PhCCH+CH3	0.00927084	0.982513	0.0129013	0.975665
PAH7+H	0.00395025	0.986463	0.00549717	0.981162
PhcycC3H3_A+H	0.00334801	0.989811	0.00465910	0.985821
Ph+MeAc	0.00276398	0.992575	0.00384635	0.989667
Indene+H	0.00257590	0.995151	0.00358462	0.993252
rad19syn	0.00187235	0.997024	0.00260557	0.995858
rad54	0.000820548	0.997844	0.00114187	0.996999
rad39	0.000383055	0.998227	0.000533059	0.997533
PAH1+H	0.000234590	0.998462	0.000326455	0.997859
rad19anti	0.000198628	0.998661	0.000276411	0.998135
PAH9+H	0.000165224	0.998826	0.000229927	0.998365
rad56	0.000126873	0.998953	0.000176556	0.998542
rad38	0.000111229	0.999064	0.000154787	0.998697
rad50	9.85613e-05	0.999162	0.000137158	0.998834
PhCCCH3+H	9.42424e-05	0.999257	0.000131148	0.998965
rad55	9.15803e-05	0.999348	0.000127443	0.999092
rad53	8.16793e-05	0.999430	0.000113665	0.999206
rad70	7.02694e-05	0.999500	9.77871e-05	0.999304
PAH3+H	6.99220e-05	0.999570	9.73035e-05	0.999401
rad51	5.98507e-05	0.999630	8.32882e-05	0.999484
PAH10+CH3	5.76128e-05	0.999688	8.01742e-05	0.999565
rad67	4.43734e-05	0.999732	6.17501e-05	0.999626
rad46	4.41956e-05	0.999776	6.15029e-05	0.999688
PAH8+H	4.26935e-05	0.999819	5.94123e-05	0.999747
rad35	4.02805e-05	0.999859	5.60544e-05	0.999803
rad34	2.74951e-05	0.999887	3.82622e-05	0.999842
rad71	2.01281e-05	0.999907	2.80103e-05	0.999870
rad62	1.37116e-05	0.999920	1.90811e-05	0.999889
rad52	1.21501e-05	0.999933	1.69080e-05	0.999906
rad30	1.02915e-05	0.999943	1.43216e-05	0.999920
rad73	8.16310e-06	0.999951	1.13598e-05	0.999931
rad37	7.96636e-06	0.999959	1.10860e-05	0.999942
rad64	6.47621e-06	0.999966	9.01228e-06	0.999951
rad68syn	6.33612e-06	0.999972	8.81737e-06	0.999960
rad59	5.10458e-06	0.999977	7.10355e-06	0.999967

rad68anti	4.04059e-06	0.999981	5.62289e-06	0.999973
rad40syn	3.59895e-06	0.999985	5.00830e-06	0.999978
rad42	2.66321e-06	0.999987	3.70612e-06	0.999982
rad40anti	2.63316e-06	0.999990	3.66431e-06	0.999985
rad60syn	2.53258e-06	0.999992	3.52435e-06	0.999989
rad72	2.38441e-06	0.999995	3.31814e-06	0.999992
rad60anti	1.86455e-06	0.999997	2.59471e-06	0.999995
rad58	1.49815e-06	0.999998	2.08483e-06	0.999997
rad65	1.37925e-06	1.000000	1.91936e-06	0.999999
rad43	4.42452e-07	1.000000	6.15716e-07	0.999999
rad61	3.67258e-07	1.000000	5.11077e-07	1.000000
rad41	8.98821e-08	1.000000	1.25080e-07	1.000000
rad6	9.76203e-15	1.000000	1.35848e-14	1.000000
rad7	4.66100e-16	1.000000	6.48628e-16	1.000000
rad11	2.99100e-16	1.000000	4.16227e-16	1.000000
rad13	7.28305e-17	1.000000	1.01351e-16	1.000000
rad23	6.35219e-17	1.000000	8.83974e-17	1.000000
rad9	5.10120e-17	1.000000	7.09885e-17	1.000000
rad28	3.44832e-17	1.000000	4.79868e-17	1.000000
rad45	2.90149e-17	1.000000	4.03772e-17	1.000000
rad21	1.56206e-17	1.000000	2.17377e-17	1.000000
rad22	8.11756e-18	1.000000	1.12964e-17	1.000000
rad33	7.96109e-18	1.000000	1.10787e-17	1.000000
rad36	5.56085e-18	1.000000	7.73847e-18	1.000000
rad15	4.52583e-18	1.000000	6.29815e-18	1.000000
rad20	3.56498e-18	1.000000	4.96104e-18	1.000000
rad12	2.06000e-18	1.000000	2.86671e-18	1.000000
rad25	1.93599e-18	1.000000	2.69413e-18	1.000000
rad26	1.38460e-18	1.000000	1.92682e-18	1.000000
rad47	1.23125e-18	1.000000	1.71341e-18	1.000000
rad24	1.20836e-18	1.000000	1.68155e-18	1.000000
rad8	1.05361e-18	1.000000	1.46621e-18	1.000000
rad10	6.66148e-19	1.000000	9.27012e-19	1.000000
rad18	5.60033e-19	1.000000	7.79343e-19	1.000000
rad14	1.81848e-19	1.000000	2.53061e-19	1.000000
rad3	1.79655e-19	1.000000	2.50008e-19	1.000000
rad4	1.09298e-19	1.000000	1.52100e-19	1.000000
rad2	7.64543e-20	1.000000	1.06394e-19	1.000000
rad5	4.29550e-20	1.000000	5.97762e-20	1.000000
rad1	1.71491e-20	1.000000	2.38646e-20	1.000000
rad27	7.31080e-21	1.000000	1.01737e-20	1.000000

0.100000000E-04 Pa, 3750.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.33217e-10	(1.00)	9.62711e-11	(1.00)
Formation of rad11	2.17064e-11	(0.163)	7.68279e-12	(0.0798)
Formation of rad6	3.54800e-11	(0.266)	1.25578e-11	(0.130)
H-abstraction	7.60305e-11	(0.571)	7.60305e-11	(0.790)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789754	0.789754
Phenyl+Allene	0.277336	0.848063	0.000000	0.789754
PhCH2CCH+H	0.0801946	0.928257	0.110971	0.900725
PhCHCCH2+H	0.0343186	0.962576	0.0474891	0.948214
C2H2+PhCH2	0.0118838	0.974460	0.0164445	0.964658
PhCCH+CH3	0.00852836	0.982988	0.0118013	0.976459
PhcycC3H3_A+H	0.00372851	0.986717	0.00515939	0.981619
PAH7+H	0.00365085	0.990368	0.00505194	0.986671
Ph+MeAc	0.00270113	0.993069	0.00373773	0.990408
Indene+H	0.00199900	0.995068	0.00276616	0.993175
rad19syn	0.00195356	0.997021	0.00270328	0.995878
rad54	0.000841040	0.997862	0.00116381	0.997042
rad39	0.000340475	0.998203	0.000471138	0.997513
PAH1+H	0.000258935	0.998462	0.000358305	0.997871
rad19anti	0.000171610	0.998633	0.000237469	0.998109
rad56	0.000150421	0.998784	0.000208148	0.998317
PAH9+H	0.000142296	0.998926	0.000196904	0.998514
rad50	9.78214e-05	0.999024	0.000135362	0.998649
rad38	9.76287e-05	0.999121	0.000135095	0.998784
rad55	9.60227e-05	0.999217	0.000132873	0.998917
rad53	9.35446e-05	0.999311	0.000129444	0.999046
PhCCCH3+H	8.63448e-05	0.999397	0.000119481	0.999166
PAH3+H	7.46029e-05	0.999472	0.000103233	0.999269
rad70	7.27716e-05	0.999545	0.000100699	0.999370
rad51	6.27266e-05	0.999607	8.67994e-05	0.999457
PAH10+CH3	5.64592e-05	0.999664	7.81267e-05	0.999535
PAH8+H	5.49581e-05	0.999719	7.60493e-05	0.999611

rad67	4.41361e-05	0.999763	6.10741e-05	0.999672
rad46	4.00102e-05	0.999803	5.53649e-05	0.999727
rad35	3.73501e-05	0.999840	5.16839e-05	0.999779
rad34	2.95155e-05	0.999870	4.08426e-05	0.999820
rad71	2.56704e-05	0.999896	3.55219e-05	0.999855
rad62	1.78765e-05	0.999913	2.47369e-05	0.999880
rad52	1.22817e-05	0.999926	1.69950e-05	0.999897
rad73	9.90830e-06	0.999936	1.37108e-05	0.999911
rad30	9.58077e-06	0.999945	1.32576e-05	0.999924
rad68syn	7.51159e-06	0.999953	1.03943e-05	0.999934
rad64	7.08717e-06	0.999960	9.80700e-06	0.999944
rad37	6.84827e-06	0.999967	9.47639e-06	0.999954
rad59	5.31873e-06	0.999972	7.35989e-06	0.999961
rad68anti	4.78626e-06	0.999977	6.62308e-06	0.999968
rad40syn	4.46912e-06	0.999981	6.18422e-06	0.999974
rad42	3.72271e-06	0.999985	5.15138e-06	0.999979
rad72	3.33614e-06	0.999988	4.61643e-06	0.999984
rad40anti	3.31727e-06	0.999992	4.59032e-06	0.999988
rad60syn	2.53369e-06	0.999994	3.50604e-06	0.999992
rad60anti	1.87710e-06	0.999996	2.59748e-06	0.999994
rad58	1.70809e-06	0.999998	2.36361e-06	0.999997
rad65	1.42131e-06	0.999999	1.96676e-06	0.999999
rad43	5.13732e-07	1.000000	7.10883e-07	0.999999
rad61	4.03889e-07	1.000000	5.58888e-07	1.000000
rad41	1.13553e-07	1.000000	1.57130e-07	1.000000
rad6	5.22786e-15	1.000000	7.23414e-15	1.000000
rad7	2.85684e-16	1.000000	3.95321e-16	1.000000
rad11	1.83382e-16	1.000000	2.53758e-16	1.000000
rad13	4.71985e-17	1.000000	6.53121e-17	1.000000
rad23	3.07286e-17	1.000000	4.25212e-17	1.000000
rad9	2.81224e-17	1.000000	3.89148e-17	1.000000
rad28	1.81830e-17	1.000000	2.51610e-17	1.000000
rad45	1.60882e-17	1.000000	2.22623e-17	1.000000
rad21	1.04834e-17	1.000000	1.45067e-17	1.000000
rad33	5.44417e-18	1.000000	7.53345e-18	1.000000
rad22	4.49011e-18	1.000000	6.21323e-18	1.000000
rad36	3.09929e-18	1.000000	4.28868e-18	1.000000
rad15	2.63092e-18	1.000000	3.64060e-18	1.000000
rad20	2.59386e-18	1.000000	3.58930e-18	1.000000
rad12	1.42144e-18	1.000000	1.96695e-18	1.000000
rad25	1.34705e-18	1.000000	1.86401e-18	1.000000
rad47	1.26179e-18	1.000000	1.74602e-18	1.000000
rad8	9.29496e-19	1.000000	1.28621e-18	1.000000
rad24	8.25899e-19	1.000000	1.14285e-18	1.000000
rad26	7.57718e-19	1.000000	1.04851e-18	1.000000
rad10	3.88996e-19	1.000000	5.38280e-19	1.000000
rad18	3.53333e-19	1.000000	4.88931e-19	1.000000
rad14	1.56337e-19	1.000000	2.16335e-19	1.000000
rad3	1.16120e-19	1.000000	1.60683e-19	1.000000
rad4	7.24960e-20	1.000000	1.00318e-19	1.000000
rad2	4.51127e-20	1.000000	6.24252e-20	1.000000
rad5	3.42636e-20	1.000000	4.74130e-20	1.000000
rad1	9.91071e-21	1.000000	1.37141e-20	1.000000
rad27	5.73762e-21	1.000000	7.93956e-21	1.000000

0.100000000E-04 Pa, 4000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.65008e-10 (1.00)	1.19912e-10 (1.00)
Formation of rad11	2.61707e-11 (0.159)	9.15556e-12 (0.0764)
Formation of rad6	4.31906e-11 (0.262)	1.51098e-11 (0.126)
H-abstraction	9.56470e-11 (0.580)	9.56470e-11 (0.798)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.579650	0.579650	0.797641	0.797641
Phenyl+Allene	0.273295	0.852945	0.000000	0.797641
PhCH2CCH+H	0.0779435	0.930888	0.107256	0.904897
PhCHCCH2+H	0.0328766	0.963765	0.0452408	0.950138
C2H2+PhCH2	0.0116508	0.975415	0.0160323	0.966170
PhCCH+CH3	0.00792125	0.983337	0.0109003	0.977070
PhcycC3H3_A+H	0.00405636	0.987393	0.00558187	0.982652
PAH7+H	0.00338058	0.990774	0.00465193	0.987304
Ph+MeAc	0.00265534	0.993429	0.00365394	0.990958
rad19syn	0.00200699	0.995436	0.00276178	0.993720
Indene+H	0.00158840	0.997024	0.00218576	0.995906
rad54	0.000847468	0.997872	0.00116618	0.997072
rad39	0.000304994	0.998177	0.000419695	0.997491
PAH1+H	0.000284127	0.998461	0.000390980	0.997882

rad56	0.000172242	0.998633	0.000237017	0.998119
rad19anti	0.000149971	0.998783	0.000206372	0.998326
PAH9+H	0.000121736	0.998905	0.000167518	0.998493
rad53	0.000103935	0.999009	0.000143023	0.998636
rad55	9.87033e-05	0.999108	0.000135823	0.998772
rad50	9.49261e-05	0.999203	0.000130625	0.998903
rad38	8.48536e-05	0.999287	0.000116765	0.999020
PhCCCH3+H	8.02193e-05	0.999368	0.000110388	0.999130
PAH3+H	7.84218e-05	0.999446	0.000107914	0.999238
rad70	7.43978e-05	0.999520	0.000102377	0.999340
PAH8+H	6.80299e-05	0.999588	9.36140e-05	0.999434
rad51	6.37407e-05	0.999652	8.77122e-05	0.999522
PAH10+CH3	5.48776e-05	0.999707	7.55158e-05	0.999597
rad67	4.35168e-05	0.999751	5.98821e-05	0.999657
rad46	3.57792e-05	0.999786	4.92350e-05	0.999706
rad35	3.46400e-05	0.999821	4.76673e-05	0.999754
rad34	3.11445e-05	0.999852	4.28572e-05	0.999797
rad71	3.10563e-05	0.999883	4.27358e-05	0.999839
rad62	2.32398e-05	0.999906	3.19798e-05	0.999871
rad52	1.20851e-05	0.999919	1.66300e-05	0.999888
rad73	1.14710e-05	0.999930	1.57849e-05	0.999904
rad30	8.93299e-06	0.999939	1.22925e-05	0.999916
rad68syn	8.64434e-06	0.999948	1.18952e-05	0.999928
rad64	7.61305e-06	0.999955	1.04761e-05	0.999939
rad37	5.91727e-06	0.999961	8.14263e-06	0.999947
rad68anti	5.50424e-06	0.999967	7.57424e-06	0.999954
rad59	5.47385e-06	0.999972	7.53243e-06	0.999962
rad40syn	5.36170e-06	0.999977	7.37810e-06	0.999969
rad42	5.12142e-06	0.999983	7.04750e-06	0.999976
rad72	4.37871e-06	0.999987	6.02543e-06	0.999982
rad40anti	4.03125e-06	0.999991	5.54731e-06	0.999988
rad60syn	2.51669e-06	0.999993	3.46315e-06	0.999991
rad58	1.90267e-06	0.999995	2.61822e-06	0.999994
rad60anti	1.87487e-06	0.999997	2.57996e-06	0.999996
rad65	1.42564e-06	0.999999	1.96179e-06	0.999998
rad43	6.01849e-07	0.999999	8.28191e-07	0.999999
rad61	4.34037e-07	1.000000	5.97267e-07	1.000000
rad41	1.43043e-07	1.000000	1.96838e-07	1.000000
rad6	2.99901e-15	1.000000	4.12687e-15	1.000000
rad7	1.83271e-16	1.000000	2.52194e-16	1.000000
rad11	1.18912e-16	1.000000	1.63632e-16	1.000000
rad13	3.19990e-17	1.000000	4.40329e-17	1.000000
rad9	1.63967e-17	1.000000	2.25630e-17	1.000000
rad23	1.56966e-17	1.000000	2.15998e-17	1.000000
rad28	1.02416e-17	1.000000	1.40933e-17	1.000000
rad45	9.28361e-18	1.000000	1.27749e-17	1.000000
rad21	7.32814e-18	1.000000	1.00841e-17	1.000000
rad33	3.83235e-18	1.000000	5.27360e-18	1.000000
rad22	2.64549e-18	1.000000	3.64038e-18	1.000000
rad20	1.97582e-18	1.000000	2.71888e-18	1.000000
rad36	1.79420e-18	1.000000	2.46896e-18	1.000000
rad15	1.60349e-18	1.000000	2.20652e-18	1.000000
rad47	1.25502e-18	1.000000	1.72700e-18	1.000000
rad12	1.01281e-18	1.000000	1.39370e-18	1.000000
rad25	9.69849e-19	1.000000	1.33459e-18	1.000000
rad8	8.17489e-19	1.000000	1.12493e-18	1.000000
rad24	5.80458e-19	1.000000	7.98754e-19	1.000000
rad26	4.36824e-19	1.000000	6.01106e-19	1.000000
rad10	2.37711e-19	1.000000	3.27107e-19	1.000000
rad18	2.33495e-19	1.000000	3.21308e-19	1.000000
rad14	1.43353e-19	1.000000	1.97264e-19	1.000000
rad3	7.86177e-20	1.000000	1.08184e-19	1.000000
rad4	5.07056e-20	1.000000	6.97746e-20	1.000000
rad2	2.81629e-20	1.000000	3.87544e-20	1.000000
rad5	2.80392e-20	1.000000	3.85840e-20	1.000000
rad1	6.17217e-21	1.000000	8.49336e-21	1.000000
rad27	4.74794e-21	1.000000	6.53351e-21	1.000000

0.100000000E-05 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	1.56740e-51 (1.00)	1.56740e-51 (1.00)		
Formation of rad11	1.56740e-51 (1.000)	1.56740e-51 (1.000)		
Formation of rad6	3.73945e-60 (2.39e-09)	3.73945e-60 (2.39e-09)		
H-abstraction	1.53631e-76 (9.80e-26)	1.53631e-76 (9.80e-26)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987411	0.987411	0.987411	0.987411

C2H2+PhCH2	0.00818747	0.995598	0.00818747	0.995598
PhCCH+CH3	0.00217762	0.997776	0.00217762	0.997776
PhCHCCH2+H	0.00137751	0.999154	0.00137751	0.999154
PhCCCH3+H	0.000823354	0.999977	0.000823354	0.999977
Ph+MeAc	9.91712e-06	0.999987	9.91712e-06	0.999987
rad8	6.79362e-06	0.999994	6.79362e-06	0.999994
rad9	3.07751e-06	0.999997	3.07751e-06	0.999997
PAH7+H	1.74817e-06	0.999998	1.74817e-06	0.999998
rad6	8.94521e-07	0.999999	8.94521e-07	0.999999
rad30	4.35305e-07	1.000000	4.35305e-07	1.000000
rad12	2.09205e-07	1.000000	2.09205e-07	1.000000
rad39	1.68105e-07	1.000000	1.68105e-07	1.000000
PAH9+H	8.81109e-08	1.000000	8.81109e-08	1.000000
rad15	7.78995e-08	1.000000	7.78995e-08	1.000000
rad35	4.63895e-08	1.000000	4.63895e-08	1.000000
rad38	2.26371e-08	1.000000	2.26371e-08	1.000000
Phenyl+Allene	1.59521e-08	1.000000	0.000000	1.000000
rad28	2.94875e-09	1.000000	2.94875e-09	1.000000
rad2	3.30175e-10	1.000000	3.30175e-10	1.000000
rad26	2.47852e-10	1.000000	2.47852e-10	1.000000
rad46	1.46832e-10	1.000000	1.46832e-10	1.000000
rad7	6.45241e-11	1.000000	6.45241e-11	1.000000
rad1	2.08678e-11	1.000000	2.08678e-11	1.000000
rad10	1.68372e-11	1.000000	1.68372e-11	1.000000
rad11	1.57699e-11	1.000000	1.57699e-11	1.000000
rad60syn	3.49350e-12	1.000000	3.49350e-12	1.000000
rad3	2.13030e-12	1.000000	2.13030e-12	1.000000
rad4	1.07698e-12	1.000000	1.07698e-12	1.000000
rad13	3.58617e-13	1.000000	3.58617e-13	1.000000
rad14	3.06753e-15	1.000000	3.06753e-15	1.000000
rad25	1.55582e-15	1.000000	1.55582e-15	1.000000
rad33	6.77352e-16	1.000000	6.77352e-16	1.000000
rad27	4.53068e-16	1.000000	4.53068e-16	1.000000
rad60anti	4.48621e-16	1.000000	4.48621e-16	1.000000
PhCH2CCH+H	7.79467e-18	1.000000	7.79467e-18	1.000000
rad37	7.05170e-19	1.000000	7.05170e-19	1.000000
rad31	7.15574e-21	1.000000	7.15574e-21	1.000000
rad20	1.66776e-21	1.000000	1.66776e-21	1.000000
rad21	1.22843e-21	1.000000	1.22843e-21	1.000000
rad5	4.53435e-22	1.000000	4.53435e-22	1.000000
rad23	6.79388e-23	1.000000	6.79388e-23	1.000000
rad18	6.77695e-24	1.000000	6.77695e-24	1.000000
rad22	1.93838e-24	1.000000	1.93838e-24	1.000000
rad45	4.30524e-25	1.000000	4.30524e-25	1.000000
Benzene+2-propynyl	9.80165e-26	1.000000	9.80165e-26	1.000000
rad36	2.68183e-26	1.000000	2.68183e-26	1.000000
PAH3+H	8.05518e-27	1.000000	8.05518e-27	1.000000
rad59	4.31309e-27	1.000000	4.31309e-27	1.000000
rad50	1.73579e-27	1.000000	1.73579e-27	1.000000
rad24	4.88360e-29	1.000000	4.88360e-29	1.000000
rad19syn	6.39889e-36	1.000000	6.39889e-36	1.000000
rad52	7.69654e-40	1.000000	7.69654e-40	1.000000
rad54	7.40665e-41	1.000000	7.40665e-41	1.000000
PAH10+CH3	4.82760e-41	1.000000	4.82760e-41	1.000000
rad43	1.11376e-41	1.000000	1.11376e-41	1.000000
rad62	3.32288e-44	1.000000	3.32288e-44	1.000000
rad51	3.70929e-47	1.000000	3.70929e-47	1.000000
rad70	3.98869e-50	1.000000	3.98869e-50	1.000000
PhcycC3H3_A+H	1.68937e-50	1.000000	1.68937e-50	1.000000
rad55	9.09647e-51	1.000000	9.09647e-51	1.000000
rad65	2.49025e-52	1.000000	2.49025e-52	1.000000
rad58	5.67358e-54	1.000000	5.67358e-54	1.000000
PAH1+H	7.61510e-56	1.000000	7.61510e-56	1.000000
rad34	5.03880e-58	1.000000	5.03880e-58	1.000000
rad42	3.59501e-62	1.000000	3.59501e-62	1.000000
rad41	4.51167e-63	1.000000	4.51167e-63	1.000000
rad47	1.39164e-66	1.000000	1.39164e-66	1.000000

0.100000000E-05 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	5.03204e-39 (1.00)	5.03204e-39 (1.00)		
Formation of rad11	5.03203e-39 (1.000)	5.03203e-39 (1.000)		
Formation of rad6	9.92181e-45 (1.97e-06)	9.92181e-45 (1.97e-06)		
H-abstraction	3.33191e-55 (6.62e-17)	3.33191e-55 (6.62e-17)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987280	0.987280	0.987280	0.987280

C2H2+PhCH2	0.00825408	0.995534	0.00825408	0.995534
PhCCH+CH3	0.00221129	0.997745	0.00221129	0.997745
PhCHCCH2+H	0.00139577	0.999141	0.00139577	0.999141
PhCCCH3+H	0.000835514	0.999977	0.000835514	0.999977
Ph+MeAc	1.04014e-05	0.999987	1.04014e-05	0.999987
rad8	6.92315e-06	0.999994	6.92315e-06	0.999994
rad9	3.15630e-06	0.999997	3.15630e-06	0.999997
PAH7+H	1.79997e-06	0.999999	1.79997e-06	0.999999
rad30	4.40252e-07	0.999999	4.40252e-07	0.999999
rad12	2.15752e-07	1.000000	2.15752e-07	1.000000
rad39	1.75060e-07	1.000000	1.75060e-07	1.000000
rad6	1.09243e-07	1.000000	1.09243e-07	1.000000
PAH9+H	8.92267e-08	1.000000	8.92267e-08	1.000000
rad15	7.89749e-08	1.000000	7.89749e-08	1.000000
rad35	4.69148e-08	1.000000	4.69148e-08	1.000000
rad38	2.29505e-08	1.000000	2.29505e-08	1.000000
Phenyl+Allene	2.15063e-08	1.000000	0.000000	1.000000
rad28	5.53758e-10	1.000000	5.53758e-10	1.000000
rad46	1.50087e-10	1.000000	1.50087e-10	1.000000
rad26	4.81141e-11	1.000000	4.81141e-11	1.000000
rad2	3.90749e-11	1.000000	3.90749e-11	1.000000
rad7	7.88098e-12	1.000000	7.88098e-12	1.000000
rad60syn	3.50523e-12	1.000000	3.50523e-12	1.000000
rad1	2.47107e-12	1.000000	2.47107e-12	1.000000
rad10	1.99631e-12	1.000000	1.99631e-12	1.000000
rad11	1.92578e-12	1.000000	1.92578e-12	1.000000
rad3	2.54200e-13	1.000000	2.54200e-13	1.000000
rad4	1.28530e-13	1.000000	1.28530e-13	1.000000
rad13	4.38164e-14	1.000000	4.38164e-14	1.000000
rad14	1.11731e-15	1.000000	1.11731e-15	1.000000
rad60anti	8.52397e-16	1.000000	8.52397e-16	1.000000
rad25	5.48732e-16	1.000000	5.48732e-16	1.000000
rad27	1.02048e-16	1.000000	1.02048e-16	1.000000
rad33	8.27860e-17	1.000000	8.27860e-17	1.000000
Benzene+2-propynyl	6.62139e-17	1.000000	6.62139e-17	1.000000
PhCH2CCH+H	4.97327e-18	1.000000	4.97327e-18	1.000000
rad37	4.51450e-19	1.000000	4.51451e-19	1.000000
rad31	1.16578e-21	1.000000	1.16578e-21	1.000000
rad5	2.90811e-22	1.000000	2.90811e-22	1.000000
rad20	2.24381e-22	1.000000	2.24381e-22	1.000000
rad21	1.65930e-22	1.000000	1.65930e-22	1.000000
rad23	3.20582e-24	1.000000	3.20582e-24	1.000000
rad18	8.93113e-25	1.000000	8.93113e-25	1.000000
rad22	1.76907e-25	1.000000	1.76907e-25	1.000000
rad45	2.01087e-26	1.000000	2.01087e-26	1.000000
PAH3+H	5.18958e-27	1.000000	5.18958e-27	1.000000
rad59	2.77840e-27	1.000000	2.77840e-27	1.000000
rad36	1.25223e-27	1.000000	1.25223e-27	1.000000
rad50	1.11493e-27	1.000000	1.11493e-27	1.000000
rad24	1.03637e-29	1.000000	1.03637e-29	1.000000
rad19syn	4.26682e-36	1.000000	4.26682e-36	1.000000
rad52	5.11927e-40	1.000000	5.11927e-40	1.000000
rad54	5.01310e-41	1.000000	5.01310e-41	1.000000
PAH10+CH3	3.27966e-41	1.000000	3.27966e-41	1.000000
rad43	7.56626e-42	1.000000	7.56626e-42	1.000000
rad62	2.27374e-44	1.000000	2.27374e-44	1.000000
rad51	2.53268e-47	1.000000	2.53268e-47	1.000000
rad70	2.78399e-50	1.000000	2.78399e-50	1.000000
PhcycC3H3_A+H	1.18158e-50	1.000000	1.18158e-50	1.000000
rad55	6.36097e-51	1.000000	6.36097e-51	1.000000
rad65	1.72647e-52	1.000000	1.72647e-52	1.000000
rad58	3.97540e-54	1.000000	3.97540e-54	1.000000
PAH1+H	5.43141e-56	1.000000	5.43141e-56	1.000000
rad34	3.61097e-58	1.000000	3.61097e-58	1.000000
rad42	2.61279e-62	1.000000	2.61279e-62	1.000000
rad41	3.30444e-63	1.000000	3.30444e-63	1.000000
rad47	4.90612e-67	1.000000	4.90612e-67	1.000000

0.100000000E-05 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	9.35697e-33 (1.00)	9.35697e-33 (1.00)		
Formation of rad11	9.35644e-33 (1.000)	9.35644e-33 (1.000)		
Formation of rad6	5.26139e-37 (5.62e-05)	5.26138e-37 (5.62e-05)		
H-abstraction	1.44763e-44 (1.55e-12)	1.44763e-44 (1.55e-12)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987047	0.987047	0.987047	0.987047

C2H2+PhCH2	0.00837103	0.995418	0.00837103	0.995418
PhCCH+CH3	0.00227151	0.997690	0.00227151	0.997690
PhCHCCH2+H	0.00142805	0.999118	0.00142805	0.999118
PhCCCH3+H	0.000857113	0.999975	0.000857113	0.999975
Ph+MeAc	1.13615e-05	0.999986	1.13615e-05	0.999986
rad8	7.15833e-06	0.999993	7.15833e-06	0.999993
rad9	3.30508e-06	0.999997	3.30508e-06	0.999997
PAH7+H	1.89629e-06	0.999998	1.89629e-06	0.999998
rad30	4.49093e-07	0.999999	4.49093e-07	0.999999
rad12	2.27810e-07	0.999999	2.27810e-07	0.999999
rad39	1.88672e-07	0.999999	1.88672e-07	0.999999
PAH9+H	9.12409e-08	0.999999	9.12409e-08	0.999999
rad15	8.09189e-08	0.999999	8.09189e-08	0.999999
rad35	4.78565e-08	1.000000	4.78566e-08	1.000000
Phenyl+Allene	3.50244e-08	1.000000	0.000000	1.000000
rad6	3.36460e-08	1.000000	3.36460e-08	1.000000
rad38	2.35195e-08	1.000000	2.35195e-08	1.000000
rad28	2.21825e-10	1.000000	2.21825e-10	1.000000
rad46	1.56233e-10	1.000000	1.56233e-10	1.000000
rad26	2.00525e-11	1.000000	2.00525e-11	1.000000
rad2	1.18837e-11	1.000000	1.18837e-11	1.000000
rad60syn	3.60306e-12	1.000000	3.60306e-12	1.000000
rad7	2.42868e-12	1.000000	2.42868e-12	1.000000
Benzene+2-propynyl	1.54712e-12	1.000000	1.54712e-12	1.000000
rad1	7.52440e-13	1.000000	7.52440e-13	1.000000
rad10	6.07828e-13	1.000000	6.07828e-13	1.000000
rad11	5.93493e-13	1.000000	5.93493e-13	1.000000
rad3	7.76810e-14	1.000000	7.76810e-14	1.000000
rad4	3.92898e-14	1.000000	3.92898e-14	1.000000
rad13	1.35083e-14	1.000000	1.35083e-14	1.000000
rad60anti	1.06843e-14	1.000000	1.06843e-14	1.000000
rad14	6.57476e-16	1.000000	6.57476e-16	1.000000
rad25	3.21117e-16	1.000000	3.21117e-16	1.000000
rad27	5.03169e-17	1.000000	5.03169e-17	1.000000
rad33	2.55365e-17	1.000000	2.55365e-17	1.000000
PhCH2CCH+H	6.36045e-18	1.000000	6.36045e-18	1.000000
rad37	5.62687e-19	1.000000	5.62687e-19	1.000000
rad31	5.07740e-22	1.000000	5.07740e-22	1.000000
rad5	3.64134e-22	1.000000	3.64134e-22	1.000000
rad20	7.87934e-23	1.000000	7.87934e-23	1.000000
rad21	5.85660e-23	1.000000	5.85660e-23	1.000000
rad23	6.51496e-25	1.000000	6.51496e-25	1.000000
rad18	3.05709e-25	1.000000	3.05709e-25	1.000000
rad22	5.09945e-26	1.000000	5.09945e-26	1.000000
PAH3+H	6.59241e-27	1.000000	6.59241e-27	1.000000
rad45	4.07350e-27	1.000000	4.07350e-27	1.000000
rad59	3.52832e-27	1.000000	3.52832e-27	1.000000
rad50	1.40381e-27	1.000000	1.40381e-27	1.000000
rad36	2.53515e-28	1.000000	2.53515e-28	1.000000
rad24	5.38822e-30	1.000000	5.38822e-30	1.000000
rad19syn	5.88872e-36	1.000000	5.88872e-36	1.000000
rad52	7.02614e-40	1.000000	7.02615e-40	1.000000
rad54	7.14847e-41	1.000000	7.14847e-41	1.000000
PAH10+CH3	4.73118e-41	1.000000	4.73118e-41	1.000000
rad43	1.09117e-41	1.000000	1.09117e-41	1.000000
rad62	3.32608e-44	1.000000	3.32608e-44	1.000000
rad51	3.68049e-47	1.000000	3.68049e-47	1.000000
rad70	4.23961e-50	1.000000	4.23961e-50	1.000000
PhcycC3H3_A+H	1.80732e-50	1.000000	1.80732e-50	1.000000
rad55	9.72526e-51	1.000000	9.72526e-51	1.000000
rad65	2.59202e-52	1.000000	2.59202e-52	1.000000
rad58	6.10391e-54	1.000000	6.10391e-54	1.000000
PAH1+H	8.66425e-56	1.000000	8.66425e-56	1.000000
rad34	5.81404e-58	1.000000	5.81404e-58	1.000000
rad42	4.35492e-62	1.000000	4.35492e-62	1.000000
rad41	5.66657e-63	1.000000	5.66657e-63	1.000000
rad47	5.21975e-67	1.000000	5.21975e-67	1.000000

0.100000000E-05 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	5.52690e-29 (1.00)	5.52690e-29 (1.00)		
Formation of rad11	5.52459e-29 (1.000)	5.52459e-29 (1.000)		
Formation of rad6	2.30840e-32 (0.000418)	2.30840e-32 (0.000418)		
H-abstraction	3.35357e-38 (6.07e-10)	3.35357e-38 (6.07e-10)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.986726	0.986726	0.986726	0.986726

C2H2+PhCH2	0.00853167	0.995258	0.00853167	0.995258
PhCCH+CH3	0.00235532	0.997613	0.00235532	0.997613
PhCHCCH2+H	0.00147272	0.999086	0.00147272	0.999086
PhCCCH3+H	0.000887069	0.999973	0.000887069	0.999973
Ph+MeAc	1.27828e-05	0.999986	1.27828e-05	0.999986
rad8	7.48998e-06	0.999993	7.48998e-06	0.999993
rad9	3.51944e-06	0.999997	3.51944e-06	0.999997
PAH7+H	2.03359e-06	0.999999	2.03359e-06	0.999999
rad30	4.61353e-07	0.999999	4.61353e-07	0.999999
rad12	2.44553e-07	0.999999	2.44553e-07	0.999999
rad39	2.08944e-07	1.000000	2.08944e-07	1.000000
PAH9+H	9.40503e-08	1.000000	9.40503e-08	1.000000
rad15	8.36346e-08	1.000000	8.36346e-08	1.000000
Phenyl+Allene	5.85234e-08	1.000000	0.000000	1.000000
rad35	4.91655e-08	1.000000	4.91655e-08	1.000000
rad38	2.43157e-08	1.000000	2.43157e-08	1.000000
rad6	1.46125e-08	1.000000	1.46125e-08	1.000000
Benzene+2-propynyl	6.06773e-10	1.000000	6.06773e-10	1.000000
rad46	1.65088e-10	1.000000	1.65088e-10	1.000000
rad28	1.16336e-10	1.000000	1.16336e-10	1.000000
rad26	1.09037e-11	1.000000	1.09037e-11	1.000000
rad2	5.13177e-12	1.000000	5.13177e-12	1.000000
rad60syn	3.92699e-12	1.000000	3.92699e-12	1.000000
rad7	1.05570e-12	1.000000	1.05570e-12	1.000000
rad1	3.25498e-13	1.000000	3.25498e-13	1.000000
rad10	2.62726e-13	1.000000	2.62726e-13	1.000000
rad11	2.58016e-13	1.000000	2.58016e-13	1.000000
rad60anti	5.63735e-14	1.000000	5.63735e-14	1.000000
rad3	3.36409e-14	1.000000	3.36409e-14	1.000000
rad4	1.70226e-14	1.000000	1.70226e-14	1.000000
rad13	5.87492e-15	1.000000	5.87492e-15	1.000000
rad14	4.49428e-16	1.000000	4.49428e-16	1.000000
rad25	2.19606e-16	1.000000	2.19606e-16	1.000000
PhCH2CCH+H	1.41165e-16	1.000000	1.41165e-16	1.000000
rad27	3.16347e-17	1.000000	3.16347e-17	1.000000
rad33	1.11145e-17	1.000000	1.11145e-17	1.000000
rad37	4.33094e-18	1.000000	4.33094e-18	1.000000
rad5	1.83039e-21	1.000000	1.83039e-21	1.000000
rad31	3.15600e-22	1.000000	3.15600e-22	1.000000
rad20	3.99071e-23	1.000000	3.99071e-23	1.000000
rad21	2.98309e-23	1.000000	2.98309e-23	1.000000
rad23	2.29631e-25	1.000000	2.29631e-25	1.000000
rad18	1.50465e-25	1.000000	1.50465e-25	1.000000
rad22	2.24570e-26	1.000000	2.24570e-26	1.000000
PAH3+H	1.73984e-26	1.000000	1.73984e-26	1.000000
rad59	9.31008e-27	1.000000	9.31008e-27	1.000000
rad50	4.51411e-27	1.000000	4.51411e-27	1.000000
rad45	1.43429e-27	1.000000	1.43429e-27	1.000000
rad36	8.91933e-29	1.000000	8.91933e-29	1.000000
rad24	3.75087e-30	1.000000	3.75087e-30	1.000000
rad19syn	1.58940e-35	1.000000	1.58940e-35	1.000000
rad52	1.88164e-39	1.000000	1.88164e-39	1.000000
rad54	2.02090e-40	1.000000	2.02090e-40	1.000000
PAH10+CH3	1.37409e-40	1.000000	1.37409e-40	1.000000
rad43	3.16756e-41	1.000000	3.16756e-41	1.000000
rad62	9.81682e-44	1.000000	9.81682e-44	1.000000
rad51	1.06886e-46	1.000000	1.06886e-46	1.000000
rad70	1.31540e-49	1.000000	1.31540e-49	1.000000
PhcycC3H3_A+H	5.64252e-50	1.000000	5.64252e-50	1.000000
rad55	3.03432e-50	1.000000	3.03432e-50	1.000000
rad65	7.88302e-52	1.000000	7.88302e-52	1.000000
rad58	1.91597e-53	1.000000	1.91597e-53	1.000000
PAH1+H	2.87262e-55	1.000000	2.87262e-55	1.000000
rad34	1.95178e-57	1.000000	1.95178e-57	1.000000
rad42	1.57762e-61	1.000000	1.57762e-61	1.000000
rad41	2.27122e-62	1.000000	2.27122e-62	1.000000
rad47	1.29311e-66	1.000000	1.29311e-66	1.000000

0.100000000E-05 Pa, 60.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.83429e-26	(1.00)	1.83429e-26	(1.00)
Formation of rad11	1.83139e-26	(0.998)	1.83139e-26	(0.998)
Formation of rad6	2.90471e-29	(0.00158)	2.90471e-29	(0.00158)
H-abstraction	5.71259e-34	(3.11e-08)	5.71259e-34	(3.11e-08)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.986336	0.986336	0.986336	0.986336

C2H2+PhCH2	0.00872527	0.995061	0.00872527	0.995061
PhCCH+CH3	0.00245800	0.997519	0.00245800	0.997519
PhCHCCH2+H	0.00152709	0.999046	0.00152709	0.999046
PhCCCH3+H	0.000923616	0.999970	0.000923616	0.999970
Ph+MeAc	1.46513e-05	0.999985	1.46513e-05	0.999985
rad8	7.90141e-06	0.999992	7.90141e-06	0.999992
rad9	3.79129e-06	0.999996	3.79129e-06	0.999996
PAH7+H	2.20671e-06	0.999998	2.20672e-06	0.999998
rad30	4.76285e-07	0.999999	4.76285e-07	0.999999
rad12	2.65249e-07	0.999999	2.65249e-07	0.999999
rad39	2.35527e-07	0.999999	2.35527e-07	0.999999
PAH9+H	9.74964e-08	1.000000	9.74964e-08	1.000000
Phenyl+Allene	9.47686e-08	1.000000	0.000000	1.000000
rad15	8.69716e-08	1.000000	8.69716e-08	1.000000
rad35	5.07642e-08	1.000000	5.07642e-08	1.000000
Benzene+2-propynyl	3.11432e-08	1.000000	3.11432e-08	1.000000
rad38	2.52960e-08	1.000000	2.52960e-08	1.000000
rad6	7.58893e-09	1.000000	7.58893e-09	1.000000
rad46	1.76344e-10	1.000000	1.76344e-10	1.000000
rad28	6.99357e-11	1.000000	6.99357e-11	1.000000
rad26	6.77035e-12	1.000000	6.77035e-12	1.000000
rad60syn	4.51472e-12	1.000000	4.51472e-12	1.000000
rad2	2.66002e-12	1.000000	2.66002e-12	1.000000
rad7	5.48870e-13	1.000000	5.48870e-13	1.000000
rad1	1.69085e-13	1.000000	1.69085e-13	1.000000
rad60anti	1.68188e-13	1.000000	1.68188e-13	1.000000
rad10	1.36406e-13	1.000000	1.36406e-13	1.000000
rad11	1.34171e-13	1.000000	1.34171e-13	1.000000
rad3	1.75291e-14	1.000000	1.75291e-14	1.000000
rad4	8.87478e-15	1.000000	8.87478e-15	1.000000
PhCH2CCH+H	8.33152e-15	1.000000	8.33152e-15	1.000000
rad13	3.05636e-15	1.000000	3.05636e-15	1.000000
rad37	5.37825e-16	1.000000	5.37825e-16	1.000000
rad14	3.30335e-16	1.000000	3.30335e-16	1.000000
rad25	1.61874e-16	1.000000	1.61874e-16	1.000000
rad27	2.22373e-17	1.000000	2.22374e-17	1.000000
rad33	5.78754e-18	1.000000	5.78754e-18	1.000000
rad5	2.83184e-19	1.000000	2.83184e-19	1.000000
rad31	2.34893e-22	1.000000	2.34893e-22	1.000000
rad20	2.45297e-23	1.000000	2.45297e-23	1.000000
rad21	1.84446e-23	1.000000	1.84446e-23	1.000000
PAH3+H	2.27722e-24	1.000000	2.27723e-24	1.000000
rad59	1.23069e-24	1.000000	1.23069e-24	1.000000
rad50	7.57813e-25	1.000000	7.57813e-25	1.000000
rad23	1.08155e-25	1.000000	1.08155e-25	1.000000
rad18	8.96839e-26	1.000000	8.96839e-26	1.000000
rad22	1.23077e-26	1.000000	1.23077e-26	1.000000
rad45	6.75858e-28	1.000000	6.75858e-28	1.000000
rad36	4.19945e-29	1.000000	4.19945e-29	1.000000
rad24	2.99857e-30	1.000000	2.99857e-30	1.000000
rad19syn	1.05929e-34	1.000000	1.05929e-34	1.000000
rad52	1.24242e-38	1.000000	1.24242e-38	1.000000
rad54	1.42443e-39	1.000000	1.42443e-39	1.000000
PAH10+CH3	1.01378e-39	1.000000	1.01378e-39	1.000000
rad43	2.33587e-40	1.000000	2.33587e-40	1.000000
rad62	7.37327e-43	1.000000	7.37327e-43	1.000000
rad51	7.78569e-46	1.000000	7.78570e-46	1.000000
rad70	1.03809e-48	1.000000	1.03809e-48	1.000000
PhcycC3H3_A+H	4.48701e-49	1.000000	4.48701e-49	1.000000
rad55	2.41097e-49	1.000000	2.41097e-49	1.000000
rad65	6.07407e-51	1.000000	6.07407e-51	1.000000
rad58	1.53364e-52	1.000000	1.53364e-52	1.000000
PAH1+H	2.46210e-54	1.000000	2.46210e-54	1.000000
rad34	1.69671e-56	1.000000	1.69671e-56	1.000000
rad42	1.66403e-60	1.000000	1.66403e-60	1.000000
rad41	3.16674e-61	1.000000	3.16674e-61	1.000000
rad47	8.78142e-66	1.000000	8.78142e-66	1.000000

0.100000000E-05 Pa, 70.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.17336e-24	(1.00)	1.17336e-24	(1.00)
Formation of rad11	1.16857e-24	(0.996)	1.16857e-24	(0.996)
Formation of rad6	4.79505e-27	(0.00409)	4.79505e-27	(0.00409)
H-abstraction	5.89821e-31	(5.03e-07)	5.89821e-31	(5.03e-07)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.985886	0.985886	0.985886	0.985886

C2H2+PhCH2	0.00894689	0.994832	0.00894689	0.994832
PhCCH+CH3	0.00257786	0.997410	0.00257786	0.997410
PhCHCCH2+H	0.00159011	0.999000	0.00159011	0.999000
PhCCCH3+H	0.000966070	0.999966	0.000966070	0.999966
Ph+MeAc	1.70147e-05	0.999983	1.70147e-05	0.999983
rad8	8.38725e-06	0.999992	8.38725e-06	0.999992
rad9	4.11998e-06	0.999996	4.11998e-06	0.999996
PAH7+H	2.41578e-06	0.999998	2.41578e-06	0.999998
Benzene+2-propynyl	5.02676e-07	0.999999	5.02676e-07	0.999999
rad30	4.93588e-07	0.999999	4.93588e-07	0.999999
rad12	2.89961e-07	1.000000	2.89961e-07	1.000000
rad39	2.68838e-07	1.000000	2.68838e-07	1.000000
Phenyl+Allene	1.48209e-07	1.000000	0.000000	1.000000
PAH9+H	1.01525e-07	1.000000	1.01525e-07	1.000000
rad15	9.08772e-08	1.000000	9.08772e-08	1.000000
rad35	5.26231e-08	1.000000	5.26231e-08	1.000000
rad38	2.64470e-08	1.000000	2.64470e-08	1.000000
rad6	4.39863e-09	1.000000	4.39863e-09	1.000000
rad46	1.90039e-10	1.000000	1.90039e-10	1.000000
rad28	4.56493e-11	1.000000	4.56493e-11	1.000000
rad60syn	5.37357e-12	1.000000	5.37357e-12	1.000000
rad26	4.54991e-12	1.000000	4.54991e-12	1.000000
rad2	1.54339e-12	1.000000	1.54339e-12	1.000000
rad60anti	3.67294e-13	1.000000	3.67294e-13	1.000000
rad7	3.18525e-13	1.000000	3.18525e-13	1.000000
PhCH2CCH+H	1.69025e-13	1.000000	1.69025e-13	1.000000
rad1	9.83505e-14	1.000000	9.83505e-14	1.000000
rad10	7.92281e-14	1.000000	7.92281e-14	1.000000
rad11	7.78812e-14	1.000000	7.78812e-14	1.000000
rad37	2.03612e-14	1.000000	2.03612e-14	1.000000
rad3	1.01851e-14	1.000000	1.01851e-14	1.000000
rad4	5.15987e-15	1.000000	5.15987e-15	1.000000
rad13	1.77497e-15	1.000000	1.77497e-15	1.000000
rad14	2.53528e-16	1.000000	2.53528e-16	1.000000
rad25	1.24747e-16	1.000000	1.24747e-16	1.000000
rad27	1.66500e-17	1.000000	1.66500e-17	1.000000
rad5	1.57470e-17	1.000000	1.57470e-17	1.000000
rad33	3.36469e-18	1.000000	3.36469e-18	1.000000
PAH3+H	3.73225e-22	1.000000	3.73225e-22	1.000000
rad59	1.99513e-22	1.000000	1.99513e-22	1.000000
rad31	1.94990e-22	1.000000	1.94990e-22	1.000000
rad50	7.21547e-23	1.000000	7.21547e-23	1.000000
rad20	1.69917e-23	1.000000	1.69917e-23	1.000000
rad21	1.28530e-23	1.000000	1.28530e-23	1.000000
rad23	6.10412e-26	1.000000	6.10412e-26	1.000000
rad18	6.01438e-26	1.000000	6.01438e-26	1.000000
rad22	7.70294e-27	1.000000	7.70294e-27	1.000000
rad45	3.82227e-28	1.000000	3.82227e-28	1.000000
rad36	2.37311e-29	1.000000	2.37311e-29	1.000000
rad24	2.59799e-30	1.000000	2.59799e-30	1.000000
rad19syn	2.18606e-33	1.000000	2.18606e-33	1.000000
rad52	2.53784e-37	1.000000	2.53784e-37	1.000000
rad54	3.12925e-38	1.000000	3.12925e-38	1.000000
PAH10+CH3	2.29567e-38	1.000000	2.29567e-38	1.000000
rad43	5.28646e-39	1.000000	5.28646e-39	1.000000
rad62	1.72575e-41	1.000000	1.72575e-41	1.000000
rad51	1.77538e-44	1.000000	1.77538e-44	1.000000
rad70	2.59104e-47	1.000000	2.59104e-47	1.000000
PhcycC3H3_A+H	1.12979e-47	1.000000	1.12979e-47	1.000000
rad55	6.06469e-48	1.000000	6.06469e-48	1.000000
rad65	1.47646e-49	1.000000	1.47646e-49	1.000000
rad58	3.89076e-51	1.000000	3.89076e-51	1.000000
PAH1+H	6.77831e-53	1.000000	6.77831e-53	1.000000
rad34	4.74284e-55	1.000000	4.74284e-55	1.000000
rad42	6.64275e-59	1.000000	6.64275e-59	1.000000
rad41	1.79080e-59	1.000000	1.79080e-59	1.000000
rad47	1.98352e-64	1.000000	1.98352e-64	1.000000

0.100000000E-05 Pa, 80.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.68112e-23	(1.00)	2.68112e-23	(1.00)
Formation of rad11	2.65890e-23	(0.992)	2.65889e-23	(0.992)
Formation of rad6	2.22189e-25	(0.00829)	2.22189e-25	(0.00829)
H-abstraction	1.05871e-28	(3.95e-06)	1.05871e-28	(3.95e-06)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.985370	0.985370	0.985371	0.985371

C2H2+PhCH2	0.00919595	0.994566	0.00919596	0.994567
PhCCH+CH3	0.00271548	0.997282	0.00271548	0.997283
PhCHCCH2+H	0.00166190	0.998943	0.00166190	0.998944
PhCCCH3+H	0.00101455	0.999958	0.00101455	0.999959
Ph+MeAc	1.99735e-05	0.999978	1.99735e-05	0.999979
rad8	8.95106e-06	0.999987	8.95106e-06	0.999988
rad9	4.51120e-06	0.999991	4.51120e-06	0.999992
Benzene+2-propynyl	3.94877e-06	0.999995	3.94877e-06	0.999996
PAH7+H	2.66518e-06	0.999998	2.66518e-06	0.999999
rad30	5.13302e-07	0.999999	5.13302e-07	1.000000
rad12	3.19226e-07	0.999999	3.19226e-07	1.000000
rad39	3.10047e-07	0.999999	3.10047e-07	1.000000
Phenyl+Allene	2.25443e-07	0.999999	0.000000	1.000000
PAH9+H	1.06161e-07	1.000000	1.06161e-07	1.000000
rad15	9.53738e-08	1.000000	9.53739e-08	1.000000
rad35	5.47491e-08	1.000000	5.47491e-08	1.000000
rad38	2.77780e-08	1.000000	2.77780e-08	1.000000
rad6	2.74504e-09	1.000000	2.74505e-09	1.000000
rad46	2.06501e-10	1.000000	2.06501e-10	1.000000
rad28	3.14694e-11	1.000000	3.14694e-11	1.000000
rad60syn	6.53784e-12	1.000000	6.53784e-12	1.000000
rad26	3.22085e-12	1.000000	3.22085e-12	1.000000
PhCH2CCH+H	1.67934e-12	1.000000	1.67934e-12	1.000000
rad2	9.65962e-13	1.000000	9.65962e-13	1.000000
rad60anti	6.70526e-13	1.000000	6.70526e-13	1.000000
rad37	3.02172e-13	1.000000	3.02172e-13	1.000000
rad7	1.99051e-13	1.000000	1.99051e-13	1.000000
rad1	6.17267e-14	1.000000	6.17267e-14	1.000000
rad10	4.96733e-14	1.000000	4.96734e-14	1.000000
rad11	4.86818e-14	1.000000	4.86819e-14	1.000000
rad3	6.40367e-15	1.000000	6.40367e-15	1.000000
rad4	3.24650e-15	1.000000	3.24650e-15	1.000000
rad13	1.11008e-15	1.000000	1.11008e-15	1.000000
rad5	3.25370e-16	1.000000	3.25370e-16	1.000000
rad14	2.00218e-16	1.000000	2.00218e-16	1.000000
rad25	9.89974e-17	1.000000	9.89974e-17	1.000000
rad27	1.29764e-17	1.000000	1.29764e-17	1.000000
rad33	2.10686e-18	1.000000	2.10686e-18	1.000000
PAH3+H	1.74327e-20	1.000000	1.74327e-20	1.000000
rad59	9.08687e-21	1.000000	9.08687e-21	1.000000
rad50	2.22994e-21	1.000000	2.22994e-21	1.000000
rad31	1.74289e-22	1.000000	1.74289e-22	1.000000
rad20	1.27556e-23	1.000000	1.27556e-23	1.000000
rad21	9.70634e-24	1.000000	9.70634e-24	1.000000
rad18	4.36533e-26	1.000000	4.36533e-26	1.000000
rad23	3.90935e-26	1.000000	3.90935e-26	1.000000
rad22	5.26573e-27	1.000000	5.26574e-27	1.000000
rad19syn	3.50774e-28	1.000000	3.50774e-28	1.000000
rad45	2.45851e-28	1.000000	2.45851e-28	1.000000
rad36	1.52535e-29	1.000000	1.52535e-29	1.000000
rad24	2.37294e-30	1.000000	2.37294e-30	1.000000
rad52	3.70884e-32	1.000000	3.70884e-32	1.000000
rad54	3.49267e-36	1.000000	3.49267e-36	1.000000
PAH10+CH3	2.44080e-36	1.000000	2.44080e-36	1.000000
rad43	5.61514e-37	1.000000	5.61514e-37	1.000000
rad62	1.94606e-39	1.000000	1.94606e-39	1.000000
rad51	2.05980e-42	1.000000	2.05980e-42	1.000000
rad70	3.30212e-45	1.000000	3.30212e-45	1.000000
PhcycC3H3_A+H	1.45291e-45	1.000000	1.45291e-45	1.000000
rad55	7.79100e-46	1.000000	7.79100e-46	1.000000
rad65	1.83063e-47	1.000000	1.83063e-47	1.000000
rad58	5.04235e-49	1.000000	5.04235e-49	1.000000
PAH1+H	9.57247e-51	1.000000	9.57247e-51	1.000000
rad34	6.79291e-53	1.000000	6.79291e-53	1.000000
rad42	1.11888e-56	1.000000	1.11888e-56	1.000000
rad41	3.34320e-57	1.000000	3.34320e-57	1.000000
rad47	2.35609e-62	1.000000	2.35609e-62	1.000000

0.100000000E-05 Pa, 90.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.08379e-22	(1.00)	3.08379e-22	(1.00)
Formation of rad11	3.03962e-22	(0.986)	3.03962e-22	(0.986)
Formation of rad6	4.41076e-24	(0.0143)	4.41076e-24	(0.0143)
H-abstraction	5.92916e-27	(1.92e-05)	5.92916e-27	(1.92e-05)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.984779	0.984779	0.984779	0.984779

C2H2+PhCH2	0.00947389	0.994253	0.00947389	0.994253
PhCCH+CH3	0.00287245	0.997125	0.00287246	0.997125
PhCHCCH2+H	0.00174312	0.998869	0.00174312	0.998869
PhCCCH3+H	0.00106950	0.999938	0.00106950	0.999938
Ph+MeAc	2.36635e-05	0.999962	2.36635e-05	0.999962
Benzene+2-propynyl	1.92269e-05	0.999981	1.92269e-05	0.999981
rad8	9.60090e-06	0.999991	9.60090e-06	0.999991
rad9	4.97439e-06	0.999995	4.97440e-06	0.999995
PAH7+H	2.96190e-06	0.999998	2.96190e-06	0.999998
rad30	5.35632e-07	0.999999	5.35632e-07	0.999999
rad39	3.60832e-07	0.999999	3.60832e-07	0.999999
rad12	3.53779e-07	1.000000	3.53779e-07	1.000000
Phenyl+Allene	3.35457e-07	1.000000	0.000000	1.000000
PAH9+H	1.11470e-07	1.000000	1.11470e-07	1.000000
rad15	1.00523e-07	1.000000	1.00523e-07	1.000000
rad35	5.71675e-08	1.000000	5.71676e-08	1.000000
rad38	2.93104e-08	1.000000	2.93104e-08	1.000000
rad6	1.80571e-09	1.000000	1.80571e-09	1.000000
rad46	2.26242e-10	1.000000	2.26242e-10	1.000000
rad28	2.25421e-11	1.000000	2.25421e-11	1.000000
PhCH2CCH+H	1.03761e-11	1.000000	1.03761e-11	1.000000
rad60syn	8.08081e-12	1.000000	8.08081e-12	1.000000
rad37	2.40347e-12	1.000000	2.40348e-12	1.000000
rad26	2.36399e-12	1.000000	2.36399e-12	1.000000
rad60anti	1.09912e-12	1.000000	1.09912e-12	1.000000
rad2	6.39101e-13	1.000000	6.39102e-13	1.000000
rad7	1.31126e-13	1.000000	1.31126e-13	1.000000
rad1	4.09654e-14	1.000000	4.09654e-14	1.000000
rad10	3.29037e-14	1.000000	3.29037e-14	1.000000
rad11	3.20789e-14	1.000000	3.20789e-14	1.000000
rad3	4.25356e-15	1.000000	4.25356e-15	1.000000
rad5	3.47593e-15	1.000000	3.47593e-15	1.000000
rad4	2.15817e-15	1.000000	2.15817e-15	1.000000
rad13	7.31901e-16	1.000000	7.31901e-16	1.000000
rad14	1.61299e-16	1.000000	1.61299e-16	1.000000
rad25	8.01866e-17	1.000000	8.01866e-17	1.000000
rad27	1.03930e-17	1.000000	1.03930e-17	1.000000
rad33	1.39098e-18	1.000000	1.39098e-18	1.000000
PAH3+H	3.47561e-19	1.000000	3.47561e-19	1.000000
rad59	1.74985e-19	1.000000	1.74985e-19	1.000000
rad50	3.24557e-20	1.000000	3.24557e-20	1.000000
rad31	1.64444e-22	1.000000	1.64444e-22	1.000000
rad20	1.01384e-23	1.000000	1.01384e-23	1.000000
rad21	7.76062e-24	1.000000	7.76062e-24	1.000000
rad19syn	1.46109e-25	1.000000	1.46109e-25	1.000000
rad18	3.35079e-26	1.000000	3.35079e-26	1.000000
rad23	2.75910e-26	1.000000	2.75910e-26	1.000000
rad22	3.83010e-27	1.000000	3.83010e-27	1.000000
rad45	1.74384e-28	1.000000	1.74384e-28	1.000000
rad52	1.23086e-29	1.000000	1.23086e-29	1.000000
rad36	1.08135e-29	1.000000	1.08135e-29	1.000000
rad54	6.85483e-30	1.000000	6.85484e-30	1.000000
PAH10+CH3	3.93008e-30	1.000000	3.93008e-30	1.000000
rad24	2.25021e-30	1.000000	2.25021e-30	1.000000
rad43	9.86470e-31	1.000000	9.86470e-31	1.000000
rad62	7.45719e-37	1.000000	7.45719e-37	1.000000
rad51	8.13718e-40	1.000000	8.13719e-40	1.000000
rad70	1.43722e-42	1.000000	1.43722e-42	1.000000
PhcycC3H3_A+H	6.38160e-43	1.000000	6.38160e-43	1.000000
rad55	3.41828e-43	1.000000	3.41828e-43	1.000000
rad65	7.73853e-45	1.000000	7.73853e-45	1.000000
rad58	2.23190e-46	1.000000	2.23190e-46	1.000000
PAH1+H	4.60041e-48	1.000000	4.60041e-48	1.000000
rad34	3.31378e-50	1.000000	3.31378e-50	1.000000
rad42	5.22472e-54	1.000000	5.22472e-54	1.000000
rad41	1.49052e-54	1.000000	1.49052e-54	1.000000
rad47	9.71665e-60	1.000000	9.71665e-60	1.000000

0.100000000E-05 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)		
Formation of rad11	2.14498e-21 (0.978)	2.14497e-21 (0.978)		
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)		
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.984084	0.984084	0.984085	0.984085

C2H2+PhCH2	0.00978254	0.993867	0.00978255	0.993868
PhCCH+CH3	0.00305066	0.996917	0.00305066	0.996918
PhCHCCH2+H	0.00183450	0.998752	0.00183450	0.998753
PhCCCH3+H	0.00113146	0.999883	0.00113146	0.999884
Benzene+2-propynyl	6.70630e-05	0.999950	6.70630e-05	0.999951
Ph+MeAc	2.82452e-05	0.999978	2.82452e-05	0.999979
rad8	1.03461e-05	0.999989	1.03461e-05	0.999990
rad9	5.52090e-06	0.999994	5.52090e-06	0.999995
PAH7+H	3.31435e-06	0.999998	3.31435e-06	0.999999
rad30	5.60830e-07	0.999998	5.60830e-07	0.999999
Phenyl+Allene	4.89886e-07	0.999999	0.000000	0.999999
rad39	4.23208e-07	0.999999	4.23208e-07	1.000000
rad12	3.94419e-07	1.000000	3.94419e-07	1.000000
PAH9+H	1.17534e-07	1.000000	1.17534e-07	1.000000
rad15	1.06398e-07	1.000000	1.06398e-07	1.000000
rad35	5.99096e-08	1.000000	5.99096e-08	1.000000
rad38	3.10705e-08	1.000000	3.10705e-08	1.000000
rad6	1.23504e-09	1.000000	1.23504e-09	1.000000
rad46	2.49893e-10	1.000000	2.49894e-10	1.000000
PhCH2CCH+H	4.60491e-11	1.000000	4.60491e-11	1.000000
rad28	1.66048e-11	1.000000	1.66049e-11	1.000000
rad37	1.23990e-11	1.000000	1.23990e-11	1.000000
rad60syn	1.01100e-11	1.000000	1.01100e-11	1.000000
rad26	1.78107e-12	1.000000	1.78107e-12	1.000000
rad60anti	1.68416e-12	1.000000	1.68416e-12	1.000000
rad2	4.41351e-13	1.000000	4.41351e-13	1.000000
rad7	8.98238e-14	1.000000	8.98239e-14	1.000000
rad1	2.83852e-14	1.000000	2.83853e-14	1.000000
rad5	2.34961e-14	1.000000	2.34961e-14	1.000000
rad10	2.27356e-14	1.000000	2.27356e-14	1.000000
rad11	2.19813e-14	1.000000	2.19813e-14	1.000000
rad3	2.93890e-15	1.000000	2.93890e-15	1.000000
rad4	1.49245e-15	1.000000	1.49246e-15	1.000000
rad13	5.01820e-16	1.000000	5.01820e-16	1.000000
rad14	1.31827e-16	1.000000	1.31827e-16	1.000000
rad25	6.59173e-17	1.000000	6.59174e-17	1.000000
rad27	8.48696e-18	1.000000	8.48696e-18	1.000000
PAH3+H	3.83490e-18	1.000000	3.83490e-18	1.000000
rad59	1.85456e-18	1.000000	1.85457e-18	1.000000
rad33	9.55140e-19	1.000000	9.55140e-19	1.000000
rad50	2.80683e-19	1.000000	2.80683e-19	1.000000
rad31	1.61816e-22	1.000000	1.61816e-22	1.000000
rad19syn	1.69259e-23	1.000000	1.69259e-23	1.000000
rad20	8.40566e-24	1.000000	8.40567e-24	1.000000
rad21	6.47225e-24	1.000000	6.47226e-24	1.000000
rad18	2.67997e-26	1.000000	2.67997e-26	1.000000
rad23	2.11311e-26	1.000000	2.11311e-26	1.000000
rad54	3.44322e-27	1.000000	3.44322e-27	1.000000
rad22	2.91521e-27	1.000000	2.91521e-27	1.000000
PAH10+CH3	2.22556e-27	1.000000	2.22556e-27	1.000000
rad52	1.20086e-27	1.000000	1.20086e-27	1.000000
rad43	5.29889e-28	1.000000	5.29890e-28	1.000000
rad45	1.34525e-28	1.000000	1.34525e-28	1.000000
rad36	8.33850e-30	1.000000	8.33850e-30	1.000000
rad62	6.92575e-30	1.000000	6.92576e-30	1.000000
rad24	2.19501e-30	1.000000	2.19502e-30	1.000000
rad51	7.64893e-33	1.000000	7.64894e-33	1.000000
rad70	1.30436e-39	1.000000	1.30436e-39	1.000000
PhcycC3H3_A+H	5.84663e-40	1.000000	5.84663e-40	1.000000
rad55	3.12808e-40	1.000000	3.12808e-40	1.000000
rad65	6.80797e-42	1.000000	6.80798e-42	1.000000
rad58	2.06108e-43	1.000000	2.06108e-43	1.000000
PAH1+H	4.61659e-45	1.000000	4.61659e-45	1.000000
rad34	3.37700e-47	1.000000	3.37700e-47	1.000000
rad42	4.72713e-51	1.000000	4.72713e-51	1.000000
rad41	1.17352e-51	1.000000	1.17352e-51	1.000000
rad47	8.46388e-57	1.000000	8.46389e-57	1.000000

0.100000000E-05 Pa, 110.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.09987e-20	(1.00)	1.09987e-20	(1.00)
Formation of rad11	1.06527e-20	(0.969)	1.06526e-20	(0.969)
Formation of rad6	3.44008e-22	(0.0313)	3.44007e-22	(0.0313)
H-abstraction	2.02040e-24	(0.000184)	2.02040e-24	(0.000184)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.983245	0.983245	0.983246	0.983246

C2H2+PhCH2	0.0101236	0.993369	0.0101236	0.993370
PhCCH+CH3	0.00325181	0.996621	0.00325181	0.996622
PhCHCCH2+H	0.00193671	0.998558	0.00193671	0.998559
PhCCCH3+H	0.00120092	0.999758	0.00120092	0.999759
Benzene+2-propynyl	0.000183695	0.999942	0.000183695	0.999943
Ph+MeAc	3.38991e-05	0.999976	3.38991e-05	0.999977
rad8	1.11961e-05	0.999987	1.11961e-05	0.999988
rad9	6.16316e-06	0.999993	6.16316e-06	0.999994
PAH7+H	3.73185e-06	0.999997	3.73186e-06	0.999998
Phenyl+Allene	7.03502e-07	0.999998	0.00000	0.999998
rad30	5.89151e-07	0.999998	5.89151e-07	0.999999
rad39	4.99464e-07	0.999999	4.99464e-07	0.999999
rad12	4.41958e-07	0.999999	4.41958e-07	1.000000
PAH9+H	1.24438e-07	0.999999	1.24439e-07	1.000000
rad15	1.13078e-07	1.000000	1.13078e-07	1.000000
rad35	6.30073e-08	1.000000	6.30073e-08	1.000000
rad38	3.30861e-08	1.000000	3.30861e-08	1.000000
rad6	8.70233e-10	1.000000	8.70233e-10	1.000000
rad46	2.78185e-10	1.000000	2.78185e-10	1.000000
PhCH2CCH+H	1.60841e-10	1.000000	1.60841e-10	1.000000
rad37	4.68247e-11	1.000000	4.68247e-11	1.000000
rad60syn	1.27639e-11	1.000000	1.27639e-11	1.000000
rad28	1.24904e-11	1.000000	1.24904e-11	1.000000
rad60anti	2.46954e-12	1.000000	2.46954e-12	1.000000
rad26	1.36825e-12	1.000000	1.36825e-12	1.000000
rad2	3.14305e-13	1.000000	3.14305e-13	1.000000
rad5	1.14171e-13	1.000000	1.14171e-13	1.000000
rad7	6.33941e-14	1.000000	6.33941e-14	1.000000
rad1	2.02887e-14	1.000000	2.02887e-14	1.000000
rad10	1.62216e-14	1.000000	1.62216e-14	1.000000
rad11	1.55186e-14	1.000000	1.55186e-14	1.000000
rad3	2.11022e-15	1.000000	2.11022e-15	1.000000
rad4	1.07266e-15	1.000000	1.07266e-15	1.000000
rad13	3.54509e-16	1.000000	3.54509e-16	1.000000
rad14	1.08893e-16	1.000000	1.08893e-16	1.000000
rad25	5.47855e-17	1.000000	5.47855e-17	1.000000
PAH3+H	2.76215e-17	1.000000	2.76215e-17	1.000000
rad59	1.27979e-17	1.000000	1.27979e-17	1.000000
rad27	7.03019e-18	1.000000	7.03019e-18	1.000000
rad50	1.67184e-18	1.000000	1.67184e-18	1.000000
rad33	6.75867e-19	1.000000	6.75867e-19	1.000000
rad19syn	8.11792e-22	1.000000	8.11793e-22	1.000000
rad31	1.64804e-22	1.000000	1.64805e-22	1.000000
rad20	7.19728e-24	1.000000	7.19728e-24	1.000000
rad21	5.57452e-24	1.000000	5.57453e-24	1.000000
rad54	3.80819e-25	1.000000	3.80819e-25	1.000000
PAH10+CH3	2.48851e-25	1.000000	2.48852e-25	1.000000
rad43	5.95378e-26	1.000000	5.95379e-26	1.000000
rad52	5.03874e-26	1.000000	5.03874e-26	1.000000
rad18	2.21119e-26	1.000000	2.21119e-26	1.000000
rad23	1.74440e-26	1.000000	1.74440e-26	1.000000
rad22	2.29608e-27	1.000000	2.29608e-27	1.000000
rad62	1.37871e-27	1.000000	1.37871e-27	1.000000
rad45	1.12488e-28	1.000000	1.12488e-28	1.000000
rad36	6.97094e-30	1.000000	6.97095e-30	1.000000
rad24	2.18972e-30	1.000000	2.18973e-30	1.000000
rad51	1.43630e-30	1.000000	1.43630e-30	1.000000
rad65	1.70797e-34	1.000000	1.70797e-34	1.000000
rad70	1.18251e-36	1.000000	1.18251e-36	1.000000
PhcycC3H3_A+H	5.35280e-37	1.000000	5.35280e-37	1.000000
rad55	2.86024e-37	1.000000	2.86024e-37	1.000000
rad58	1.90252e-40	1.000000	1.90252e-40	1.000000
PAH1+H	4.64379e-42	1.000000	4.64379e-42	1.000000
rad34	3.45454e-44	1.000000	3.45454e-44	1.000000
rad42	4.47826e-48	1.000000	4.47827e-48	1.000000
rad41	9.57209e-49	1.000000	9.57209e-49	1.000000
rad47	7.45896e-54	1.000000	7.45896e-54	1.000000

0.100000000E-05 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)		
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)		
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)		
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.982208	0.982208	0.982209	0.982209

C2H2+PhCH2	0.0104985	0.992707	0.0104985	0.992708
PhCCH+CH3	0.00347748	0.996184	0.00347748	0.996185
PhCHCCH2+H	0.00205033	0.998235	0.00205033	0.998236
PhCCCH3+H	0.00127823	0.999513	0.00127823	0.999514
Benzene+2-propynyl	0.000420064	0.999933	0.000420064	0.999934
Ph+MeAc	4.08270e-05	0.999974	4.08270e-05	0.999975
rad8	1.21596e-05	0.999986	1.21596e-05	0.999987
rad9	6.91456e-06	0.999993	6.91457e-06	0.999994
PAH7+H	4.22471e-06	0.999997	4.22471e-06	0.999998
Phenyl+Allene	9.94956e-07	0.999998	0.00000	0.999998
rad30	6.20834e-07	0.999999	6.20834e-07	0.999999
rad39	5.92196e-07	0.999999	5.92196e-07	0.999999
rad12	4.97228e-07	1.000000	4.97228e-07	1.000000
PAH9+H	1.32270e-07	1.000000	1.32270e-07	1.000000
rad15	1.20643e-07	1.000000	1.20643e-07	1.000000
rad35	6.64927e-08	1.000000	6.64927e-08	1.000000
rad38	3.53865e-08	1.000000	3.53866e-08	1.000000
rad6	6.27623e-10	1.000000	6.27624e-10	1.000000
PhCH2CCH+H	4.69809e-10	1.000000	4.69809e-10	1.000000
rad46	3.11958e-10	1.000000	3.11958e-10	1.000000
rad37	1.40282e-10	1.000000	1.40282e-10	1.000000
rad60syn	1.62134e-11	1.000000	1.62134e-11	1.000000
rad28	9.54782e-12	1.000000	9.54783e-12	1.000000
rad60anti	3.51434e-12	1.000000	3.51435e-12	1.000000
rad26	1.06679e-12	1.000000	1.06679e-12	1.000000
rad5	4.33831e-13	1.000000	4.33831e-13	1.000000
rad2	2.29882e-13	1.000000	2.29883e-13	1.000000
rad7	4.57975e-14	1.000000	4.57976e-14	1.000000
rad1	1.48985e-14	1.000000	1.48985e-14	1.000000
rad10	1.18810e-14	1.000000	1.18811e-14	1.000000
rad11	1.12150e-14	1.000000	1.12150e-14	1.000000
rad3	1.54905e-15	1.000000	1.54905e-15	1.000000
rad4	7.88252e-16	1.000000	7.88253e-16	1.000000
rad13	2.56369e-16	1.000000	2.56369e-16	1.000000
PAH3+H	1.44932e-16	1.000000	1.44932e-16	1.000000
rad14	9.06762e-17	1.000000	9.06763e-17	1.000000
rad59	6.43007e-17	1.000000	6.43007e-17	1.000000
rad25	4.59156e-17	1.000000	4.59156e-17	1.000000
rad50	7.56332e-18	1.000000	7.56333e-18	1.000000
rad27	5.88688e-18	1.000000	5.88689e-18	1.000000
rad33	4.89654e-19	1.000000	4.89654e-19	1.000000
rad19syn	2.03476e-20	1.000000	2.03477e-20	1.000000
rad31	1.72871e-22	1.000000	1.72871e-22	1.000000
rad54	1.78867e-23	1.000000	1.78867e-23	1.000000
PAH10+CH3	1.18110e-23	1.000000	1.18110e-23	1.000000
rad20	6.32070e-24	1.000000	6.32071e-24	1.000000
rad21	4.92459e-24	1.000000	4.92459e-24	1.000000
rad43	2.84068e-24	1.000000	2.84068e-24	1.000000
rad52	1.13260e-24	1.000000	1.13260e-24	1.000000
rad62	1.01744e-25	1.000000	1.01744e-25	1.000000
rad18	1.86902e-26	1.000000	1.86902e-26	1.000000
rad23	1.55025e-26	1.000000	1.55025e-26	1.000000
rad22	1.85688e-27	1.000000	1.85688e-27	1.000000
rad51	1.05156e-28	1.000000	1.05156e-28	1.000000
rad45	1.01235e-28	1.000000	1.01235e-28	1.000000
rad70	3.03478e-29	1.000000	3.03479e-29	1.000000
PhcycC3H3_A+H	1.82703e-29	1.000000	1.82703e-29	1.000000
rad55	1.01624e-29	1.000000	1.01624e-29	1.000000
rad36	6.27331e-30	1.000000	6.27331e-30	1.000000
rad24	2.22537e-30	1.000000	2.22537e-30	1.000000
rad65	3.61494e-32	1.000000	3.61495e-32	1.000000
rad58	8.74393e-33	1.000000	8.74393e-33	1.000000
PAH1+H	5.48728e-39	1.000000	5.48728e-39	1.000000
rad34	4.15185e-41	1.000000	4.15186e-41	1.000000
rad42	5.03739e-45	1.000000	5.03739e-45	1.000000
rad41	8.80876e-46	1.000000	8.80877e-46	1.000000
rad47	7.77709e-51	1.000000	7.77709e-51	1.000000

0.100000000E-05 Pa, 130.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.33719e-19	(1.00)	1.33719e-19	(1.00)
Formation of rad11	1.26517e-19	(0.946)	1.26517e-19	(0.946)
Formation of rad6	7.08974e-21	(0.0530)	7.08973e-21	(0.0530)
H-abstraction	1.11864e-22	(0.000837)	1.11864e-22	(0.000837)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.980908	0.980908	0.980909	0.980909

C2H2+PhCH2	0.0109083	0.991816	0.0109083	0.991817
PhCCH+CH3	0.00372910	0.995545	0.00372910	0.995546
PhCHCCH2+H	0.00217578	0.997721	0.00217578	0.997722
PhCCCH3+H	0.00136372	0.999085	0.00136372	0.999086
Benzene+2-propynyl	0.000836559	0.999921	0.000836560	0.999922
Ph+MeAc	4.92550e-05	0.999970	4.92550e-05	0.999971
rad8	1.32450e-05	0.999984	1.32451e-05	0.999985
rad9	7.78972e-06	0.999991	7.78973e-06	0.999992
PAH7+H	4.80433e-06	0.999996	4.80434e-06	0.999997
Phenyl+Allene	1.38780e-06	0.999998	0.00000	0.999997
rad39	7.04366e-07	0.999998	7.04367e-07	0.999998
rad30	6.56120e-07	0.999999	6.56121e-07	0.999999
rad12	5.61086e-07	1.000000	5.61087e-07	0.999999
PAH9+H	1.41125e-07	1.000000	1.41125e-07	0.999999
rad15	1.29175e-07	1.000000	1.29175e-07	0.999999
rad35	7.03986e-08	1.000000	7.03987e-08	1.000000
rad38	3.80037e-08	1.000000	3.80038e-08	1.000000
PhCH2CCH+H	1.19664e-09	1.000000	1.19664e-09	1.000000
rad6	4.61137e-10	1.000000	4.61137e-10	1.000000
rad37	3.52389e-10	1.000000	3.52389e-10	1.000000
rad46	3.52201e-10	1.000000	3.52202e-10	1.000000
rad60syn	2.06692e-11	1.000000	2.06692e-11	1.000000
rad28	7.39084e-12	1.000000	7.39085e-12	1.000000
rad60anti	4.89584e-12	1.000000	4.89585e-12	1.000000
rad5	1.36576e-12	1.000000	1.36577e-12	1.000000
rad26	8.41362e-13	1.000000	8.41363e-13	1.000000
rad2	1.71787e-13	1.000000	1.71787e-13	1.000000
rad7	3.37078e-14	1.000000	3.37079e-14	1.000000
rad1	1.11818e-14	1.000000	1.11819e-14	1.000000
rad10	8.90109e-15	1.000000	8.90110e-15	1.000000
rad11	8.25752e-15	1.000000	8.25753e-15	1.000000
rad3	1.16923e-15	1.000000	1.16923e-15	1.000000
PAH3+H	5.97602e-16	1.000000	5.97603e-16	1.000000
rad4	5.95670e-16	1.000000	5.95671e-16	1.000000
rad59	2.54042e-16	1.000000	2.54042e-16	1.000000
rad13	1.88897e-16	1.000000	1.88898e-16	1.000000
rad14	7.59785e-17	1.000000	7.59786e-17	1.000000
rad25	3.87326e-17	1.000000	3.87327e-17	1.000000
rad50	2.77937e-17	1.000000	2.77938e-17	1.000000
rad27	4.97123e-18	1.000000	4.97124e-18	1.000000
rad33	3.61508e-19	1.000000	3.61508e-19	1.000000
rad19syn	3.10950e-19	1.000000	3.10951e-19	1.000000
rad54	4.59067e-22	1.000000	4.59068e-22	1.000000
PAH10+CH3	3.05742e-22	1.000000	3.05743e-22	1.000000
rad31	1.86161e-22	1.000000	1.86162e-22	1.000000
rad43	7.38547e-23	1.000000	7.38548e-23	1.000000
rad52	1.58219e-23	1.000000	1.58219e-23	1.000000
rad20	5.66558e-24	1.000000	5.66559e-24	1.000000
rad21	4.44054e-24	1.000000	4.44055e-24	1.000000
rad62	3.62268e-24	1.000000	3.62268e-24	1.000000
rad18	1.61042e-26	1.000000	1.61042e-26	1.000000
rad23	1.48588e-26	1.000000	1.48588e-26	1.000000
rad51	3.73371e-27	1.000000	3.73371e-27	1.000000
rad70	2.72512e-27	1.000000	2.72512e-27	1.000000
PhcycC3H3_A+H	2.14621e-27	1.000000	2.14621e-27	1.000000
rad22	1.53336e-27	1.000000	1.53336e-27	1.000000
rad55	9.74053e-28	1.000000	9.74054e-28	1.000000
rad45	9.91282e-29	1.000000	9.91284e-29	1.000000
rad36	6.14365e-30	1.000000	6.14366e-30	1.000000
rad65	2.45305e-30	1.000000	2.45305e-30	1.000000
rad24	2.29806e-30	1.000000	2.29806e-30	1.000000
rad58	1.13110e-30	1.000000	1.13111e-30	1.000000
PAH1+H	4.51061e-36	1.000000	4.51061e-36	1.000000
rad34	3.47430e-38	1.000000	3.47430e-38	1.000000
rad42	4.19210e-42	1.000000	4.19211e-42	1.000000
rad41	6.41190e-43	1.000000	6.41191e-43	1.000000
rad47	3.58533e-43	1.000000	3.58533e-43	1.000000

0.100000000E-05 Pa, 140.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.59582e-19	(1.00)	3.59581e-19	(1.00)
Formation of rad11	3.35703e-19	(0.934)	3.35702e-19	(0.934)
Formation of rad6	2.33415e-20	(0.0649)	2.33414e-20	(0.0649)
H-abstraction	5.37685e-22	(0.00150)	5.37685e-22	(0.00150)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.979279	0.979279	0.979280	0.979280

C2H2+PhCH2	0.0113539	0.990633	0.0113539	0.990634
PhCCH+CH3	0.00400801	0.994641	0.00400802	0.994642
PhCHCCH2+H	0.00231347	0.996955	0.00231347	0.996956
Benzene+2-propynyl	0.00149531	0.998450	0.00149531	0.998451
PhCCCH3+H	0.00145764	0.999908	0.00145765	0.999909
Ph+MeAc	5.94370e-05	0.999967	5.94371e-05	0.999968
rad8	1.44607e-05	0.999982	1.44607e-05	0.999983
rad9	8.80476e-06	0.999991	8.80477e-06	0.999992
PAH7+H	5.48360e-06	0.999996	5.48361e-06	0.999997
Phenyl+Allene	1.91177e-06	0.999998	0.00000	0.999997
rad39	8.39397e-07	0.999999	8.39399e-07	0.999998
rad30	6.95261e-07	0.999999	6.95263e-07	0.999999
rad12	6.34436e-07	1.00000	6.34437e-07	0.999999
PAH9+H	1.51104e-07	1.00000	1.51104e-07	0.999999
rad15	1.38764e-07	1.00000	1.38764e-07	0.999999
rad35	7.47610e-08	1.00000	7.47612e-08	1.000000
rad38	4.09731e-08	1.00000	4.09732e-08	1.000000
PhCH2CCH+H	2.73808e-09	1.00000	2.73808e-09	1.000000
rad37	7.72072e-10	1.00000	7.72073e-10	1.000000
rad46	4.00099e-10	1.00000	4.00100e-10	1.000000
rad6	3.43963e-10	1.00000	3.43964e-10	1.000000
rad60syn	2.63925e-11	1.00000	2.63925e-11	1.000000
rad60anti	6.71358e-12	1.00000	6.71359e-12	1.000000
rad28	5.77866e-12	1.00000	5.77867e-12	1.000000
rad5	3.71089e-12	1.00000	3.71090e-12	1.000000
rad26	6.69615e-13	1.00000	6.69616e-13	1.000000
rad2	1.31537e-13	1.00000	1.31537e-13	1.000000
rad7	2.51884e-14	1.00000	2.51884e-14	1.000000
rad1	8.60245e-15	1.00000	8.60247e-15	1.000000
rad10	6.81147e-15	1.00000	6.81148e-15	1.000000
rad11	6.17289e-15	1.00000	6.17290e-15	1.000000
PAH3+H	2.04380e-15	1.00000	2.04380e-15	1.000000
rad3	8.98046e-16	1.00000	8.98048e-16	1.000000
rad59	8.33603e-16	1.00000	8.33605e-16	1.000000
rad4	4.58102e-16	1.00000	4.58103e-16	1.000000
rad13	1.41315e-16	1.00000	1.41316e-16	1.000000
rad50	8.70044e-17	1.00000	8.70046e-17	1.000000
rad14	6.39758e-17	1.00000	6.39759e-17	1.000000
rad25	3.28423e-17	1.00000	3.28424e-17	1.000000
rad27	4.22628e-18	1.00000	4.22629e-18	1.000000
rad19syn	3.22739e-18	1.00000	3.22739e-18	1.000000
rad33	2.71045e-19	1.00000	2.71046e-19	1.000000
rad54	7.40432e-21	1.00000	7.40434e-21	1.000000
PAH10+CH3	4.96805e-21	1.00000	4.96806e-21	1.000000
rad43	1.20453e-21	1.00000	1.20453e-21	1.000000
rad31	2.05374e-22	1.00000	2.05375e-22	1.000000
rad52	1.52546e-22	1.00000	1.52547e-22	1.000000
rad62	7.69035e-23	1.00000	7.69037e-23	1.000000
rad20	5.16503e-24	1.00000	5.16504e-24	1.000000
rad21	4.07276e-24	1.00000	4.07277e-24	1.000000
rad70	1.16344e-25	1.00000	1.16345e-25	1.000000
PhcycC3H3_A+H	1.06484e-25	1.00000	1.06484e-25	1.000000
rad51	7.94718e-26	1.00000	7.94720e-26	1.000000
rad55	4.37362e-26	1.00000	4.37363e-26	1.000000
rad23	1.53956e-26	1.00000	1.53957e-26	1.000000
rad18	1.40936e-26	1.00000	1.40936e-26	1.000000
rad22	1.28763e-27	1.00000	1.28763e-27	1.000000
PAH1+H	1.72869e-28	1.00000	1.72869e-28	1.000000
rad45	1.05164e-28	1.00000	1.05164e-28	1.000000
rad65	8.26209e-29	1.00000	8.26210e-29	1.000000
rad58	6.05540e-29	1.00000	6.05541e-29	1.000000
rad36	6.52005e-30	1.00000	6.52007e-30	1.000000
rad34	4.12810e-30	1.00000	4.12810e-30	1.000000
rad24	2.40715e-30	1.00000	2.40716e-30	1.000000
rad42	1.07647e-38	1.00000	1.07647e-38	1.000000
rad41	1.50182e-39	1.00000	1.50183e-39	1.000000
rad47	2.48364e-41	1.00000	2.48364e-41	1.000000

0.100000000E-05 Pa, 150.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	8.51464e-19	(1.00)	8.51462e-19	(1.00)
Formation of rad11	7.83711e-19	(0.920)	7.83709e-19	(0.920)
Formation of rad6	6.56651e-20	(0.0771)	6.56649e-20	(0.0771)
H-abstraction	2.08816e-21	(0.00245)	2.08816e-21	(0.00245)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.977262	0.977262	0.977264	0.977264

C2H2+PhCH2	0.0118365	0.989099	0.0118365	0.989101
PhCCH+CH3	0.00431559	0.993415	0.00431560	0.993417
PhCHCCH2+H	0.00246377	0.995878	0.00246377	0.995880
Benzene+2-propynyl	0.00245244	0.998331	0.00245245	0.998333
PhCCCH3+H	0.00156022	0.999891	0.00156023	0.999893
Ph+MeAc	7.16592e-05	0.999963	7.16594e-05	0.999965
rad8	1.58148e-05	0.999978	1.58149e-05	0.999980
rad9	9.97777e-06	0.999988	9.97777e-06	0.999990
PAH7+H	6.27727e-06	0.999995	6.27728e-06	0.999997
Phenyl+Allene	2.60427e-06	0.999997	0.00000	0.999997
rad39	1.00127e-06	0.999998	1.00127e-06	0.999998
rad30	7.38536e-07	0.999999	7.38538e-07	0.999998
rad12	7.18232e-07	1.00000	7.18234e-07	0.999999
PAH9+H	1.62326e-07	1.00000	1.62327e-07	0.999999
rad15	1.49510e-07	1.00000	1.49510e-07	0.999999
rad35	7.96208e-08	1.00000	7.96210e-08	1.00000
rad38	4.43358e-08	1.00000	4.43359e-08	1.00000
PhCH2CCH+H	5.75171e-09	1.00000	5.75172e-09	1.00000
rad37	1.51855e-09	1.00000	1.51855e-09	1.00000
rad46	4.57077e-10	1.00000	4.57078e-10	1.00000
rad6	2.59773e-10	1.00000	2.59774e-10	1.00000
rad60syn	3.37086e-11	1.00000	3.37086e-11	1.00000
rad60anti	9.09479e-12	1.00000	9.09482e-12	1.00000
rad5	8.96505e-12	1.00000	8.96507e-12	1.00000
rad28	4.55467e-12	1.00000	4.55469e-12	1.00000
rad26	5.36807e-13	1.00000	5.36808e-13	1.00000
rad2	1.01627e-13	1.00000	1.01627e-13	1.00000
rad7	1.90588e-14	1.00000	1.90589e-14	1.00000
rad1	6.68059e-15	1.00000	6.68061e-15	1.00000
PAH3+H	6.03101e-15	1.00000	6.03103e-15	1.00000
rad10	5.29335e-15	1.00000	5.29337e-15	1.00000
rad11	4.67267e-15	1.00000	4.67268e-15	1.00000
rad59	2.36415e-15	1.00000	2.36416e-15	1.00000
rad3	7.04891e-16	1.00000	7.04893e-16	1.00000
rad4	3.60076e-16	1.00000	3.60077e-16	1.00000
rad50	2.40138e-16	1.00000	2.40139e-16	1.00000
rad13	1.07056e-16	1.00000	1.07056e-16	1.00000
rad14	5.40810e-17	1.00000	5.40812e-17	1.00000
rad25	2.79645e-17	1.00000	2.79645e-17	1.00000
rad19syn	2.46146e-17	1.00000	2.46146e-17	1.00000
rad27	3.61268e-18	1.00000	3.61269e-18	1.00000
rad33	2.05837e-19	1.00000	2.05837e-19	1.00000
rad54	8.25292e-20	1.00000	8.25294e-20	1.00000
PAH10+CH3	5.57273e-20	1.00000	5.57274e-20	1.00000
rad43	1.35490e-20	1.00000	1.35490e-20	1.00000
rad52	1.09590e-21	1.00000	1.09590e-21	1.00000
rad62	1.08551e-21	1.00000	1.08551e-21	1.00000
rad31	2.31782e-22	1.00000	2.31783e-22	1.00000
rad20	4.77668e-24	1.00000	4.77669e-24	1.00000
rad21	3.78981e-24	1.00000	3.78982e-24	1.00000
rad70	2.82756e-24	1.00000	2.82757e-24	1.00000
PhcycC3H3_A+H	2.82695e-24	1.00000	2.82696e-24	1.00000
rad51	1.13152e-24	1.00000	1.13153e-24	1.00000
rad55	1.09836e-24	1.00000	1.09836e-24	1.00000
rad23	1.72611e-26	1.00000	1.72611e-26	1.00000
rad18	1.24936e-26	1.00000	1.24936e-26	1.00000
PAH1+H	8.47527e-27	1.00000	8.47529e-27	1.00000
rad65	1.71244e-27	1.00000	1.71245e-27	1.00000
rad58	1.68999e-27	1.00000	1.68999e-27	1.00000
rad22	1.09623e-27	1.00000	1.09623e-27	1.00000
rad34	2.52726e-28	1.00000	2.52727e-28	1.00000
rad45	1.21361e-28	1.00000	1.21361e-28	1.00000
rad36	7.52880e-30	1.00000	7.52882e-30	1.00000
rad24	2.55457e-30	1.00000	2.55457e-30	1.00000
rad42	7.85451e-31	1.00000	7.85453e-31	1.00000
rad41	1.60818e-31	1.00000	1.60819e-31	1.00000
rad47	7.59464e-40	1.00000	7.59466e-40	1.00000

0.100000000E-05 Pa, 160.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.81800e-18	(1.00)	1.81799e-18	(1.00)
Formation of rad11	1.64862e-18	(0.907)	1.64862e-18	(0.907)
Formation of rad6	1.62558e-19	(0.0894)	1.62558e-19	(0.0894)
H-abstraction	6.82130e-21	(0.00375)	6.82130e-21	(0.00375)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.974810	0.974810	0.974813	0.974813

C2H2+PhCH2	0.0123575	0.987167	0.0123576	0.987170
PhCCH+CH3	0.00465327	0.991820	0.00465328	0.991823
Benzene+2-propynyl	0.00375209	0.995572	0.00375210	0.995576
PhCHCCH2+H	0.00262708	0.998200	0.00262709	0.998203
PhCCCH3+H	0.00167170	0.999871	0.00167170	0.999874
Ph+MeAc	8.62423e-05	0.999957	8.62426e-05	0.999961
rad8	1.73161e-05	0.999975	1.73161e-05	0.999978
rad9	1.13292e-05	0.999986	1.13292e-05	0.999989
PAH7+H	7.20225e-06	0.999993	7.20228e-06	0.999996
Phenyl+Allene	3.51225e-06	0.999997	0.00000	0.999996
rad39	1.19461e-06	0.999998	1.19461e-06	0.999998
rad12	8.13492e-07	0.999999	8.13495e-07	0.999998
rad30	7.86265e-07	1.000000	7.86267e-07	0.999999
PAH9+H	1.74930e-07	1.000000	1.74931e-07	0.999999
rad15	1.61530e-07	1.000000	1.61531e-07	1.000000
rad35	8.50246e-08	1.000000	8.50249e-08	1.000000
rad38	4.81395e-08	1.000000	4.81397e-08	1.000000
PhCH2CCH+H	1.12730e-08	1.000000	1.12730e-08	1.000000
rad37	2.73969e-09	1.000000	2.73970e-09	1.000000
rad46	5.24871e-10	1.000000	5.24873e-10	1.000000
rad6	1.98240e-10	1.000000	1.98240e-10	1.000000
rad60syn	4.30244e-11	1.000000	4.30245e-11	1.000000
rad5	1.96886e-11	1.000000	1.96886e-11	1.000000
rad60anti	1.22013e-11	1.000000	1.22013e-11	1.000000
rad28	3.61358e-12	1.000000	3.61359e-12	1.000000
rad26	4.32874e-13	1.000000	4.32875e-13	1.000000
rad2	8.10011e-14	1.000000	8.10014e-14	1.000000
PAH3+H	1.58152e-14	1.000000	1.58153e-14	1.000000
rad7	1.45725e-14	1.000000	1.45725e-14	1.000000
rad59	5.96926e-15	1.000000	5.96928e-15	1.000000
rad1	5.35453e-15	1.000000	5.35455e-15	1.000000
rad10	4.20750e-15	1.000000	4.20752e-15	1.000000
rad11	3.57430e-15	1.000000	3.57431e-15	1.000000
rad50	5.99481e-16	1.000000	5.99483e-16	1.000000
rad3	5.67987e-16	1.000000	5.67989e-16	1.000000
rad4	2.90587e-16	1.000000	2.90588e-16	1.000000
rad19syn	1.46312e-16	1.000000	1.46312e-16	1.000000
rad13	8.19585e-17	1.000000	8.19588e-17	1.000000
rad14	4.58630e-17	1.000000	4.58632e-17	1.000000
rad25	2.38932e-17	1.000000	2.38932e-17	1.000000
rad27	3.10224e-18	1.000000	3.10225e-18	1.000000
rad54	6.82318e-19	1.000000	6.82321e-19	1.000000
PAH10+CH3	4.63166e-19	1.000000	4.63168e-19	1.000000
rad33	1.58011e-19	1.000000	1.58011e-19	1.000000
rad43	1.12797e-19	1.000000	1.12798e-19	1.000000
rad62	1.10169e-20	1.000000	1.10170e-20	1.000000
rad52	6.21209e-21	1.000000	6.21212e-21	1.000000
rad31	2.67357e-22	1.000000	2.67358e-22	1.000000
PhcycC3H3_A+H	4.94896e-23	1.000000	4.94897e-23	1.000000
rad70	4.58078e-23	1.000000	4.58079e-23	1.000000
rad55	1.82890e-23	1.000000	1.82891e-23	1.000000
rad51	1.16592e-23	1.000000	1.16593e-23	1.000000
rad20	4.47269e-24	1.000000	4.47271e-24	1.000000
rad21	3.57109e-24	1.000000	3.57110e-24	1.000000
PAH1+H	2.26749e-25	1.000000	2.26750e-25	1.000000
rad58	3.08149e-26	1.000000	3.08150e-26	1.000000
rad65	2.43579e-26	1.000000	2.43580e-26	1.000000
rad23	2.09077e-26	1.000000	2.09078e-26	1.000000
rad18	1.11956e-26	1.000000	1.11956e-26	1.000000
rad34	7.87305e-27	1.000000	7.87308e-27	1.000000
rad22	9.43999e-28	1.000000	9.44003e-28	1.000000
rad45	1.51967e-28	1.000000	1.51967e-28	1.000000
rad42	4.07683e-29	1.000000	4.07684e-29	1.000000
rad41	9.77890e-30	1.000000	9.77893e-30	1.000000
rad36	9.43558e-30	1.000000	9.43561e-30	1.000000
rad24	2.74448e-30	1.000000	2.74449e-30	1.000000
rad47	1.41733e-38	1.000000	1.41734e-38	1.000000

0.100000000E-05 Pa, 170.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.56414e-18	(1.00)	3.56412e-18	(1.00)
Formation of rad11	3.18264e-18	(0.893)	3.18262e-18	(0.893)
Formation of rad6	3.62173e-19	(0.102)	3.62171e-19	(0.102)
H-abstraction	1.93278e-20	(0.00542)	1.93278e-20	(0.00542)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.971888	0.971888	0.971893	0.971893

C2H2+PhCH2	0.0129186	0.984806	0.0129186	0.984811
Benzene+2-propynyl	0.00542285	0.990229	0.00542288	0.990234
PhCCH+CH3	0.00502254	0.995252	0.00502255	0.995257
PhCHCCH2+H	0.00280378	0.998056	0.00280379	0.998061
PhCCCH3+H	0.00179227	0.999848	0.00179228	0.999853
Ph+MeAc	0.000103543	0.999951	0.000103543	0.999956
rad8	1.89730e-05	0.999970	1.89731e-05	0.999975
rad9	1.28820e-05	0.999983	1.28821e-05	0.999988
PAH7+H	8.27805e-06	0.999992	8.27809e-06	0.999997
Phenyl+Allene	4.69423e-06	0.999996	0.00000	0.999997
rad39	1.42480e-06	0.999998	1.42480e-06	0.999998
rad12	9.21288e-07	0.999999	9.21292e-07	0.999999
rad30	8.38808e-07	0.999999	8.38812e-07	1.000000
PAH9+H	1.89077e-07	1.000000	1.89078e-07	1.000000
rad15	1.74953e-07	1.000000	1.74954e-07	1.000000
rad35	9.10273e-08	1.000000	9.10278e-08	1.000000
rad38	5.24402e-08	1.000000	5.24405e-08	1.000000
PhCH2CCH+H	2.08691e-08	1.000000	2.08692e-08	1.000000
rad37	4.60919e-09	1.000000	4.60921e-09	1.000000
rad46	6.05586e-10	1.000000	6.05589e-10	1.000000
rad6	1.52616e-10	1.000000	1.52617e-10	1.000000
rad60syn	5.48474e-11	1.000000	5.48477e-11	1.000000
rad5	3.99730e-11	1.000000	3.99731e-11	1.000000
rad60anti	1.62383e-11	1.000000	1.62384e-11	1.000000
rad28	2.88244e-12	1.000000	2.88245e-12	1.000000
rad26	3.50742e-13	1.000000	3.50744e-13	1.000000
rad2	6.47217e-14	1.000000	6.47220e-14	1.000000
PAH3+H	3.76892e-14	1.000000	3.76894e-14	1.000000
rad59	1.37223e-14	1.000000	1.37224e-14	1.000000
rad7	1.12412e-14	1.000000	1.12412e-14	1.000000
rad1	4.30443e-15	1.000000	4.30445e-15	1.000000
rad10	3.38839e-15	1.000000	3.38840e-15	1.000000
rad11	2.75846e-15	1.000000	2.75847e-15	1.000000
rad50	1.37979e-15	1.000000	1.37980e-15	1.000000
rad19syn	7.08941e-16	1.000000	7.08945e-16	1.000000
rad3	4.64349e-16	1.000000	4.64352e-16	1.000000
rad4	2.37964e-16	1.000000	2.37965e-16	1.000000
rad13	6.33063e-17	1.000000	6.33066e-17	1.000000
rad14	3.89966e-17	1.000000	3.89968e-17	1.000000
rad25	2.04739e-17	1.000000	2.04739e-17	1.000000
rad54	4.41603e-18	1.000000	4.41605e-18	1.000000
PAH10+CH3	3.00999e-18	1.000000	3.01001e-18	1.000000
rad27	2.67420e-18	1.000000	2.67422e-18	1.000000
rad43	7.33353e-19	1.000000	7.33357e-19	1.000000
rad33	1.22421e-19	1.000000	1.22421e-19	1.000000
rad62	8.52795e-20	1.000000	8.52799e-20	1.000000
rad52	2.90262e-20	1.000000	2.90263e-20	1.000000
PhcycC3H3_A+H	6.18574e-22	1.000000	6.18577e-22	1.000000
rad70	5.33445e-22	1.000000	5.33447e-22	1.000000
rad31	3.14991e-22	1.000000	3.14992e-22	1.000000
rad55	2.18164e-22	1.000000	2.18165e-22	1.000000
rad51	9.22224e-23	1.000000	9.22228e-23	1.000000
rad20	4.23427e-24	1.000000	4.23429e-24	1.000000
PAH1+H	3.94435e-24	1.000000	3.94437e-24	1.000000
rad21	3.40272e-24	1.000000	3.40274e-24	1.000000
rad58	3.99313e-25	1.000000	3.99314e-25	1.000000
rad65	2.54727e-25	1.000000	2.54728e-25	1.000000
rad34	1.50323e-25	1.000000	1.50323e-25	1.000000
rad23	2.72570e-26	1.000000	2.72571e-26	1.000000
rad18	1.01257e-26	1.000000	1.01257e-26	1.000000
rad42	1.01747e-27	1.000000	1.01748e-27	1.000000
rad22	8.20793e-28	1.000000	8.20797e-28	1.000000
rad41	2.58572e-28	1.000000	2.58573e-28	1.000000
rad45	2.05381e-28	1.000000	2.05382e-28	1.000000
rad36	1.27666e-29	1.000000	1.27667e-29	1.000000
rad24	2.98339e-30	1.000000	2.98341e-30	1.000000
rad47	1.82774e-37	1.000000	1.82775e-37	1.000000

0.100000000E-05 Pa, 180.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	6.50681e-18	(1.00)	6.50677e-18	(1.00)
Formation of rad11	5.71915e-18	(0.879)	5.71911e-18	(0.879)
Formation of rad6	7.39013e-19	(0.114)	7.39008e-19	(0.114)
H-abstraction	4.86496e-20	(0.00748)	4.86496e-20	(0.00748)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.968480	0.968480	0.968487	0.968487

C2H2+PhCH2	0.0135216	0.982002	0.0135217	0.982009
Benzene+2-propynyl	0.00747672	0.989479	0.00747676	0.989486
PhCCH+CH3	0.00542493	0.994904	0.00542497	0.994911
PhCHCCH2+H	0.00299432	0.997898	0.00299434	0.997905
PhCCCH3+H	0.00192212	0.999820	0.00192213	0.999827
Ph+MeAc	0.000123955	0.999944	0.000123955	0.999951
rad8	2.07944e-05	0.999965	2.07945e-05	0.999972
rad9	1.46620e-05	0.999980	1.46620e-05	0.999987
PAH7+H	9.52700e-06	0.999989	9.52706e-06	0.999996
Phenyl+Allene	6.22266e-06	0.999995	0.00000	0.999996
rad39	1.69806e-06	0.999997	1.69807e-06	0.999998
rad12	1.04274e-06	0.999998	1.04274e-06	0.999999
rad30	8.96587e-07	0.999999	8.96592e-07	1.000000
PAH9+H	2.04955e-07	0.999999	2.04956e-07	1.000000
rad15	1.89931e-07	0.999999	1.89932e-07	1.000000
rad35	9.76925e-08	0.999999	9.76931e-08	1.000000
rad38	5.73030e-08	0.999999	5.73034e-08	1.000000
PhCH2CCH+H	3.68378e-08	1.000000	3.68381e-08	1.000000
rad37	7.32377e-09	1.000000	7.32382e-09	1.000000
rad46	7.01776e-10	1.000000	7.01781e-10	1.000000
rad6	1.18377e-10	1.000000	1.18377e-10	1.000000
rad5	7.60049e-11	1.000000	7.60053e-11	1.000000
rad60syn	6.98100e-11	1.000000	6.98105e-11	1.000000
rad60anti	2.14639e-11	1.000000	2.14641e-11	1.000000
rad28	2.30953e-12	1.000000	2.30955e-12	1.000000
rad26	2.85322e-13	1.000000	2.85324e-13	1.000000
PAH3+H	8.30416e-14	1.000000	8.30421e-14	1.000000
rad2	5.34436e-14	1.000000	5.34440e-14	1.000000
rad59	2.92185e-14	1.000000	2.92187e-14	1.000000
rad7	8.73727e-15	1.000000	8.73733e-15	1.000000
rad1	3.57788e-15	1.000000	3.57790e-15	1.000000
rad50	2.97112e-15	1.000000	2.97114e-15	1.000000
rad19syn	2.89946e-15	1.000000	2.89947e-15	1.000000
rad10	2.79039e-15	1.000000	2.79040e-15	1.000000
rad11	2.14506e-15	1.000000	2.14507e-15	1.000000
rad3	3.89847e-16	1.000000	3.89850e-16	1.000000
rad4	2.00150e-16	1.000000	2.00151e-16	1.000000
rad13	4.92738e-17	1.000000	4.92741e-17	1.000000
rad14	3.32320e-17	1.000000	3.32322e-17	1.000000
rad54	2.33295e-17	1.000000	2.33297e-17	1.000000
rad25	1.75873e-17	1.000000	1.75874e-17	1.000000
PAH10+CH3	1.59466e-17	1.000000	1.59467e-17	1.000000
rad43	3.88180e-18	1.000000	3.88182e-18	1.000000
rad27	2.31294e-18	1.000000	2.31296e-18	1.000000
rad62	5.27066e-19	1.000000	5.27069e-19	1.000000
rad52	1.15648e-19	1.000000	1.15649e-19	1.000000
rad33	9.56072e-20	1.000000	9.56078e-20	1.000000
PhcycC3H3_A+H	5.85619e-21	1.000000	5.85622e-21	1.000000
rad70	4.72800e-21	1.000000	4.72803e-21	1.000000
rad55	1.97618e-21	1.000000	1.97619e-21	1.000000
rad51	5.86135e-22	1.000000	5.86139e-22	1.000000
rad31	3.78883e-22	1.000000	3.78886e-22	1.000000
PAH1+H	4.95210e-23	1.000000	4.95213e-23	1.000000
rad20	4.04839e-24	1.000000	4.04841e-24	1.000000
rad58	3.90829e-24	1.000000	3.90832e-24	1.000000
rad21	3.27518e-24	1.000000	3.27520e-24	1.000000
rad65	2.06557e-24	1.000000	2.06558e-24	1.000000
rad34	2.04057e-24	1.000000	2.04059e-24	1.000000
rad23	3.80589e-26	1.000000	3.80592e-26	1.000000
rad42	1.68941e-26	1.000000	1.68942e-26	1.000000
rad18	9.23189e-27	1.000000	9.23194e-27	1.000000
rad41	4.43575e-27	1.000000	4.43577e-27	1.000000
rad22	7.19637e-28	1.000000	7.19642e-28	1.000000
rad45	2.98125e-28	1.000000	2.98127e-28	1.000000
rad36	1.85585e-29	1.000000	1.85586e-29	1.000000
rad24	3.28050e-30	1.000000	3.28053e-30	1.000000
rad47	1.73400e-36	1.000000	1.73401e-36	1.000000

0.100000000E-05 Pa, 190.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.11858e-17	(1.00)	1.11857e-17	(1.00)
Formation of rad11	9.67466e-18	(0.865)	9.67458e-18	(0.865)
Formation of rad6	1.40029e-18	(0.125)	1.40028e-18	(0.125)
H-abstraction	1.10851e-19	(0.00991)	1.10851e-19	(0.00991)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.964586	0.964586	0.964595	0.964595

C2H2+PhCH2	0.0141693	0.978756	0.0141694	0.978765
Benzene+2-propynyl	0.00990995	0.988666	0.00991003	0.988675
PhCCH+CH3	0.00586208	0.994528	0.00586212	0.994537
PhCHCCH2+H	0.00319912	0.997727	0.00319914	0.997736
PhCCCH3+H	0.00206143	0.999788	0.00206145	0.999797
Ph+MeAc	0.000147906	0.999936	0.000147907	0.999945
rad8	2.27889e-05	0.999959	2.27891e-05	0.999968
rad9	1.66980e-05	0.999976	1.66981e-05	0.999985
PAH7+H	1.09746e-05	0.999987	1.09747e-05	0.999996
Phenyl+Allene	8.18678e-06	0.999995	0.00000	0.999996
rad39	2.02155e-06	0.999997	2.02157e-06	0.999998
rad12	1.17900e-06	0.999998	1.17901e-06	0.999999
rad30	9.60067e-07	0.999999	9.60074e-07	1.000000
PAH9+H	2.22779e-07	0.999999	2.22781e-07	1.00000
rad15	2.06632e-07	0.999999	2.06634e-07	1.00000
rad35	1.05093e-07	0.999999	1.05094e-07	1.00000
rad38	6.28040e-08	0.999999	6.28045e-08	1.00000
PhCH2CCH+H	6.24612e-08	1.000000	6.24617e-08	1.00000
rad37	1.11015e-08	1.000000	1.11016e-08	1.00000
rad46	8.16530e-10	1.000000	8.16537e-10	1.00000
rad5	1.36726e-10	1.000000	1.36727e-10	1.00000
rad6	9.24167e-11	1.000000	9.24174e-11	1.00000
rad60syn	8.86953e-11	1.000000	8.86960e-11	1.00000
rad60anti	2.82028e-11	1.000000	2.82030e-11	1.00000
rad28	1.85741e-12	1.000000	1.85743e-12	1.00000
rad26	2.32871e-13	1.000000	2.32873e-13	1.00000
PAH3+H	1.71447e-13	1.000000	1.71448e-13	1.00000
rad59	5.83985e-14	1.000000	5.83989e-14	1.00000
rad2	4.49988e-14	1.000000	4.49992e-14	1.00000
rad19syn	1.02877e-14	1.000000	1.02878e-14	1.00000
rad7	6.83571e-15	1.000000	6.83577e-15	1.00000
rad50	6.05338e-15	1.000000	6.05343e-15	1.00000
rad1	3.03417e-15	1.000000	3.03420e-15	1.00000
rad10	2.34875e-15	1.000000	2.34877e-15	1.00000
rad11	1.67906e-15	1.000000	1.67908e-15	1.00000
rad3	3.34066e-16	1.000000	3.34068e-16	1.00000
rad4	1.71855e-16	1.000000	1.71857e-16	1.00000
rad54	1.03970e-16	1.000000	1.03970e-16	1.00000
PAH10+CH3	7.11671e-17	1.000000	7.11677e-17	1.00000
rad13	3.86064e-17	1.000000	3.86067e-17	1.00000
rad14	2.83735e-17	1.000000	2.83737e-17	1.00000
rad43	1.72856e-17	1.000000	1.72858e-17	1.00000
rad25	1.51405e-17	1.000000	1.51407e-17	1.00000
rad62	2.69621e-18	1.000000	2.69623e-18	1.00000
rad27	2.00639e-18	1.000000	2.00640e-18	1.00000
rad52	4.03510e-19	1.000000	4.03513e-19	1.00000
rad33	7.51939e-20	1.000000	7.51945e-20	1.00000
PhcycC3H3_A+H	4.38894e-20	1.000000	4.38898e-20	1.00000
rad70	3.33201e-20	1.000000	3.33204e-20	1.00000
rad55	1.42084e-20	1.000000	1.42085e-20	1.00000
rad51	3.10226e-21	1.000000	3.10229e-21	1.00000
PAH1+H	4.73308e-22	1.000000	4.73312e-22	1.00000
rad31	4.65107e-22	1.000000	4.65111e-22	1.00000
rad58	3.02074e-23	1.000000	3.02076e-23	1.00000
rad34	2.08650e-23	1.000000	2.08652e-23	1.00000
rad65	1.35334e-23	1.000000	1.35335e-23	1.00000
rad20	3.90596e-24	1.000000	3.90600e-24	1.00000
rad21	3.18191e-24	1.000000	3.18194e-24	1.00000
rad42	2.03931e-25	1.000000	2.03933e-25	1.00000
rad23	5.66523e-26	1.000000	5.66527e-26	1.00000
rad41	5.49125e-26	1.000000	5.49130e-26	1.00000
rad18	8.47689e-27	1.000000	8.47696e-27	1.00000
rad22	6.35631e-28	1.000000	6.35636e-28	1.00000
rad45	4.61401e-28	1.000000	4.61405e-28	1.00000
rad36	2.87739e-29	1.000000	2.87741e-29	1.00000
rad24	3.64828e-30	1.000000	3.64832e-30	1.00000
rad47	1.27121e-35	1.000000	1.27122e-35	1.00000

0.100000000E-05 Pa, 200.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.82690e-17	(1.00)	1.82688e-17	(1.00)
Formation of rad11	1.55456e-17	(0.851)	1.55454e-17	(0.851)
Formation of rad6	2.49126e-18	(0.136)	2.49124e-18	(0.136)
H-abstraction	2.32112e-19	(0.0127)	2.32112e-19	(0.0127)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.960217	0.960217	0.960228	0.960228

C2H2+PhCH2	0.0148639	0.975081	0.0148641	0.975092
Benzene+2-propynyl	0.0127053	0.987786	0.0127054	0.987797
PhCCH+CH3	0.00633555	0.994122	0.00633562	0.994133
PhCHCCH2+H	0.00341859	0.997541	0.00341863	0.997552
PhCCCH3+H	0.00221032	0.999751	0.00221035	0.999762
Ph+MeAc	0.000175856	0.999927	0.000175858	0.999938
rad8	2.49651e-05	0.999952	2.49654e-05	0.999963
rad9	1.90221e-05	0.999971	1.90223e-05	0.999982
PAH7+H	1.26498e-05	0.999983	1.26499e-05	0.999995
Phenyl+Allene	1.06956e-05	0.999994	0.00000	0.999995
rad39	2.40345e-06	0.999996	2.40348e-06	0.999997
rad12	1.33124e-06	0.999998	1.33125e-06	0.999998
rad30	1.02977e-06	0.999999	1.02979e-06	0.999999
PAH9+H	2.42799e-07	0.999999	2.42802e-07	1.000000
rad15	2.25246e-07	0.999999	2.25249e-07	1.000000
rad35	1.13313e-07	0.999999	1.13314e-07	1.000000
PhCH2CCH+H	1.02325e-07	0.999999	1.02326e-07	1.000000
rad38	6.90304e-08	1.000000	6.90311e-08	1.000000
rad37	1.61810e-08	1.000000	1.61812e-08	1.000000
rad46	9.53568e-10	1.000000	9.53578e-10	1.000000
rad5	2.34586e-10	1.000000	2.34589e-10	1.000000
rad60syn	1.12469e-10	1.000000	1.12470e-10	1.000000
rad6	7.25594e-11	1.000000	7.25601e-11	1.000000
rad60anti	3.68596e-11	1.000000	3.68600e-11	1.000000
rad28	1.49850e-12	1.000000	1.49851e-12	1.000000
PAH3+H	3.35184e-13	1.000000	3.35187e-13	1.000000
rad26	1.90591e-13	1.000000	1.90593e-13	1.000000
rad59	1.10710e-13	1.000000	1.10711e-13	1.000000
rad2	3.85118e-14	1.000000	3.85122e-14	1.000000
rad19syn	3.23696e-14	1.000000	3.23699e-14	1.000000
rad50	1.17723e-14	1.000000	1.17724e-14	1.000000
rad7	5.37874e-15	1.000000	5.37880e-15	1.000000
rad1	2.61702e-15	1.000000	2.61705e-15	1.000000
rad10	2.01718e-15	1.000000	2.01721e-15	1.000000
rad11	1.32189e-15	1.000000	1.32191e-15	1.000000
rad54	4.01273e-16	1.000000	4.01277e-16	1.000000
rad3	2.94165e-16	1.000000	2.94168e-16	1.000000
PAH10+CH3	2.74627e-16	1.000000	2.74630e-16	1.000000
rad4	1.51659e-16	1.000000	1.51661e-16	1.000000
rad43	6.64687e-17	1.000000	6.64694e-17	1.000000
rad13	3.04245e-17	1.000000	3.04248e-17	1.000000
rad14	2.42656e-17	1.000000	2.42659e-17	1.000000
rad25	1.30592e-17	1.000000	1.30594e-17	1.000000
rad62	1.17482e-17	1.000000	1.17483e-17	1.000000
rad27	1.74509e-18	1.000000	1.74511e-18	1.000000
rad52	1.25933e-18	1.000000	1.25934e-18	1.000000
PhcycC3H3_A+H	2.69647e-19	1.000000	2.69650e-19	1.000000
rad70	1.93309e-19	1.000000	1.93311e-19	1.000000
rad55	8.39746e-20	1.000000	8.39755e-20	1.000000
rad33	5.95122e-20	1.000000	5.95128e-20	1.000000
rad51	1.40661e-20	1.000000	1.40663e-20	1.000000
PAH1+H	3.58741e-21	1.000000	3.58745e-21	1.000000
rad31	5.82490e-22	1.000000	5.82496e-22	1.000000
rad58	1.90959e-22	1.000000	1.90961e-22	1.000000
rad34	1.67728e-22	1.000000	1.67730e-22	1.000000
rad65	7.40123e-23	1.000000	7.40130e-23	1.000000
rad20	3.80064e-24	1.000000	3.80068e-24	1.000000
rad21	3.11844e-24	1.000000	3.11848e-24	1.000000
rad42	1.88860e-24	1.000000	1.88862e-24	1.000000
rad41	5.19579e-25	1.000000	5.19585e-25	1.000000
rad23	8.95746e-26	1.000000	8.95756e-26	1.000000
rad18	7.83328e-27	1.000000	7.83336e-27	1.000000
rad45	7.61827e-28	1.000000	7.61835e-28	1.000000
rad22	5.65295e-28	1.000000	5.65301e-28	1.000000
rad36	4.76116e-29	1.000000	4.76121e-29	1.000000
rad24	4.10347e-30	1.000000	4.10352e-30	1.000000
rad47	7.49046e-35	1.000000	7.49054e-35	1.000000

0.100000000E-05 Pa, 210.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.85520e-17	(1.00)	2.85516e-17	(1.00)
Formation of rad11	2.39009e-17	(0.837)	2.39006e-17	(0.837)
Formation of rad6	4.19900e-18	(0.147)	4.19894e-18	(0.147)
H-abstraction	4.52111e-19	(0.0158)	4.52111e-19	(0.0158)
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.955395	0.955395	0.955409	0.955409

Benzene+2-propynyl	0.0158346	0.971230	0.0158348	0.971244
C2H2+PhCH2	0.0156088	0.986839	0.0156090	0.986853
PhCCH+CH3	0.00684690	0.993686	0.00684699	0.993700
PhCHCCH2+H	0.00365312	0.997339	0.00365317	0.997353
PhCCCH3+H	0.00236887	0.999708	0.00236891	0.999722
Ph+MeAc	0.000208296	0.999916	0.000208299	0.999930
rad8	2.73309e-05	0.999943	2.73312e-05	0.999957
rad9	2.16698e-05	0.999965	2.16701e-05	0.999979
PAH7+H	1.45853e-05	0.999979	1.45855e-05	0.999994
Phenyl+Allene	1.38813e-05	0.999993	0.00000	0.999994
rad39	2.85308e-06	0.999996	2.85311e-06	0.999996
rad12	1.50060e-06	0.999998	1.50062e-06	0.999998
rad30	1.10628e-06	0.999999	1.10630e-06	0.999999
PAH9+H	2.65300e-07	0.999999	2.65304e-07	0.999999
rad15	2.45985e-07	0.999999	2.45989e-07	1.000000
PhCH2CCH+H	1.62715e-07	0.999999	1.62717e-07	1.000000
rad35	1.22445e-07	1.000000	1.22447e-07	1.000000
rad38	7.60827e-08	1.000000	7.60837e-08	1.000000
rad37	2.28224e-08	1.000000	2.28228e-08	1.000000
rad46	1.11736e-09	1.000000	1.11737e-09	1.000000
rad5	3.86367e-10	1.000000	3.86372e-10	1.000000
rad60syn	1.42314e-10	1.000000	1.42316e-10	1.000000
rad6	5.72550e-11	1.000000	5.72559e-11	1.000000
rad60anti	4.79365e-11	1.000000	4.79372e-11	1.000000
rad28	1.21214e-12	1.000000	1.21216e-12	1.000000
PAH3+H	6.25698e-13	1.000000	6.25707e-13	1.000000
rad59	2.00718e-13	1.000000	2.00720e-13	1.000000
rad26	1.56357e-13	1.000000	1.56359e-13	1.000000
rad19syn	9.19281e-14	1.000000	9.19294e-14	1.000000
rad2	3.41164e-14	1.000000	3.41168e-14	1.000000
rad50	2.20045e-14	1.000000	2.20048e-14	1.000000
rad7	4.25389e-15	1.000000	4.25395e-15	1.000000
rad1	2.33796e-15	1.000000	2.33799e-15	1.000000
rad10	1.78529e-15	1.000000	1.78531e-15	1.000000
rad54	1.36990e-15	1.000000	1.36992e-15	1.000000
rad11	1.04603e-15	1.000000	1.04604e-15	1.000000
PAH10+CH3	9.35811e-16	1.000000	9.35825e-16	1.000000
rad3	2.67747e-16	1.000000	2.67751e-16	1.000000
rad43	2.25413e-16	1.000000	2.25417e-16	1.000000
rad4	1.38369e-16	1.000000	1.38371e-16	1.000000
rad62	4.46230e-17	1.000000	4.46236e-17	1.000000
rad13	2.41006e-17	1.000000	2.41009e-17	1.000000
rad14	2.07833e-17	1.000000	2.07836e-17	1.000000
rad25	1.12839e-17	1.000000	1.12841e-17	1.000000
rad52	3.57586e-18	1.000000	3.57591e-18	1.000000
rad27	1.52154e-18	1.000000	1.52156e-18	1.000000
PhcycC3H3_A+H	1.39649e-18	1.000000	1.39651e-18	1.000000
rad70	9.49278e-19	1.000000	9.49290e-19	1.000000
rad55	4.19551e-19	1.000000	4.19556e-19	1.000000
rad51	5.58853e-20	1.000000	5.58861e-20	1.000000
rad33	4.73716e-20	1.000000	4.73722e-20	1.000000
PAH1+H	2.22717e-20	1.000000	2.22720e-20	1.000000
rad34	1.09605e-21	1.000000	1.09606e-21	1.000000
rad58	1.01534e-21	1.000000	1.01535e-21	1.000000
rad31	7.43950e-22	1.000000	7.43961e-22	1.000000
rad65	3.46716e-22	1.000000	3.46720e-22	1.000000
rad42	1.39290e-23	1.000000	1.39292e-23	1.000000
rad41	3.90335e-24	1.000000	3.90341e-24	1.000000
rad20	3.72801e-24	1.000000	3.72807e-24	1.000000
rad21	3.08180e-24	1.000000	3.08184e-24	1.000000
rad23	1.50070e-25	1.000000	1.50072e-25	1.000000
rad18	7.28053e-27	1.000000	7.28064e-27	1.000000
rad45	1.35221e-27	1.000000	1.35222e-27	1.000000
rad22	5.06203e-28	1.000000	5.06210e-28	1.000000
rad36	8.47249e-29	1.000000	8.47261e-29	1.000000
rad24	4.66838e-30	1.000000	4.66845e-30	1.000000
rad47	3.66234e-34	1.000000	3.66238e-34	1.000000

0.100000000E-05 Pa, 220.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	4.29529e-17	(1.00)	4.29521e-17	(1.00)
Formation of rad11	3.53712e-17	(0.823)	3.53705e-17	(0.823)
Formation of rad6	6.75433e-18	(0.157)	6.75421e-18	(0.157)
H-abstraction	8.27372e-19	(0.0193)	8.27372e-19	(0.0193)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.950150	0.950150	0.950168	0.950168

Benzene+2-propynyl	0.0192623	0.969413	0.0192627	0.969430
C2H2+PhCH2	0.0164068	0.985820	0.0164070	0.985837
PhCCH+CH3	0.00739758	0.993217	0.00739771	0.993235
PhCHCCH2+H	0.00390306	0.997120	0.00390313	0.997138
PhCCCH3+H	0.00253708	0.999657	0.00253713	0.999675
Ph+MeAc	0.000245737	0.999903	0.000245741	0.999921
rad8	2.98928e-05	0.999933	2.98934e-05	0.999951
rad9	2.46798e-05	0.999958	2.46803e-05	0.999976
Phenyl+Allene	1.79035e-05	0.999975	0.00000	0.999976
PAH7+H	1.68178e-05	0.999992	1.68182e-05	0.999993
rad39	3.38093e-06	0.999996	3.38098e-06	0.999996
rad12	1.68821e-06	0.999997	1.68824e-06	0.999998
rad30	1.19022e-06	0.999999	1.19024e-06	0.999999
PAH9+H	2.90605e-07	0.999999	2.90610e-07	0.999999
rad15	2.69081e-07	0.999999	2.69086e-07	0.999999
PhCH2CCH+H	2.52099e-07	0.999999	2.52103e-07	1.000000
rad35	1.32596e-07	0.999999	1.32598e-07	1.000000
rad38	8.40756e-08	1.000000	8.40771e-08	1.000000
rad37	3.13084e-08	1.000000	3.13090e-08	1.000000
rad46	1.31325e-09	1.000000	1.31327e-09	1.000000
rad5	6.14074e-10	1.000000	6.14085e-10	1.000000
rad60syn	1.79672e-10	1.000000	1.79676e-10	1.000000
rad60anti	6.20532e-11	1.000000	6.20544e-11	1.000000
rad6	4.53828e-11	1.000000	4.53835e-11	1.000000
PAH3+H	1.12266e-12	1.000000	1.12268e-12	1.000000
rad28	9.82729e-13	1.000000	9.82748e-13	1.000000
rad59	3.50293e-13	1.000000	3.50300e-13	1.000000
rad19syn	2.39062e-13	1.000000	2.39066e-13	1.000000
rad26	1.28534e-13	1.000000	1.28536e-13	1.000000
rad50	3.97489e-14	1.000000	3.97496e-14	1.000000
rad2	3.10138e-14	1.000000	3.10143e-14	1.000000
rad54	4.20835e-15	1.000000	4.20842e-15	1.000000
rad7	3.37969e-15	1.000000	3.37975e-15	1.000000
PAH10+CH3	2.86443e-15	1.000000	2.86448e-15	1.000000
rad1	2.14485e-15	1.000000	2.14489e-15	1.000000
rad10	1.62511e-15	1.000000	1.62514e-15	1.000000
rad11	8.31557e-16	1.000000	8.31572e-16	1.000000
rad43	6.85851e-16	1.000000	6.85864e-16	1.000000
rad3	2.52027e-16	1.000000	2.52031e-16	1.000000
rad62	1.50549e-16	1.000000	1.50551e-16	1.000000
rad4	1.30583e-16	1.000000	1.30586e-16	1.000000
rad13	1.91803e-17	1.000000	1.91807e-17	1.000000
rad14	1.78250e-17	1.000000	1.78254e-17	1.000000
rad25	9.76605e-18	1.000000	9.76622e-18	1.000000
rad52	9.36557e-18	1.000000	9.36575e-18	1.000000
PhcycC3H3_A+H	6.23505e-18	1.000000	6.23517e-18	1.000000
rad70	4.03526e-18	1.000000	4.03534e-18	1.000000
rad55	1.81229e-18	1.000000	1.81231e-18	1.000000
rad27	1.32967e-18	1.000000	1.32970e-18	1.000000
rad51	1.98109e-19	1.000000	1.98113e-19	1.000000
PAH1+H	1.16259e-19	1.000000	1.16262e-19	1.000000
rad33	3.79091e-20	1.000000	3.79098e-20	1.000000
rad34	5.98215e-21	1.000000	5.98225e-21	1.000000
rad58	4.64426e-21	1.000000	4.64434e-21	1.000000
rad65	1.42039e-21	1.000000	1.42042e-21	1.000000
rad31	9.68536e-22	1.000000	9.68554e-22	1.000000
rad42	8.43153e-23	1.000000	8.43167e-23	1.000000
rad41	2.40058e-23	1.000000	2.40063e-23	1.000000
rad20	3.68516e-24	1.000000	3.68523e-24	1.000000
rad21	3.07021e-24	1.000000	3.07027e-24	1.000000
rad23	2.66008e-25	1.000000	2.66013e-25	1.000000
rad18	6.80306e-27	1.000000	6.80319e-27	1.000000
rad45	2.52692e-27	1.000000	2.52696e-27	1.000000
rad22	4.56805e-28	1.000000	4.56813e-28	1.000000
rad36	1.58803e-28	1.000000	1.58806e-28	1.000000
rad24	5.37285e-30	1.000000	5.37295e-30	1.000000
rad47	1.52506e-33	1.000000	1.52509e-33	1.000000

0.100000000E-05 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	6.25016e-17 (1.00)	6.25002e-17 (1.00)		
Formation of rad11	5.06355e-17 (0.810)	5.06343e-17 (0.810)		
Formation of rad6	1.04318e-17 (0.167)	1.04316e-17 (0.167)		
H-abstraction	1.43428e-18 (0.0229)	1.43428e-18 (0.0229)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.944518	0.944518	0.944540	0.944540

Benzene+2-propynyl	0.0229478	0.967466	0.0229483	0.967489
C2H2+PhCH2	0.0172613	0.984727	0.0172617	0.984750
PhCCH+CH3	0.00798891	0.992716	0.00798910	0.992739
PhCHCCH2+H	0.00416869	0.996885	0.00416879	0.996908
PhCCCH3+H	0.00271487	0.999600	0.00271493	0.999623
Ph+MeAc	0.000288706	0.999889	0.000288712	0.999912
rad8	3.26570e-05	0.999921	3.26577e-05	0.999944
rad9	2.80944e-05	0.999949	2.80950e-05	0.999973
Phenyl+Allene	2.29530e-05	0.999972	0.00000	0.999973
PAH7+H	1.93884e-05	0.999992	1.93888e-05	0.999992
rad39	3.99879e-06	0.999996	3.99889e-06	0.999996
rad12	1.89511e-06	0.999998	1.89515e-06	0.999998
rad30	1.28226e-06	0.999999	1.28229e-06	0.999999
PhCH2CCH+H	3.81715e-07	0.999999	3.81724e-07	1.000000
PAH9+H	3.19077e-07	1.000000	3.19084e-07	1.000000
rad15	2.94790e-07	1.000000	2.94797e-07	1.000000
rad35	1.43882e-07	1.000000	1.43886e-07	1.000000
rad38	9.31391e-08	1.000000	9.31413e-08	1.000000
rad37	4.19451e-08	1.000000	4.19461e-08	1.000000
rad46	1.54760e-09	1.000000	1.54764e-09	1.000000
rad5	9.45868e-10	1.000000	9.45890e-10	1.000000
rad60syn	2.26291e-10	1.000000	2.26296e-10	1.000000
rad60anti	7.99692e-11	1.000000	7.99710e-11	1.000000
rad6	3.61207e-11	1.000000	3.61216e-11	1.000000
PAH3+H	1.94643e-12	1.000000	1.94648e-12	1.000000
rad28	7.98286e-13	1.000000	7.98304e-13	1.000000
rad59	5.91548e-13	1.000000	5.91562e-13	1.000000
rad19syn	5.76045e-13	1.000000	5.76057e-13	1.000000
rad26	1.05851e-13	1.000000	1.05854e-13	1.000000
rad50	6.96948e-14	1.000000	6.96964e-14	1.000000
rad2	2.91895e-14	1.000000	2.91902e-14	1.000000
rad54	1.17979e-14	1.000000	1.17982e-14	1.000000
PAH10+CH3	7.98673e-15	1.000000	7.98691e-15	1.000000
rad7	2.69643e-15	1.000000	2.69650e-15	1.000000
rad1	2.03874e-15	1.000000	2.03878e-15	1.000000
rad43	1.89884e-15	1.000000	1.89889e-15	1.000000
rad10	1.52631e-15	1.000000	1.52635e-15	1.000000
rad11	6.63858e-16	1.000000	6.63873e-16	1.000000
rad62	4.58149e-16	1.000000	4.58159e-16	1.000000
rad3	2.44637e-16	1.000000	2.44643e-16	1.000000
rad4	1.27114e-16	1.000000	1.27116e-16	1.000000
PhcycC3H3_A+H	2.44416e-17	1.000000	2.44422e-17	1.000000
rad52	2.28788e-17	1.000000	2.28793e-17	1.000000
rad13	1.53299e-17	1.000000	1.53303e-17	1.000000
rad14	1.53073e-17	1.000000	1.53077e-17	1.000000
rad70	1.51220e-17	1.000000	1.51223e-17	1.000000
rad25	8.46558e-18	1.000000	8.46578e-18	1.000000
rad55	6.89279e-18	1.000000	6.89294e-18	1.000000
rad27	1.16457e-18	1.000000	1.16460e-18	1.000000
rad51	6.35769e-19	1.000000	6.35783e-19	1.000000
PAH1+H	5.21364e-19	1.000000	5.21376e-19	1.000000
rad33	3.04910e-20	1.000000	3.04917e-20	1.000000
rad34	2.78859e-20	1.000000	2.78865e-20	1.000000
rad58	1.86124e-20	1.000000	1.86127e-20	1.000000
rad65	5.17415e-21	1.000000	5.17427e-21	1.000000
rad31	1.28454e-21	1.000000	1.28457e-21	1.000000
rad42	4.29488e-22	1.000000	4.29498e-22	1.000000
rad41	1.23970e-22	1.000000	1.23973e-22	1.000000
rad20	3.67037e-24	1.000000	3.67045e-24	1.000000
rad21	3.08287e-24	1.000000	3.08294e-24	1.000000
rad23	4.98321e-25	1.000000	4.98332e-25	1.000000
rad18	6.38883e-27	1.000000	6.38898e-27	1.000000
rad45	5.06665e-27	1.000000	5.06677e-27	1.000000
rad22	4.16469e-28	1.000000	4.16479e-28	1.000000
rad36	3.19517e-28	1.000000	3.19523e-28	1.000000
rad24	6.25708e-30	1.000000	6.25722e-30	1.000000
rad47	5.52649e-33	1.000000	5.52661e-33	1.000000

0.100000000E-05 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	8.83273e-17 (1.00)	8.83247e-17 (1.00)		
Formation of rad11	7.04077e-17 (0.797)	7.04056e-17 (0.797)		
Formation of rad6	1.55481e-17 (0.176)	1.55476e-17 (0.176)		
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.938535	0.938535	0.938562	0.938562

Benzene+2-propynyl	0.0268483	0.965383	0.0268490	0.965411
C2H2+PhCH2	0.0181758	0.983559	0.0181764	0.983588
PhCCH+CH3	0.00862202	0.992181	0.00862227	0.992210
PhCHCCH2+H	0.00445020	0.996631	0.00445034	0.996660
PhCCCH3+H	0.00290206	0.999533	0.00290214	0.999562
Ph+MeAc	0.000337739	0.999871	0.000337750	0.999900
rad8	3.56275e-05	0.999907	3.56285e-05	0.999936
rad9	3.19594e-05	0.999938	3.19603e-05	0.999968
Phenyl+Allene	2.92572e-05	0.999968	0.00000	0.999968
PAH7+H	2.23425e-05	0.999990	2.23432e-05	0.999990
rad39	4.71984e-06	0.999995	4.71999e-06	0.999995
rad12	2.12226e-06	0.999997	2.12232e-06	0.999997
rad30	1.38314e-06	0.999998	1.38319e-06	0.999998
PhCH2CCH+H	5.66262e-07	0.999999	5.66279e-07	0.999999
PAH9+H	3.51123e-07	0.999999	3.51133e-07	0.999999
rad15	3.23387e-07	1.000000	3.23397e-07	1.000000
rad35	1.56434e-07	1.000000	1.56438e-07	1.000000
rad38	1.03421e-07	1.000000	1.03424e-07	1.000000
rad37	5.50636e-08	1.000000	5.50652e-08	1.000000
rad46	1.82801e-09	1.000000	1.82805e-09	1.000000
rad5	1.41700e-09	1.000000	1.41703e-09	1.000000
rad60syn	2.84271e-10	1.000000	2.84279e-10	1.000000
rad60anti	1.02609e-10	1.000000	1.02612e-10	1.000000
rad6	2.88602e-11	1.000000	2.88610e-11	1.000000
PAH3+H	3.27485e-12	1.000000	3.27494e-12	1.000000
rad19syn	1.29872e-12	1.000000	1.29876e-12	1.000000
rad59	9.70690e-13	1.000000	9.70718e-13	1.000000
rad28	6.49555e-13	1.000000	6.49574e-13	1.000000
rad50	1.19031e-13	1.000000	1.19034e-13	1.000000
rad26	8.73118e-14	1.000000	8.73143e-14	1.000000
rad54	3.05321e-14	1.000000	3.05330e-14	1.000000
rad2	2.84446e-14	1.000000	2.84455e-14	1.000000
PAH10+CH3	2.05204e-14	1.000000	2.05209e-14	1.000000
rad43	4.83972e-15	1.000000	4.83986e-15	1.000000
rad7	2.15978e-15	1.000000	2.15985e-15	1.000000
rad1	2.00805e-15	1.000000	2.00812e-15	1.000000
rad10	1.48922e-15	1.000000	1.48926e-15	1.000000
rad62	1.27362e-15	1.000000	1.27366e-15	1.000000
rad11	5.32085e-16	1.000000	5.32101e-16	1.000000
rad3	2.42848e-16	1.000000	2.42855e-16	1.000000
rad4	1.26571e-16	1.000000	1.26575e-16	1.000000
PhcycC3H3_A+H	8.53910e-17	1.000000	8.53935e-17	1.000000
rad52	5.25991e-17	1.000000	5.26007e-17	1.000000
rad70	5.07091e-17	1.000000	5.07106e-17	1.000000
rad55	2.34299e-17	1.000000	2.34307e-17	1.000000
rad14	1.31614e-17	1.000000	1.31618e-17	1.000000
rad13	1.23019e-17	1.000000	1.23023e-17	1.000000
rad25	7.34952e-18	1.000000	7.34974e-18	1.000000
PAH1+H	2.04480e-18	1.000000	2.04485e-18	1.000000
rad51	1.86868e-18	1.000000	1.86873e-18	1.000000
rad27	1.02216e-18	1.000000	1.02219e-18	1.000000
rad34	1.13110e-19	1.000000	1.13113e-19	1.000000
rad58	6.63438e-20	1.000000	6.63457e-20	1.000000
rad33	2.46465e-20	1.000000	2.46472e-20	1.000000
rad65	1.69869e-20	1.000000	1.69874e-20	1.000000
rad42	1.87991e-21	1.000000	1.87996e-21	1.000000
rad31	1.73428e-21	1.000000	1.73433e-21	1.000000
rad41	5.49128e-22	1.000000	5.49144e-22	1.000000
rad20	3.68288e-24	1.000000	3.68299e-24	1.000000
rad21	3.11981e-24	1.000000	3.11990e-24	1.000000
rad23	9.85326e-25	1.000000	9.85354e-25	1.000000
rad45	1.07752e-26	1.000000	1.07755e-26	1.000000
rad18	6.02845e-27	1.000000	6.02862e-27	1.000000
rad36	6.82213e-28	1.000000	6.82233e-28	1.000000
rad22	3.85843e-28	1.000000	3.85854e-28	1.000000
rad24	7.37548e-30	1.000000	7.37570e-30	1.000000
rad47	1.77440e-32	1.000000	1.77444e-32	1.000000

0.100000000E-05 Pa, 250.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.21641e-16	(1.00)	1.21637e-16	(1.00)
Formation of rad11	9.54219e-17	(0.784)	9.54182e-17	(0.784)
Formation of rad6	2.24583e-17	(0.185)	2.24574e-17	(0.185)
H-abstraction	3.76121e-18	(0.0309)	3.76121e-18	(0.0309)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.932239	0.932239	0.932274	0.932274

Benzene+2-propynyl	0.0309205	0.963159	0.0309216	0.963195
C2H2+PhCH2	0.0191540	0.982313	0.0191547	0.982350
PhCCH+CH3	0.00929782	0.991611	0.00929816	0.991648
PhCHCCH2+H	0.00474772	0.996359	0.00474789	0.996396
PhCCCH3+H	0.00309834	0.999457	0.00309846	0.999495
Ph+MeAc	0.000393374	0.999851	0.000393388	0.999888
rad8	3.88071e-05	0.999889	3.88085e-05	0.999927
Phenyl+Allene	3.70843e-05	0.999927	0.00000	0.999927
rad9	3.63241e-05	0.999963	3.63255e-05	0.999963
PAH7+H	2.57304e-05	0.999989	2.57315e-05	0.999989
rad39	5.55869e-06	0.999994	5.55890e-06	0.999994
rad12	2.37048e-06	0.999997	2.37057e-06	0.999997
rad30	1.49361e-06	0.999998	1.49367e-06	0.999998
PhCH2CCH+H	8.24718e-07	0.999999	8.24749e-07	0.999999
PAH9+H	3.87199e-07	0.999999	3.87213e-07	0.999999
rad15	3.55173e-07	1.000000	3.55187e-07	1.000000
rad35	1.70394e-07	1.000000	1.70401e-07	1.000000
rad38	1.15085e-07	1.000000	1.15089e-07	1.000000
rad37	7.10189e-08	1.000000	7.10215e-08	1.000000
rad46	2.16340e-09	1.000000	2.16348e-09	1.000000
rad5	2.07071e-09	1.000000	2.07078e-09	1.000000
rad60syn	3.56127e-10	1.000000	3.56140e-10	1.000000
rad60anti	1.31091e-10	1.000000	1.31096e-10	1.000000
rad6	2.31448e-11	1.000000	2.31457e-11	1.000000
PAH3+H	5.36545e-12	1.000000	5.36565e-12	1.000000
rad19syn	2.76178e-12	1.000000	2.76188e-12	1.000000
rad59	1.55299e-12	1.000000	1.55305e-12	1.000000
rad28	5.29317e-13	1.000000	5.29337e-13	1.000000
rad50	1.98573e-13	1.000000	1.98581e-13	1.000000
rad54	7.36303e-14	1.000000	7.36330e-14	1.000000
rad26	7.21260e-14	1.000000	7.21287e-14	1.000000
PAH10+CH3	4.90482e-14	1.000000	4.90500e-14	1.000000
rad2	2.87951e-14	1.000000	2.87962e-14	1.000000
rad43	1.14663e-14	1.000000	1.14667e-14	1.000000
rad62	3.26829e-15	1.000000	3.26841e-15	1.000000
rad1	2.05637e-15	1.000000	2.05644e-15	1.000000
rad7	1.73651e-15	1.000000	1.73658e-15	1.000000
rad10	1.50198e-15	1.000000	1.50203e-15	1.000000
rad11	4.28104e-16	1.000000	4.28120e-16	1.000000
PhcycC3H3_A+H	2.69202e-16	1.000000	2.69212e-16	1.000000
rad3	2.51707e-16	1.000000	2.51715e-16	1.000000
rad70	1.54047e-16	1.000000	1.54052e-16	1.000000
rad4	1.31624e-16	1.000000	1.31630e-16	1.000000
rad52	1.14633e-16	1.000000	1.14638e-16	1.000000
rad55	7.20613e-17	1.000000	7.20641e-17	1.000000
rad14	1.13299e-17	1.000000	1.13304e-17	1.000000
rad13	9.91049e-18	1.000000	9.91086e-18	1.000000
PAH1+H	7.11980e-18	1.000000	7.12006e-18	1.000000
rad25	6.39032e-18	1.000000	6.39056e-18	1.000000
rad51	5.07773e-18	1.000000	5.07792e-18	1.000000
rad27	8.99081e-19	1.000000	8.99115e-19	1.000000
rad34	4.05530e-19	1.000000	4.05545e-19	1.000000
rad58	2.12987e-19	1.000000	2.12995e-19	1.000000
rad65	5.08171e-20	1.000000	5.08190e-20	1.000000
rad33	2.00221e-20	1.000000	2.00228e-20	1.000000
rad42	7.19654e-21	1.000000	7.19680e-21	1.000000
rad31	2.38143e-21	1.000000	2.38151e-21	1.000000
rad41	2.12408e-21	1.000000	2.12415e-21	1.000000
rad20	3.72282e-24	1.000000	3.72296e-24	1.000000
rad21	3.18187e-24	1.000000	3.18199e-24	1.000000
rad23	2.05277e-24	1.000000	2.05286e-24	1.000000
rad45	2.44446e-26	1.000000	2.44456e-26	1.000000
rad18	5.71453e-27	1.000000	5.71473e-27	1.000000
rad36	1.55465e-27	1.000000	1.55470e-27	1.000000
rad22	3.67811e-28	1.000000	3.67824e-28	1.000000
rad24	8.80253e-30	1.000000	8.80286e-30	1.000000
rad47	5.12438e-32	1.000000	5.12456e-32	1.000000

0.100000000E-05 Pa, 260.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.63720e-16	(1.00)	1.63713e-16	(1.00)
Formation of rad11	1.26419e-16	(0.772)	1.26412e-16	(0.772)
Formation of rad6	3.15515e-17	(0.193)	3.15499e-17	(0.193)
H-abstraction	5.75028e-18	(0.0351)	5.75028e-18	(0.0351)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.925668	0.925668	0.925711	0.925711

Benzene+2-propynyl	0.0351226	0.960790	0.0351242	0.960835
C2H2+PhCH2	0.0201991	0.980989	0.0202001	0.981035
PhCCH+CH3	0.0100170	0.991006	0.0100174	0.991052
PhCHCCH2+H	0.00506124	0.996068	0.00506148	0.996114
PhCCCH3+H	0.00330334	0.999371	0.00330349	0.999417
Ph+MeAc	0.000456131	0.999827	0.000456153	0.999873
Phenyl+Allene	4.67496e-05	0.999874	0.00000	0.999873
rad8	4.21965e-05	0.999916	4.21985e-05	0.999916
rad9	4.12418e-05	0.999957	4.12437e-05	0.999957
PAH7+H	2.96076e-05	0.999987	2.96090e-05	0.999986
rad39	6.53142e-06	0.999993	6.53173e-06	0.999993
rad12	2.64046e-06	0.999996	2.64059e-06	0.999996
rad30	1.61449e-06	0.999998	1.61457e-06	0.999997
PhCH2CCH+H	1.18127e-06	0.999999	1.18133e-06	0.999998
PAH9+H	4.27812e-07	0.999999	4.27832e-07	0.999999
rad15	3.90469e-07	1.000000	3.90487e-07	0.999999
rad35	1.85919e-07	1.000000	1.85928e-07	0.999999
rad38	1.28318e-07	1.000000	1.28325e-07	1.000000
rad37	9.01896e-08	1.000000	9.01938e-08	1.000000
rad5	2.95909e-09	1.000000	2.95923e-09	1.000000
rad46	2.56435e-09	1.000000	2.56448e-09	1.000000
rad60syn	4.44847e-10	1.000000	4.44868e-10	1.000000
rad60anti	1.66762e-10	1.000000	1.66769e-10	1.000000
rad6	1.86301e-11	1.000000	1.86310e-11	1.000000
PAH3+H	8.58423e-12	1.000000	8.58463e-12	1.000000
rad19syn	5.57648e-12	1.000000	5.57674e-12	1.000000
rad59	2.42908e-12	1.000000	2.42919e-12	1.000000
rad28	4.31903e-13	1.000000	4.31924e-13	1.000000
rad50	3.24311e-13	1.000000	3.24326e-13	1.000000
rad54	1.66744e-13	1.000000	1.66753e-13	1.000000
PAH10+CH3	1.09928e-13	1.000000	1.09933e-13	1.000000
rad26	5.96650e-14	1.000000	5.96678e-14	1.000000
rad2	3.01617e-14	1.000000	3.01631e-14	1.000000
rad43	2.54567e-14	1.000000	2.54578e-14	1.000000
rad62	7.80912e-15	1.000000	7.80948e-15	1.000000
rad1	2.18087e-15	1.000000	2.18098e-15	1.000000
rad10	1.57217e-15	1.000000	1.57225e-15	1.000000
rad7	1.40148e-15	1.000000	1.40155e-15	1.000000
PhcycC3H3_A+H	7.73852e-16	1.000000	7.73888e-16	1.000000
rad70	4.28320e-16	1.000000	4.28340e-16	1.000000
rad11	3.45763e-16	1.000000	3.45779e-16	1.000000
rad3	2.69973e-16	1.000000	2.69986e-16	1.000000
rad52	2.38195e-16	1.000000	2.38207e-16	1.000000
rad55	2.02608e-16	1.000000	2.02617e-16	1.000000
rad4	1.41685e-16	1.000000	1.41692e-16	1.000000
PAH1+H	2.22906e-17	1.000000	2.22916e-17	1.000000
rad51	1.28526e-17	1.000000	1.28531e-17	1.000000
rad14	9.76514e-18	1.000000	9.76560e-18	1.000000
rad13	8.01501e-18	1.000000	8.01538e-18	1.000000
rad25	5.56486e-18	1.000000	5.56512e-18	1.000000
rad34	1.30240e-18	1.000000	1.30246e-18	1.000000
rad27	7.92525e-19	1.000000	7.92562e-19	1.000000
rad58	6.22358e-19	1.000000	6.22386e-19	1.000000
rad65	1.39790e-19	1.000000	1.39797e-19	1.000000
rad42	2.44584e-20	1.000000	2.44595e-20	1.000000
rad33	1.63501e-20	1.000000	1.63509e-20	1.000000
rad41	7.28487e-21	1.000000	7.28521e-21	1.000000
rad31	3.32217e-21	1.000000	3.32232e-21	1.000000
rad23	4.49415e-24	1.000000	4.49436e-24	1.000000
rad20	3.79117e-24	1.000000	3.79134e-24	1.000000
rad21	3.27068e-24	1.000000	3.27083e-24	1.000000
rad45	5.86261e-26	1.000000	5.86289e-26	1.000000
rad18	5.44119e-27	1.000000	5.44145e-27	1.000000
rad36	3.74747e-27	1.000000	3.74765e-27	1.000000
rad22	3.69793e-28	1.000000	3.69811e-28	1.000000
rad24	1.06411e-29	1.000000	1.06415e-29	1.000000
rad47	1.34824e-31	1.000000	1.34831e-31	1.000000

0.100000000E-05 Pa, 270.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.15887e-16	(1.00)	2.15874e-16	(1.00)
Formation of rad11	1.64133e-16	(0.760)	1.64123e-16	(0.760)
Formation of rad6	4.32452e-17	(0.200)	4.32425e-17	(0.200)
H-abstraction	8.50919e-18	(0.0394)	8.50919e-18	(0.0394)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.918856	0.918856	0.918910	0.918910

Benzene+2-propynyl	0.0394150	0.958271	0.0394174	0.958327
C2H2+PhCH2	0.0213147	0.979586	0.0213160	0.979643
PhCCH+CH3	0.0107799	0.990366	0.0107805	0.990424
PhCHCCH2+H	0.00539067	0.995756	0.00539099	0.995815
PhCCCH3+H	0.00351652	0.999273	0.00351672	0.999331
Ph+MeAc	0.000526519	0.999800	0.000526549	0.999858
Phenyl+Allene	5.86203e-05	0.999858	0.000000	0.999858
rad9	4.67689e-05	0.999905	4.67716e-05	0.999905
rad8	4.57943e-05	0.999951	4.57969e-05	0.999950
PAH7+H	3.40344e-05	0.999985	3.40364e-05	0.999984
rad39	7.65570e-06	0.999992	7.65615e-06	0.999992
rad12	2.93270e-06	0.999995	2.93288e-06	0.999995
rad30	1.74662e-06	0.999997	1.74672e-06	0.999997
PhCH2CCH+H	1.66639e-06	0.999999	1.66650e-06	0.999998
PAH9+H	4.73523e-07	0.999999	4.73552e-07	0.999999
rad15	4.29618e-07	1.000000	4.29643e-07	0.999999
rad35	2.03179e-07	1.000000	2.03191e-07	1.000000
rad38	1.43329e-07	1.000000	1.43337e-07	1.000000
rad37	1.12974e-07	1.000000	1.12981e-07	1.000000
rad5	4.14375e-09	1.000000	4.14399e-09	1.000000
rad46	3.04327e-09	1.000000	3.04344e-09	1.000000
rad60syn	5.53958e-10	1.000000	5.53990e-10	1.000000
rad60anti	2.11224e-10	1.000000	2.11236e-10	1.000000
rad6	1.50540e-11	1.000000	1.50548e-11	1.000000
PAH3+H	1.34418e-11	1.000000	1.34426e-11	1.000000
rad19syn	1.07499e-11	1.000000	1.07506e-11	1.000000
rad59	3.72266e-12	1.000000	3.72288e-12	1.000000
rad50	5.19446e-13	1.000000	5.19476e-13	1.000000
rad54	3.56850e-13	1.000000	3.56871e-13	1.000000
rad28	3.52835e-13	1.000000	3.52856e-13	1.000000
PAH10+CH3	2.32536e-13	1.000000	2.32550e-13	1.000000
rad43	5.33184e-14	1.000000	5.33216e-14	1.000000
rad26	4.94247e-14	1.000000	4.94275e-14	1.000000
rad2	3.25178e-14	1.000000	3.25197e-14	1.000000
rad62	1.74990e-14	1.000000	1.75000e-14	1.000000
rad1	2.38285e-15	1.000000	2.38298e-15	1.000000
PhcycC3H3_A+H	2.04647e-15	1.000000	2.04659e-15	1.000000
rad10	1.70089e-15	1.000000	1.70099e-15	1.000000
rad7	1.13555e-15	1.000000	1.13562e-15	1.000000
rad70	1.09950e-15	1.000000	1.09956e-15	1.000000
rad55	5.25297e-16	1.000000	5.25327e-16	1.000000
rad52	4.74037e-16	1.000000	4.74065e-16	1.000000
rad3	2.93854e-16	1.000000	2.93871e-16	1.000000
rad11	2.80371e-16	1.000000	2.80387e-16	1.000000
rad4	1.54818e-16	1.000000	1.54828e-16	1.000000
PAH1+H	6.34375e-17	1.000000	6.34413e-17	1.000000
rad51	3.04906e-17	1.000000	3.04924e-17	1.000000
rad14	8.42689e-18	1.000000	8.42738e-18	1.000000
rad13	6.50830e-18	1.000000	6.50869e-18	1.000000
rad25	4.85369e-18	1.000000	4.85398e-18	1.000000
rad34	3.78996e-18	1.000000	3.79018e-18	1.000000
rad58	1.67023e-18	1.000000	1.67033e-18	1.000000
rad27	7.00133e-19	1.000000	7.00173e-19	1.000000
rad65	3.56317e-19	1.000000	3.56339e-19	1.000000
rad42	7.47520e-20	1.000000	7.47563e-20	1.000000
rad41	2.24435e-20	1.000000	2.24448e-20	1.000000
rad33	1.34266e-20	1.000000	1.34273e-20	1.000000
rad31	4.70236e-21	1.000000	4.70264e-21	1.000000
rad23	1.03042e-23	1.000000	1.03048e-23	1.000000
rad20	3.88974e-24	1.000000	3.88996e-24	1.000000
rad21	3.38875e-24	1.000000	3.38895e-24	1.000000
rad45	1.49000e-25	1.000000	1.49008e-25	1.000000
rad36	9.57825e-27	1.000000	9.57881e-27	1.000000
rad18	5.20379e-27	1.000000	5.20409e-27	1.000000
rad22	4.09044e-28	1.000000	4.09068e-28	1.000000
rad24	1.30346e-29	1.000000	1.30354e-29	1.000000
rad47	3.26704e-31	1.000000	3.26722e-31	1.000000

0.100000000E-05 Pa, 280.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.79491e-16	(1.00)	2.79471e-16	(1.00)
Formation of rad11	2.09281e-16	(0.749)	2.09265e-16	(0.749)
Formation of rad6	5.79792e-17	(0.207)	5.79748e-17	(0.207)
H-abstraction	1.22310e-17	(0.0438)	1.22310e-17	(0.0438)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.911836	0.911836	0.911903	0.911903

Benzene+2-propynyl	0.0437616	0.955598	0.0437648	0.955668
C2H2+PhCH2	0.0225043	0.978102	0.0225060	0.978174
PhCCH+CH3	0.0115865	0.989689	0.0115874	0.989761
PhCHCCH2+H	0.00573582	0.995425	0.00573624	0.995498
PhCCCH3+H	0.00373725	0.999162	0.00373752	0.999235
Ph+MeAc	0.000605008	0.999767	0.000605052	0.999840
Phenyl+Allene	7.31217e-05	0.999840	0.000000	0.999840
rad9	5.29655e-05	0.999893	5.29693e-05	0.999893
rad8	4.95970e-05	0.999943	4.96007e-05	0.999943
PAH7+H	3.90766e-05	0.999982	3.90794e-05	0.999982
rad39	8.95076e-06	0.999991	8.95142e-06	0.999991
rad12	3.24751e-06	0.999994	3.24775e-06	0.999994
PhCH2CCH+H	2.31797e-06	0.999996	2.31813e-06	0.999996
rad30	1.89088e-06	0.999998	1.89102e-06	0.999998
PAH9+H	5.24953e-07	0.999999	5.24991e-07	0.999999
rad15	4.72984e-07	0.999999	4.73018e-07	0.999999
rad35	2.22360e-07	0.999999	2.22375e-07	0.999999
rad38	1.60346e-07	1.000000	1.60358e-07	1.000000
rad37	1.39788e-07	1.000000	1.39799e-07	1.000000
rad5	5.69641e-09	1.000000	5.69682e-09	1.000000
rad46	3.61459e-09	1.000000	3.61486e-09	1.000000
rad60syn	6.87594e-10	1.000000	6.87644e-10	1.000000
rad60anti	2.66376e-10	1.000000	2.66397e-10	1.000000
PAH3+H	2.06373e-11	1.000000	2.06389e-11	1.000000
rad19syn	1.98735e-11	1.000000	1.98750e-11	1.000000
rad6	1.22154e-11	1.000000	1.22163e-11	1.000000
rad59	5.59973e-12	1.000000	5.60014e-12	1.000000
rad50	8.17020e-13	1.000000	8.17079e-13	1.000000
rad54	7.25446e-13	1.000000	7.25499e-13	1.000000
PAH10+CH3	4.66809e-13	1.000000	4.66844e-13	1.000000
rad28	2.88554e-13	1.000000	2.88575e-13	1.000000
rad43	1.05950e-13	1.000000	1.05959e-13	1.000000
rad26	4.09989e-14	1.000000	4.10018e-14	1.000000
rad62	3.69972e-14	1.000000	3.69999e-14	1.000000
rad2	3.64605e-14	1.000000	3.64632e-14	1.000000
PhcycC3H3_A+H	5.01694e-15	1.000000	5.01731e-15	1.000000
rad1	2.71030e-15	1.000000	2.71051e-15	1.000000
rad70	2.62501e-15	1.000000	2.62520e-15	1.000000
rad10	1.90033e-15	1.000000	1.90047e-15	1.000000
rad55	1.26527e-15	1.000000	1.26536e-15	1.000000
rad7	9.24027e-16	1.000000	9.24094e-16	1.000000
rad52	9.06729e-16	1.000000	9.06795e-16	1.000000
rad3	3.32392e-16	1.000000	3.32417e-16	1.000000
rad11	2.28332e-16	1.000000	2.28349e-16	1.000000
rad4	1.75855e-16	1.000000	1.75869e-16	1.000000
PAH1+H	1.65665e-16	1.000000	1.65677e-16	1.000000
rad51	6.81449e-17	1.000000	6.81498e-17	1.000000
rad34	1.00923e-17	1.000000	1.00931e-17	1.000000
rad14	7.28137e-18	1.000000	7.28190e-18	1.000000
rad13	5.30813e-18	1.000000	5.30851e-18	1.000000
rad25	4.24033e-18	1.000000	4.24065e-18	1.000000
rad58	4.14902e-18	1.000000	4.14932e-18	1.000000
rad65	8.47087e-19	1.000000	8.47149e-19	1.000000
rad27	6.19912e-19	1.000000	6.19957e-19	1.000000
rad42	2.07734e-19	1.000000	2.07750e-19	1.000000
rad41	6.28127e-20	1.000000	6.28173e-20	1.000000
rad33	1.10945e-20	1.000000	1.10953e-20	1.000000
rad31	6.74340e-21	1.000000	6.74390e-21	1.000000
rad23	2.46387e-23	1.000000	2.46406e-23	1.000000
rad20	4.02126e-24	1.000000	4.02156e-24	1.000000
rad21	3.53955e-24	1.000000	3.53980e-24	1.000000
rad45	3.96800e-25	1.000000	3.96829e-25	1.000000
rad36	2.56681e-26	1.000000	2.56699e-26	1.000000
rad18	4.99859e-27	1.000000	4.99896e-27	1.000000
rad22	5.24941e-28	1.000000	5.24980e-28	1.000000
rad24	1.61857e-29	1.000000	1.61869e-29	1.000000
rad47	7.35921e-31	1.000000	7.35975e-31	1.000000

0.100000000E-05 Pa, 290.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.55893e-16	(1.00)	3.55861e-16	(1.00)
Formation of rad11	2.62555e-16	(0.738)	2.62530e-16	(0.738)
Formation of rad6	7.62093e-17	(0.214)	7.62020e-17	(0.214)
H-abstraction	1.71289e-17	(0.0481)	1.71289e-17	(0.0481)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.904640	0.904640	0.904721	0.904721

Benzene+2-propynyl	0.0481294	0.952769	0.0481337	0.952855
C2H2+PhCH2	0.0237711	0.976540	0.0237732	0.976628
PhCCH+CH3	0.0124368	0.988977	0.0124379	0.989066
PhCHCCH2+H	0.00609640	0.995073	0.00609695	0.995163
PhCCCH3+H	0.00396477	0.999038	0.00396513	0.999128
Ph+MeAc	0.000692030	0.999730	0.000692093	0.999820
Phenyl+Allene	9.07418e-05	0.999821	0.000000	0.999820
rad9	5.98951e-05	0.999881	5.99006e-05	0.999880
rad8	5.35991e-05	0.999934	5.36039e-05	0.999934
PAH7+H	4.48050e-05	0.999979	4.48091e-05	0.999979
rad39	1.04374e-05	0.999990	1.04384e-05	0.999989
rad12	3.58496e-06	0.999993	3.58529e-06	0.999993
PhCH2CCH+H	3.18247e-06	0.999996	3.18276e-06	0.999996
rad30	2.04817e-06	0.999998	2.04836e-06	0.999998
PAH9+H	5.82779e-07	0.999999	5.82832e-07	0.999999
rad15	5.20951e-07	1.000000	5.20998e-07	0.999999
rad35	2.43660e-07	1.000000	2.43682e-07	0.999999
rad38	1.79627e-07	1.000000	1.79643e-07	0.999999
rad37	1.71057e-07	1.000000	1.71072e-07	1.000000
rad5	7.69904e-09	1.000000	7.69974e-09	1.000000
rad46	4.29513e-09	1.000000	4.29552e-09	1.000000
rad60syn	8.50554e-10	1.000000	8.50631e-10	1.000000
rad60anti	3.34449e-10	1.000000	3.34479e-10	1.000000
rad19syn	3.53638e-11	1.000000	3.53670e-11	1.000000
PAH3+H	3.11101e-11	1.000000	3.11129e-11	1.000000
rad6	9.95971e-12	1.000000	9.96061e-12	1.000000
rad59	8.27903e-12	1.000000	8.27978e-12	1.000000
rad54	1.40689e-12	1.000000	1.40702e-12	1.000000
rad50	1.26312e-12	1.000000	1.26323e-12	1.000000
PAH10+CH3	8.93381e-13	1.000000	8.93462e-13	1.000000
rad28	2.36222e-13	1.000000	2.36244e-13	1.000000
rad43	2.00696e-13	1.000000	2.00715e-13	1.000000
rad62	7.41771e-14	1.000000	7.41838e-14	1.000000
rad2	4.17372e-14	1.000000	4.17410e-14	1.000000
rad26	3.40591e-14	1.000000	3.40622e-14	1.000000
PhcycC3H3_A+H	1.14776e-14	1.000000	1.14787e-14	1.000000
rad70	5.86612e-15	1.000000	5.86666e-15	1.000000
rad1	3.15045e-15	1.000000	3.15073e-15	1.000000
rad55	2.84964e-15	1.000000	2.84991e-15	1.000000
rad10	2.17861e-15	1.000000	2.17880e-15	1.000000
rad52	1.67153e-15	1.000000	1.67169e-15	1.000000
rad7	7.55585e-16	1.000000	7.55653e-16	1.000000
PAH1+H	4.00257e-16	1.000000	4.00293e-16	1.000000
rad3	3.83065e-16	1.000000	3.83100e-16	1.000000
rad4	2.03575e-16	1.000000	2.03593e-16	1.000000
rad11	1.86870e-16	1.000000	1.86888e-16	1.000000
rad51	1.44107e-16	1.000000	1.44120e-16	1.000000
rad34	2.48052e-17	1.000000	2.48074e-17	1.000000
rad58	9.60514e-18	1.000000	9.60604e-18	1.000000
rad14	6.30002e-18	1.000000	6.30059e-18	1.000000
rad13	4.35099e-18	1.000000	4.35138e-18	1.000000
rad25	3.71084e-18	1.000000	3.71117e-18	1.000000
rad65	1.88893e-18	1.000000	1.88909e-18	1.000000
rad27	5.50176e-19	1.000000	5.50225e-19	1.000000
rad42	5.29961e-19	1.000000	5.30009e-19	1.000000
rad41	1.61253e-19	1.000000	1.61268e-19	1.000000
rad31	9.78114e-21	1.000000	9.78204e-21	1.000000
rad33	9.23298e-21	1.000000	9.23382e-21	1.000000
rad23	6.11484e-23	1.000000	6.11539e-23	1.000000
rad20	4.18954e-24	1.000000	4.18992e-24	1.000000
rad21	3.72770e-24	1.000000	3.72803e-24	1.000000
rad45	1.10375e-24	1.000000	1.10385e-24	1.000000
rad36	7.18927e-26	1.000000	7.18992e-26	1.000000
rad18	4.82270e-27	1.000000	4.82313e-27	1.000000
rad22	8.07718e-28	1.000000	8.07792e-28	1.000000
rad24	2.03837e-29	1.000000	2.03856e-29	1.000000
rad47	1.55335e-30	1.000000	1.55349e-30	1.000000

0.100000000E-05 Pa, 300.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	6.34395e-16	(1.00)	6.34337e-16	(1.00)
Formation of rad11	4.51153e-16	(0.711)	4.51110e-16	(0.711)
Formation of rad6	1.51589e-16	(0.239)	1.51574e-16	(0.239)
H-abstraction	3.16530e-17	(0.0499)	3.16530e-17	(0.0499)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891220	0.891220	0.891302	0.891302

Benzene+2-propynyl	0.0498949	0.941115	0.0498994	0.941201
C2H2+PhCH2	0.0319120	0.973027	0.0319149	0.973116
PhCCH+CH3	0.0149060	0.987933	0.0149074	0.988023
PhCHCCH2+H	0.00657740	0.994511	0.00657800	0.994601
PhCCCH3+H	0.00446897	0.998980	0.00446939	0.999071
Ph+MeAc	0.000840200	0.999820	0.000840277	0.999911
Phenyl+Allene	9.13501e-05	0.999911	0.000000	0.999911
PAH7+H	6.60536e-05	0.999977	6.60595e-05	0.999977
rad39	1.31472e-05	0.999990	1.31483e-05	0.999990
PhCH2CCH+H	5.22127e-06	0.999996	5.22175e-06	0.999996
rad30	2.21234e-06	0.999998	2.21254e-06	0.999998
PAH9+H	8.00101e-07	0.999999	8.00174e-07	0.999999
rad19anti	7.04519e-07	0.999999	7.04583e-07	0.999999
rad35	2.87140e-07	1.000000	2.87166e-07	1.000000
rad37	2.27554e-07	1.000000	2.27575e-07	1.000000
rad38	2.12985e-07	1.000000	2.13004e-07	1.000000
rad46	5.68755e-09	1.000000	5.68806e-09	1.000000
rad60syn	1.08211e-09	1.000000	1.08221e-09	1.000000
rad60anti	4.39252e-10	1.000000	4.39291e-10	1.000000
rad6	2.80383e-10	1.000000	2.80408e-10	1.000000
rad19syn	6.92341e-11	1.000000	6.92404e-11	1.000000
PAH3+H	6.10400e-11	1.000000	6.10456e-11	1.000000
rad59	1.31853e-11	1.000000	1.31864e-11	1.000000
rad28	3.25642e-12	1.000000	3.25672e-12	1.000000
rad54	3.21888e-12	1.000000	3.21917e-12	1.000000
rad50	2.22681e-12	1.000000	2.22701e-12	1.000000
PAH10+CH3	2.02585e-12	1.000000	2.02603e-12	1.000000
rad2	1.12503e-12	1.000000	1.12514e-12	1.000000
rad67	7.75554e-13	1.000000	7.75624e-13	1.000000
rad26	6.90862e-13	1.000000	6.90925e-13	1.000000
rad43	4.01324e-13	1.000000	4.01361e-13	1.000000
rad62	1.66581e-13	1.000000	1.66596e-13	1.000000
rad1	8.47760e-14	1.000000	8.47837e-14	1.000000
rad10	6.73881e-14	1.000000	6.73943e-14	1.000000
PhcycC3H3_A+H	4.89128e-14	1.000000	4.89173e-14	1.000000
rad7	2.49461e-14	1.000000	2.49484e-14	1.000000
rad70	1.94638e-14	1.000000	1.94656e-14	1.000000
rad3	1.66759e-14	1.000000	1.66774e-14	1.000000
rad55	8.48747e-15	1.000000	8.48825e-15	1.000000
rad4	8.29297e-15	1.000000	8.29373e-15	1.000000
rad11	6.12141e-15	1.000000	6.12197e-15	1.000000
rad52	3.84231e-15	1.000000	3.84266e-15	1.000000
PAH1+H	2.34440e-15	1.000000	2.34462e-15	1.000000
rad51	4.07404e-16	1.000000	4.07441e-16	1.000000
rad34	1.57781e-16	1.000000	1.57796e-16	1.000000
rad13	1.44071e-16	1.000000	1.44084e-16	1.000000
rad25	6.62273e-17	1.000000	6.62333e-17	1.000000
rad14	5.76130e-17	1.000000	5.76183e-17	1.000000
rad58	2.99505e-17	1.000000	2.99533e-17	1.000000
rad27	1.49766e-17	1.000000	1.49781e-17	1.000000
rad65	6.35784e-18	1.000000	6.35842e-18	1.000000
rad42	4.93395e-18	1.000000	4.93440e-18	1.000000
rad23	3.82575e-18	1.000000	3.82610e-18	1.000000
rad41	1.53085e-18	1.000000	1.53098e-18	1.000000
rad33	7.31933e-19	1.000000	7.31999e-19	1.000000
rad31	2.87741e-19	1.000000	2.87767e-19	1.000000
rad45	2.09864e-19	1.000000	2.09883e-19	1.000000
rad53	1.09682e-19	1.000000	1.09692e-19	1.000000
rad64	2.63852e-20	1.000000	2.63876e-20	1.000000
rad21	1.11232e-20	1.000000	1.11242e-20	1.000000
rad20	8.50414e-21	1.000000	8.50492e-21	1.000000
rad36	7.15285e-21	1.000000	7.15351e-21	1.000000
rad56	3.10995e-22	1.000000	3.11023e-22	1.000000
rad9	1.76529e-22	1.000000	1.76545e-22	1.000000
rad22	8.39128e-23	1.000000	8.39205e-23	1.000000
rad18	8.25845e-23	1.000000	8.25921e-23	1.000000
rad61	3.56436e-23	1.000000	3.56468e-23	1.000000
rad68syn	3.28824e-23	1.000000	3.28854e-23	1.000000
rad68anti	2.37014e-23	1.000000	2.37036e-23	1.000000
rad5	4.04154e-24	1.000000	4.04191e-24	1.000000
rad24	4.90051e-25	1.000000	4.90096e-25	1.000000
rad15	1.04197e-25	1.000000	1.04206e-25	1.000000
rad40syn	5.33122e-26	1.000000	5.33171e-26	1.000000
rad40anti	1.32361e-26	1.000000	1.32374e-26	1.000000
PAH8+H	1.18606e-26	1.000000	1.18617e-26	1.000000
rad73	1.00620e-26	1.000000	1.00629e-26	1.000000
rad12	1.73154e-28	1.000000	1.73170e-28	1.000000
rad71	9.35042e-29	1.000000	9.35128e-29	1.000000
rad47	2.86303e-30	1.000000	2.86328e-30	1.000000
rad72	1.61637e-39	1.000000	1.61651e-39	1.000000

rad8 | 1.55119e-41 1.00000 | 1.55132e-41 1.000000

0.100000000E-05 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.11288e-15 (1.00)	5.10968e-15 (1.00)
Formation of rad11	3.08094e-15 (0.603)	3.07881e-15 (0.603)
Formation of rad6	1.54092e-15 (0.301)	1.53985e-15 (0.301)
H-abstraction	4.91025e-16 (0.0960)	4.91025e-16 (0.0961)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.804486	0.804486	0.804989	0.804989
Benzene+2-propynyl	0.0960368	0.900522	0.0960969	0.901086
C2H2+PhCH2	0.0525420	0.953065	0.0525750	0.953661
PhCCH+CH3	0.0262534	0.979318	0.0262699	0.979931
PhCHCCH2+H	0.0106705	0.989988	0.0106772	0.990608
PhCCCH3+H	0.00676078	0.996749	0.00676501	0.997373
Ph+MeAc	0.00228511	0.999034	0.00228654	0.999659
Phenyl+Allene	0.000625754	0.999660	0.000000	0.999659
PAH7+H	0.000215668	0.999876	0.000215803	0.999875
PhCH2CCH+H	6.37921e-05	0.999940	6.38320e-05	0.999939
rad39	4.88389e-05	0.999988	4.88695e-05	0.999988
rad30	4.71373e-06	0.999993	4.71669e-06	0.999993
rad19anti	2.55283e-06	0.999996	2.55443e-06	0.999995
PAH9+H	2.27172e-06	0.999998	2.27314e-06	0.999998
rad37	9.72231e-07	0.999999	9.72835e-07	0.999998
rad35	7.27596e-07	1.000000	7.28051e-07	0.999999
rad38	6.64248e-07	1.000000	6.64663e-07	1.000000
rad46	2.95927e-08	1.000000	2.96111e-08	1.000000
rad60syn	6.77132e-09	1.000000	6.77556e-09	1.000000
rad19syn	4.62790e-09	1.000000	4.63079e-09	1.000000
rad60anti	3.07480e-09	1.000000	3.07673e-09	1.000000
PAH3+H	1.45800e-09	1.000000	1.45891e-09	1.000000
rad54	4.18669e-10	1.000000	4.18931e-10	1.000000
rad59	2.84711e-10	1.000000	2.84889e-10	1.000000
PAH10+CH3	1.98074e-10	1.000000	1.98198e-10	1.000000
rad50	7.81204e-11	1.000000	7.81693e-11	1.000000
rad6	5.57653e-11	1.000000	5.58002e-11	1.000000
rad43	3.26732e-11	1.000000	3.26936e-11	1.000000
rad67	2.48951e-11	1.000000	2.49108e-11	1.000000
PhcycC3H3_A+H	2.37988e-11	1.000000	2.38137e-11	1.000000
rad62	2.26679e-11	1.000000	2.26821e-11	1.000000
rad70	7.63979e-12	1.000000	7.64458e-12	1.000000
rad2	4.95208e-12	1.000000	4.95519e-12	1.000000
rad55	3.50822e-12	1.000000	3.51042e-12	1.000000
PAH1+H	2.19400e-12	1.000000	2.19537e-12	1.000000
rad28	5.71311e-13	1.000000	5.71669e-13	1.000000
rad1	4.60882e-13	1.000000	4.61170e-13	1.000000
rad52	4.56316e-13	1.000000	4.56602e-13	1.000000
rad10	2.86441e-13	1.000000	2.86620e-13	1.000000
rad34	1.75088e-13	1.000000	1.75198e-13	1.000000
rad51	1.36997e-13	1.000000	1.37083e-13	1.000000
rad26	1.32991e-13	1.000000	1.33074e-13	1.000000
rad3	1.00670e-13	1.000000	1.00733e-13	1.000000
rad4	5.30251e-14	1.000000	5.30583e-14	1.000000
rad58	1.74184e-14	1.000000	1.74293e-14	1.000000
rad42	7.28195e-15	1.000000	7.28651e-15	1.000000
rad23	6.83210e-15	1.000000	6.83638e-15	1.000000
rad7	5.24201e-15	1.000000	5.24530e-15	1.000000
rad65	3.20497e-15	1.000000	3.20698e-15	1.000000
rad41	2.20567e-15	1.000000	2.20705e-15	1.000000
rad11	1.37413e-15	1.000000	1.37500e-15	1.000000
rad45	1.00291e-15	1.000000	1.00354e-15	1.000000
rad53	9.04225e-16	1.000000	9.04789e-16	1.000000
rad64	3.15111e-16	1.000000	3.15309e-16	1.000000
rad36	3.86828e-17	1.000000	3.87070e-17	1.000000
rad13	3.26159e-17	1.000000	3.26363e-17	1.000000
rad25	2.27651e-17	1.000000	2.27794e-17	1.000000
rad14	1.82251e-17	1.000000	1.82365e-17	1.000000
rad56	1.60193e-17	1.000000	1.60293e-17	1.000000
rad27	6.00272e-18	1.000000	6.00648e-18	1.000000
rad31	4.49592e-18	1.000000	4.49873e-18	1.000000
rad68syn	1.85188e-18	1.000000	1.85304e-18	1.000000
rad68anti	1.33289e-18	1.000000	1.33373e-18	1.000000
rad61	9.28153e-19	1.000000	9.28733e-19	1.000000
rad33	5.65102e-19	1.000000	5.65456e-19	1.000000
rad21	2.90443e-20	1.000000	2.90625e-20	1.000000
rad20	1.85843e-20	1.000000	1.85959e-20	1.000000

rad40syn	1.44546e-20	1.00000	1.44636e-20	1.000000
rad22	1.14618e-20	1.00000	1.14690e-20	1.000000
PAH8+H	8.90782e-21	1.00000	8.91340e-21	1.000000
rad40anti	3.67526e-21	1.00000	3.67757e-21	1.000000
rad9	2.87808e-21	1.00000	2.87988e-21	1.000000
rad73	2.38302e-21	1.00000	2.38451e-21	1.000000
rad71	9.34553e-23	1.00000	9.35133e-23	1.000000
rad18	8.34656e-23	1.00000	8.35178e-23	1.000000
rad24	1.02282e-23	1.00000	1.02345e-23	1.000000
rad5	5.34464e-24	1.00000	5.34799e-24	1.000000
rad15	1.78240e-24	1.00000	1.78351e-24	1.000000
rad12	1.77140e-26	1.00000	1.77251e-26	1.000000
rad47	7.50666e-28	1.00000	7.51136e-28	1.000000
rad72	1.04372e-28	1.00000	1.04437e-28	1.000000
rad8	4.40959e-39	1.00000	4.41234e-39	1.000000

0.100000000E-05 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.11551e-14 (1.00)	2.10968e-14 (1.00)
Formation of rad11	1.10850e-14 (0.524)	1.10494e-14 (0.524)
Formation of rad6	7.08033e-15 (0.335)	7.05760e-15 (0.335)
H-abstraction	2.98976e-15 (0.141)	2.98976e-15 (0.142)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.706762	0.706762	0.708716	0.708716
Benzene+2-propynyl	0.141326	0.848088	0.141717	0.850433
C2H2+PhCH2	0.0811037	0.929191	0.0813279	0.931761
PhCCH+CH3	0.0389496	0.968141	0.0390573	0.970818
PhCHCCH2+H	0.0153921	0.983533	0.0154346	0.986253
PhCCCH3+H	0.00823927	0.991772	0.00826206	0.994515
Ph+MeAc	0.00432839	0.996101	0.00434036	0.998855
Phenyl+Allene	0.00275756	0.998858	0.000000	0.998855
PAH7+H	0.000574793	0.999433	0.000576382	0.999432
PhCH2CCH+H	0.000399546	0.999833	0.000400651	0.999832
rad39	0.000137925	0.999971	0.000138306	0.999971
rad30	9.14625e-06	0.999980	9.17153e-06	0.999980
rad19anti	7.87872e-06	0.999988	7.90051e-06	0.999988
PAH9+H	6.12734e-06	0.999994	6.14428e-06	0.999994
rad37	2.41829e-06	0.999996	2.42498e-06	0.999996
rad38	1.93439e-06	0.999998	1.93974e-06	0.999998
rad35	1.76562e-06	1.000000	1.77051e-06	1.000000
rad46	1.27870e-07	1.000000	1.28224e-07	1.000000
rad19syn	7.63986e-08	1.000000	7.66098e-08	1.000000
rad60syn	2.91346e-08	1.000000	2.92151e-08	1.000000
PAH3+H	1.45909e-08	1.000000	1.46312e-08	1.000000
rad60anti	1.41795e-08	1.000000	1.42187e-08	1.000000
rad54	1.02843e-08	1.000000	1.03128e-08	1.000000
PAH10+CH3	3.35592e-09	1.000000	3.36520e-09	1.000000
rad59	2.61933e-09	1.000000	2.62658e-09	1.000000
PhcycC3H3_A+H	1.25838e-09	1.000000	1.26187e-09	1.000000
rad50	1.15864e-09	1.000000	1.16185e-09	1.000000
rad62	4.84009e-10	1.000000	4.85347e-10	1.000000
rad43	4.60419e-10	1.000000	4.61691e-10	1.000000
rad67	3.97898e-10	1.000000	3.98999e-10	1.000000
rad70	3.42517e-10	1.000000	3.43464e-10	1.000000
PAH1+H	1.64298e-10	1.000000	1.64753e-10	1.000000
rad55	1.59822e-10	1.000000	1.60264e-10	1.000000
rad6	2.91728e-11	1.000000	2.92535e-11	1.000000
rad2	1.82752e-11	1.000000	1.83256e-11	1.000000
rad34	1.41616e-11	1.000000	1.42007e-11	1.000000
rad52	1.34820e-11	1.000000	1.35193e-11	1.000000
rad51	7.24797e-12	1.000000	7.26801e-12	1.000000
rad1	2.19730e-12	1.000000	2.20338e-12	1.000000
rad58	1.01105e-12	1.000000	1.01385e-12	1.000000
rad10	8.38090e-13	1.000000	8.40407e-13	1.000000
rad23	6.78708e-13	1.000000	6.80584e-13	1.000000
rad42	6.16327e-13	1.000000	6.18031e-13	1.000000
rad3	4.91044e-13	1.000000	4.92402e-13	1.000000
rad4	2.78995e-13	1.000000	2.79767e-13	1.000000
rad53	2.35883e-13	1.000000	2.36535e-13	1.000000
rad65	2.01730e-13	1.000000	2.02288e-13	1.000000
rad45	1.67672e-13	1.000000	1.68136e-13	1.000000
rad41	1.64828e-13	1.000000	1.65284e-13	1.000000
rad28	1.07448e-13	1.000000	1.07745e-13	1.000000
rad64	9.67571e-14	1.000000	9.70247e-14	1.000000
rad26	2.82082e-14	1.000000	2.82863e-14	1.000000
rad56	1.22099e-14	1.000000	1.22437e-14	1.000000

rad36	9.13226e-15	1.00000	9.15746e-15	1.00000
rad7	2.95200e-15	1.00000	2.96017e-15	1.00000
rad68syn	1.45353e-15	1.00000	1.45755e-15	1.00000
rad68anti	1.02673e-15	1.00000	1.02957e-15	1.00000
rad11	8.19784e-16	1.00000	8.22050e-16	1.00000
rad61	4.14124e-16	1.00000	4.15269e-16	1.00000
PAH8+H	3.33501e-17	1.00000	3.34424e-17	1.00000
rad40syn	2.92058e-17	1.00000	2.92866e-17	1.00000
rad31	2.28425e-17	1.00000	2.29057e-17	1.00000
rad13	2.14815e-17	1.00000	2.15409e-17	1.00000
rad25	1.03951e-17	1.00000	1.04239e-17	1.00000
rad40anti	8.32440e-18	1.00000	8.34742e-18	1.00000
rad14	7.34720e-18	1.00000	7.36752e-18	1.00000
rad73	5.17372e-18	1.00000	5.18803e-18	1.00000
rad27	3.30353e-18	1.00000	3.31267e-18	1.00000
rad33	1.19229e-18	1.00000	1.19558e-18	1.00000
rad71	4.84663e-19	1.00000	4.86004e-19	1.00000
rad22	4.14305e-19	1.00000	4.15450e-19	1.00000
rad21	1.72017e-19	1.00000	1.72492e-19	1.00000
rad9	1.50115e-19	1.00000	1.50530e-19	1.00000
rad20	8.82348e-20	1.00000	8.84787e-20	1.00000
rad24	6.92381e-22	1.00000	6.94295e-22	1.00000
rad72	1.39273e-22	1.00000	1.39657e-22	1.00000
rad18	1.35102e-22	1.00000	1.35476e-22	1.00000
rad15	9.89425e-23	1.00000	9.92167e-23	1.00000
rad12	6.95832e-24	1.00000	6.97756e-24	1.00000
rad5	4.60024e-24	1.00000	4.61296e-24	1.00000
rad47	4.86077e-26	1.00000	4.87421e-26	1.00000
rad8	8.30267e-36	1.00000	8.32562e-36	1.00000

0.100000000E-05 Pa, 600.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	6.08120e-14	(1.00)	6.02869e-14	(1.00)
Formation of rad11	2.83304e-14	(0.466)	2.80313e-14	(0.465)
Formation of rad6	2.13840e-14	(0.352)	2.11582e-14	(0.351)
H-abstraction	1.10975e-14	(0.182)	1.10975e-14	(0.184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.606934	0.606934	0.612219	0.612219
Benzene+2-propynyl	0.182488	0.789422	0.184077	0.796297
C2H2+PhCH2	0.112836	0.902258	0.113819	0.910116
PhCCH+CH3	0.0502927	0.952551	0.0507307	0.960846
PhCHCCH2+H	0.0208956	0.973447	0.0210776	0.981924
Phenyl+Allene	0.00863333	0.982080	0.000000	0.981924
PhCCCH3+H	0.00840933	0.990489	0.00848258	0.990406
Ph+MeAc	0.00630896	0.996798	0.00636390	0.996770
PhCH2CCH+H	0.00158536	0.998384	0.00159917	0.998369
PAH7+H	0.00124706	0.999631	0.00125792	0.999627
rad39	0.000304554	0.999935	0.000307206	0.999935
rad19anti	2.07283e-05	0.999956	2.09088e-05	0.999955
rad30	1.54421e-05	0.999971	1.55766e-05	0.999971
PAH9+H	1.45719e-05	0.999986	1.46988e-05	0.999986
rad38	4.88300e-06	0.999991	4.92552e-06	0.999991
rad37	4.23980e-06	0.999995	4.27673e-06	0.999995
rad35	3.83137e-06	0.999999	3.86474e-06	0.999999
rad19syn	5.75843e-07	1.000000	5.80858e-07	0.999999
rad46	4.35560e-07	1.000000	4.39353e-07	1.000000
rad54	1.01017e-07	1.000000	1.01897e-07	1.000000
rad60syn	8.96254e-08	1.000000	9.04058e-08	1.000000
PAH3+H	8.11822e-08	1.000000	8.18892e-08	1.000000
rad60anti	4.57655e-08	1.000000	4.61641e-08	1.000000
PAH10+CH3	2.25831e-08	1.000000	2.27797e-08	1.000000
PhcycC3H3_A+H	2.05528e-08	1.000000	2.07318e-08	1.000000
rad59	1.35486e-08	1.000000	1.36666e-08	1.000000
rad50	9.40269e-09	1.000000	9.48453e-09	1.000000
rad70	4.88193e-09	1.000000	4.92445e-09	1.000000
rad62	3.91161e-09	1.000000	3.94568e-09	1.000000
rad67	3.65819e-09	1.000000	3.69004e-09	1.000000
PAH1+H	3.25971e-09	1.000000	3.28810e-09	1.000000
rad43	2.57504e-09	1.000000	2.59746e-09	1.000000
rad55	2.29328e-09	1.000000	2.31325e-09	1.000000
rad34	2.96007e-10	1.000000	2.98585e-10	1.000000
rad52	1.70972e-10	1.000000	1.72462e-10	1.000000
rad51	1.34048e-10	1.000000	1.35215e-10	1.000000
rad2	2.90415e-11	1.000000	2.92943e-11	1.000000
rad6	2.00601e-11	1.000000	2.02348e-11	1.000000
rad58	1.71337e-11	1.000000	1.72829e-11	1.000000

rad42	1.22225e-11	1.00000	1.23290e-11	1.00000
rad53	1.06169e-11	1.00000	1.07093e-11	1.00000
rad1	4.63559e-12	1.00000	4.67597e-12	1.00000
rad64	4.60105e-12	1.00000	4.64111e-12	1.00000
rad65	4.04339e-12	1.00000	4.07860e-12	1.00000
rad23	4.04215e-12	1.00000	4.07734e-12	1.00000
rad41	2.76375e-12	1.00000	2.78781e-12	1.00000
rad56	1.10531e-12	1.00000	1.11493e-12	1.00000
rad45	1.04117e-12	1.00000	1.05024e-12	1.00000
rad10	8.69342e-13	1.00000	8.76913e-13	1.00000
rad3	8.08648e-13	1.00000	8.15691e-13	1.00000
rad4	5.18826e-13	1.00000	5.23345e-13	1.00000
rad68syn	1.32095e-13	1.00000	1.33246e-13	1.00000
rad36	9.86851e-14	1.00000	9.95442e-14	1.00000
rad68anti	9.18033e-14	1.00000	9.26031e-14	1.00000
rad61	2.45777e-14	1.00000	2.47917e-14	1.00000
rad28	2.30122e-14	1.00000	2.32126e-14	1.00000
PAH8+H	8.64388e-15	1.00000	8.71919e-15	1.00000
rad26	7.04480e-15	1.00000	7.10615e-15	1.00000
rad40syn	4.97721e-15	1.00000	5.02055e-15	1.00000
rad7	2.24837e-15	1.00000	2.26795e-15	1.00000
rad40anti	1.59909e-15	1.00000	1.61302e-15	1.00000
rad73	1.05573e-15	1.00000	1.06493e-15	1.00000
rad11	6.86311e-16	1.00000	6.92287e-16	1.00000
rad71	2.05406e-16	1.00000	2.07195e-16	1.00000
rad31	3.07519e-17	1.00000	3.10197e-17	1.00000
rad13	2.49898e-17	1.00000	2.52074e-17	1.00000
rad9	1.35172e-17	1.00000	1.36350e-17	1.00000
rad25	7.31849e-18	1.00000	7.38221e-18	1.00000
rad33	5.28971e-18	1.00000	5.33577e-18	1.00000
rad14	4.27961e-18	1.00000	4.31688e-18	1.00000
rad27	2.78238e-18	1.00000	2.80661e-18	1.00000
rad21	2.17654e-18	1.00000	2.19549e-18	1.00000
rad22	1.91101e-18	1.00000	1.92765e-18	1.00000
rad72	1.14542e-18	1.00000	1.15540e-18	1.00000
rad20	9.05084e-19	1.00000	9.12960e-19	1.00000
rad24	7.30669e-20	1.00000	7.37032e-20	1.00000
rad15	8.50580e-21	1.00000	8.57983e-21	1.00000
rad12	3.30957e-21	1.00000	3.33839e-21	1.00000
rad18	3.89380e-22	1.00000	3.92771e-22	1.00000
rad5	3.64796e-24	1.00000	3.67972e-24	1.00000
rad47	1.06838e-24	1.00000	1.07769e-24	1.00000
rad8	7.32793e-32	1.00000	7.39174e-32	1.00000

0.100000000E-05 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.39564e-13 (1.00)	1.36669e-13 (1.00)
Formation of rad11	5.88273e-14 (0.422)	5.72650e-14 (0.419)
Formation of rad6	5.01684e-14 (0.359)	4.88360e-14 (0.357)
H-abstraction	3.05678e-14 (0.219)	3.05678e-14 (0.224)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.510454	0.510454	0.521265	0.521265
Benzene+2-propynyl	0.219024	0.729478	0.223663	0.744928
C2H2+PhCH2	0.140690	0.870167	0.143670	0.888598
PhCCH+CH3	0.0586092	0.928777	0.0598506	0.948449
PhCHCCH2+H	0.0277623	0.956539	0.0283503	0.976799
Phenyl+Allene	0.0207415	0.977280	0.000000	0.976799
Ph+MeAc	0.00771340	0.984994	0.00787679	0.984676
PhCCCH3+H	0.00756061	0.992554	0.00772075	0.992396
PhCH2CCH+H	0.00451180	0.997066	0.00460736	0.997004
PAH7+H	0.00225727	0.999323	0.00230508	0.999309
rad39	0.000548289	0.999872	0.000559902	0.999869
rad19anti	4.66037e-05	0.999918	4.75908e-05	0.999916
PAH9+H	2.99985e-05	0.999948	3.06339e-05	0.999947
rad30	2.26762e-05	0.999971	2.31565e-05	0.999970
rad38	1.05314e-05	0.999982	1.07544e-05	0.999981
rad35	7.29844e-06	0.999989	7.45303e-06	0.999988
rad37	5.93522e-06	0.999995	6.06093e-06	0.999994
rad19syn	2.61380e-06	0.999997	2.66916e-06	0.999997
rad46	1.18432e-06	0.999999	1.20940e-06	0.999998
rad54	5.53865e-07	0.999999	5.65596e-07	0.999999
PAH3+H	2.96686e-07	0.999999	3.02969e-07	0.999999
rad60syn	2.09904e-07	1.000000	2.14349e-07	0.999999
PhcycC3H3_A+H	1.62838e-07	1.000000	1.66287e-07	1.000000
rad60anti	1.11059e-07	1.000000	1.13411e-07	1.000000
PAH10+CH3	8.88415e-08	1.000000	9.07227e-08	1.000000

rad50	4.89399e-08	1.00000	4.99765e-08	1.000000
rad59	4.64276e-08	1.00000	4.74110e-08	1.000000
rad70	3.43279e-08	1.00000	3.50550e-08	1.000000
PAH1+H	2.87927e-08	1.00000	2.94026e-08	1.000000
rad67	2.16413e-08	1.00000	2.20997e-08	1.000000
rad62	1.75396e-08	1.00000	1.79112e-08	1.000000
rad55	1.62462e-08	1.00000	1.65903e-08	1.000000
rad43	8.26632e-09	1.00000	8.44142e-09	1.000000
rad34	2.73084e-09	1.00000	2.78868e-09	1.000000
rad51	1.25005e-09	1.00000	1.27653e-09	1.000000
rad52	1.21857e-09	1.00000	1.24438e-09	1.000000
rad53	1.69563e-10	1.00000	1.73154e-10	1.000000
rad58	1.35852e-10	1.00000	1.38730e-10	1.000000
rad42	1.03499e-10	1.00000	1.05691e-10	1.000000
rad64	7.31424e-11	1.00000	7.46916e-11	1.000000
rad65	3.91354e-11	1.00000	3.99643e-11	1.000000
rad56	2.88481e-11	1.00000	2.94592e-11	1.000000
rad41	1.94814e-11	1.00000	1.98940e-11	1.000000
rad2	1.66906e-11	1.00000	1.70442e-11	1.000000
rad6	7.57345e-12	1.00000	7.73387e-12	1.000000
rad23	4.81350e-12	1.00000	4.91546e-12	1.000000
rad68syn	3.41597e-12	1.00000	3.48832e-12	1.000000
rad1	3.28945e-12	1.00000	3.35912e-12	1.000000
rad68anti	2.34479e-12	1.00000	2.39446e-12	1.000000
rad45	1.37911e-12	1.00000	1.40832e-12	1.000000
PAH8+H	4.75517e-13	1.00000	4.85588e-13	1.000000
rad61	4.69362e-13	1.00000	4.79303e-13	1.000000
rad3	4.38701e-13	1.00000	4.47993e-13	1.000000
rad10	3.99753e-13	1.00000	4.08220e-13	1.000000
rad4	3.06139e-13	1.00000	3.12623e-13	1.000000
rad40syn	2.01817e-13	1.00000	2.06092e-13	1.000000
rad36	1.42098e-13	1.00000	1.45107e-13	1.000000
rad40anti	7.19692e-14	1.00000	7.34935e-14	1.000000
rad73	5.05433e-14	1.00000	5.16139e-14	1.000000
rad71	1.30318e-14	1.00000	1.33079e-14	1.000000
rad28	5.88437e-15	1.00000	6.00901e-15	1.000000
rad26	2.00084e-15	1.00000	2.04322e-15	1.000000
rad7	9.94932e-16	1.00000	1.01601e-15	1.000000
rad9	9.20872e-16	1.00000	9.40377e-16	1.000000
rad11	4.60273e-16	1.00000	4.70022e-16	1.000000
rad13	6.38761e-17	1.00000	6.52290e-17	1.000000
rad21	3.99870e-17	1.00000	4.08339e-17	1.000000
rad33	3.81272e-17	1.00000	3.89348e-17	1.000000
rad72	3.24865e-17	1.00000	3.31746e-17	1.000000
rad31	1.78365e-17	1.00000	1.82143e-17	1.000000
rad20	1.48752e-17	1.00000	1.51903e-17	1.000000
rad25	8.89438e-18	1.00000	9.08275e-18	1.000000
rad24	3.96761e-18	1.00000	4.05165e-18	1.000000
rad14	3.92371e-18	1.00000	4.00682e-18	1.000000
rad27	3.70018e-18	1.00000	3.77855e-18	1.000000
rad22	2.29836e-18	1.00000	2.34704e-18	1.000000
rad12	4.79215e-19	1.00000	4.89366e-19	1.000000
rad15	3.87890e-19	1.00000	3.96106e-19	1.000000
rad18	2.14757e-21	1.00000	2.19306e-21	1.000000
rad47	9.03933e-24	1.00000	9.23080e-24	1.000000
rad5	3.23878e-24	1.00000	3.30737e-24	1.000000
rad8	9.25480e-28	1.00000	9.45081e-28	1.000000

0.100000000E-05 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.75392e-13 (1.00)	2.64229e-13 (1.00)
Formation of rad11	1.06471e-13 (0.387)	1.00706e-13 (0.381)
Formation of rad6	9.97133e-14 (0.362)	9.43145e-14 (0.357)
H-abstraction	6.92082e-14 (0.251)	6.92082e-14 (0.262)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.420963	0.420963	0.438748	0.438748
Benzene+2-propynyl	0.251308	0.672270	0.261925	0.700673
C2H2+PhCH2	0.158756	0.831027	0.165464	0.866137
PhCCH+CH3	0.0631452	0.894172	0.0658130	0.931950
Phenyl+Allene	0.0405363	0.934708	0.00000	0.931950
PhCHCCH2+H	0.0360793	0.970788	0.0376036	0.969553
PhCH2CCH+H	0.00999819	0.980786	0.0104207	0.979974
Ph+MeAc	0.00840385	0.989190	0.00875888	0.988733
PhCCCH3+H	0.00623443	0.995424	0.00649783	0.995231
PAH7+H	0.00351019	0.998934	0.00365850	0.998889
rad39	0.000836596	0.999771	0.000871939	0.999761

rad19anti	9.01935e-05	0.999861	9.40042e-05	0.999855
PAH9+H	5.38600e-05	0.999915	5.61355e-05	0.999911
rad30	2.94556e-05	0.999944	3.07000e-05	0.999942
rad38	1.96291e-05	0.999964	2.04585e-05	0.999962
rad35	1.22732e-05	0.999976	1.27916e-05	0.999975
rad19syn	8.33347e-06	0.999985	8.68552e-06	0.999984
rad37	7.26188e-06	0.999992	7.56866e-06	0.999992
rad46	2.65265e-06	0.999995	2.76472e-06	0.999994
rad54	2.03471e-06	0.999997	2.12067e-06	0.999996
PAH3+H	7.96489e-07	0.999997	8.30142e-07	0.999997
PhcycC3H3_A+H	7.94325e-07	0.999998	8.27884e-07	0.999998
rad60syn	3.96788e-07	0.999999	4.13552e-07	0.999998
PAH10+CH3	2.53197e-07	0.999999	2.63894e-07	0.999999
rad60anti	2.15811e-07	0.999999	2.24928e-07	0.999999
rad50	1.82305e-07	0.999999	1.90008e-07	0.999999
rad70	1.50040e-07	0.999999	1.56379e-07	0.999999
PAH1+H	1.48682e-07	0.999999	1.54963e-07	0.999999
rad59	1.17661e-07	1.000000	1.22632e-07	1.000000
rad67	9.03380e-08	1.000000	9.41547e-08	1.000000
rad55	7.18814e-08	1.000000	7.49183e-08	1.000000
rad62	5.32905e-08	1.000000	5.55419e-08	1.000000
rad43	1.85215e-08	1.000000	1.93041e-08	1.000000
rad34	1.46559e-08	1.000000	1.52750e-08	1.000000
rad51	7.22372e-09	1.000000	7.52888e-09	1.000000
rad52	5.73951e-09	1.000000	5.98200e-09	1.000000
rad53	1.38657e-09	1.000000	1.44515e-09	1.000000
rad58	6.48417e-10	1.000000	6.75812e-10	1.000000
rad64	5.75074e-10	1.000000	5.99371e-10	1.000000
rad42	5.07610e-10	1.000000	5.29056e-10	1.000000
rad56	3.39878e-10	1.000000	3.54238e-10	1.000000
rad65	2.29600e-10	1.000000	2.39300e-10	1.000000
rad41	7.94168e-11	1.000000	8.27721e-11	1.000000
rad68syn	3.95119e-11	1.000000	4.11813e-11	1.000000
rad68anti	2.68637e-11	1.000000	2.79986e-11	1.000000
PAH8+H	9.75576e-12	1.000000	1.01679e-11	1.000000
rad2	5.44429e-12	1.000000	5.67430e-12	1.000000
rad61	4.46185e-12	1.000000	4.65035e-12	1.000000
rad40syn	3.27955e-12	1.000000	3.41811e-12	1.000000
rad23	2.72797e-12	1.000000	2.84322e-12	1.000000
rad6	1.86785e-12	1.000000	1.94676e-12	1.000000
rad40anti	1.27571e-12	1.000000	1.32960e-12	1.000000
rad1	1.06954e-12	1.000000	1.11472e-12	1.000000
rad45	9.97685e-13	1.000000	1.03984e-12	1.000000
rad73	9.83767e-13	1.000000	1.02533e-12	1.000000
rad71	3.29921e-13	1.000000	3.43859e-13	1.000000
rad3	1.43458e-13	1.000000	1.49518e-13	1.000000
rad10	1.13422e-13	1.000000	1.18213e-13	1.000000
rad4	1.02109e-13	1.000000	1.06423e-13	1.000000
rad36	9.55526e-14	1.000000	9.95899e-14	1.000000
rad9	2.10724e-14	1.000000	2.19627e-14	1.000000
rad28	1.95791e-15	1.000000	2.04062e-15	1.000000
rad11	7.21861e-16	1.000000	7.52357e-16	1.000000
rad26	6.73231e-16	1.000000	7.01674e-16	1.000000
rad21	5.89266e-16	1.000000	6.14162e-16	1.000000
rad13	5.70170e-16	1.000000	5.94259e-16	1.000000
rad72	3.87704e-16	1.000000	4.04085e-16	1.000000
rad7	3.68021e-16	1.000000	3.83569e-16	1.000000
rad33	2.86179e-16	1.000000	2.98269e-16	1.000000
rad20	2.26270e-16	1.000000	2.35829e-16	1.000000
rad24	5.58298e-17	1.000000	5.81886e-17	1.000000
rad25	1.92046e-17	1.000000	2.00159e-17	1.000000
rad12	1.15817e-17	1.000000	1.20711e-17	1.000000
rad31	8.40534e-18	1.000000	8.76043e-18	1.000000
rad27	7.06140e-18	1.000000	7.35973e-18	1.000000
rad14	5.74905e-18	1.000000	5.99194e-18	1.000000
rad15	5.20337e-18	1.000000	5.42321e-18	1.000000
rad22	1.44209e-18	1.000000	1.50302e-18	1.000000
rad18	2.25538e-20	1.000000	2.35067e-20	1.000000
rad47	5.02502e-23	1.000000	5.23732e-23	1.000000
rad5	3.81908e-24	1.000000	3.98043e-24	1.000000
rad8	3.33307e-24	1.000000	3.47390e-24	1.000000

0.100000000E-05 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.88072e-13 (1.00)	4.55158e-13 (1.00)
Formation of rad11	1.74945e-13 (0.358)	1.58562e-13 (0.348)
Formation of rad6	1.76509e-13 (0.362)	1.59978e-13 (0.351)
H-abstraction	1.36618e-13 (0.280)	1.36618e-13 (0.300)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.341014	0.341014	0.365674	0.365674
Benzene+2-propynyl	0.279914	0.620928	0.300155	0.665829
C2H2+PhCH2	0.164625	0.785553	0.176529	0.842358
Phenyl+Allene	0.0674364	0.852989	0.000000	0.842358
PhCCH+CH3	0.0639259	0.916915	0.0685486	0.910906
PhCHCCH2+H	0.0451268	0.962042	0.0483901	0.959297
PhCH2CCH+H	0.0182967	0.980338	0.0196198	0.978916
Ph+MeAc	0.00849313	0.988832	0.00910729	0.988024
PhCCCH3+H	0.00485364	0.993685	0.00520463	0.993228
PAH7+H	0.00482415	0.998509	0.00517299	0.998401
rad39	0.00111872	0.999628	0.00119961	0.999601
rad19anti	0.000152570	0.999781	0.000163603	0.999764
PAH9+H	8.58055e-05	0.999866	9.20100e-05	0.999856
rad30	3.45816e-05	0.999901	3.70824e-05	0.999894
rad38	3.22626e-05	0.999933	3.45956e-05	0.999928
rad19syn	2.05726e-05	0.999954	2.20602e-05	0.999950
rad35	1.85019e-05	0.999972	1.98398e-05	0.999970
rad37	8.30353e-06	0.999981	8.90399e-06	0.999979
rad54	5.61022e-06	0.999986	6.01591e-06	0.999985
rad46	5.06238e-06	0.999991	5.42846e-06	0.999990
PhcycC3H3_A+H	2.75303e-06	0.999994	2.95211e-06	0.999993
PAH3+H	1.70031e-06	0.999996	1.82327e-06	0.999995
rad60syn	6.35566e-07	0.999996	6.81526e-07	0.999996
PAH10+CH3	5.91896e-07	0.999997	6.34698e-07	0.999996
PAH1+H	5.27743e-07	0.999998	5.65906e-07	0.999997
rad50	5.26056e-07	0.999998	5.64097e-07	0.999998
rad70	4.68169e-07	0.999999	5.02024e-07	0.999998
rad60anti	3.53464e-07	0.999999	3.79023e-07	0.999999
rad67	2.86638e-07	0.999999	3.07366e-07	0.999999
rad59	2.38374e-07	0.999999	2.55613e-07	0.999999
rad55	2.28529e-07	1.000000	2.45055e-07	0.999999
rad62	1.23575e-07	1.000000	1.32511e-07	0.999999
rad34	5.38118e-08	1.000000	5.77031e-08	0.999999
rad43	3.25336e-08	1.000000	3.48862e-08	1.000000
rad51	2.94628e-08	1.000000	3.15934e-08	1.000000
rad52	1.98861e-08	1.000000	2.13241e-08	1.000000
rad53	7.16536e-09	1.000000	7.68353e-09	1.000000
rad64	2.79837e-09	1.000000	3.00073e-09	1.000000
rad56	2.33179e-09	1.000000	2.50041e-09	1.000000
rad58	2.16896e-09	1.000000	2.32580e-09	1.000000
rad42	1.71810e-09	1.000000	1.84235e-09	1.000000
rad65	9.39252e-10	1.000000	1.00717e-09	1.000000
rad68syn	2.64056e-10	1.000000	2.83151e-10	1.000000
rad41	2.24666e-10	1.000000	2.40913e-10	1.000000
rad68anti	1.78166e-10	1.000000	1.91050e-10	1.000000
PAH8+H	1.02532e-10	1.000000	1.09946e-10	1.000000
rad40syn	2.86480e-11	1.000000	3.07196e-11	1.000000
rad61	2.66398e-11	1.000000	2.85663e-11	1.000000
rad40anti	1.19773e-11	1.000000	1.28434e-11	1.000000
rad73	1.03658e-11	1.000000	1.11154e-11	1.000000
rad71	4.43983e-12	1.000000	4.76088e-12	1.000000
rad2	1.31761e-12	1.000000	1.41289e-12	1.000000
rad23	1.26332e-12	1.000000	1.35467e-12	1.000000
rad45	5.55510e-13	1.000000	5.95681e-13	1.000000
rad6	4.26029e-13	1.000000	4.56836e-13	1.000000
rad1	2.66837e-13	1.000000	2.86134e-13	1.000000
rad9	9.95411e-14	1.000000	1.06739e-13	1.000000
rad36	5.30000e-14	1.000000	5.68327e-14	1.000000
rad3	4.20525e-14	1.000000	4.50934e-14	1.000000
rad4	3.11899e-14	1.000000	3.34454e-14	1.000000
rad10	2.54340e-14	1.000000	2.72732e-14	1.000000
rad72	8.54188e-15	1.000000	9.15957e-15	1.000000
rad13	4.90843e-15	1.000000	5.26337e-15	1.000000
rad21	3.80390e-15	1.000000	4.07897e-15	1.000000
rad11	2.98422e-15	1.000000	3.20002e-15	1.000000
rad20	1.64992e-15	1.000000	1.76923e-15	1.000000
rad33	1.26647e-15	1.000000	1.35806e-15	1.000000
rad28	8.21489e-16	1.000000	8.80895e-16	1.000000
rad7	4.56875e-16	1.000000	4.89913e-16	1.000000
rad26	2.81621e-16	1.000000	3.01986e-16	1.000000
rad24	1.88184e-16	1.000000	2.01792e-16	1.000000
rad25	5.51827e-17	1.000000	5.91732e-17	1.000000
rad12	5.35711e-17	1.000000	5.74449e-17	1.000000
rad15	1.75402e-17	1.000000	1.88085e-17	1.000000
rad27	1.32695e-17	1.000000	1.42290e-17	1.000000
rad14	1.05205e-17	1.000000	1.12813e-17	1.000000
rad31	4.19944e-18	1.000000	4.50311e-18	1.000000

rad22	7.46650e-19	1.000000	8.00644e-19	1.000000
rad18	3.26840e-19	1.000000	3.50475e-19	1.000000
rad8	1.12161e-21	1.000000	1.20272e-21	1.000000
rad47	2.05589e-22	1.000000	2.20455e-22	1.000000
rad5	5.97731e-24	1.000000	6.40954e-24	1.000000

0.100000000E-05 Pa, 1000.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	7.98668e-13	(1.00)	7.19594e-13	(1.00)
Formation of rad11	2.67704e-13	(0.335)	2.29546e-13	(0.319)
Formation of rad6	2.87049e-13	(0.359)	2.46133e-13	(0.342)
H-abstraction	2.43915e-13	(0.305)	2.43915e-13	(0.339)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.305402	0.305402	0.338962	0.338962
Indene+H	0.272124	0.577526	0.302027	0.640989
C2H2+PhCH2	0.159453	0.736979	0.176975	0.817964
Phenyl+Allene	0.0990073	0.835987	0.000000	0.817964
PhCCH+CH3	0.0616205	0.897607	0.0683917	0.886356
PhCHCCH2+H	0.0537596	0.951367	0.0596670	0.946023
PhCH2CCH+H	0.0288969	0.980264	0.0320723	0.978095
Ph+MeAc	0.00817632	0.988440	0.00907480	0.987170
PAH7+H	0.00601184	0.994452	0.00667246	0.993842
PhCCCH3+H	0.00364277	0.998095	0.00404307	0.997885
rad39	0.00134896	0.999444	0.00149719	0.999382
rad19anti	0.000230025	0.999674	0.000255302	0.999638
PAH9+H	0.000123695	0.999797	0.000137287	0.999775
rad38	4.77792e-05	0.999845	5.30296e-05	0.999828
rad19syn	4.20371e-05	0.999887	4.66565e-05	0.999875
rad30	3.74826e-05	0.999925	4.16015e-05	0.999916
rad35	2.54628e-05	0.999950	2.82608e-05	0.999945
rad54	1.25292e-05	0.999963	1.39061e-05	0.999959
rad37	9.28205e-06	0.999972	1.03021e-05	0.999969
rad46	8.48861e-06	0.999980	9.42145e-06	0.999978
PhcycC3H3_A+H	7.44283e-06	0.999988	8.26073e-06	0.999987
PAH3+H	3.05843e-06	0.999991	3.39451e-06	0.999990
PAH1+H	1.42911e-06	0.999992	1.58616e-06	0.999991
rad50	1.24669e-06	0.999994	1.38369e-06	0.999993
PAH10+CH3	1.21323e-06	0.999995	1.34654e-06	0.999994
rad70	1.14131e-06	0.999996	1.26673e-06	0.999995
rad60syn	8.97094e-07	0.999997	9.95669e-07	0.999996
rad67	7.32850e-07	0.999998	8.13375e-07	0.999997
rad55	5.71763e-07	0.999998	6.34592e-07	0.999998
rad60anti	5.08253e-07	0.999999	5.64103e-07	0.999999
rad59	4.08645e-07	0.999999	4.53550e-07	0.999999
rad62	2.36337e-07	0.999999	2.62307e-07	0.999999
rad34	1.49947e-07	0.999999	1.66424e-07	0.999999
rad51	9.25830e-08	0.999999	1.02757e-07	0.999999
rad52	5.46150e-08	1.000000	6.06164e-08	1.000000
rad43	4.82842e-08	1.000000	5.35901e-08	1.000000
rad53	2.66802e-08	1.000000	2.96121e-08	1.000000
rad56	1.08965e-08	1.000000	1.20939e-08	1.000000
rad64	9.68714e-09	1.000000	1.07517e-08	1.000000
rad58	5.61421e-09	1.000000	6.23115e-09	1.000000
rad42	4.47913e-09	1.000000	4.97133e-09	1.000000
rad65	2.93939e-09	1.000000	3.26240e-09	1.000000
rad68syn	1.19347e-09	1.000000	1.32462e-09	1.000000
rad68anti	8.00253e-10	1.000000	8.88191e-10	1.000000
PAH8+H	6.70053e-10	1.000000	7.43681e-10	1.000000
rad41	4.94029e-10	1.000000	5.48317e-10	1.000000
rad40syn	1.60977e-10	1.000000	1.78667e-10	1.000000
rad61	1.14008e-10	1.000000	1.26536e-10	1.000000
rad40anti	7.14860e-11	1.000000	7.93411e-11	1.000000
rad73	6.98981e-11	1.000000	7.75795e-11	1.000000
rad71	3.67504e-11	1.000000	4.07888e-11	1.000000
rad23	6.08765e-13	1.000000	6.75661e-13	1.000000
rad2	3.21422e-13	1.000000	3.56742e-13	1.000000
rad45	3.00707e-13	1.000000	3.33750e-13	1.000000
rad6	1.93210e-13	1.000000	2.14442e-13	1.000000
rad9	1.45074e-13	1.000000	1.61016e-13	1.000000
rad72	1.23138e-13	1.000000	1.36670e-13	1.000000
rad1	7.08302e-14	1.000000	7.86140e-14	1.000000
rad36	2.87845e-14	1.000000	3.19475e-14	1.000000
rad13	2.41239e-14	1.000000	2.67748e-14	1.000000
rad11	1.49921e-14	1.000000	1.66395e-14	1.000000
rad3	1.39433e-14	1.000000	1.54755e-14	1.000000
rad4	1.07060e-14	1.000000	1.18826e-14	1.000000

rad21	9.56156e-15	1.000000	1.06122e-14	1.000000
rad10	6.72908e-15	1.000000	7.46854e-15	1.000000
rad20	4.65001e-15	1.000000	5.16098e-15	1.000000
rad33	2.70073e-15	1.000000	2.99751e-15	1.000000
rad7	2.27752e-15	1.000000	2.52779e-15	1.000000
rad28	4.80689e-16	1.000000	5.33510e-16	1.000000
rad24	2.48801e-16	1.000000	2.76141e-16	1.000000
rad26	1.66342e-16	1.000000	1.84620e-16	1.000000
rad25	1.49317e-16	1.000000	1.65725e-16	1.000000
rad12	9.30067e-17	1.000000	1.03226e-16	1.000000
rad15	2.20054e-17	1.000000	2.44235e-17	1.000000
rad14	1.89394e-17	1.000000	2.10206e-17	1.000000
rad27	1.85943e-17	1.000000	2.06376e-17	1.000000
rad18	4.54226e-18	1.000000	5.04140e-18	1.000000
rad31	2.32683e-18	1.000000	2.58252e-18	1.000000
rad22	4.22707e-19	1.000000	4.69157e-19	1.000000
rad8	3.75825e-20	1.000000	4.17124e-20	1.000000
rad47	6.62542e-22	1.000000	7.35346e-22	1.000000
rad5	1.35520e-23	1.000000	1.50411e-23	1.000000

0.100000000E-05 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22919e-12 (1.00)	1.06688e-12 (1.00)
Formation of rad11	3.87976e-13 (0.316)	3.11712e-13 (0.292)
Formation of rad6	4.37724e-13 (0.356)	3.51681e-13 (0.330)
H-abstraction	4.03491e-13 (0.328)	4.03491e-13 (0.378)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.328257	0.328257	0.378196	0.378196
Indene+H	0.214714	0.542971	0.247379	0.625574
C2H2+PhCH2	0.146502	0.689473	0.168789	0.794364
Phenyl+Allene	0.132044	0.821517	0.000000	0.794364
PhCHCCH2+H	0.0609574	0.882474	0.0702309	0.864595
PhCCH+CH3	0.0572446	0.939719	0.0659535	0.930548
PhCH2CCH+H	0.0407440	0.980463	0.0469425	0.977491
Ph+MeAc	0.00763489	0.988098	0.00879642	0.986287
PAH7+H	0.00694716	0.995045	0.00800405	0.994291
PhCCCH3+H	0.00267733	0.997722	0.00308464	0.997376
rad39	0.00150224	0.999224	0.00173078	0.999107
rad19anti	0.000315220	0.999539	0.000363175	0.999470
PAH9+H	0.000164386	0.999704	0.000189394	0.999659
rad19syn	7.45655e-05	0.999778	8.59091e-05	0.999745
rad38	6.50359e-05	0.999843	7.49299e-05	0.999820
rad30	3.82332e-05	0.999882	4.40497e-05	0.999864
rad35	3.25605e-05	0.999914	3.75140e-05	0.999902
rad54	2.39077e-05	0.999938	2.75448e-05	0.999929
PhcycC3H3_A+H	1.67306e-05	0.999955	1.92759e-05	0.999948
rad46	1.28371e-05	0.999968	1.47901e-05	0.999963
rad37	1.03715e-05	0.999978	1.19494e-05	0.999975
PAH3+H	4.83975e-06	0.999983	5.57602e-06	0.999981
PAH1+H	3.16887e-06	0.999986	3.65096e-06	0.999984
rad50	2.53500e-06	0.999989	2.92065e-06	0.999987
rad70	2.31279e-06	0.999991	2.66464e-06	0.999990
PAH10+CH3	2.25114e-06	0.999993	2.59361e-06	0.999993
rad67	1.57911e-06	0.999995	1.81935e-06	0.999994
rad55	1.19782e-06	0.999996	1.38006e-06	0.999996
rad60syn	1.15117e-06	0.999997	1.32630e-06	0.999997
rad60anti	6.62627e-07	0.999998	7.63433e-07	0.999998
rad59	6.18406e-07	0.999998	7.12482e-07	0.999999
rad62	3.93252e-07	0.999999	4.53078e-07	0.999999
rad34	3.40145e-07	0.999999	3.91892e-07	0.999999
rad51	2.38369e-07	0.999999	2.74633e-07	1.000000
rad52	1.25451e-07	1.000000	1.44535e-07	1.000000
rad53	7.80404e-08	1.000000	8.99129e-08	1.000000
rad43	6.37336e-08	1.000000	7.34295e-08	1.000000
rad56	3.84098e-08	1.000000	4.42533e-08	1.000000
rad64	2.61428e-08	1.000000	3.01199e-08	1.000000
rad58	1.20347e-08	1.000000	1.38656e-08	1.000000
rad42	9.67464e-09	1.000000	1.11465e-08	1.000000
rad65	7.50471e-09	1.000000	8.64638e-09	1.000000
rad68syn	4.04354e-09	1.000000	4.65870e-09	1.000000
PAH8+H	3.08736e-09	1.000000	3.55705e-09	1.000000
rad68anti	2.69715e-09	1.000000	3.10748e-09	1.000000
rad41	9.10252e-10	1.000000	1.04874e-09	1.000000
rad40syn	6.53835e-10	1.000000	7.53304e-10	1.000000
rad61	3.79380e-10	1.000000	4.37096e-10	1.000000
rad73	3.37895e-10	1.000000	3.89300e-10	1.000000

rad40anti	3.05537e-10	1.000000	3.52019e-10	1.00000
rad71	2.11151e-10	1.000000	2.43273e-10	1.00000
rad72	1.11748e-12	1.000000	1.28748e-12	1.00000
rad23	3.04473e-13	1.000000	3.50793e-13	1.00000
rad6	1.85047e-13	1.000000	2.13199e-13	1.00000
rad45	1.62568e-13	1.000000	1.87300e-13	1.00000
rad9	1.26299e-13	1.000000	1.45513e-13	1.00000
rad2	8.71002e-14	1.000000	1.00351e-13	1.00000
rad11	6.03269e-14	1.000000	6.95047e-14	1.00000
rad13	5.55343e-14	1.000000	6.39830e-14	1.00000
rad1	2.03556e-14	1.000000	2.34523e-14	1.00000
rad36	1.56360e-14	1.000000	1.80147e-14	1.00000
rad7	1.24448e-14	1.000000	1.43381e-14	1.00000
rad21	1.12703e-14	1.000000	1.29848e-14	1.00000
rad20	5.72530e-15	1.000000	6.59629e-15	1.00000
rad3	5.16160e-15	1.000000	5.94684e-15	1.00000
rad4	4.04143e-15	1.000000	4.65627e-15	1.00000
rad10	3.03521e-15	1.000000	3.49696e-15	1.00000
rad33	2.98576e-15	1.000000	3.43998e-15	1.00000
rad28	4.00307e-16	1.000000	4.61207e-16	1.00000
rad25	2.72797e-16	1.000000	3.14298e-16	1.00000
rad24	2.16988e-16	1.000000	2.49998e-16	1.00000
rad26	1.33842e-16	1.000000	1.54204e-16	1.00000
rad12	1.06574e-16	1.000000	1.22787e-16	1.00000
rad18	3.95812e-17	1.000000	4.56027e-17	1.00000
rad14	2.59084e-17	1.000000	2.98500e-17	1.00000
rad15	1.82879e-17	1.000000	2.10700e-17	1.00000
rad27	1.66794e-17	1.000000	1.92169e-17	1.00000
rad31	1.37107e-18	1.000000	1.57966e-18	1.00000
rad22	2.72575e-19	1.000000	3.14042e-19	1.00000
rad8	2.31129e-19	1.000000	2.66290e-19	1.00000
rad47	1.74352e-21	1.000000	2.00877e-21	1.00000
rad5	4.33928e-23	1.000000	4.99943e-23	1.00000

0.100000000E-05 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.50733e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.03336e-13 (0.268)
Formation of rad6	6.34764e-13 (0.352)	4.75183e-13 (0.315)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.417)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.417171	0.417171
Indene+H	0.168224	0.517107	0.201151	0.618322
Phenyl+Allene	0.163693	0.680800	0.000000	0.618322
C2H2+PhCH2	0.129445	0.810245	0.154782	0.773104
PhCHCCH2+H	0.0661470	0.876392	0.0790946	0.852199
PhCH2CCH+H	0.0526489	0.929041	0.0629537	0.915152
PhCCH+CH3	0.0518208	0.980862	0.0619641	0.977116
PAH7+H	0.00758545	0.988447	0.00907010	0.986186
Ph+MeAc	0.00700420	0.995451	0.00837514	0.994562
PhCCCH3+H	0.00195097	0.997402	0.00233284	0.996894
rad39	0.00157581	0.998978	0.00188425	0.998779
rad19anti	0.000399579	0.999378	0.000477791	0.999257
PAH9+H	0.000204702	0.999582	0.000244769	0.999501
rad19syn	0.000118863	0.999701	0.000142129	0.999643
rad38	8.27680e-05	0.999784	9.89685e-05	0.999742
rad54	4.05005e-05	0.999824	4.84277e-05	0.999791
rad35	3.92969e-05	0.999864	4.69886e-05	0.999838
rad30	3.73116e-05	0.999901	4.46148e-05	0.999882
PhcycC3H3_A+H	3.27086e-05	0.999934	3.91108e-05	0.999922
rad46	1.78869e-05	0.999952	2.13880e-05	0.999943
rad37	1.16239e-05	0.999963	1.38991e-05	0.999957
PAH3+H	6.95966e-06	0.999970	8.32193e-06	0.999965
PAH1+H	6.04571e-06	0.999976	7.22906e-06	0.999972
rad50	4.57121e-06	0.999981	5.46594e-06	0.999978
rad70	4.07150e-06	0.999985	4.86843e-06	0.999983
PAH10+CH3	3.83957e-06	0.999989	4.59109e-06	0.999987
rad67	2.96796e-06	0.999992	3.54889e-06	0.999991
rad55	2.19501e-06	0.999994	2.62464e-06	0.999993
rad60syn	1.37645e-06	0.999995	1.64587e-06	0.999995
rad59	8.52866e-07	0.999996	1.01981e-06	0.999996
rad60anti	8.03342e-07	0.999997	9.60578e-07	0.999997
rad34	6.59901e-07	0.999998	7.89063e-07	0.999998
rad62	5.91358e-07	0.999998	7.07106e-07	0.999999
rad51	5.25705e-07	0.999999	6.28605e-07	0.999999
rad52	2.50703e-07	0.999999	2.99775e-07	0.999999

rad53	1.90238e-07	0.999999	2.27474e-07	1.000000
rad56	1.09448e-07	0.999999	1.30871e-07	1.000000
rad43	7.76164e-08	0.999999	9.28086e-08	1.000000
rad64	5.85550e-08	0.999999	7.00159e-08	1.000000
rad58	2.24147e-08	0.999999	2.68020e-08	1.000000
rad42	1.82035e-08	0.999999	2.17665e-08	1.000000
rad65	1.63703e-08	0.999999	1.95744e-08	1.000000
rad68syn	1.10175e-08	0.999999	1.31740e-08	1.000000
PAH8+H	1.09227e-08	0.999999	1.30606e-08	1.000000
rad68anti	7.31621e-09	0.999999	8.74827e-09	1.000000
rad40syn	2.07794e-09	0.999999	2.48466e-09	1.000000
rad41	1.48024e-09	0.999999	1.76997e-09	1.000000
rad73	1.26651e-09	0.999999	1.51441e-09	1.000000
rad61	1.03672e-09	0.999999	1.23964e-09	1.000000
rad40anti	1.01429e-09	0.999999	1.21282e-09	1.000000
rad71	9.17535e-10	0.999999	1.09712e-09	1.000000
rad72	7.08923e-12	0.999999	8.47678e-12	1.000000
rad6	2.29683e-13	0.999999	2.74640e-13	1.000000
rad23	1.56601e-13	0.999999	1.87254e-13	1.000000
rad11	1.50145e-13	0.999999	1.79534e-13	1.000000
rad9	9.32588e-14	0.999999	1.11513e-13	1.000000
rad45	8.83983e-14	0.999999	1.05701e-13	1.000000
rad13	6.46654e-14	0.999999	7.73222e-14	1.000000
rad7	4.83836e-14	0.999999	5.78538e-14	1.000000
rad2	2.57672e-14	0.999999	3.08107e-14	1.000000
rad21	8.79041e-15	0.999999	1.05110e-14	1.000000
rad36	8.56160e-15	0.999999	1.02374e-14	1.000000
rad1	6.23512e-15	0.999999	7.45555e-15	1.000000
rad20	4.28302e-15	0.999999	5.12134e-15	1.000000
rad10	2.67179e-15	0.999999	3.19475e-15	1.000000
rad33	2.25859e-15	0.999999	2.70068e-15	1.000000
rad3	2.06519e-15	0.999999	2.46941e-15	1.000000
rad4	1.63589e-15	0.999999	1.95609e-15	1.000000
rad28	4.68392e-16	0.999999	5.60071e-16	1.000000
rad25	3.12053e-16	0.999999	3.73132e-16	1.000000
rad24	1.65803e-16	0.999999	1.98256e-16	1.000000
rad18	1.63210e-16	0.999999	1.95156e-16	1.000000
rad26	1.35419e-16	0.999999	1.61926e-16	1.000000
rad12	1.03518e-16	0.999999	1.23781e-16	1.000000
rad14	2.44012e-17	0.999999	2.91773e-17	1.000000
rad15	1.91893e-17	0.999999	2.29453e-17	1.000000
rad27	1.00941e-17	0.999999	1.20699e-17	1.000000
rad31	8.42038e-19	0.999999	1.00685e-18	1.000000
rad8	5.36818e-19	0.999999	6.41893e-19	1.000000
rad22	3.98603e-19	0.999999	4.76623e-19	1.000000
rad47	3.89980e-21	0.999999	4.66312e-21	1.000000
rad5	1.77111e-22	0.999999	2.11777e-22	1.000000

0.100000000E-05 Pa, 1300.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.54148e-12	(1.00)	2.05338e-12	(1.00)
Formation of rad11	7.22991e-13	(0.284)	5.03422e-13	(0.245)
Formation of rad6	8.84215e-13	(0.348)	6.15682e-13	(0.300)
H-abstraction	9.34273e-13	(0.368)	9.34273e-13	(0.455)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.367610	0.367610	0.454993	0.454993
Phenyl+Allene	0.192054	0.559664	0.000000	0.454993
Indene+H	0.131421	0.691086	0.162661	0.617654
C2H2+PhCH2	0.111295	0.802381	0.137750	0.755405
PhCHCCH2+H	0.0692296	0.871610	0.0856859	0.841091
PhCH2CCH+H	0.0636260	0.935236	0.0787507	0.919842
PhCCH+CH3	0.0461559	0.981392	0.0571276	0.976969
PAH7+H	0.00794566	0.989338	0.00983443	0.986804
Ph+MeAc	0.00637082	0.995709	0.00788521	0.994689
rad39	0.00158196	0.997291	0.00195800	0.996647
PhCCCH3+H	0.00142376	0.998714	0.00176219	0.998409
rad19anti	0.000475489	0.999190	0.000588514	0.998997
PAH9+H	0.000242131	0.999432	0.000299688	0.999297
rad19syn	0.000174660	0.999607	0.000216178	0.999513
rad38	9.98860e-05	0.999707	0.000123629	0.999637
rad54	6.26274e-05	0.999769	7.75141e-05	0.999714
PhcycC3H3_A+H	5.74351e-05	0.999827	7.10879e-05	0.999786
rad35	4.53516e-05	0.999872	5.61319e-05	0.999842
rad30	3.53185e-05	0.999907	4.37139e-05	0.999885
rad46	2.33611e-05	0.999931	2.89142e-05	0.999914
rad37	1.29873e-05	0.999944	1.60744e-05	0.999930

PAH1+H	1.02825e-05	0.999954	1.27267e-05	0.999943
PAH3+H	9.32004e-06	0.999963	1.15354e-05	0.999955
rad50	7.49585e-06	0.999971	9.27759e-06	0.999964
rad70	6.43021e-06	0.999977	7.95868e-06	0.999972
PAH10+CH3	6.07786e-06	0.999983	7.52262e-06	0.999979
rad67	4.99567e-06	0.999988	6.18315e-06	0.999986
rad55	3.63003e-06	0.999992	4.49291e-06	0.999990
rad60syn	1.56340e-06	0.999993	1.93503e-06	0.999992
rad34	1.13462e-06	0.999995	1.40432e-06	0.999993
rad59	1.09806e-06	0.999996	1.35907e-06	0.999995
rad51	1.02620e-06	0.999997	1.27014e-06	0.999996
rad60anti	9.23688e-07	0.999998	1.14325e-06	0.999997
rad62	8.25901e-07	0.999998	1.02222e-06	0.999998
rad52	4.48900e-07	0.999999	5.55607e-07	0.999999
rad53	4.02868e-07	0.999999	4.98632e-07	0.999999
rad56	2.64598e-07	1.000000	3.27496e-07	1.000000
rad64	1.13755e-07	1.000000	1.40795e-07	1.000000
rad43	8.95932e-08	1.000000	1.10890e-07	1.000000
rad58	3.75497e-08	1.000000	4.64755e-08	1.000000
rad65	3.15601e-08	1.000000	3.90621e-08	1.000000
PAH8+H	3.15023e-08	1.000000	3.89905e-08	1.000000
rad42	3.09037e-08	1.000000	3.82497e-08	1.000000
rad68syn	2.53721e-08	1.000000	3.14033e-08	1.000000
rad68anti	1.67834e-08	1.000000	2.07729e-08	1.000000
rad40syn	5.46373e-09	1.000000	6.76250e-09	1.000000
rad73	3.88972e-09	1.000000	4.81434e-09	1.000000
rad71	3.20241e-09	1.000000	3.96364e-09	1.000000
rad40anti	2.76933e-09	1.000000	3.42762e-09	1.000000
rad61	2.41929e-09	1.000000	2.99437e-09	1.000000
rad41	2.20456e-09	1.000000	2.72860e-09	1.000000
rad72	3.39622e-11	1.000000	4.20352e-11	1.000000
rad6	3.24379e-13	1.000000	4.01487e-13	1.000000
rad11	2.12964e-13	1.000000	2.63586e-13	1.000000
rad7	1.09787e-13	1.000000	1.35884e-13	1.000000
rad23	8.27495e-14	1.000000	1.02420e-13	1.000000
rad9	6.40371e-14	1.000000	7.92592e-14	1.000000
rad13	4.91949e-14	1.000000	6.08887e-14	1.000000
rad45	4.85974e-14	1.000000	6.01491e-14	1.000000
rad2	8.15669e-15	1.000000	1.00956e-14	1.000000
rad21	5.91330e-15	1.000000	7.31895e-15	1.000000
rad36	4.74702e-15	1.000000	5.87544e-15	1.000000
rad20	2.63323e-15	1.000000	3.25917e-15	1.000000
rad10	2.45329e-15	1.000000	3.03646e-15	1.000000
rad1	2.02087e-15	1.000000	2.50124e-15	1.000000
rad33	1.50408e-15	1.000000	1.86161e-15	1.000000
rad3	8.78061e-16	1.000000	1.08678e-15	1.000000
rad28	7.27021e-16	1.000000	8.99833e-16	1.000000
rad4	7.01257e-16	1.000000	8.67945e-16	1.000000
rad18	3.07354e-16	1.000000	3.80414e-16	1.000000
rad25	2.61840e-16	1.000000	3.24081e-16	1.000000
rad26	1.55020e-16	1.000000	1.91869e-16	1.000000
rad24	1.21061e-16	1.000000	1.49838e-16	1.000000
rad12	9.25054e-17	1.000000	1.14494e-16	1.000000
rad15	6.16589e-17	1.000000	7.63156e-17	1.000000
rad14	1.73625e-17	1.000000	2.14896e-17	1.000000
rad27	4.96123e-18	1.000000	6.14053e-18	1.000000
rad22	2.88778e-18	1.000000	3.57422e-18	1.000000
rad8	7.86598e-19	1.000000	9.73573e-19	1.000000
rad31	5.35121e-19	1.000000	6.62325e-19	1.000000
rad47	7.66887e-21	1.000000	9.49183e-21	1.000000
rad5	7.82842e-22	1.000000	9.68924e-22	1.000000

0.100000000E-05 Pa, 1400.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.47024e-12 (1.00)	2.71984e-12 (1.00)
Formation of rad11	9.43269e-13 (0.272)	6.11768e-13 (0.225)
Formation of rad6	1.19194e-12 (0.343)	7.73043e-13 (0.284)
H-abstraction	1.33503e-12 (0.385)	1.33503e-12 (0.491)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.490849	0.490849
Phenyl+Allene	0.216237	0.600946	0.000000	0.490849
Indene+H	0.102753	0.703699	0.131102	0.621951
C2H2+PhCH2	0.0940337	0.797733	0.119977	0.741928
PhCH2CCH+H	0.0730480	0.870781	0.0932017	0.835129
PhCHCCH2+H	0.0704361	0.941217	0.0898693	0.924998
PhCCH+CH3	0.0407709	0.981988	0.0520195	0.977018

PAH7+H	0.00808062	0.990068	0.0103100	0.987328
Ph+MeAc	0.00578254	0.995851	0.00737791	0.994706
rad39	0.00153900	0.997390	0.00196361	0.996669
PhCCCH3+H	0.00104907	0.998439	0.00133851	0.998008
rad19anti	0.000537563	0.998977	0.000685873	0.998694
PAH9+H	0.000275092	0.999252	0.000350989	0.999045
rad19syn	0.000241019	0.999493	0.000307515	0.999352
rad38	0.000115616	0.999608	0.000147513	0.999500
PhcycC3H3_A+H	9.27188e-05	0.999701	0.000118299	0.999618
rad54	9.02066e-05	0.999791	0.000115094	0.999733
rad35	5.05796e-05	0.999842	6.45344e-05	0.999798
rad30	3.27889e-05	0.999875	4.18352e-05	0.999840
rad46	2.89889e-05	0.999904	3.69868e-05	0.999877
PAH1+H	1.59963e-05	0.999920	2.04096e-05	0.999897
rad37	1.43563e-05	0.999934	1.83172e-05	0.999915
PAH3+H	1.18378e-05	0.999946	1.51038e-05	0.999930
rad50	1.13924e-05	0.999957	1.45355e-05	0.999945
rad70	9.33021e-06	0.999967	1.19044e-05	0.999957
PAH10+CH3	9.00294e-06	0.999976	1.14868e-05	0.999968
rad67	7.68554e-06	0.999983	9.80595e-06	0.999978
rad55	5.54137e-06	0.999989	7.07023e-06	0.999985
rad51	1.81654e-06	0.999991	2.31772e-06	0.999988
rad34	1.77488e-06	0.999992	2.26456e-06	0.999990
rad60syn	1.71203e-06	0.999994	2.18438e-06	0.999992
rad59	1.34390e-06	0.999995	1.71468e-06	0.999994
rad62	1.09238e-06	0.999997	1.39377e-06	0.999995
rad60anti	1.02264e-06	0.999998	1.30479e-06	0.999996
rad53	7.63459e-07	0.999998	9.74098e-07	0.999997
rad52	7.36190e-07	0.999999	9.39297e-07	0.999998
rad56	5.61676e-07	1.000000	7.16641e-07	0.999999
rad64	1.97836e-07	1.000000	2.52418e-07	0.999999
rad43	1.00004e-07	1.000000	1.27595e-07	0.999999
PAH8+H	7.73009e-08	1.000000	9.86282e-08	1.000000
rad58	5.80225e-08	1.000000	7.40306e-08	1.000000
rad65	5.51354e-08	1.000000	7.03469e-08	1.000000
rad68syn	5.11875e-08	1.000000	6.53098e-08	1.000000
rad42	4.85214e-08	1.000000	6.19082e-08	1.000000
rad68anti	3.37456e-08	1.000000	4.30559e-08	1.000000
rad40syn	1.23711e-08	1.000000	1.57842e-08	1.000000
rad73	1.01769e-08	1.000000	1.29847e-08	1.000000
rad71	9.36208e-09	1.000000	1.19451e-08	1.000000
rad40anti	6.47926e-09	1.000000	8.26688e-09	1.000000
rad61	4.96370e-09	1.000000	6.33318e-09	1.000000
rad41	3.08784e-09	1.000000	3.93976e-09	1.000000
rad72	1.29425e-10	1.000000	1.65133e-10	1.000000
rad6	5.49171e-13	1.000000	7.00684e-13	1.000000
rad11	1.92517e-13	1.000000	2.45631e-13	1.000000
rad7	1.43249e-13	1.000000	1.82771e-13	1.000000
rad23	4.49273e-14	1.000000	5.73228e-14	1.000000
rad9	4.23101e-14	1.000000	5.39833e-14	1.000000
rad13	3.13833e-14	1.000000	4.00418e-14	1.000000
rad45	2.71120e-14	1.000000	3.45921e-14	1.000000
rad21	3.81060e-15	1.000000	4.86193e-15	1.000000
rad2	2.73894e-15	1.000000	3.49461e-15	1.000000
rad36	2.67302e-15	1.000000	3.41050e-15	1.000000
rad10	1.66792e-15	1.000000	2.12809e-15	1.000000
rad20	1.53040e-15	1.000000	1.95263e-15	1.000000
rad28	1.34201e-15	1.000000	1.71226e-15	1.000000
rad33	9.75778e-16	1.000000	1.24499e-15	1.000000
rad1	6.91599e-16	1.000000	8.82410e-16	1.000000
rad3	3.93815e-16	1.000000	5.02467e-16	1.000000
rad18	3.17460e-16	1.000000	4.05046e-16	1.000000
rad4	3.16531e-16	1.000000	4.03861e-16	1.000000
rad25	1.93942e-16	1.000000	2.47449e-16	1.000000
rad15	1.81660e-16	1.000000	2.31779e-16	1.000000
rad26	1.79744e-16	1.000000	2.29335e-16	1.000000
rad24	8.67708e-17	1.000000	1.10711e-16	1.000000
rad12	7.86877e-17	1.000000	1.00397e-16	1.000000
rad22	2.40405e-17	1.000000	3.06732e-17	1.000000
rad14	1.10830e-17	1.000000	1.41408e-17	1.000000
rad27	2.35634e-18	1.000000	3.00645e-18	1.000000
rad8	9.26462e-19	1.000000	1.18207e-18	1.000000
rad31	3.51109e-19	1.000000	4.47978e-19	1.000000
rad47	1.36054e-20	1.000000	1.73591e-20	1.000000
rad5	3.13072e-21	1.000000	3.99447e-21	1.000000

0.100000000E-05 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	4.61271e-12 (1.00)	3.52361e-12 (1.00)
Formation of rad11	1.20217e-12 (0.261)	7.28782e-13 (0.207)
Formation of rad6	1.56360e-12 (0.339)	9.47887e-13 (0.269)
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.524)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.524162	0.524162
Phenyl+Allene	0.236109	0.636511	0.000000	0.524162
Indene+H	0.0806435	0.717155	0.105570	0.629731
PhCH2CCH+H	0.0806387	0.797793	0.105563	0.735294
C2H2+PhCH2	0.0787062	0.876500	0.103033	0.838328
PhCHCCH2+H	0.0701571	0.946657	0.0918421	0.930170
PhCCH+CH3	0.0359368	0.982594	0.0470444	0.977214
PAH7+H	0.00805110	0.990645	0.0105396	0.987754
Ph+MeAc	0.00526035	0.995905	0.00688624	0.994640
rad39	0.00146497	0.997370	0.00191777	0.996558
PhCCCH3+H	0.000785539	0.998156	0.00102834	0.997586
rad19anti	0.000582991	0.998739	0.000763188	0.998349
rad19syn	0.000316567	0.999055	0.000414413	0.998764
PAH9+H	0.000302845	0.999358	0.000396450	0.999160
PhcycC3H3_A+H	0.000139913	0.999498	0.000183158	0.999343
rad38	0.000129499	0.999627	0.000169526	0.999513
rad54	0.000122808	0.999750	0.000160767	0.999674
rad35	5.49599e-05	0.999805	7.19472e-05	0.999746
rad46	3.45380e-05	0.999840	4.52132e-05	0.999791
rad30	3.01156e-05	0.999870	3.94239e-05	0.999830
PAH1+H	2.31901e-05	0.999893	3.03579e-05	0.999861
rad50	1.62766e-05	0.999909	2.13074e-05	0.999882
rad37	1.56192e-05	0.999925	2.04470e-05	0.999902
PAH3+H	1.44553e-05	0.999939	1.89232e-05	0.999921
rad70	1.26613e-05	0.999952	1.65747e-05	0.999938
PAH10+CH3	1.25752e-05	0.999965	1.64620e-05	0.999954
rad67	1.09793e-05	0.999976	1.43728e-05	0.999969
rad55	7.93592e-06	0.999983	1.03888e-05	0.999979
rad51	2.96749e-06	0.999986	3.88470e-06	0.999983
rad34	2.57549e-06	0.999989	3.37153e-06	0.999986
rad60syn	1.82792e-06	0.999991	2.39290e-06	0.999989
rad59	1.58467e-06	0.999992	2.07447e-06	0.999991
rad62	1.38706e-06	0.999994	1.81579e-06	0.999993
rad53	1.32204e-06	0.999995	1.73067e-06	0.999994
rad52	1.12378e-06	0.999996	1.47114e-06	0.999996
rad60anti	1.10268e-06	0.999997	1.44350e-06	0.999997
rad56	1.07222e-06	0.999998	1.40364e-06	0.999999
rad64	3.15087e-07	0.999999	4.12476e-07	0.999999
PAH8+H	1.66252e-07	0.999999	2.17639e-07	0.999999
rad43	1.09523e-07	0.999999	1.43375e-07	0.999999
rad68syn	9.28291e-08	0.999999	1.21521e-07	0.999999
rad65	8.88724e-08	0.999999	1.16342e-07	1.000000
rad58	8.42069e-08	0.999999	1.10234e-07	1.000000
rad42	7.16663e-08	0.999999	9.38173e-08	1.000000
rad68anti	6.10163e-08	0.999999	7.98757e-08	1.000000
rad40syn	2.48114e-08	0.999999	3.24802e-08	1.000000
rad71	2.35639e-08	0.999999	3.08472e-08	1.000000
rad73	2.32861e-08	0.999999	3.04835e-08	1.000000
rad40anti	1.33700e-08	0.999999	1.75025e-08	1.000000
rad61	9.14968e-09	0.999999	1.19777e-08	1.000000
rad41	4.14357e-09	0.999999	5.42427e-09	1.000000
rad72	4.05222e-10	0.999999	5.30469e-10	1.000000
rad6	1.02582e-12	0.999999	1.34289e-12	1.000000
rad11	1.35774e-13	0.999999	1.77739e-13	1.000000
rad7	1.25086e-13	0.999999	1.63749e-13	1.000000
rad9	2.74303e-14	0.999999	3.59086e-14	1.000000
rad23	2.50449e-14	0.999999	3.27860e-14	1.000000
rad13	1.89900e-14	0.999999	2.48597e-14	1.000000
rad45	1.53922e-14	0.999999	2.01497e-14	1.000000
rad28	2.52835e-15	0.999999	3.30983e-15	1.000000
rad21	2.42952e-15	0.999999	3.18045e-15	1.000000
rad36	1.53196e-15	0.999999	2.00547e-15	1.000000
rad2	9.72667e-16	0.999999	1.27331e-15	1.000000
rad10	8.83717e-16	0.999999	1.15686e-15	1.000000
rad20	8.79172e-16	0.999999	1.15092e-15	1.000000
rad33	6.33589e-16	0.999999	8.29424e-16	1.000000
rad15	2.99667e-16	0.999999	3.92291e-16	1.000000
rad1	2.49824e-16	0.999999	3.27041e-16	1.000000
rad18	2.34698e-16	0.999999	3.07239e-16	1.000000
rad26	1.92659e-16	0.999999	2.52208e-16	1.000000
rad3	1.85662e-16	0.999999	2.43047e-16	1.000000
rad4	1.49982e-16	0.999999	1.96339e-16	1.000000
rad25	1.37831e-16	0.999999	1.80433e-16	1.000000

rad22	1.27564e-16	0.999999	1.66993e-16	1.00000
rad12	6.49250e-17	0.999999	8.49924e-17	1.00000
rad24	6.18581e-17	0.999999	8.09777e-17	1.00000
rad14	6.98939e-18	0.999999	9.14971e-18	1.00000
rad27	1.15740e-18	0.999999	1.51513e-18	1.00000
rad8	9.76883e-19	0.999999	1.27883e-18	1.00000
rad31	2.37694e-19	0.999999	3.11163e-19	1.00000
rad47	2.21852e-20	0.999999	2.90423e-20	1.00000
rad5	9.74922e-21	0.999999	1.27626e-20	1.00000

0.100000000E-05 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.27400e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.05237e-12 (0.168)
Formation of rad6	2.80256e-12 (0.325)	1.44565e-12 (0.230)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.602)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.601845	0.601845
Phenyl+Allene	0.272047	0.710162	0.00000	0.601845
PhCH2CCH+H	0.0933387	0.803501	0.128221	0.730066
PhCHCCH2+H	0.0656327	0.869134	0.0901606	0.820227
C2H2+PhCH2	0.0475978	0.916731	0.0653858	0.885612
Indene+H	0.0395372	0.956269	0.0543127	0.939925
PhCCH+CH3	0.0276514	0.983920	0.0379853	0.977910
PAH7+H	0.00712605	0.991046	0.00978916	0.987700
Ph+MeAc	0.00488545	0.995931	0.00671122	0.994411
rad39	0.00123375	0.997165	0.00169483	0.996106
rad19anti	0.000564116	0.997729	0.000774933	0.996881
rad19syn	0.000506158	0.998235	0.000695318	0.997576
PhCCH3+H	0.000461483	0.998697	0.000633946	0.998210
PhcycC3H3_A+H	0.000354596	0.999052	0.000487115	0.998697
PAH9+H	0.000266731	0.999318	0.000366412	0.999063
rad54	0.000215004	0.999533	0.000295354	0.999359
rad38	0.000142764	0.999676	0.000196118	0.999555
rad35	4.88397e-05	0.999725	6.70919e-05	0.999622
PAH1+H	4.24056e-05	0.999767	5.82532e-05	0.999680
rad46	3.79670e-05	0.999805	5.21559e-05	0.999732
rad50	2.38701e-05	0.999829	3.27908e-05	0.999765
rad30	2.30179e-05	0.999852	3.16201e-05	0.999797
PAH10+CH3	2.22275e-05	0.999874	3.05343e-05	0.999827
rad70	2.20506e-05	0.999896	3.02913e-05	0.999858
PAH3+H	2.08052e-05	0.999917	2.85805e-05	0.999886
rad55	1.72026e-05	0.999934	2.36314e-05	0.999910
rad67	1.69163e-05	0.999951	2.32382e-05	0.999933
rad37	1.61425e-05	0.999968	2.21752e-05	0.999955
rad51	6.11253e-06	0.999974	8.39689e-06	0.999964
rad34	5.25680e-06	0.999979	7.22134e-06	0.999971
rad53	4.39527e-06	0.999983	6.03786e-06	0.999977
rad56	3.99314e-06	0.999987	5.48546e-06	0.999982
rad62	2.35598e-06	0.999990	3.23645e-06	0.999986
rad59	2.06481e-06	0.999992	2.83647e-06	0.999988
rad52	2.03181e-06	0.999994	2.79112e-06	0.999991
rad60syn	1.94292e-06	0.999996	2.66902e-06	0.999994
rad60anti	1.30713e-06	0.999997	1.79563e-06	0.999996
rad64	7.88600e-07	0.999998	1.08332e-06	0.999997
PAH8+H	5.90480e-07	0.999998	8.11153e-07	0.999998
rad68syn	2.81742e-07	0.999999	3.87034e-07	0.999998
rad68anti	1.82569e-07	0.999999	2.50799e-07	0.999998
rad65	1.74382e-07	0.999999	2.39552e-07	0.999998
rad42	1.70585e-07	0.999999	2.34336e-07	0.999999
rad58	1.57351e-07	0.999999	2.16156e-07	0.999999
rad43	1.31435e-07	0.999999	1.80554e-07	0.999999
rad71	1.24696e-07	1.000000	1.71297e-07	0.999999
rad73	9.95914e-08	1.000000	1.36810e-07	0.999999
rad40syn	8.39457e-08	1.000000	1.15318e-07	1.000000
rad40anti	5.01024e-08	1.000000	6.88266e-08	1.000000
rad61	2.64237e-08	1.000000	3.62987e-08	1.000000
rad41	7.91859e-09	1.000000	1.08779e-08	1.000000
rad72	3.69500e-09	1.000000	5.07588e-09	1.000000
rad6	2.73080e-12	1.000000	3.75135e-12	1.000000
rad7	2.29341e-14	1.000000	3.15050e-14	1.000000
rad11	1.74064e-14	1.000000	2.39114e-14	1.000000
rad28	6.31981e-15	1.000000	8.68161e-15	1.000000
rad23	4.89980e-15	1.000000	6.73093e-15	1.000000
rad9	2.21653e-15	1.000000	3.04488e-15	1.000000
rad13	1.60834e-15	1.000000	2.20940e-15	1.000000

rad45	1.32473e-15	1.000000	1.81981e-15	1.000000
rad22	8.40732e-16	1.000000	1.15493e-15	1.000000
rad36	2.29350e-16	1.000000	3.15062e-16	1.000000
rad21	1.98012e-16	1.000000	2.72012e-16	1.000000
rad26	1.29918e-16	1.000000	1.78470e-16	1.000000
rad15	1.11839e-16	1.000000	1.53634e-16	1.000000
rad10	7.68462e-17	1.000000	1.05565e-16	1.000000
rad20	6.44623e-17	1.000000	8.85528e-17	1.000000
rad33	5.54005e-17	1.000000	7.61045e-17	1.000000
rad18	2.99781e-17	1.000000	4.11816e-17	1.000000
rad2	2.60287e-17	1.000000	3.57561e-17	1.000000
rad25	1.43077e-17	1.000000	1.96547e-17	1.000000
rad12	7.47122e-18	1.000000	1.02634e-17	1.000000
rad1	7.12718e-18	1.000000	9.79075e-18	1.000000
rad3	6.45556e-18	1.000000	8.86814e-18	1.000000
rad24	6.07027e-18	1.000000	8.33884e-18	1.000000
rad4	4.13705e-18	1.000000	5.68314e-18	1.000000
rad14	7.58528e-19	1.000000	1.04200e-18	1.000000
rad8	2.76592e-19	1.000000	3.79959e-19	1.000000
rad27	6.88422e-20	1.000000	9.45698e-20	1.000000
rad5	5.43716e-20	1.000000	7.46911e-20	1.000000
rad47	1.43456e-20	1.000000	1.97067e-20	1.000000

0.100000000E-05 Pa, 2000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.44111e-11 (1.00)	1.02930e-11 (1.00)
Formation of rad11	3.16882e-12 (0.220)	1.47449e-12 (0.143)
Formation of rad6	4.53302e-12 (0.315)	2.10927e-12 (0.205)
H-abstraction	6.70922e-12 (0.466)	6.70922e-12 (0.652)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.651825	0.651825
Phenyl+Allene	0.285759	0.751319	0.000000	0.651825
PhCH2CCH+H	0.0971788	0.848498	0.136059	0.787884
PhCHCCH2+H	0.0592993	0.907797	0.0830241	0.870908
C2H2+PhCH2	0.0319942	0.939791	0.0447948	0.915703
Indene+H	0.0233046	0.963096	0.0326284	0.948331
PhCCH+CH3	0.0216466	0.984742	0.0303071	0.978638
PAH7+H	0.00659328	0.991336	0.00923114	0.987869
Ph+MeAc	0.00420938	0.995545	0.00589349	0.993763
rad39	0.00101472	0.996560	0.00142069	0.995183
rad19syn	0.000746783	0.997306	0.00104557	0.996229
PhcycC3H3_A+H	0.000656335	0.997963	0.000918925	0.997148
rad19anti	0.000529228	0.998492	0.000740966	0.997889
rad54	0.000330237	0.998822	0.000462359	0.998351
PhCCCH3+H	0.000291962	0.999114	0.000408772	0.998760
PAH9+H	0.000279546	0.999394	0.000391387	0.999151
rad38	0.000156414	0.999550	0.000218994	0.999370
PAH1+H	6.96990e-05	0.999620	9.75848e-05	0.999468
rad35	5.18637e-05	0.999672	7.26137e-05	0.999541
rad46	4.57412e-05	0.999717	6.40416e-05	0.999605
rad50	3.87497e-05	0.999756	5.42530e-05	0.999659
PAH10+CH3	3.34470e-05	0.999790	4.68285e-05	0.999706
rad70	3.20125e-05	0.999822	4.48203e-05	0.999751
rad55	2.86889e-05	0.999850	4.01669e-05	0.999791
PAH3+H	2.79049e-05	0.999878	3.90694e-05	0.999830
rad67	2.51584e-05	0.999903	3.52238e-05	0.999865
rad30	1.88901e-05	0.999922	2.64479e-05	0.999891
rad37	1.66057e-05	0.999939	2.32494e-05	0.999915
rad51	1.22963e-05	0.999951	1.72160e-05	0.999932
rad56	1.03249e-05	0.999961	1.44559e-05	0.999946
rad53	9.90974e-06	0.999971	1.38745e-05	0.999960
rad34	8.56178e-06	0.999980	1.19873e-05	0.999972
rad52	3.64112e-06	0.999984	5.09788e-06	0.999977
rad62	3.41505e-06	0.999987	4.78139e-06	0.999982
rad59	2.58714e-06	0.999990	3.62224e-06	0.999986
rad60syn	2.06844e-06	0.999992	2.89599e-06	0.999989
PAH8+H	1.81455e-06	0.999993	2.54053e-06	0.999991
rad64	1.47576e-06	0.999995	2.06619e-06	0.999993
rad60anti	1.42207e-06	0.999996	1.99102e-06	0.999995
rad68syn	6.53892e-07	0.999997	9.15510e-07	0.999996
rad71	4.98025e-07	0.999998	6.97277e-07	0.999997
rad68anti	4.21792e-07	0.999998	5.90544e-07	0.999997
rad73	3.38736e-07	0.999998	4.74260e-07	0.999998
rad65	3.37785e-07	0.999999	4.72930e-07	0.999998
rad42	3.12138e-07	0.999999	4.37019e-07	0.999999
rad58	2.75720e-07	0.999999	3.86032e-07	0.999999

rad40syn	2.27523e-07	0.999999	3.18551e-07	1.000000
rad43	1.62531e-07	1.000000	2.27558e-07	1.000000
rad40anti	1.42660e-07	1.000000	1.99737e-07	1.000000
rad61	5.98888e-08	1.000000	8.38493e-08	1.000000
rad72	2.09307e-08	1.000000	2.93048e-08	1.000000
rad41	1.34670e-08	1.000000	1.88550e-08	1.000000
rad6	5.91208e-13	1.000000	8.27745e-13	1.000000
rad7	5.25013e-15	1.000000	7.35064e-15	1.000000
rad11	4.12478e-15	1.000000	5.77504e-15	1.000000
rad23	3.04466e-15	1.000000	4.26278e-15	1.000000
rad28	2.01472e-15	1.000000	2.82078e-15	1.000000
rad9	7.54180e-16	1.000000	1.05592e-15	1.000000
rad13	4.89592e-16	1.000000	6.85474e-16	1.000000
rad45	4.02815e-16	1.000000	5.63974e-16	1.000000
rad22	2.64949e-16	1.000000	3.70953e-16	1.000000
rad21	7.16422e-17	1.000000	1.00305e-16	1.000000
rad36	7.13509e-17	1.000000	9.98974e-17	1.000000
rad15	3.98246e-17	1.000000	5.57578e-17	1.000000
rad26	3.09848e-17	1.000000	4.33812e-17	1.000000
rad33	2.26331e-17	1.000000	3.16884e-17	1.000000
rad20	1.89431e-17	1.000000	2.65220e-17	1.000000
rad10	1.14211e-17	1.000000	1.59906e-17	1.000000
rad18	6.66195e-18	1.000000	9.32730e-18	1.000000
rad25	5.79819e-18	1.000000	8.11799e-18	1.000000
rad12	4.14756e-18	1.000000	5.80694e-18	1.000000
rad2	3.44956e-18	1.000000	4.82968e-18	1.000000
rad24	2.85159e-18	1.000000	3.99249e-18	1.000000
rad3	1.63673e-18	1.000000	2.29157e-18	1.000000
rad4	1.04107e-18	1.000000	1.45759e-18	1.000000
rad1	9.77378e-19	1.000000	1.36842e-18	1.000000
rad14	2.92675e-19	1.000000	4.09771e-19	1.000000
rad8	2.34712e-19	1.000000	3.28617e-19	1.000000
rad5	3.72840e-20	1.000000	5.22009e-20	1.000000
rad47	2.86742e-20	1.000000	4.01464e-20	1.000000
rad27	1.89904e-20	1.000000	2.65882e-20	1.000000

0.100000000E-05 Pa, 2250.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.23655e-11	(1.00)	1.58437e-11	(1.00)
Formation of rad11	4.62280e-12	(0.207)	1.98925e-12	(0.126)
Formation of rad6	6.82518e-12	(0.305)	2.93696e-12	(0.185)
H-abstraction	1.09175e-11	(0.488)	1.09175e-11	(0.689)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.689074	0.689074
Phenyl+Allene	0.291600	0.779740	0.000000	0.689074
PhCH2CCH+H	0.0967415	0.876482	0.136563	0.825637
PhCHCCH2+H	0.0532744	0.929756	0.0752040	0.900841
C2H2+PhCH2	0.0232642	0.953020	0.0328403	0.933682
PhCCH+CH3	0.0176492	0.970669	0.0249142	0.958596
Indene+H	0.0145378	0.985207	0.0205221	0.979118
PAH7+H	0.00604332	0.991251	0.00853097	0.987649
Ph+MeAc	0.00373478	0.994985	0.00527212	0.992921
PhcycC3H3_A+H	0.00104439	0.996030	0.00147430	0.994395
rad19syn	0.000992650	0.997022	0.00140125	0.995797
rad39	0.000833753	0.997856	0.00117695	0.996974
rad19anti	0.000463520	0.998320	0.000654319	0.997628
rad54	0.000448432	0.998768	0.000633020	0.998261
PAH9+H	0.000276004	0.999044	0.000389615	0.998651
PhCCCH3+H	0.000209665	0.999254	0.000295970	0.998946
rad38	0.000160719	0.999414	0.000226876	0.999173
PAH1+H	9.95931e-05	0.999514	0.000140589	0.999314
rad50	5.46328e-05	0.999569	7.71214e-05	0.999391
rad35	5.24979e-05	0.999621	7.41079e-05	0.999465
rad46	5.06983e-05	0.999672	7.15674e-05	0.999537
PAH10+CH3	4.32190e-05	0.999715	6.10093e-05	0.999598
rad55	4.15447e-05	0.999757	5.86459e-05	0.999656
rad70	4.13232e-05	0.999798	5.83331e-05	0.999715
PAH3+H	3.54273e-05	0.999833	5.00103e-05	0.999765
rad67	3.21710e-05	0.999866	4.54135e-05	0.999810
rad56	2.10958e-05	0.999887	2.97795e-05	0.999840
rad51	2.05290e-05	0.999907	2.89794e-05	0.999869
rad53	1.82253e-05	0.999925	2.57273e-05	0.999895
rad30	1.61770e-05	0.999942	2.28359e-05	0.999917
rad37	1.58091e-05	0.999957	2.23166e-05	0.999940
rad34	1.21378e-05	0.999970	1.71341e-05	0.999957
rad52	5.53699e-06	0.999975	7.81618e-06	0.999965

rad62	4.54170e-06	0.999980	6.41120e-06	0.999971
PAH8+H	4.26413e-06	0.999984	6.01937e-06	0.999977
rad59	3.10133e-06	0.999987	4.37793e-06	0.999982
rad64	2.31389e-06	0.999989	3.26637e-06	0.999985
rad60syn	2.18352e-06	0.999991	3.08232e-06	0.999988
rad60anti	1.52762e-06	0.999993	2.15643e-06	0.999990
rad71	1.42621e-06	0.999994	2.01328e-06	0.999992
rad68syn	1.22834e-06	0.999996	1.73396e-06	0.999994
rad73	8.52958e-07	0.999996	1.20406e-06	0.999995
rad68anti	7.89692e-07	0.999997	1.11475e-06	0.999996
rad65	5.43585e-07	0.999998	7.67340e-07	0.999997
rad42	4.97942e-07	0.999998	7.02910e-07	0.999998
rad40syn	4.83630e-07	0.999999	6.82706e-07	0.999998
rad58	4.30302e-07	0.999999	6.07428e-07	0.999999
rad40anti	3.15359e-07	1.000000	4.45171e-07	0.999999
rad43	2.01350e-07	1.000000	2.84232e-07	1.000000
rad61	1.06762e-07	1.000000	1.50709e-07	1.000000
rad72	7.85254e-08	1.000000	1.10849e-07	1.000000
rad41	2.11925e-08	1.000000	2.99160e-08	1.000000
rad6	1.19040e-13	1.000000	1.68040e-13	1.000000
rad7	1.68552e-15	1.000000	2.37934e-15	1.000000
rad11	1.28921e-15	1.000000	1.81989e-15	1.000000
rad23	8.52364e-16	1.000000	1.20322e-15	1.000000
rad28	4.33631e-16	1.000000	6.12126e-16	1.000000
rad9	2.74141e-16	1.000000	3.86985e-16	1.000000
rad13	1.82809e-16	1.000000	2.58059e-16	1.000000
rad45	1.39758e-16	1.000000	1.97287e-16	1.000000
rad22	6.74038e-17	1.000000	9.51495e-17	1.000000
rad21	2.97971e-17	1.000000	4.20624e-17	1.000000
rad36	2.52499e-17	1.000000	3.56436e-17	1.000000
rad15	1.60379e-17	1.000000	2.26396e-17	1.000000
rad33	1.06526e-17	1.000000	1.50376e-17	1.000000
rad26	8.48024e-18	1.000000	1.19710e-17	1.000000
rad20	6.76720e-18	1.000000	9.55283e-18	1.000000
rad10	3.04337e-18	1.000000	4.29613e-18	1.000000
rad25	2.68292e-18	1.000000	3.78730e-18	1.000000
rad12	2.31790e-18	1.000000	3.27203e-18	1.000000
rad18	2.02949e-18	1.000000	2.86490e-18	1.000000
rad24	1.45642e-18	1.000000	2.05592e-18	1.000000
rad2	6.60233e-19	1.000000	9.32007e-19	1.000000
rad3	5.33291e-19	1.000000	7.52811e-19	1.000000
rad4	3.33190e-19	1.000000	4.70341e-19	1.000000
rad8	2.01388e-19	1.000000	2.84285e-19	1.000000
rad1	1.88978e-19	1.000000	2.66767e-19	1.000000
rad14	1.40657e-19	1.000000	1.98555e-19	1.000000
rad47	4.71862e-20	1.000000	6.66093e-20	1.000000
rad5	2.19065e-20	1.000000	3.09238e-20	1.000000
rad27	7.37416e-21	1.000000	1.04096e-20	1.000000

0.100000000E-05 Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.28090e-11 (1.00)	2.31980e-11 (1.00)
Formation of rad11	6.43164e-12 (0.196)	2.60906e-12 (0.112)
Formation of rad6	9.73932e-12 (0.297)	3.95085e-12 (0.170)
H-abstraction	1.66381e-11 (0.507)	1.66381e-11 (0.717)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.717221	0.717221
Phenyl+Allene	0.292939	0.800058	0.000000	0.717221
PhCH2CCH+H	0.0943957	0.894453	0.133505	0.850725
PhCHCCH2+H	0.0481939	0.942647	0.0681609	0.918886
C2H2+PhCH2	0.0183497	0.960997	0.0259521	0.944838
PhCCH+CH3	0.0148752	0.975872	0.0210381	0.965876
Indene+H	0.00953292	0.985405	0.0134824	0.979359
PAH7+H	0.00553047	0.990936	0.00782174	0.987180
Ph+MeAc	0.00339482	0.994330	0.00480131	0.991982
PhcycC3H3_A+H	0.00149309	0.995824	0.00211168	0.994093
rad19syn	0.00122618	0.997050	0.00173419	0.995828
rad39	0.000692493	0.997742	0.000979395	0.996807
rad54	0.000558297	0.998301	0.000789599	0.997597
rad19anti	0.000392540	0.998693	0.000555170	0.998152
PAH9+H	0.000261381	0.998954	0.000369672	0.998522
PhCCCH3+H	0.000164587	0.999119	0.000232776	0.998754
rad38	0.000157797	0.999277	0.000223174	0.998977
PAH1+H	0.000129617	0.999406	0.000183319	0.999161
rad50	6.95411e-05	0.999476	9.83527e-05	0.999259
rad55	5.44673e-05	0.999530	7.70336e-05	0.999336

rad46	5.29591e-05	0.999583	7.49001e-05	0.999411
rad35	5.14100e-05	0.999635	7.27094e-05	0.999484
PAH10+CH3	5.04331e-05	0.999685	7.13277e-05	0.999555
rad70	4.95223e-05	0.999735	7.00399e-05	0.999625
PAH3+H	4.31617e-05	0.999778	6.10439e-05	0.999686
rad67	3.73882e-05	0.999815	5.28783e-05	0.999739
rad56	3.65112e-05	0.999852	5.16378e-05	0.999791
rad51	2.99347e-05	0.999882	4.23369e-05	0.999833
rad53	2.90213e-05	0.999911	4.10449e-05	0.999874
rad34	1.57208e-05	0.999926	2.22340e-05	0.999896
rad30	1.43454e-05	0.999941	2.02888e-05	0.999917
rad37	1.43019e-05	0.999955	2.02272e-05	0.999937
PAH8+H	8.32886e-06	0.999963	1.17795e-05	0.999949
rad52	7.47627e-06	0.999971	1.05737e-05	0.999959
rad62	5.70269e-06	0.999977	8.06532e-06	0.999967
rad59	3.60017e-06	0.999980	5.09173e-06	0.999972
rad64	3.22135e-06	0.999983	4.55597e-06	0.999977
rad71	3.21465e-06	0.999987	4.54650e-06	0.999981
rad60syn	2.29248e-06	0.999989	3.24226e-06	0.999985
rad68syn	1.99920e-06	0.999991	2.82747e-06	0.999988
rad73	1.73023e-06	0.999993	2.44707e-06	0.999990
rad60anti	1.62672e-06	0.999994	2.30068e-06	0.999992
rad68anti	1.28205e-06	0.999996	1.81322e-06	0.999994
rad40syn	8.70429e-07	0.999996	1.23105e-06	0.999995
rad65	7.65686e-07	0.999997	1.08291e-06	0.999996
rad42	7.25369e-07	0.999998	1.02590e-06	0.999997
rad58	6.16762e-07	0.999999	8.72293e-07	0.999998
rad40anti	5.85898e-07	0.999999	8.28640e-07	0.999999
rad43	2.45120e-07	0.999999	3.46673e-07	0.999999
rad72	2.19453e-07	1.000000	3.10373e-07	1.000000
rad61	1.61750e-07	1.000000	2.28765e-07	1.000000
rad41	3.09947e-08	1.000000	4.38359e-08	1.000000
rad6	3.25694e-14	1.000000	4.60631e-14	1.000000
rad7	6.60234e-16	1.000000	9.33769e-16	1.000000
rad11	4.80253e-16	1.000000	6.79225e-16	1.000000
rad23	2.48545e-16	1.000000	3.51520e-16	1.000000
rad28	1.17713e-16	1.000000	1.66482e-16	1.000000
rad9	1.06944e-16	1.000000	1.51252e-16	1.000000
rad13	7.91321e-17	1.000000	1.11917e-16	1.000000
rad45	5.44866e-17	1.000000	7.70608e-17	1.000000
rad22	2.12456e-17	1.000000	3.00479e-17	1.000000
rad21	1.39345e-17	1.000000	1.97077e-17	1.000000
rad36	1.00116e-17	1.000000	1.41594e-17	1.000000
rad15	6.95061e-18	1.000000	9.83029e-18	1.000000
rad33	5.56576e-18	1.000000	7.87170e-18	1.000000
rad26	3.00907e-18	1.000000	4.25575e-18	1.000000
rad20	2.88827e-18	1.000000	4.08489e-18	1.000000
rad25	1.37165e-18	1.000000	1.93993e-18	1.000000
rad12	1.32606e-18	1.000000	1.87546e-18	1.000000
rad10	1.10722e-18	1.000000	1.56594e-18	1.000000
rad24	7.99114e-19	1.000000	1.13019e-18	1.000000
rad18	7.64139e-19	1.000000	1.08073e-18	1.000000
rad3	2.12498e-19	1.000000	3.00538e-19	1.000000
rad2	1.77671e-19	1.000000	2.51281e-19	1.000000
rad8	1.74700e-19	1.000000	2.47079e-19	1.000000
rad4	1.29898e-19	1.000000	1.83716e-19	1.000000
rad14	7.76880e-20	1.000000	1.09875e-19	1.000000
rad47	6.74962e-20	1.000000	9.54604e-20	1.000000
rad1	4.96553e-20	1.000000	7.02274e-20	1.000000
rad5	1.44564e-20	1.000000	2.04457e-20	1.000000
rad27	3.67276e-21	1.000000	5.19440e-21	1.000000

0.100000000E-05 Pa, 2750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.60596e-11 (1.00)	3.26255e-11 (1.00)
Formation of rad11	8.62280e-12 (0.187)	3.34633e-12 (0.103)
Formation of rad6	1.33313e-11 (0.289)	5.17360e-12 (0.159)
H-abstraction	2.41055e-11 (0.523)	2.41055e-11 (0.739)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.738856	0.738856
Phenyl+Allene	0.291669	0.815024	0.000000	0.738856
PhCH2CCH+H	0.0913925	0.906416	0.129025	0.867881
PhCHCCH2+H	0.0440897	0.950506	0.0622446	0.930126
C2H2+PhCH2	0.0155259	0.966032	0.0219190	0.952045
PhCCH+CH3	0.0128664	0.978898	0.0181644	0.970209
Indene+H	0.00652675	0.985425	0.00921427	0.979424

PAH7+H	0.00506746	0.990493	0.00715408	0.986578
Ph+MeAc	0.00315047	0.993643	0.00444775	0.991026
PhcycC3H3_A+H	0.00197300	0.995616	0.00278544	0.993811
rad19syn	0.00143568	0.997052	0.00202686	0.995838
rad54	0.000652594	0.997704	0.000921315	0.996759
rad39	0.000584043	0.998288	0.000824532	0.997584
rad19anti	0.000328573	0.998617	0.000463869	0.998048
PAH9+H	0.000240059	0.998857	0.000338907	0.998386
PAH1+H	0.000158291	0.999015	0.000223471	0.998610
rad38	0.000149711	0.999165	0.000211358	0.998821
PhCCCH3+H	0.000136861	0.999302	0.000193216	0.999015
rad50	8.19601e-05	0.999384	0.000115709	0.999130
rad55	6.64334e-05	0.999450	9.37887e-05	0.999224
rad70	5.64830e-05	0.999507	7.97407e-05	0.999304
rad56	5.59920e-05	0.999563	7.90477e-05	0.999383
PAH10+CH3	5.49972e-05	0.999618	7.76435e-05	0.999460
rad46	5.29186e-05	0.999671	7.47090e-05	0.999535
PAH3+H	5.07704e-05	0.999721	7.16761e-05	0.999607
rad35	4.92117e-05	0.999771	6.94754e-05	0.999676
rad53	4.15958e-05	0.999812	5.87239e-05	0.999735
rad67	4.08893e-05	0.999853	5.77263e-05	0.999793
rad51	3.94231e-05	0.999893	5.56562e-05	0.999848
rad34	1.91382e-05	0.999912	2.70187e-05	0.999875
PAH8+H	1.42400e-05	0.999926	2.01036e-05	0.999896
rad30	1.30159e-05	0.999939	1.83754e-05	0.999914
rad37	1.25497e-05	0.999951	1.77173e-05	0.999932
rad52	9.23200e-06	0.999961	1.30335e-05	0.999945
rad62	6.96508e-06	0.999968	9.83308e-06	0.999954
rad71	6.06264e-06	0.999974	8.55906e-06	0.999963
rad64	4.12924e-06	0.999978	5.82954e-06	0.999969
rad59	4.06487e-06	0.999982	5.73866e-06	0.999975
rad73	2.98825e-06	0.999985	4.21872e-06	0.999979
rad68syn	2.93858e-06	0.999988	4.14861e-06	0.999983
rad60syn	2.38752e-06	0.999990	3.37063e-06	0.999986
rad68anti	1.88086e-06	0.999992	2.65533e-06	0.999989
rad60anti	1.71401e-06	0.999994	2.41979e-06	0.999991
rad40syn	1.39059e-06	0.999995	1.96319e-06	0.999993
rad42	1.00618e-06	0.999996	1.42050e-06	0.999995
rad65	9.77109e-07	0.999997	1.37945e-06	0.999996
rad40anti	9.60893e-07	0.999998	1.35656e-06	0.999998
rad58	8.26832e-07	0.999999	1.16730e-06	0.999999
rad72	4.93194e-07	1.000000	6.96274e-07	0.999999
rad43	2.90363e-07	1.000000	4.09925e-07	1.000000
rad61	2.19014e-07	1.000000	3.09197e-07	1.000000
rad41	4.25216e-08	1.000000	6.00307e-08	1.000000
rad6	1.10899e-14	1.000000	1.56563e-14	1.000000
rad7	2.96672e-16	1.000000	4.18833e-16	1.000000
rad11	2.05428e-16	1.000000	2.90018e-16	1.000000
rad23	8.47981e-17	1.000000	1.19715e-16	1.000000
rad9	4.48827e-17	1.000000	6.33642e-17	1.000000
rad28	4.00896e-17	1.000000	5.65974e-17	1.000000
rad13	3.84823e-17	1.000000	5.43283e-17	1.000000
rad45	2.34574e-17	1.000000	3.31164e-17	1.000000
rad22	7.92776e-18	1.000000	1.11922e-17	1.000000
rad21	7.20273e-18	1.000000	1.01686e-17	1.000000
rad36	4.37127e-18	1.000000	6.17122e-18	1.000000
rad15	3.20717e-18	1.000000	4.52779e-18	1.000000
rad33	3.15102e-18	1.000000	4.44850e-18	1.000000
rad20	1.44342e-18	1.000000	2.03778e-18	1.000000
rad26	1.23248e-18	1.000000	1.73998e-18	1.000000
rad12	7.84782e-19	1.000000	1.10793e-18	1.000000
rad25	7.63295e-19	1.000000	1.07760e-18	1.000000
rad10	4.78404e-19	1.000000	6.75396e-19	1.000000
rad24	4.65717e-19	1.000000	6.57484e-19	1.000000
rad18	3.38453e-19	1.000000	4.77817e-19	1.000000
rad8	1.52996e-19	1.000000	2.15996e-19	1.000000
rad3	9.87576e-20	1.000000	1.39423e-19	1.000000
rad47	8.69678e-20	1.000000	1.22779e-19	1.000000
rad2	6.30378e-20	1.000000	8.89949e-20	1.000000
rad4	5.93061e-20	1.000000	8.37266e-20	1.000000
rad14	4.74805e-20	1.000000	6.70314e-20	1.000000
rad1	1.67172e-20	1.000000	2.36009e-20	1.000000
rad5	1.01387e-20	1.000000	1.43136e-20	1.000000
rad27	2.15735e-21	1.000000	3.04569e-21	1.000000

0.100000000E-05 Pa, 3000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.43911e-11 (1.00)

Formation of rad11	1.12221e-11 (0.180)	4.21269e-12 (0.0949)
Formation of rad6	1.76534e-11 (0.283)	6.62699e-12 (0.149)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.756)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.755814	0.755814
Phenyl+Allene	0.288911	0.826362	0.00000	0.755814
PhCH2CCH+H	0.0883066	0.914669	0.124185	0.879999
PhCHCCH2+H	0.0408111	0.955480	0.0573925	0.937392
C2H2+PhCH2	0.0138651	0.969345	0.0194984	0.956890
PhCCH+CH3	0.0113582	0.980703	0.0159730	0.972863
PAH7+H	0.00465329	0.985356	0.00654386	0.979407
Indene+H	0.00463895	0.989995	0.00652370	0.985931
Ph+MeAc	0.00297587	0.992971	0.00418496	0.990116
PhcycC3H3_A+H	0.00245642	0.995427	0.00345445	0.993570
rad19syn	0.00161454	0.997042	0.00227052	0.995841
rad54	0.000727890	0.997770	0.00102362	0.996864
rad39	0.000500510	0.998270	0.000703861	0.997568
rad19anti	0.000275358	0.998546	0.000387232	0.997955
PAH9+H	0.000215435	0.998761	0.000302964	0.998258
PAH1+H	0.000185098	0.998946	0.000260302	0.998519
rad38	0.000138297	0.999085	0.000194486	0.998713
PhCCCH3+H	0.000118094	0.999203	0.000166074	0.998879
rad50	9.10199e-05	0.999294	0.000128001	0.999007
rad56	7.84307e-05	0.999372	0.000110297	0.999117
rad55	7.67854e-05	0.999449	0.000107983	0.999225
rad70	6.22156e-05	0.999511	8.74935e-05	0.999313
PAH3+H	5.79162e-05	0.999569	8.14472e-05	0.999394
PAH10+CH3	5.73435e-05	0.999626	8.06419e-05	0.999475
rad53	5.50942e-05	0.999682	7.74787e-05	0.999552
rad46	5.10964e-05	0.999733	7.18563e-05	0.999624
rad51	4.79927e-05	0.999781	6.74918e-05	0.999692
rad35	4.64038e-05	0.999827	6.52572e-05	0.999757
rad67	4.30004e-05	0.999870	6.04712e-05	0.999818
rad34	2.22803e-05	0.999892	3.13327e-05	0.999849
PAH8+H	2.20424e-05	0.999914	3.09982e-05	0.999880
rad30	1.19659e-05	0.999926	1.68276e-05	0.999897
rad37	1.08360e-05	0.999937	1.52386e-05	0.999912
rad52	1.06405e-05	0.999948	1.49636e-05	0.999927
rad71	9.97847e-06	0.999958	1.40327e-05	0.999941
rad62	8.52399e-06	0.999966	1.19872e-05	0.999953
rad64	4.99011e-06	0.999971	7.01754e-06	0.999960
rad73	4.56449e-06	0.999976	6.41901e-06	0.999966
rad59	4.47702e-06	0.999980	6.29599e-06	0.999973
rad68syn	4.00554e-06	0.999984	5.63295e-06	0.999978
rad68anti	2.55993e-06	0.999987	3.60001e-06	0.999982
rad60syn	2.46101e-06	0.999989	3.46090e-06	0.999985
rad40syn	2.03324e-06	0.999991	2.85932e-06	0.999988
rad60anti	1.78407e-06	0.999993	2.50894e-06	0.999991
rad40anti	1.43624e-06	0.999995	2.01978e-06	0.999993
rad42	1.37800e-06	0.999996	1.93787e-06	0.999995
rad65	1.15674e-06	0.999997	1.62672e-06	0.999996
rad58	1.05023e-06	0.999998	1.47693e-06	0.999998
rad72	9.39261e-07	0.999999	1.32087e-06	0.999999
rad43	3.36095e-07	0.999999	4.72649e-07	1.000000
rad61	2.73990e-07	1.000000	3.85311e-07	1.000000
rad41	5.56844e-08	1.000000	7.83087e-08	1.000000
rad6	4.40244e-15	1.000000	6.19114e-15	1.000000
rad7	1.48082e-16	1.000000	2.08247e-16	1.000000
rad11	9.86334e-17	1.000000	1.38708e-16	1.000000
rad23	3.24975e-17	1.000000	4.57009e-17	1.000000
rad13	2.05537e-17	1.000000	2.89045e-17	1.000000
rad9	2.02648e-17	1.000000	2.84982e-17	1.000000
rad28	1.58947e-17	1.000000	2.23525e-17	1.000000
rad45	1.09628e-17	1.000000	1.54169e-17	1.000000
rad21	4.05034e-18	1.000000	5.69598e-18	1.000000
rad22	3.35980e-18	1.000000	4.72485e-18	1.000000
rad36	2.06687e-18	1.000000	2.90664e-18	1.000000
rad33	1.89985e-18	1.000000	2.67174e-18	1.000000
rad15	1.57398e-18	1.000000	2.21348e-18	1.000000
rad20	8.22772e-19	1.000000	1.15706e-18	1.000000
rad26	5.53823e-19	1.000000	7.78836e-19	1.000000
rad12	4.82938e-19	1.000000	6.79149e-19	1.000000
rad25	4.56474e-19	1.000000	6.41938e-19	1.000000
rad24	2.85392e-19	1.000000	4.01344e-19	1.000000
rad10	2.30451e-19	1.000000	3.24081e-19	1.000000
rad18	1.70015e-19	1.000000	2.39092e-19	1.000000
rad8	1.34844e-19	1.000000	1.89630e-19	1.000000
rad47	1.03449e-19	1.000000	1.45480e-19	1.000000

rad3	5.15423e-20	1.000000	7.24837e-20	1.00000
rad14	3.16322e-20	1.000000	4.44841e-20	1.00000
rad4	3.07106e-20	1.000000	4.31882e-20	1.00000
rad2	2.73581e-20	1.000000	3.84734e-20	1.00000
rad5	7.37437e-21	1.000000	1.03706e-20	1.00000
rad1	6.80548e-21	1.000000	9.57048e-21	1.00000
rad27	1.40640e-21	1.000000	1.97781e-21	1.00000

0.100000000E-05 Pa, 3250.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	8.22129e-11	(1.00)	5.87536e-11	(1.00)
Formation of rad11	1.42538e-11	(0.173)	5.21849e-12	(0.0888)
Formation of rad6	2.27549e-11	(0.277)	8.33083e-12	(0.142)
H-abstraction	4.52043e-11	(0.550)	4.52043e-11	(0.769)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.549844	0.549844	0.769388	0.769388
Phenyl+Allene	0.285349	0.835192	0.00000	0.769388
PhCH2CCH+H	0.0853725	0.920565	0.119460	0.888848
PhCHCCH2+H	0.0381839	0.958749	0.0534299	0.942278
C2H2+PhCH2	0.0128678	0.971617	0.0180057	0.960283
PhCCH+CH3	0.0101926	0.981809	0.0142623	0.974546
PAH7+H	0.00428274	0.986092	0.00599276	0.980539
Indene+H	0.00340695	0.989499	0.00476729	0.985306
PhcycC3H3_A+H	0.00292038	0.992419	0.00408643	0.989392
Ph+MeAc	0.00285191	0.995271	0.00399061	0.993383
rad19syn	0.00176005	0.997031	0.00246280	0.995846
rad54	0.000783510	0.997815	0.00109635	0.996942
rad39	0.000435199	0.998250	0.000608967	0.997551
rad19anti	0.000232598	0.998483	0.000325470	0.997876
PAH1+H	0.000210285	0.998693	0.000294248	0.998171
PAH9+H	0.000189946	0.998883	0.000265788	0.998436
rad38	0.000125074	0.999008	0.000175014	0.998611
PhCCCH3+H	0.000104499	0.999112	0.000146224	0.998758
rad56	0.000102496	0.999215	0.000143420	0.998901
rad50	9.64743e-05	0.999311	0.000134995	0.999036
rad55	8.51952e-05	0.999397	0.000119212	0.999155
rad53	6.86880e-05	0.999465	9.61137e-05	0.999251
rad70	6.67834e-05	0.999532	9.34486e-05	0.999345
PAH3+H	6.43467e-05	0.999596	9.00394e-05	0.999435
PAH10+CH3	5.80427e-05	0.999654	8.12183e-05	0.999516
rad51	5.49240e-05	0.999709	7.68541e-05	0.999593
rad46	4.80263e-05	0.999757	6.72021e-05	0.999660
rad67	4.40669e-05	0.999802	6.16619e-05	0.999722
rad35	4.33473e-05	0.999845	6.06552e-05	0.999783
PAH8+H	3.16111e-05	0.999876	4.42329e-05	0.999827
rad34	2.50786e-05	0.999902	3.50921e-05	0.999862
rad71	1.47743e-05	0.999916	2.06734e-05	0.999883
rad52	1.16170e-05	0.999928	1.62555e-05	0.999899
rad30	1.10774e-05	0.999939	1.55003e-05	0.999914
rad62	1.06705e-05	0.999950	1.49310e-05	0.999929
rad37	9.29424e-06	0.999959	1.30053e-05	0.999942
rad73	6.33743e-06	0.999965	8.86788e-06	0.999951
rad64	5.77649e-06	0.999971	8.08292e-06	0.999959
rad68syn	5.15348e-06	0.999976	7.21118e-06	0.999966
rad59	4.82486e-06	0.999981	6.75136e-06	0.999973
rad68anti	3.28964e-06	0.999984	4.60314e-06	0.999978
rad40syn	2.77792e-06	0.999987	3.88709e-06	0.999982
rad60syn	2.50929e-06	0.999990	3.51119e-06	0.999985
rad40anti	1.99952e-06	0.999992	2.79788e-06	0.999988
rad42	1.90464e-06	0.999994	2.66512e-06	0.999991
rad60anti	1.83422e-06	0.999995	2.56658e-06	0.999993
rad72	1.57365e-06	0.999997	2.20197e-06	0.999995
rad65	1.29208e-06	0.999998	1.80798e-06	0.999997
rad58	1.27682e-06	1.000000	1.78663e-06	0.999999
rad43	3.85029e-07	1.000000	5.38764e-07	1.000000
rad61	3.23853e-07	1.000000	4.53160e-07	1.000000
rad41	7.10639e-08	1.000000	9.94383e-08	1.000000
rad6	1.97009e-15	1.000000	2.75670e-15	1.000000
rad7	8.03358e-17	1.000000	1.12412e-16	1.000000
rad11	5.21686e-17	1.000000	7.29988e-17	1.000000
rad23	1.36352e-17	1.000000	1.90795e-17	1.000000
rad13	1.18525e-17	1.000000	1.65850e-17	1.000000
rad9	9.82223e-18	1.000000	1.37440e-17	1.000000
rad28	7.06592e-18	1.000000	9.88721e-18	1.000000
rad45	5.48385e-18	1.000000	7.67347e-18	1.000000
rad21	2.44315e-18	1.000000	3.41865e-18	1.000000

rad22	1.58052e-18	1.00000	2.21159e-18	1.00000
rad33	1.20474e-18	1.00000	1.68578e-18	1.00000
rad36	1.04353e-18	1.00000	1.46020e-18	1.00000
rad15	8.20337e-19	1.00000	1.14788e-18	1.00000
rad20	5.20430e-19	1.00000	7.28226e-19	1.00000
rad12	3.09374e-19	1.00000	4.32901e-19	1.00000
rad25	2.89947e-19	1.00000	4.05717e-19	1.00000
rad26	2.68050e-19	1.00000	3.75077e-19	1.00000
rad24	1.82403e-19	1.00000	2.55233e-19	1.00000
rad10	1.20062e-19	1.00000	1.68001e-19	1.00000
rad8	1.19193e-19	1.00000	1.66784e-19	1.00000
rad47	1.15640e-19	1.00000	1.61813e-19	1.00000
rad18	9.40390e-20	1.00000	1.31587e-19	1.00000
rad3	2.93950e-20	1.00000	4.11318e-20	1.00000
rad14	2.29549e-20	1.00000	3.21204e-20	1.00000
rad4	1.75935e-20	1.00000	2.46183e-20	1.00000
rad2	1.36533e-20	1.00000	1.91048e-20	1.00000
rad5	5.54025e-21	1.00000	7.75236e-21	1.00000
rad1	3.20404e-21	1.00000	4.48334e-21	1.00000
rad27	9.84680e-22	1.00000	1.37785e-21	1.00000

0.100000000E-05 Pa, 3500.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.05713e-10	(1.00)	7.59650e-11	(1.00)
Formation of rad11	1.77412e-11	(0.168)	6.37264e-12	(0.0839)
Formation of rad6	2.86822e-11	(0.271)	1.03027e-11	(0.136)
H-abstraction	5.92897e-11	(0.561)	5.92897e-11	(0.780)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.780487	0.780487
Phenyl+Allene	0.281404	0.842259	0.00000	0.780487
PhCH2CCH+H	0.0826656	0.924925	0.115037	0.895524
PhCHCCH2+H	0.0360585	0.960983	0.0501791	0.945703
C2H2+PhCH2	0.0122593	0.973242	0.0170600	0.962764
PhCCH+CH3	0.00927084	0.982513	0.0129013	0.975665
PAH7+H	0.00395025	0.986463	0.00549717	0.981162
PhcycC3H3_A+H	0.00334801	0.989811	0.00465910	0.985821
Ph+MeAc	0.00276398	0.992575	0.00384635	0.989667
Indene+H	0.00257590	0.995151	0.00358462	0.993252
rad19syn	0.00187235	0.997024	0.00260557	0.995858
rad54	0.000820548	0.997844	0.00114187	0.996999
rad39	0.000383055	0.998227	0.000533059	0.997533
PAH1+H	0.000234590	0.998462	0.000326455	0.997859
PAH19anti	0.000198628	0.998661	0.000276411	0.998135
PAH9+H	0.000165224	0.998826	0.000229927	0.998365
rad56	0.000126873	0.998953	0.000176556	0.998542
rad38	0.000111229	0.999064	0.000154787	0.998697
rad50	9.85613e-05	0.999162	0.000137158	0.998834
PhCCCH3+H	9.42424e-05	0.999257	0.000131148	0.998965
rad55	9.15803e-05	0.999348	0.000127443	0.999092
rad53	8.16793e-05	0.999430	0.000113665	0.999206
rad70	7.02694e-05	0.999500	9.77871e-05	0.999304
PAH3+H	6.99220e-05	0.999570	9.73035e-05	0.999401
rad51	5.98507e-05	0.999630	8.32882e-05	0.999484
PAH10+CH3	5.76128e-05	0.999688	8.01742e-05	0.999565
rad67	4.43734e-05	0.999732	6.17501e-05	0.999626
rad46	4.41956e-05	0.999776	6.15029e-05	0.999688
PAH8+H	4.26935e-05	0.999819	5.94123e-05	0.999747
rad35	4.02805e-05	0.999859	5.60544e-05	0.999803
rad34	2.74951e-05	0.999887	3.82622e-05	0.999842
rad71	2.01281e-05	0.999907	2.80103e-05	0.999870
rad62	1.37116e-05	0.999920	1.90811e-05	0.999889
rad52	1.21501e-05	0.999933	1.69080e-05	0.999906
rad30	1.02915e-05	0.999943	1.43216e-05	0.999920
rad73	8.16310e-06	0.999951	1.13598e-05	0.999931
rad37	7.96636e-06	0.999959	1.10860e-05	0.999942
rad64	6.47621e-06	0.999966	9.01228e-06	0.999951
rad68syn	6.33612e-06	0.999972	8.81737e-06	0.999960
rad59	5.10458e-06	0.999977	7.10355e-06	0.999967
rad68anti	4.04059e-06	0.999981	5.62289e-06	0.999973
rad40syn	3.59895e-06	0.999985	5.00830e-06	0.999978
rad42	2.66321e-06	0.999987	3.70612e-06	0.999982
rad40anti	2.63316e-06	0.999990	3.66431e-06	0.999985
rad60syn	2.53258e-06	0.999992	3.52435e-06	0.999989
rad72	2.38441e-06	0.999995	3.31814e-06	0.999992
rad60anti	1.86455e-06	0.999997	2.59471e-06	0.999995
rad58	1.49815e-06	0.999998	2.08483e-06	0.999997

rad65	1.37925e-06	1.000000	1.91936e-06	0.999999
rad43	4.42452e-07	1.000000	6.15716e-07	0.999999
rad61	3.67258e-07	1.000000	5.11077e-07	1.000000
rad41	8.98821e-08	1.000000	1.25080e-07	1.000000
rad6	9.72329e-16	1.000000	1.35309e-15	1.000000
rad7	4.66096e-17	1.000000	6.48621e-17	1.000000
rad11	2.99098e-17	1.000000	4.16225e-17	1.000000
rad13	7.28305e-18	1.000000	1.01351e-17	1.000000
rad23	6.16661e-18	1.000000	8.58146e-18	1.000000
rad9	5.09053e-18	1.000000	7.08401e-18	1.000000
rad28	3.44718e-18	1.000000	4.79710e-18	1.000000
rad45	2.90125e-18	1.000000	4.03739e-18	1.000000
rad21	1.56206e-18	1.000000	2.17377e-18	1.000000
rad22	8.11699e-19	1.000000	1.12956e-18	1.000000
rad33	7.96109e-19	1.000000	1.10787e-18	1.000000
rad36	5.56059e-19	1.000000	7.73816e-19	1.000000
rad15	4.52561e-19	1.000000	6.29785e-19	1.000000
rad20	3.56498e-19	1.000000	4.96104e-19	1.000000
rad12	2.06000e-19	1.000000	2.86671e-19	1.000000
rad25	1.93599e-19	1.000000	2.69413e-19	1.000000
rad26	1.38430e-19	1.000000	1.92640e-19	1.000000
rad47	1.23125e-19	1.000000	1.71341e-19	1.000000
rad24	1.20836e-19	1.000000	1.68155e-19	1.000000
rad8	1.05361e-19	1.000000	1.46621e-19	1.000000
rad10	6.65556e-20	1.000000	9.26191e-20	1.000000
rad18	5.60033e-20	1.000000	7.79343e-20	1.000000
rad14	1.81848e-20	1.000000	2.53061e-20	1.000000
rad3	1.79646e-20	1.000000	2.49997e-20	1.000000
rad4	1.09294e-20	1.000000	1.52094e-20	1.000000
rad2	7.50903e-21	1.000000	1.04496e-20	1.000000
rad5	4.29372e-21	1.000000	5.97514e-21	1.000000
rad1	1.69041e-21	1.000000	2.35239e-21	1.000000
rad27	7.31080e-22	1.000000	1.01737e-21	1.000000

0.100000000E-05 Pa, 3750.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.33217e-10	(1.00)	9.62711e-11	(1.00)
Formation of rad11	2.17064e-11	(0.163)	7.68279e-12	(0.0798)
Formation of rad6	3.54800e-11	(0.266)	1.25578e-11	(0.130)
H-abstraction	7.60305e-11	(0.571)	7.60305e-11	(0.790)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.570727	0.570727	0.789754	0.789754
Phenyl+Allene	0.277336	0.848063	0.000000	0.789754
PhCH2CCH+H	0.0801946	0.928257	0.110971	0.900725
PhCHCCH2+H	0.0343186	0.962576	0.0474891	0.948214
C2H2+PhCH2	0.0118838	0.974460	0.0164445	0.964658
PhCCH+CH3	0.00852836	0.982988	0.0118013	0.976459
PhcycC3H3_A+H	0.00372851	0.986717	0.00515939	0.981619
PAH7+H	0.00365085	0.990368	0.00505194	0.986671
Ph+MeAc	0.00270113	0.993069	0.00373773	0.990408
Indene+H	0.00199900	0.995068	0.00276616	0.993175
rad19syn	0.00195356	0.997021	0.00270328	0.995878
rad54	0.000841040	0.997862	0.00116381	0.997042
rad39	0.000340475	0.998203	0.000471138	0.997513
PAH1+H	0.000258935	0.998462	0.000358305	0.997871
rad19anti	0.000171610	0.998633	0.000237469	0.998109
rad56	0.000150421	0.998784	0.000208148	0.998317
PAH9+H	0.000142296	0.998926	0.000196904	0.998514
rad50	9.78214e-05	0.999024	0.000135362	0.998649
rad38	9.76287e-05	0.999121	0.000135095	0.998784
rad55	9.60227e-05	0.999217	0.000132873	0.998917
rad53	9.35446e-05	0.999311	0.000129444	0.999046
PhCCCH3+H	8.63448e-05	0.999397	0.000119481	0.999166
PAH3+H	7.46029e-05	0.999472	0.000103233	0.999269
rad70	7.27716e-05	0.999545	0.000100699	0.999370
rad51	6.27266e-05	0.999607	8.67994e-05	0.999457
PAH10+CH3	5.64592e-05	0.999664	7.81267e-05	0.999535
PAH8+H	5.49581e-05	0.999719	7.60493e-05	0.999611
rad67	4.41361e-05	0.999763	6.10741e-05	0.999672
rad46	4.00102e-05	0.999803	5.53649e-05	0.999727
rad35	3.73501e-05	0.999840	5.16839e-05	0.999779
rad34	2.95155e-05	0.999870	4.08426e-05	0.999820
rad71	2.56704e-05	0.999896	3.55219e-05	0.999855
rad62	1.78765e-05	0.999913	2.47369e-05	0.999880
rad52	1.22817e-05	0.999926	1.69950e-05	0.999897
rad73	9.90830e-06	0.999936	1.37108e-05	0.999911

rad30	9.58077e-06	0.999945	1.32576e-05	0.999924
rad68syn	7.51159e-06	0.999953	1.03943e-05	0.999934
rad64	7.08717e-06	0.999960	9.80700e-06	0.999944
rad37	6.84827e-06	0.999967	9.47639e-06	0.999954
rad59	5.31873e-06	0.999972	7.35989e-06	0.999961
rad68anti	4.78626e-06	0.999977	6.62308e-06	0.999968
rad40syn	4.46912e-06	0.999981	6.18422e-06	0.999974
rad42	3.72271e-06	0.999985	5.15138e-06	0.999979
rad72	3.33614e-06	0.999988	4.61643e-06	0.999984
rad40anti	3.31727e-06	0.999992	4.59032e-06	0.999988
rad60syn	2.53369e-06	0.999994	3.50604e-06	0.999992
rad60anti	1.87710e-06	0.999996	2.59748e-06	0.999994
rad58	1.70809e-06	0.999998	2.36361e-06	0.999997
rad65	1.42131e-06	0.999999	1.96676e-06	0.999999
rad43	5.13732e-07	1.000000	7.10883e-07	0.999999
rad61	4.03889e-07	1.000000	5.58888e-07	1.000000
rad41	1.13553e-07	1.000000	1.57130e-07	1.000000
rad6	5.20682e-16	1.000000	7.20504e-16	1.000000
rad7	2.85681e-17	1.000000	3.95317e-17	1.000000
rad11	1.83381e-17	1.000000	2.53756e-17	1.000000
rad13	4.71985e-18	1.000000	6.53121e-18	1.000000
rad23	2.97165e-18	1.000000	4.11207e-18	1.000000
rad9	2.80639e-18	1.000000	3.88339e-18	1.000000
rad28	1.81772e-18	1.000000	2.51530e-18	1.000000
rad45	1.60878e-18	1.000000	2.22617e-18	1.000000
rad21	1.04834e-18	1.000000	1.45067e-18	1.000000
rad33	5.44417e-19	1.000000	7.53345e-19	1.000000
rad22	4.48981e-19	1.000000	6.21285e-19	1.000000
rad36	3.09923e-19	1.000000	4.28860e-19	1.000000
rad15	2.63080e-19	1.000000	3.64043e-19	1.000000
rad20	2.59386e-19	1.000000	3.58930e-19	1.000000
rad12	1.42144e-19	1.000000	1.96695e-19	1.000000
rad25	1.34705e-19	1.000000	1.86401e-19	1.000000
rad47	1.26179e-19	1.000000	1.74602e-19	1.000000
rad8	9.29496e-20	1.000000	1.28621e-19	1.000000
rad24	8.25899e-20	1.000000	1.14285e-19	1.000000
rad26	7.57563e-20	1.000000	1.04829e-19	1.000000
rad10	3.88674e-20	1.000000	5.37834e-20	1.000000
rad18	3.53332e-20	1.000000	4.88931e-20	1.000000
rad14	1.56337e-20	1.000000	2.16335e-20	1.000000
rad3	1.16122e-20	1.000000	1.60685e-20	1.000000
rad4	7.24969e-21	1.000000	1.00319e-20	1.000000
rad2	4.43692e-21	1.000000	6.13964e-21	1.000000
rad5	3.42500e-21	1.000000	4.73941e-21	1.000000
rad1	9.77716e-22	1.000000	1.35293e-21	1.000000
rad27	5.73762e-22	1.000000	7.93956e-22	1.000000

0.100000000E-05 Pa, 4000.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.65008e-10	(1.00)	1.19912e-10	(1.00)
Formation of rad11	2.61707e-11	(0.159)	9.15556e-12	(0.0764)
Formation of rad6	4.31906e-11	(0.262)	1.51098e-11	(0.126)
H-abstraction	9.56470e-11	(0.580)	9.56470e-11	(0.798)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.579650	0.579650	0.797641	0.797641
Phenyl+Allene	0.273295	0.852945	0.000000	0.797641
PhCH2CCH+H	0.0779435	0.930888	0.107256	0.904897
PhCHCCH2+H	0.0328766	0.963765	0.0452408	0.950138
C2H2+PhCH2	0.0116508	0.975415	0.0160323	0.966170
PhCCH+CH3	0.00792125	0.983337	0.0109003	0.977070
PhcycC3H3_A+H	0.00405636	0.987393	0.00558187	0.982652
PAH7+H	0.00338058	0.990774	0.00465193	0.987304
Ph+MeAc	0.00265534	0.993429	0.00365394	0.990958
rad19syn	0.00200699	0.995436	0.00276178	0.993720
Indene+H	0.00158840	0.997024	0.00218576	0.995906
rad54	0.000847468	0.997872	0.00116618	0.997072
rad39	0.000304994	0.998177	0.000419695	0.997491
PAH1+H	0.000284127	0.998461	0.000390980	0.997882
rad56	0.000172242	0.998633	0.000237017	0.998119
rad19anti	0.000149971	0.998783	0.000206372	0.998326
PAH9+H	0.000121736	0.998905	0.000167518	0.998493
rad53	0.000103935	0.999009	0.000143023	0.998636
rad55	9.87033e-05	0.999108	0.000135823	0.998772
rad50	9.49261e-05	0.999203	0.000130625	0.998903
rad38	8.48536e-05	0.999287	0.000116765	0.999020
PhCCCH3+H	8.02193e-05	0.999368	0.000110388	0.999130

PAH3+H	7.84218e-05	0.999446	0.000107914	0.999238
rad70	7.43978e-05	0.999520	0.000102377	0.999340
PAH8+H	6.80299e-05	0.999588	9.36140e-05	0.999434
rad51	6.37407e-05	0.999652	8.77122e-05	0.999522
PAH10+CH3	5.48776e-05	0.999707	7.55158e-05	0.999597
rad67	4.35168e-05	0.999751	5.98821e-05	0.999657
rad46	3.57792e-05	0.999786	4.92350e-05	0.999706
rad35	3.46400e-05	0.999821	4.76673e-05	0.999754
rad34	3.11445e-05	0.999852	4.28572e-05	0.999797
rad71	3.10563e-05	0.999883	4.27358e-05	0.999839
rad62	2.32398e-05	0.999906	3.19798e-05	0.999871
rad52	1.20851e-05	0.999919	1.66300e-05	0.999888
rad73	1.14710e-05	0.999930	1.57849e-05	0.999904
rad30	8.93299e-06	0.999939	1.22925e-05	0.999916
rad68syn	8.64434e-06	0.999948	1.18952e-05	0.999928
rad64	7.61305e-06	0.999955	1.04761e-05	0.999939
rad37	5.91727e-06	0.999961	8.14263e-06	0.999947
rad68anti	5.50424e-06	0.999967	7.57424e-06	0.999954
rad59	5.47385e-06	0.999972	7.53243e-06	0.999962
rad40syn	5.36170e-06	0.999977	7.37810e-06	0.999969
rad42	5.12142e-06	0.999983	7.04750e-06	0.999976
rad72	4.37871e-06	0.999987	6.02543e-06	0.999982
rad40anti	4.03125e-06	0.999991	5.54731e-06	0.999988
rad60syn	2.51669e-06	0.999993	3.46315e-06	0.999991
rad58	1.90267e-06	0.999995	2.61822e-06	0.999994
rad60anti	1.87487e-06	0.999997	2.57996e-06	0.999996
rad65	1.42564e-06	0.999999	1.96179e-06	0.999998
rad43	6.01849e-07	0.999999	8.28191e-07	0.999999
rad61	4.34037e-07	1.000000	5.97267e-07	1.000000
rad41	1.43043e-07	1.000000	1.96838e-07	1.000000
rad6	2.98677e-16	1.000000	4.11002e-16	1.000000
rad7	1.83269e-17	1.000000	2.52192e-17	1.000000
rad11	1.18912e-17	1.000000	1.63632e-17	1.000000
rad13	3.19990e-18	1.000000	4.40329e-18	1.000000
rad9	1.63626e-18	1.000000	2.25163e-18	1.000000
rad23	1.51208e-18	1.000000	2.08074e-18	1.000000
rad28	1.02385e-18	1.000000	1.40890e-18	1.000000
rad45	9.28352e-19	1.000000	1.27749e-18	1.000000
rad21	7.32814e-19	1.000000	1.00841e-18	1.000000
rad33	3.83235e-19	1.000000	5.27360e-19	1.000000
rad22	2.64532e-19	1.000000	3.64016e-19	1.000000
rad20	1.97582e-19	1.000000	2.71888e-19	1.000000
rad36	1.79419e-19	1.000000	2.46894e-19	1.000000
rad15	1.60341e-19	1.000000	2.20642e-19	1.000000
rad47	1.25502e-19	1.000000	1.72700e-19	1.000000
rad12	1.01281e-19	1.000000	1.39370e-19	1.000000
rad25	9.69849e-20	1.000000	1.33459e-19	1.000000
rad8	8.17489e-20	1.000000	1.12493e-19	1.000000
rad24	5.80458e-20	1.000000	7.98754e-20	1.000000
rad26	4.36740e-20	1.000000	6.00984e-20	1.000000
rad10	2.37521e-20	1.000000	3.26846e-20	1.000000
rad18	2.33495e-20	1.000000	3.21308e-20	1.000000
rad14	1.43353e-20	1.000000	1.97264e-20	1.000000
rad3	7.86194e-21	1.000000	1.08186e-20	1.000000
rad4	5.07065e-21	1.000000	6.97759e-21	1.000000
rad5	2.80285e-21	1.000000	3.85694e-21	1.000000
rad2	2.77243e-21	1.000000	3.81508e-21	1.000000
rad1	6.09340e-22	1.000000	8.38495e-22	1.000000
rad27	4.74794e-22	1.000000	6.53351e-22	1.000000

0.100000000E-06 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.56740e-51 (1.00)	1.56740e-51 (1.00)
Formation of rad11	1.56740e-51 (1.000)	1.56740e-51 (1.000)
Formation of rad6	3.73945e-60 (2.39e-09)	3.73945e-60 (2.39e-09)
H-abstraction	1.53631e-76 (9.80e-26)	1.53631e-76 (9.80e-26)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987369	0.987369	0.987369	0.987369
C2H2+PhCH2	0.00820954	0.995579	0.00820954	0.995579
PhCCH+CH3	0.00218811	0.997767	0.00218811	0.997767
PhCHCCH2+H	0.00138347	0.999150	0.00138347	0.999150
PhCCCH3+H	0.000827245	0.999977	0.000827245	0.999977
Ph+MeAc	1.00039e-05	0.999987	1.00039e-05	0.999987
rad8	6.83249e-06	0.999994	6.83249e-06	0.999994
rad9	3.09720e-06	0.999997	3.09720e-06	0.999997
PAH7+H	1.76170e-06	0.999999	1.76170e-06	0.999999

rad30	4.36830e-07	0.999999	4.36830e-07	0.999999
rad12	2.10741e-07	1.000000	2.10741e-07	1.000000
rad39	1.69731e-07	1.000000	1.69731e-07	1.000000
PAH9+H	8.84404e-08	1.000000	8.84404e-08	1.000000
rad15	7.82157e-08	1.000000	7.82157e-08	1.000000
rad35	4.65496e-08	1.000000	4.65496e-08	1.000000
rad38	2.27274e-08	1.000000	2.27274e-08	1.000000
Phenyl+Allene	1.59134e-08	1.000000	0.000000	1.000000
rad6	1.34923e-09	1.000000	1.34923e-09	1.000000
rad46	1.47640e-10	1.000000	1.47640e-10	1.000000
rad28	2.21636e-11	1.000000	2.21636e-11	1.000000
rad60syn	3.54196e-12	1.000000	3.54196e-12	1.000000
rad26	2.45060e-12	1.000000	2.45060e-12	1.000000
rad2	4.67802e-13	1.000000	4.67802e-13	1.000000
rad7	9.72936e-14	1.000000	9.72936e-14	1.000000
rad1	2.95662e-14	1.000000	2.95662e-14	1.000000
rad10	2.39345e-14	1.000000	2.39345e-14	1.000000
rad11	2.37711e-14	1.000000	2.37711e-14	1.000000
rad3	3.10628e-15	1.000000	3.10628e-15	1.000000
rad4	1.57038e-15	1.000000	1.57038e-15	1.000000
rad13	5.40911e-16	1.000000	5.40911e-16	1.000000
rad14	1.84853e-16	1.000000	1.84853e-16	1.000000
rad25	8.93122e-17	1.000000	8.93122e-17	1.000000
rad60anti	4.67472e-17	1.000000	4.67472e-17	1.000000
rad27	1.09692e-17	1.000000	1.09692e-17	1.000000
rad33	1.02379e-18	1.000000	1.02379e-18	1.000000
PhCH2CCH+H	7.57199e-19	1.000000	7.57199e-19	1.000000
rad37	6.81196e-20	1.000000	6.81196e-20	1.000000
rad31	8.48150e-23	1.000000	8.48150e-23	1.000000
rad5	4.36950e-23	1.000000	4.36950e-23	1.000000
rad20	6.79069e-24	1.000000	6.79069e-24	1.000000
rad21	5.14703e-24	1.000000	5.14703e-24	1.000000
Benzene+2-propynyl	9.80165e-26	1.000000	9.80165e-26	1.000000
rad18	2.29424e-26	1.000000	2.29424e-26	1.000000
rad23	1.18607e-26	1.000000	1.18607e-26	1.000000
rad22	2.47288e-27	1.000000	2.47288e-27	1.000000
PAH3+H	7.71799e-28	1.000000	7.71799e-28	1.000000
rad59	4.13282e-28	1.000000	4.13282e-28	1.000000
rad50	1.66754e-28	1.000000	1.66754e-28	1.000000
rad45	7.38420e-29	1.000000	7.38420e-29	1.000000
rad36	4.59978e-30	1.000000	4.59978e-30	1.000000
rad24	1.11604e-30	1.000000	1.11604e-30	1.000000
rad19syn	6.06399e-37	1.000000	6.06399e-37	1.000000
rad52	7.29603e-41	1.000000	7.29603e-41	1.000000
rad54	7.00896e-42	1.000000	7.00896e-42	1.000000
PAH10+CH3	4.56660e-42	1.000000	4.56660e-42	1.000000
rad43	1.05385e-42	1.000000	1.05385e-42	1.000000
rad62	3.14254e-45	1.000000	3.14254e-45	1.000000
rad51	3.50814e-48	1.000000	3.50814e-48	1.000000
rad70	3.76929e-51	1.000000	3.76929e-51	1.000000
PhcycC3H3_A+H	1.59636e-51	1.000000	1.59636e-51	1.000000
rad55	8.59569e-52	1.000000	8.59569e-52	1.000000
rad65	2.35368e-53	1.000000	2.35368e-53	1.000000
rad58	5.36097e-55	1.000000	5.36097e-55	1.000000
PAH1+H	7.18888e-57	1.000000	7.18888e-57	1.000000
rad34	4.75929e-59	1.000000	4.75929e-59	1.000000
rad42	3.39505e-63	1.000000	3.39505e-63	1.000000
rad41	4.26030e-64	1.000000	4.26030e-64	1.000000
rad47	1.31464e-68	1.000000	1.31464e-68	1.000000

0.100000000E-06 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.03204e-39 (1.00)	5.03204e-39 (1.00)
Formation of rad11	5.03203e-39 (1.000)	5.03203e-39 (1.000)
Formation of rad6	9.92181e-45 (1.97e-06)	9.92181e-45 (1.97e-06)
H-abstraction	3.33191e-55 (6.62e-17)	3.33191e-55 (6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987259	0.987259	0.987259	0.987259
C2H2+PhCH2	0.00826499	0.995524	0.00826499	0.995524
PhCCH+CH3	0.00221651	0.997740	0.00221651	0.997740
PhCHCCH2+H	0.00139872	0.999139	0.00139872	0.999139
PhCCCH3+H	0.000837447	0.999977	0.000837447	0.999977
Ph+MeAc	1.04458e-05	0.999987	1.04458e-05	0.999987
rad8	6.94253e-06	0.999994	6.94253e-06	0.999994
rad9	3.16617e-06	0.999997	3.16617e-06	0.999997
PAH7+H	1.80679e-06	0.999999	1.80679e-06	0.999999

rad30	4.41009e-07	0.999999	4.41009e-07	0.999999
rad12	2.16531e-07	1.000000	2.16531e-07	1.000000
rad39	1.75885e-07	1.000000	1.75885e-07	1.000000
PAH9+H	8.93904e-08	1.000000	8.93904e-08	1.000000
rad15	7.91321e-08	1.000000	7.91321e-08	1.000000
rad35	4.69942e-08	1.000000	4.69942e-08	1.000000
rad38	2.29955e-08	1.000000	2.29955e-08	1.000000
Phenyl+Allene	2.15093e-08	1.000000	0.000000	1.000000
rad6	2.24643e-10	1.000000	2.24643e-10	1.000000
rad46	1.50492e-10	1.000000	1.50492e-10	1.000000
rad28	6.48970e-12	1.000000	6.48970e-12	1.000000
rad60syn	3.52821e-12	1.000000	3.52821e-12	1.000000
rad26	8.41218e-13	1.000000	8.41218e-13	1.000000
rad2	7.92285e-14	1.000000	7.92285e-14	1.000000
rad7	1.62037e-14	1.000000	1.62037e-14	1.000000
rad1	5.01035e-15	1.000000	5.01035e-15	1.000000
rad10	4.06191e-15	1.000000	4.06191e-15	1.000000
rad11	3.95988e-15	1.000000	3.95988e-15	1.000000
rad60anti	6.00906e-16	1.000000	6.00906e-16	1.000000
rad3	5.38954e-16	1.000000	5.38954e-16	1.000000
rad4	2.72509e-16	1.000000	2.72509e-16	1.000000
rad13	9.01021e-17	1.000000	9.01021e-17	1.000000
rad14	8.74661e-17	1.000000	8.74661e-17	1.000000
Benzene+2-propynyl	6.62139e-17	1.000000	6.62139e-17	1.000000
rad25	4.22841e-17	1.000000	4.22841e-17	1.000000
rad27	4.97462e-18	1.000000	4.97462e-18	1.000000
PhCH2CCH+H	4.90579e-19	1.000000	4.90579e-19	1.000000
rad33	1.71195e-19	1.000000	1.71195e-19	1.000000
rad37	4.44082e-20	1.000000	4.44082e-20	1.000000
rad31	3.89595e-23	1.000000	3.89595e-23	1.000000
rad5	2.85714e-23	1.000000	2.85714e-23	1.000000
rad20	2.50588e-24	1.000000	2.50588e-24	1.000000
rad21	1.91845e-24	1.000000	1.91845e-24	1.000000
rad18	7.85689e-27	1.000000	7.85689e-27	1.000000
rad23	2.04980e-27	1.000000	2.04980e-27	1.000000
rad22	7.08089e-28	1.000000	7.08089e-28	1.000000
PAH3+H	5.08404e-28	1.000000	5.08404e-28	1.000000
rad59	2.72198e-28	1.000000	2.72198e-28	1.000000
rad50	1.09370e-28	1.000000	1.09370e-28	1.000000
rad45	1.29239e-29	1.000000	1.29239e-29	1.000000
rad36	8.04810e-31	1.000000	8.04810e-31	1.000000
rad24	5.37118e-31	1.000000	5.37118e-31	1.000000
rad19syn	4.15722e-37	1.000000	4.15722e-37	1.000000
rad52	4.98856e-41	1.000000	4.98856e-41	1.000000
rad54	4.88084e-42	1.000000	4.88084e-42	1.000000
PAH10+CH3	3.19261e-42	1.000000	3.19261e-42	1.000000
rad43	7.36643e-43	1.000000	7.36643e-43	1.000000
rad62	2.21311e-45	1.000000	2.21311e-45	1.000000
rad51	2.46516e-48	1.000000	2.46516e-48	1.000000
rad70	2.70867e-51	1.000000	2.70867e-51	1.000000
PhcycC3H3_A+H	1.14959e-51	1.000000	1.14959e-51	1.000000
rad55	6.18873e-52	1.000000	6.18873e-52	1.000000
rad65	1.67991e-53	1.000000	1.67991e-53	1.000000
rad58	3.86765e-55	1.000000	3.86765e-55	1.000000
PAH1+H	5.28180e-57	1.000000	5.28180e-57	1.000000
rad34	3.51242e-59	1.000000	3.51242e-59	1.000000
rad42	2.54130e-63	1.000000	2.54130e-63	1.000000
rad41	3.21394e-64	1.000000	3.21394e-64	1.000000
rad47	4.77258e-69	1.000000	4.77258e-69	1.000000

0.100000000E-06 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.35697e-33 (1.00)	9.35697e-33 (1.00)
Formation of rad11	9.35644e-33 (1.000)	9.35644e-33 (1.000)
Formation of rad6	5.26139e-37 (5.62e-05)	5.26138e-37 (5.62e-05)
H-abstraction	1.44763e-44 (1.55e-12)	1.44763e-44 (1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987033	0.987033	0.987033	0.987033
C2H2+PhCH2	0.00837833	0.995411	0.00837833	0.995411
PhCCH+CH3	0.00227504	0.997686	0.00227504	0.997686
PhCHCCH2+H	0.00143004	0.999116	0.00143004	0.999116
PhCCCH3+H	0.000858419	0.999975	0.000858419	0.999975
Ph+MeAc	1.13931e-05	0.999986	1.13931e-05	0.999986
rad8	7.17148e-06	0.999993	7.17148e-06	0.999993
rad9	3.31184e-06	0.999997	3.31184e-06	0.999997
PAH7+H	1.90101e-06	0.999999	1.90101e-06	0.999999

rad30	4.49603e-07	0.999999	4.49603e-07	0.999999
rad12	2.28351e-07	0.999999	2.28351e-07	0.999999
rad39	1.89249e-07	0.999999	1.89249e-07	0.999999
PAH9+H	9.13514e-08	1.000000	9.13514e-08	1.000000
rad15	8.10250e-08	1.000000	8.10250e-08	1.000000
rad35	4.79101e-08	1.000000	4.79101e-08	1.000000
Phenyl+Allene	3.50625e-08	1.000000	0.000000	1.000000
rad38	2.35499e-08	1.000000	2.35499e-08	1.000000
rad46	1.56511e-10	1.000000	1.56511e-10	1.000000
rad6	8.26008e-11	1.000000	8.26008e-11	1.000000
rad60syn	3.61737e-12	1.000000	3.61737e-12	1.000000
rad28	3.29554e-12	1.000000	3.29554e-12	1.000000
Benzene+2-propynyl	1.54712e-12	1.000000	1.54712e-12	1.000000
rad26	4.69688e-13	1.000000	4.69688e-13	1.000000
rad2	3.00938e-14	1.000000	3.00938e-14	1.000000
rad60anti	1.04594e-14	1.000000	1.04594e-14	1.000000
rad7	5.96185e-15	1.000000	5.96185e-15	1.000000
rad1	1.90544e-15	1.000000	1.90544e-15	1.000000
rad10	1.54271e-15	1.000000	1.54271e-15	1.000000
rad11	1.45746e-15	1.000000	1.45746e-15	1.000000
rad3	2.08202e-16	1.000000	2.08202e-16	1.000000
rad4	1.05305e-16	1.000000	1.05305e-16	1.000000
rad14	5.59245e-17	1.000000	5.59245e-17	1.000000
rad13	3.31630e-17	1.000000	3.31630e-17	1.000000
rad25	2.71057e-17	1.000000	2.71057e-17	1.000000
rad27	3.15523e-18	1.000000	3.15523e-18	1.000000
PhCH2CCH+H	8.60132e-19	1.000000	8.60132e-19	1.000000
rad33	6.33069e-20	1.000000	6.33069e-20	1.000000
rad37	5.67935e-20	1.000000	5.67935e-20	1.000000
rad5	3.62080e-23	1.000000	3.62080e-23	1.000000
rad31	2.62756e-23	1.000000	2.62756e-23	1.000000
rad20	1.54901e-24	1.000000	1.54901e-24	1.000000
rad21	1.19116e-24	1.000000	1.19116e-24	1.000000
rad18	4.69896e-27	1.000000	4.69896e-27	1.000000
rad23	8.70906e-28	1.000000	8.70906e-28	1.000000
PAH3+H	6.51116e-28	1.000000	6.51116e-28	1.000000
rad22	3.94314e-28	1.000000	3.94314e-28	1.000000
rad59	3.48492e-28	1.000000	3.48492e-28	1.000000
rad50	1.38835e-28	1.000000	1.38835e-28	1.000000
rad45	5.53279e-30	1.000000	5.53279e-30	1.000000
rad24	3.69324e-31	1.000000	3.69324e-31	1.000000
rad36	3.44335e-31	1.000000	3.44335e-31	1.000000
rad19syn	5.79439e-37	1.000000	5.79439e-37	1.000000
rad52	6.91433e-41	1.000000	6.91433e-41	1.000000
rad54	7.03056e-42	1.000000	7.03056e-42	1.000000
PAH10+CH3	4.65295e-42	1.000000	4.65295e-42	1.000000
rad43	1.07322e-42	1.000000	1.07322e-42	1.000000
rad62	3.27067e-45	1.000000	3.27067e-45	1.000000
rad51	3.61910e-48	1.000000	3.61910e-48	1.000000
rad70	4.16773e-51	1.000000	4.16773e-51	1.000000
PhcycC3H3_A+H	1.77664e-51	1.000000	1.77664e-51	1.000000
rad55	9.56022e-52	1.000000	9.56022e-52	1.000000
rad65	2.54822e-53	1.000000	2.54822e-53	1.000000
rad58	6.00022e-55	1.000000	6.00023e-55	1.000000
PAH1+H	8.51459e-57	1.000000	8.51459e-57	1.000000
rad34	5.71452e-59	1.000000	5.71452e-59	1.000000
rad42	4.28035e-63	1.000000	4.28035e-63	1.000000
rad41	5.57001e-64	1.000000	5.57001e-64	1.000000
rad47	5.13067e-69	1.000000	5.13067e-69	1.000000

0.100000000E-06 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.52690e-29 (1.00)	5.52690e-29 (1.00)
Formation of rad11	5.52459e-29 (1.000)	5.52459e-29 (1.000)
Formation of rad6	2.30840e-32 (0.000418)	2.30840e-32 (0.000418)
H-abstraction	3.35357e-38 (6.07e-10)	3.35357e-38 (6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.986715	0.986715	0.986715	0.986715
C2H2+PhCH2	0.00853717	0.995252	0.00853717	0.995252
PhCCH+CH3	0.00235801	0.997610	0.00235801	0.997610
PhCHCCH2+H	0.00147423	0.999084	0.00147423	0.999084
PhCCCH3+H	0.000888061	0.999972	0.000888061	0.999972
Ph+MeAc	1.28086e-05	0.999985	1.28086e-05	0.999985
rad8	7.50004e-06	0.999993	7.50004e-06	0.999993
rad9	3.52469e-06	0.999996	3.52469e-06	0.999996
PAH7+H	2.03731e-06	0.999998	2.03731e-06	0.999998

rad30	4.61739e-07	0.999999	4.61739e-07	0.999999
rad12	2.44979e-07	0.999999	2.44979e-07	0.999999
rad39	2.09407e-07	0.999999	2.09407e-07	0.999999
PAH9+H	9.41345e-08	0.999999	9.41345e-08	0.999999
rad15	8.37155e-08	0.999999	8.37155e-08	0.999999
Phenyl+Allene	5.85966e-08	0.999999	0.00000	0.999999
rad35	4.92061e-08	1.000000	4.92061e-08	0.999999
rad38	2.43389e-08	1.000000	2.43389e-08	1.000000
Benzene+2-propynyl	6.06773e-10	1.000000	6.06773e-10	1.000000
rad46	1.65303e-10	1.000000	1.65303e-10	1.000000
rad6	4.06045e-11	1.000000	4.06045e-11	1.000000
rad60syn	3.93733e-12	1.000000	3.93733e-12	1.000000
rad28	2.02591e-12	1.000000	2.02591e-12	1.000000
rad26	3.08296e-13	1.000000	3.08296e-13	1.000000
rad60anti	5.62146e-14	1.000000	5.62146e-14	1.000000
rad2	1.52049e-14	1.000000	1.52049e-14	1.000000
rad7	2.93335e-15	1.000000	2.93335e-15	1.000000
rad1	9.64421e-16	1.000000	9.64421e-16	1.000000
rad10	7.85045e-16	1.000000	7.85045e-16	1.000000
rad11	7.17403e-16	1.000000	7.17403e-16	1.000000
PhCH2CCH+H	1.28931e-16	1.000000	1.28931e-16	1.000000
rad3	1.09809e-16	1.000000	1.09809e-16	1.000000
rad4	5.55642e-17	1.000000	5.55642e-17	1.000000
rad14	3.98212e-17	1.000000	3.98212e-17	1.000000
rad25	1.93742e-17	1.000000	1.93742e-17	1.000000
rad13	1.63251e-17	1.000000	1.63251e-17	1.000000
rad37	3.16175e-18	1.000000	3.16175e-18	1.000000
rad27	2.24946e-18	1.000000	2.24946e-18	1.000000
rad33	3.13339e-20	1.000000	3.13339e-20	1.000000
rad5	1.06367e-21	1.000000	1.06367e-21	1.000000
rad31	2.05604e-23	1.000000	2.05604e-23	1.000000
rad20	1.13122e-24	1.000000	1.13122e-24	1.000000
rad21	8.72843e-25	1.000000	8.72843e-25	1.000000
rad18	3.34997e-27	1.000000	3.34997e-27	1.000000
PAH3+H	3.16646e-27	1.000000	3.16646e-27	1.000000
rad59	1.69664e-27	1.000000	1.69664e-27	1.000000
rad50	1.52411e-27	1.000000	1.52411e-27	1.000000
rad23	5.02612e-28	1.000000	5.02612e-28	1.000000
rad22	2.69542e-28	1.000000	2.69542e-28	1.000000
rad45	3.26849e-30	1.000000	3.26849e-30	1.000000
rad24	2.92740e-31	1.000000	2.92740e-31	1.000000
rad36	2.03256e-31	1.000000	2.03256e-31	1.000000
rad19syn	1.57380e-36	1.000000	1.57380e-36	1.000000
rad52	1.86332e-40	1.000000	1.86332e-40	1.000000
rad54	2.00032e-41	1.000000	2.00032e-41	1.000000
PAH10+CH3	1.36023e-41	1.000000	1.36023e-41	1.000000
rad43	3.13575e-42	1.000000	3.13575e-42	1.000000
rad62	9.71628e-45	1.000000	9.71628e-45	1.000000
rad51	1.05783e-47	1.000000	1.05783e-47	1.000000
rad70	1.30155e-50	1.000000	1.30155e-50	1.000000
PhcycC3H3_A+H	5.58302e-51	1.000000	5.58302e-51	1.000000
rad55	3.00233e-51	1.000000	3.00233e-51	1.000000
rad65	7.80036e-53	1.000000	7.80036e-53	1.000000
rad58	1.89574e-54	1.000000	1.89574e-54	1.000000
PAH1+H	2.84174e-56	1.000000	2.84174e-56	1.000000
rad34	1.93099e-58	1.000000	1.93099e-58	1.000000
rad42	1.56105e-62	1.000000	1.56105e-62	1.000000
rad41	2.24827e-63	1.000000	2.24827e-63	1.000000
rad47	1.27938e-68	1.000000	1.27938e-68	1.000000

0.100000000E-06 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.83429e-26 (1.00)	1.83429e-26 (1.00)
Formation of rad11	1.83139e-26 (0.998)	1.83139e-26 (0.998)
Formation of rad6	2.90471e-29 (0.00158)	2.90471e-29 (0.00158)
H-abstraction	5.71259e-34 (3.11e-08)	5.71259e-34 (3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.986327	0.986327	0.986328	0.986328
C2H2+PhCH2	0.00872967	0.995057	0.00872967	0.995058
PhCCH+CH3	0.00246019	0.997517	0.00246019	0.997518
PhCHCCH2+H	0.00152831	0.999045	0.00152831	0.999046
PhCCCH3+H	0.000924419	0.999970	0.000924419	0.999971
Ph+MeAc	1.46738e-05	0.999984	1.46738e-05	0.999985
rad8	7.90964e-06	0.999992	7.90964e-06	0.999993
rad9	3.79565e-06	0.999996	3.79565e-06	0.999997
PAH7+H	2.20983e-06	0.999998	2.20983e-06	0.999999

rad30	4.76596e-07	0.999999	4.76596e-07	1.000000
rad12	2.65606e-07	0.999999	2.65606e-07	1.000000
rad39	2.35925e-07	0.999999	2.35925e-07	1.000000
PAH9+H	9.75647e-08	0.999999	9.75647e-08	1.000000
Phenyl+Allene	9.48777e-08	0.999999	0.000000	1.000000
rad15	8.70373e-08	0.999999	8.70373e-08	1.000000
rad35	5.07971e-08	0.999999	5.07971e-08	1.000000
Benzene+2-propynyl	3.11432e-08	0.999999	3.11432e-08	1.000000
rad38	2.53149e-08	1.000000	2.53149e-08	1.000000
rad46	1.76523e-10	1.000000	1.76523e-10	1.000000
rad6	2.31998e-11	1.000000	2.31998e-11	1.000000
rad60syn	4.52310e-12	1.000000	4.52310e-12	1.000000
rad28	1.37074e-12	1.000000	1.37074e-12	1.000000
rad26	2.19080e-13	1.000000	2.19080e-13	1.000000
rad60anti	1.68173e-13	1.000000	1.68173e-13	1.000000
rad2	9.19912e-15	1.000000	9.19912e-15	1.000000
PhCH2CCH+H	8.28584e-15	1.000000	8.28584e-15	1.000000
rad7	1.67785e-15	1.000000	1.67785e-15	1.000000
rad1	5.84745e-16	1.000000	5.84745e-16	1.000000
rad37	5.32433e-16	1.000000	5.32433e-16	1.000000
rad10	4.69539e-16	1.000000	4.69539e-16	1.000000
rad11	4.10545e-16	1.000000	4.10545e-16	1.000000
rad3	6.65654e-17	1.000000	6.65654e-17	1.000000
rad4	3.37012e-17	1.000000	3.37012e-17	1.000000
rad14	2.99931e-17	1.000000	2.99931e-17	1.000000
rad25	1.46599e-17	1.000000	1.46599e-17	1.000000
rad13	9.34357e-18	1.000000	9.34357e-18	1.000000
rad27	1.70383e-18	1.000000	1.70383e-18	1.000000
rad5	2.79369e-19	1.000000	2.79369e-19	1.000000
rad33	1.80449e-20	1.000000	1.80449e-20	1.000000
rad31	1.75397e-23	1.000000	1.75397e-23	1.000000
PAH3+H	2.19751e-24	1.000000	2.19751e-24	1.000000
rad59	1.18809e-24	1.000000	1.18809e-24	1.000000
rad20	8.98546e-25	1.000000	8.98546e-25	1.000000
rad50	7.41836e-25	1.000000	7.41836e-25	1.000000
rad21	6.95551e-25	1.000000	6.95551e-25	1.000000
rad18	2.60281e-27	1.000000	2.60281e-27	1.000000
rad23	3.39830e-28	1.000000	3.39830e-28	1.000000
rad22	2.03033e-28	1.000000	2.03033e-28	1.000000
rad45	2.25461e-30	1.000000	2.25461e-30	1.000000
rad24	2.51460e-31	1.000000	2.51460e-31	1.000000
rad36	1.40090e-31	1.000000	1.40090e-31	1.000000
rad19syn	1.05395e-35	1.000000	1.05395e-35	1.000000
rad52	1.23624e-39	1.000000	1.23624e-39	1.000000
rad54	1.41683e-40	1.000000	1.41683e-40	1.000000
PAH10+CH3	1.00854e-40	1.000000	1.00854e-40	1.000000
rad43	2.32384e-41	1.000000	2.32384e-41	1.000000
rad62	7.33399e-44	1.000000	7.33399e-44	1.000000
rad51	7.74326e-47	1.000000	7.74326e-47	1.000000
rad70	1.03225e-49	1.000000	1.03225e-49	1.000000
PhcycC3H3_A+H	4.46175e-50	1.000000	4.46175e-50	1.000000
rad55	2.39740e-50	1.000000	2.39740e-50	1.000000
rad65	6.04016e-52	1.000000	6.04016e-52	1.000000
rad58	1.52499e-53	1.000000	1.52499e-53	1.000000
PAH1+H	2.44792e-55	1.000000	2.44792e-55	1.000000
rad34	1.68701e-57	1.000000	1.68701e-57	1.000000
rad42	1.65528e-61	1.000000	1.65528e-61	1.000000
rad41	3.15233e-62	1.000000	3.15233e-62	1.000000
rad47	8.73151e-68	1.000000	8.73151e-68	1.000000

0.100000000E-06 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17336e-24 (1.00)	1.17336e-24 (1.00)
Formation of rad11	1.16857e-24 (0.996)	1.16857e-24 (0.996)
Formation of rad6	4.79505e-27 (0.00409)	4.79505e-27 (0.00409)
H-abstraction	5.89821e-31 (5.03e-07)	5.89821e-31 (5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.985878	0.985878	0.985879	0.985879
C2H2+PhCH2	0.00895056	0.994828	0.00895056	0.994829
PhCCH+CH3	0.00257971	0.997408	0.00257971	0.997409
PhCHCCH2+H	0.00159114	0.998999	0.00159114	0.999000
PhCCCH3+H	0.000966747	0.999966	0.000966747	0.999967
Ph+MeAc	1.70353e-05	0.999983	1.70353e-05	0.999984
rad8	8.39424e-06	0.999991	8.39424e-06	0.999992
rad9	4.12376e-06	0.999995	4.12376e-06	0.999996
PAH7+H	2.41850e-06	0.999998	2.41850e-06	0.999999

Benzene+2-propynyl	5.02676e-07	0.999998	5.02676e-07	0.999999
rad30	4.93849e-07	0.999999	4.93849e-07	1.000000
rad12	2.90272e-07	0.999999	2.90272e-07	1.000000
rad39	2.69197e-07	0.999999	2.69197e-07	1.000000
Phenyl+Allene	1.48355e-07	0.999999	0.000000	1.000000
PAH9+H	1.01582e-07	0.999999	1.01582e-07	1.000000
rad15	9.09326e-08	1.000000	9.09326e-08	1.000000
rad35	5.26506e-08	1.000000	5.26507e-08	1.000000
rad38	2.64629e-08	1.000000	2.64629e-08	1.000000
rad46	1.90194e-10	1.000000	1.90194e-10	1.000000
rad6	1.45360e-11	1.000000	1.45360e-11	1.000000
rad60syn	5.38094e-12	1.000000	5.38094e-12	1.000000
rad28	9.82527e-13	1.000000	9.82527e-13	1.000000
rad60anti	3.67479e-13	1.000000	3.67479e-13	1.000000
PhCH2CCH+H	1.68867e-13	1.000000	1.68867e-13	1.000000
rad26	1.63216e-13	1.000000	1.63216e-13	1.000000
rad37	2.03333e-14	1.000000	2.03333e-14	1.000000
rad2	5.93747e-15	1.000000	5.93747e-15	1.000000
rad7	1.05259e-15	1.000000	1.05259e-15	1.000000
rad1	3.78358e-16	1.000000	3.78358e-16	1.000000
rad10	3.08276e-16	1.000000	3.08276e-16	1.000000
rad11	2.57689e-16	1.000000	2.57689e-16	1.000000
rad3	4.48439e-17	1.000000	4.48439e-17	1.000000
rad14	2.33989e-17	1.000000	2.33989e-17	1.000000
rad4	2.27184e-17	1.000000	2.27184e-17	1.000000
rad5	1.57223e-17	1.000000	1.57223e-17	1.000000
rad25	1.14961e-17	1.000000	1.14961e-17	1.000000
rad13	5.86576e-18	1.000000	5.86576e-18	1.000000
rad27	1.34022e-18	1.000000	1.34022e-18	1.000000
rad33	1.14074e-20	1.000000	1.14074e-20	1.000000
PAH3+H	3.72414e-22	1.000000	3.72414e-22	1.000000
rad59	1.99083e-22	1.000000	1.99083e-22	1.000000
rad50	7.20224e-23	1.000000	7.20224e-23	1.000000
rad31	1.58825e-23	1.000000	1.58825e-23	1.000000
rad20	7.51633e-25	1.000000	7.51634e-25	1.000000
rad21	5.83739e-25	1.000000	5.83739e-25	1.000000
rad18	2.12954e-27	1.000000	2.12954e-27	1.000000
rad23	2.54443e-28	1.000000	2.54443e-28	1.000000
rad22	1.61836e-28	1.000000	1.61836e-28	1.000000
rad45	1.71177e-30	1.000000	1.71177e-30	1.000000
rad24	2.27761e-31	1.000000	2.27761e-31	1.000000
rad36	1.06278e-31	1.000000	1.06278e-31	1.000000
rad19syn	2.18195e-34	1.000000	2.18195e-34	1.000000
rad52	2.53321e-38	1.000000	2.53321e-38	1.000000
rad54	3.12257e-39	1.000000	3.12257e-39	1.000000
PAH10+CH3	2.29099e-39	1.000000	2.29099e-39	1.000000
rad43	5.27573e-40	1.000000	5.27573e-40	1.000000
rad62	1.72204e-42	1.000000	1.72204e-42	1.000000
rad51	1.77143e-45	1.000000	1.77143e-45	1.000000
rad70	2.58490e-48	1.000000	2.58490e-48	1.000000
PhcycC3H3_A+H	1.12710e-48	1.000000	1.12711e-48	1.000000
rad55	6.05027e-49	1.000000	6.05027e-49	1.000000
rad65	1.47301e-50	1.000000	1.47301e-50	1.000000
rad58	3.88148e-52	1.000000	3.88148e-52	1.000000
PAH1+H	6.76166e-54	1.000000	6.76166e-54	1.000000
rad34	4.73125e-56	1.000000	4.73125e-56	1.000000
rad42	6.62979e-60	1.000000	6.62979e-60	1.000000
rad41	1.78802e-60	1.000000	1.78802e-60	1.000000
rad47	1.97872e-66	1.000000	1.97872e-66	1.000000

0.100000000E-06 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.68112e-23 (1.00)	2.68112e-23 (1.00)
Formation of rad11	2.65890e-23 (0.992)	2.65889e-23 (0.992)
Formation of rad6	2.22189e-25 (0.00829)	2.22189e-25 (0.00829)
H-abstraction	1.05871e-28 (3.95e-06)	1.05871e-28 (3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.985364	0.985364	0.985364	0.985364
C2H2+PhCH2	0.00919908	0.994563	0.00919908	0.994563
PhCCH+CH3	0.00271707	0.997280	0.00271708	0.997280
PhCHCCH2+H	0.00166278	0.998943	0.00166278	0.998943
PhCCCH3+H	0.00101513	0.999958	0.00101513	0.999958
Ph+MeAc	1.99928e-05	0.999978	1.99928e-05	0.999978
rad8	8.95716e-06	0.999987	8.95717e-06	0.999987
rad9	4.51458e-06	0.999992	4.51458e-06	0.999992
Benzene+2-propynyl	3.94877e-06	0.999996	3.94877e-06	0.999996

PAH7+H	2.66763e-06	0.999998	2.66763e-06	0.999998
rad30	5.13527e-07	0.999999	5.13527e-07	0.999999
rad12	3.19504e-07	0.999999	3.19504e-07	0.999999
rad39	3.10379e-07	0.999999	3.10379e-07	0.999999
Phenyl+Allene	2.25627e-07	1.000000	0.000000	0.999999
PAH9+H	1.06211e-07	1.000000	1.06211e-07	1.000000
rad15	9.54219e-08	1.000000	9.54219e-08	1.000000
rad35	5.47729e-08	1.000000	5.47729e-08	1.000000
rad38	2.77919e-08	1.000000	2.77919e-08	1.000000
rad46	2.06638e-10	1.000000	2.06638e-10	1.000000
rad6	9.69046e-12	1.000000	9.69047e-12	1.000000
rad60syn	6.54469e-12	1.000000	6.54469e-12	1.000000
PhCH2CCH+H	1.67906e-12	1.000000	1.67906e-12	1.000000
rad28	7.31655e-13	1.000000	7.31655e-13	1.000000
rad60anti	6.70936e-13	1.000000	6.70936e-13	1.000000
rad37	3.02088e-13	1.000000	3.02088e-13	1.000000
rad26	1.25434e-13	1.000000	1.25434e-13	1.000000
rad2	4.30660e-15	1.000000	4.30660e-15	1.000000
rad7	7.02667e-16	1.000000	7.02667e-16	1.000000
rad5	3.25263e-16	1.000000	3.25263e-16	1.000000
rad1	2.75200e-16	1.000000	2.75200e-16	1.000000
rad10	2.19083e-16	1.000000	2.19083e-16	1.000000
rad11	1.72123e-16	1.000000	1.72123e-16	1.000000
rad3	3.29957e-17	1.000000	3.29957e-17	1.000000
rad14	1.86973e-17	1.000000	1.86973e-17	1.000000
rad4	1.67279e-17	1.000000	1.67279e-17	1.000000
rad25	9.23752e-18	1.000000	9.23753e-18	1.000000
rad13	3.91882e-18	1.000000	3.91882e-18	1.000000
rad27	1.08172e-18	1.000000	1.08172e-18	1.000000
PAH3+H	1.74258e-20	1.000000	1.74258e-20	1.000000
rad59	9.08328e-21	1.000000	9.08328e-21	1.000000
rad33	7.68086e-21	1.000000	7.68086e-21	1.000000
rad50	2.22913e-21	1.000000	2.22913e-21	1.000000
rad31	1.50449e-23	1.000000	1.50449e-23	1.000000
rad20	6.51311e-25	1.000000	6.51311e-25	1.000000
rad21	5.07559e-25	1.000000	5.07559e-25	1.000000
rad18	1.80336e-27	1.000000	1.80336e-27	1.000000
rad19syn	3.50628e-28	1.000000	3.50628e-28	1.000000
rad23	2.05578e-28	1.000000	2.05578e-28	1.000000
rad22	1.33829e-28	1.000000	1.33829e-28	1.000000
rad45	1.42429e-30	1.000000	1.42429e-30	1.000000
rad24	2.14283e-31	1.000000	2.14283e-31	1.000000
rad36	8.83689e-32	1.000000	8.83690e-32	1.000000
rad52	3.70732e-32	1.000000	3.70732e-32	1.000000
rad54	3.49107e-37	1.000000	3.49107e-37	1.000000
PAH10+CH3	2.43969e-37	1.000000	2.43969e-37	1.000000
rad43	5.61259e-38	1.000000	5.61259e-38	1.000000
rad62	1.94502e-40	1.000000	1.94502e-40	1.000000
rad51	2.05868e-43	1.000000	2.05868e-43	1.000000
rad70	3.29990e-46	1.000000	3.29990e-46	1.000000
PhcycC3H3_A+H	1.45193e-46	1.000000	1.45193e-46	1.000000
rad55	7.78571e-47	1.000000	7.78572e-47	1.000000
rad65	1.82946e-48	1.000000	1.82946e-48	1.000000
rad58	5.03889e-50	1.000000	5.03889e-50	1.000000
PAH1+H	9.56539e-52	1.000000	9.56540e-52	1.000000
rad34	6.78788e-54	1.000000	6.78788e-54	1.000000
rad42	1.11824e-57	1.000000	1.11824e-57	1.000000
rad41	3.34166e-58	1.000000	3.34166e-58	1.000000
rad47	2.35440e-64	1.000000	2.35440e-64	1.000000

0.100000000E-06 Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.08379e-22 (1.00)	3.08379e-22 (1.00)
Formation of rad11	3.03962e-22 (0.986)	3.03962e-22 (0.986)
Formation of rad6	4.41076e-24 (0.0143)	4.41076e-24 (0.0143)
H-abstraction	5.92916e-27 (1.92e-05)	5.92916e-27 (1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.984773	0.984773	0.984774	0.984774
C2H2+PhCH2	0.00947660	0.994250	0.00947660	0.994251
PhCCH+CH3	0.00287386	0.997124	0.00287386	0.997125
PhCHCCH2+H	0.00174389	0.998867	0.00174389	0.998868
PhCCCH3+H	0.00107001	0.999937	0.00107001	0.999938
Ph+MeAc	2.36820e-05	0.999961	2.36821e-05	0.999962
Benzene+2-propynyl	1.92269e-05	0.999980	1.92269e-05	0.999981
rad8	9.60633e-06	0.999990	9.60633e-06	0.999991
rad9	4.97746e-06	0.999995	4.97746e-06	0.999996

PAH7+H	2.96414e-06	0.999998	2.96414e-06	0.999999
rad30	5.35829e-07	0.999998	5.35830e-07	0.999999
rad39	3.61146e-07	0.999999	3.61146e-07	1.000000
rad12	3.54032e-07	0.999999	3.54032e-07	1.000000
Phenyl+Allene	3.35682e-07	0.999999	0.000000	1.000000
PAH9+H	1.11514e-07	1.000000	1.11514e-07	1.000000
rad15	1.00565e-07	1.000000	1.00565e-07	1.000000
rad35	5.71884e-08	1.000000	5.71885e-08	1.000000
rad38	2.93227e-08	1.000000	2.93227e-08	1.000000
rad46	2.26368e-10	1.000000	2.26368e-10	1.000000
PhCH2CCH+H	1.03766e-11	1.000000	1.03766e-11	1.000000
rad60syn	8.08739e-12	1.000000	8.08739e-12	1.000000
rad6	6.75145e-12	1.000000	6.75145e-12	1.000000
rad37	2.40347e-12	1.000000	2.40347e-12	1.000000
rad60anti	1.09975e-12	1.000000	1.09976e-12	1.000000
rad28	5.59535e-13	1.000000	5.59536e-13	1.000000
rad26	9.84961e-14	1.000000	9.84961e-14	1.000000
rad5	3.47579e-15	1.000000	3.47579e-15	1.000000
rad2	3.17675e-15	1.000000	3.17675e-15	1.000000
rad7	4.90272e-16	1.000000	4.90272e-16	1.000000
rad1	2.03625e-16	1.000000	2.03625e-16	1.000000
rad10	1.62188e-16	1.000000	1.62188e-16	1.000000
rad11	1.20171e-16	1.000000	1.20171e-16	1.000000
rad3	2.53310e-17	1.000000	2.53310e-17	1.000000
rad14	1.51974e-17	1.000000	1.51974e-17	1.000000
rad4	1.28525e-17	1.000000	1.28525e-17	1.000000
rad25	7.55286e-18	1.000000	7.55286e-18	1.000000
rad13	2.73660e-18	1.000000	2.73660e-18	1.000000
rad27	8.89283e-19	1.000000	8.89283e-19	1.000000
PAH3+H	3.47533e-19	1.000000	3.47533e-19	1.000000
rad59	1.74971e-19	1.000000	1.74971e-19	1.000000
rad50	3.24536e-20	1.000000	3.24536e-20	1.000000
rad33	5.41088e-21	1.000000	5.41088e-21	1.000000
rad31	1.47747e-23	1.000000	1.47747e-23	1.000000
rad20	5.78970e-25	1.000000	5.78970e-25	1.000000
rad21	4.52807e-25	1.000000	4.52807e-25	1.000000
rad19syn	1.46099e-25	1.000000	1.46099e-25	1.000000
rad18	1.56476e-27	1.000000	1.56476e-27	1.000000
rad23	1.77106e-28	1.000000	1.77106e-28	1.000000
rad22	1.13516e-28	1.000000	1.13516e-28	1.000000
rad52	1.23077e-29	1.000000	1.23077e-29	1.000000
rad54	6.85408e-30	1.000000	6.85408e-30	1.000000
PAH10+CH3	3.92955e-30	1.000000	3.92955e-30	1.000000
rad45	1.27336e-30	1.000000	1.27336e-30	1.000000
rad43	9.86350e-31	1.000000	9.86351e-31	1.000000
rad24	2.07482e-31	1.000000	2.07482e-31	1.000000
rad36	7.89601e-32	1.000000	7.89602e-32	1.000000
rad62	7.45646e-38	1.000000	7.45646e-38	1.000000
rad51	8.13640e-41	1.000000	8.13640e-41	1.000000
rad70	1.43692e-43	1.000000	1.43692e-43	1.000000
PhcycC3H3_A+H	6.38021e-44	1.000000	6.38021e-44	1.000000
rad55	3.41754e-44	1.000000	3.41754e-44	1.000000
rad65	7.73711e-46	1.000000	7.73711e-46	1.000000
rad58	2.23140e-47	1.000000	2.23140e-47	1.000000
PAH1+H	4.59917e-49	1.000000	4.59917e-49	1.000000
rad34	3.31287e-51	1.000000	3.31287e-51	1.000000
rad42	5.22360e-55	1.000000	5.22360e-55	1.000000
rad41	1.49029e-55	1.000000	1.49029e-55	1.000000
rad47	9.71420e-62	1.000000	9.71421e-62	1.000000

0.100000000E-06 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14497e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.984079	0.984079	0.984080	0.984080
C2H2+PhCH2	0.00978493	0.993864	0.00978494	0.993865
PhCCH+CH3	0.00305192	0.996916	0.00305192	0.996917
PhCHCCH2+H	0.00183519	0.998751	0.00183519	0.998752
PhCCCH3+H	0.00113192	0.999883	0.00113192	0.999884
Benzene+2-propynyl	6.70630e-05	0.999950	6.70630e-05	0.999951
Ph+MeAc	2.82632e-05	0.999978	2.82632e-05	0.999979
rad8	1.03510e-05	0.999989	1.03510e-05	0.999990
rad9	5.52373e-06	0.999994	5.52373e-06	0.999995

PAH7+H	3.31643e-06	0.999997	3.31643e-06	0.999998
rad30	5.61005e-07	0.999998	5.61006e-07	0.999999
Phenyl+Allene	4.90154e-07	0.999999	0.00000	0.999999
rad39	4.23508e-07	0.999999	4.23508e-07	0.999999
rad12	3.94652e-07	0.999999	3.94652e-07	1.000000
PAH9+H	1.17574e-07	0.999999	1.17574e-07	1.000000
rad15	1.06436e-07	1.000000	1.06436e-07	1.000000
rad35	5.99282e-08	1.000000	5.99283e-08	1.000000
rad38	3.10815e-08	1.000000	3.10816e-08	1.000000
rad46	2.50010e-10	1.000000	2.50010e-10	1.000000
PhCH2CCH+H	4.60542e-11	1.000000	4.60542e-11	1.000000
rad37	1.24001e-11	1.000000	1.24001e-11	1.000000
rad60syn	1.01165e-11	1.000000	1.01165e-11	1.000000
rad6	4.85956e-12	1.000000	4.85957e-12	1.000000
rad60anti	1.68502e-12	1.000000	1.68502e-12	1.000000
rad28	4.36201e-13	1.000000	4.36201e-13	1.000000
rad26	7.85445e-14	1.000000	7.85446e-14	1.000000
rad5	2.34973e-14	1.000000	2.34973e-14	1.000000
rad2	2.40657e-15	1.000000	2.40657e-15	1.000000
rad7	3.53433e-16	1.000000	3.53433e-16	1.000000
rad1	1.54777e-16	1.000000	1.54777e-16	1.000000
rad10	1.25226e-16	1.000000	1.25226e-16	1.000000
rad11	8.66885e-17	1.000000	8.66885e-17	1.000000
rad3	2.09020e-17	1.000000	2.09020e-17	1.000000
rad14	1.25077e-17	1.000000	1.25077e-17	1.000000
rad4	1.06146e-17	1.000000	1.06146e-17	1.000000
rad25	6.25462e-18	1.000000	6.25462e-18	1.000000
PAH3+H	3.83495e-18	1.000000	3.83495e-18	1.000000
rad13	1.97459e-18	1.000000	1.97459e-18	1.000000
rad59	1.85459e-18	1.000000	1.85459e-18	1.000000
rad27	7.41042e-19	1.000000	7.41042e-19	1.000000
rad50	2.80691e-19	1.000000	2.80691e-19	1.000000
rad33	3.94273e-21	1.000000	3.94273e-21	1.000000
rad19syn	1.69256e-23	1.000000	1.69256e-23	1.000000
rad31	1.49549e-23	1.000000	1.49549e-23	1.000000
rad20	5.24686e-25	1.000000	5.24686e-25	1.000000
rad21	4.11907e-25	1.000000	4.11908e-25	1.000000
rad54	3.44316e-27	1.000000	3.44316e-27	1.000000
PAH10+CH3	2.22552e-27	1.000000	2.22552e-27	1.000000
rad18	1.38225e-27	1.000000	1.38225e-27	1.000000
rad52	1.20084e-27	1.000000	1.20084e-27	1.000000
rad43	5.29880e-28	1.000000	5.29881e-28	1.000000
rad23	1.61973e-28	1.000000	1.61973e-28	1.000000
rad22	9.80615e-29	1.000000	9.80616e-29	1.000000
rad62	6.92563e-30	1.000000	6.92564e-30	1.000000
rad45	1.25685e-30	1.000000	1.25685e-30	1.000000
rad24	2.05513e-31	1.000000	2.05513e-31	1.000000
rad36	7.79053e-32	1.000000	7.79053e-32	1.000000
rad51	7.64881e-33	1.000000	7.64882e-33	1.000000
rad70	1.30428e-40	1.000000	1.30429e-40	1.000000
PhcycC3H3_A+H	5.84624e-41	1.000000	5.84624e-41	1.000000
rad55	3.12787e-41	1.000000	3.12787e-41	1.000000
rad65	6.80773e-43	1.000000	6.80773e-43	1.000000
rad58	2.06093e-44	1.000000	2.06093e-44	1.000000
PAH1+H	4.61606e-46	1.000000	4.61607e-46	1.000000
rad34	3.37660e-48	1.000000	3.37660e-48	1.000000
rad42	4.72664e-52	1.000000	4.72664e-52	1.000000
rad41	1.17344e-52	1.000000	1.17344e-52	1.000000
rad47	8.46305e-59	1.000000	8.46305e-59	1.000000

0.100000000E-06 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06526e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44007e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.983241	0.983241	0.983242	0.983242
C2H2+PhCH2	0.0101257	0.993367	0.0101257	0.993368
PhCCH+CH3	0.00325294	0.996620	0.00325294	0.996621
PhCHCCH2+H	0.00193733	0.998557	0.00193733	0.998558
PhCCCH3+H	0.00120133	0.999759	0.00120133	0.999760
Benzene+2-propynyl	0.000183695	0.999942	0.000183695	0.999943
Ph+MeAc	3.39168e-05	0.999976	3.39169e-05	0.999977
rad8	1.12005e-05	0.999988	1.12005e-05	0.999989
rad9	6.16580e-06	0.999994	6.16580e-06	0.999995

PAH7+H	3.73380e-06	0.999997	3.73380e-06	0.999998
Phenyl+Allene	7.03816e-07	0.999998	0.00000	0.999998
rad30	5.89308e-07	0.999999	5.89309e-07	0.999999
rad39	4.99755e-07	0.999999	4.99755e-07	0.999999
rad12	4.42175e-07	1.000000	4.42176e-07	1.000000
PAH9+H	1.24474e-07	1.000000	1.24474e-07	1.000000
rad15	1.13113e-07	1.000000	1.13113e-07	1.000000
rad35	6.30240e-08	1.000000	6.30241e-08	1.000000
rad38	3.30961e-08	1.000000	3.30961e-08	1.000000
rad46	2.78294e-10	1.000000	2.78294e-10	1.000000
PhCH2CCH+H	1.60861e-10	1.000000	1.60861e-10	1.000000
rad37	4.68303e-11	1.000000	4.68303e-11	1.000000
rad60syn	1.27704e-11	1.000000	1.27704e-11	1.000000
rad6	3.58556e-12	1.000000	3.58557e-12	1.000000
rad60anti	2.47061e-12	1.000000	2.47061e-12	1.000000
rad28	3.44912e-13	1.000000	3.44912e-13	1.000000
rad5	1.14180e-13	1.000000	1.14180e-13	1.000000
rad26	6.33455e-14	1.000000	6.33456e-14	1.000000
rad2	1.95050e-15	1.000000	1.95050e-15	1.000000
rad7	2.61198e-16	1.000000	2.61198e-16	1.000000
rad1	1.25906e-16	1.000000	1.25906e-16	1.000000
rad10	1.00418e-16	1.000000	1.00419e-16	1.000000
rad11	6.41116e-17	1.000000	6.41117e-17	1.000000
PAH3+H	2.76227e-17	1.000000	2.76227e-17	1.000000
rad3	1.67709e-17	1.000000	1.67709e-17	1.000000
rad59	1.27985e-17	1.000000	1.27985e-17	1.000000
rad14	1.03900e-17	1.000000	1.03901e-17	1.000000
rad4	8.52501e-18	1.000000	8.52502e-18	1.000000
rad25	5.22923e-18	1.000000	5.22924e-18	1.000000
rad50	1.67194e-18	1.000000	1.67194e-18	1.000000
rad13	1.46070e-18	1.000000	1.46070e-18	1.000000
rad27	6.23846e-19	1.000000	6.23847e-19	1.000000
rad33	2.94890e-21	1.000000	2.94891e-21	1.000000
rad19syn	8.11793e-22	1.000000	8.11794e-22	1.000000
rad31	1.55429e-23	1.000000	1.55429e-23	1.000000
rad20	4.82739e-25	1.000000	4.82739e-25	1.000000
rad54	3.80819e-25	1.000000	3.80819e-25	1.000000
rad21	3.80493e-25	1.000000	3.80493e-25	1.000000
PAH10+CH3	2.48851e-25	1.000000	2.48851e-25	1.000000
rad43	5.95378e-26	1.000000	5.95378e-26	1.000000
rad52	5.03875e-26	1.000000	5.03875e-26	1.000000
rad62	1.37871e-27	1.000000	1.37871e-27	1.000000
rad18	1.23773e-27	1.000000	1.23773e-27	1.000000
rad23	1.57266e-28	1.000000	1.57266e-28	1.000000
rad22	8.58673e-29	1.000000	8.58673e-29	1.000000
rad51	1.43630e-30	1.000000	1.43630e-30	1.000000
rad45	1.27554e-30	1.000000	1.27555e-30	1.000000
rad24	2.07408e-31	1.000000	2.07408e-31	1.000000
rad36	7.90457e-32	1.000000	7.90457e-32	1.000000
rad65	1.70796e-34	1.000000	1.70796e-34	1.000000
rad70	1.18251e-37	1.000000	1.18251e-37	1.000000
PhcycC3H3_A+H	5.35275e-38	1.000000	5.35275e-38	1.000000
rad55	2.86021e-38	1.000000	2.86022e-38	1.000000
rad58	1.90250e-41	1.000000	1.90250e-41	1.000000
PAH1+H	4.64355e-43	1.000000	4.64355e-43	1.000000
rad34	3.45434e-45	1.000000	3.45435e-45	1.000000
rad42	4.47800e-49	1.000000	4.47800e-49	1.000000
rad41	9.57168e-50	1.000000	9.57169e-50	1.000000
rad47	7.45868e-56	1.000000	7.45868e-56	1.000000

0.100000000E-06 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.982204	0.982204	0.982205	0.982205
C2H2+PhCH2	0.0105004	0.992705	0.0105004	0.992706
PhCCH+CH3	0.00347852	0.996183	0.00347852	0.996184
PhCHCCH2+H	0.00205089	0.998234	0.00205089	0.998235
PhCCCH3+H	0.00127860	0.999513	0.00127860	0.999514
Benzene+2-propynyl	0.000420064	0.999933	0.000420064	0.999934
Ph+MeAc	4.08445e-05	0.999974	4.08445e-05	0.999975
rad8	1.21637e-05	0.999986	1.21637e-05	0.999987
rad9	6.91704e-06	0.999993	6.91705e-06	0.999994

PAH7+H	4.22655e-06	0.999997	4.22655e-06	0.999998
Phenyl+Allene	9.95319e-07	0.999998	0.00000	0.999998
rad30	6.20976e-07	0.999998	6.20977e-07	0.999998
rad39	5.92479e-07	0.999999	5.92480e-07	0.999999
rad12	4.97432e-07	1.000000	4.97432e-07	1.000000
PAH9+H	1.32303e-07	1.000000	1.32303e-07	1.000000
rad15	1.20674e-07	1.000000	1.20674e-07	1.000000
rad35	6.65079e-08	1.000000	6.65080e-08	1.000000
rad38	3.53957e-08	1.000000	3.53958e-08	1.000000
PhCH2CCH+H	4.69867e-10	1.000000	4.69868e-10	1.000000
rad46	3.12061e-10	1.000000	3.12061e-10	1.000000
rad37	1.40299e-10	1.000000	1.40300e-10	1.000000
rad60syn	1.62200e-11	1.000000	1.62200e-11	1.000000
rad60anti	3.51562e-12	1.000000	3.51562e-12	1.000000
rad6	2.69711e-12	1.000000	2.69712e-12	1.000000
rad5	4.33869e-13	1.000000	4.33869e-13	1.000000
rad28	2.75663e-13	1.000000	2.75664e-13	1.000000
rad26	5.15197e-14	1.000000	5.15198e-14	1.000000
rad2	1.61368e-15	1.000000	1.61368e-15	1.000000
rad7	1.96808e-16	1.000000	1.96809e-16	1.000000
PAH3+H	1.44940e-16	1.000000	1.44940e-16	1.000000
rad1	1.04582e-16	1.000000	1.04582e-16	1.000000
rad10	8.32954e-17	1.000000	8.32955e-17	1.000000
rad59	6.43044e-17	1.000000	6.43045e-17	1.000000
rad11	4.83444e-17	1.000000	4.83444e-17	1.000000
rad3	1.45215e-17	1.000000	1.45215e-17	1.000000
rad14	8.69227e-18	1.000000	8.69228e-18	1.000000
rad50	7.56383e-18	1.000000	7.56384e-18	1.000000
rad4	7.38945e-18	1.000000	7.38946e-18	1.000000
rad25	4.40404e-18	1.000000	4.40405e-18	1.000000
rad13	1.10174e-18	1.000000	1.10175e-18	1.000000
rad27	5.29341e-19	1.000000	5.29341e-19	1.000000
rad19syn	2.03478e-20	1.000000	2.03478e-20	1.000000
rad33	2.25189e-21	1.000000	2.25189e-21	1.000000
rad54	1.78868e-23	1.000000	1.78868e-23	1.000000
rad31	1.65458e-23	1.000000	1.65458e-23	1.000000
PAH10+CH3	1.18111e-23	1.000000	1.18111e-23	1.000000
rad43	2.84069e-24	1.000000	2.84069e-24	1.000000
rad52	1.13261e-24	1.000000	1.13261e-24	1.000000
rad20	4.49636e-25	1.000000	4.49637e-25	1.000000
rad21	3.55896e-25	1.000000	3.55896e-25	1.000000
rad62	1.01744e-25	1.000000	1.01744e-25	1.000000
rad18	1.12020e-27	1.000000	1.12020e-27	1.000000
rad23	1.62508e-28	1.000000	1.62509e-28	1.000000
rad51	1.05156e-28	1.000000	1.05156e-28	1.000000
rad22	7.59700e-29	1.000000	7.59701e-29	1.000000
rad70	3.03478e-29	1.000000	3.03479e-29	1.000000
PhcycC3H3_A+H	1.82703e-29	1.000000	1.82703e-29	1.000000
rad55	1.01624e-29	1.000000	1.01625e-29	1.000000
rad45	1.42730e-30	1.000000	1.42730e-30	1.000000
rad24	2.12692e-31	1.000000	2.12692e-31	1.000000
rad36	8.84460e-32	1.000000	8.84461e-32	1.000000
rad65	3.61495e-32	1.000000	3.61495e-32	1.000000
rad58	8.74392e-33	1.000000	8.74393e-33	1.000000
PAH1+H	5.48720e-40	1.000000	5.48720e-40	1.000000
rad34	4.15177e-42	1.000000	4.15177e-42	1.000000
rad42	5.03723e-46	1.000000	5.03724e-46	1.000000
rad41	8.80853e-47	1.000000	8.80854e-47	1.000000
rad47	7.77706e-53	1.000000	7.77707e-53	1.000000

0.100000000E-06 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.33719e-19 (1.00)	1.33719e-19 (1.00)
Formation of rad11	1.26517e-19 (0.946)	1.26517e-19 (0.946)
Formation of rad6	7.08974e-21 (0.0530)	7.08973e-21 (0.0530)
H-abstraction	1.11864e-22 (0.000837)	1.11864e-22 (0.000837)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.980905	0.980905	0.980906	0.980906
C2H2+PhCH2	0.0109100	0.991815	0.0109100	0.991816
PhCCH+CH3	0.00373004	0.995545	0.00373005	0.995546
PhCHCCH2+H	0.00217629	0.997721	0.00217629	0.997722
PhCCCH3+H	0.00136406	0.999085	0.00136406	0.999086
Benzene+2-propynyl	0.000836559	0.999922	0.000836560	0.999923
Ph+MeAc	4.92723e-05	0.999971	4.92724e-05	0.999972
rad8	1.32488e-05	0.999984	1.32489e-05	0.999985
rad9	7.79207e-06	0.999992	7.79208e-06	0.999993

PAH7+H	4.80608e-06	0.999997	4.80608e-06	0.999998
Phenyl+Allene	1.38822e-06	0.999998	0.00000	0.999998
rad39	7.04644e-07	0.999999	7.04645e-07	0.999998
rad30	6.56250e-07	1.000000	6.56251e-07	0.999999
rad12	5.61279e-07	1.000000	5.61280e-07	1.000000
PAH9+H	1.41155e-07	1.000000	1.41155e-07	1.000000
rad15	1.29204e-07	1.000000	1.29204e-07	1.000000
rad35	7.04124e-08	1.000000	7.04125e-08	1.000000
rad38	3.80122e-08	1.000000	3.80123e-08	1.000000
PhCH2CCH+H	1.19678e-09	1.000000	1.19678e-09	1.000000
rad37	3.52432e-10	1.000000	3.52433e-10	1.000000
rad46	3.52300e-10	1.000000	3.52300e-10	1.000000
rad60syn	2.06760e-11	1.000000	2.06760e-11	1.000000
rad60anti	4.89731e-12	1.000000	4.89732e-12	1.000000
rad6	2.06018e-12	1.000000	2.06018e-12	1.000000
rad5	1.36588e-12	1.000000	1.36588e-12	1.000000
rad28	2.22135e-13	1.000000	2.22135e-13	1.000000
rad26	4.21702e-14	1.000000	4.21703e-14	1.000000
rad2	1.36671e-15	1.000000	1.36671e-15	1.000000
PAH3+H	5.97636e-16	1.000000	5.97637e-16	1.000000
rad59	2.54057e-16	1.000000	2.54057e-16	1.000000
rad7	1.50595e-16	1.000000	1.50595e-16	1.000000
rad1	8.89608e-17	1.000000	8.89609e-17	1.000000
rad10	7.06814e-17	1.000000	7.06815e-17	1.000000
rad11	3.70229e-17	1.000000	3.70230e-17	1.000000
rad50	2.77956e-17	1.000000	2.77956e-17	1.000000
rad3	1.28120e-17	1.000000	1.28120e-17	1.000000
rad14	7.31193e-18	1.000000	7.31194e-18	1.000000
rad4	6.52715e-18	1.000000	6.52716e-18	1.000000
rad25	3.73034e-18	1.000000	3.73034e-18	1.000000
rad13	8.43949e-19	1.000000	8.43950e-19	1.000000
rad27	4.51954e-19	1.000000	4.51954e-19	1.000000
rad19syn	3.10953e-19	1.000000	3.10954e-19	1.000000
rad33	1.74912e-21	1.000000	1.74912e-21	1.000000
rad54	4.59070e-22	1.000000	4.59071e-22	1.000000
PAH10+CH3	3.05744e-22	1.000000	3.05745e-22	1.000000
rad43	7.38551e-23	1.000000	7.38552e-23	1.000000
rad31	1.80115e-23	1.000000	1.80115e-23	1.000000
rad52	1.58221e-23	1.000000	1.58221e-23	1.000000
rad62	3.62270e-24	1.000000	3.62270e-24	1.000000
rad20	4.23142e-25	1.000000	4.23143e-25	1.000000
rad21	3.36416e-25	1.000000	3.36416e-25	1.000000
rad51	3.73372e-27	1.000000	3.73373e-27	1.000000
rad70	2.72512e-27	1.000000	2.72513e-27	1.000000
PhcycC3H3_A+H	2.14621e-27	1.000000	2.14621e-27	1.000000
rad18	1.02253e-27	1.000000	1.02253e-27	1.000000
rad55	9.74054e-28	1.000000	9.74056e-28	1.000000
rad23	1.79153e-28	1.000000	1.79154e-28	1.000000
rad22	6.77573e-29	1.000000	6.77574e-29	1.000000
rad65	2.45305e-30	1.000000	2.45306e-30	1.000000
rad45	1.68470e-30	1.000000	1.68470e-30	1.000000
rad58	1.13111e-30	1.000000	1.13111e-30	1.000000
rad24	2.21213e-31	1.000000	2.21214e-31	1.000000
rad36	1.04413e-31	1.000000	1.04413e-31	1.000000
PAH1+H	4.51062e-37	1.000000	4.51063e-37	1.000000
rad34	3.47429e-39	1.000000	3.47430e-39	1.000000
rad42	4.19204e-43	1.000000	4.19205e-43	1.000000
rad41	6.41181e-44	1.000000	6.41182e-44	1.000000
rad47	3.58533e-44	1.000000	3.58534e-44	1.000000

0.100000000E-06 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.59582e-19 (1.00)	3.59581e-19 (1.00)
Formation of rad11	3.35703e-19 (0.934)	3.35702e-19 (0.934)
Formation of rad6	2.33415e-20 (0.0649)	2.33414e-20 (0.0649)
H-abstraction	5.37685e-22 (0.00150)	5.37685e-22 (0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.979275	0.979275	0.979277	0.979277
C2H2+PhCH2	0.0113554	0.990631	0.0113554	0.990633
PhCCH+CH3	0.00400888	0.994640	0.00400889	0.994642
PhCHCCH2+H	0.00231392	0.996954	0.00231393	0.996956
Benzene+2-propynyl	0.00149531	0.998449	0.00149531	0.998451
PhCCCH3+H	0.00145795	0.999907	0.00145796	0.999909
Ph+MeAc	5.94544e-05	0.999966	5.94545e-05	0.999968
rad8	1.44642e-05	0.999981	1.44642e-05	0.999983
rad9	8.80699e-06	0.999990	8.80701e-06	0.999992

PAH7+H	5.48527e-06	0.999995	5.48528e-06	0.999997
Phenyl+Allene	1.91223e-06	0.999997	0.00000	0.999997
rad39	8.39671e-07	0.999998	8.39673e-07	0.999998
rad30	6.95380e-07	0.999999	6.95381e-07	0.999999
rad12	6.34619e-07	0.999999	6.34620e-07	0.999999
PAH9+H	1.51131e-07	0.999999	1.51132e-07	0.999999
rad15	1.38790e-07	1.000000	1.38791e-07	1.000000
rad35	7.47738e-08	1.000000	7.47740e-08	1.000000
rad38	4.09810e-08	1.000000	4.09810e-08	1.000000
PhCH2CCH+H	2.73836e-09	1.000000	2.73836e-09	1.000000
rad37	7.72161e-10	1.000000	7.72163e-10	1.000000
rad46	4.00193e-10	1.000000	4.00194e-10	1.000000
rad60syn	2.63995e-11	1.000000	2.63996e-11	1.000000
rad60anti	6.71524e-12	1.000000	6.71525e-12	1.000000
rad5	3.71118e-12	1.000000	3.71119e-12	1.000000
rad6	1.59330e-12	1.000000	1.59330e-12	1.000000
rad28	1.80147e-13	1.000000	1.80148e-13	1.000000
rad26	3.46870e-14	1.000000	3.46871e-14	1.000000
PAH3+H	2.04390e-15	1.000000	2.04391e-15	1.000000
rad2	1.20641e-15	1.000000	1.20641e-15	1.000000
rad59	8.33650e-16	1.000000	8.33652e-16	1.000000
rad7	1.16679e-16	1.000000	1.16680e-16	1.000000
rad50	8.70097e-17	1.000000	8.70099e-17	1.000000
rad1	7.88989e-17	1.000000	7.88990e-17	1.000000
rad10	6.17039e-17	1.000000	6.17040e-17	1.000000
rad11	2.87104e-17	1.000000	2.87104e-17	1.000000
rad3	1.17351e-17	1.000000	1.17351e-17	1.000000
rad14	6.17747e-18	1.000000	6.17748e-18	1.000000
rad4	5.98620e-18	1.000000	5.98621e-18	1.000000
rad19syn	3.22743e-18	1.000000	3.22743e-18	1.000000
rad25	3.17412e-18	1.000000	3.17413e-18	1.000000
rad13	6.54633e-19	1.000000	6.54634e-19	1.000000
rad27	3.87822e-19	1.000000	3.87822e-19	1.000000
rad54	7.40437e-21	1.000000	7.40439e-21	1.000000
PAH10+CH3	4.96808e-21	1.000000	4.96809e-21	1.000000
rad33	1.37813e-21	1.000000	1.37813e-21	1.000000
rad43	1.20454e-21	1.000000	1.20454e-21	1.000000
rad52	1.52548e-22	1.000000	1.52549e-22	1.000000
rad62	7.69039e-23	1.000000	7.69041e-23	1.000000
rad31	2.00296e-23	1.000000	2.00297e-23	1.000000
rad20	4.01772e-25	1.000000	4.01773e-25	1.000000
rad21	3.20925e-25	1.000000	3.20926e-25	1.000000
rad70	1.16345e-25	1.000000	1.16345e-25	1.000000
PhcycC3H3_A+H	1.06484e-25	1.000000	1.06485e-25	1.000000
rad51	7.94722e-26	1.000000	7.94724e-26	1.000000
rad55	4.37363e-26	1.000000	4.37364e-26	1.000000
rad18	9.40016e-28	1.000000	9.40018e-28	1.000000
rad23	2.11110e-28	1.000000	2.11110e-28	1.000000
PAH1+H	1.72869e-28	1.000000	1.72869e-28	1.000000
rad65	8.26211e-29	1.000000	8.26213e-29	1.000000
rad22	6.08219e-29	1.000000	6.08220e-29	1.000000
rad58	6.05541e-29	1.000000	6.05542e-29	1.000000
rad34	4.12810e-30	1.000000	4.12811e-30	1.000000
rad45	2.13165e-30	1.000000	2.13166e-30	1.000000
rad24	2.33054e-31	1.000000	2.33055e-31	1.000000
rad36	1.32161e-31	1.000000	1.32161e-31	1.000000
rad42	1.07647e-39	1.000000	1.07647e-39	1.000000
rad41	1.50183e-40	1.000000	1.50183e-40	1.000000
rad47	2.48364e-42	1.000000	2.48364e-42	1.000000

0.100000000E-06 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.51464e-19 (1.00)	8.51462e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83709e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56649e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.977259	0.977259	0.977261	0.977261
C2H2+PhCH2	0.0118379	0.989097	0.0118379	0.989099
PhCCH+CH3	0.00431640	0.993414	0.00431641	0.993416
PhCHCCH2+H	0.00246419	0.995878	0.00246419	0.995880
Benzene+2-propynyl	0.00245244	0.998330	0.00245245	0.998332
PhCCCH3+H	0.00156051	0.999891	0.00156051	0.999893
Ph+MeAc	7.16766e-05	0.999963	7.16768e-05	0.999965
rad8	1.58181e-05	0.999978	1.58182e-05	0.999980
rad9	9.97996e-06	0.999988	9.97996e-06	0.999990

PAH7+H	6.27886e-06	0.999995	6.27888e-06	0.999997
Phenyl+Allene	2.60480e-06	0.999997	0.00000	0.999997
rad39	1.00154e-06	0.999998	1.00154e-06	0.999998
rad30	7.38645e-07	0.999999	7.38647e-07	0.999998
rad12	7.18406e-07	1.000000	7.18408e-07	0.999999
PAH9+H	1.62352e-07	1.000000	1.62352e-07	0.999999
rad15	1.49535e-07	1.000000	1.49535e-07	0.999999
rad35	7.96324e-08	1.000000	7.96327e-08	0.999999
rad38	4.43432e-08	1.000000	4.43433e-08	1.000000
PhCH2CCH+H	5.75222e-09	1.000000	5.75224e-09	1.000000
rad37	1.51871e-09	1.000000	1.51871e-09	1.000000
rad46	4.57168e-10	1.000000	4.57170e-10	1.000000
rad60syn	3.37159e-11	1.000000	3.37160e-11	1.000000
rad60anti	9.09665e-12	1.000000	9.09668e-12	1.000000
rad5	8.96569e-12	1.000000	8.96571e-12	1.000000
rad6	1.24487e-12	1.000000	1.24488e-12	1.000000
rad28	1.46831e-13	1.000000	1.46832e-13	1.000000
rad26	2.86403e-14	1.000000	2.86404e-14	1.000000
PAH3+H	6.03130e-15	1.000000	6.03132e-15	1.000000
rad59	2.36428e-15	1.000000	2.36428e-15	1.000000
rad2	1.07101e-15	1.000000	1.07101e-15	1.000000
rad50	2.40151e-16	1.000000	2.40152e-16	1.000000
rad7	9.13353e-17	1.000000	9.13355e-17	1.000000
rad1	7.04042e-17	1.000000	7.04044e-17	1.000000
rad10	5.56272e-17	1.000000	5.56274e-17	1.000000
rad19syn	2.46149e-17	1.000000	2.46149e-17	1.000000
rad11	2.24954e-17	1.000000	2.24954e-17	1.000000
rad3	1.11120e-17	1.000000	1.11120e-17	1.000000
rad4	5.67627e-18	1.000000	5.67628e-18	1.000000
rad14	5.23719e-18	1.000000	5.23720e-18	1.000000
rad25	2.71086e-18	1.000000	2.71087e-18	1.000000
rad13	5.13054e-19	1.000000	5.13055e-19	1.000000
rad27	3.34170e-19	1.000000	3.34170e-19	1.000000
rad54	8.25298e-20	1.000000	8.25300e-20	1.000000
PAH10+CH3	5.57277e-20	1.000000	5.57278e-20	1.000000
rad43	1.35491e-20	1.000000	1.35491e-20	1.000000
rad33	1.09927e-21	1.000000	1.09927e-21	1.000000
rad52	1.09591e-21	1.000000	1.09591e-21	1.000000
rad62	1.08552e-21	1.000000	1.08552e-21	1.000000
rad31	2.27398e-23	1.000000	2.27399e-23	1.000000
rad70	2.82757e-24	1.000000	2.82758e-24	1.000000
PhcycC3H3_A+H	2.82696e-24	1.000000	2.82697e-24	1.000000
rad51	1.13153e-24	1.000000	1.13153e-24	1.000000
rad55	1.09836e-24	1.000000	1.09836e-24	1.000000
rad20	3.84514e-25	1.000000	3.84515e-25	1.000000
rad21	3.08661e-25	1.000000	3.08662e-25	1.000000
PAH1+H	8.47528e-27	1.000000	8.47531e-27	1.000000
rad65	1.71245e-27	1.000000	1.71245e-27	1.000000
rad58	1.68999e-27	1.000000	1.69000e-27	1.000000
rad18	8.69341e-28	1.000000	8.69343e-28	1.000000
rad23	2.65806e-28	1.000000	2.65806e-28	1.000000
rad34	2.52727e-28	1.000000	2.52727e-28	1.000000
rad22	5.48824e-29	1.000000	5.48826e-29	1.000000
rad45	2.94761e-30	1.000000	2.94762e-30	1.000000
rad42	7.85452e-31	1.000000	7.85454e-31	1.000000
rad24	2.48495e-31	1.000000	2.48496e-31	1.000000
rad36	1.82861e-31	1.000000	1.82861e-31	1.000000
rad41	1.60818e-31	1.000000	1.60819e-31	1.000000
rad47	7.59466e-41	1.000000	7.59468e-41	1.000000

0.100000000E-06 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.81800e-18 (1.00)	1.81799e-18 (1.00)
Formation of rad11	1.64862e-18 (0.907)	1.64862e-18 (0.907)
Formation of rad6	1.62558e-19 (0.0894)	1.62558e-19 (0.0894)
H-abstraction	6.82130e-21 (0.00375)	6.82130e-21 (0.00375)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.974807	0.974807	0.974811	0.974811
C2H2+PhCH2	0.0123588	0.987165	0.0123588	0.987169
PhCCH+CH3	0.00465401	0.991819	0.00465402	0.991823
Benzene+2-propynyl	0.00375209	0.995572	0.00375210	0.995576
PhCHCCH2+H	0.00262746	0.998199	0.00262746	0.998203
PhCCCH3+H	0.00167196	0.999871	0.00167197	0.999875
Ph+MeAc	8.62597e-05	0.999957	8.62600e-05	0.999961
rad8	1.73191e-05	0.999975	1.73192e-05	0.999979
rad9	1.13312e-05	0.999986	1.13312e-05	0.999990

PAH7+H	7.20380e-06	0.999993	7.20382e-06	0.999997
Phenyl+Allene	3.51284e-06	0.999997	0.00000	0.999997
rad39	1.19487e-06	0.999998	1.19488e-06	0.999998
rad12	8.13658e-07	0.999999	8.13661e-07	0.999999
rad30	7.86364e-07	0.999999	7.86367e-07	1.000000
PAH9+H	1.74954e-07	1.000000	1.74955e-07	1.000000
rad15	1.61553e-07	1.000000	1.61554e-07	1.000000
rad35	8.50354e-08	1.000000	8.50357e-08	1.000000
rad38	4.81464e-08	1.000000	4.81466e-08	1.000000
PhCH2CCH+H	1.12738e-08	1.000000	1.12739e-08	1.000000
rad37	2.73995e-09	1.000000	2.73996e-09	1.000000
rad46	5.24960e-10	1.000000	5.24962e-10	1.000000
rad60syn	4.30320e-11	1.000000	4.30321e-11	1.000000
rad5	1.96898e-11	1.000000	1.96899e-11	1.000000
rad60anti	1.22034e-11	1.000000	1.22034e-11	1.000000
rad6	9.80939e-13	1.000000	9.80942e-13	1.000000
rad28	1.20153e-13	1.000000	1.20154e-13	1.000000
rad26	2.37180e-14	1.000000	2.37180e-14	1.000000
PAH3+H	1.58159e-14	1.000000	1.58160e-14	1.000000
rad59	5.96954e-15	1.000000	5.96956e-15	1.000000
rad2	1.01326e-15	1.000000	1.01326e-15	1.000000
rad50	5.99510e-16	1.000000	5.99512e-16	1.000000
rad19syn	1.46313e-16	1.000000	1.46314e-16	1.000000
rad7	7.21105e-17	1.000000	7.21108e-17	1.000000
rad1	6.69807e-17	1.000000	6.69810e-17	1.000000
rad10	5.13198e-17	1.000000	5.13200e-17	1.000000
rad11	1.77784e-17	1.000000	1.77785e-17	1.000000
rad3	1.02217e-17	1.000000	1.02217e-17	1.000000
rad4	5.22949e-18	1.000000	5.22951e-18	1.000000
rad14	4.45262e-18	1.000000	4.45264e-18	1.000000
rad25	2.32231e-18	1.000000	2.32232e-18	1.000000
rad54	6.82323e-19	1.000000	6.82325e-19	1.000000
PAH10+CH3	4.63169e-19	1.000000	4.63171e-19	1.000000
rad13	4.05577e-19	1.000000	4.05578e-19	1.000000
rad27	2.88944e-19	1.000000	2.88945e-19	1.000000
rad43	1.12798e-19	1.000000	1.12798e-19	1.000000
rad62	1.10170e-20	1.000000	1.10170e-20	1.000000
rad52	6.21217e-21	1.000000	6.21219e-21	1.000000
rad33	8.86414e-22	1.000000	8.86417e-22	1.000000
PhcycC3H3_A+H	4.94897e-23	1.000000	4.94898e-23	1.000000
rad70	4.58079e-23	1.000000	4.58080e-23	1.000000
rad31	2.63465e-23	1.000000	2.63466e-23	1.000000
rad55	1.82891e-23	1.000000	1.82891e-23	1.000000
rad51	1.16593e-23	1.000000	1.16593e-23	1.000000
rad20	3.70657e-25	1.000000	3.70658e-25	1.000000
rad21	2.99093e-25	1.000000	2.99094e-25	1.000000
PAH1+H	2.26749e-25	1.000000	2.26750e-25	1.000000
rad58	3.08150e-26	1.000000	3.08151e-26	1.000000
rad65	2.43580e-26	1.000000	2.43581e-26	1.000000
rad34	7.87306e-27	1.000000	7.87309e-27	1.000000
rad18	8.08151e-28	1.000000	8.08154e-28	1.000000
rad23	3.56826e-28	1.000000	3.56827e-28	1.000000
rad22	4.97379e-29	1.000000	4.97380e-29	1.000000
rad42	4.07683e-29	1.000000	4.07684e-29	1.000000
rad41	9.77891e-30	1.000000	9.77894e-30	1.000000
rad45	4.24586e-30	1.000000	4.24587e-30	1.000000
rad24	2.68013e-31	1.000000	2.68014e-31	1.000000
rad36	2.63625e-31	1.000000	2.63626e-31	1.000000
rad47	1.41734e-39	1.000000	1.41734e-39	1.000000

0.100000000E-06 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.56414e-18 (1.00)	3.56412e-18 (1.00)
Formation of rad11	3.18264e-18 (0.893)	3.18262e-18 (0.893)
Formation of rad6	3.62173e-19 (0.102)	3.62171e-19 (0.102)
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.971886	0.971886	0.971890	0.971890
C2H2+PhCH2	0.0129197	0.984806	0.0129198	0.984810
Benzene+2-propynyl	0.00542285	0.990228	0.00542288	0.990232
PhCCH+CH3	0.00502322	0.995252	0.00502324	0.995256
PhCHCCH2+H	0.00280414	0.998056	0.00280415	0.998060
PhCCCH3+H	0.00179251	0.999848	0.00179252	0.999852
Ph+MeAc	0.000103560	0.999952	0.000103561	0.999956
rad8	1.89757e-05	0.999971	1.89758e-05	0.999975
rad9	1.28840e-05	0.999984	1.28840e-05	0.999988

PAH7+H	8.27954e-06	0.999992	8.27958e-06	0.999996
Phenyl+Allene	4.69486e-06	0.999997	0.00000	0.999996
rad39	1.42506e-06	0.999998	1.42507e-06	0.999997
rad12	9.21445e-07	0.999999	9.21450e-07	0.999998
rad30	8.38901e-07	1.000000	8.38905e-07	0.999999
PAH9+H	1.89100e-07	1.000000	1.89101e-07	0.999999
rad15	1.74975e-07	1.000000	1.74976e-07	1.000000
rad35	9.10373e-08	1.000000	9.10378e-08	1.000000
rad38	5.24466e-08	1.000000	5.24468e-08	1.000000
PhCH2CCH+H	2.08705e-08	1.000000	2.08706e-08	1.000000
rad37	4.60959e-09	1.000000	4.60961e-09	1.000000
rad46	6.05673e-10	1.000000	6.05676e-10	1.000000
rad60syn	5.48555e-11	1.000000	5.48558e-11	1.000000
rad5	3.99752e-11	1.000000	3.99754e-11	1.000000
rad60anti	1.62405e-11	1.000000	1.62405e-11	1.000000
rad6	7.78520e-13	1.000000	7.78524e-13	1.000000
rad28	9.86352e-14	1.000000	9.86357e-14	1.000000
PAH3+H	3.76907e-14	1.000000	3.76909e-14	1.000000
rad26	1.96873e-14	1.000000	1.96874e-14	1.000000
rad59	1.37229e-14	1.000000	1.37229e-14	1.000000
rad50	1.37985e-15	1.000000	1.37986e-15	1.000000
rad2	9.01248e-16	1.000000	9.01252e-16	1.000000
rad19syn	7.08948e-16	1.000000	7.08951e-16	1.000000
rad1	5.99391e-17	1.000000	5.99394e-17	1.000000
rad7	5.73454e-17	1.000000	5.73457e-17	1.000000
rad10	4.73840e-17	1.000000	4.73842e-17	1.000000
rad11	1.41535e-17	1.000000	1.41536e-17	1.000000
rad3	1.02712e-17	1.000000	1.02712e-17	1.000000
rad4	5.26362e-18	1.000000	5.26364e-18	1.000000
rad54	4.41605e-18	1.000000	4.41607e-18	1.000000
rad14	3.79448e-18	1.000000	3.79449e-18	1.000000
PAH10+CH3	3.01001e-18	1.000000	3.01003e-18	1.000000
rad25	1.99460e-18	1.000000	1.99461e-18	1.000000
rad43	7.33358e-19	1.000000	7.33361e-19	1.000000
rad13	3.22961e-19	1.000000	3.22963e-19	1.000000
rad27	2.50586e-19	1.000000	2.50587e-19	1.000000
rad62	8.52798e-20	1.000000	8.52803e-20	1.000000
rad52	2.90265e-20	1.000000	2.90266e-20	1.000000
rad33	7.21846e-22	1.000000	7.21850e-22	1.000000
PhcycC3H3_A+H	6.18575e-22	1.000000	6.18578e-22	1.000000
rad70	5.33446e-22	1.000000	5.33448e-22	1.000000
rad55	2.18165e-22	1.000000	2.18166e-22	1.000000
rad51	9.22228e-23	1.000000	9.22232e-23	1.000000
rad31	3.11440e-23	1.000000	3.11441e-23	1.000000
PAH1+H	3.94436e-24	1.000000	3.94438e-24	1.000000
rad58	3.99313e-25	1.000000	3.99315e-25	1.000000
rad20	3.59702e-25	1.000000	3.59704e-25	1.000000
rad21	2.91853e-25	1.000000	2.91855e-25	1.000000
rad65	2.54727e-25	1.000000	2.54729e-25	1.000000
rad34	1.50323e-25	1.000000	1.50324e-25	1.000000
rad42	1.01747e-27	1.000000	1.01748e-27	1.000000
rad18	7.54712e-28	1.000000	7.54716e-28	1.000000
rad23	5.09434e-28	1.000000	5.09437e-28	1.000000
rad41	2.58572e-28	1.000000	2.58573e-28	1.000000
rad22	4.52406e-29	1.000000	4.52408e-29	1.000000
rad45	6.47710e-30	1.000000	6.47713e-30	1.000000
rad36	4.02621e-31	1.000000	4.02623e-31	1.000000
rad24	2.92295e-31	1.000000	2.92297e-31	1.000000
rad47	1.82774e-38	1.000000	1.82775e-38	1.000000

0.100000000E-06 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.50681e-18 (1.00)	6.50677e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71911e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39008e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.968478	0.968478	0.968484	0.968484
C2H2+PhCH2	0.0135227	0.982001	0.0135228	0.982007
Benzene+2-propynyl	0.00747672	0.989478	0.00747676	0.989484
PhCCH+CH3	0.00542557	0.994903	0.00542561	0.994910
PhCHCCH2+H	0.00299465	0.997898	0.00299467	0.997904
PhCCCH3+H	0.00192234	0.999820	0.00192235	0.999827
Ph+MeAc	0.000123972	0.999944	0.000123973	0.999951
rad8	2.07969e-05	0.999965	2.07971e-05	0.999971
rad9	1.46638e-05	0.999980	1.46639e-05	0.999986

PAH7+H	9.52843e-06	0.999989	9.52849e-06	0.999996
Phenyl+Allene	6.22337e-06	0.999996	0.00000	0.999996
rad39	1.69832e-06	0.999997	1.69833e-06	0.999997
rad12	1.04289e-06	0.999998	1.04289e-06	0.999998
rad30	8.96672e-07	0.999999	8.96677e-07	0.999999
PAH9+H	2.04976e-07	0.999999	2.04977e-07	0.999999
rad15	1.89951e-07	1.000000	1.89952e-07	1.000000
rad35	9.77018e-08	1.000000	9.77024e-08	1.000000
rad38	5.73091e-08	1.000000	5.73094e-08	1.000000
PhCH2CCH+H	3.68399e-08	1.000000	3.68402e-08	1.000000
rad37	7.32434e-09	1.000000	7.32437e-09	1.000000
rad46	7.01861e-10	1.000000	7.01865e-10	1.000000
rad5	7.60086e-11	1.000000	7.60090e-11	1.000000
rad60syn	6.98185e-11	1.000000	6.98188e-11	1.000000
rad60anti	2.14664e-11	1.000000	2.14665e-11	1.000000
rad6	6.21671e-13	1.000000	6.21675e-13	1.000000
PAH3+H	8.30444e-14	1.000000	8.30449e-14	1.000000
rad28	8.11763e-14	1.000000	8.11769e-14	1.000000
rad59	2.92195e-14	1.000000	2.92197e-14	1.000000
rad26	1.63714e-14	1.000000	1.63715e-14	1.000000
rad50	2.97123e-15	1.000000	2.97125e-15	1.000000
rad19syn	2.89948e-15	1.000000	2.89950e-15	1.000000
rad2	9.30539e-16	1.000000	9.30545e-16	1.000000
rad1	6.22966e-17	1.000000	6.22970e-17	1.000000
rad10	4.65373e-17	1.000000	4.65376e-17	1.000000
rad7	4.58869e-17	1.000000	4.58872e-17	1.000000
rad54	2.33297e-17	1.000000	2.33298e-17	1.000000
PAH10+CH3	1.59467e-17	1.000000	1.59468e-17	1.000000
rad11	1.13387e-17	1.000000	1.13388e-17	1.000000
rad3	1.03462e-17	1.000000	1.03463e-17	1.000000
rad4	5.31179e-18	1.000000	5.31182e-18	1.000000
rad43	3.88182e-18	1.000000	3.88185e-18	1.000000
rad14	3.24000e-18	1.000000	3.24002e-18	1.000000
rad25	1.71694e-18	1.000000	1.71695e-18	1.000000
rad62	5.27068e-19	1.000000	5.27072e-19	1.000000
rad13	2.58791e-19	1.000000	2.58792e-19	1.000000
rad27	2.17889e-19	1.000000	2.17890e-19	1.000000
rad52	1.15649e-19	1.000000	1.15650e-19	1.000000
PhcycC3H3_A+H	5.85620e-21	1.000000	5.85623e-21	1.000000
rad70	4.72801e-21	1.000000	4.72804e-21	1.000000
rad55	1.97618e-21	1.000000	1.97620e-21	1.000000
rad33	5.93234e-22	1.000000	5.93238e-22	1.000000
rad51	5.86138e-22	1.000000	5.86142e-22	1.000000
PAH1+H	4.95211e-23	1.000000	4.95214e-23	1.000000
rad31	3.75554e-23	1.000000	3.75556e-23	1.000000
rad58	3.90830e-24	1.000000	3.90832e-24	1.000000
rad65	2.06558e-24	1.000000	2.06559e-24	1.000000
rad34	2.04058e-24	1.000000	2.04059e-24	1.000000
rad20	3.51297e-25	1.000000	3.51299e-25	1.000000
rad21	2.86691e-25	1.000000	2.86693e-25	1.000000
rad42	1.68941e-26	1.000000	1.68942e-26	1.000000
rad41	4.43576e-27	1.000000	4.43577e-27	1.000000
rad23	7.70865e-28	1.000000	7.70870e-28	1.000000
rad18	7.07721e-28	1.000000	7.07725e-28	1.000000
rad22	4.12798e-29	1.000000	4.12801e-29	1.000000
rad45	1.05315e-29	1.000000	1.05315e-29	1.000000
rad36	6.55590e-31	1.000000	6.55594e-31	1.000000
rad24	3.22288e-31	1.000000	3.22290e-31	1.000000
rad47	1.73400e-37	1.000000	1.73401e-37	1.000000

0.100000000E-06 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.11858e-17 (1.00)	1.11857e-17 (1.00)
Formation of rad11	9.67466e-18 (0.865)	9.67458e-18 (0.865)
Formation of rad6	1.40029e-18 (0.125)	1.40028e-18 (0.125)
H-abstraction	1.10851e-19 (0.00991)	1.10851e-19 (0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.964584	0.964584	0.964592	0.964592
C2H2+PhCH2	0.0141702	0.978755	0.0141704	0.978763
Benzene+2-propynyl	0.00990995	0.988664	0.00991003	0.988673
PhCCH+CH3	0.00586267	0.994527	0.00586271	0.994535
PhCHCCH2+H	0.00319942	0.997727	0.00319945	0.997735
PhCCCH3+H	0.00206163	0.999788	0.00206164	0.999796
Ph+MeAc	0.000147922	0.999936	0.000147924	0.999944
rad8	2.27914e-05	0.999959	2.27916e-05	0.999967
rad9	1.66997e-05	0.999976	1.66999e-05	0.999984

PAH7+H	1.09759e-05	0.999987	1.09760e-05	0.999995
Phenyl+Allene	8.18753e-06	0.999995	0.00000	0.999995
rad39	2.02180e-06	0.999997	2.02182e-06	0.999997
rad12	1.17915e-06	0.999998	1.17916e-06	0.999998
rad30	9.60146e-07	0.999999	9.60154e-07	0.999999
PAH9+H	2.22798e-07	0.999999	2.22800e-07	0.999999
rad15	2.06651e-07	0.999999	2.06653e-07	0.999999
rad35	1.05102e-07	0.999999	1.05103e-07	0.999999
rad38	6.28096e-08	1.000000	6.28101e-08	1.000000
PhCH2CCH+H	6.24642e-08	1.000000	6.24647e-08	1.000000
rad37	1.11022e-08	1.000000	1.11023e-08	1.000000
rad46	8.16612e-10	1.000000	8.16619e-10	1.000000
rad5	1.36732e-10	1.000000	1.36733e-10	1.000000
rad60syn	8.87040e-11	1.000000	8.87048e-11	1.000000
rad60anti	2.82054e-11	1.000000	2.82057e-11	1.000000
rad6	4.99060e-13	1.000000	4.99064e-13	1.000000
PAH3+H	1.71452e-13	1.000000	1.71453e-13	1.000000
rad28	6.69440e-14	1.000000	6.69446e-14	1.000000
rad59	5.84003e-14	1.000000	5.84008e-14	1.000000
rad26	1.36335e-14	1.000000	1.36336e-14	1.000000
rad19syn	1.02878e-14	1.000000	1.02879e-14	1.000000
rad50	6.05356e-15	1.000000	6.05362e-15	1.000000
rad2	8.98587e-16	1.000000	8.98594e-16	1.000000
rad54	1.03970e-16	1.000000	1.03971e-16	1.000000
PAH10+CH3	7.11675e-17	1.000000	7.11681e-17	1.000000
rad1	6.05897e-17	1.000000	6.05902e-17	1.000000
rad10	4.59334e-17	1.000000	4.59338e-17	1.000000
rad7	3.69156e-17	1.000000	3.69159e-17	1.000000
rad43	1.72857e-17	1.000000	1.72859e-17	1.000000
rad3	1.03219e-17	1.000000	1.03219e-17	1.000000
rad11	9.13331e-18	1.000000	9.13338e-18	1.000000
rad4	5.30990e-18	1.000000	5.30994e-18	1.000000
rad14	2.77125e-18	1.000000	2.77128e-18	1.000000
rad62	2.69622e-18	1.000000	2.69624e-18	1.000000
rad25	1.48081e-18	1.000000	1.48083e-18	1.000000
rad52	4.03514e-19	1.000000	4.03517e-19	1.000000
rad13	2.08501e-19	1.000000	2.08502e-19	1.000000
rad27	1.89901e-19	1.000000	1.89903e-19	1.000000
PhcycC3H3_A+H	4.38895e-20	1.000000	4.38898e-20	1.000000
rad70	3.33202e-20	1.000000	3.33205e-20	1.000000
rad55	1.42084e-20	1.000000	1.42085e-20	1.000000
rad51	3.10227e-21	1.000000	3.10230e-21	1.000000
rad33	4.91796e-22	1.000000	4.91799e-22	1.000000
PAH1+H	4.73309e-22	1.000000	4.73313e-22	1.000000
rad31	4.61897e-23	1.000000	4.61901e-23	1.000000
rad58	3.02074e-23	1.000000	3.02077e-23	1.000000
rad34	2.08650e-23	1.000000	2.08652e-23	1.000000
rad65	1.35334e-23	1.000000	1.35335e-23	1.000000
rad20	3.45196e-25	1.000000	3.45199e-25	1.000000
rad21	2.83442e-25	1.000000	2.83445e-25	1.000000
rad42	2.03932e-25	1.000000	2.03933e-25	1.000000
rad41	5.49126e-26	1.000000	5.49130e-26	1.000000
rad23	1.23420e-27	1.000000	1.23421e-27	1.000000
rad18	6.66174e-28	1.000000	6.66180e-28	1.000000
rad22	3.77705e-29	1.000000	3.77707e-29	1.000000
rad45	1.83351e-29	1.000000	1.83353e-29	1.000000
rad36	1.14342e-30	1.000000	1.14343e-30	1.000000
rad24	3.59257e-31	1.000000	3.59260e-31	1.000000
rad47	1.27121e-36	1.000000	1.27122e-36	1.000000

0.100000000E-06 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.82690e-17 (1.00)	1.82688e-17 (1.00)
Formation of rad11	1.55456e-17 (0.851)	1.55454e-17 (0.851)
Formation of rad6	2.49126e-18 (0.136)	2.49124e-18 (0.136)
H-abstraction	2.32112e-19 (0.0127)	2.32112e-19 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.960215	0.960215	0.960226	0.960226
C2H2+PhCH2	0.0148648	0.975080	0.0148650	0.975091
Benzene+2-propynyl	0.0127053	0.987785	0.0127054	0.987796
PhCCH+CH3	0.00633609	0.994121	0.00633616	0.994133
PhCHCCH2+H	0.00341886	0.997540	0.00341890	0.997551
PhCCCH3+H	0.00221050	0.999751	0.00221053	0.999762
Ph+MeAc	0.000175874	0.999927	0.000175876	0.999938
rad8	2.49675e-05	0.999952	2.49677e-05	0.999963
rad9	1.90239e-05	0.999971	1.90241e-05	0.999982

PAH7+H	1.26511e-05	0.999983	1.26513e-05	0.999994
Phenyl+Allene	1.06964e-05	0.999994	0.00000	0.999994
rad39	2.40371e-06	0.999996	2.40374e-06	0.999997
rad12	1.33138e-06	0.999998	1.33139e-06	0.999998
rad30	1.02985e-06	0.999999	1.02986e-06	0.999999
PAH9+H	2.42818e-07	0.999999	2.42820e-07	0.999999
rad15	2.25264e-07	0.999999	2.25266e-07	1.000000
rad35	1.13321e-07	0.999999	1.13322e-07	1.000000
PhCH2CCH+H	1.02329e-07	0.999999	1.02330e-07	1.000000
rad38	6.90357e-08	0.999999	6.90365e-08	1.000000
rad37	1.61820e-08	0.999999	1.61822e-08	1.000000
rad46	9.53649e-10	0.999999	9.53658e-10	1.000000
rad5	2.34595e-10	0.999999	2.34598e-10	1.000000
rad60syn	1.12478e-10	0.999999	1.12480e-10	1.000000
rad60anti	3.68624e-11	0.999999	3.68628e-11	1.000000
rad6	4.02503e-13	0.999999	4.02508e-13	1.000000
PAH3+H	3.35192e-13	0.999999	3.35195e-13	1.000000
rad59	1.10713e-13	0.999999	1.10714e-13	1.000000
rad28	5.52977e-14	0.999999	5.52983e-14	1.000000
rad19syn	3.23698e-14	0.999999	3.23702e-14	1.000000
rad50	1.17726e-14	0.999999	1.17727e-14	1.000000
rad26	1.13664e-14	0.999999	1.13665e-14	1.000000
rad2	9.10923e-16	0.999999	9.10932e-16	1.000000
rad54	4.01275e-16	0.999999	4.01279e-16	1.000000
PAH10+CH3	2.74628e-16	0.999999	2.74631e-16	1.000000
rad43	6.64690e-17	0.999999	6.64697e-17	1.000000
rad1	6.19010e-17	0.999999	6.19017e-17	1.000000
rad10	4.62936e-17	0.999999	4.62940e-17	1.000000
rad7	2.98390e-17	0.999999	2.98393e-17	1.000000
rad62	1.17482e-17	0.999999	1.17484e-17	1.000000
rad3	1.05950e-17	0.999999	1.05951e-17	1.000000
rad11	7.39246e-18	0.999999	7.39254e-18	1.000000
rad4	5.46234e-18	0.999999	5.46240e-18	1.000000
rad14	2.37385e-18	0.999999	2.37388e-18	1.000000
rad25	1.27939e-18	0.999999	1.27941e-18	1.000000
rad52	1.25934e-18	0.999999	1.25935e-18	1.000000
PhcycC3H3_A+H	2.69647e-19	0.999999	2.69650e-19	1.000000
rad70	1.93309e-19	0.999999	1.93311e-19	1.000000
rad13	1.68793e-19	0.999999	1.68795e-19	1.000000
rad27	1.65864e-19	0.999999	1.65865e-19	1.000000
rad55	8.39747e-20	0.999999	8.39756e-20	1.000000
rad51	1.40662e-20	0.999999	1.40663e-20	1.000000
PAH1+H	3.58741e-21	0.999999	3.58745e-21	1.000000
rad33	4.11172e-22	0.999999	4.11177e-22	1.000000
rad58	1.90959e-22	0.999999	1.90961e-22	1.000000
rad34	1.67728e-22	0.999999	1.67730e-22	1.000000
rad65	7.40125e-23	0.999999	7.40132e-23	1.000000
rad31	5.79308e-23	0.999999	5.79314e-23	1.000000
rad42	1.88860e-24	0.999999	1.88862e-24	1.000000
rad41	5.19580e-25	0.999999	5.19585e-25	1.000000
rad20	3.41241e-25	0.999999	3.41245e-25	1.000000
rad21	2.82010e-25	0.999999	2.82013e-25	1.000000
rad23	2.08742e-27	0.999999	2.08744e-27	1.000000
rad18	6.29295e-28	0.999999	6.29302e-28	1.000000
rad22	3.46465e-29	0.999999	3.46469e-29	1.000000
rad45	3.33749e-29	0.999999	3.33753e-29	1.000000
rad36	2.08580e-30	0.999999	2.08583e-30	1.000000
rad24	4.04885e-31	0.999999	4.04890e-31	1.000000
rad47	7.49047e-36	0.999999	7.49055e-36	1.000000

0.100000000E-06 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.85520e-17 (1.00)	2.85516e-17 (1.00)
Formation of rad11	2.39009e-17 (0.837)	2.39006e-17 (0.837)
Formation of rad6	4.19900e-18 (0.147)	4.19894e-18 (0.147)
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.955394	0.955394	0.955407	0.955407
Benzene+2-propynyl	0.0158346	0.971229	0.0158348	0.971242
C2H2+PhCH2	0.0156096	0.986838	0.0156097	0.986851
PhCCH+CH3	0.00684740	0.993686	0.00684750	0.993699
PhCHCCH2+H	0.00365337	0.997339	0.00365343	0.997352
PhCCCH3+H	0.00236904	0.999708	0.00236907	0.999721
Ph+MeAc	0.000208313	0.999917	0.000208316	0.999930
rad8	2.73329e-05	0.999944	2.73333e-05	0.999957
rad9	2.16715e-05	0.999966	2.16718e-05	0.999979

PAH7+H	1.45866e-05	0.999980	1.45868e-05	0.999993
Phenyl+Allene	1.38821e-05	0.999994	0.00000	0.999993
rad39	2.85333e-06	0.999997	2.85337e-06	0.999996
rad12	1.50073e-06	0.999998	1.50075e-06	0.999998
rad30	1.10635e-06	1.000000	1.10637e-06	0.999999
PAH9+H	2.65318e-07	1.000000	2.65322e-07	0.999999
rad15	2.46002e-07	1.00000	2.46005e-07	0.999999
PhCH2CCH+H	1.62720e-07	1.00000	1.62723e-07	0.999999
rad35	1.22453e-07	1.00000	1.22454e-07	1.000000
rad38	7.60877e-08	1.00000	7.60888e-08	1.000000
rad37	2.28236e-08	1.00000	2.28240e-08	1.000000
rad46	1.11744e-09	1.00000	1.11745e-09	1.000000
rad5	3.86379e-10	1.00000	3.86384e-10	1.000000
rad60syn	1.42323e-10	1.00000	1.42325e-10	1.000000
rad60anti	4.79396e-11	1.00000	4.79403e-11	1.000000
PAH3+H	6.25712e-13	1.00000	6.25720e-13	1.000000
rad6	3.25985e-13	1.00000	3.25990e-13	1.000000
rad59	2.00722e-13	1.00000	2.00724e-13	1.000000
rad19syn	9.19288e-14	1.00000	9.19301e-14	1.000000
rad28	4.57381e-14	1.00000	4.57387e-14	1.000000
rad50	2.20050e-14	1.00000	2.20052e-14	1.000000
rad26	9.48477e-15	1.00000	9.48489e-15	1.000000
rad54	1.36990e-15	1.00000	1.36992e-15	1.000000
PAH10+CH3	9.35815e-16	1.00000	9.35829e-16	1.000000
rad2	9.33036e-16	1.00000	9.33050e-16	1.000000
rad43	2.25414e-16	1.00000	2.25418e-16	1.000000
rad1	6.39399e-17	1.00000	6.39408e-17	1.000000
rad10	4.78710e-17	1.00000	4.78717e-17	1.000000
rad62	4.46231e-17	1.00000	4.46238e-17	1.000000
rad7	2.42215e-17	1.00000	2.42218e-17	1.000000
rad3	1.13777e-17	1.00000	1.13779e-17	1.000000
rad11	6.00946e-18	1.00000	6.00955e-18	1.000000
rad4	5.87991e-18	1.00000	5.87998e-18	1.000000
rad52	3.57588e-18	1.00000	3.57592e-18	1.000000
rad14	2.03615e-18	1.00000	2.03618e-18	1.000000
PhcycC3H3_A+H	1.39649e-18	1.00000	1.39651e-18	1.000000
rad25	1.10714e-18	1.00000	1.10716e-18	1.000000
rad70	9.49279e-19	1.00000	9.49292e-19	1.000000
rad55	4.19552e-19	1.00000	4.19557e-19	1.000000
rad27	1.45158e-19	1.00000	1.45159e-19	1.000000
rad13	1.37238e-19	1.00000	1.37240e-19	1.000000
rad51	5.58854e-20	1.00000	5.58862e-20	1.000000
PAH1+H	2.22717e-20	1.00000	2.22720e-20	1.000000
rad34	1.09606e-21	1.00000	1.09606e-21	1.000000
rad58	1.01534e-21	1.00000	1.01536e-21	1.000000
rad65	3.46717e-22	1.00000	3.46720e-22	1.000000
rad33	3.46675e-22	1.00000	3.46680e-22	1.000000
rad31	7.40709e-23	1.00000	7.40720e-23	1.000000
rad42	1.39290e-23	1.00000	1.39292e-23	1.000000
rad41	3.90335e-24	1.00000	3.90341e-24	1.000000
rad20	3.39339e-25	1.00000	3.39344e-25	1.000000
rad21	2.82356e-25	1.00000	2.82360e-25	1.000000
rad23	3.72806e-27	1.00000	3.72812e-27	1.000000
rad18	5.96466e-28	1.00000	5.96475e-28	1.000000
rad45	6.39278e-29	1.00000	6.39287e-29	1.000000
rad22	3.18567e-29	1.00000	3.18572e-29	1.000000
rad36	4.00552e-30	1.00000	4.00558e-30	1.000000
rad24	4.61409e-31	1.00000	4.61415e-31	1.000000
rad47	3.66234e-35	1.00000	3.66239e-35	1.000000

0.100000000E-06 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.29529e-17 (1.00)	4.29521e-17 (1.00)
Formation of rad11	3.53712e-17 (0.823)	3.53705e-17 (0.823)
Formation of rad6	6.75433e-18 (0.157)	6.75421e-18 (0.157)
H-abstraction	8.27372e-19 (0.0193)	8.27372e-19 (0.0193)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.950149	0.950149	0.950166	0.950166
Benzene+2-propynyl	0.0192623	0.969412	0.0192627	0.969428
C2H2+PhCH2	0.0164074	0.985819	0.0164077	0.985836
PhCCH+CH3	0.00739805	0.993217	0.00739817	0.993234
PhCHCCH2+H	0.00390330	0.997121	0.00390336	0.997138
PhCCCH3+H	0.00253724	0.999658	0.00253729	0.999675
Ph+MeAc	0.000245753	0.999904	0.000245758	0.999921
rad8	2.98948e-05	0.999933	2.98954e-05	0.999951
rad9	2.46814e-05	0.999958	2.46818e-05	0.999975

Phenyl+Allene	1.79044e-05	0.999976	0.00000	0.999975
PAH7+H	1.68191e-05	0.999993	1.68194e-05	0.999992
rad39	3.38117e-06	0.999996	3.38124e-06	0.999996
rad12	1.68833e-06	0.999998	1.68836e-06	0.999997
rad30	1.19028e-06	0.999999	1.19030e-06	0.999998
PAH9+H	2.90621e-07	0.999999	2.90627e-07	0.999999
rad15	2.69097e-07	1.000000	2.69102e-07	0.999999
PhCH2CCH+H	2.52106e-07	1.000000	2.52111e-07	0.999999
rad35	1.32603e-07	1.000000	1.32605e-07	0.999999
rad38	8.40803e-08	1.000000	8.40818e-08	0.999999
rad37	3.13098e-08	1.000000	3.13103e-08	0.999999
rad46	1.31333e-09	1.000000	1.31334e-09	0.999999
rad5	6.14091e-10	1.000000	6.14101e-10	0.999999
rad60syn	1.79682e-10	1.000000	1.79686e-10	0.999999
rad60anti	6.20565e-11	1.000000	6.20576e-11	0.999999
PAH3+H	1.12268e-12	1.000000	1.12271e-12	0.999999
rad59	3.50300e-13	1.000000	3.50307e-13	0.999999
rad6	2.65026e-13	1.000000	2.65031e-13	0.999999
rad19syn	2.39064e-13	1.000000	2.39067e-13	0.999999
rad50	3.97496e-14	1.000000	3.97504e-14	0.999999
rad28	3.78717e-14	1.000000	3.78723e-14	0.999999
rad26	7.92022e-15	1.000000	7.92037e-15	0.999999
rad54	4.20837e-15	1.000000	4.20844e-15	0.999999
PAH10+CH3	2.86444e-15	1.000000	2.86449e-15	0.999999
rad2	9.59398e-16	1.000000	9.59415e-16	0.999999
rad43	6.85854e-16	1.000000	6.85867e-16	0.999999
rad62	1.50549e-16	1.000000	1.50552e-16	0.999999
rad1	6.63497e-17	1.000000	6.63509e-17	0.999999
rad10	5.05114e-17	1.000000	5.05123e-17	0.999999
rad7	1.97383e-17	1.000000	1.97386e-17	0.999999
rad3	1.20481e-17	1.000000	1.20483e-17	0.999999
rad52	9.36563e-18	1.000000	9.36580e-18	0.999999
rad4	6.24250e-18	1.000000	6.24261e-18	0.999999
PhcycC3H3_A+H	6.23506e-18	1.000000	6.23517e-18	0.999999
rad11	4.90484e-18	1.000000	4.90492e-18	0.999999
rad70	4.03527e-18	1.000000	4.03535e-18	0.999999
rad55	1.81229e-18	1.000000	1.81231e-18	0.999999
rad14	1.74864e-18	1.000000	1.74867e-18	0.999999
rad25	9.59525e-19	1.000000	9.59543e-19	0.999999
rad51	1.98110e-19	1.000000	1.98114e-19	0.999999
rad27	1.27278e-19	1.000000	1.27281e-19	0.999999
PAH1+H	1.16260e-19	1.000000	1.16262e-19	0.999999
rad13	1.12028e-19	1.000000	1.12031e-19	0.999999
rad34	5.98216e-21	1.000000	5.98226e-21	0.999999
rad58	4.64426e-21	1.000000	4.64435e-21	0.999999
rad65	1.42039e-21	1.000000	1.42042e-21	0.999999
rad33	2.94806e-22	1.000000	2.94812e-22	0.999999
rad31	9.65147e-23	1.000000	9.65164e-23	0.999999
rad42	8.43153e-23	1.000000	8.43168e-23	0.999999
rad41	2.40058e-23	1.000000	2.40063e-23	0.999999
rad20	3.39459e-25	1.000000	3.39465e-25	0.999999
rad21	2.84494e-25	1.000000	2.84499e-25	0.999999
rad23	7.02848e-27	1.000000	7.02860e-27	0.999999
rad18	5.67197e-28	1.000000	5.67206e-28	0.999999
rad45	1.26407e-28	1.000000	1.26409e-28	0.999999
rad22	2.93620e-29	1.000000	2.93626e-29	0.999999
rad36	7.94394e-30	1.000000	7.94407e-30	0.999999
rad24	5.31818e-31	1.000000	5.31826e-31	0.999999
rad47	1.52506e-34	1.000000	1.52509e-34	0.999999

0.100000000E-06 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.25016e-17 (1.00)	6.25002e-17 (1.00)
Formation of rad11	5.06355e-17 (0.810)	5.06343e-17 (0.810)
Formation of rad6	1.04318e-17 (0.167)	1.04316e-17 (0.167)
H-abstraction	1.43428e-18 (0.0229)	1.43428e-18 (0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.944516	0.944516	0.944538	0.944538
Benzene+2-propynyl	0.0229478	0.967464	0.0229483	0.967487
C2H2+PhCH2	0.0172620	0.984726	0.0172624	0.984749
PhCCH+CH3	0.00798934	0.992715	0.00798953	0.992739
PhCHCCH2+H	0.00416891	0.996884	0.00416900	0.996908
PhCCCH3+H	0.00271501	0.999599	0.00271508	0.999623
Ph+MeAc	0.000288722	0.999888	0.000288729	0.999911
rad8	3.26588e-05	0.999921	3.26596e-05	0.999944
rad9	2.80959e-05	0.999949	2.80966e-05	0.999972

Phenyl+Allene	2.29541e-05	0.999972	0.00000	0.999972
PAH7+H	1.93896e-05	0.999991	1.93901e-05	0.999991
rad39	3.99904e-06	0.999995	3.99913e-06	0.999995
rad12	1.89523e-06	0.999997	1.89528e-06	0.999997
rad30	1.28232e-06	0.999998	1.28235e-06	0.999999
PhCH2CCH+H	3.81725e-07	0.999999	3.81733e-07	0.999999
PAH9+H	3.19092e-07	0.999999	3.19099e-07	0.999999
rad15	2.94804e-07	0.999999	2.94811e-07	1.000000
rad35	1.43889e-07	1.000000	1.43891e-07	1.000000
rad38	9.31436e-08	1.000000	9.31458e-08	1.000000
rad37	4.19468e-08	1.000000	4.19478e-08	1.000000
rad46	1.54768e-09	1.000000	1.54772e-09	1.000000
rad5	9.45890e-10	1.000000	9.45912e-10	1.000000
rad60syn	2.26301e-10	1.000000	2.26306e-10	1.000000
rad60anti	7.99726e-11	1.000000	7.99744e-11	1.000000
PAH3+H	1.94646e-12	1.000000	1.94651e-12	1.000000
rad59	5.91558e-13	1.000000	5.91573e-13	1.000000
rad19syn	5.76047e-13	1.000000	5.76061e-13	1.000000
rad6	2.16245e-13	1.000000	2.16250e-13	1.000000
rad50	6.96959e-14	1.000000	6.96975e-14	1.000000
rad28	3.13857e-14	1.000000	3.13864e-14	1.000000
rad54	1.17979e-14	1.000000	1.17982e-14	1.000000
PAH10+CH3	7.98676e-15	1.000000	7.98694e-15	1.000000
rad26	6.61754e-15	1.000000	6.61769e-15	1.000000
rad43	1.89885e-15	1.000000	1.89890e-15	1.000000
rad2	1.07419e-15	1.000000	1.07421e-15	1.000000
rad62	4.58150e-16	1.000000	4.58160e-16	1.000000
rad1	7.50266e-17	1.000000	7.50283e-17	1.000000
rad10	5.50734e-17	1.000000	5.50747e-17	1.000000
PhcycC3H3_A+H	2.44417e-17	1.000000	2.44422e-17	1.000000
rad52	2.28788e-17	1.000000	2.28794e-17	1.000000
rad7	1.61442e-17	1.000000	1.61446e-17	1.000000
rad70	1.51220e-17	1.000000	1.51224e-17	1.000000
rad3	1.33407e-17	1.000000	1.33410e-17	1.000000
rad4	6.93180e-18	1.000000	6.93197e-18	1.000000
rad55	6.89280e-18	1.000000	6.89295e-18	1.000000
rad11	4.01851e-18	1.000000	4.01860e-18	1.000000
rad14	1.50347e-18	1.000000	1.50351e-18	1.000000
rad25	8.32800e-19	1.000000	8.32819e-19	1.000000
rad51	6.35770e-19	1.000000	6.35785e-19	1.000000
PAH1+H	5.21365e-19	1.000000	5.21376e-19	1.000000
rad27	1.11808e-19	1.000000	1.11811e-19	1.000000
rad13	9.17946e-20	1.000000	9.17967e-20	1.000000
rad34	2.78859e-20	1.000000	2.78865e-20	1.000000
rad58	1.86124e-20	1.000000	1.86127e-20	1.000000
rad65	5.17416e-21	1.000000	5.17428e-21	1.000000
rad42	4.29489e-22	1.000000	4.29498e-22	1.000000
rad33	2.52917e-22	1.000000	2.52923e-22	1.000000
rad31	1.28091e-22	1.000000	1.28093e-22	1.000000
rad41	1.23970e-22	1.000000	1.23973e-22	1.000000
rad20	3.41621e-25	1.000000	3.41629e-25	1.000000
rad21	2.88488e-25	1.000000	2.88495e-25	1.000000
rad23	1.39901e-26	1.000000	1.39904e-26	1.000000
rad18	5.41089e-28	1.000000	5.41101e-28	1.000000
rad45	2.83475e-28	1.000000	2.83482e-28	1.000000
rad22	2.71354e-29	1.000000	2.71359e-29	1.000000
rad36	1.78766e-29	1.000000	1.78771e-29	1.000000
rad24	6.20124e-31	1.000000	6.20139e-31	1.000000
rad47	5.52650e-34	1.000000	5.52662e-34	1.000000

0.100000000E-06 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83247e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04056e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55476e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.938534	0.938534	0.938561	0.938561
Benzene+2-propynyl	0.0268483	0.965382	0.0268490	0.965410
C2H2+PhCH2	0.0181765	0.983559	0.0181770	0.983587
PhCCH+CH3	0.00862242	0.992181	0.00862267	0.992210
PhCHCCH2+H	0.00445040	0.996631	0.00445053	0.996661
PhCCCH3+H	0.00290218	0.999534	0.00290227	0.999563
Ph+MeAc	0.000337756	0.999871	0.000337766	0.999901
rad8	3.56292e-05	0.999907	3.56303e-05	0.999936
rad9	3.19608e-05	0.999939	3.19618e-05	0.999968

Phenyl+Allene	2.92582e-05	0.999968	0.00000	0.999968
PAH7+H	2.23437e-05	0.999991	2.23443e-05	0.999990
rad39	4.72009e-06	0.999995	4.72023e-06	0.999995
rad12	2.12237e-06	0.999997	2.12243e-06	0.999997
rad30	1.38320e-06	0.999999	1.38324e-06	0.999999
PhCH2CCH+H	5.66274e-07	0.999999	5.66291e-07	0.999999
PAH9+H	3.51137e-07	1.000000	3.51147e-07	1.000000
rad15	3.23401e-07	1.000000	3.23410e-07	1.000000
rad35	1.56440e-07	1.000000	1.56445e-07	1.000000
rad38	1.03425e-07	1.000000	1.03427e-07	1.000000
rad37	5.50654e-08	1.000000	5.50670e-08	1.000000
rad46	1.82808e-09	1.000000	1.82813e-09	1.000000
rad5	1.41703e-09	1.000000	1.41706e-09	1.000000
rad60syn	2.84281e-10	1.000000	2.84290e-10	1.000000
rad60anti	1.02613e-10	1.000000	1.02616e-10	1.000000
PAH3+H	3.27489e-12	1.000000	3.27499e-12	1.000000
rad19syn	1.29873e-12	1.000000	1.29877e-12	1.000000
rad59	9.70704e-13	1.000000	9.70733e-13	1.000000
rad6	1.77067e-13	1.000000	1.77072e-13	1.000000
rad50	1.19032e-13	1.000000	1.19036e-13	1.000000
rad54	3.05322e-14	1.000000	3.05331e-14	1.000000
rad28	2.60293e-14	1.000000	2.60300e-14	1.000000
PAH10+CH3	2.05205e-14	1.000000	2.05210e-14	1.000000
rad26	5.53170e-15	1.000000	5.53186e-15	1.000000
rad43	4.83974e-15	1.000000	4.83988e-15	1.000000
rad62	1.27363e-15	1.000000	1.27366e-15	1.000000
rad2	1.20759e-15	1.000000	1.20762e-15	1.000000
PhcycC3H3_A+H	8.53910e-17	1.000000	8.53936e-17	1.000000
rad1	8.52500e-17	1.000000	8.52526e-17	1.000000
rad10	6.12767e-17	1.000000	6.12785e-17	1.000000
rad52	5.25993e-17	1.000000	5.26009e-17	1.000000
rad70	5.07092e-17	1.000000	5.07107e-17	1.000000
rad55	2.34300e-17	1.000000	2.34307e-17	1.000000
rad3	1.47854e-17	1.000000	1.47859e-17	1.000000
rad7	1.32523e-17	1.000000	1.32527e-17	1.000000
rad4	7.70606e-18	1.000000	7.70628e-18	1.000000
rad11	3.30467e-18	1.000000	3.30476e-18	1.000000
PAH1+H	2.04480e-18	1.000000	2.04486e-18	1.000000
rad51	1.86868e-18	1.000000	1.86873e-18	1.000000
rad14	1.29413e-18	1.000000	1.29416e-18	1.000000
rad25	7.23843e-19	1.000000	7.23864e-19	1.000000
rad34	1.13110e-19	1.000000	1.13113e-19	1.000000
rad27	9.83983e-20	1.000000	9.84011e-20	1.000000
rad13	7.54944e-20	1.000000	7.54966e-20	1.000000
rad58	6.63439e-20	1.000000	6.63458e-20	1.000000
rad65	1.69869e-20	1.000000	1.69874e-20	1.000000
rad42	1.87991e-21	1.000000	1.87996e-21	1.000000
rad41	5.49128e-22	1.000000	5.49144e-22	1.000000
rad33	2.18985e-22	1.000000	2.18992e-22	1.000000
rad31	1.73028e-22	1.000000	1.73033e-22	1.000000
rad20	3.45900e-25	1.000000	3.45909e-25	1.000000
rad21	2.94451e-25	1.000000	2.94460e-25	1.000000
rad23	2.93642e-26	1.000000	2.93650e-26	1.000000
rad45	6.36891e-28	1.000000	6.36909e-28	1.000000
rad18	5.17821e-28	1.000000	5.17836e-28	1.000000
rad36	4.03242e-29	1.000000	4.03254e-29	1.000000
rad22	2.51643e-29	1.000000	2.51651e-29	1.000000
rad24	7.31766e-31	1.000000	7.31788e-31	1.000000
rad47	1.77440e-33	1.000000	1.77444e-33	1.000000

0.100000000E-06 Pa, 250.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.21641e-16	(1.00)	1.21637e-16	(1.00)
Formation of rad11	9.54219e-17	(0.784)	9.54182e-17	(0.784)
Formation of rad6	2.24583e-17	(0.185)	2.24574e-17	(0.185)
H-abstraction	3.76121e-18	(0.0309)	3.76121e-18	(0.0309)
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.932238	0.932238	0.932273	0.932273
Benzene+2-propynyl	0.0309205	0.963159	0.0309216	0.963194
C2H2+PhCH2	0.0191545	0.982313	0.0191552	0.982350
PhCCH+CH3	0.00929819	0.991611	0.00929853	0.991648
PhCHCCH2+H	0.00474790	0.996359	0.00474808	0.996396
PhCCCH3+H	0.00309847	0.999458	0.00309858	0.999495
Ph+MeAc	0.000393389	0.999851	0.000393404	0.999888
rad8	3.88087e-05	0.999890	3.88101e-05	0.999927
Phenyl+Allene	3.70854e-05	0.999927	0.00000	0.999927

rad9	3.63256e-05	0.999963	3.63269e-05	0.999963
PAH7+H	2.57316e-05	0.999989	2.57325e-05	0.999989
rad39	5.55892e-06	0.999994	5.55913e-06	0.999995
rad12	2.37059e-06	0.999997	2.37068e-06	0.999997
rad30	1.49366e-06	0.999998	1.49372e-06	0.999998
PhCH2CCH+H	8.24732e-07	0.999999	8.24763e-07	0.999999
PAH9+H	3.87212e-07	1.000000	3.87226e-07	1.000000
rad15	3.55186e-07	1.000000	3.55199e-07	1.000000
rad35	1.70400e-07	1.000000	1.70406e-07	1.000000
rad38	1.15089e-07	1.000000	1.15094e-07	1.000000
rad37	7.10210e-08	1.000000	7.10237e-08	1.000000
rad46	2.16347e-09	1.000000	2.16355e-09	1.000000
rad5	2.07075e-09	1.000000	2.07082e-09	1.000000
rad60syn	3.56138e-10	1.000000	3.56151e-10	1.000000
rad60anti	1.31095e-10	1.000000	1.31100e-10	1.000000
PAH3+H	5.36551e-12	1.000000	5.36571e-12	1.000000
rad19syn	2.76179e-12	1.000000	2.76189e-12	1.000000
rad59	1.55301e-12	1.000000	1.55306e-12	1.000000
rad50	1.98576e-13	1.000000	1.98583e-13	1.000000
rad6	1.45512e-13	1.000000	1.45518e-13	1.000000
rad54	7.36305e-14	1.000000	7.36332e-14	1.000000
PAH10+CH3	4.90483e-14	1.000000	4.90502e-14	1.000000
rad28	2.15999e-14	1.000000	2.16008e-14	1.000000
rad43	1.14663e-14	1.000000	1.14667e-14	1.000000
rad26	4.62585e-15	1.000000	4.62603e-15	1.000000
rad62	3.26830e-15	1.000000	3.26842e-15	1.000000
rad2	1.34061e-15	1.000000	1.34067e-15	1.000000
PhcycC3H3_A+H	2.69202e-16	1.000000	2.69212e-16	1.000000
rad70	1.54047e-16	1.000000	1.54052e-16	1.000000
rad52	1.14634e-16	1.000000	1.14638e-16	1.000000
rad1	9.57387e-17	1.000000	9.57421e-17	1.000000
rad55	7.20614e-17	1.000000	7.20642e-17	1.000000
rad10	6.92903e-17	1.000000	6.92928e-17	1.000000
rad3	1.65243e-17	1.000000	1.65249e-17	1.000000
rad7	1.09187e-17	1.000000	1.09191e-17	1.000000
rad4	8.64107e-18	1.000000	8.64139e-18	1.000000
PAH1+H	7.11981e-18	1.000000	7.12007e-18	1.000000
rad51	5.07774e-18	1.000000	5.07793e-18	1.000000
rad11	2.72807e-18	1.000000	2.72817e-18	1.000000
rad14	1.11518e-18	1.000000	1.11523e-18	1.000000
rad25	6.30041e-19	1.000000	6.30065e-19	1.000000
rad34	4.05530e-19	1.000000	4.05545e-19	1.000000
rad58	2.12987e-19	1.000000	2.12995e-19	1.000000
rad27	8.67570e-20	1.000000	8.67602e-20	1.000000
rad13	6.23250e-20	1.000000	6.23272e-20	1.000000
rad65	5.08172e-20	1.000000	5.08191e-20	1.000000
rad42	7.19654e-21	1.000000	7.19680e-21	1.000000
rad41	2.12408e-21	1.000000	2.12415e-21	1.000000
rad31	2.37693e-22	1.000000	2.37701e-22	1.000000
rad33	1.91455e-22	1.000000	1.91462e-22	1.000000
rad20	3.52422e-25	1.000000	3.52435e-25	1.000000
rad21	3.02551e-25	1.000000	3.02563e-25	1.000000
rad23	6.48883e-26	1.000000	6.48907e-26	1.000000
rad45	1.55141e-27	1.000000	1.55147e-27	1.000000
rad18	4.97129e-28	1.000000	4.97147e-28	1.000000
rad36	9.86678e-29	1.000000	9.86716e-29	1.000000
rad22	2.34602e-29	1.000000	2.34610e-29	1.000000
rad24	8.74180e-31	1.000000	8.74211e-31	1.000000
rad47	5.12438e-33	1.000000	5.12457e-33	1.000000

0.100000000E-06 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.63720e-16 (1.00)	1.63713e-16 (1.00)
Formation of rad11	1.26419e-16 (0.772)	1.26412e-16 (0.772)
Formation of rad6	3.15515e-17 (0.193)	3.15499e-17 (0.193)
H-abstraction	5.75028e-18 (0.0351)	5.75028e-18 (0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.925667	0.925667	0.925710	0.925710
Benzene+2-propynyl	0.0351226	0.960789	0.0351242	0.960834
C2H2+PhCH2	0.0201996	0.980989	0.0202005	0.981034
PhCCH+CH3	0.0100173	0.991006	0.0100178	0.991052
PhCHCCH2+H	0.00506140	0.996068	0.00506164	0.996114
PhCCCH3+H	0.00330345	0.999371	0.00330361	0.999417
Ph+MeAc	0.000456147	0.999827	0.000456168	0.999874
Phenyl+Allene	4.67507e-05	0.999874	0.00000	0.999874
rad8	4.21979e-05	0.999916	4.21999e-05	0.999916

rad9	4.12431e-05	0.999957	4.12451e-05	0.999957
PAH7+H	2.96087e-05	0.999987	2.96101e-05	0.999987
rad39	6.53165e-06	0.999994	6.53196e-06	0.999993
rad12	2.64056e-06	0.999996	2.64068e-06	0.999996
rad30	1.61454e-06	0.999998	1.61461e-06	0.999997
PhCH2CCH+H	1.18129e-06	0.999999	1.18135e-06	0.999999
PAH9+H	4.27825e-07	0.999999	4.27844e-07	0.999999
rad15	3.90481e-07	1.000000	3.90499e-07	0.999999
rad35	1.85924e-07	1.000000	1.85933e-07	1.000000
rad38	1.28322e-07	1.000000	1.28328e-07	1.000000
rad37	9.01918e-08	1.000000	9.01961e-08	1.000000
rad5	2.95912e-09	1.000000	2.95926e-09	1.000000
rad46	2.56443e-09	1.000000	2.56455e-09	1.000000
rad60syn	4.44858e-10	1.000000	4.44879e-10	1.000000
rad60anti	1.66766e-10	1.000000	1.66774e-10	1.000000
PAH3+H	8.58430e-12	1.000000	8.58470e-12	1.000000
rad19syn	5.57650e-12	1.000000	5.57676e-12	1.000000
rad59	2.42911e-12	1.000000	2.42922e-12	1.000000
rad50	3.24314e-13	1.000000	3.24329e-13	1.000000
rad54	1.66745e-13	1.000000	1.66753e-13	1.000000
rad6	1.20047e-13	1.000000	1.20053e-13	1.000000
PAH10+CH3	1.09928e-13	1.000000	1.09934e-13	1.000000
rad43	2.54567e-14	1.000000	2.54579e-14	1.000000
rad28	1.79335e-14	1.000000	1.79343e-14	1.000000
rad62	7.80914e-15	1.000000	7.80950e-15	1.000000
rad26	3.86972e-15	1.000000	3.86989e-15	1.000000
rad2	1.57894e-15	1.000000	1.57902e-15	1.000000
PhcycC3H3_A+H	7.73853e-16	1.000000	7.73889e-16	1.000000
rad70	4.28321e-16	1.000000	4.28340e-16	1.000000
rad52	2.38196e-16	1.000000	2.38208e-16	1.000000
rad55	2.02608e-16	1.000000	2.02617e-16	1.000000
rad1	1.14169e-16	1.000000	1.14175e-16	1.000000
rad10	7.98237e-17	1.000000	7.98275e-17	1.000000
PAH1+H	2.22906e-17	1.000000	2.22916e-17	1.000000
rad3	1.90620e-17	1.000000	1.90630e-17	1.000000
rad51	1.28526e-17	1.000000	1.28531e-17	1.000000
rad4	1.00040e-17	1.000000	1.00045e-17	1.000000
rad7	9.03186e-18	1.000000	9.03228e-18	1.000000
rad11	2.26135e-18	1.000000	2.26147e-18	1.000000
rad34	1.30240e-18	1.000000	1.30246e-18	1.000000
rad14	9.62062e-19	1.000000	9.62107e-19	1.000000
rad58	6.22358e-19	1.000000	6.22387e-19	1.000000
rad25	5.49195e-19	1.000000	5.49221e-19	1.000000
rad65	1.39790e-19	1.000000	1.39797e-19	1.000000
rad27	7.66365e-20	1.000000	7.66401e-20	1.000000
rad13	5.16633e-20	1.000000	5.16657e-20	1.000000
rad42	2.44584e-20	1.000000	2.44595e-20	1.000000
rad41	7.28487e-21	1.000000	7.28522e-21	1.000000
rad31	3.31701e-22	1.000000	3.31716e-22	1.000000
rad33	1.69117e-22	1.000000	1.69125e-22	1.000000
rad20	3.61375e-25	1.000000	3.61391e-25	1.000000
rad21	3.13018e-25	1.000000	3.13033e-25	1.000000
rad23	1.50559e-25	1.000000	1.50566e-25	1.000000
rad45	4.08658e-27	1.000000	4.08678e-27	1.000000
rad18	4.78798e-28	1.000000	4.78821e-28	1.000000
rad36	2.61221e-28	1.000000	2.61233e-28	1.000000
rad22	2.20785e-29	1.000000	2.20795e-29	1.000000
rad24	1.05762e-30	1.000000	1.05768e-30	1.000000
rad47	1.34824e-32	1.000000	1.34831e-32	1.000000

0.100000000E-06 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.15887e-16 (1.00)	2.15874e-16 (1.00)
Formation of rad11	1.64133e-16 (0.760)	1.64123e-16 (0.760)
Formation of rad6	4.32452e-17 (0.200)	4.32425e-17 (0.200)
H-abstraction	8.50919e-18 (0.0394)	8.50919e-18 (0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.918855	0.918855	0.918909	0.918909
Benzene+2-propynyl	0.0394150	0.958270	0.0394174	0.958326
C2H2+PhCH2	0.0213152	0.979585	0.0213165	0.979643
PhCCH+CH3	0.0107802	0.990366	0.0107808	0.990423
PhCHCCH2+H	0.00539082	0.995756	0.00539114	0.995815
PhCCCH3+H	0.00351662	0.999273	0.00351683	0.999331
Ph+MeAc	0.000526534	0.999800	0.000526565	0.999858
Phenyl+Allene	5.86215e-05	0.999858	0.000000	0.999858
rad9	4.67701e-05	0.999905	4.67729e-05	0.999905

rad8	4.57957e-05	0.999951	4.57984e-05	0.999950
PAH7+H	3.40354e-05	0.999985	3.40374e-05	0.999985
rad39	7.65593e-06	0.999992	7.65638e-06	0.999992
rad12	2.93280e-06	0.999995	2.93297e-06	0.999995
rad30	1.74667e-06	0.999997	1.74677e-06	0.999997
PhCH2CCH+H	1.66641e-06	0.999999	1.66651e-06	0.999999
PAH9+H	4.73536e-07	0.999999	4.73563e-07	0.999999
rad15	4.29628e-07	1.000000	4.29654e-07	0.999999
rad35	2.03184e-07	1.000000	2.03196e-07	1.000000
rad38	1.43332e-07	1.000000	1.43341e-07	1.000000
rad37	1.12976e-07	1.000000	1.12984e-07	1.000000
rad5	4.14380e-09	1.000000	4.14405e-09	1.000000
rad46	3.04333e-09	1.000000	3.04351e-09	1.000000
rad60syn	5.53969e-10	1.000000	5.54003e-10	1.000000
rad60anti	2.11228e-10	1.000000	2.11241e-10	1.000000
PAH3+H	1.34418e-11	1.000000	1.34427e-11	1.000000
rad19syn	1.07500e-11	1.000000	1.07506e-11	1.000000
rad59	3.72269e-12	1.000000	3.72291e-12	1.000000
rad50	5.19450e-13	1.000000	5.19480e-13	1.000000
rad54	3.56851e-13	1.000000	3.56872e-13	1.000000
PAH10+CH3	2.32537e-13	1.000000	2.32551e-13	1.000000
rad6	9.94782e-14	1.000000	9.94837e-14	1.000000
rad43	5.33186e-14	1.000000	5.33217e-14	1.000000
rad62	1.74991e-14	1.000000	1.75001e-14	1.000000
rad28	1.48961e-14	1.000000	1.48969e-14	1.000000
rad26	3.23824e-15	1.000000	3.23842e-15	1.000000
PhcycC3H3_A+H	2.04647e-15	1.000000	2.04659e-15	1.000000
rad2	1.83113e-15	1.000000	1.83124e-15	1.000000
rad70	1.09950e-15	1.000000	1.09956e-15	1.000000
rad55	5.25298e-16	1.000000	5.25328e-16	1.000000
rad52	4.74038e-16	1.000000	4.74066e-16	1.000000
rad1	1.34183e-16	1.000000	1.34191e-16	1.000000
rad10	9.28236e-17	1.000000	9.28291e-17	1.000000
PAH1+H	6.34376e-17	1.000000	6.34413e-17	1.000000
rad51	3.04906e-17	1.000000	3.04924e-17	1.000000
rad3	2.18695e-17	1.000000	2.18708e-17	1.000000
rad4	1.15220e-17	1.000000	1.15228e-17	1.000000
rad7	7.50484e-18	1.000000	7.50528e-18	1.000000
rad34	3.78996e-18	1.000000	3.79018e-18	1.000000
rad11	1.88323e-18	1.000000	1.88334e-18	1.000000
rad58	1.67024e-18	1.000000	1.67033e-18	1.000000
rad14	8.30935e-19	1.000000	8.30983e-19	1.000000
rad25	4.79444e-19	1.000000	4.79472e-19	1.000000
rad65	3.56318e-19	1.000000	3.56339e-19	1.000000
rad42	7.47520e-20	1.000000	7.47564e-20	1.000000
rad27	6.78277e-20	1.000000	6.78316e-20	1.000000
rad13	4.30240e-20	1.000000	4.30265e-20	1.000000
rad41	2.24435e-20	1.000000	2.24449e-20	1.000000
rad31	4.69633e-22	1.000000	4.69661e-22	1.000000
rad33	1.51033e-22	1.000000	1.51041e-22	1.000000
rad20	3.73008e-25	1.000000	3.73030e-25	1.000000
rad23	3.65365e-25	1.000000	3.65386e-25	1.000000
rad21	3.26153e-25	1.000000	3.26173e-25	1.000000
rad45	1.04091e-26	1.000000	1.04097e-26	1.000000
rad36	6.69155e-28	1.000000	6.69195e-28	1.000000
rad18	4.62655e-28	1.000000	4.62683e-28	1.000000
rad22	2.11698e-29	1.000000	2.11710e-29	1.000000
rad24	1.29642e-30	1.000000	1.29650e-30	1.000000
rad47	3.26704e-32	1.000000	3.26723e-32	1.000000

0.100000000E-06 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.79491e-16 (1.00)	2.79471e-16 (1.00)
Formation of rad11	2.09281e-16 (0.749)	2.09265e-16 (0.749)
Formation of rad6	5.79792e-17 (0.207)	5.79748e-17 (0.207)
H-abstraction	1.22310e-17 (0.0438)	1.22310e-17 (0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.911836	0.911836	0.911902	0.911902
Benzene+2-propynyl	0.0437616	0.955597	0.0437648	0.955667
C2H2+PhCH2	0.0225047	0.978102	0.0225063	0.978173
PhCCH+CH3	0.0115868	0.989689	0.0115877	0.989761
PhCHCCH2+H	0.00573596	0.995425	0.00573638	0.995497
PhCCCH3+H	0.00373733	0.999162	0.00373761	0.999235
Ph+MeAc	0.000605023	0.999767	0.000605066	0.999840
Phenyl+Allene	7.31230e-05	0.999840	0.00000	0.999840
rad9	5.29667e-05	0.999893	5.29706e-05	0.999893

rad8	4.95984e-05	0.999943	4.96019e-05	0.999943
PAH7+H	3.90775e-05	0.999982	3.90804e-05	0.999982
rad39	8.95099e-06	0.999991	8.95164e-06	0.999991
rad12	3.24760e-06	0.999994	3.24783e-06	0.999994
PhCH2CCH+H	2.31799e-06	0.999996	2.31816e-06	0.999996
rad30	1.89092e-06	0.999998	1.89106e-06	0.999998
PAH9+H	5.24964e-07	0.999999	5.25003e-07	0.999999
rad15	4.72994e-07	0.999999	4.73029e-07	0.999999
rad35	2.22364e-07	0.999999	2.22380e-07	0.999999
rad38	1.60350e-07	0.999999	1.60362e-07	1.000000
rad37	1.39791e-07	1.000000	1.39801e-07	1.000000
rad5	5.69647e-09	1.000000	5.69689e-09	1.000000
rad46	3.61467e-09	1.000000	3.61492e-09	1.000000
rad60syn	6.87605e-10	1.000000	6.87656e-10	1.000000
rad60anti	2.66381e-10	1.000000	2.66400e-10	1.000000
PAH3+H	2.06375e-11	1.000000	2.06390e-11	1.000000
rad19syn	1.98736e-11	1.000000	1.98751e-11	1.000000
rad59	5.59977e-12	1.000000	5.60018e-12	1.000000
rad50	8.17024e-13	1.000000	8.17084e-13	1.000000
rad54	7.25446e-13	1.000000	7.25499e-13	1.000000
PAH10+CH3	4.66810e-13	1.000000	4.66845e-13	1.000000
rad43	1.05951e-13	1.000000	1.05959e-13	1.000000
rad6	8.28746e-14	1.000000	8.28807e-14	1.000000
rad62	3.69972e-14	1.000000	3.69999e-14	1.000000
rad28	1.23780e-14	1.000000	1.23789e-14	1.000000
PhcycC3H3_A+H	5.01695e-15	1.000000	5.01732e-15	1.000000
rad26	2.71070e-15	1.000000	2.71089e-15	1.000000
rad70	2.62501e-15	1.000000	2.62520e-15	1.000000
rad2	2.14729e-15	1.000000	2.14745e-15	1.000000
rad55	1.26527e-15	1.000000	1.26537e-15	1.000000
rad52	9.06731e-16	1.000000	9.06798e-16	1.000000
PAH1+H	1.65665e-16	1.000000	1.65678e-16	1.000000
rad1	1.59619e-16	1.000000	1.59630e-16	1.000000
rad10	1.11092e-16	1.000000	1.11100e-16	1.000000
rad51	6.81450e-17	1.000000	6.81499e-17	1.000000
rad3	2.60563e-17	1.000000	2.60582e-17	1.000000
rad4	1.37853e-17	1.000000	1.37863e-17	1.000000
rad34	1.00923e-17	1.000000	1.00931e-17	1.000000
rad7	6.26996e-18	1.000000	6.27042e-18	1.000000
rad58	4.14902e-18	1.000000	4.14932e-18	1.000000
rad11	1.57707e-18	1.000000	1.57719e-18	1.000000
rad65	8.47088e-19	1.000000	8.47150e-19	1.000000
rad14	7.18551e-19	1.000000	7.18604e-19	1.000000
rad25	4.19210e-19	1.000000	4.19240e-19	1.000000
rad42	2.07735e-19	1.000000	2.07750e-19	1.000000
rad41	6.28127e-20	1.000000	6.28173e-20	1.000000
rad27	6.01521e-20	1.000000	6.01565e-20	1.000000
rad13	3.60291e-20	1.000000	3.60317e-20	1.000000
rad31	6.73623e-22	1.000000	6.73673e-22	1.000000
rad33	1.36472e-22	1.000000	1.36482e-22	1.000000
rad23	9.23541e-25	1.000000	9.23608e-25	1.000000
rad20	3.87650e-25	1.000000	3.87679e-25	1.000000
rad21	3.42344e-25	1.000000	3.42369e-25	1.000000
rad45	2.95590e-26	1.000000	2.95611e-26	1.000000
rad36	1.91209e-27	1.000000	1.91223e-27	1.000000
rad18	4.48559e-28	1.000000	4.48592e-28	1.000000
rad22	2.10956e-29	1.000000	2.10971e-29	1.000000
rad24	1.61077e-30	1.000000	1.61089e-30	1.000000
rad47	7.35922e-32	1.000000	7.35976e-32	1.000000

0.100000000E-06 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.55893e-16 (1.00)	3.55861e-16 (1.00)
Formation of rad11	2.62555e-16 (0.738)	2.62530e-16 (0.738)
Formation of rad6	7.62093e-17 (0.214)	7.62020e-17 (0.214)
H-abstraction	1.71289e-17 (0.0481)	1.71289e-17 (0.0481)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.904639	0.904639	0.904720	0.904720
Benzene+2-propynyl	0.0481294	0.952768	0.0481337	0.952854
C2H2+PhCH2	0.0237714	0.976540	0.0237736	0.976628
PhCCH+CH3	0.0124370	0.988977	0.0124382	0.989066
PhCHCCH2+H	0.00609652	0.995073	0.00609707	0.995163
PhCCCH3+H	0.00396486	0.999038	0.00396521	0.999128
Ph+MeAc	0.000692044	0.999730	0.000692108	0.999820
Phenyl+Allene	9.07432e-05	0.999821	0.000000	0.999820
rad9	5.98963e-05	0.999881	5.99017e-05	0.999880

rad8	5.36002e-05	0.999934	5.36051e-05	0.999934
PAH7+H	4.48060e-05	0.999979	4.48101e-05	0.999979
rad39	1.04376e-05	0.999990	1.04385e-05	0.999989
rad12	3.58504e-06	0.999993	3.58537e-06	0.999993
PhCH2CCH+H	3.18249e-06	0.999996	3.18278e-06	0.999996
rad30	2.04821e-06	0.999998	2.04840e-06	0.999998
PAH9+H	5.82789e-07	0.999999	5.82842e-07	0.999998
rad15	5.20961e-07	0.999999	5.21008e-07	0.999999
rad35	2.43664e-07	1.000000	2.43686e-07	0.999999
rad38	1.79629e-07	1.000000	1.79646e-07	0.999999
rad37	1.71060e-07	1.000000	1.71075e-07	1.000000
rad5	7.69912e-09	1.000000	7.69982e-09	1.000000
rad46	4.29520e-09	1.000000	4.29559e-09	1.000000
rad60syn	8.50567e-10	1.000000	8.50644e-10	1.000000
rad60anti	3.34453e-10	1.000000	3.34484e-10	1.000000
rad19syn	3.53639e-11	1.000000	3.53671e-11	1.000000
PAH3+H	3.11103e-11	1.000000	3.11131e-11	1.000000
rad59	8.27909e-12	1.000000	8.27983e-12	1.000000
rad54	1.40689e-12	1.000000	1.40702e-12	1.000000
rad50	1.26312e-12	1.000000	1.26324e-12	1.000000
PAH10+CH3	8.93383e-13	1.000000	8.93464e-13	1.000000
rad43	2.00697e-13	1.000000	2.00715e-13	1.000000
rad62	7.41772e-14	1.000000	7.41839e-14	1.000000
rad6	6.95090e-14	1.000000	6.95153e-14	1.000000
PhcycC3H3_A+H	1.14777e-14	1.000000	1.14787e-14	1.000000
rad28	1.02895e-14	1.000000	1.02905e-14	1.000000
rad70	5.86613e-15	1.000000	5.86667e-15	1.000000
rad55	2.84964e-15	1.000000	2.84991e-15	1.000000
rad2	2.71315e-15	1.000000	2.71339e-15	1.000000
rad26	2.26987e-15	1.000000	2.27008e-15	1.000000
rad52	1.67153e-15	1.000000	1.67169e-15	1.000000
PAH1+H	4.00257e-16	1.000000	4.00293e-16	1.000000
rad1	2.04794e-16	1.000000	2.04813e-16	1.000000
rad51	1.44108e-16	1.000000	1.44120e-16	1.000000
rad10	1.36989e-16	1.000000	1.37002e-16	1.000000
rad3	3.09597e-17	1.000000	3.09625e-17	1.000000
rad34	2.48053e-17	1.000000	2.48074e-17	1.000000
rad4	1.64531e-17	1.000000	1.64546e-17	1.000000
rad58	9.60514e-18	1.000000	9.60604e-18	1.000000
rad7	5.27412e-18	1.000000	5.27461e-18	1.000000
rad65	1.88893e-18	1.000000	1.88910e-18	1.000000
rad11	1.32985e-18	1.000000	1.32997e-18	1.000000
rad14	6.22165e-19	1.000000	6.22221e-19	1.000000
rad42	5.29961e-19	1.000000	5.30009e-19	1.000000
rad25	3.67150e-19	1.000000	3.67183e-19	1.000000
rad41	1.61253e-19	1.000000	1.61268e-19	1.000000
rad27	5.34573e-20	1.000000	5.34621e-20	1.000000
rad13	3.03818e-20	1.000000	3.03846e-20	1.000000
rad31	9.77248e-22	1.000000	9.77338e-22	1.000000
rad33	1.24869e-22	1.000000	1.24880e-22	1.000000
rad23	2.41942e-24	1.000000	2.41963e-24	1.000000
rad20	4.05724e-25	1.000000	4.05761e-25	1.000000
rad21	3.62083e-25	1.000000	3.62117e-25	1.000000
rad45	8.44372e-26	1.000000	8.44449e-26	1.000000
rad36	5.49990e-27	1.000000	5.50040e-27	1.000000
rad18	4.36397e-28	1.000000	4.36436e-28	1.000000
rad22	2.27014e-29	1.000000	2.27034e-29	1.000000
rad24	2.02952e-30	1.000000	2.02970e-30	1.000000
rad47	1.55335e-31	1.000000	1.55349e-31	1.000000

0.100000000E-06 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.34395e-16 (1.00)	6.34337e-16 (1.00)
Formation of rad11	4.51153e-16 (0.711)	4.51110e-16 (0.711)
Formation of rad6	1.51589e-16 (0.239)	1.51574e-16 (0.239)
H-abstraction	3.16530e-17 (0.0499)	3.16530e-17 (0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891220	0.891220	0.891301	0.891301
Benzene+2-propynyl	0.0498949	0.941114	0.0498994	0.941200
C2H2+PhCH2	0.0319123	0.973027	0.0319152	0.973115
PhCCH+CH3	0.0149061	0.987933	0.0149076	0.988023
PhCHCCH2+H	0.00657747	0.994510	0.00657807	0.994601
PhCCCH3+H	0.00446903	0.998979	0.00446943	0.999070
Ph+MeAc	0.000840207	0.999820	0.000840284	0.999911
Phenyl+Allene	9.13505e-05	0.999911	0.000000	0.999911
PAH7+H	6.60542e-05	0.999977	6.60602e-05	0.999977

rad39	1.31473e-05	0.999990	1.31484e-05	0.999990
PhCH2CCH+H	5.22128e-06	0.999995	5.22175e-06	0.999995
rad30	2.21236e-06	0.999998	2.21256e-06	0.999997
PAH9+H	8.00107e-07	0.999998	8.00180e-07	0.999998
rad19anti	7.04525e-07	0.999999	7.04589e-07	0.999999
rad35	2.87143e-07	0.999999	2.87169e-07	0.999999
rad37	2.27555e-07	1.000000	2.27576e-07	0.999999
rad38	2.12987e-07	1.000000	2.13006e-07	1.000000
rad46	5.68758e-09	1.000000	5.68810e-09	1.000000
rad60syn	1.08211e-09	1.000000	1.08221e-09	1.000000
rad60anti	4.39254e-10	1.000000	4.39293e-10	1.000000
rad19syn	6.92341e-11	1.000000	6.92404e-11	1.000000
PAH3+H	6.10400e-11	1.000000	6.10456e-11	1.000000
rad59	1.31853e-11	1.000000	1.31864e-11	1.000000
rad6	4.75567e-12	1.000000	4.75611e-12	1.000000
rad54	3.21887e-12	1.000000	3.21917e-12	1.000000
rad50	2.22681e-12	1.000000	2.22701e-12	1.000000
PAH10+CH3	2.02585e-12	1.000000	2.02603e-12	1.000000
rad67	7.75554e-13	1.000000	7.75624e-13	1.000000
rad43	4.01324e-13	1.000000	4.01360e-13	1.000000
rad28	1.72141e-13	1.000000	1.72157e-13	1.000000
rad62	1.66581e-13	1.000000	1.66596e-13	1.000000
rad2	9.34664e-14	1.000000	9.34749e-14	1.000000
rad26	6.08567e-14	1.000000	6.08622e-14	1.000000
PhcycC3H3_A+H	4.89128e-14	1.000000	4.89173e-14	1.000000
rad70	1.94638e-14	1.000000	1.94656e-14	1.000000
rad55	8.48747e-15	1.000000	8.48824e-15	1.000000
rad1	7.04258e-15	1.000000	7.04322e-15	1.000000
rad10	5.53293e-15	1.000000	5.53343e-15	1.000000
rad52	3.84231e-15	1.000000	3.84266e-15	1.000000
PAH1+H	2.34440e-15	1.000000	2.34461e-15	1.000000
rad3	1.51152e-15	1.000000	1.51166e-15	1.000000
rad4	7.51681e-16	1.000000	7.51750e-16	1.000000
rad7	4.24738e-16	1.000000	4.24777e-16	1.000000
rad51	4.07404e-16	1.000000	4.07441e-16	1.000000
rad34	1.57781e-16	1.000000	1.57796e-16	1.000000
rad11	1.17166e-16	1.000000	1.17177e-16	1.000000
rad58	2.99505e-17	1.000000	2.99533e-17	1.000000
rad25	6.59400e-18	1.000000	6.59459e-18	1.000000
rad65	6.35783e-18	1.000000	6.35842e-18	1.000000
rad14	5.72766e-18	1.000000	5.72818e-18	1.000000
rad42	4.93395e-18	1.000000	4.93440e-18	1.000000
rad13	2.49538e-18	1.000000	2.49562e-18	1.000000
rad41	1.53085e-18	1.000000	1.53098e-18	1.000000
rad27	1.48017e-18	1.000000	1.48030e-18	1.000000
rad23	2.49703e-19	1.000000	2.49725e-19	1.000000
rad53	1.09682e-19	1.000000	1.09692e-19	1.000000
rad33	4.44844e-20	1.000000	4.44885e-20	1.000000
rad31	2.87620e-20	1.000000	2.87646e-20	1.000000
rad64	2.63852e-20	1.000000	2.63876e-20	1.000000
rad45	2.05484e-20	1.000000	2.05503e-20	1.000000
rad21	1.10173e-21	1.000000	1.10183e-21	1.000000
rad20	8.40618e-22	1.000000	8.40695e-22	1.000000
rad36	7.00307e-22	1.000000	7.00371e-22	1.000000
rad56	3.10995e-22	1.000000	3.11023e-22	1.000000
rad61	3.56436e-23	1.000000	3.56468e-23	1.000000
rad68syn	3.28824e-23	1.000000	3.28854e-23	1.000000
rad68anti	2.37014e-23	1.000000	2.37036e-23	1.000000
rad18	8.04022e-24	1.000000	8.04095e-24	1.000000
rad9	7.89803e-24	1.000000	7.89876e-24	1.000000
rad22	5.34593e-24	1.000000	5.34642e-24	1.000000
rad5	2.65652e-25	1.000000	2.65677e-25	1.000000
rad40syn	5.33122e-26	1.000000	5.33171e-26	1.000000
rad24	4.89228e-26	1.000000	4.89273e-26	1.000000
rad40anti	1.32361e-26	1.000000	1.32374e-26	1.000000
PAH8+H	1.18606e-26	1.000000	1.18617e-26	1.000000
rad73	1.00619e-26	1.000000	1.00629e-26	1.000000
rad15	4.61049e-27	1.000000	4.61091e-27	1.000000
rad71	9.35036e-29	1.000000	9.35121e-29	1.000000
rad12	1.72163e-29	1.000000	1.72178e-29	1.000000
rad47	2.86302e-31	1.000000	2.86328e-31	1.000000
rad72	1.61637e-40	1.000000	1.61652e-40	1.000000
rad8	1.55103e-42	1.000000	1.55117e-42	1.000000

0.100000000E-06 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.11288e-15 (1.00)	5.10968e-15 (1.00)
Formation of rad11	3.08094e-15 (0.603)	3.07881e-15 (0.603)

Formation of rad6	1.54092e-15 (0.301)	1.53985e-15 (0.301)
H-abstraction	4.91025e-16 (0.0960)	4.91025e-16 (0.0961)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.804485	0.804485	0.804989	0.804989
Benzene+2-propynyl	0.0960368	0.900522	0.0960969	0.901086
C2H2+PhCH2	0.0525421	0.953064	0.0525751	0.953661
PhCCH+CH3	0.0262535	0.979317	0.0262700	0.979931
PhCHCCH2+H	0.0106706	0.989988	0.0106772	0.990608
PhCCCH3+H	0.00676080	0.996749	0.00676504	0.997373
Ph+MeAc	0.00228512	0.999034	0.00228655	0.999660
Phenyl+Allene	0.000625754	0.999659	0.000000	0.999660
PAH7+H	0.000215668	0.999875	0.000215804	0.999875
PhCH2CCH+H	6.37921e-05	0.999939	6.38320e-05	0.999939
rad39	4.88390e-05	0.999988	4.88695e-05	0.999988
rad30	4.71374e-06	0.999992	4.71670e-06	0.999993
rad19anti	2.55284e-06	0.999995	2.55443e-06	0.999995
PAH9+H	2.27172e-06	0.999997	2.27314e-06	0.999998
rad37	9.72231e-07	0.999998	9.72835e-07	0.999999
rad35	7.27597e-07	0.999999	7.28053e-07	0.999999
rad38	6.64248e-07	1.000000	6.64664e-07	1.000000
rad46	2.95927e-08	1.000000	2.96112e-08	1.000000
rad60syn	6.77132e-09	1.000000	6.77556e-09	1.000000
rad19syn	4.62790e-09	1.000000	4.63079e-09	1.000000
rad60anti	3.07480e-09	1.000000	3.07673e-09	1.000000
PAH3+H	1.45800e-09	1.000000	1.45891e-09	1.000000
rad54	4.18669e-10	1.000000	4.18931e-10	1.000000
rad59	2.84711e-10	1.000000	2.84889e-10	1.000000
PAH10+CH3	1.98074e-10	1.000000	1.98198e-10	1.000000
rad50	7.81204e-11	1.000000	7.81693e-11	1.000000
rad43	3.26732e-11	1.000000	3.26936e-11	1.000000
rad67	2.48951e-11	1.000000	2.49108e-11	1.000000
PhcycC3H3_A+H	2.37988e-11	1.000000	2.38137e-11	1.000000
rad62	2.26679e-11	1.000000	2.26821e-11	1.000000
rad70	7.63979e-12	1.000000	7.64458e-12	1.000000
rad55	3.50822e-12	1.000000	3.51042e-12	1.000000
PAH1+H	2.19400e-12	1.000000	2.19537e-12	1.000000
rad6	1.05897e-12	1.000000	1.05963e-12	1.000000
rad2	4.74705e-13	1.000000	4.75003e-13	1.000000
rad52	4.56316e-13	1.000000	4.56602e-13	1.000000
rad34	1.75088e-13	1.000000	1.75198e-13	1.000000
rad51	1.36997e-13	1.000000	1.37083e-13	1.000000
rad1	4.41864e-14	1.000000	4.42141e-14	1.000000
rad28	3.27172e-14	1.000000	3.27377e-14	1.000000
rad10	2.68469e-14	1.000000	2.68637e-14	1.000000
rad58	1.74184e-14	1.000000	1.74293e-14	1.000000
rad26	1.19181e-14	1.000000	1.19256e-14	1.000000
rad3	9.84787e-15	1.000000	9.85399e-15	1.000000
rad42	7.28195e-15	1.000000	7.28651e-15	1.000000
rad4	5.18689e-15	1.000000	5.19014e-15	1.000000
rad65	3.20497e-15	1.000000	3.20698e-15	1.000000
rad41	2.20567e-15	1.000000	2.20705e-15	1.000000
rad53	9.04225e-16	1.000000	9.04789e-16	1.000000
rad23	5.52877e-16	1.000000	5.53222e-16	1.000000
rad64	3.15111e-16	1.000000	3.15309e-16	1.000000
rad7	1.00480e-16	1.000000	1.00543e-16	1.000000
rad45	9.89352e-17	1.000000	9.89973e-17	1.000000
rad11	3.35717e-17	1.000000	3.35927e-17	1.000000
rad56	1.60193e-17	1.000000	1.60293e-17	1.000000
rad36	3.81656e-18	1.000000	3.81895e-18	1.000000
rad25	2.27195e-18	1.000000	2.27337e-18	1.000000
rad68syn	1.85188e-18	1.000000	1.85304e-18	1.000000
rad14	1.81674e-18	1.000000	1.81788e-18	1.000000
rad68anti	1.33289e-18	1.000000	1.33373e-18	1.000000
rad61	9.28153e-19	1.000000	9.28733e-19	1.000000
rad13	6.81910e-19	1.000000	6.82337e-19	1.000000
rad27	5.95872e-19	1.000000	5.96244e-19	1.000000
rad31	4.49566e-19	1.000000	4.49847e-19	1.000000
rad33	4.97415e-20	1.000000	4.97726e-20	1.000000
rad40syn	1.44546e-20	1.000000	1.44636e-20	1.000000
PAH8+H	8.90780e-21	1.000000	8.91337e-21	1.000000
rad40anti	3.67526e-21	1.000000	3.67756e-21	1.000000
rad21	2.89653e-21	1.000000	2.89835e-21	1.000000
rad73	2.38292e-21	1.000000	2.38442e-21	1.000000
rad20	1.85189e-21	1.000000	1.85305e-21	1.000000
rad9	1.57636e-22	1.000000	1.57735e-22	1.000000
rad22	1.15480e-22	1.000000	1.15552e-22	1.000000
rad71	9.34300e-23	1.000000	9.34889e-23	1.000000
rad18	8.23486e-24	1.000000	8.24002e-24	1.000000

rad24	1.02138e-24	1.000000	1.02202e-24	1.00000
rad5	3.74034e-25	1.000000	3.74267e-25	1.00000
rad15	9.57659e-26	1.000000	9.58264e-26	1.00000
rad12	1.76943e-27	1.000000	1.77054e-27	1.00000
rad72	9.03714e-29	1.000000	9.04283e-29	1.00000
rad47	7.50666e-29	1.000000	7.51136e-29	1.00000
rad8	4.40937e-40	1.000000	4.41213e-40	1.00000

0.100000000E-06 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.11551e-14 (1.00)	2.10968e-14 (1.00)
Formation of rad11	1.10850e-14 (0.524)	1.10494e-14 (0.524)
Formation of rad6	7.08033e-15 (0.335)	7.05760e-15 (0.335)
H-abstraction	2.98976e-15 (0.141)	2.98976e-15 (0.142)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.706762	0.706762	0.708716	0.708716
Benzene+2-propynyl	0.141326	0.848088	0.141717	0.850433
C2H2+PhCH2	0.0811037	0.929191	0.0813279	0.931761
PhCCH+CH3	0.0389496	0.968141	0.0390573	0.970818
PhCHCCH2+H	0.0153921	0.983533	0.0154346	0.986253
PhCCCH3+H	0.00823928	0.991772	0.00826206	0.994515
Ph+MeAc	0.00432839	0.996101	0.00434036	0.998855
Phenyl+Allene	0.00275756	0.998858	0.00000	0.998855
PAH7+H	0.000574793	0.999433	0.000576383	0.999432
PhCH2CCH+H	0.000399546	0.999833	0.000400651	0.999832
rad39	0.000137925	0.999971	0.000138306	0.999971
rad30	9.14625e-06	0.999980	9.17153e-06	0.999980
rad19anti	7.87872e-06	0.999988	7.90052e-06	0.999988
PAH9+H	6.12734e-06	0.999994	6.14428e-06	0.999994
rad37	2.41829e-06	0.999996	2.42498e-06	0.999996
rad38	1.93439e-06	0.999998	1.93974e-06	0.999998
rad35	1.76562e-06	1.000000	1.77051e-06	1.000000
rad46	1.27870e-07	1.000000	1.28224e-07	1.00000
rad19syn	7.63986e-08	1.000000	7.66098e-08	1.00000
rad60syn	2.91346e-08	1.00000	2.92151e-08	1.00000
PAH3+H	1.45909e-08	1.00000	1.46312e-08	1.00000
rad60anti	1.41795e-08	1.00000	1.42187e-08	1.00000
rad54	1.02843e-08	1.00000	1.03128e-08	1.00000
PAH10+CH3	3.35592e-09	1.00000	3.36520e-09	1.00000
rad59	2.61933e-09	1.00000	2.62658e-09	1.00000
PhcycC3H3_A+H	1.25838e-09	1.00000	1.26187e-09	1.00000
rad50	1.15864e-09	1.00000	1.16185e-09	1.00000
rad62	4.84009e-10	1.00000	4.85347e-10	1.00000
rad43	4.60419e-10	1.00000	4.61691e-10	1.00000
rad67	3.97898e-10	1.00000	3.98999e-10	1.00000
rad70	3.42517e-10	1.00000	3.43464e-10	1.00000
PAH1+H	1.64298e-10	1.00000	1.64753e-10	1.00000
rad55	1.59822e-10	1.00000	1.60264e-10	1.00000
rad34	1.41616e-11	1.00000	1.42007e-11	1.00000
rad52	1.34820e-11	1.00000	1.35193e-11	1.00000
rad51	7.24796e-12	1.00000	7.26800e-12	1.00000
rad2	1.74505e-12	1.00000	1.74987e-12	1.00000
rad58	1.01105e-12	1.00000	1.01385e-12	1.00000
rad42	6.16327e-13	1.00000	6.18031e-13	1.00000
rad6	5.24448e-13	1.00000	5.25899e-13	1.00000
rad53	2.35883e-13	1.00000	2.36535e-13	1.00000
rad1	2.09881e-13	1.00000	2.10461e-13	1.00000
rad65	2.01730e-13	1.00000	2.02287e-13	1.00000
rad41	1.64828e-13	1.00000	1.65283e-13	1.00000
rad64	9.67571e-14	1.00000	9.70247e-14	1.00000
rad10	7.88057e-14	1.00000	7.90235e-14	1.00000
rad23	5.92532e-14	1.00000	5.94171e-14	1.00000
rad3	4.93309e-14	1.00000	4.94673e-14	1.00000
rad4	2.80221e-14	1.00000	2.80996e-14	1.00000
rad45	1.66703e-14	1.00000	1.67164e-14	1.00000
rad56	1.22099e-14	1.00000	1.22437e-14	1.00000
rad28	6.58022e-15	1.00000	6.59841e-15	1.00000
rad26	2.45668e-15	1.00000	2.46348e-15	1.00000
rad68syn	1.45353e-15	1.00000	1.45755e-15	1.00000
rad68anti	1.02673e-15	1.00000	1.02957e-15	1.00000
rad36	9.08898e-16	1.00000	9.11411e-16	1.00000
rad61	4.14122e-16	1.00000	4.15268e-16	1.00000
rad7	5.37903e-17	1.00000	5.39391e-17	1.00000
PAH8+H	3.33496e-17	1.00000	3.34419e-17	1.00000
rad40syn	2.92057e-17	1.00000	2.92865e-17	1.00000
rad11	2.07460e-17	1.00000	2.08034e-17	1.00000

rad40anti	8.32431e-18	1.00000	8.34733e-18	1.00000
rad73	5.16042e-18	1.00000	5.17469e-18	1.00000
rad31	2.28423e-18	1.00000	2.29055e-18	1.00000
rad25	1.03866e-18	1.00000	1.04153e-18	1.00000
rad14	7.33358e-19	1.00000	7.35386e-19	1.00000
rad13	5.24170e-19	1.00000	5.25619e-19	1.00000
rad71	4.74174e-19	1.00000	4.75486e-19	1.00000
rad27	3.28168e-19	1.00000	3.29075e-19	1.00000
rad33	1.14564e-19	1.00000	1.14881e-19	1.00000
rad21	1.71870e-20	1.00000	1.72345e-20	1.00000
rad9	9.90051e-21	1.00000	9.92785e-21	1.00000
rad20	8.81257e-21	1.00000	8.83689e-21	1.00000
rad22	4.05347e-21	1.00000	4.06468e-21	1.00000
rad24	6.92004e-23	1.00000	6.93918e-23	1.00000
rad72	2.10572e-23	1.00000	2.11154e-23	1.00000
rad18	1.33618e-23	1.00000	1.33987e-23	1.00000
rad15	6.36862e-24	1.00000	6.38622e-24	1.00000
rad12	6.95693e-25	1.00000	6.97617e-25	1.00000
rad5	3.39708e-25	1.00000	3.40647e-25	1.00000
rad47	4.86077e-27	1.00000	4.87421e-27	1.00000
rad8	8.30251e-37	1.00000	8.32547e-37	1.00000

0.100000000E-06 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.08120e-14 (1.00)	6.02869e-14 (1.00)
Formation of rad11	2.83304e-14 (0.466)	2.80313e-14 (0.465)
Formation of rad6	2.13840e-14 (0.352)	2.11582e-14 (0.351)
H-abstraction	1.10975e-14 (0.182)	1.10975e-14 (0.184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.606934	0.606934	0.612219	0.612219
Benzene+2-propynyl	0.182488	0.789422	0.184077	0.796297
C2H2+PhCH2	0.112836	0.902258	0.113819	0.910116
PhCCH+CH3	0.0502927	0.952551	0.0507307	0.960846
PhCHCCH2+H	0.0208956	0.973447	0.0210776	0.981924
Phenyl+Allene	0.00863333	0.982080	0.000000	0.981924
PhCCCH3+H	0.00840933	0.990489	0.00848258	0.990406
Ph+MeAc	0.00630896	0.996798	0.00636390	0.996770
PhCH2CCH+H	0.00158536	0.998384	0.00159917	0.998369
PAH7+H	0.00124706	0.999631	0.00125792	0.999627
rad39	0.000304554	0.999935	0.000307206	0.999935
rad19anti	2.07283e-05	0.999956	2.09088e-05	0.999955
rad30	1.54421e-05	0.999971	1.55766e-05	0.999971
PAH9+H	1.45719e-05	0.999986	1.46988e-05	0.999986
rad38	4.88300e-06	0.999991	4.92552e-06	0.999991
rad37	4.23980e-06	0.999995	4.27673e-06	0.999995
rad35	3.83137e-06	0.999999	3.86474e-06	0.999999
rad19syn	5.75843e-07	1.000000	5.80858e-07	0.999999
rad46	4.35560e-07	1.000000	4.39353e-07	1.000000
rad54	1.01017e-07	1.000000	1.01897e-07	1.000000
rad60syn	8.96254e-08	1.000000	9.04058e-08	1.000000
PAH3+H	8.11822e-08	1.000000	8.18892e-08	1.000000
rad60anti	4.57655e-08	1.000000	4.61641e-08	1.000000
PAH10+CH3	2.25831e-08	1.000000	2.27797e-08	1.000000
PhcycC3H3_A+H	2.05528e-08	1.000000	2.07318e-08	1.000000
rad59	1.35486e-08	1.000000	1.36666e-08	1.000000
rad50	9.40269e-09	1.000000	9.48453e-09	1.000000
rad70	4.88193e-09	1.000000	4.92445e-09	1.000000
rad62	3.91161e-09	1.000000	3.94568e-09	1.000000
rad67	3.65819e-09	1.000000	3.69004e-09	1.000000
PAH1+H	3.25971e-09	1.000000	3.28810e-09	1.000000
rad43	2.57504e-09	1.000000	2.59746e-09	1.000000
rad55	2.29328e-09	1.000000	2.31325e-09	1.000000
rad34	2.96007e-10	1.000000	2.98585e-10	1.000000
rad52	1.70972e-10	1.000000	1.72461e-10	1.000000
rad51	1.34047e-10	1.000000	1.35214e-10	1.000000
rad58	1.71337e-11	1.000000	1.72829e-11	1.000000
rad42	1.22225e-11	1.000000	1.23290e-11	1.000000
rad53	1.06169e-11	1.000000	1.07093e-11	1.000000
rad64	4.60104e-12	1.000000	4.64111e-12	1.000000
rad65	4.04334e-12	1.000000	4.07855e-12	1.000000
rad2	2.85587e-12	1.000000	2.88075e-12	1.000000
rad41	2.76375e-12	1.000000	2.78781e-12	1.000000
rad56	1.10531e-12	1.000000	1.11493e-12	1.000000
rad1	4.56653e-13	1.000000	4.60630e-13	1.000000
rad23	3.58481e-13	1.000000	3.61603e-13	1.000000
rad6	3.38107e-13	1.000000	3.41052e-13	1.000000

rad68syn	1.32095e-13	1.00000	1.33246e-13	1.00000
rad45	1.03992e-13	1.00000	1.04898e-13	1.00000
rad68anti	9.18033e-14	1.00000	9.26031e-14	1.00000
rad10	8.42241e-14	1.00000	8.49579e-14	1.00000
rad3	8.01073e-14	1.00000	8.08050e-14	1.00000
rad4	5.14610e-14	1.00000	5.19092e-14	1.00000
rad61	2.45771e-14	1.00000	2.47911e-14	1.00000
rad36	9.86140e-15	1.00000	9.94724e-15	1.00000
PAH8+H	8.64322e-15	1.00000	8.71854e-15	1.00000
rad40syn	4.97710e-15	1.00000	5.02044e-15	1.00000
rad40anti	1.59901e-15	1.00000	1.61294e-15	1.00000
rad28	1.48960e-15	1.00000	1.50258e-15	1.00000
rad73	1.02756e-15	1.00000	1.03651e-15	1.00000
rad26	5.71565e-16	1.00000	5.76542e-16	1.00000
rad71	1.69641e-16	1.00000	1.71119e-16	1.00000
rad7	3.87845e-17	1.00000	3.91222e-17	1.00000
rad11	1.90300e-17	1.00000	1.91958e-17	1.00000
rad31	3.07518e-18	1.00000	3.10197e-18	1.00000
rad9	1.04702e-18	1.00000	1.05614e-18	1.00000
rad13	1.00802e-18	1.00000	1.01679e-18	1.00000
rad25	7.31644e-19	1.00000	7.38016e-19	1.00000
rad33	5.24243e-19	1.00000	5.28809e-19	1.00000
rad14	4.27537e-19	1.00000	4.31259e-19	1.00000
rad27	2.77029e-19	1.00000	2.79442e-19	1.00000
rad21	2.17608e-19	1.00000	2.19503e-19	1.00000
rad72	1.30033e-19	1.00000	1.31166e-19	1.00000
rad20	9.04765e-20	1.00000	9.12642e-20	1.00000
rad22	1.85978e-20	1.00000	1.87599e-20	1.00000
rad24	7.30645e-21	1.00000	7.37007e-21	1.00000
rad15	6.37840e-22	1.00000	6.43394e-22	1.00000
rad12	3.30942e-22	1.00000	3.33824e-22	1.00000
rad18	3.85732e-23	1.00000	3.89091e-23	1.00000
rad5	2.82520e-25	1.00000	2.84980e-25	1.00000
rad47	1.06838e-25	1.00000	1.07769e-25	1.00000
rad8	7.32789e-33	1.00000	7.39170e-33	1.00000

0.100000000E-06 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.39564e-13 (1.00)	1.36669e-13 (1.00)
Formation of rad11	5.88273e-14 (0.422)	5.72650e-14 (0.419)
Formation of rad6	5.01684e-14 (0.359)	4.88360e-14 (0.357)
H-abstraction	3.05678e-14 (0.219)	3.05678e-14 (0.224)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.510454	0.510454	0.521265	0.521265
Benzene+2-propynyl	0.219024	0.729478	0.223663	0.744928
C2H2+PhCH2	0.140690	0.870167	0.143670	0.888598
PhCCH+CH3	0.0586093	0.928777	0.0598506	0.948449
PhCHCCH2+H	0.0277623	0.956539	0.0283503	0.976799
Phenyl+Allene	0.0207415	0.977280	0.000000	0.976799
Ph+MeAc	0.00771340	0.984994	0.00787679	0.984676
PhCCH3+H	0.00756061	0.992554	0.00772075	0.992396
PhCH2CCH+H	0.00451180	0.997066	0.00460736	0.997004
PAH7+H	0.00225727	0.999324	0.00230508	0.999309
rad39	0.000548289	0.999872	0.000559902	0.999869
rad19anti	4.66037e-05	0.999918	4.75908e-05	0.999916
PAH9+H	2.99985e-05	0.999948	3.06339e-05	0.999947
rad30	2.26762e-05	0.999971	2.31565e-05	0.999970
rad38	1.05314e-05	0.999982	1.07544e-05	0.999981
rad35	7.29844e-06	0.999989	7.45303e-06	0.999988
rad37	5.93522e-06	0.999995	6.06093e-06	0.999994
rad19syn	2.61380e-06	0.999998	2.66916e-06	0.999997
rad46	1.18432e-06	0.999999	1.20940e-06	0.999998
rad54	5.53865e-07	0.999999	5.65596e-07	0.999999
PAH3+H	2.96686e-07	1.000000	3.02969e-07	0.999999
rad60syn	2.09904e-07	1.000000	2.14349e-07	0.999999
PhcycC3H3_A+H	1.62838e-07	1.000000	1.66287e-07	1.000000
rad60anti	1.11059e-07	1.000000	1.13411e-07	1.000000
PAH10+CH3	8.88407e-08	1.000000	9.07227e-08	1.000000
rad50	4.89398e-08	1.000000	4.99764e-08	1.000000
rad59	4.64276e-08	1.000000	4.74110e-08	1.000000
rad70	3.43279e-08	1.000000	3.50550e-08	1.000000
PAH1+H	2.87927e-08	1.000000	2.94026e-08	1.000000
rad67	2.16413e-08	1.000000	2.20997e-08	1.000000
rad62	1.75396e-08	1.000000	1.79112e-08	1.000000
rad55	1.62462e-08	1.000000	1.65903e-08	1.000000
rad43	8.26632e-09	1.000000	8.44142e-09	1.000000

rad34	2.73084e-09	1.00000	2.78868e-09	1.000000
rad51	1.25003e-09	1.00000	1.27651e-09	1.000000
rad52	1.21856e-09	1.00000	1.24437e-09	1.000000
rad53	1.69563e-10	1.00000	1.73154e-10	1.000000
rad58	1.35852e-10	1.00000	1.38730e-10	1.000000
rad42	1.03499e-10	1.00000	1.05691e-10	1.000000
rad64	7.31424e-11	1.00000	7.46916e-11	1.000000
rad65	3.91348e-11	1.00000	3.99636e-11	1.000000
rad56	2.88481e-11	1.00000	2.94592e-11	1.000000
rad41	1.94813e-11	1.00000	1.98939e-11	1.000000
rad68syn	3.41597e-12	1.00000	3.48832e-12	1.000000
rad68anti	2.34479e-12	1.00000	2.39446e-12	1.000000
rad2	1.65256e-12	1.00000	1.68756e-12	1.000000
PAH8+H	4.75492e-13	1.00000	4.85564e-13	1.000000
rad61	4.69348e-13	1.00000	4.79288e-13	1.000000
rad23	4.28883e-13	1.00000	4.37967e-13	1.000000
rad1	3.26775e-13	1.00000	3.33696e-13	1.000000
rad40syn	2.01813e-13	1.00000	2.06088e-13	1.000000
rad45	1.37822e-13	1.00000	1.40741e-13	1.000000
rad6	1.27031e-13	1.00000	1.29722e-13	1.000000
rad40anti	7.19652e-14	1.00000	7.34895e-14	1.000000
rad73	4.99710e-14	1.00000	5.10295e-14	1.000000
rad3	4.38601e-14	1.00000	4.47891e-14	1.000000
rad10	3.88926e-14	1.00000	3.97164e-14	1.000000
rad4	3.06072e-14	1.00000	3.12555e-14	1.000000
rad36	1.42049e-14	1.00000	1.45058e-14	1.000000
rad71	1.22500e-14	1.00000	1.25094e-14	1.000000
rad28	4.02308e-16	1.00000	4.10830e-16	1.000000
rad26	1.58339e-16	1.00000	1.61692e-16	1.000000
rad9	8.04413e-17	1.00000	8.21457e-17	1.000000
rad11	2.29306e-17	1.00000	2.34163e-17	1.000000
rad7	1.85159e-17	1.00000	1.89081e-17	1.000000
rad72	7.28744e-18	1.00000	7.44179e-18	1.000000
rad13	5.52415e-18	1.00000	5.64115e-18	1.000000
rad21	3.99858e-18	1.00000	4.08327e-18	1.000000
rad33	3.80980e-18	1.00000	3.89050e-18	1.000000
rad31	1.78365e-18	1.00000	1.82143e-18	1.000000
rad20	1.48744e-18	1.00000	1.51895e-18	1.000000
rad25	8.89375e-19	1.00000	9.08213e-19	1.000000
rad24	3.96761e-19	1.00000	4.05165e-19	1.000000
rad14	3.92236e-19	1.00000	4.00544e-19	1.000000
rad27	3.69548e-19	1.00000	3.77375e-19	1.000000
rad12	4.79209e-20	1.00000	4.89359e-20	1.000000
rad15	3.23882e-20	1.00000	3.30742e-20	1.000000
rad22	2.22769e-20	1.00000	2.27488e-20	1.000000
rad18	2.14034e-22	1.00000	2.18567e-22	1.000000
rad47	9.03917e-25	1.00000	9.23064e-25	1.000000
rad5	2.61894e-25	1.00000	2.67441e-25	1.000000
rad8	9.25480e-29	1.00000	9.45081e-29	1.000000

0.100000000E-06 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.75392e-13 (1.00)	2.64229e-13 (1.00)
Formation of rad11	1.06471e-13 (0.387)	1.00706e-13 (0.381)
Formation of rad6	9.97133e-14 (0.362)	9.43145e-14 (0.357)
H-abstraction	6.92082e-14 (0.251)	6.92082e-14 (0.262)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.420963	0.420963	0.438748	0.438748
Benzene+2-propynyl	0.251308	0.672270	0.261925	0.700673
C2H2+PhCH2	0.158756	0.831027	0.165464	0.866137
PhCCH+CH3	0.0631452	0.894172	0.0658130	0.931950
Phenyl+Allene	0.0405363	0.934708	0.000000	0.931950
PhCHCCH2+H	0.0360793	0.970788	0.0376036	0.969553
PhCH2CCH+H	0.00999819	0.980786	0.0104207	0.979974
Ph+MeAc	0.00840385	0.989190	0.00875888	0.988733
PhCCCH3+H	0.00623443	0.995424	0.00649783	0.995231
PAH7+H	0.00351019	0.998934	0.00365850	0.998889
rad39	0.000836596	0.999771	0.000871939	0.999761
rad19anti	9.01935e-05	0.999861	9.40042e-05	0.999855
PAH9+H	5.38600e-05	0.999915	5.61355e-05	0.999911
rad30	2.94556e-05	0.999944	3.07000e-05	0.999942
rad38	1.96291e-05	0.999964	2.04585e-05	0.999962
rad35	1.22732e-05	0.999976	1.27916e-05	0.999975
rad19syn	8.33347e-06	0.999985	8.68552e-06	0.999984
rad37	7.26188e-06	0.999992	7.56866e-06	0.999992
rad46	2.65265e-06	0.999995	2.76472e-06	0.999994

rad54	2.03471e-06	0.999997	2.12067e-06	0.999996
PAH3+H	7.96489e-07	0.999997	8.30142e-07	0.999997
PhcycC3H3_A+H	7.94325e-07	0.999998	8.27884e-07	0.999998
rad60syn	3.96788e-07	0.999999	4.13552e-07	0.999998
PAH10+CH3	2.53197e-07	0.999999	2.63894e-07	0.999999
rad60anti	2.15811e-07	0.999999	2.24928e-07	0.999999
rad50	1.82305e-07	0.999999	1.90008e-07	0.999999
rad70	1.50040e-07	0.999999	1.56379e-07	0.999999
PAH1+H	1.48682e-07	0.999999	1.54963e-07	0.999999
rad59	1.17661e-07	1.000000	1.22632e-07	1.000000
rad67	9.03380e-08	1.000000	9.41547e-08	1.000000
rad55	7.18814e-08	1.000000	7.49183e-08	1.000000
rad62	5.32905e-08	1.000000	5.55419e-08	1.000000
rad43	1.85215e-08	1.000000	1.93041e-08	1.000000
rad34	1.46559e-08	1.000000	1.52750e-08	1.000000
rad51	7.22366e-09	1.000000	7.52888e-09	1.000000
rad52	5.73950e-09	1.000000	5.98199e-09	1.000000
rad53	1.38657e-09	1.000000	1.44515e-09	1.000000
rad58	6.48417e-10	1.000000	6.75812e-10	1.000000
rad64	5.75074e-10	1.000000	5.99371e-10	1.000000
rad42	5.07610e-10	1.000000	5.29056e-10	1.000000
rad56	3.39878e-10	1.000000	3.54238e-10	1.000000
rad65	2.29598e-10	1.000000	2.39299e-10	1.000000
rad41	7.94160e-11	1.000000	8.27714e-11	1.000000
rad68syn	3.95119e-11	1.000000	4.11813e-11	1.000000
rad68anti	2.68637e-11	1.000000	2.79986e-11	1.000000
PAH8+H	9.75569e-12	1.000000	1.01678e-11	1.000000
rad61	4.46180e-12	1.000000	4.65031e-12	1.000000
rad40syn	3.27953e-12	1.000000	3.41809e-12	1.000000
rad40anti	1.27570e-12	1.000000	1.32959e-12	1.000000
rad73	9.82194e-13	1.000000	1.02370e-12	1.000000
rad2	5.41569e-13	1.000000	5.64450e-13	1.000000
rad71	3.27733e-13	1.000000	3.41579e-13	1.000000
rad23	2.43387e-13	1.000000	2.53670e-13	1.000000
rad1	1.06618e-13	1.000000	1.11122e-13	1.000000
rad45	9.97954e-14	1.000000	1.04012e-13	1.000000
rad6	3.47208e-14	1.000000	3.61877e-14	1.000000
rad3	1.43554e-14	1.000000	1.49620e-14	1.000000
rad10	1.10829e-14	1.000000	1.15512e-14	1.000000
rad4	1.02150e-14	1.000000	1.06466e-14	1.000000
rad36	9.55556e-15	1.000000	9.95929e-15	1.000000
rad9	1.97232e-15	1.000000	2.05565e-15	1.000000
rad72	3.14415e-16	1.000000	3.27699e-16	1.000000
rad28	1.42138e-16	1.000000	1.48144e-16	1.000000
rad11	6.48356e-17	1.000000	6.75747e-17	1.000000
rad21	5.89264e-17	1.000000	6.14159e-17	1.000000
rad26	5.68968e-17	1.000000	5.93006e-17	1.000000
rad13	5.66453e-17	1.000000	5.90385e-17	1.000000
rad33	2.86167e-17	1.000000	2.98257e-17	1.000000
rad20	2.26268e-17	1.000000	2.35827e-17	1.000000
rad7	1.29558e-17	1.000000	1.35032e-17	1.000000
rad24	5.58298e-18	1.000000	5.81886e-18	1.000000
rad25	1.92043e-18	1.000000	2.00157e-18	1.000000
rad12	1.15817e-18	1.000000	1.20711e-18	1.000000
rad31	8.40534e-19	1.000000	8.76043e-19	1.000000
rad27	7.06002e-19	1.000000	7.35830e-19	1.000000
rad14	5.74862e-19	1.000000	5.99150e-19	1.000000
rad15	4.57128e-19	1.000000	4.76442e-19	1.000000
rad22	1.38963e-20	1.000000	1.44834e-20	1.000000
rad18	2.25410e-21	1.000000	2.34933e-21	1.000000
rad47	5.02496e-24	1.000000	5.23726e-24	1.000000
rad8	3.33307e-25	1.000000	3.47390e-25	1.000000
rad5	3.20118e-25	1.000000	3.33643e-25	1.000000

0.100000000E-06 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.88072e-13 (1.00)	4.55158e-13 (1.00)
Formation of rad11	1.74945e-13 (0.358)	1.58562e-13 (0.348)
Formation of rad6	1.76509e-13 (0.362)	1.59978e-13 (0.351)
H-abstraction	1.36618e-13 (0.280)	1.36618e-13 (0.300)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.341014	0.341014	0.365674	0.365674
Benzene+2-propynyl	0.279914	0.620928	0.300155	0.665829
C2H2+PhCH2	0.164625	0.785553	0.176529	0.842358
Phenyl+Allene	0.0674364	0.852989	0.000000	0.842358
PhCCH+CH3	0.0639259	0.916915	0.0685486	0.910906

PhCHCCH2+H	0.0451268	0.962042	0.0483901	0.959297
PhCH2CCH+H	0.0182967	0.980338	0.0196198	0.978916
Ph+MeAc	0.00849313	0.988832	0.00910729	0.988024
PhCCCH3+H	0.00485364	0.993685	0.00520463	0.993228
PAH7+H	0.00482415	0.998509	0.00517299	0.998401
rad39	0.00111872	0.999628	0.00119961	0.999601
rad19anti	0.000152570	0.999781	0.000163603	0.999764
PAH9+H	8.58055e-05	0.999866	9.20100e-05	0.999856
rad30	3.45816e-05	0.999901	3.70824e-05	0.999894
rad38	3.22626e-05	0.999933	3.45956e-05	0.999928
rad19syn	2.05726e-05	0.999954	2.20602e-05	0.999950
rad35	1.85019e-05	0.999972	1.98398e-05	0.999970
rad37	8.30353e-06	0.999981	8.90399e-06	0.999979
rad54	5.61022e-06	0.999986	6.01591e-06	0.999985
rad46	5.06238e-06	0.999991	5.42846e-06	0.999990
PhcycC3H3_A+H	2.75303e-06	0.999994	2.95211e-06	0.999993
PAH3+H	1.70031e-06	0.999996	1.82327e-06	0.999995
rad60syn	6.35566e-07	0.999996	6.81526e-07	0.999996
PAH10+CH3	5.91896e-07	0.999997	6.34698e-07	0.999996
PAH1+H	5.27743e-07	0.999998	5.65906e-07	0.999997
rad50	5.26055e-07	0.999998	5.64096e-07	0.999998
rad70	4.68169e-07	0.999999	5.02024e-07	0.999998
rad60anti	3.53464e-07	0.999999	3.79023e-07	0.999999
rad67	2.86638e-07	0.999999	3.07366e-07	0.999999
rad59	2.38374e-07	0.999999	2.55613e-07	0.999999
rad55	2.28529e-07	1.000000	2.45055e-07	0.999999
rad62	1.23575e-07	1.000000	1.32511e-07	0.999999
rad34	5.38118e-08	1.000000	5.77031e-08	0.999999
rad43	3.25336e-08	1.000000	3.48862e-08	1.000000
rad51	2.94628e-08	1.000000	3.15934e-08	1.000000
rad52	1.98861e-08	1.000000	2.13241e-08	1.000000
rad53	7.16536e-09	1.000000	7.68353e-09	1.000000
rad64	2.79837e-09	1.000000	3.00073e-09	1.000000
rad56	2.33179e-09	1.000000	2.50041e-09	1.000000
rad58	2.16896e-09	1.000000	2.32580e-09	1.000000
rad42	1.71810e-09	1.000000	1.84235e-09	1.000000
rad65	9.39252e-10	1.000000	1.00717e-09	1.000000
rad68syn	2.64056e-10	1.000000	2.83151e-10	1.000000
rad41	2.24666e-10	1.000000	2.40913e-10	1.000000
rad68anti	1.78166e-10	1.000000	1.91050e-10	1.000000
PAH8+H	1.02532e-10	1.000000	1.09946e-10	1.000000
rad40syn	2.86480e-11	1.000000	3.07196e-11	1.000000
rad61	2.66398e-11	1.000000	2.85662e-11	1.000000
rad40anti	1.19773e-11	1.000000	1.28434e-11	1.000000
rad73	1.03643e-11	1.000000	1.11137e-11	1.000000
rad71	4.43764e-12	1.000000	4.75854e-12	1.000000
rad2	1.31560e-13	1.000000	1.41073e-13	1.000000
rad23	1.12884e-13	1.000000	1.21047e-13	1.000000
rad45	5.55383e-14	1.000000	5.95544e-14	1.000000
rad1	2.66569e-14	1.000000	2.85846e-14	1.000000
rad6	1.12830e-14	1.000000	1.20989e-14	1.000000
rad9	9.64937e-15	1.000000	1.03471e-14	1.000000
rad72	8.46735e-15	1.000000	9.07965e-15	1.000000
rad36	5.29914e-15	1.000000	5.68234e-15	1.000000
rad3	4.20630e-15	1.000000	4.51047e-15	1.000000
rad4	3.11950e-15	1.000000	3.34508e-15	1.000000
rad10	2.47950e-15	1.000000	2.65880e-15	1.000000
rad13	4.90701e-16	1.000000	5.26185e-16	1.000000
rad21	3.80389e-16	1.000000	4.07897e-16	1.000000
rad11	2.96292e-16	1.000000	3.17718e-16	1.000000
rad20	1.64991e-16	1.000000	1.76922e-16	1.000000
rad33	1.26647e-16	1.000000	1.35806e-16	1.000000
rad28	6.37161e-17	1.000000	6.83236e-17	1.000000
rad7	3.92613e-17	1.000000	4.21004e-17	1.000000
rad26	2.59060e-17	1.000000	2.77794e-17	1.000000
rad24	1.88184e-17	1.000000	2.01792e-17	1.000000
rad25	5.51827e-18	1.000000	5.91731e-18	1.000000
rad12	5.35710e-18	1.000000	5.74449e-18	1.000000
rad15	1.55862e-18	1.000000	1.67133e-18	1.000000
rad27	1.32692e-18	1.000000	1.42287e-18	1.000000
rad14	1.05204e-18	1.000000	1.12812e-18	1.000000
rad31	4.19944e-19	1.000000	4.50311e-19	1.000000
rad18	3.26813e-20	1.000000	3.50445e-20	1.000000
rad22	7.17184e-21	1.000000	7.69046e-21	1.000000
rad8	1.12161e-22	1.000000	1.20272e-22	1.000000
rad47	2.05588e-23	1.000000	2.20455e-23	1.000000
rad5	5.20011e-25	1.000000	5.57614e-25	1.000000

0.100000000E-06 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.98668e-13 (1.00)	7.19594e-13 (1.00)
Formation of rad11	2.67704e-13 (0.335)	2.29546e-13 (0.319)
Formation of rad6	2.87049e-13 (0.359)	2.46133e-13 (0.342)
H-abstraction	2.43915e-13 (0.305)	2.43915e-13 (0.339)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.305402	0.305402	0.338962	0.338962
Indene+H	0.272124	0.577526	0.302027	0.640989
C2H2+PhCH2	0.159453	0.736979	0.176975	0.817964
Phenyl+Allene	0.0990073	0.835987	0.000000	0.817964
PhCCH+CH3	0.0616205	0.897607	0.0683917	0.886356
PhCHCCH2+H	0.0537596	0.951367	0.0596670	0.946023
PhCH2CCH+H	0.0288969	0.980264	0.0320723	0.978095
Ph+MeAc	0.00817632	0.988440	0.00907480	0.987170
PAH7+H	0.00601184	0.994452	0.00667246	0.993842
PhCCCH3+H	0.00364277	0.998095	0.00404307	0.997885
rad39	0.00134896	0.999444	0.00149719	0.999382
rad19anti	0.000230025	0.999674	0.000255302	0.999638
PAH9+H	0.000123695	0.999797	0.000137287	0.999775
rad38	4.77792e-05	0.999845	5.30296e-05	0.999828
rad19syn	4.20371e-05	0.999887	4.66565e-05	0.999875
rad30	3.74826e-05	0.999925	4.16015e-05	0.999916
rad35	2.54628e-05	0.999950	2.82608e-05	0.999945
rad54	1.25292e-05	0.999963	1.39061e-05	0.999959
rad37	9.28205e-06	0.999972	1.03021e-05	0.999969
rad46	8.48861e-06	0.999980	9.42145e-06	0.999978
PhcycC3H3_A+H	7.44283e-06	0.999988	8.26073e-06	0.999987
PAH3+H	3.05843e-06	0.999991	3.39451e-06	0.999990
PAH1+H	1.42911e-06	0.999992	1.58616e-06	0.999991
rad50	1.24669e-06	0.999994	1.38369e-06	0.999993
PAH10+CH3	1.21323e-06	0.999995	1.34654e-06	0.999994
rad70	1.14131e-06	0.999996	1.26673e-06	0.999995
rad60syn	8.97094e-07	0.999997	9.95669e-07	0.999996
rad67	7.32850e-07	0.999998	8.13375e-07	0.999997
rad55	5.71763e-07	0.999998	6.34592e-07	0.999998
rad60anti	5.08253e-07	0.999999	5.64103e-07	0.999999
rad59	4.08645e-07	0.999999	4.53550e-07	0.999999
rad62	2.36337e-07	0.999999	2.62307e-07	0.999999
rad34	1.49947e-07	0.999999	1.66424e-07	0.999999
rad51	9.25830e-08	0.999999	1.02757e-07	0.999999
rad52	5.46149e-08	1.000000	6.06164e-08	1.000000
rad43	4.82842e-08	1.000000	5.35901e-08	1.000000
rad53	2.66802e-08	1.000000	2.96121e-08	1.000000
rad56	1.08965e-08	1.000000	1.20939e-08	1.000000
rad64	9.68714e-09	1.000000	1.07517e-08	1.000000
rad58	5.61421e-09	1.000000	6.23115e-09	1.000000
rad42	4.47913e-09	1.000000	4.97133e-09	1.000000
rad65	2.93939e-09	1.000000	3.26239e-09	1.000000
rad68syn	1.19347e-09	1.000000	1.32462e-09	1.000000
rad68anti	8.00253e-10	1.000000	8.88191e-10	1.000000
PAH8+H	6.70053e-10	1.000000	7.43681e-10	1.000000
rad41	4.94029e-10	1.000000	5.48317e-10	1.000000
rad40syn	1.60977e-10	1.000000	1.78667e-10	1.000000
rad61	1.14008e-10	1.000000	1.26536e-10	1.000000
rad40anti	7.14860e-11	1.000000	7.93411e-11	1.000000
rad73	6.98974e-11	1.000000	7.75781e-11	1.000000
rad71	3.67490e-11	1.000000	4.07872e-11	1.000000
rad72	1.23088e-13	1.000000	1.36614e-13	1.000000
rad23	5.44413e-14	1.000000	6.04238e-14	1.000000
rad2	3.21414e-14	1.000000	3.56733e-14	1.000000
rad45	3.00615e-14	1.000000	3.33649e-14	1.000000
rad9	1.42971e-14	1.000000	1.58681e-14	1.000000
rad6	9.08701e-15	1.000000	1.00856e-14	1.000000
rad1	7.08268e-15	1.000000	7.86094e-15	1.000000
rad36	2.87798e-15	1.000000	3.19422e-15	1.000000
rad13	2.41232e-15	1.000000	2.67740e-15	1.000000
rad11	1.49817e-15	1.000000	1.66280e-15	1.000000
rad3	1.39365e-15	1.000000	1.54679e-15	1.000000
rad4	1.07022e-15	1.000000	1.18783e-15	1.000000
rad21	9.56156e-16	1.000000	1.06122e-15	1.000000
rad10	6.69033e-16	1.000000	7.42551e-16	1.000000
rad20	4.65001e-16	1.000000	5.16098e-16	1.000000
rad33	2.70073e-16	1.000000	2.99751e-16	1.000000
rad7	2.24873e-16	1.000000	2.49584e-16	1.000000
rad28	3.94957e-17	1.000000	4.38358e-17	1.000000
rad24	2.48801e-17	1.000000	2.76141e-17	1.000000
rad26	1.59958e-17	1.000000	1.77535e-17	1.000000

rad25	1.49317e-17	1.000000	1.65725e-17	1.000000
rad12	9.30060e-18	1.000000	1.03226e-17	1.000000
rad15	1.93333e-18	1.000000	2.14578e-18	1.000000
rad14	1.89393e-18	1.000000	2.10206e-18	1.000000
rad27	1.85942e-18	1.000000	2.06374e-18	1.000000
rad18	4.54219e-19	1.000000	5.04132e-19	1.000000
rad31	2.32683e-19	1.000000	2.58252e-19	1.000000
rad22	4.21297e-21	1.000000	4.67591e-21	1.000000
rad8	3.75825e-21	1.000000	4.17124e-21	1.000000
rad47	6.62542e-23	1.000000	7.35346e-23	1.000000
rad5	1.21890e-24	1.000000	1.35284e-24	1.000000

0.100000000E-06 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22919e-12 (1.00)	1.06688e-12 (1.00)
Formation of rad11	3.87976e-13 (0.316)	3.11712e-13 (0.292)
Formation of rad6	4.37724e-13 (0.356)	3.51681e-13 (0.330)
H-abstraction	4.03491e-13 (0.328)	4.03491e-13 (0.378)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.328257	0.328257	0.378196	0.378196
Indene+H	0.214714	0.542971	0.247379	0.625574
C2H2+PhCH2	0.146502	0.689473	0.168789	0.794364
Phenyl+Allene	0.132044	0.821517	0.000000	0.794364
PhCHCCH2+H	0.0609574	0.882474	0.0702309	0.864595
PhCCH+CH3	0.0572446	0.939719	0.0659535	0.930548
PhCH2CCH+H	0.0407440	0.980463	0.0469425	0.977491
Ph+MeAc	0.00763489	0.988098	0.00879642	0.986287
PAH7+H	0.00694716	0.995045	0.00800405	0.994291
PhCCCH3+H	0.00267733	0.997722	0.00308464	0.997376
rad39	0.00150224	0.999224	0.00173078	0.999107
rad19anti	0.000315220	0.999539	0.000363175	0.999470
PAH9+H	0.000164386	0.999704	0.000189394	0.999659
rad19syn	7.45655e-05	0.999778	8.59091e-05	0.999745
rad38	6.50359e-05	0.999843	7.49299e-05	0.999820
rad30	3.82332e-05	0.999882	4.40497e-05	0.999864
rad35	3.25605e-05	0.999914	3.75140e-05	0.999902
rad54	2.39077e-05	0.999938	2.75448e-05	0.999929
PhcycC3H3_A+H	1.67306e-05	0.999955	1.92759e-05	0.999948
rad46	1.28371e-05	0.999968	1.47901e-05	0.999963
rad37	1.03715e-05	0.999978	1.19494e-05	0.999975
PAH3+H	4.83975e-06	0.999983	5.57602e-06	0.999981
PAH1+H	3.16887e-06	0.999986	3.65096e-06	0.999984
rad50	2.53500e-06	0.999989	2.92065e-06	0.999987
rad70	2.31279e-06	0.999991	2.66464e-06	0.999990
PAH10+CH3	2.25114e-06	0.999993	2.59361e-06	0.999993
rad67	1.57911e-06	0.999995	1.81935e-06	0.999994
rad55	1.19782e-06	0.999996	1.38006e-06	0.999996
rad60syn	1.15117e-06	0.999997	1.32630e-06	0.999997
rad60anti	6.62627e-07	0.999998	7.63433e-07	0.999998
rad59	6.18406e-07	0.999998	7.12482e-07	0.999999
rad62	3.93252e-07	0.999999	4.53078e-07	0.999999
rad34	3.40145e-07	0.999999	3.91892e-07	0.999999
rad51	2.38369e-07	0.999999	2.74633e-07	1.000000
rad52	1.25451e-07	1.000000	1.44535e-07	1.000000
rad53	7.80404e-08	1.000000	8.99129e-08	1.000000
rad43	6.37336e-08	1.000000	7.34295e-08	1.000000
rad56	3.84098e-08	1.000000	4.42533e-08	1.000000
rad64	2.61428e-08	1.000000	3.01199e-08	1.000000
rad58	1.20347e-08	1.000000	1.38656e-08	1.000000
rad42	9.67464e-09	1.000000	1.11465e-08	1.000000
rad65	7.50471e-09	1.000000	8.64638e-09	1.000000
rad68syn	4.04354e-09	1.000000	4.65870e-09	1.000000
PAH8+H	3.08736e-09	1.000000	3.55704e-09	1.000000
rad68anti	2.69715e-09	1.000000	3.10748e-09	1.000000
rad41	9.10252e-10	1.000000	1.04874e-09	1.000000
rad40syn	6.53835e-10	1.000000	7.53304e-10	1.000000
rad61	3.79380e-10	1.000000	4.37096e-10	1.000000
rad73	3.37894e-10	1.000000	3.89299e-10	1.000000
rad40anti	3.05537e-10	1.000000	3.52019e-10	1.000000
rad71	2.11150e-10	1.000000	2.43273e-10	1.000000
rad72	1.11745e-12	1.000000	1.28745e-12	1.000000
rad23	2.72310e-14	1.000000	3.13737e-14	1.000000
rad45	1.62566e-14	1.000000	1.87297e-14	1.000000
rad9	1.25332e-14	1.000000	1.44399e-14	1.000000
rad6	1.17237e-14	1.000000	1.35072e-14	1.000000
rad2	8.70841e-15	1.000000	1.00332e-14	1.000000

rad11	6.03172e-15	1.000000	6.94935e-15	1.00000
rad13	5.55338e-15	1.000000	6.39824e-15	1.00000
rad1	2.03523e-15	1.000000	2.34485e-15	1.00000
rad36	1.56360e-15	1.000000	1.80147e-15	1.00000
rad7	1.24198e-15	1.000000	1.43092e-15	1.00000
rad21	1.12703e-15	1.000000	1.29848e-15	1.00000
rad20	5.72530e-16	1.000000	6.59629e-16	1.00000
rad3	5.16042e-16	1.000000	5.94549e-16	1.00000
rad4	4.04061e-16	1.000000	4.65531e-16	1.00000
rad10	3.00433e-16	1.000000	3.46139e-16	1.00000
rad33	2.98576e-16	1.000000	3.43998e-16	1.00000
rad28	3.45530e-17	1.000000	3.98096e-17	1.00000
rad25	2.72797e-17	1.000000	3.14298e-17	1.00000
rad24	2.16988e-17	1.000000	2.49998e-17	1.00000
rad26	1.31205e-17	1.000000	1.51166e-17	1.00000
rad12	1.06574e-17	1.000000	1.22787e-17	1.00000
rad18	3.95810e-18	1.000000	4.56025e-18	1.00000
rad14	2.59084e-18	1.000000	2.98500e-18	1.00000
rad27	1.66794e-18	1.000000	1.92169e-18	1.00000
rad15	1.57989e-18	1.000000	1.82024e-18	1.00000
rad31	1.37107e-19	1.000000	1.57966e-19	1.00000
rad8	2.31129e-20	1.000000	2.66290e-20	1.00000
rad22	4.43137e-21	1.000000	5.10553e-21	1.00000
rad47	1.74352e-22	1.000000	2.00877e-22	1.00000
rad5	4.01643e-24	1.000000	4.62746e-24	1.00000

0.100000000E-06 Pa, 1200.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.80237e-12	(1.00)	1.50733e-12	(1.00)
Formation of rad11	5.38789e-13	(0.299)	4.03336e-13	(0.268)
Formation of rad6	6.34764e-13	(0.352)	4.75183e-13	(0.315)
H-abstraction	6.28816e-13	(0.349)	6.28816e-13	(0.417)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.417171	0.417171
Indene+H	0.168224	0.517107	0.201151	0.618322
Phenyl+Allene	0.163693	0.680800	0.000000	0.618322
C2H2+PhCH2	0.129445	0.810245	0.154782	0.773104
PhCHCCH2+H	0.0661470	0.876392	0.0790946	0.852199
PhCH2CCH+H	0.0526489	0.929041	0.0629537	0.915152
PhCCH+CH3	0.0518208	0.980862	0.0619641	0.977116
PAH7+H	0.00758545	0.988447	0.00907010	0.986186
Ph+MeAc	0.00700420	0.995451	0.00837514	0.994562
PhCCH3+H	0.00195097	0.997402	0.00233284	0.996894
rad39	0.00157581	0.998978	0.00188425	0.998779
rad19anti	0.000399579	0.999378	0.000477791	0.999257
PAH9+H	0.000204702	0.999582	0.000244769	0.999501
rad19syn	0.000118863	0.999701	0.000142129	0.999643
rad38	8.27680e-05	0.999784	9.89685e-05	0.999742
rad54	4.05005e-05	0.999824	4.84277e-05	0.999791
rad35	3.92969e-05	0.999864	4.69886e-05	0.999838
rad30	3.73116e-05	0.999901	4.46148e-05	0.999882
PhcycC3H3_A+H	3.27086e-05	0.999934	3.91108e-05	0.999922
rad46	1.78869e-05	0.999952	2.13880e-05	0.999943
rad37	1.16239e-05	0.999963	1.38991e-05	0.999957
PAH3+H	6.95966e-06	0.999970	8.32193e-06	0.999965
PAH1+H	6.04571e-06	0.999976	7.22906e-06	0.999972
rad50	4.57121e-06	0.999981	5.46594e-06	0.999978
rad70	4.07150e-06	0.999985	4.86843e-06	0.999983
PAH10+CH3	3.83957e-06	0.999989	4.59109e-06	0.999987
rad67	2.96796e-06	0.999992	3.54889e-06	0.999991
rad55	2.19501e-06	0.999994	2.62464e-06	0.999993
rad60syn	1.37645e-06	0.999995	1.64587e-06	0.999995
rad59	8.52866e-07	0.999996	1.01981e-06	0.999996
rad60anti	8.03342e-07	0.999997	9.60578e-07	0.999997
rad34	6.59901e-07	0.999998	7.89063e-07	0.999998
rad62	5.91358e-07	0.999998	7.07106e-07	0.999999
rad51	5.25705e-07	0.999999	6.28605e-07	0.999999
rad52	2.50703e-07	0.999999	2.99775e-07	0.999999
rad53	1.90238e-07	0.999999	2.27474e-07	1.000000
rad56	1.09448e-07	0.999999	1.30871e-07	1.000000
rad43	7.76164e-08	0.999999	9.28086e-08	1.000000
rad64	5.85550e-08	0.999999	7.00159e-08	1.000000
rad58	2.24147e-08	0.999999	2.68020e-08	1.000000
rad42	1.82035e-08	0.999999	2.17665e-08	1.000000
rad65	1.63703e-08	0.999999	1.95744e-08	1.000000
rad68syn	1.10175e-08	0.999999	1.31740e-08	1.000000

PAH8+H	1.09227e-08	0.999999	1.30606e-08	1.00000
rad68anti	7.31621e-09	0.999999	8.74827e-09	1.00000
rad40syn	2.07794e-09	0.999999	2.48466e-09	1.00000
rad41	1.48024e-09	0.999999	1.76997e-09	1.00000
rad73	1.26651e-09	0.999999	1.51441e-09	1.00000
rad61	1.03672e-09	0.999999	1.23964e-09	1.00000
rad40anti	1.01429e-09	0.999999	1.21282e-09	1.00000
rad71	9.17535e-10	0.999999	1.09712e-09	1.00000
rad72	7.08917e-12	0.999999	8.47678e-12	1.00000
rad6	1.62290e-14	0.999999	1.94055e-14	1.00000
rad11	1.50135e-14	0.999999	1.79521e-14	1.00000
rad23	1.39892e-14	0.999999	1.67273e-14	1.00000
rad9	9.27855e-15	0.999999	1.10947e-14	1.00000
rad45	8.83878e-15	0.999999	1.05688e-14	1.00000
rad13	6.46650e-15	0.999999	7.73222e-15	1.00000
rad7	4.83555e-15	0.999999	5.78203e-15	1.00000
rad2	2.57521e-15	0.999999	3.07927e-15	1.00000
rad21	8.79041e-16	0.999999	1.05110e-15	1.00000
rad36	8.56115e-16	0.999999	1.02368e-15	1.00000
rad1	6.23278e-16	0.999999	7.45275e-16	1.00000
rad20	4.28302e-16	0.999999	5.12134e-16	1.00000
rad10	2.66016e-16	0.999999	3.18084e-16	1.00000
rad33	2.25859e-16	0.999999	2.70068e-16	1.00000
rad3	2.06489e-16	0.999999	2.46906e-16	1.00000
rad4	1.63574e-16	0.999999	1.95591e-16	1.00000
rad28	4.21412e-17	0.999999	5.03896e-17	1.00000
rad25	3.12053e-17	0.999999	3.73132e-17	1.00000
rad24	1.65803e-17	0.999999	1.98256e-17	1.00000
rad18	1.63210e-17	0.999999	1.95156e-17	1.00000
rad26	1.33896e-17	0.999999	1.60104e-17	1.00000
rad12	1.03518e-17	0.999999	1.23781e-17	1.00000
rad14	2.44012e-18	0.999999	2.91773e-18	1.00000
rad15	1.72385e-18	0.999999	2.06126e-18	1.00000
rad27	1.00941e-18	0.999999	1.20699e-18	1.00000
rad31	8.42038e-20	0.999999	1.00685e-19	1.00000
rad8	5.36818e-20	0.999999	6.41893e-20	1.00000
rad22	2.58081e-20	0.999999	3.08596e-20	1.00000
rad47	3.89980e-22	0.999999	4.66312e-22	1.00000
rad5	1.67812e-23	0.999999	2.00659e-23	1.00000

0.100000000E-06 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.54148e-12 (1.00)	2.05338e-12 (1.00)
Formation of rad11	7.22991e-13 (0.284)	5.03422e-13 (0.245)
Formation of rad6	8.84215e-13 (0.348)	6.15682e-13 (0.300)
H-abstraction	9.34273e-13 (0.368)	9.34273e-13 (0.455)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.367610	0.367610	0.454993	0.454993
Phenyl+Allene	0.192054	0.559664	0.000000	0.454993
Indene+H	0.131421	0.691086	0.162661	0.617654
C2H2+PhCH2	0.111295	0.802381	0.137750	0.755405
PhCHCCH2+H	0.0692296	0.871610	0.0856859	0.841091
PhCH2CCH+H	0.0636260	0.935236	0.0787507	0.919842
PhCCH+CH3	0.0461559	0.981392	0.0571276	0.976969
PAH7+H	0.00794566	0.989338	0.00983443	0.986804
Ph+MeAc	0.00637082	0.995709	0.00788521	0.994689
rad39	0.00158196	0.997291	0.00195800	0.996647
PhCCCH3+H	0.00142376	0.998714	0.00176219	0.998409
rad19anti	0.000475489	0.999190	0.000588514	0.998997
PAH9+H	0.000242131	0.999432	0.000299688	0.999297
rad19syn	0.000174660	0.999607	0.000216178	0.999513
rad38	9.98860e-05	0.999707	0.000123629	0.999637
rad54	6.26274e-05	0.999769	7.75141e-05	0.999714
PhcycC3H3_A+H	5.74351e-05	0.999827	7.10879e-05	0.999786
rad35	4.53516e-05	0.999872	5.61319e-05	0.999842
rad30	3.53185e-05	0.999907	4.37139e-05	0.999885
rad46	2.33611e-05	0.999931	2.89142e-05	0.999914
rad37	1.29873e-05	0.999944	1.60744e-05	0.999930
PAH1+H	1.02825e-05	0.999954	1.27267e-05	0.999943
PAH3+H	9.32004e-06	0.999963	1.15354e-05	0.999955
rad50	7.49585e-06	0.999971	9.27759e-06	0.999964
rad70	6.43021e-06	0.999977	7.95868e-06	0.999972
PAH10+CH3	6.07786e-06	0.999983	7.52262e-06	0.999979
rad67	4.99567e-06	0.999988	6.18315e-06	0.999986
rad55	3.63003e-06	0.999992	4.49291e-06	0.999990
rad60syn	1.56340e-06	0.999993	1.93503e-06	0.999992

rad34	1.13462e-06	0.999995	1.40432e-06	0.999993
rad59	1.09806e-06	0.999996	1.35907e-06	0.999995
rad51	1.02620e-06	0.999997	1.27014e-06	0.999996
rad60anti	9.23688e-07	0.999998	1.14325e-06	0.999997
rad62	8.25901e-07	0.999998	1.02222e-06	0.999998
rad52	4.48900e-07	0.999999	5.55607e-07	0.999999
rad53	4.02868e-07	0.999999	4.98632e-07	0.999999
rad56	2.64598e-07	1.000000	3.27496e-07	1.000000
rad64	1.13755e-07	1.000000	1.40795e-07	1.000000
rad43	8.95932e-08	1.000000	1.10890e-07	1.000000
rad58	3.75497e-08	1.000000	4.64755e-08	1.000000
rad65	3.15601e-08	1.000000	3.90621e-08	1.000000
PAH8+H	3.15023e-08	1.000000	3.89905e-08	1.000000
rad42	3.09037e-08	1.000000	3.82497e-08	1.000000
rad68syn	2.53721e-08	1.000000	3.14033e-08	1.000000
rad68anti	1.67834e-08	1.000000	2.07729e-08	1.000000
rad40syn	5.46373e-09	1.000000	6.76250e-09	1.000000
rad73	3.88972e-09	1.000000	4.81434e-09	1.000000
rad71	3.20241e-09	1.000000	3.96364e-09	1.000000
rad40anti	2.76933e-09	1.000000	3.42762e-09	1.000000
rad61	2.41929e-09	1.000000	2.99437e-09	1.000000
rad41	2.20456e-09	1.000000	2.72860e-09	1.000000
rad72	3.39621e-11	1.000000	4.20352e-11	1.000000
rad6	2.47949e-14	1.000000	3.06889e-14	1.000000
rad11	2.12955e-14	1.000000	2.63576e-14	1.000000
rad7	1.09758e-14	1.000000	1.35848e-14	1.000000
rad23	7.37797e-15	1.000000	9.13175e-15	1.000000
rad9	6.37772e-15	1.000000	7.89377e-15	1.000000
rad13	4.91947e-15	1.000000	6.08887e-15	1.000000
rad45	4.85853e-15	1.000000	6.01344e-15	1.000000
rad2	8.14835e-16	1.000000	1.00853e-15	1.000000
rad21	5.91330e-16	1.000000	7.31895e-16	1.000000
rad36	4.74625e-16	1.000000	5.87446e-16	1.000000
rad20	2.63323e-16	1.000000	3.25917e-16	1.000000
rad10	2.44535e-16	1.000000	3.02662e-16	1.000000
rad1	2.01945e-16	1.000000	2.49949e-16	1.000000
rad33	1.50408e-16	1.000000	1.86161e-16	1.000000
rad3	8.78681e-17	1.000000	1.08755e-16	1.000000
rad4	7.01643e-17	1.000000	8.68430e-17	1.000000
rad28	6.76227e-17	1.000000	8.36972e-17	1.000000
rad18	3.07354e-17	1.000000	3.80413e-17	1.000000
rad25	2.61840e-17	1.000000	3.24081e-17	1.000000
rad26	1.53927e-17	1.000000	1.90516e-17	1.000000
rad24	1.21061e-17	1.000000	1.49838e-17	1.000000
rad12	9.25054e-18	1.000000	1.14494e-17	1.000000
rad15	6.03529e-18	1.000000	7.46991e-18	1.000000
rad14	1.73625e-18	1.000000	2.14896e-18	1.000000
rad27	4.96123e-19	1.000000	6.14053e-19	1.000000
rad22	2.79875e-19	1.000000	3.46403e-19	1.000000
rad8	7.86598e-20	1.000000	9.73573e-20	1.000000
rad31	5.35121e-20	1.000000	6.62325e-20	1.000000
rad47	7.66887e-22	1.000000	9.49183e-22	1.000000
rad5	7.55124e-23	1.000000	9.34621e-23	1.000000

0.100000000E-06 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.47024e-12 (1.00)	2.71984e-12 (1.00)
Formation of rad11	9.43269e-13 (0.272)	6.11768e-13 (0.225)
Formation of rad6	1.19194e-12 (0.343)	7.73043e-13 (0.284)
H-abstraction	1.33503e-12 (0.385)	1.33503e-12 (0.491)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.490849	0.490849
Phenyl+Allene	0.216237	0.600946	0.000000	0.490849
Indene+H	0.102753	0.703699	0.131102	0.621951
C2H2+PhCH2	0.0940337	0.797733	0.119977	0.741928
PhCH2CCH+H	0.0730480	0.870781	0.0932017	0.835129
PhCHCCH2+H	0.0704361	0.941217	0.0898693	0.924998
PhCCH+CH3	0.0407709	0.981988	0.0520195	0.977018
PAH7+H	0.00808062	0.990068	0.0103100	0.987328
Ph+MeAc	0.00578254	0.995851	0.00737791	0.994706
rad39	0.00153900	0.997390	0.00196361	0.996669
PhCCCH3+H	0.00104907	0.998439	0.00133851	0.998008
rad19anti	0.000537563	0.998977	0.000685873	0.998694
PAH9+H	0.000275092	0.999252	0.000350989	0.999045
rad19syn	0.000241019	0.999493	0.000307515	0.999352
rad38	0.000115616	0.999608	0.000147513	0.999500

PhcycC3H3_A+H	9.27188e-05	0.999701	0.000118299	0.999618
rad54	9.02066e-05	0.999791	0.000115094	0.999733
rad35	5.05796e-05	0.999842	6.45344e-05	0.999798
rad30	3.27889e-05	0.999875	4.18352e-05	0.999840
rad46	2.89889e-05	0.999904	3.69868e-05	0.999877
PAH1+H	1.59963e-05	0.999920	2.04096e-05	0.999897
rad37	1.43563e-05	0.999934	1.83172e-05	0.999915
PAH3+H	1.18378e-05	0.999946	1.51038e-05	0.999930
rad50	1.13924e-05	0.999957	1.45355e-05	0.999945
rad70	9.33021e-06	0.999967	1.19044e-05	0.999957
PAH10+CH3	9.00294e-06	0.999976	1.14868e-05	0.999968
rad67	7.68554e-06	0.999983	9.80595e-06	0.999978
rad55	5.54137e-06	0.999989	7.07023e-06	0.999985
rad51	1.81654e-06	0.999991	2.31772e-06	0.999988
rad34	1.77488e-06	0.999992	2.26456e-06	0.999990
rad60syn	1.71203e-06	0.999994	2.18438e-06	0.999992
rad59	1.34390e-06	0.999995	1.71468e-06	0.999994
rad62	1.09238e-06	0.999997	1.39377e-06	0.999995
rad60anti	1.02264e-06	0.999998	1.30479e-06	0.999996
rad53	7.63459e-07	0.999998	9.74098e-07	0.999997
rad52	7.36190e-07	0.999999	9.39297e-07	0.999998
rad56	5.61676e-07	1.000000	7.16641e-07	0.999999
rad64	1.97836e-07	1.000000	2.52418e-07	0.999999
rad43	1.00004e-07	1.000000	1.27595e-07	0.999999
PAH8+H	7.73009e-08	1.000000	9.86282e-08	1.000000
rad58	5.80225e-08	1.000000	7.40306e-08	1.000000
rad65	5.51354e-08	1.000000	7.03469e-08	1.000000
rad68syn	5.11875e-08	1.000000	6.53098e-08	1.000000
rad42	4.85214e-08	1.000000	6.19082e-08	1.000000
rad68anti	3.37456e-08	1.000000	4.30559e-08	1.000000
rad40syn	1.23711e-08	1.000000	1.57842e-08	1.000000
rad73	1.01769e-08	1.000000	1.29847e-08	1.000000
rad71	9.36208e-09	1.000000	1.19451e-08	1.000000
rad40anti	6.47926e-09	1.000000	8.26688e-09	1.000000
rad61	4.96370e-09	1.000000	6.33318e-09	1.000000
rad41	3.08784e-09	1.000000	3.93976e-09	1.000000
rad72	1.29425e-10	1.000000	1.65133e-10	1.000000
rad6	4.57086e-14	1.000000	5.83197e-14	1.000000
rad11	1.92510e-14	1.000000	2.45624e-14	1.000000
rad7	1.43224e-14	1.000000	1.82739e-14	1.000000
rad9	4.21575e-15	1.000000	5.37888e-15	1.000000
rad23	4.00184e-15	1.000000	5.10592e-15	1.000000
rad13	3.13831e-15	1.000000	4.00416e-15	1.000000
rad45	2.71132e-15	1.000000	3.45936e-15	1.000000
rad21	3.81060e-16	1.000000	4.86193e-16	1.000000
rad2	2.73686e-16	1.000000	3.49194e-16	1.000000
rad36	2.67305e-16	1.000000	3.41054e-16	1.000000
rad10	1.66479e-16	1.000000	2.12409e-16	1.000000
rad20	1.53040e-16	1.000000	1.95263e-16	1.000000
rad28	1.27953e-16	1.000000	1.63255e-16	1.000000
rad33	9.75772e-17	1.000000	1.24499e-16	1.000000
rad1	6.91187e-17	1.000000	8.81880e-17	1.000000
rad3	3.93979e-17	1.000000	5.02677e-17	1.000000
rad18	3.17460e-17	1.000000	4.05046e-17	1.000000
rad4	3.16632e-17	1.000000	4.03990e-17	1.000000
rad25	1.93942e-17	1.000000	2.47449e-17	1.000000
rad15	1.80910e-17	1.000000	2.30823e-17	1.000000
rad26	1.78890e-17	1.000000	2.28245e-17	1.000000
rad24	8.67708e-18	1.000000	1.10711e-17	1.000000
rad12	7.86877e-18	1.000000	1.00397e-17	1.000000
rad22	2.39710e-18	1.000000	3.05845e-18	1.000000
rad14	1.10830e-18	1.000000	1.41408e-18	1.000000
rad27	2.35634e-19	1.000000	3.00644e-19	1.000000
rad8	9.26462e-20	1.000000	1.18207e-19	1.000000
rad31	3.51109e-20	1.000000	4.47978e-20	1.000000
rad47	1.36054e-21	1.000000	1.73591e-21	1.000000
rad5	3.05872e-22	1.000000	3.90260e-22	1.000000

0.100000000E-06 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	4.61271e-12 (1.00)	3.52361e-12 (1.00)		
Formation of rad11	1.20217e-12 (0.261)	7.28782e-13 (0.207)		
Formation of rad6	1.56360e-12 (0.339)	9.47887e-13 (0.269)		
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.524)		
species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.524162	0.524162

Phenyl+Allene	0.236109	0.636511	0.00000	0.524162
Indene+H	0.0806435	0.717155	0.105570	0.629731
PhCH2CCH+H	0.0806387	0.797793	0.105563	0.735294
C2H2+PhCH2	0.0787062	0.876500	0.103033	0.838328
PhCHCCH2+H	0.0701571	0.946657	0.0918421	0.930170
PhCCH+CH3	0.0359368	0.982594	0.0470444	0.977214
PAH7+H	0.00805110	0.990645	0.0105396	0.987754
Ph+MeAc	0.00526035	0.995905	0.00688624	0.994640
rad39	0.00146497	0.997370	0.00191777	0.996558
PhCCCH3+H	0.000785539	0.998156	0.00102834	0.997586
rad19anti	0.000582991	0.998739	0.000763188	0.998349
rad19syn	0.000316567	0.999055	0.000414413	0.998764
PAH9+H	0.000302845	0.999358	0.000396450	0.999160
PhcycC3H3_A+H	0.000139913	0.999498	0.000183158	0.999343
rad38	0.000129499	0.999627	0.000169526	0.999513
rad54	0.000122808	0.999750	0.000160767	0.999674
rad35	5.49599e-05	0.999805	7.19472e-05	0.999746
rad46	3.45380e-05	0.999840	4.52132e-05	0.999791
rad30	3.01156e-05	0.999870	3.94239e-05	0.999830
PAH1+H	2.31901e-05	0.999893	3.03579e-05	0.999861
rad50	1.62766e-05	0.999909	2.13074e-05	0.999882
rad37	1.56192e-05	0.999925	2.04470e-05	0.999902
PAH3+H	1.44553e-05	0.999939	1.89232e-05	0.999921
rad70	1.26613e-05	0.999952	1.65747e-05	0.999938
PAH10+CH3	1.25752e-05	0.999965	1.64620e-05	0.999954
rad67	1.09793e-05	0.999976	1.43728e-05	0.999969
rad55	7.93592e-06	0.999983	1.03888e-05	0.999979
rad51	2.96749e-06	0.999986	3.88470e-06	0.999983
rad34	2.57549e-06	0.999989	3.37153e-06	0.999986
rad60syn	1.82792e-06	0.999991	2.39290e-06	0.999989
rad59	1.58467e-06	0.999992	2.07447e-06	0.999991
rad62	1.38706e-06	0.999994	1.81579e-06	0.999993
rad53	1.32204e-06	0.999995	1.73067e-06	0.999994
rad52	1.12378e-06	0.999996	1.47114e-06	0.999996
rad60anti	1.10268e-06	0.999997	1.44350e-06	0.999997
rad56	1.07222e-06	0.999998	1.40364e-06	0.999999
rad64	3.15087e-07	0.999999	4.12476e-07	0.999999
PAH8+H	1.66252e-07	0.999999	2.17639e-07	0.999999
rad43	1.09523e-07	0.999999	1.43375e-07	0.999999
rad68syn	9.28291e-08	0.999999	1.21521e-07	0.999999
rad65	8.88724e-08	0.999999	1.16342e-07	1.000000
rad58	8.42069e-08	0.999999	1.10234e-07	1.000000
rad42	7.16663e-08	0.999999	9.38173e-08	1.000000
rad68anti	6.10163e-08	0.999999	7.98757e-08	1.000000
rad40syn	2.48114e-08	0.999999	3.24802e-08	1.000000
rad71	2.35639e-08	0.999999	3.08472e-08	1.000000
rad73	2.32861e-08	0.999999	3.04835e-08	1.000000
rad40anti	1.33700e-08	0.999999	1.75025e-08	1.000000
rad61	9.14968e-09	0.999999	1.19777e-08	1.000000
rad41	4.14357e-09	0.999999	5.42427e-09	1.000000
rad72	4.05222e-10	0.999999	5.30469e-10	1.000000
rad6	9.16797e-14	0.999999	1.20017e-13	1.000000
rad11	1.35770e-14	0.999999	1.77735e-14	1.000000
rad7	1.25067e-14	0.999999	1.63724e-14	1.000000
rad9	2.73376e-15	0.999999	3.57874e-15	1.000000
rad23	2.22899e-15	0.999999	2.91794e-15	1.000000
rad13	1.89899e-15	0.999999	2.48595e-15	1.000000
rad45	1.53875e-15	0.999999	2.01436e-15	1.000000
rad28	2.45205e-16	0.999999	3.20995e-16	1.000000
rad21	2.42952e-16	0.999999	3.18045e-16	1.000000
rad36	1.53170e-16	0.999999	2.00514e-16	1.000000
rad2	9.70221e-17	0.999999	1.27010e-16	1.000000
rad10	8.82008e-17	0.999999	1.15463e-16	1.000000
rad20	8.79172e-17	0.999999	1.15092e-16	1.000000
rad33	6.33589e-17	0.999999	8.29424e-17	1.000000
rad15	2.99287e-17	0.999999	3.91793e-17	1.000000
rad1	2.49410e-17	0.999999	3.26500e-17	1.000000
rad18	2.34697e-17	0.999999	3.07239e-17	1.000000
rad26	1.92002e-17	0.999999	2.51348e-17	1.000000
rad3	1.85587e-17	0.999999	2.42949e-17	1.000000
rad4	1.49936e-17	0.999999	1.96279e-17	1.000000
rad25	1.37831e-17	0.999999	1.80433e-17	1.000000
rad22	1.27475e-17	0.999999	1.66876e-17	1.000000
rad12	6.49250e-18	0.999999	8.49924e-18	1.000000
rad24	6.18581e-18	0.999999	8.09777e-18	1.000000
rad14	6.98939e-19	0.999999	9.14971e-19	1.000000
rad27	1.15740e-19	0.999999	1.51513e-19	1.000000
rad8	9.76883e-20	0.999999	1.27883e-19	1.000000
rad31	2.37694e-20	0.999999	3.11163e-20	1.000000
rad47	2.21852e-21	0.999999	2.90423e-21	1.000000

rad5 | 9.60645e-22 0.999999 | 1.25757e-21 1.00000

0.100000000E-06 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.27400e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.05237e-12 (0.168)
Formation of rad6	2.80256e-12 (0.325)	1.44565e-12 (0.230)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.602)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.601845	0.601845
Phenyl+Allene	0.272047	0.710162	0.00000	0.601845
PhCH2CCH+H	0.0933387	0.803501	0.128221	0.730066
PhCHCCH2+H	0.0656327	0.869134	0.0901606	0.820227
C2H2+PhCH2	0.0475978	0.916731	0.0653858	0.885612
Indene+H	0.0395372	0.956269	0.0543127	0.939925
PhCCH+CH3	0.0276514	0.983920	0.0379853	0.977910
PAH7+H	0.00712605	0.991046	0.00978916	0.987700
Ph+MeAc	0.00488545	0.995931	0.00671122	0.994411
rad39	0.00123375	0.997165	0.00169483	0.996106
rad19anti	0.000564116	0.997729	0.000774933	0.996881
rad19syn	0.000506158	0.998235	0.000695318	0.997576
PhCCH3+H	0.000461483	0.998697	0.000633946	0.998210
PhcycC3H3_A+H	0.000354596	0.999052	0.000487115	0.998697
PAH9+H	0.000266731	0.999318	0.000366412	0.999063
rad54	0.000215004	0.999533	0.000295354	0.999359
rad38	0.000142764	0.999676	0.000196118	0.999555
rad35	4.88397e-05	0.999725	6.70919e-05	0.999622
PAH1+H	4.24056e-05	0.999767	5.82532e-05	0.999680
rad46	3.79670e-05	0.999805	5.21559e-05	0.999732
rad50	2.38701e-05	0.999829	3.27908e-05	0.999765
rad30	2.30179e-05	0.999852	3.16201e-05	0.999797
PAH10+CH3	2.22275e-05	0.999874	3.05343e-05	0.999827
rad70	2.20506e-05	0.999896	3.02913e-05	0.999858
PAH3+H	2.08052e-05	0.999917	2.85805e-05	0.999886
rad55	1.72026e-05	0.999934	2.36314e-05	0.999910
rad67	1.69163e-05	0.999951	2.32382e-05	0.999933
rad37	1.61425e-05	0.999968	2.21752e-05	0.999955
rad51	6.11253e-06	0.999974	8.39689e-06	0.999964
rad34	5.25680e-06	0.999979	7.22134e-06	0.999971
rad53	4.39527e-06	0.999983	6.03786e-06	0.999977
rad56	3.99314e-06	0.999987	5.48546e-06	0.999982
rad62	2.35598e-06	0.999990	3.23645e-06	0.999986
rad59	2.06481e-06	0.999992	2.83647e-06	0.999988
rad52	2.03181e-06	0.999994	2.79112e-06	0.999991
rad60syn	1.94292e-06	0.999996	2.66902e-06	0.999994
rad60anti	1.30713e-06	0.999997	1.79563e-06	0.999996
rad64	7.88600e-07	0.999998	1.08332e-06	0.999997
PAH8+H	5.90480e-07	0.999998	8.11153e-07	0.999998
rad68syn	2.81742e-07	0.999999	3.87034e-07	0.999998
rad68anti	1.82569e-07	0.999999	2.50799e-07	0.999998
rad65	1.74382e-07	0.999999	2.39552e-07	0.999998
rad42	1.70585e-07	0.999999	2.34336e-07	0.999999
rad58	1.57351e-07	0.999999	2.16156e-07	0.999999
rad43	1.31435e-07	0.999999	1.80554e-07	0.999999
rad71	1.24696e-07	1.000000	1.71297e-07	0.999999
rad73	9.95914e-08	1.000000	1.36810e-07	0.999999
rad40syn	8.39457e-08	1.000000	1.15318e-07	1.000000
rad40anti	5.01024e-08	1.000000	6.88266e-08	1.000000
rad61	2.64237e-08	1.000000	3.62987e-08	1.000000
rad41	7.91859e-09	1.000000	1.08779e-08	1.000000
rad72	3.69499e-09	1.000000	5.07588e-09	1.000000
rad6	2.67943e-13	1.000000	3.68078e-13	1.000000
rad7	2.29314e-15	1.000000	3.15012e-15	1.000000
rad11	1.74060e-15	1.000000	2.39109e-15	1.000000
rad28	6.31593e-16	1.000000	8.67631e-16	1.000000
rad23	4.58942e-16	1.000000	6.30454e-16	1.000000
rad9	2.21533e-16	1.000000	3.04324e-16	1.000000
rad13	1.60832e-16	1.000000	2.20939e-16	1.000000
rad45	1.32484e-16	1.000000	1.81995e-16	1.000000
rad22	8.40665e-17	1.000000	1.15483e-16	1.000000
rad36	2.29359e-17	1.000000	3.15074e-17	1.000000
rad21	1.98012e-17	1.000000	2.72012e-17	1.000000
rad26	1.29840e-17	1.000000	1.78363e-17	1.000000
rad15	1.11834e-17	1.000000	1.53628e-17	1.000000
rad10	7.66423e-18	1.000000	1.05285e-17	1.000000
rad20	6.44623e-18	1.000000	8.85528e-18	1.000000

rad33	5.54005e-18	1.000000	7.61045e-18	1.000000
rad18	2.99781e-18	1.000000	4.11816e-18	1.000000
rad2	2.58059e-18	1.000000	3.54500e-18	1.000000
rad25	1.43077e-18	1.000000	1.96547e-18	1.000000
rad12	7.47122e-19	1.000000	1.02634e-18	1.000000
rad1	7.08706e-19	1.000000	9.73564e-19	1.000000
rad3	6.45544e-19	1.000000	8.86798e-19	1.000000
rad24	6.07027e-19	1.000000	8.33884e-19	1.000000
rad4	4.13690e-19	1.000000	5.68290e-19	1.000000
rad14	7.58528e-20	1.000000	1.04200e-19	1.000000
rad8	2.76592e-20	1.000000	3.79959e-20	1.000000
rad27	6.88422e-21	1.000000	9.45698e-21	1.000000
rad5	5.43402e-21	1.000000	7.46481e-21	1.000000
rad47	1.43456e-21	1.000000	1.97067e-21	1.000000

0.100000000E-06 Pa, 2000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.44111e-11 (1.00)	1.02930e-11 (1.00)
Formation of rad11	3.16882e-12 (0.220)	1.47449e-12 (0.143)
Formation of rad6	4.53302e-12 (0.315)	2.10927e-12 (0.205)
H-abstraction	6.70922e-12 (0.466)	6.70922e-12 (0.652)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.651825	0.651825
Phenyl+Allene	0.285759	0.751319	0.000000	0.651825
PhCH2CCH+H	0.0971788	0.848498	0.136059	0.787884
PhCHCCH2+H	0.0592993	0.907797	0.0830241	0.870908
C2H2+PhCH2	0.0319942	0.939791	0.0447948	0.915703
Indene+H	0.0233046	0.963096	0.0326284	0.948331
PhCCH+CH3	0.0216466	0.984742	0.0303071	0.978638
PAH7+H	0.00659328	0.991336	0.00923114	0.987869
Ph+MeAc	0.00420938	0.995545	0.00589349	0.993763
rad39	0.00101472	0.996560	0.00142069	0.995183
rad19syn	0.000746783	0.997306	0.00104557	0.996229
PhcycC3H3_A+H	0.000656335	0.997963	0.000918925	0.997148
rad19anti	0.000529228	0.998492	0.000740966	0.997889
rad54	0.000330237	0.998822	0.000462359	0.998351
PhCCCH3+H	0.000291962	0.999114	0.000408772	0.998760
PAH9+H	0.000279546	0.999394	0.000391387	0.999151
rad38	0.000156414	0.999550	0.000218994	0.999370
PAH1+H	6.96990e-05	0.999620	9.75848e-05	0.999468
rad35	5.18637e-05	0.999672	7.26137e-05	0.999541
rad46	4.57412e-05	0.999717	6.40416e-05	0.999605
rad50	3.87497e-05	0.999756	5.42530e-05	0.999659
PAH10+CH3	3.34470e-05	0.999790	4.68285e-05	0.999706
rad70	3.20125e-05	0.999822	4.48203e-05	0.999751
rad55	2.86889e-05	0.999850	4.01669e-05	0.999791
PAH3+H	2.79049e-05	0.999878	3.90694e-05	0.999830
rad67	2.51584e-05	0.999903	3.52238e-05	0.999865
rad30	1.88901e-05	0.999922	2.64479e-05	0.999891
rad37	1.66057e-05	0.999939	2.32494e-05	0.999915
rad51	1.22963e-05	0.999951	1.72160e-05	0.999932
rad56	1.03249e-05	0.999961	1.44559e-05	0.999946
rad53	9.90974e-06	0.999971	1.38745e-05	0.999960
rad34	8.56178e-06	0.999980	1.19873e-05	0.999972
rad52	3.64112e-06	0.999984	5.09788e-06	0.999977
rad62	3.41505e-06	0.999987	4.78139e-06	0.999982
rad59	2.58714e-06	0.999990	3.62224e-06	0.999986
rad60syn	2.06844e-06	0.999992	2.89599e-06	0.999989
PAH8+H	1.81455e-06	0.999993	2.54053e-06	0.999991
rad64	1.47576e-06	0.999995	2.06619e-06	0.999993
rad60anti	1.42207e-06	0.999996	1.99102e-06	0.999995
rad68syn	6.53892e-07	0.999997	9.15510e-07	0.999996
rad71	4.98025e-07	0.999998	6.97277e-07	0.999997
rad68anti	4.21792e-07	0.999998	5.90544e-07	0.999997
rad73	3.38736e-07	0.999998	4.74260e-07	0.999998
rad65	3.37785e-07	0.999999	4.72930e-07	0.999998
rad42	3.12138e-07	0.999999	4.37019e-07	0.999999
rad58	2.75720e-07	0.999999	3.86032e-07	0.999999
rad40syn	2.27523e-07	0.999999	3.18551e-07	1.000000
rad43	1.62531e-07	1.000000	2.27558e-07	1.000000
rad40anti	1.42660e-07	1.000000	1.99737e-07	1.000000
rad61	5.98888e-08	1.000000	8.38493e-08	1.000000
rad72	2.09307e-08	1.000000	2.93048e-08	1.000000
rad41	1.34670e-08	1.000000	1.88550e-08	1.000000
rad6	5.87248e-14	1.000000	8.22199e-14	1.000000
rad7	5.24990e-16	1.000000	7.35033e-16	1.000000

rad11	4.12474e-16	1.000000	5.77501e-16	1.00000
rad23	2.98582e-16	1.000000	4.18040e-16	1.00000
rad28	2.01430e-16	1.000000	2.82020e-16	1.00000
rad9	7.53811e-17	1.000000	1.05540e-16	1.00000
rad13	4.89591e-17	1.000000	6.85470e-17	1.00000
rad45	4.02924e-17	1.000000	5.64128e-17	1.00000
rad22	2.64942e-17	1.000000	3.70942e-17	1.00000
rad21	7.16422e-18	1.000000	1.00305e-17	1.00000
rad36	7.13595e-18	1.000000	9.99099e-18	1.00000
rad15	3.98238e-18	1.000000	5.57568e-18	1.00000
rad26	3.09798e-18	1.000000	4.33746e-18	1.00000
rad33	2.26331e-18	1.000000	3.16884e-18	1.00000
rad20	1.89431e-18	1.000000	2.65220e-18	1.00000
rad10	1.14037e-18	1.000000	1.59662e-18	1.00000
rad18	6.66195e-19	1.000000	9.32730e-19	1.00000
rad25	5.79819e-19	1.000000	8.11799e-19	1.00000
rad12	4.14756e-19	1.000000	5.80694e-19	1.00000
rad2	3.41553e-19	1.000000	4.78205e-19	1.00000
rad24	2.85159e-19	1.000000	3.99249e-19	1.00000
rad3	1.63754e-19	1.000000	2.29271e-19	1.00000
rad4	1.04151e-19	1.000000	1.45820e-19	1.00000
rad1	9.71323e-20	1.000000	1.35994e-19	1.00000
rad14	2.92675e-20	1.000000	4.09771e-20	1.00000
rad8	2.34712e-20	1.000000	3.28617e-20	1.00000
rad5	3.72766e-21	1.000000	5.21904e-21	1.00000
rad47	2.86742e-21	1.000000	4.01464e-21	1.00000
rad27	1.89904e-21	1.000000	2.65882e-21	1.00000

0.100000000E-06 Pa, 2250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.23655e-11 (1.00)	1.58437e-11 (1.00)
Formation of rad11	4.62280e-12 (0.207)	1.98925e-12 (0.126)
Formation of rad6	6.82518e-12 (0.305)	2.93696e-12 (0.185)
H-abstraction	1.09175e-11 (0.488)	1.09175e-11 (0.689)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.689074	0.689074
Phenyl+Allene	0.291600	0.779740	0.000000	0.689074
PhCH2CCH+H	0.0967415	0.876482	0.136563	0.825637
PhCHCCH2+H	0.0532744	0.929756	0.0752040	0.900841
C2H2+PhCH2	0.0232642	0.953020	0.0328403	0.933682
PhCCH+CH3	0.0176492	0.970669	0.0249142	0.958596
Indene+H	0.0145378	0.985207	0.0205221	0.979118
PAH7+H	0.00604332	0.991251	0.00853097	0.987649
Ph+MeAc	0.00373478	0.994985	0.00527212	0.992921
PhcycC3H3_A+H	0.00104439	0.996030	0.00147430	0.994395
rad19syn	0.000992650	0.997022	0.00140125	0.995797
rad39	0.000833753	0.997856	0.00117695	0.996974
rad19anti	0.000463520	0.998320	0.000654319	0.997628
rad54	0.000448432	0.998768	0.000633020	0.998261
PAH9+H	0.000276004	0.999044	0.000389615	0.998651
PhCCCH3+H	0.000209665	0.999254	0.000295970	0.998946
rad38	0.000160719	0.999414	0.000226876	0.999173
PAH1+H	9.95931e-05	0.999514	0.000140589	0.999314
rad50	5.46328e-05	0.999569	7.71214e-05	0.999391
rad35	5.24979e-05	0.999621	7.41079e-05	0.999465
rad46	5.06983e-05	0.999672	7.15674e-05	0.999537
PAH10+CH3	4.32190e-05	0.999715	6.10093e-05	0.999598
rad55	4.15447e-05	0.999757	5.86459e-05	0.999656
rad70	4.13232e-05	0.999798	5.83331e-05	0.999715
PAH3+H	3.54273e-05	0.999833	5.00103e-05	0.999765
rad67	3.21710e-05	0.999866	4.54135e-05	0.999810
rad56	2.10958e-05	0.999887	2.97795e-05	0.999840
rad51	2.05290e-05	0.999907	2.89794e-05	0.999869
rad53	1.82253e-05	0.999925	2.57273e-05	0.999895
rad30	1.61770e-05	0.999942	2.28359e-05	0.999917
rad37	1.58091e-05	0.999957	2.23166e-05	0.999940
rad34	1.21378e-05	0.999970	1.71341e-05	0.999957
rad52	5.53699e-06	0.999975	7.81618e-06	0.999965
rad62	4.54170e-06	0.999980	6.41120e-06	0.999971
PAH8+H	4.26413e-06	0.999984	6.01937e-06	0.999977
rad59	3.10133e-06	0.999987	4.37793e-06	0.999982
rad64	2.31389e-06	0.999989	3.26637e-06	0.999985
rad60syn	2.18352e-06	0.999991	3.08232e-06	0.999988
rad60anti	1.52762e-06	0.999993	2.15643e-06	0.999990
rad71	1.42621e-06	0.999994	2.01328e-06	0.999992
rad68syn	1.22834e-06	0.999996	1.73396e-06	0.999994

rad73	8.52958e-07	0.999996	1.20406e-06	0.999995
rad68anti	7.89692e-07	0.999997	1.11475e-06	0.999996
rad65	5.43585e-07	0.999998	7.67340e-07	0.999997
rad42	4.97942e-07	0.999998	7.02910e-07	0.999998
rad40syn	4.83630e-07	0.999999	6.82706e-07	0.999998
rad58	4.30302e-07	0.999999	6.07428e-07	0.999999
rad40anti	3.15359e-07	1.000000	4.45171e-07	0.999999
rad43	2.01350e-07	1.000000	2.84232e-07	1.000000
rad61	1.06762e-07	1.000000	1.50709e-07	1.000000
rad72	7.85254e-08	1.000000	1.10849e-07	1.000000
rad41	2.11925e-08	1.000000	2.99160e-08	1.000000
rad6	1.18633e-14	1.000000	1.67466e-14	1.000000
rad7	1.68549e-16	1.000000	2.37929e-16	1.000000
rad11	1.28921e-16	1.000000	1.81988e-16	1.000000
rad23	8.43571e-17	1.000000	1.19081e-16	1.000000
rad28	4.33594e-17	1.000000	6.12076e-17	1.000000
rad9	2.74015e-17	1.000000	3.86807e-17	1.000000
rad13	1.82809e-17	1.000000	2.58058e-17	1.000000
rad45	1.39718e-17	1.000000	1.97230e-17	1.000000
rad22	6.74032e-18	1.000000	9.51483e-18	1.000000
rad21	2.97971e-18	1.000000	4.20624e-18	1.000000
rad36	2.52469e-18	1.000000	3.56393e-18	1.000000
rad15	1.60376e-18	1.000000	2.26392e-18	1.000000
rad33	1.06526e-18	1.000000	1.50376e-18	1.000000
rad26	8.47973e-19	1.000000	1.19702e-18	1.000000
rad20	6.76720e-19	1.000000	9.55283e-19	1.000000
rad10	3.04075e-19	1.000000	4.29243e-19	1.000000
rad25	2.68292e-19	1.000000	3.78730e-19	1.000000
rad12	2.31790e-19	1.000000	3.27203e-19	1.000000
rad18	2.02949e-19	1.000000	2.86490e-19	1.000000
rad24	1.45642e-19	1.000000	2.05592e-19	1.000000
rad2	6.54203e-20	1.000000	9.23497e-20	1.000000
rad3	5.33384e-20	1.000000	7.52938e-20	1.000000
rad4	3.33225e-20	1.000000	4.70390e-20	1.000000
rad8	2.01388e-20	1.000000	2.84285e-20	1.000000
rad1	1.87904e-20	1.000000	2.65251e-20	1.000000
rad14	1.40657e-20	1.000000	1.98555e-20	1.000000
rad47	4.71862e-21	1.000000	6.66093e-21	1.000000
rad5	2.19045e-21	1.000000	3.09210e-21	1.000000
rad27	7.37416e-22	1.000000	1.04096e-21	1.000000

0.100000000E-06 Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.28090e-11 (1.00)	2.31980e-11 (1.00)
Formation of rad11	6.43164e-12 (0.196)	2.60906e-12 (0.112)
Formation of rad6	9.73932e-12 (0.297)	3.95085e-12 (0.170)
H-abstraction	1.66381e-11 (0.507)	1.66381e-11 (0.717)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.717221	0.717221
Phenyl+Allene	0.292939	0.800058	0.000000	0.717221
PhCH2CCH+H	0.0943957	0.894453	0.133305	0.850725
PhCHCCH2+H	0.0481939	0.942647	0.0681609	0.918886
C2H2+PhCH2	0.0183497	0.960997	0.0259521	0.944838
PhCCH+CH3	0.0148752	0.975872	0.0210381	0.965876
Indene+H	0.00953292	0.985405	0.0134824	0.979359
PAH7+H	0.00553047	0.990936	0.00782174	0.987180
Ph+MeAc	0.00339482	0.994330	0.00480131	0.991982
PhcycC3H3_A+H	0.00149309	0.995824	0.00211168	0.994093
rad19syn	0.00122618	0.997050	0.00173419	0.995828
rad39	0.000692493	0.997742	0.000979395	0.996807
rad54	0.000558297	0.998301	0.000789599	0.997597
rad19anti	0.000392540	0.998693	0.000555170	0.998152
PAH9+H	0.000261381	0.998954	0.000369672	0.998522
PhCCCH3+H	0.000164587	0.999119	0.000232776	0.998754
rad38	0.000157797	0.999277	0.000223174	0.998977
PAH1+H	0.000129617	0.999406	0.000183319	0.999161
rad50	6.95411e-05	0.999476	9.83527e-05	0.999259
rad55	5.44673e-05	0.999530	7.70336e-05	0.999336
rad46	5.29591e-05	0.999583	7.49001e-05	0.999411
rad35	5.14100e-05	0.999635	7.27094e-05	0.999484
PAH10+CH3	5.04331e-05	0.999685	7.13277e-05	0.999555
rad70	4.95223e-05	0.999735	7.00399e-05	0.999625
PAH3+H	4.31617e-05	0.999778	6.10439e-05	0.999686
rad67	3.73882e-05	0.999815	5.28783e-05	0.999739
rad56	3.65112e-05	0.999852	5.16378e-05	0.999791
rad51	2.99347e-05	0.999882	4.23369e-05	0.999833

rad53	2.90213e-05	0.999911	4.10449e-05	0.999874
rad34	1.57208e-05	0.999926	2.22340e-05	0.999896
rad30	1.43454e-05	0.999941	2.02888e-05	0.999917
rad37	1.43019e-05	0.999955	2.02272e-05	0.999937
PAH8+H	8.32886e-06	0.999963	1.17795e-05	0.999949
rad52	7.47627e-06	0.999971	1.05737e-05	0.999959
rad62	5.70269e-06	0.999977	8.06532e-06	0.999967
rad59	3.60017e-06	0.999980	5.09173e-06	0.999972
rad64	3.22135e-06	0.999983	4.55597e-06	0.999977
rad71	3.21465e-06	0.999987	4.54650e-06	0.999981
rad60syn	2.29248e-06	0.999989	3.24226e-06	0.999985
rad68syn	1.99920e-06	0.999991	2.82747e-06	0.999988
rad73	1.73023e-06	0.999993	2.44707e-06	0.999990
rad60anti	1.62672e-06	0.999994	2.30068e-06	0.999992
rad68anti	1.28205e-06	0.999996	1.81322e-06	0.999994
rad40syn	8.70429e-07	0.999996	1.23105e-06	0.999995
rad65	7.65686e-07	0.999997	1.08291e-06	0.999996
rad42	7.25369e-07	0.999998	1.02590e-06	0.999997
rad58	6.16762e-07	0.999999	8.72293e-07	0.999998
rad40anti	5.85898e-07	0.999999	8.28640e-07	0.999999
rad43	2.45120e-07	0.999999	3.46673e-07	0.999999
rad72	2.19453e-07	1.000000	3.10373e-07	1.000000
rad61	1.61750e-07	1.000000	2.28765e-07	1.000000
rad41	3.09947e-08	1.000000	4.38359e-08	1.000000
rad6	3.24821e-15	1.000000	4.59395e-15	1.000000
rad7	6.60225e-17	1.000000	9.33758e-17	1.000000
rad11	4.80251e-17	1.000000	6.79222e-17	1.000000
rad23	2.46462e-17	1.000000	3.48571e-17	1.000000
rad28	1.17706e-17	1.000000	1.66473e-17	1.000000
rad9	1.06898e-17	1.000000	1.51187e-17	1.000000
rad13	7.91321e-18	1.000000	1.11917e-17	1.000000
rad45	5.44871e-18	1.000000	7.70611e-18	1.000000
rad22	2.12454e-18	1.000000	3.00476e-18	1.000000
rad21	1.39345e-18	1.000000	1.97077e-18	1.000000
rad36	1.00116e-18	1.000000	1.41594e-18	1.000000
rad15	6.95052e-19	1.000000	9.83015e-19	1.000000
rad33	5.56576e-19	1.000000	7.87170e-19	1.000000
rad26	3.00895e-19	1.000000	4.25558e-19	1.000000
rad20	2.88827e-19	1.000000	4.08489e-19	1.000000
rad25	1.37165e-19	1.000000	1.93993e-19	1.000000
rad12	1.32606e-19	1.000000	1.87546e-19	1.000000
rad10	1.10657e-19	1.000000	1.56503e-19	1.000000
rad24	7.99114e-20	1.000000	1.13019e-19	1.000000
rad18	7.64139e-20	1.000000	1.08073e-19	1.000000
rad3	2.12385e-20	1.000000	3.00377e-20	1.000000
rad2	1.75966e-20	1.000000	2.48869e-20	1.000000
rad8	1.74700e-20	1.000000	2.47079e-20	1.000000
rad4	1.29840e-20	1.000000	1.83634e-20	1.000000
rad14	7.76880e-21	1.000000	1.09875e-20	1.000000
rad47	6.74962e-21	1.000000	9.54604e-21	1.000000
rad1	4.93596e-21	1.000000	6.98092e-21	1.000000
rad5	1.44554e-21	1.000000	2.04444e-21	1.000000
rad27	3.67276e-22	1.000000	5.19440e-22	1.000000

0.100000000E-06 Pa, 2750.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	4.60596e-11	(1.00)	3.26255e-11	(1.00)
Formation of rad11	8.62280e-12	(0.187)	3.34633e-12	(0.103)
Formation of rad6	1.33313e-11	(0.289)	5.17360e-12	(0.159)
H-abstraction	2.41055e-11	(0.523)	2.41055e-11	(0.739)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.738856	0.738856
Phenyl+Allene	0.291669	0.815024	0.000000	0.738856
PhCH2CCH+H	0.0913925	0.906416	0.129025	0.867881
PhCHCCH2+H	0.0440897	0.950506	0.0622446	0.930126
C2H2+PhCH2	0.0155259	0.966032	0.0219190	0.952045
PhCCH+CH3	0.0128664	0.978898	0.0181644	0.970209
Indene+H	0.00652675	0.985425	0.00921427	0.979424
PAH7+H	0.00506746	0.990493	0.00715408	0.986578
Ph+MeAc	0.00315047	0.993643	0.00444775	0.991026
PhcycC3H3_A+H	0.00197300	0.995616	0.00278544	0.993811
rad19syn	0.00143568	0.997052	0.00202686	0.995838
rad54	0.000652594	0.997704	0.000921315	0.996759
rad39	0.000584043	0.998288	0.000824532	0.997584
rad19anti	0.000328573	0.998617	0.000463869	0.998048
PAH9+H	0.000240059	0.998857	0.000338907	0.998386

PAH1+H	0.000158291	0.999015	0.000223471	0.998610
rad38	0.000149711	0.999165	0.000211358	0.998821
PhCCCH3+H	0.000136861	0.999302	0.000193216	0.999015
rad50	8.19601e-05	0.999384	0.000115709	0.999130
rad55	6.64334e-05	0.999450	9.37887e-05	0.999224
rad70	5.64830e-05	0.999507	7.97407e-05	0.999304
rad56	5.59920e-05	0.999563	7.90477e-05	0.999383
PAH10+CH3	5.49972e-05	0.999618	7.76435e-05	0.999460
rad46	5.29186e-05	0.999671	7.47090e-05	0.999535
PAH3+H	5.07704e-05	0.999721	7.16761e-05	0.999607
rad35	4.92117e-05	0.999771	6.94754e-05	0.999676
rad53	4.15958e-05	0.999812	5.87239e-05	0.999735
rad67	4.08893e-05	0.999853	5.77263e-05	0.999793
rad51	3.94231e-05	0.999893	5.56562e-05	0.999848
rad34	1.91382e-05	0.999912	2.70187e-05	0.999875
PAH8+H	1.42400e-05	0.999926	2.01036e-05	0.999896
rad30	1.30159e-05	0.999939	1.83754e-05	0.999914
rad37	1.25497e-05	0.999951	1.77173e-05	0.999932
rad52	9.23200e-06	0.999961	1.30335e-05	0.999945
rad62	6.96508e-06	0.999968	9.83308e-06	0.999954
rad71	6.06264e-06	0.999974	8.55906e-06	0.999963
rad64	4.12924e-06	0.999978	5.82954e-06	0.999969
rad59	4.06487e-06	0.999982	5.73866e-06	0.999975
rad73	2.98825e-06	0.999985	4.21872e-06	0.999979
rad68syn	2.93858e-06	0.999988	4.14861e-06	0.999983
rad60syn	2.38752e-06	0.999990	3.37063e-06	0.999986
rad68anti	1.88086e-06	0.999992	2.65533e-06	0.999989
rad60anti	1.71401e-06	0.999994	2.41979e-06	0.999991
rad40syn	1.39059e-06	0.999995	1.96319e-06	0.999993
rad42	1.00618e-06	0.999996	1.42050e-06	0.999995
rad65	9.77109e-07	0.999997	1.37945e-06	0.999996
rad40anti	9.60893e-07	0.999998	1.35656e-06	0.999998
rad58	8.26832e-07	0.999999	1.16730e-06	0.999999
rad72	4.93194e-07	1.000000	6.96274e-07	0.999999
rad43	2.90363e-07	1.000000	4.09925e-07	1.000000
rad61	2.19014e-07	1.000000	3.09197e-07	1.000000
rad41	4.25216e-08	1.000000	6.00307e-08	1.000000
rad6	1.10619e-15	1.000000	1.56169e-15	1.000000
rad7	2.96669e-17	1.000000	4.18827e-17	1.000000
rad11	2.05427e-17	1.000000	2.90016e-17	1.000000
rad23	8.40740e-18	1.000000	1.18693e-17	1.000000
rad9	4.48643e-18	1.000000	6.33380e-18	1.000000
rad28	4.00878e-18	1.000000	5.65948e-18	1.000000
rad13	3.84823e-18	1.000000	5.43281e-18	1.000000
rad45	2.34591e-18	1.000000	3.31190e-18	1.000000
rad22	7.92771e-19	1.000000	1.11921e-18	1.000000
rad21	7.20273e-19	1.000000	1.01686e-18	1.000000
rad36	4.37131e-19	1.000000	6.17129e-19	1.000000
rad15	3.20713e-19	1.000000	4.52773e-19	1.000000
rad33	3.15102e-19	1.000000	4.44850e-19	1.000000
rad20	1.44342e-19	1.000000	2.03778e-19	1.000000
rad26	1.23245e-19	1.000000	1.73993e-19	1.000000
rad12	7.84782e-20	1.000000	1.10793e-19	1.000000
rad25	7.63295e-20	1.000000	1.07760e-19	1.000000
rad10	4.78209e-20	1.000000	6.75119e-20	1.000000
rad24	4.65717e-20	1.000000	6.57484e-20	1.000000
rad18	3.38453e-20	1.000000	4.77817e-20	1.000000
rad8	1.52996e-20	1.000000	2.15996e-20	1.000000
rad3	9.88033e-21	1.000000	1.39488e-20	1.000000
rad47	8.69678e-21	1.000000	1.22779e-20	1.000000
rad2	6.25759e-21	1.000000	8.83431e-21	1.000000
rad4	5.93295e-21	1.000000	8.37595e-21	1.000000
rad14	4.74805e-21	1.000000	6.70314e-21	1.000000
rad1	1.66344e-21	1.000000	2.34840e-21	1.000000
rad5	1.01382e-21	1.000000	1.43128e-21	1.000000
rad27	2.15735e-22	1.000000	3.04569e-22	1.000000

0.100000000E-06 Pa, 3000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.43911e-11 (1.00)
Formation of rad11	1.12221e-11 (0.180)	4.21269e-12 (0.0949)
Formation of rad6	1.76534e-11 (0.283)	6.62699e-12 (0.149)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.756)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.755814	0.755814
Phenyl+Allene	0.288911	0.826362	0.000000	0.755814

PhCH2CCH+H	0.0883066	0.914669	0.124185	0.879999
PhCHCCH2+H	0.0408111	0.955480	0.0573925	0.937392
C2H2+PhCH2	0.0138651	0.969345	0.0194984	0.956890
PhCCH+CH3	0.0113582	0.980703	0.0159730	0.972863
PAH7+H	0.00465329	0.985356	0.00654386	0.979407
Indene+H	0.00463895	0.989995	0.00652370	0.985931
Ph+MeAc	0.00297587	0.992971	0.00418496	0.990116
PhcycC3H3_A+H	0.00245642	0.995427	0.00345445	0.993570
rad19syn	0.00161454	0.997042	0.00227052	0.995841
rad54	0.000727890	0.997770	0.00102362	0.996864
rad39	0.000500510	0.998270	0.000703861	0.997568
rad19anti	0.000275358	0.998546	0.000387232	0.997955
PAH9+H	0.000215435	0.998761	0.000302964	0.998258
PAH1+H	0.000185098	0.998946	0.000260302	0.998519
rad38	0.000138297	0.999085	0.000194486	0.998713
PhCCCH3+H	0.000118094	0.999203	0.000166074	0.998879
rad50	9.10199e-05	0.999294	0.000128001	0.999007
rad56	7.84307e-05	0.999372	0.000110297	0.999117
rad55	7.67854e-05	0.999449	0.000107983	0.999225
rad70	6.22156e-05	0.999511	8.74935e-05	0.999313
PAH3+H	5.79162e-05	0.999569	8.14472e-05	0.999394
PAH10+CH3	5.73435e-05	0.999626	8.06419e-05	0.999475
rad53	5.50942e-05	0.999682	7.74787e-05	0.999552
rad46	5.10964e-05	0.999733	7.18563e-05	0.999624
rad51	4.79927e-05	0.999781	6.74918e-05	0.999692
rad35	4.64038e-05	0.999827	6.52572e-05	0.999757
rad67	4.30004e-05	0.999870	6.04712e-05	0.999818
rad34	2.22803e-05	0.999892	3.13327e-05	0.999849
PAH8+H	2.20424e-05	0.999914	3.09982e-05	0.999880
rad30	1.19659e-05	0.999926	1.68276e-05	0.999897
rad37	1.08360e-05	0.999937	1.52386e-05	0.999912
rad52	1.06405e-05	0.999948	1.49636e-05	0.999927
rad71	9.97847e-06	0.999958	1.40327e-05	0.999941
rad62	8.52399e-06	0.999966	1.19872e-05	0.999953
rad64	4.99011e-06	0.999971	7.01754e-06	0.999960
rad73	4.56449e-06	0.999976	6.41901e-06	0.999966
rad59	4.47702e-06	0.999980	6.29599e-06	0.999973
rad68syn	4.00554e-06	0.999984	5.63295e-06	0.999978
rad68anti	2.55993e-06	0.999987	3.60001e-06	0.999982
rad60syn	2.46101e-06	0.999989	3.46090e-06	0.999985
rad40syn	2.03324e-06	0.999991	2.85932e-06	0.999988
rad60anti	1.78407e-06	0.999993	2.50894e-06	0.999991
rad40anti	1.43624e-06	0.999995	2.01978e-06	0.999993
rad42	1.37800e-06	0.999996	1.93787e-06	0.999995
rad65	1.15674e-06	0.999997	1.62672e-06	0.999996
rad58	1.05023e-06	0.999998	1.47693e-06	0.999998
rad72	9.39261e-07	0.999999	1.32087e-06	0.999999
rad43	3.36095e-07	0.999999	4.72649e-07	1.000000
rad61	2.73990e-07	1.000000	3.85311e-07	1.000000
rad41	5.56844e-08	1.000000	7.83087e-08	1.000000
rad6	4.39144e-16	1.000000	6.17566e-16	1.000000
rad7	1.48081e-17	1.000000	2.08245e-17	1.000000
rad11	9.86334e-18	1.000000	1.38707e-17	1.000000
rad23	3.21934e-18	1.000000	4.52733e-18	1.000000
rad13	2.05537e-18	1.000000	2.89045e-18	1.000000
rad9	2.02568e-18	1.000000	2.84870e-18	1.000000
rad28	1.58940e-18	1.000000	2.23517e-18	1.000000
rad45	1.09623e-18	1.000000	1.54162e-18	1.000000
rad21	4.05034e-19	1.000000	5.69598e-19	1.000000
rad22	3.35977e-19	1.000000	4.72483e-19	1.000000
rad36	2.06679e-19	1.000000	2.90652e-19	1.000000
rad33	1.89985e-19	1.000000	2.67174e-19	1.000000
rad15	1.57397e-19	1.000000	2.21345e-19	1.000000
rad20	8.22772e-20	1.000000	1.15706e-19	1.000000
rad26	5.53805e-20	1.000000	7.78816e-20	1.000000
rad12	4.82938e-20	1.000000	6.79149e-20	1.000000
rad25	4.56474e-20	1.000000	6.41938e-20	1.000000
rad24	2.85392e-20	1.000000	4.01344e-20	1.000000
rad10	2.30374e-20	1.000000	3.23974e-20	1.000000
rad18	1.70015e-20	1.000000	2.39092e-20	1.000000
rad8	1.34844e-20	1.000000	1.89630e-20	1.000000
rad47	1.03449e-20	1.000000	1.45480e-20	1.000000
rad3	5.15228e-21	1.000000	7.24563e-21	1.000000
rad14	3.16322e-21	1.000000	4.44841e-21	1.000000
rad4	3.07009e-21	1.000000	4.31745e-21	1.000000
rad2	2.71710e-21	1.000000	3.82105e-21	1.000000
rad5	7.37400e-22	1.000000	1.03700e-21	1.000000
rad1	6.77236e-22	1.000000	9.52391e-22	1.000000
rad27	1.40640e-22	1.000000	1.97781e-22	1.000000

0.100000000E-06 Pa, 3250.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	8.22129e-11	(1.00)	5.87536e-11	(1.00)
Formation of rad11	1.42538e-11	(0.173)	5.21849e-12	(0.0888)
Formation of rad6	2.27549e-11	(0.277)	8.33083e-12	(0.142)
H-abstraction	4.52043e-11	(0.550)	4.52043e-11	(0.769)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.549844	0.549844	0.769388	0.769388
Phenyl+Allene	0.285349	0.835192	0.000000	0.769388
PhCH2CCH+H	0.0853725	0.920565	0.119460	0.888848
PhCHCCH2+H	0.0381839	0.958749	0.0534299	0.942278
C2H2+PhCH2	0.0128678	0.971617	0.0180057	0.960283
PhCCH+CH3	0.0101926	0.981809	0.0142623	0.974546
PAH7+H	0.00428274	0.986092	0.00599276	0.980539
Indene+H	0.00340695	0.989499	0.00476729	0.985306
PhcycC3H3_A+H	0.00292038	0.992419	0.00408643	0.989392
Ph+MeAc	0.00285191	0.995271	0.00399061	0.993383
rad19syn	0.00176005	0.997031	0.00246280	0.995846
rad54	0.000783510	0.997815	0.00109635	0.996942
rad39	0.000435199	0.998250	0.000608967	0.997551
rad19anti	0.000232598	0.998483	0.000325470	0.997876
PAH1+H	0.000210285	0.998693	0.000294248	0.998171
PAH9+H	0.000189946	0.998883	0.000265788	0.998436
rad38	0.000125074	0.999008	0.000175014	0.998611
PhCCCH3+H	0.000104499	0.999112	0.000146224	0.998758
rad56	0.000102496	0.999215	0.000143420	0.998901
rad50	9.64743e-05	0.999311	0.000134995	0.999036
rad55	8.51952e-05	0.999397	0.000119212	0.999155
rad53	6.86880e-05	0.999465	9.61137e-05	0.999251
rad70	6.67834e-05	0.999532	9.34486e-05	0.999345
PAH3+H	6.43467e-05	0.999596	9.00394e-05	0.999435
PAH10+CH3	5.80427e-05	0.999654	8.12183e-05	0.999516
rad51	5.49240e-05	0.999709	7.68541e-05	0.999593
rad46	4.80263e-05	0.999757	6.72021e-05	0.999660
rad67	4.40669e-05	0.999802	6.16619e-05	0.999722
rad35	4.33473e-05	0.999845	6.06552e-05	0.999783
PAH8+H	3.16111e-05	0.999876	4.42329e-05	0.999827
rad34	2.50786e-05	0.999902	3.50921e-05	0.999862
rad71	1.47743e-05	0.999916	2.06734e-05	0.999883
rad52	1.16170e-05	0.999928	1.62555e-05	0.999899
rad30	1.10774e-05	0.999939	1.55003e-05	0.999914
rad62	1.06705e-05	0.999950	1.49310e-05	0.999929
rad37	9.29424e-06	0.999959	1.30053e-05	0.999942
rad73	6.33743e-06	0.999965	8.86788e-06	0.999951
rad64	5.77649e-06	0.999971	8.08292e-06	0.999959
rad68syn	5.15348e-06	0.999976	7.21118e-06	0.999966
rad59	4.82486e-06	0.999981	6.75136e-06	0.999973
rad68anti	3.28964e-06	0.999984	4.60314e-06	0.999978
rad40syn	2.77792e-06	0.999987	3.88709e-06	0.999982
rad60syn	2.50929e-06	0.999990	3.51119e-06	0.999985
rad40anti	1.99952e-06	0.999992	2.79788e-06	0.999988
rad42	1.90464e-06	0.999994	2.66512e-06	0.999991
rad60anti	1.83422e-06	0.999995	2.56658e-06	0.999993
rad72	1.57365e-06	0.999997	2.20197e-06	0.999995
rad65	1.29208e-06	0.999998	1.80798e-06	0.999997
rad58	1.27682e-06	1.000000	1.78663e-06	0.999999
rad43	3.85029e-07	1.000000	5.38764e-07	1.000000
rad61	3.23853e-07	1.000000	4.53160e-07	1.000000
rad41	7.10639e-08	1.000000	9.94383e-08	1.000000
rad6	1.96511e-16	1.000000	2.74973e-16	1.000000
rad7	8.03353e-18	1.000000	1.12411e-17	1.000000
rad11	5.21686e-18	1.000000	7.29985e-18	1.000000
rad23	1.34932e-18	1.000000	1.88808e-18	1.000000
rad13	1.18525e-18	1.000000	1.65850e-18	1.000000
rad9	9.81849e-19	1.000000	1.37388e-18	1.000000
rad28	7.06565e-19	1.000000	9.88684e-19	1.000000
rad45	5.48362e-19	1.000000	7.67312e-19	1.000000
rad21	2.44315e-19	1.000000	3.41865e-19	1.000000
rad22	1.58051e-19	1.000000	2.21157e-19	1.000000
rad33	1.20474e-19	1.000000	1.68578e-19	1.000000
rad36	1.04350e-19	1.000000	1.46015e-19	1.000000
rad15	8.20328e-20	1.000000	1.14787e-19	1.000000
rad20	5.20430e-20	1.000000	7.28226e-20	1.000000
rad12	3.09374e-20	1.000000	4.32901e-20	1.000000
rad25	2.89947e-20	1.000000	4.05717e-20	1.000000
rad26	2.68044e-20	1.000000	3.75068e-20	1.000000

rad24	1.82403e-20	1.00000	2.55233e-20	1.00000
rad10	1.20029e-20	1.00000	1.67954e-20	1.00000
rad8	1.19193e-20	1.00000	1.66784e-20	1.00000
rad47	1.15640e-20	1.00000	1.61813e-20	1.00000
rad18	9.40390e-21	1.00000	1.31587e-20	1.00000
rad3	2.93741e-21	1.00000	4.11028e-21	1.00000
rad14	2.29549e-21	1.00000	3.21202e-21	1.00000
rad4	1.75826e-21	1.00000	2.46031e-21	1.00000
rad2	1.35691e-21	1.00000	1.89870e-21	1.00000
rad5	5.53998e-22	1.00000	7.75197e-22	1.00000
rad1	3.18923e-22	1.00000	4.46263e-22	1.00000
rad27	9.84680e-23	1.00000	1.37785e-22	1.00000

0.100000000E-06 Pa, 3500.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.05713e-10	(1.00)	7.59650e-11	(1.00)
Formation of rad11	1.77412e-11	(0.168)	6.37264e-12	(0.0839)
Formation of rad6	2.86822e-11	(0.271)	1.03027e-11	(0.136)
H-abstraction	5.92897e-11	(0.561)	5.92897e-11	(0.780)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.780487	0.780487
Phenyl+Allene	0.281404	0.842259	0.00000	0.780487
PhCH2CCH+H	0.0826656	0.924925	0.115037	0.895524
PhCHCCH2+H	0.0360585	0.960983	0.0501791	0.945703
C2H2+PhCH2	0.0122593	0.973242	0.0170600	0.962764
PhCCH+CH3	0.00927084	0.982513	0.0129013	0.975665
PAH7+H	0.00395025	0.986463	0.00549717	0.981162
PhcycC3H3_A+H	0.00334801	0.989811	0.00465910	0.985821
Ph+MeAc	0.00276398	0.992575	0.00384635	0.989667
Indene+H	0.00257590	0.995151	0.00358462	0.993252
rad19syn	0.00187235	0.997024	0.00260557	0.995858
rad54	0.000820548	0.997844	0.00114187	0.996999
rad39	0.000383055	0.998227	0.000533059	0.997533
PAH1+H	0.000234590	0.998462	0.000326455	0.997859
rad19anti	0.000198628	0.998661	0.000276411	0.998135
PAH9+H	0.000165224	0.998826	0.000229927	0.998365
rad56	0.000126873	0.998953	0.000176556	0.998542
rad38	0.000111229	0.999064	0.000154787	0.998697
rad50	9.85613e-05	0.999162	0.000137158	0.998834
PhCCCH3+H	9.42424e-05	0.999257	0.000131148	0.998965
rad55	9.15803e-05	0.999348	0.000127443	0.999092
rad53	8.16793e-05	0.999430	0.000113665	0.999206
rad70	7.02694e-05	0.999500	9.77871e-05	0.999304
PAH3+H	6.99220e-05	0.999570	9.73035e-05	0.999401
rad51	5.98507e-05	0.999630	8.32882e-05	0.999484
PAH10+CH3	5.76128e-05	0.999688	8.01742e-05	0.999565
rad67	4.43734e-05	0.999732	6.17501e-05	0.999626
rad46	4.41956e-05	0.999776	6.15029e-05	0.999688
PAH8+H	4.26935e-05	0.999819	5.94123e-05	0.999747
rad35	4.02805e-05	0.999859	5.60544e-05	0.999803
rad34	2.74951e-05	0.999887	3.82622e-05	0.999842
rad71	2.01281e-05	0.999907	2.80103e-05	0.999870
rad62	1.37116e-05	0.999920	1.90811e-05	0.999889
rad52	1.21501e-05	0.999933	1.69080e-05	0.999906
rad30	1.02915e-05	0.999943	1.43216e-05	0.999920
rad73	8.16310e-06	0.999951	1.13598e-05	0.999931
rad37	7.96636e-06	0.999959	1.10860e-05	0.999942
rad64	6.47621e-06	0.999966	9.01228e-06	0.999951
rad68syn	6.33612e-06	0.999972	8.81737e-06	0.999960
rad59	5.10458e-06	0.999977	7.10355e-06	0.999967
rad68anti	4.04059e-06	0.999981	5.62289e-06	0.999973
rad40syn	3.59895e-06	0.999985	5.00830e-06	0.999978
rad42	2.66321e-06	0.999987	3.70612e-06	0.999982
rad40anti	2.63316e-06	0.999990	3.66431e-06	0.999985
rad60syn	2.53258e-06	0.999992	3.52435e-06	0.999989
rad72	2.38441e-06	0.999995	3.31814e-06	0.999992
rad60anti	1.86455e-06	0.999997	2.59471e-06	0.999995
rad58	1.49815e-06	0.999998	2.08483e-06	0.999997
rad65	1.37925e-06	1.000000	1.91936e-06	0.999999
rad43	4.42452e-07	1.000000	6.15716e-07	0.999999
rad61	3.67258e-07	1.00000	5.11077e-07	1.000000
rad41	8.98821e-08	1.00000	1.25080e-07	1.00000
rad6	9.69826e-17	1.00000	1.34961e-16	1.00000
rad7	4.66091e-18	1.00000	6.48617e-18	1.00000
rad11	2.99098e-18	1.00000	4.16225e-18	1.00000
rad13	7.28305e-19	1.00000	1.01351e-18	1.00000

rad23	6.09551e-19	1.00000	8.48251e-19	1.00000
rad9	5.08868e-19	1.00000	7.08140e-19	1.00000
rad28	3.44705e-19	1.00000	4.79693e-19	1.00000
rad45	2.90328e-19	1.00000	4.04020e-19	1.00000
rad21	1.56206e-19	1.00000	2.17377e-19	1.00000
rad22	8.11694e-20	1.00000	1.12955e-19	1.00000
rad33	7.96109e-20	1.00000	1.10787e-19	1.00000
rad36	5.56235e-20	1.00000	7.74055e-20	1.00000
rad15	4.52557e-20	1.00000	6.29778e-20	1.00000
rad20	3.56498e-20	1.00000	4.96104e-20	1.00000
rad12	2.06000e-20	1.00000	2.86671e-20	1.00000
rad25	1.93599e-20	1.00000	2.69413e-20	1.00000
rad26	1.38427e-20	1.00000	1.92636e-20	1.00000
rad47	1.23125e-20	1.00000	1.71341e-20	1.00000
rad24	1.20836e-20	1.00000	1.68155e-20	1.00000
rad8	1.05361e-20	1.00000	1.46621e-20	1.00000
rad10	6.65384e-21	1.00000	9.25949e-21	1.00000
rad18	5.60033e-21	1.00000	7.79343e-21	1.00000
rad14	1.81848e-21	1.00000	2.53061e-21	1.00000
rad3	1.79632e-21	1.00000	2.49977e-21	1.00000
rad4	1.09288e-21	1.00000	1.52086e-21	1.00000
rad2	7.46793e-22	1.00000	1.03924e-21	1.00000
rad5	4.29352e-22	1.00000	5.97488e-22	1.00000
rad1	1.68311e-22	1.00000	2.34222e-22	1.00000
rad27	7.31080e-23	1.00000	1.01737e-22	1.00000

0.100000000E-06 Pa, 3750.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	1.33217e-10	(1.00)	9.62711e-11	(1.00)
Formation of rad11	2.17064e-11	(0.163)	7.68279e-12	(0.0798)
Formation of rad6	3.54800e-11	(0.266)	1.25578e-11	(0.130)
H-abstraction	7.60305e-11	(0.571)	7.60305e-11	(0.790)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789754	0.789754
Phenyl+Allene	0.277336	0.848063	0.00000	0.789754
PhCH2CCH+H	0.0801946	0.928257	0.110971	0.900725
PhCHCCH2+H	0.0343186	0.962576	0.0474891	0.948214
C2H2+PhCH2	0.0118838	0.974460	0.0164445	0.964658
PhCCH+CH3	0.00852836	0.982988	0.0118013	0.976459
PhcycC3H3_A+H	0.00372851	0.986717	0.00515939	0.981619
PAH7+H	0.00365085	0.990368	0.00505194	0.986671
Ph+MeAc	0.00270113	0.993069	0.00373773	0.990408
Indene+H	0.00199900	0.995068	0.00276616	0.993175
rad19syn	0.00195356	0.997021	0.00270328	0.995878
rad54	0.000841040	0.997862	0.00116381	0.997042
rad39	0.000340475	0.998203	0.000471138	0.997513
PAH1+H	0.000258935	0.998462	0.000358305	0.997871
rad19anti	0.000171610	0.998633	0.000237469	0.998109
rad56	0.000150421	0.998784	0.000208148	0.998317
PAH9+H	0.000142296	0.998926	0.000196904	0.998514
rad50	9.78214e-05	0.999024	0.000135362	0.998649
rad38	9.76287e-05	0.999121	0.000135095	0.998784
rad55	9.60227e-05	0.999217	0.000132873	0.998917
rad53	9.35446e-05	0.999311	0.000129444	0.999046
PhCCCH3+H	8.63448e-05	0.999397	0.000119481	0.999166
PAH3+H	7.46029e-05	0.999472	0.000103233	0.999269
rad70	7.27716e-05	0.999545	0.000100699	0.999370
rad51	6.27266e-05	0.999607	8.67994e-05	0.999457
PAH10+CH3	5.64592e-05	0.999664	7.81267e-05	0.999535
PAH8+H	5.49581e-05	0.999719	7.60493e-05	0.999611
rad67	4.41361e-05	0.999763	6.10741e-05	0.999672
rad46	4.00102e-05	0.999803	5.53649e-05	0.999727
rad35	3.73501e-05	0.999840	5.16839e-05	0.999779
rad34	2.95155e-05	0.999870	4.08426e-05	0.999820
rad71	2.56704e-05	0.999896	3.55219e-05	0.999855
rad62	1.78765e-05	0.999913	2.47369e-05	0.999880
rad52	1.22817e-05	0.999926	1.69950e-05	0.999897
rad73	9.90830e-06	0.999936	1.37108e-05	0.999911
rad30	9.58077e-06	0.999945	1.32576e-05	0.999924
rad68syn	7.51159e-06	0.999953	1.03943e-05	0.999934
rad64	7.08717e-06	0.999960	9.80700e-06	0.999944
rad37	6.84827e-06	0.999967	9.47639e-06	0.999954
rad59	5.31873e-06	0.999972	7.35989e-06	0.999961
rad68anti	4.78626e-06	0.999977	6.62308e-06	0.999968
rad40syn	4.46912e-06	0.999981	6.18422e-06	0.999974
rad42	3.72271e-06	0.999985	5.15138e-06	0.999979

rad72	3.33614e-06	0.999988	4.61643e-06	0.999984
rad40anti	3.31727e-06	0.999992	4.59032e-06	0.999988
rad60syn	2.53369e-06	0.999994	3.50604e-06	0.999992
rad60anti	1.87710e-06	0.999996	2.59748e-06	0.999994
rad58	1.70809e-06	0.999998	2.36361e-06	0.999997
rad65	1.42131e-06	0.999999	1.96676e-06	0.999999
rad43	5.13732e-07	1.000000	7.10883e-07	0.999999
rad61	4.03889e-07	1.000000	5.58888e-07	1.000000
rad41	1.13553e-07	1.000000	1.57130e-07	1.000000
rad6	5.19317e-17	1.000000	7.18614e-17	1.000000
rad7	2.85680e-18	1.000000	3.95315e-18	1.000000
rad11	1.83381e-18	1.000000	2.53756e-18	1.000000
rad13	4.71985e-19	1.000000	6.53121e-19	1.000000
rad23	2.93381e-19	1.000000	4.05972e-19	1.000000
rad9	2.80538e-19	1.000000	3.88200e-19	1.000000
rad28	1.81766e-19	1.000000	2.51521e-19	1.000000
rad45	1.60897e-19	1.000000	2.22644e-19	1.000000
rad21	1.04834e-19	1.000000	1.45067e-19	1.000000
rad33	5.44417e-20	1.000000	7.53345e-20	1.000000
rad22	4.48976e-20	1.000000	6.21281e-20	1.000000
rad36	3.09945e-20	1.000000	4.28891e-20	1.000000
rad15	2.63078e-20	1.000000	3.64039e-20	1.000000
rad20	2.59386e-20	1.000000	3.58930e-20	1.000000
rad12	1.42144e-20	1.000000	1.96695e-20	1.000000
rad25	1.34705e-20	1.000000	1.86401e-20	1.000000
rad47	1.26179e-20	1.000000	1.74602e-20	1.000000
rad8	9.29496e-21	1.000000	1.28621e-20	1.000000
rad24	8.25899e-21	1.000000	1.14285e-20	1.000000
rad26	7.57546e-21	1.000000	1.04827e-20	1.000000
rad10	3.88583e-21	1.000000	5.37708e-21	1.000000
rad18	3.53332e-21	1.000000	4.88931e-21	1.000000
rad14	1.56337e-21	1.000000	2.16335e-21	1.000000
rad3	1.16060e-21	1.000000	1.60600e-21	1.000000
rad4	7.24655e-22	1.000000	1.00276e-21	1.000000
rad2	4.41537e-22	1.000000	6.10985e-22	1.000000
rad5	3.42485e-22	1.000000	4.73920e-22	1.000000
rad1	9.73865e-23	1.000000	1.34760e-22	1.000000
rad27	5.73762e-23	1.000000	7.93956e-23	1.000000

0.100000000E-06 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.65008e-10 (1.00)	1.19912e-10 (1.00)
Formation of rad11	2.61707e-11 (0.159)	9.15556e-12 (0.0764)
Formation of rad6	4.31906e-11 (0.262)	1.51098e-11 (0.126)
H-abstraction	9.56470e-11 (0.580)	9.56470e-11 (0.798)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.579650	0.579650	0.797641	0.797641
Phenyl+Allene	0.273295	0.852945	0.000000	0.797641
PhCH2CCH+H	0.0779435	0.930888	0.107256	0.904897
PhCHCCH2+H	0.0328766	0.963765	0.0452408	0.950138
C2H2+PhCH2	0.0116508	0.975415	0.0160323	0.966170
PhCCH+CH3	0.00792125	0.983337	0.0109003	0.977070
PhcycC3H3_A+H	0.00405636	0.987393	0.00558187	0.982652
PAH7+H	0.00338058	0.990774	0.00465193	0.987304
Ph+MeAc	0.00265534	0.993429	0.00365394	0.990958
rad19syn	0.00200699	0.995436	0.00276178	0.993720
Indene+H	0.00158840	0.997024	0.00218576	0.995906
rad54	0.000847468	0.997872	0.00116618	0.997072
rad39	0.000304994	0.998177	0.000419695	0.997491
PAH1+H	0.000284127	0.998461	0.000390980	0.997882
rad56	0.000172242	0.998633	0.000237017	0.998119
rad19anti	0.000149971	0.998783	0.000206372	0.998326
PAH9+H	0.000121736	0.998905	0.000167518	0.998493
rad53	0.000103935	0.999009	0.000143023	0.998636
rad55	9.87033e-05	0.999108	0.000135823	0.998772
rad50	9.49261e-05	0.999203	0.000130625	0.998903
rad38	8.48536e-05	0.999287	0.000116765	0.999020
PhCCCH3+H	8.02193e-05	0.999368	0.000110388	0.999130
PAH3+H	7.84218e-05	0.999446	0.000107914	0.999238
rad70	7.43978e-05	0.999520	0.000102377	0.999340
PAH8+H	6.80299e-05	0.999588	9.36140e-05	0.999434
rad51	6.37407e-05	0.999652	8.77122e-05	0.999522
PAH10+CH3	5.48776e-05	0.999707	7.55158e-05	0.999597
rad67	4.35168e-05	0.999751	5.98821e-05	0.999657
rad46	3.57792e-05	0.999786	4.92350e-05	0.999706
rad35	3.46400e-05	0.999821	4.76673e-05	0.999754

rad34	3.11445e-05	0.999852	4.28572e-05	0.999797
rad71	3.10563e-05	0.999883	4.27358e-05	0.999839
rad62	2.32398e-05	0.999906	3.19798e-05	0.999871
rad52	1.20851e-05	0.999919	1.66300e-05	0.999888
rad73	1.14710e-05	0.999930	1.57849e-05	0.999904
rad30	8.93299e-06	0.999939	1.22925e-05	0.999916
rad68syn	8.64434e-06	0.999948	1.18952e-05	0.999928
rad64	7.61305e-06	0.999955	1.04761e-05	0.999939
rad37	5.91727e-06	0.999961	8.14263e-06	0.999947
rad68anti	5.50424e-06	0.999967	7.57424e-06	0.999954
rad59	5.47385e-06	0.999972	7.53243e-06	0.999962
rad40syn	5.36170e-06	0.999977	7.37810e-06	0.999969
rad42	5.12142e-06	0.999983	7.04750e-06	0.999976
rad72	4.37871e-06	0.999987	6.02543e-06	0.999982
rad40anti	4.03125e-06	0.999991	5.54731e-06	0.999988
rad60syn	2.51669e-06	0.999993	3.46315e-06	0.999991
rad58	1.90267e-06	0.999995	2.61822e-06	0.999994
rad60anti	1.87487e-06	0.999997	2.57996e-06	0.999996
rad65	1.42564e-06	0.999999	1.96179e-06	0.999998
rad43	6.01849e-07	0.999999	8.28191e-07	0.999999
rad61	4.34037e-07	1.000000	5.97267e-07	1.000000
rad41	1.43043e-07	1.000000	1.96838e-07	1.000000
rad6	2.97878e-17	1.000000	4.09903e-17	1.000000
rad7	1.83268e-18	1.000000	2.52190e-18	1.000000
rad11	1.18912e-18	1.000000	1.63631e-18	1.000000
rad13	3.19990e-19	1.000000	4.40329e-19	1.000000
rad9	1.63568e-19	1.000000	2.25082e-19	1.000000
rad23	1.49110e-19	1.000000	2.05186e-19	1.000000
rad28	1.02382e-19	1.000000	1.40885e-19	1.000000
rad45	9.28209e-20	1.000000	1.27728e-19	1.000000
rad21	7.32814e-20	1.000000	1.00841e-19	1.000000
rad33	3.83235e-20	1.000000	5.27360e-20	1.000000
rad22	2.64531e-20	1.000000	3.64014e-20	1.000000
rad20	1.97582e-20	1.000000	2.71888e-20	1.000000
rad36	1.79408e-20	1.000000	2.46878e-20	1.000000
rad15	1.60341e-20	1.000000	2.20640e-20	1.000000
rad47	1.25502e-20	1.000000	1.72700e-20	1.000000
rad12	1.01281e-20	1.000000	1.39370e-20	1.000000
rad25	9.69849e-21	1.000000	1.33459e-20	1.000000
rad8	8.17489e-21	1.000000	1.12493e-20	1.000000
rad24	5.80458e-21	1.000000	7.98754e-21	1.000000
rad26	4.36727e-21	1.000000	6.00972e-21	1.000000
rad10	2.37472e-21	1.000000	3.26780e-21	1.000000
rad18	2.33495e-21	1.000000	3.21308e-21	1.000000
rad14	1.43353e-21	1.000000	1.97264e-21	1.000000
rad3	7.86064e-22	1.000000	1.08168e-21	1.000000
rad4	5.06972e-22	1.000000	6.97631e-22	1.000000
rad5	2.80274e-22	1.000000	3.85678e-22	1.000000
rad2	2.76083e-22	1.000000	3.79911e-22	1.000000
rad1	6.07280e-23	1.000000	8.35662e-23	1.000000
rad27	4.74794e-23	1.000000	6.53351e-23	1.000000

0.100000000E-07 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.56740e-51 (1.00)	1.56740e-51 (1.00)
Formation of rad11	1.56740e-51 (1.000)	1.56740e-51 (1.000)
Formation of rad6	3.73945e-60 (2.39e-09)	3.73945e-60 (2.39e-09)
H-abstraction	1.53631e-76 (9.80e-26)	1.53631e-76 (9.80e-26)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987365	0.987365	0.987365	0.987365
C2H2+PhCH2	0.00821174	0.995577	0.00821174	0.995577
PhCCH+CH3	0.00218916	0.997766	0.00218916	0.997766
PhCHCCH2+H	0.00138406	0.999150	0.00138406	0.999150
PhCCCH3+H	0.000827634	0.999978	0.000827634	0.999978
Ph+MeAc	1.00126e-05	0.999988	1.00126e-05	0.999988
rad8	6.83639e-06	0.999994	6.83639e-06	0.999994
rad9	3.09918e-06	0.999998	3.09918e-06	0.999998
PAH7+H	1.76306e-06	0.999999	1.76306e-06	0.999999
rad30	4.36983e-07	1.000000	4.36983e-07	1.000000
rad12	2.10895e-07	1.000000	2.10895e-07	1.000000
rad39	1.69895e-07	1.000000	1.69895e-07	1.000000
PAH9+H	8.84733e-08	1.000000	8.84733e-08	1.000000
rad15	7.82473e-08	1.000000	7.82473e-08	1.000000
rad35	4.65656e-08	1.000000	4.65656e-08	1.000000
rad38	2.27364e-08	1.000000	2.27364e-08	1.000000
Phenyl+Allene	1.59093e-08	1.000000	0.000000	1.000000

rad46	1.47721e-10	1.00000	1.47721e-10	1.00000
rad6	5.63049e-12	1.00000	5.63049e-12	1.00000
rad60syn	3.54690e-12	1.00000	3.54690e-12	1.00000
rad28	6.42199e-13	1.00000	6.42199e-13	1.00000
rad26	1.19554e-13	1.00000	1.19554e-13	1.00000
rad2	2.48920e-15	1.00000	2.48920e-15	1.00000
rad7	4.06011e-16	1.00000	4.06011e-16	1.00000
rad1	1.57324e-16	1.00000	1.57324e-16	1.00000
rad10	1.27013e-16	1.00000	1.27013e-16	1.00000
rad11	9.94220e-17	1.00000	9.94220e-17	1.00000
rad3	2.00181e-17	1.00000	2.00181e-17	1.00000
rad14	1.76366e-17	1.00000	1.76366e-17	1.00000
rad4	1.01202e-17	1.00000	1.01202e-17	1.00000
rad25	8.51228e-18	1.00000	8.51228e-18	1.00000
rad60anti	6.00859e-18	1.00000	6.00859e-18	1.00000
rad13	2.25732e-18	1.00000	2.25732e-18	1.00000
rad27	9.69509e-19	1.00000	9.69509e-19	1.00000
PhCH2CCH+H	7.54970e-20	1.00000	7.54970e-20	1.00000
rad37	6.78808e-21	1.00000	6.78808e-21	1.00000
rad33	4.44981e-21	1.00000	4.44981e-21	1.00000
rad31	7.42004e-24	1.00000	7.42004e-24	1.00000
rad5	4.35312e-24	1.00000	4.35312e-24	1.00000
rad20	4.22190e-25	1.00000	4.22190e-25	1.00000
rad21	3.25282e-25	1.00000	3.25282e-25	1.00000
Benzene+2-propynyl	9.80165e-26	1.00000	9.80165e-26	1.00000
rad18	1.25298e-27	1.00000	1.25298e-27	1.00000
rad22	9.63424e-29	1.00000	9.63424e-29	1.00000
rad23	9.24580e-29	1.00000	9.24580e-29	1.00000
PAH3+H	7.68463e-29	1.00000	7.68463e-29	1.00000
rad59	4.11498e-29	1.00000	4.11498e-29	1.00000
rad50	1.66078e-29	1.00000	1.66078e-29	1.00000
rad45	6.05569e-31	1.00000	6.05569e-31	1.00000
rad24	1.03876e-31	1.00000	1.03876e-31	1.00000
rad36	3.77222e-32	1.00000	3.77222e-32	1.00000
rad19syn	6.03114e-38	1.00000	6.03114e-38	1.00000
rad52	7.25673e-42	1.00000	7.25673e-42	1.00000
rad54	6.96998e-43	1.00000	6.96998e-43	1.00000
PAH10+CH3	4.54102e-43	1.00000	4.54102e-43	1.00000
rad43	1.04797e-43	1.00000	1.04797e-43	1.00000
rad62	3.12487e-46	1.00000	3.12487e-46	1.00000
rad51	3.48843e-49	1.00000	3.48843e-49	1.00000
rad70	3.74780e-52	1.00000	3.74780e-52	1.00000
PhcycC3H3_A+H	1.58726e-52	1.00000	1.58726e-52	1.00000
rad55	8.54666e-53	1.00000	8.54666e-53	1.00000
rad65	2.34031e-54	1.00000	2.34031e-54	1.00000
rad58	5.33036e-56	1.00000	5.33036e-56	1.00000
PAH1+H	7.14717e-58	1.00000	7.14717e-58	1.00000
rad34	4.73193e-60	1.00000	4.73193e-60	1.00000
rad42	3.37548e-64	1.00000	3.37548e-64	1.00000
rad41	4.23570e-65	1.00000	4.23570e-65	1.00000
rad47	1.30710e-70	1.00000	1.30710e-70	1.00000

0.100000000E-07 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.03204e-39 (1.00)	5.03204e-39 (1.00)
Formation of rad11	5.03203e-39 (1.000)	5.03203e-39 (1.000)
Formation of rad6	9.92181e-45 (1.97e-06)	9.92181e-45 (1.97e-06)
H-abstraction	3.33191e-55 (6.62e-17)	3.33191e-55 (6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987257	0.987257	0.987257	0.987257
C2H2+PhCH2	0.00826608	0.995523	0.00826608	0.995523
PhCCH+CH3	0.00221703	0.997740	0.00221703	0.997740
PhCHCCH2+H	0.00139902	0.999139	0.00139902	0.999139
PhCCCH3+H	0.000837641	0.999977	0.000837641	0.999977
Ph+MeAc	1.04503e-05	0.999987	1.04503e-05	0.999987
rad8	6.94447e-06	0.999994	6.94447e-06	0.999994
rad9	3.16716e-06	0.999997	3.16716e-06	0.999997
PAH7+H	1.80747e-06	0.999999	1.80747e-06	0.999999
rad30	4.41084e-07	1.000000	4.41084e-07	1.000000
rad12	2.16608e-07	1.000000	2.16609e-07	1.000000
rad39	1.75968e-07	1.000000	1.75968e-07	1.000000
PAH9+H	8.94068e-08	1.000000	8.94068e-08	1.000000
rad15	7.91478e-08	1.000000	7.91478e-08	1.000000
rad35	4.70022e-08	1.000000	4.70022e-08	1.000000
rad38	2.30000e-08	1.000000	2.30000e-08	1.000000
Phenyl+Allene	2.15096e-08	1.000000	0.000000	1.000000

rad46	1.50532e-10	1.00000	1.50532e-10	1.00000
rad60syn	3.53053e-12	1.00000	3.53053e-12	1.00000
rad6	1.26179e-12	1.00000	1.26179e-12	1.00000
rad28	2.62326e-13	1.00000	2.62326e-13	1.00000
rad26	5.45504e-14	1.00000	5.45504e-14	1.00000
rad2	6.62498e-16	1.00000	6.62498e-16	1.00000
rad60anti	5.75563e-16	1.00000	5.75563e-16	1.00000
rad7	9.10159e-17	1.00000	9.10159e-17	1.00000
Benzene+2-propynyl	6.62139e-17	1.00000	6.62139e-17	1.00000
rad1	4.18957e-17	1.00000	4.18957e-17	1.00000
rad10	3.52817e-17	1.00000	3.52817e-17	1.00000
rad11	2.23504e-17	1.00000	2.23504e-17	1.00000
rad14	8.54693e-18	1.00000	8.54693e-18	1.00000
rad3	5.95560e-18	1.00000	5.95560e-18	1.00000
rad25	4.13052e-18	1.00000	4.13052e-18	1.00000
rad4	3.01131e-18	1.00000	3.01131e-18	1.00000
rad13	5.06111e-19	1.00000	5.06111e-19	1.00000
rad27	4.69287e-19	1.00000	4.69287e-19	1.00000
PhCH2CCH+H	4.89976e-20	1.00000	4.89976e-20	1.00000
rad37	4.43347e-21	1.00000	4.43347e-21	1.00000
rad33	1.04680e-21	1.00000	1.04680e-21	1.00000
rad31	3.70281e-24	1.00000	3.70281e-24	1.00000
rad5	2.85206e-24	1.00000	2.85206e-24	1.00000
rad20	2.05769e-25	1.00000	2.05769e-25	1.00000
rad21	1.58744e-25	1.00000	1.58744e-25	1.00000
rad18	6.04652e-28	1.00000	6.04652e-28	1.00000
PAH3+H	5.07354e-29	1.00000	5.07354e-29	1.00000
rad22	4.54782e-29	1.00000	4.54782e-29	1.00000
rad23	3.07155e-29	1.00000	3.07155e-29	1.00000
rad59	2.71637e-29	1.00000	2.71637e-29	1.00000
rad50	1.09158e-29	1.00000	1.09158e-29	1.00000
rad45	1.99876e-31	1.00000	1.99876e-31	1.00000
rad24	5.21966e-32	1.00000	5.21966e-32	1.00000
rad36	1.24469e-32	1.00000	1.24469e-32	1.00000
rad19syn	4.14636e-38	1.00000	4.14636e-38	1.00000
rad52	4.97561e-42	1.00000	4.97561e-42	1.00000
rad54	4.86774e-43	1.00000	4.86774e-43	1.00000
PAH10+CH3	3.18399e-43	1.00000	3.18399e-43	1.00000
rad43	7.34664e-44	1.00000	7.34664e-44	1.00000
rad62	2.20710e-46	1.00000	2.20710e-46	1.00000
rad51	2.45848e-49	1.00000	2.45848e-49	1.00000
rad70	2.70122e-52	1.00000	2.70122e-52	1.00000
PhcycC3H3_A+H	1.14642e-52	1.00000	1.14642e-52	1.00000
rad55	6.17168e-53	1.00000	6.17168e-53	1.00000
rad65	1.67530e-54	1.00000	1.67530e-54	1.00000
rad58	3.85699e-56	1.00000	3.85699e-56	1.00000
PAH1+H	5.26700e-58	1.00000	5.26700e-58	1.00000
rad34	3.50266e-60	1.00000	3.50266e-60	1.00000
rad42	2.53422e-64	1.00000	2.53423e-64	1.00000
rad41	3.20499e-65	1.00000	3.20499e-65	1.00000
rad47	4.75936e-71	1.00000	4.75936e-71	1.00000

0.100000000E-07 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.35697e-33 (1.00)	9.35697e-33 (1.00)
Formation of rad11	9.35644e-33 (1.000)	9.35644e-33 (1.000)
Formation of rad6	5.26139e-37 (5.62e-05)	5.26138e-37 (5.62e-05)
H-abstraction	1.44763e-44 (1.55e-12)	1.44763e-44 (1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987032	0.987032	0.987032	0.987032
C2H2+PhCH2	0.00837906	0.995411	0.00837906	0.995411
PhCCH+CH3	0.00227539	0.997686	0.00227539	0.997686
PhCHCCH2+H	0.00143024	0.999117	0.00143024	0.999117
PhCCCH3+H	0.000858549	0.999975	0.000858549	0.999975
Ph+MeAc	1.13963e-05	0.999987	1.13963e-05	0.999987
rad8	7.17279e-06	0.999994	7.17279e-06	0.999994
rad9	3.31252e-06	0.999997	3.31252e-06	0.999997
PAH7+H	1.90148e-06	0.999999	1.90148e-06	0.999999
rad30	4.49653e-07	0.999999	4.49653e-07	0.999999
rad12	2.28406e-07	1.000000	2.28406e-07	1.000000
rad39	1.89307e-07	1.000000	1.89307e-07	1.000000
PAH9+H	9.13625e-08	1.000000	9.13625e-08	1.000000
rad15	8.10356e-08	1.000000	8.10356e-08	1.000000
rad35	4.79154e-08	1.000000	4.79154e-08	1.000000
Phenyl+Allene	3.50663e-08	1.000000	0.000000	1.000000
rad38	2.35529e-08	1.000000	2.35529e-08	1.000000

rad46	1.56538e-10	1.00000	1.56538e-10	1.00000
rad60syn	3.61881e-12	1.00000	3.61881e-12	1.00000
Benzene+2-propynyl	1.54712e-12	1.00000	1.54712e-12	1.00000
rad6	5.46608e-13	1.00000	5.46608e-13	1.00000
rad28	1.57185e-13	1.00000	1.57185e-13	1.00000
rad26	3.42090e-14	1.00000	3.42090e-14	1.00000
rad60anti	1.04368e-14	1.00000	1.04368e-14	1.00000
rad2	3.56721e-16	1.00000	3.56721e-16	1.00000
rad7	3.94538e-17	1.00000	3.94539e-17	1.00000
rad1	2.25865e-17	1.00000	2.25865e-17	1.00000
rad10	1.85484e-17	1.00000	1.85484e-17	1.00000
rad11	9.71483e-18	1.00000	9.71483e-18	1.00000
rad14	5.50666e-18	1.00000	5.50666e-18	1.00000
rad3	3.35562e-18	1.00000	3.35562e-18	1.00000
rad25	2.66859e-18	1.00000	2.66859e-18	1.00000
rad4	1.69722e-18	1.00000	1.69722e-18	1.00000
PhCH2CCH+H	3.14793e-19	1.00000	3.14793e-19	1.00000
rad27	3.03644e-19	1.00000	3.03644e-19	1.00000
rad13	2.19468e-19	1.00000	2.19468e-19	1.00000
rad37	6.73781e-21	1.00000	6.73781e-21	1.00000
rad33	4.74683e-22	1.00000	4.74683e-22	1.00000
rad5	3.79126e-24	1.00000	3.79126e-24	1.00000
rad31	2.55168e-24	1.00000	2.55168e-24	1.00000
rad20	1.37684e-25	1.00000	1.37684e-25	1.00000
rad21	1.06382e-25	1.00000	1.06382e-25	1.00000
rad18	4.00445e-28	1.00000	4.00445e-28	1.00000
PAH3+H	6.50572e-29	1.00000	6.50572e-29	1.00000
rad59	3.48200e-29	1.00000	3.48200e-29	1.00000
rad22	2.97487e-29	1.00000	2.97487e-29	1.00000
rad23	1.74724e-29	1.00000	1.74724e-29	1.00000
rad50	1.39327e-29	1.00000	1.39327e-29	1.00000
rad45	1.19353e-31	1.00000	1.19353e-31	1.00000
rad24	3.62988e-32	1.00000	3.62988e-32	1.00000
rad36	7.42801e-33	1.00000	7.42801e-33	1.00000
rad19syn	5.78502e-38	1.00000	5.78502e-38	1.00000
rad52	6.90322e-42	1.00000	6.90322e-42	1.00000
rad54	7.01884e-43	1.00000	7.01884e-43	1.00000
PAH10+CH3	4.64518e-43	1.00000	4.64518e-43	1.00000
rad43	1.07143e-43	1.00000	1.07143e-43	1.00000
rad62	3.26517e-46	1.00000	3.26517e-46	1.00000
rad51	3.61299e-49	1.00000	3.61299e-49	1.00000
rad70	4.16059e-52	1.00000	4.16059e-52	1.00000
PhcycC3H3_A+H	1.77360e-52	1.00000	1.77360e-52	1.00000
rad55	9.54382e-53	1.00000	9.54382e-53	1.00000
rad65	2.54387e-54	1.00000	2.54387e-54	1.00000
rad58	5.98992e-56	1.00000	5.98992e-56	1.00000
PAH1+H	8.49972e-58	1.00000	8.49972e-58	1.00000
rad34	5.70464e-60	1.00000	5.70464e-60	1.00000
rad42	4.27294e-64	1.00000	4.27294e-64	1.00000
rad41	5.56042e-65	1.00000	5.56042e-65	1.00000
rad47	5.12182e-71	1.00000	5.12182e-71	1.00000

0.100000000E-07 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.52690e-29 (1.00)	5.52690e-29 (1.00)
Formation of rad11	5.52459e-29 (1.000)	5.52459e-29 (1.000)
Formation of rad6	2.30840e-32 (0.000418)	2.30840e-32 (0.000418)
H-abstraction	3.35357e-38 (6.07e-10)	3.35357e-38 (6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.986714	0.986714	0.986714	0.986714
C2H2+PhCH2	0.00853772	0.995252	0.00853772	0.995252
PhCCH+CH3	0.00235828	0.997610	0.00235828	0.997610
PhCHCCH2+H	0.00147438	0.999084	0.00147438	0.999084
PhCCCH3+H	0.000888161	0.999973	0.000888161	0.999973
Ph+MeAc	1.28111e-05	0.999985	1.28111e-05	0.999985
rad8	7.50105e-06	0.999993	7.50105e-06	0.999993
rad9	3.52522e-06	0.999996	3.52522e-06	0.999996
PAH7+H	2.03768e-06	0.999998	2.03768e-06	0.999998
rad30	4.61778e-07	0.999999	4.61778e-07	0.999999
rad12	2.45022e-07	0.999999	2.45022e-07	0.999999
rad39	2.09454e-07	0.999999	2.09454e-07	0.999999
PAH9+H	9.41429e-08	0.999999	9.41429e-08	0.999999
rad15	8.37236e-08	1.000000	8.37236e-08	1.000000
Phenyl+Allene	5.86040e-08	1.000000	0.000000	1.000000
rad35	4.92102e-08	1.000000	4.92102e-08	1.000000
rad38	2.43412e-08	1.000000	2.43412e-08	1.000000

Benzene+2-propynyl	6.06773e-10	1.000000	6.06773e-10	1.000000
rad46	1.65324e-10	1.000000	1.65324e-10	1.000000
rad60syn	3.93837e-12	1.000000	3.93837e-12	1.000000
rad6	3.00920e-13	1.000000	3.00920e-13	1.000000
rad28	1.07261e-13	1.000000	1.07261e-13	1.000000
rad60anti	5.61986e-14	1.000000	5.61986e-14	1.000000
rad26	2.39461e-14	1.000000	2.39461e-14	1.000000
rad2	2.21406e-16	1.000000	2.21406e-16	1.000000
PhCH2CCH+H	1.27712e-16	1.000000	1.27712e-16	1.000000
rad7	2.17402e-17	1.000000	2.17402e-17	1.000000
rad1	1.40433e-17	1.000000	1.40433e-17	1.000000
rad10	1.19944e-17	1.000000	1.19944e-17	1.000000
rad11	5.36749e-18	1.000000	5.36749e-18	1.000000
rad14	3.93599e-18	1.000000	3.93599e-18	1.000000
rad37	3.04547e-18	1.000000	3.04547e-18	1.000000
rad3	2.20493e-18	1.000000	2.20493e-18	1.000000
rad25	1.91485e-18	1.000000	1.91485e-18	1.000000
rad4	1.11571e-18	1.000000	1.11571e-18	1.000000
rad27	2.18604e-19	1.000000	2.18604e-19	1.000000
rad13	1.20994e-19	1.000000	1.20994e-19	1.000000
rad5	9.87464e-22	1.000000	9.87464e-22	1.000000
rad33	2.73298e-22	1.000000	2.73298e-22	1.000000
rad31	2.01638e-24	1.000000	2.01638e-24	1.000000
rad20	1.04256e-25	1.000000	1.04256e-25	1.000000
rad21	8.07167e-26	1.000000	8.07167e-26	1.000000
PAH3+H	1.75424e-27	1.000000	1.75424e-27	1.000000
rad50	1.22719e-27	1.000000	1.22719e-27	1.000000
rad59	9.41147e-28	1.000000	9.41147e-28	1.000000
rad18	2.99252e-28	1.000000	2.99252e-28	1.000000
rad22	2.19611e-29	1.000000	2.19611e-29	1.000000
rad23	1.21095e-29	1.000000	1.21095e-29	1.000000
rad45	8.09026e-32	1.000000	8.09026e-32	1.000000
rad24	2.89207e-32	1.000000	2.89207e-32	1.000000
rad36	5.03106e-33	1.000000	5.03106e-33	1.000000
rad19syn	1.57225e-37	1.000000	1.57225e-37	1.000000
rad52	1.86150e-41	1.000000	1.86150e-41	1.000000
rad54	1.99827e-42	1.000000	1.99827e-42	1.000000
PAH10+CH3	1.35884e-42	1.000000	1.35884e-42	1.000000
rad43	3.13258e-43	1.000000	3.13258e-43	1.000000
rad62	9.70626e-46	1.000000	9.70626e-46	1.000000
rad51	1.05673e-48	1.000000	1.05673e-48	1.000000
rad70	1.30017e-51	1.000000	1.30017e-51	1.000000
PhcycC3H3_A+H	5.57709e-52	1.000000	5.57709e-52	1.000000
rad55	2.99914e-52	1.000000	2.99914e-52	1.000000
rad65	7.79212e-54	1.000000	7.79212e-54	1.000000
rad58	1.89373e-55	1.000000	1.89373e-55	1.000000
PAH1+H	2.83867e-57	1.000000	2.83867e-57	1.000000
rad34	1.92891e-59	1.000000	1.92891e-59	1.000000
rad42	1.55940e-63	1.000000	1.55940e-63	1.000000
rad41	2.24598e-64	1.000000	2.24598e-64	1.000000
rad47	1.27801e-70	1.000000	1.27801e-70	1.000000

0.100000000E-07 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.83429e-26 (1.00)	1.83429e-26 (1.00)
Formation of rad11	1.83139e-26 (0.998)	1.83139e-26 (0.998)
Formation of rad6	2.90471e-29 (0.00158)	2.90471e-29 (0.00158)
H-abstraction	5.71259e-34 (3.11e-08)	5.71259e-34 (3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.986327	0.986327	0.986327	0.986327
C2H2+PhCH2	0.00873011	0.995057	0.00873011	0.995057
PhCCH+CH3	0.00246041	0.997517	0.00246041	0.997517
PhCHCCH2+H	0.00152844	0.999046	0.00152844	0.999046
PhCCCH3+H	0.000924500	0.999970	0.000924500	0.999970
Ph+MeAc	1.46761e-05	0.999985	1.46761e-05	0.999985
rad8	7.91046e-06	0.999993	7.91046e-06	0.999993
rad9	3.79609e-06	0.999997	3.79609e-06	0.999997
PAH7+H	2.21015e-06	0.999999	2.21015e-06	0.999999
rad30	4.76627e-07	0.999999	4.76627e-07	0.999999
rad12	2.65642e-07	1.000000	2.65642e-07	1.000000
rad39	2.35965e-07	1.000000	2.35965e-07	1.000000
PAH9+H	9.75715e-08	1.000000	9.75715e-08	1.000000
Phenyl+Allene	9.48886e-08	1.000000	0.000000	1.000000
rad15	8.70438e-08	1.000000	8.70438e-08	1.000000
rad35	5.08003e-08	1.000000	5.08003e-08	1.000000
Benzene+2-propynyl	3.11432e-08	1.000000	3.11432e-08	1.000000

rad38	2.53168e-08	1.00000	2.53168e-08	1.00000
rad46	1.76540e-10	1.00000	1.76540e-10	1.00000
rad60syn	4.52394e-12	1.00000	4.52394e-12	1.00000
rad6	1.87497e-13	1.00000	1.87497e-13	1.00000
rad60anti	1.68171e-13	1.00000	1.68171e-13	1.00000
rad28	7.81191e-14	1.00000	7.81191e-14	1.00000
rad26	1.77329e-14	1.00000	1.77329e-14	1.00000
PhCH2CCH+H	8.28128e-15	1.00000	8.28128e-15	1.00000
rad37	5.31894e-16	1.00000	5.31894e-16	1.00000
rad2	1.87145e-16	1.00000	1.87145e-16	1.00000
rad7	1.35611e-17	1.00000	1.35611e-17	1.00000
rad1	1.18959e-17	1.00000	1.18959e-17	1.00000
rad10	8.90215e-18	1.00000	8.90215e-18	1.00000
rad11	3.35713e-18	1.00000	3.35713e-18	1.00000
rad14	2.97141e-18	1.00000	2.97141e-18	1.00000
rad3	1.95099e-18	1.00000	1.95099e-18	1.00000
rad25	1.45233e-18	1.00000	1.45234e-18	1.00000
rad4	9.87761e-19	1.00000	9.87762e-19	1.00000
rad5	2.78989e-19	1.00000	2.78989e-19	1.00000
rad27	1.66553e-19	1.00000	1.66553e-19	1.00000
rad13	7.55206e-20	1.00000	7.55206e-20	1.00000
rad33	1.78150e-22	1.00000	1.78150e-22	1.00000
PAH3+H	2.18957e-24	1.00000	2.18957e-24	1.00000
rad31	1.72983e-24	1.00000	1.72983e-24	1.00000
rad59	1.18384e-24	1.00000	1.18384e-24	1.00000
rad50	7.40243e-25	1.00000	7.40243e-25	1.00000
rad20	8.45316e-26	1.00000	8.45316e-26	1.00000
rad21	6.56050e-26	1.00000	6.56050e-26	1.00000
rad18	2.38824e-28	1.00000	2.38824e-28	1.00000
rad22	1.72963e-29	1.00000	1.72963e-29	1.00000
rad23	9.35348e-30	1.00000	9.35348e-30	1.00000
rad45	7.31126e-32	1.00000	7.31126e-32	1.00000
rad24	2.49163e-32	1.00000	2.49163e-32	1.00000
rad36	4.54286e-33	1.00000	4.54286e-33	1.00000
rad19syn	1.05342e-36	1.00000	1.05342e-36	1.00000
rad52	1.23562e-40	1.00000	1.23562e-40	1.00000
rad54	1.41607e-41	1.00000	1.41607e-41	1.00000
PAH10+CH3	1.00802e-41	1.00000	1.00802e-41	1.00000
rad43	2.32264e-42	1.00000	2.32264e-42	1.00000
rad62	7.33007e-45	1.00000	7.33007e-45	1.00000
rad51	7.73903e-48	1.00000	7.73903e-48	1.00000
rad70	1.03167e-50	1.00000	1.03167e-50	1.00000
PhcycC3H3_A+H	4.45923e-51	1.00000	4.45923e-51	1.00000
rad55	2.39605e-51	1.00000	2.39605e-51	1.00000
rad65	6.03678e-53	1.00000	6.03678e-53	1.00000
rad58	1.52413e-54	1.00000	1.52413e-54	1.00000
PAH1+H	2.44651e-56	1.00000	2.44651e-56	1.00000
rad34	1.68604e-58	1.00000	1.68604e-58	1.00000
rad42	1.65441e-62	1.00000	1.65441e-62	1.00000
rad41	3.15089e-63	1.00000	3.15089e-63	1.00000
rad47	8.72653e-70	1.00000	8.72653e-70	1.00000

0.100000000E-07 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17336e-24 (1.00)	1.17336e-24 (1.00)
Formation of rad11	1.16857e-24 (0.996)	1.16857e-24 (0.996)
Formation of rad6	4.79505e-27 (0.00409)	4.79505e-27 (0.00409)
H-abstraction	5.89821e-31 (5.03e-07)	5.89821e-31 (5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.985878	0.985878	0.985878	0.985878
C2H2+PhCH2	0.00895092	0.994828	0.00895092	0.994828
PhCCH+CH3	0.00257989	0.997408	0.00257989	0.997408
PhCHCCH2+H	0.00159124	0.999000	0.00159124	0.999000
PhCCCH3+H	0.000966814	0.999966	0.000966814	0.999966
Ph+MeAc	1.70374e-05	0.999983	1.70374e-05	0.999983
rad8	8.39494e-06	0.999992	8.39494e-06	0.999992
rad9	4.12414e-06	0.999996	4.12414e-06	0.999996
PAH7+H	2.41878e-06	0.999998	2.41878e-06	0.999998
Benzene+2-propynyl	5.02676e-07	0.999999	5.02676e-07	0.999999
rad30	4.93875e-07	0.999999	4.93875e-07	0.999999
rad12	2.90303e-07	1.000000	2.90303e-07	1.000000
rad39	2.69233e-07	1.000000	2.69233e-07	1.000000
Phenyl+Allene	1.48369e-07	1.000000	0.000000	1.000000
PAH9+H	1.01588e-07	1.000000	1.01588e-07	1.000000
rad15	9.09381e-08	1.000000	9.09381e-08	1.000000
rad35	5.26534e-08	1.000000	5.26534e-08	1.000000

rad38	2.64645e-08	1.00000	2.64645e-08	1.00000
rad46	1.90209e-10	1.00000	1.90209e-10	1.00000
rad60syn	5.38168e-12	1.00000	5.38168e-12	1.00000
rad60anti	3.67497e-13	1.00000	3.67497e-13	1.00000
PhCH2CCH+H	1.68851e-13	1.00000	1.68851e-13	1.00000
rad6	1.26037e-13	1.00000	1.26037e-13	1.00000
rad28	5.91910e-14	1.00000	5.91910e-14	1.00000
rad37	2.03305e-14	1.00000	2.03305e-14	1.00000
rad26	1.35979e-14	1.00000	1.35979e-14	1.00000
rad2	1.44327e-16	1.00000	1.44327e-16	1.00000
rad5	1.57198e-17	1.00000	1.57198e-17	1.00000
rad1	9.19712e-18	1.00000	9.19712e-18	1.00000
rad7	9.12743e-18	1.00000	9.12743e-18	1.00000
rad10	6.84382e-18	1.00000	6.84382e-18	1.00000
rad14	2.32172e-18	1.00000	2.32172e-18	1.00000
rad11	2.26574e-18	1.00000	2.26574e-18	1.00000
rad3	1.63307e-18	1.00000	1.63307e-18	1.00000
rad25	1.14071e-18	1.00000	1.14071e-18	1.00000
rad4	8.27326e-19	1.00000	8.27326e-19	1.00000
rad27	1.31527e-19	1.00000	1.31527e-19	1.00000
rad13	5.08662e-20	1.00000	5.08662e-20	1.00000
PAH3+H	3.72333e-22	1.00000	3.72334e-22	1.00000
rad59	1.99040e-22	1.00000	1.99040e-22	1.00000
rad33	1.25421e-22	1.00000	1.25421e-22	1.00000
rad50	7.20092e-23	1.00000	7.20092e-23	1.00000
rad31	1.57209e-24	1.00000	1.57209e-24	1.00000
rad20	7.16486e-26	1.00000	7.16486e-26	1.00000
rad21	5.57607e-26	1.00000	5.57608e-26	1.00000
rad18	1.98789e-28	1.00000	1.98789e-28	1.00000
rad22	1.41917e-29	1.00000	1.41917e-29	1.00000
rad23	7.76843e-30	1.00000	7.76843e-30	1.00000
rad45	6.81861e-32	1.00000	6.81861e-32	1.00000
rad24	2.26116e-32	1.00000	2.26116e-32	1.00000
rad36	4.23347e-33	1.00000	4.23347e-33	1.00000
rad19syn	2.18154e-35	1.00000	2.18154e-35	1.00000
rad52	2.53275e-39	1.00000	2.53275e-39	1.00000
rad54	3.12191e-40	1.00000	3.12191e-40	1.00000
PAH10+CH3	2.29052e-40	1.00000	2.29052e-40	1.00000
rad43	5.27466e-41	1.00000	5.27466e-41	1.00000
rad62	1.72167e-43	1.00000	1.72167e-43	1.00000
rad51	1.77103e-46	1.00000	1.77103e-46	1.00000
rad70	2.58429e-49	1.00000	2.58429e-49	1.00000
PhcycC3H3_A+H	1.12684e-49	1.00000	1.12684e-49	1.00000
rad55	6.04882e-50	1.00000	6.04883e-50	1.00000
rad65	1.47266e-51	1.00000	1.47266e-51	1.00000
rad58	3.88055e-53	1.00000	3.88055e-53	1.00000
PAH1+H	6.76000e-55	1.00000	6.76000e-55	1.00000
rad34	4.73009e-57	1.00000	4.73009e-57	1.00000
rad42	6.62850e-61	1.00000	6.62850e-61	1.00000
rad41	1.78775e-61	1.00000	1.78775e-61	1.00000
rad47	1.97824e-68	1.00000	1.97824e-68	1.00000

0.100000000E-07 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.68112e-23 (1.00)	2.68112e-23 (1.00)
Formation of rad11	2.65890e-23 (0.992)	2.65889e-23 (0.992)
Formation of rad6	2.22189e-25 (0.00829)	2.22189e-25 (0.00829)
H-abstraction	1.05871e-28 (3.95e-06)	1.05871e-28 (3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.985363	0.985363	0.985364	0.985364
C2H2+PhCH2	0.00919939	0.994563	0.00919939	0.994564
PhCCH+CH3	0.00271723	0.997280	0.00271724	0.997281
PhCHCCH2+H	0.00166287	0.998943	0.00166287	0.998944
PhCCCH3+H	0.00101519	0.999958	0.00101519	0.999959
Ph+MeAc	1.99948e-05	0.999978	1.99948e-05	0.999979
rad8	8.95777e-06	0.999987	8.95778e-06	0.999988
rad9	4.51491e-06	0.999991	4.51491e-06	0.999992
Benzene+2-propynyl	3.94877e-06	0.999995	3.94877e-06	0.999996
PAH7+H	2.66788e-06	0.999998	2.66788e-06	0.999999
rad30	5.13549e-07	0.999998	5.13549e-07	0.999999
rad12	3.19532e-07	0.999999	3.19532e-07	1.000000
rad39	3.10413e-07	0.999999	3.10413e-07	1.000000
Phenyl+Allene	2.25646e-07	0.999999	0.000000	1.000000
PAH9+H	1.06216e-07	0.999999	1.06216e-07	1.000000
rad15	9.54267e-08	0.999999	9.54267e-08	1.000000
rad35	5.47753e-08	1.000000	5.47753e-08	1.000000

rad38	2.77932e-08	1.000000	2.77933e-08	1.00000
rad46	2.06652e-10	1.000000	2.06652e-10	1.00000
rad60syn	6.54537e-12	1.000000	6.54537e-12	1.00000
PhCH2CCH+H	1.67904e-12	1.000000	1.67904e-12	1.00000
rad60anti	6.70977e-13	1.000000	6.70977e-13	1.00000
rad37	3.02079e-13	1.000000	3.02079e-13	1.00000
rad6	8.91568e-14	1.000000	8.91568e-14	1.00000
rad28	4.60490e-14	1.000000	4.60490e-14	1.00000
rad26	1.06765e-14	1.000000	1.06765e-14	1.00000
rad5	3.25253e-16	1.000000	3.25253e-16	1.00000
rad2	1.09965e-16	1.000000	1.09965e-16	1.00000
rad1	7.02691e-18	1.000000	7.02691e-18	1.00000
rad7	6.46554e-18	1.000000	6.46554e-18	1.00000
rad10	5.83831e-18	1.000000	5.83832e-18	1.00000
rad14	1.85730e-18	1.000000	1.85730e-18	1.00000
rad11	1.60948e-18	1.000000	1.60948e-18	1.00000
rad3	1.11936e-18	1.000000	1.11936e-18	1.00000
rad25	9.17657e-19	1.000000	9.17657e-19	1.00000
rad4	5.67482e-19	1.000000	5.67482e-19	1.00000
rad27	1.06459e-19	1.000000	1.06459e-19	1.00000
rad13	3.60603e-20	1.000000	3.60603e-20	1.00000
PAH3+H	1.74251e-20	1.000000	1.74251e-20	1.00000
rad59	9.08292e-21	1.000000	9.08293e-21	1.00000
rad50	2.22905e-21	1.000000	2.22905e-21	1.00000
rad33	9.30709e-23	1.000000	9.30709e-23	1.00000
rad31	1.49288e-24	1.000000	1.49288e-24	1.00000
rad20	6.26557e-26	1.000000	6.26557e-26	1.00000
rad21	4.89115e-26	1.000000	4.89116e-26	1.00000
rad19syn	3.50614e-28	1.000000	3.50614e-28	1.00000
rad18	1.70364e-28	1.000000	1.70364e-28	1.00000
rad22	1.19761e-29	1.000000	1.19761e-29	1.00000
rad23	6.83868e-30	1.000000	6.83868e-30	1.00000
rad45	5.12397e-32	1.000000	5.12397e-32	1.00000
rad52	3.70717e-32	1.000000	3.70717e-32	1.00000
rad24	2.13023e-32	1.000000	2.13023e-32	1.00000
rad36	3.17911e-33	1.000000	3.17911e-33	1.00000
rad54	3.49091e-38	1.000000	3.49091e-38	1.00000
PAH10+CH3	2.43958e-38	1.000000	2.43958e-38	1.00000
rad43	5.61233e-39	1.000000	5.61233e-39	1.00000
rad62	1.94491e-41	1.000000	1.94491e-41	1.00000
rad51	2.05857e-44	1.000000	2.05857e-44	1.00000
rad70	3.29968e-47	1.000000	3.29968e-47	1.00000
PhcycC3H3_A+H	1.45183e-47	1.000000	1.45183e-47	1.00000
rad55	7.78519e-48	1.000000	7.78519e-48	1.00000
rad65	1.82934e-49	1.000000	1.82934e-49	1.00000
rad58	5.03855e-51	1.000000	5.03855e-51	1.00000
PAH1+H	9.56469e-53	1.000000	9.56469e-53	1.00000
rad34	6.78737e-55	1.000000	6.78738e-55	1.00000
rad42	1.11817e-58	1.000000	1.11817e-58	1.00000
rad41	3.34151e-59	1.000000	3.34151e-59	1.00000
rad47	2.35424e-66	1.000000	2.35424e-66	1.00000

0.100000000E-07 Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.08379e-22 (1.00)	3.08379e-22 (1.00)
Formation of rad11	3.03962e-22 (0.986)	3.03962e-22 (0.986)
Formation of rad6	4.41076e-24 (0.0143)	4.41076e-24 (0.0143)
H-abstraction	5.92916e-27 (1.92e-05)	5.92916e-27 (1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.984773	0.984773	0.984773	0.984773
C2H2+PhCH2	0.00947687	0.994250	0.00947687	0.994250
PhCCH+CH3	0.00287400	0.997124	0.00287400	0.997124
PhCHCCH2+H	0.00174397	0.998868	0.00174397	0.998868
PhCCCH3+H	0.00107007	0.999938	0.00107007	0.999938
Ph+MeAc	2.36839e-05	0.999962	2.36839e-05	0.999962
Benzene+2-propynyl	1.92269e-05	0.999981	1.92269e-05	0.999981
rad8	9.60688e-06	0.999990	9.60688e-06	0.999990
rad9	4.97777e-06	0.999995	4.97777e-06	0.999995
PAH7+H	2.96437e-06	0.999998	2.96437e-06	0.999998
rad30	5.35849e-07	0.999999	5.35849e-07	0.999999
rad39	3.61177e-07	0.999999	3.61177e-07	0.999999
rad12	3.54057e-07	1.000000	3.54057e-07	1.000000
Phenyl+Allene	3.35704e-07	1.000000	0.000000	1.000000
PAH9+H	1.11519e-07	1.000000	1.11519e-07	1.000000
rad15	1.00569e-07	1.000000	1.00569e-07	1.000000
rad35	5.71905e-08	1.000000	5.71906e-08	1.000000

rad38	2.93239e-08	1.00000	2.93239e-08	1.000000
rad46	2.26380e-10	1.00000	2.26381e-10	1.000000
PhCH2CCH+H	1.03766e-11	1.00000	1.03766e-11	1.000000
rad60syn	8.08805e-12	1.00000	8.08805e-12	1.000000
rad37	2.40347e-12	1.00000	2.40347e-12	1.000000
rad60anti	1.09982e-12	1.00000	1.09982e-12	1.000000
rad6	6.53921e-14	1.00000	6.53922e-14	1.000000
rad28	3.64928e-14	1.00000	3.64928e-14	1.000000
rad26	8.52377e-15	1.00000	8.52377e-15	1.000000
rad5	3.47577e-15	1.00000	3.47578e-15	1.000000
rad2	9.18346e-17	1.00000	9.18346e-17	1.000000
rad1	5.88644e-18	1.00000	5.88644e-18	1.000000
rad10	4.97973e-18	1.00000	4.97973e-18	1.000000
rad7	4.74918e-18	1.00000	4.74918e-18	1.000000
rad14	1.51093e-18	1.00000	1.51093e-18	1.000000
rad11	1.18566e-18	1.00000	1.18566e-18	1.000000
rad3	1.01927e-18	1.00000	1.01927e-18	1.000000
rad25	7.50959e-19	1.00000	7.50959e-19	1.000000
rad4	5.17152e-19	1.00000	5.17152e-19	1.000000
PAH3+H	3.47530e-19	1.00000	3.47530e-19	1.000000
rad59	1.74970e-19	1.00000	1.74970e-19	1.000000
rad27	8.77083e-20	1.00000	8.77083e-20	1.000000
rad50	3.24534e-20	1.00000	3.24534e-20	1.000000
rad13	2.65103e-20	1.00000	2.65103e-20	1.000000
rad33	7.17557e-23	1.00000	7.17557e-23	1.000000
rad31	1.46870e-24	1.00000	1.46870e-24	1.000000
rad19syn	1.46098e-25	1.00000	1.46098e-25	1.000000
rad20	5.60705e-26	1.00000	5.60705e-26	1.000000
rad21	4.39170e-26	1.00000	4.39171e-26	1.000000
rad18	1.49125e-28	1.00000	1.49125e-28	1.000000
rad52	1.23076e-29	1.00000	1.23076e-29	1.000000
rad22	1.03114e-29	1.00000	1.03114e-29	1.000000
rad54	6.85400e-30	1.00000	6.85400e-30	1.000000
rad23	6.34312e-30	1.00000	6.34313e-30	1.000000
PAH10+CH3	3.92949e-30	1.00000	3.92950e-30	1.000000
rad43	9.86339e-31	1.00000	9.86339e-31	1.000000
rad45	5.16880e-32	1.00000	5.16880e-32	1.000000
rad24	2.06467e-32	1.00000	2.06467e-32	1.000000
rad36	3.20512e-33	1.00000	3.20512e-33	1.000000
rad62	7.45638e-39	1.00000	7.45639e-39	1.000000
rad51	8.13632e-42	1.00000	8.13632e-42	1.000000
rad70	1.43688e-44	1.00000	1.43689e-44	1.000000
PhcycC3H3_A+H	6.38007e-45	1.00000	6.38007e-45	1.000000
rad55	3.41746e-45	1.00000	3.41747e-45	1.000000
rad65	7.73697e-47	1.00000	7.73697e-47	1.000000
rad58	2.23135e-48	1.00000	2.23135e-48	1.000000
PAH1+H	4.59904e-50	1.00000	4.59904e-50	1.000000
rad34	3.31278e-52	1.00000	3.31278e-52	1.000000
rad42	5.22349e-56	1.00000	5.22349e-56	1.000000
rad41	1.49027e-56	1.00000	1.49027e-56	1.000000
rad47	9.71396e-64	1.00000	9.71396e-64	1.000000

0.100000000E-07 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14497e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.984079	0.984079	0.984079	0.984079
C2H2+PhCH2	0.00978517	0.993864	0.00978517	0.993864
PhCCH+CH3	0.00305204	0.996916	0.00305205	0.996916
PhCHCCH2+H	0.00183526	0.998751	0.00183526	0.998751
PhCCCH3+H	0.00113197	0.999883	0.00113197	0.999883
Benzene+2-propynyl	6.70630e-05	0.999951	6.70630e-05	0.999951
Ph+MeAc	2.82650e-05	0.999979	2.82650e-05	0.999979
rad8	1.03515e-05	0.999989	1.03515e-05	0.999989
rad9	5.52401e-06	0.999995	5.52401e-06	0.999995
PAH7+H	3.31663e-06	0.999998	3.31664e-06	0.999998
rad30	5.61023e-07	0.999999	5.61023e-07	0.999999
Phenyl+Allene	4.90181e-07	0.999999	0.00000	0.999999
rad39	4.23538e-07	0.999999	4.23538e-07	0.999999
rad12	3.94675e-07	1.000000	3.94676e-07	0.999999
PAH9+H	1.17578e-07	1.000000	1.17578e-07	0.999999
rad15	1.06440e-07	1.00000	1.06440e-07	1.000000
rad35	5.99301e-08	1.00000	5.99301e-08	1.000000

rad38	3.10826e-08	1.00000	3.10827e-08	1.000000
rad46	2.50021e-10	1.00000	2.50021e-10	1.000000
PhCH2CCH+H	4.60547e-11	1.00000	4.60547e-11	1.000000
rad37	1.24003e-11	1.00000	1.24003e-11	1.000000
rad60syn	1.01171e-11	1.00000	1.01172e-11	1.000000
rad60anti	1.68510e-12	1.00000	1.68510e-12	1.000000
rad6	4.92558e-14	1.00000	4.92558e-14	1.000000
rad28	2.93064e-14	1.00000	2.93064e-14	1.000000
rad5	2.34974e-14	1.00000	2.34974e-14	1.000000
rad26	6.88783e-15	1.00000	6.88783e-15	1.000000
rad2	1.01120e-16	1.00000	1.01120e-16	1.000000
rad1	6.50347e-18	1.00000	6.50347e-18	1.000000
rad10	4.43894e-18	1.00000	4.43894e-18	1.000000
PAH3+H	3.83495e-18	1.00000	3.83495e-18	1.000000
rad7	3.58284e-18	1.00000	3.58285e-18	1.000000
rad59	1.85459e-18	1.00000	1.85460e-18	1.000000
rad14	1.24435e-18	1.00000	1.24435e-18	1.000000
rad3	1.19333e-18	1.00000	1.19333e-18	1.000000
rad11	8.97185e-19	1.00000	8.97186e-19	1.000000
rad25	6.22306e-19	1.00000	6.22307e-19	1.000000
rad4	6.06004e-19	1.00000	6.06004e-19	1.000000
rad50	2.80692e-19	1.00000	2.80692e-19	1.000000
rad27	7.32110e-20	1.00000	7.32111e-20	1.000000
rad13	2.00182e-20	1.00000	2.00182e-20	1.000000
rad33	5.69504e-23	1.00000	5.69505e-23	1.000000
rad19syn	1.69256e-23	1.00000	1.69256e-23	1.000000
rad31	1.48860e-24	1.00000	1.48860e-24	1.000000
rad20	5.10734e-26	1.00000	5.10734e-26	1.000000
rad21	4.01466e-26	1.00000	4.01466e-26	1.000000
rad54	3.44316e-27	1.00000	3.44316e-27	1.000000
PAH10+CH3	2.22551e-27	1.00000	2.22552e-27	1.000000
rad52	1.20084e-27	1.00000	1.20084e-27	1.000000
rad43	5.29879e-28	1.00000	5.29880e-28	1.000000
rad18	1.32616e-28	1.00000	1.32616e-28	1.000000
rad22	9.01063e-30	1.00000	9.01063e-30	1.000000
rad62	6.92562e-30	1.00000	6.92563e-30	1.000000
rad23	6.19444e-30	1.00000	6.19444e-30	1.000000
rad45	5.66194e-32	1.00000	5.66194e-32	1.000000
rad24	2.04665e-32	1.00000	2.04665e-32	1.000000
rad51	7.64880e-33	1.00000	7.64881e-33	1.000000
rad36	3.50950e-33	1.00000	3.50950e-33	1.000000
rad70	1.30428e-41	1.00000	1.30428e-41	1.000000
PhcycC3H3_A+H	5.84620e-42	1.00000	5.84620e-42	1.000000
rad55	3.12785e-42	1.00000	3.12785e-42	1.000000
rad65	6.80770e-44	1.00000	6.80771e-44	1.000000
rad58	2.06092e-45	1.00000	2.06092e-45	1.000000
PAH1+H	4.61601e-47	1.00000	4.61601e-47	1.000000
rad34	3.37656e-49	1.00000	3.37656e-49	1.000000
rad42	4.72659e-53	1.00000	4.72659e-53	1.000000
rad41	1.17343e-53	1.00000	1.17343e-53	1.000000
rad47	8.46297e-61	1.00000	8.46297e-61	1.000000

0.100000000E-07 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06526e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44007e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.983241	0.983241	0.983241	0.983241
C2H2+PhCH2	0.0101259	0.993367	0.0101259	0.993367
PhCCH+CH3	0.00325306	0.996620	0.00325306	0.996620
PhCHCCH2+H	0.00193739	0.998558	0.00193739	0.998558
PhCCCH3+H	0.00120137	0.999759	0.00120137	0.999759
Benzene+2-propynyl	0.000183695	0.999943	0.000183695	0.999943
Ph+MeAc	3.39186e-05	0.999977	3.39186e-05	0.999977
rad8	1.12010e-05	0.999988	1.12010e-05	0.999988
rad9	6.16606e-06	0.999994	6.16606e-06	0.999994
PAH7+H	3.73399e-06	0.999998	3.73400e-06	0.999998
Phenyl+Allene	7.03848e-07	0.999999	0.00000	0.999998
rad30	5.89324e-07	0.999999	5.89324e-07	0.999998
rad39	4.99784e-07	1.000000	4.99784e-07	0.999999
rad12	4.42197e-07	1.000000	4.42197e-07	0.999999
PAH9+H	1.24478e-07	1.000000	1.24478e-07	0.999999
rad15	1.13116e-07	1.000000	1.13116e-07	1.000000
rad35	6.30257e-08	1.000000	6.30258e-08	1.000000

rad38	3.30971e-08	1.00000	3.30971e-08	1.000000
rad46	2.78305e-10	1.00000	2.78305e-10	1.000000
PhCH2CCH+H	1.60863e-10	1.00000	1.60863e-10	1.000000
rad37	4.68308e-11	1.00000	4.68308e-11	1.000000
rad60syn	1.27711e-11	1.00000	1.27711e-11	1.000000
rad60anti	2.47072e-12	1.00000	2.47072e-12	1.000000
rad5	1.14181e-13	1.00000	1.14181e-13	1.000000
rad6	3.78558e-14	1.00000	3.78558e-14	1.000000
rad28	2.37655e-14	1.00000	2.37655e-14	1.000000
rad26	5.61558e-15	1.00000	5.61558e-15	1.000000
rad2	7.02880e-17	1.00000	7.02881e-17	1.000000
PAH3+H	2.76229e-17	1.00000	2.76229e-17	1.000000
rad59	1.27985e-17	1.00000	1.27985e-17	1.000000
rad1	4.53714e-18	1.00000	4.53714e-18	1.000000
rad10	3.79836e-18	1.00000	3.79836e-18	1.000000
rad7	2.75812e-18	1.00000	2.75812e-18	1.000000
rad50	1.67195e-18	1.00000	1.67195e-18	1.000000
rad14	1.03424e-18	1.00000	1.03424e-18	1.000000
rad3	8.05856e-19	1.00000	8.05857e-19	1.000000
rad11	6.92852e-19	1.00000	6.92852e-19	1.000000
rad25	5.20575e-19	1.00000	5.20575e-19	1.000000
rad4	4.09634e-19	1.00000	4.09635e-19	1.000000
rad27	6.17169e-20	1.00000	6.17169e-20	1.000000
rad13	1.54255e-20	1.00000	1.54255e-20	1.000000
rad19syn	8.11793e-22	1.00000	8.11794e-22	1.000000
rad33	4.62443e-23	1.00000	4.62443e-23	1.000000
rad31	1.54868e-24	1.00000	1.54868e-24	1.000000
rad54	3.80819e-25	1.00000	3.80819e-25	1.000000
PAH10+CH3	2.48851e-25	1.00000	2.48851e-25	1.000000
rad43	5.95378e-26	1.00000	5.95378e-26	1.000000
rad52	5.03875e-26	1.00000	5.03875e-26	1.000000
rad20	4.71790e-26	1.00000	4.71790e-26	1.000000
rad21	3.72279e-26	1.00000	3.72279e-26	1.000000
rad62	1.37871e-27	1.00000	1.37871e-27	1.000000
rad18	1.19380e-28	1.00000	1.19380e-28	1.000000
rad22	7.96231e-30	1.00000	7.96231e-30	1.000000
rad23	6.38003e-30	1.00000	6.38004e-30	1.000000
rad51	1.43630e-30	1.00000	1.43630e-30	1.000000
rad45	5.87338e-32	1.00000	5.87338e-32	1.000000
rad24	2.06677e-32	1.00000	2.06677e-32	1.000000
rad36	3.63976e-33	1.00000	3.63976e-33	1.000000
rad65	1.70795e-34	1.00000	1.70796e-34	1.000000
rad70	1.18251e-38	1.00000	1.18251e-38	1.000000
PhcycC3H3_A+H	5.35274e-39	1.00000	5.35275e-39	1.000000
rad55	2.86021e-39	1.00000	2.86021e-39	1.000000
rad58	1.90249e-42	1.00000	1.90250e-42	1.000000
PAH1+H	4.64353e-44	1.00000	4.64353e-44	1.000000
rad34	3.45432e-46	1.00000	3.45433e-46	1.000000
rad42	4.47797e-50	1.00000	4.47797e-50	1.000000
rad41	9.57164e-51	1.00000	9.57165e-51	1.000000
rad47	7.45865e-58	1.00000	7.45866e-58	1.000000

0.100000000E-07 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.982204	0.982204	0.982205	0.982205
C2H2+PhCH2	0.0105006	0.992705	0.0105006	0.992706
PhCCH+CH3	0.00347862	0.996183	0.00347862	0.996184
PhCHCCH2+H	0.00205094	0.998234	0.00205094	0.998235
PhCCCH3+H	0.00127864	0.999513	0.00127864	0.999514
Benzene+2-propynyl	0.000420064	0.999933	0.000420064	0.999934
Ph+MeAc	4.08463e-05	0.999974	4.08463e-05	0.999975
rad8	1.21641e-05	0.999986	1.21641e-05	0.999987
rad9	6.91729e-06	0.999993	6.91730e-06	0.999994
PAH7+H	4.22673e-06	0.999997	4.22673e-06	0.999998
Phenyl+Allene	9.95355e-07	0.999998	0.00000	0.999998
rad30	6.20990e-07	0.999999	6.20991e-07	0.999999
rad39	5.92508e-07	0.999999	5.92508e-07	0.999999
rad12	4.97452e-07	1.000000	4.97453e-07	1.000000
PAH9+H	1.32306e-07	1.00000	1.32306e-07	1.00000
rad15	1.20677e-07	1.00000	1.20678e-07	1.00000
rad35	6.65094e-08	1.00000	6.65095e-08	1.00000

rad38	3.53966e-08	1.00000	3.53967e-08	1.00000
PhCH2CCH+H	4.69873e-10	1.00000	4.69873e-10	1.00000
rad46	3.12071e-10	1.00000	3.12071e-10	1.00000
rad37	1.40301e-10	1.00000	1.40301e-10	1.00000
rad60syn	1.62207e-11	1.00000	1.62207e-11	1.00000
rad60anti	3.51574e-12	1.00000	3.51575e-12	1.00000
rad5	4.33873e-13	1.00000	4.33873e-13	1.00000
rad6	2.95512e-14	1.00000	2.95513e-14	1.00000
rad28	1.94125e-14	1.00000	1.94125e-14	1.00000
rad26	4.60882e-15	1.00000	4.60883e-15	1.00000
PAH3+H	1.44941e-16	1.00000	1.44941e-16	1.00000
rad59	6.43048e-17	1.00000	6.43048e-17	1.00000
rad2	6.34379e-17	1.00000	6.34380e-17	1.00000
rad50	7.56388e-18	1.00000	7.56389e-18	1.00000
rad1	4.11139e-18	1.00000	4.11139e-18	1.00000
rad10	3.29311e-18	1.00000	3.29311e-18	1.00000
rad7	2.15674e-18	1.00000	2.15674e-18	1.00000
rad14	8.65627e-19	1.00000	8.65628e-19	1.00000
rad3	7.48665e-19	1.00000	7.48666e-19	1.00000
rad11	5.43582e-19	1.00000	5.43582e-19	1.00000
rad25	4.38630e-19	1.00000	4.38630e-19	1.00000
rad4	3.80969e-19	1.00000	3.80969e-19	1.00000
rad27	5.24264e-20	1.00000	5.24264e-20	1.00000
rad19syn	2.03478e-20	1.00000	2.03479e-20	1.00000
rad13	1.20746e-20	1.00000	1.20746e-20	1.00000
rad33	3.82553e-23	1.00000	3.82554e-23	1.00000
rad54	1.78868e-23	1.00000	1.78868e-23	1.00000
PAH10+CH3	1.18111e-23	1.00000	1.18111e-23	1.00000
rad43	2.84069e-24	1.00000	2.84069e-24	1.00000
rad31	1.64986e-24	1.00000	1.64986e-24	1.00000
rad52	1.13261e-24	1.00000	1.13261e-24	1.00000
rad62	1.01744e-25	1.00000	1.01744e-25	1.00000
rad20	4.40859e-26	1.00000	4.40859e-26	1.00000
rad21	3.49293e-26	1.00000	3.49293e-26	1.00000
rad18	1.08505e-28	1.00000	1.08505e-28	1.00000
rad51	1.05156e-28	1.00000	1.05156e-28	1.00000
rad70	3.03478e-29	1.00000	3.03479e-29	1.00000
PhcycC3H3_A+H	1.82703e-29	1.00000	1.82703e-29	1.00000
rad55	1.01624e-29	1.00000	1.01625e-29	1.00000
rad22	7.09680e-30	1.00000	7.09681e-30	1.00000
rad23	6.96654e-30	1.00000	6.96655e-30	1.00000
rad45	8.55148e-32	1.00000	8.55149e-32	1.00000
rad65	3.61495e-32	1.00000	3.61495e-32	1.00000
rad24	2.12046e-32	1.00000	2.12047e-32	1.00000
rad58	8.74392e-33	1.00000	8.74393e-33	1.00000
rad36	5.29921e-33	1.00000	5.29922e-33	1.00000
PAH1+H	5.48719e-41	1.00000	5.48719e-41	1.00000
rad34	4.15176e-43	1.00000	4.15176e-43	1.00000
rad42	5.03722e-47	1.00000	5.03722e-47	1.00000
rad41	8.80851e-48	1.00000	8.80852e-48	1.00000
rad47	7.77706e-55	1.00000	7.77707e-55	1.00000

0.100000000E-07 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.33719e-19 (1.00)	1.33719e-19 (1.00)
Formation of rad11	1.26517e-19 (0.946)	1.26517e-19 (0.946)
Formation of rad6	7.08974e-21 (0.0530)	7.08973e-21 (0.0530)
H-abstraction	1.11864e-22 (0.000837)	1.11864e-22 (0.000837)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.980904	0.980904	0.980906	0.980906
C2H2+PhCH2	0.0109101	0.991814	0.0109102	0.991816
PhCCH+CH3	0.00373014	0.995544	0.00373014	0.995546
PhCHCCH2+H	0.00217634	0.997720	0.00217634	0.997722
PhCCCH3+H	0.00136409	0.999084	0.00136410	0.999086
Benzene+2-propynyl	0.000836559	0.999921	0.000836560	0.999923
Ph+MeAc	4.92740e-05	0.999970	4.92741e-05	0.999972
rad8	1.32492e-05	0.999983	1.32492e-05	0.999986
rad9	7.79231e-06	0.999991	7.79232e-06	0.999993
PAH7+H	4.80625e-06	0.999996	4.80626e-06	0.999998
Phenyl+Allene	1.38826e-06	0.999997	0.00000	0.999998
rad39	7.04672e-07	0.999998	7.04673e-07	0.999999
rad30	6.56263e-07	0.999999	6.56264e-07	1.000000
rad12	5.61298e-07	0.999999	5.61299e-07	1.000000
PAH9+H	1.41158e-07	0.999999	1.41158e-07	1.000000
rad15	1.29207e-07	1.000000	1.29207e-07	1.000000
rad35	7.04138e-08	1.000000	7.04139e-08	1.000000

rad38	3.80131e-08	1.000000	3.80131e-08	1.000000
PhCH2CCH+H	1.19679e-09	1.000000	1.19679e-09	1.000000
rad37	3.52437e-10	1.000000	3.52437e-10	1.000000
rad46	3.52310e-10	1.000000	3.52310e-10	1.000000
rad60syn	2.06767e-11	1.000000	2.06767e-11	1.000000
rad60anti	4.89746e-12	1.000000	4.89747e-12	1.000000
rad5	1.36589e-12	1.000000	1.36589e-12	1.000000
rad6	2.33542e-14	1.000000	2.33542e-14	1.000000
rad28	1.59439e-14	1.000000	1.59439e-14	1.000000
rad26	3.80160e-15	1.000000	3.80161e-15	1.000000
PAH3+H	5.97639e-16	1.000000	5.97640e-16	1.000000
rad59	2.54058e-16	1.000000	2.54059e-16	1.000000
rad2	5.94597e-17	1.000000	5.94598e-17	1.000000
rad50	2.77957e-17	1.000000	2.77958e-17	1.000000
rad1	3.87024e-18	1.000000	3.87025e-18	1.000000
rad10	3.38893e-18	1.000000	3.38893e-18	1.000000
rad7	1.70749e-18	1.000000	1.70749e-18	1.000000
rad3	7.75905e-19	1.000000	7.75907e-19	1.000000
rad14	7.28442e-19	1.000000	7.28443e-19	1.000000
rad11	4.31858e-19	1.000000	4.31859e-19	1.000000
rad4	3.95289e-19	1.000000	3.95290e-19	1.000000
rad25	3.71675e-19	1.000000	3.71675e-19	1.000000
rad19syn	3.10954e-19	1.000000	3.10954e-19	1.000000
rad27	4.48043e-20	1.000000	4.48044e-20	1.000000
rad13	9.57006e-21	1.000000	9.57008e-21	1.000000
rad54	4.59070e-22	1.000000	4.59071e-22	1.000000
PAH10+CH3	3.05745e-22	1.000000	3.05745e-22	1.000000
rad43	7.38552e-23	1.000000	7.38553e-23	1.000000
rad33	3.21440e-23	1.000000	3.21441e-23	1.000000
rad52	1.58221e-23	1.000000	1.58221e-23	1.000000
rad62	3.62270e-24	1.000000	3.62270e-24	1.000000
rad31	1.79709e-24	1.000000	1.79710e-24	1.000000
rad20	4.15980e-26	1.000000	4.15981e-26	1.000000
rad21	3.31014e-26	1.000000	3.31014e-26	1.000000
rad51	3.73373e-27	1.000000	3.73373e-27	1.000000
rad70	2.72512e-27	1.000000	2.72513e-27	1.000000
PhcycC3H3_A+H	2.14621e-27	1.000000	2.14621e-27	1.000000
rad55	9.74055e-28	1.000000	9.74056e-28	1.000000
rad18	9.93956e-29	1.000000	9.93957e-29	1.000000
rad23	8.09142e-30	1.000000	8.09143e-30	1.000000
rad22	6.36843e-30	1.000000	6.36844e-30	1.000000
rad65	2.45305e-30	1.000000	2.45306e-30	1.000000
rad58	1.13111e-30	1.000000	1.13111e-30	1.000000
rad45	9.85143e-32	1.000000	9.85144e-32	1.000000
rad24	2.20631e-32	1.000000	2.20631e-32	1.000000
rad36	6.10547e-33	1.000000	6.10548e-33	1.000000
PAH1+H	4.51063e-38	1.000000	4.51063e-38	1.000000
rad34	3.47429e-40	1.000000	3.47430e-40	1.000000
rad42	4.19204e-44	1.000000	4.19204e-44	1.000000
rad41	6.41181e-45	1.000000	6.41181e-45	1.000000
rad47	3.58533e-45	1.000000	3.58534e-45	1.000000

0.100000000E-07 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.59582e-19 (1.00)	3.59581e-19 (1.00)
Formation of rad11	2.35703e-19 (0.934)	3.35702e-19 (0.934)
Formation of rad6	2.33415e-20 (0.0649)	2.33414e-20 (0.0649)
H-abstraction	5.37685e-22 (0.00150)	5.37685e-22 (0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.979275	0.979275	0.979277	0.979277
C2H2+PhCH2	0.0113555	0.990631	0.0113556	0.990633
PhCCH+CH3	0.00400897	0.994640	0.00400898	0.994642
PhCHCCH2+H	0.00231397	0.996954	0.00231397	0.996956
Benzene+2-propynyl	0.00149531	0.998449	0.00149531	0.998451
PhCCCH3+H	0.00145799	0.999907	0.00145799	0.999909
Ph+MeAc	5.94561e-05	0.999967	5.94563e-05	0.999969
rad8	1.44645e-05	0.999981	1.44646e-05	0.999983
rad9	8.80722e-06	0.999990	8.80724e-06	0.999992
PAH7+H	5.48544e-06	0.999995	5.48545e-06	0.999998
Phenyl+Allene	1.91228e-06	0.999997	0.00000	0.999998
rad39	8.39698e-07	0.999998	8.39700e-07	0.999998
rad30	6.95392e-07	0.999999	6.95393e-07	0.999999
rad12	6.34637e-07	1.000000	6.34638e-07	1.000000
PAH9+H	1.51134e-07	1.000000	1.51134e-07	1.000000
rad15	1.38793e-07	1.000000	1.38793e-07	1.000000
rad35	7.47751e-08	1.000000	7.47752e-08	1.000000

rad38	4.09818e-08	1.000000	4.09818e-08	1.000000
PhCH2CCH+H	2.73838e-09	1.000000	2.73839e-09	1.000000
rad37	7.72170e-10	1.000000	7.72172e-10	1.000000
rad46	4.00203e-10	1.000000	4.00204e-10	1.000000
rad60syn	2.64002e-11	1.000000	2.64003e-11	1.000000
rad60anti	6.71540e-12	1.000000	6.71542e-12	1.000000
rad5	3.71121e-12	1.000000	3.71122e-12	1.000000
rad6	1.86401e-14	1.000000	1.86401e-14	1.000000
rad28	1.31497e-14	1.000000	1.31497e-14	1.000000
rad26	3.14780e-15	1.000000	3.14780e-15	1.000000
PAH3+H	2.04392e-15	1.000000	2.04392e-15	1.000000
rad59	8.33655e-16	1.000000	8.33656e-16	1.000000
rad50	8.70103e-17	1.000000	8.70104e-17	1.000000
rad2	7.36026e-17	1.000000	7.36028e-17	1.000000
rad1	4.81358e-18	1.000000	4.81359e-18	1.000000
rad10	3.37842e-18	1.000000	3.37843e-18	1.000000
rad19syn	3.22743e-18	1.000000	3.22744e-18	1.000000
rad7	1.36534e-18	1.000000	1.36534e-18	1.000000
rad3	1.00278e-18	1.000000	1.00278e-18	1.000000
rad14	6.15624e-19	1.000000	6.15625e-19	1.000000
rad4	5.11524e-19	1.000000	5.11525e-19	1.000000
rad11	3.46598e-19	1.000000	3.46599e-19	1.000000
rad25	3.16361e-19	1.000000	3.16362e-19	1.000000
rad27	3.84777e-20	1.000000	3.84778e-20	1.000000
rad13	7.66131e-21	1.000000	7.66133e-21	1.000000
rad54	7.40438e-21	1.000000	7.40439e-21	1.000000
PAH10+CH3	4.96809e-21	1.000000	4.96810e-21	1.000000
rad43	1.20454e-21	1.000000	1.20454e-21	1.000000
rad52	1.52549e-22	1.000000	1.52549e-22	1.000000
rad62	7.69039e-23	1.000000	7.69041e-23	1.000000
rad33	2.73744e-23	1.000000	2.73745e-23	1.000000
rad31	1.99938e-24	1.000000	1.99939e-24	1.000000
rad70	1.16345e-25	1.000000	1.16345e-25	1.000000
PhcycC3H3_A+H	1.06484e-25	1.000000	1.06485e-25	1.000000
rad51	7.94722e-26	1.000000	7.94724e-26	1.000000
rad55	4.37363e-26	1.000000	4.37364e-26	1.000000
rad20	3.95843e-26	1.000000	3.95844e-26	1.000000
rad21	3.16440e-26	1.000000	3.16441e-26	1.000000
PAH1+H	1.72869e-28	1.000000	1.72869e-28	1.000000
rad18	9.16445e-29	1.000000	9.16447e-29	1.000000
rad65	8.26211e-29	1.000000	8.26213e-29	1.000000
rad58	6.05541e-29	1.000000	6.05542e-29	1.000000
rad23	1.00038e-29	1.000000	1.00038e-29	1.000000
rad22	5.74605e-30	1.000000	5.74606e-30	1.000000
rad34	4.12810e-30	1.000000	4.12811e-30	1.000000
rad45	1.55507e-31	1.000000	1.55507e-31	1.000000
rad24	2.32519e-32	1.000000	2.32520e-32	1.000000
rad36	9.64154e-33	1.000000	9.64156e-33	1.000000
rad42	1.07647e-40	1.000000	1.07647e-40	1.000000
rad41	1.50183e-41	1.000000	1.50183e-41	1.000000
rad47	2.48364e-43	1.000000	2.48365e-43	1.000000

0.100000000E-07 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.51464e-19 (1.00)	8.51462e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83709e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56649e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.977259	0.977259	0.977261	0.977261
C2H2+PhCH2	0.0118380	0.989097	0.0118380	0.989099
PhCCH+CH3	0.00431648	0.993414	0.00431649	0.993416
PhCHCCH2+H	0.00246423	0.995878	0.00246424	0.995880
Benzene+2-propynyl	0.00245244	0.998331	0.00245245	0.998333
PhCCCH3+H	0.00156054	0.999891	0.00156054	0.999893
Ph+MeAc	7.16784e-05	0.999963	7.16785e-05	0.999965
rad8	1.58184e-05	0.999979	1.58185e-05	0.999981
rad9	9.98016e-06	0.999989	9.98016e-06	0.999991
PAH7+H	6.27902e-06	0.999995	6.27904e-06	0.999997
Phenyl+Allene	2.60485e-06	0.999997	0.00000	0.999997
rad39	1.00157e-06	0.999998	1.00157e-06	0.999998
rad30	7.38656e-07	0.999999	7.38658e-07	0.999999
rad12	7.18424e-07	1.000000	7.18426e-07	0.999999
PAH9+H	1.62354e-07	1.000000	1.62355e-07	1.000000
rad15	1.49537e-07	1.000000	1.49538e-07	1.000000
rad35	7.96336e-08	1.000000	7.96338e-08	1.000000

rad38	4.43439e-08	1.00000	4.43440e-08	1.000000
PhCH2CCH+H	5.75227e-09	1.00000	5.75229e-09	1.000000
rad37	1.51873e-09	1.00000	1.51873e-09	1.000000
rad46	4.57177e-10	1.00000	4.57179e-10	1.000000
rad60syn	3.37167e-11	1.00000	3.37168e-11	1.000000
rad60anti	9.09684e-12	1.00000	9.09686e-12	1.000000
rad5	8.96576e-12	1.00000	8.96578e-12	1.000000
rad6	1.49978e-14	1.00000	1.49978e-14	1.000000
rad28	1.08800e-14	1.00000	1.08800e-14	1.000000
PAH3+H	6.03133e-15	1.00000	6.03135e-15	1.000000
rad26	2.61411e-15	1.00000	2.61411e-15	1.000000
rad59	2.36429e-15	1.00000	2.36430e-15	1.000000
rad50	2.40153e-16	1.00000	2.40153e-16	1.000000
rad2	5.40216e-17	1.00000	5.40217e-17	1.000000
rad19syn	2.46149e-17	1.00000	2.46149e-17	1.000000
rad1	3.55113e-18	1.00000	3.55114e-18	1.000000
rad10	3.00032e-18	1.00000	3.00033e-18	1.000000
rad7	1.10064e-18	1.00000	1.10064e-18	1.000000
rad3	6.23723e-19	1.00000	6.23724e-19	1.000000
rad14	5.22067e-19	1.00000	5.22068e-19	1.000000
rad4	3.18612e-19	1.00000	3.18613e-19	1.000000
rad11	2.80499e-19	1.00000	2.80500e-19	1.000000
rad25	2.70267e-19	1.00000	2.70268e-19	1.000000
rad54	8.25298e-20	1.00000	8.25301e-20	1.000000
PAH10+CH3	5.57277e-20	1.00000	5.57279e-20	1.000000
rad27	3.31777e-20	1.00000	3.31778e-20	1.000000
rad43	1.35491e-20	1.00000	1.35491e-20	1.000000
rad13	6.18366e-21	1.00000	6.18367e-21	1.000000
rad52	1.09591e-21	1.00000	1.09591e-21	1.000000
rad62	1.08552e-21	1.00000	1.08552e-21	1.000000
rad33	2.35910e-23	1.00000	2.35910e-23	1.000000
rad70	2.82757e-24	1.00000	2.82758e-24	1.000000
PhcycC3H3_A+H	2.82696e-24	1.00000	2.82697e-24	1.000000
rad31	2.27072e-24	1.00000	2.27073e-24	1.000000
rad51	1.13153e-24	1.00000	1.13153e-24	1.000000
rad55	1.09836e-24	1.00000	1.09836e-24	1.000000
rad20	3.79544e-26	1.00000	3.79545e-26	1.000000
rad21	3.04889e-26	1.00000	3.04890e-26	1.000000
PAH1+H	8.47528e-27	1.00000	8.47531e-27	1.000000
rad65	1.71245e-27	1.00000	1.71245e-27	1.000000
rad58	1.68999e-27	1.00000	1.69000e-27	1.000000
rad34	2.52727e-28	1.00000	2.52727e-28	1.000000
rad18	8.49674e-29	1.00000	8.49676e-29	1.000000
rad23	1.31785e-29	1.00000	1.31785e-29	1.000000
rad22	5.20768e-30	1.00000	5.20769e-30	1.000000
rad42	7.85452e-31	1.00000	7.85454e-31	1.000000
rad45	2.13732e-31	1.00000	2.13732e-31	1.000000
rad41	1.60818e-31	1.00000	1.60819e-31	1.000000
rad24	2.47996e-32	1.00000	2.47996e-32	1.000000
rad36	1.32588e-32	1.00000	1.32588e-32	1.000000
rad47	7.59466e-42	1.00000	7.59468e-42	1.000000

0.100000000E-07 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.81800e-18 (1.00)	1.81799e-18 (1.00)
Formation of rad11	1.64862e-18 (0.907)	1.64862e-18 (0.907)
Formation of rad6	1.62558e-19 (0.0894)	1.62558e-19 (0.0894)
H-abstraction	6.82130e-21 (0.00375)	6.82130e-21 (0.00375)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.974807	0.974807	0.974810	0.974810
C2H2+PhCH2	0.0123589	0.987166	0.0123590	0.987169
PhCCH+CH3	0.00465408	0.991820	0.00465410	0.991823
Benzene+2-propynyl	0.00375209	0.995572	0.00375210	0.995575
PhCHCCH2+H	0.00262749	0.998199	0.00262750	0.998202
PhCCCH3+H	0.00167199	0.999871	0.00167199	0.999874
Ph+MeAc	8.62614e-05	0.999957	8.62617e-05	0.999961
rad8	1.73194e-05	0.999975	1.73195e-05	0.999978
rad9	1.13314e-05	0.999986	1.13315e-05	0.999989
PAH7+H	7.20395e-06	0.999993	7.20398e-06	0.999996
Phenyl+Allene	3.51289e-06	0.999997	0.00000	0.999996
rad39	1.19490e-06	0.999998	1.19491e-06	0.999998
rad12	8.13675e-07	0.999999	8.13678e-07	0.999998
rad30	7.86374e-07	1.000000	7.86377e-07	0.999999
PAH9+H	1.74956e-07	1.000000	1.74957e-07	0.999999
rad15	1.61556e-07	1.000000	1.61556e-07	1.000000
rad35	8.50365e-08	1.000000	8.50368e-08	1.000000

rad38	4.81471e-08	1.00000	4.81473e-08	1.000000
PhCH2CCH+H	1.12739e-08	1.00000	1.12740e-08	1.000000
rad37	2.73998e-09	1.00000	2.73999e-09	1.000000
rad46	5.24969e-10	1.00000	5.24970e-10	1.000000
rad60syn	4.30328e-11	1.00000	4.30329e-11	1.000000
rad5	1.96900e-11	1.00000	1.96900e-11	1.000000
rad60anti	1.22036e-11	1.00000	1.22036e-11	1.000000
PAH3+H	1.58160e-14	1.00000	1.58160e-14	1.000000
rad6	1.21478e-14	1.00000	1.21479e-14	1.000000
rad28	9.02414e-15	1.00000	9.02417e-15	1.000000
rad59	5.96957e-15	1.00000	5.96959e-15	1.000000
rad26	2.17584e-15	1.00000	2.17585e-15	1.000000
rad50	5.99513e-16	1.00000	5.99515e-16	1.000000
rad19syn	1.46314e-16	1.00000	1.46314e-16	1.000000
rad2	7.18884e-17	1.00000	7.18887e-17	1.000000
rad1	4.75233e-18	1.00000	4.75235e-18	1.000000
rad10	3.26720e-18	1.00000	3.26721e-18	1.000000
rad3	9.51186e-19	1.00000	9.51189e-19	1.000000
rad7	8.93255e-19	1.00000	8.93258e-19	1.000000
rad54	6.82323e-19	1.00000	6.82326e-19	1.000000
rad4	4.86637e-19	1.00000	4.86638e-19	1.000000
PAH10+CH3	4.63170e-19	1.00000	4.63171e-19	1.000000
rad14	4.43967e-19	1.00000	4.43969e-19	1.000000
rad25	2.31588e-19	1.00000	2.31589e-19	1.000000
rad11	2.28595e-19	1.00000	2.28596e-19	1.000000
rad43	1.12798e-19	1.00000	1.12798e-19	1.000000
rad27	2.87050e-20	1.00000	2.87051e-20	1.000000
rad62	1.10170e-20	1.00000	1.10170e-20	1.000000
rad52	6.21217e-21	1.00000	6.21220e-21	1.000000
rad13	5.02503e-21	1.00000	5.02504e-21	1.000000
PhcycC3H3_A+H	4.94897e-23	1.00000	4.94899e-23	1.000000
rad70	4.58079e-23	1.00000	4.58081e-23	1.000000
rad33	2.05496e-23	1.00000	2.05497e-23	1.000000
rad55	1.82891e-23	1.00000	1.82891e-23	1.000000
rad51	1.16593e-23	1.00000	1.16593e-23	1.000000
rad31	2.63163e-24	1.00000	2.63164e-24	1.000000
PAH1+H	2.26749e-25	1.00000	2.26750e-25	1.000000
rad20	3.66446e-26	1.00000	3.66447e-26	1.000000
rad58	3.08150e-26	1.00000	3.08151e-26	1.000000
rad21	2.95887e-26	1.00000	2.95888e-26	1.000000
rad65	2.43580e-26	1.00000	2.43581e-26	1.000000
rad34	7.87306e-27	1.00000	7.87309e-27	1.000000
rad18	7.91578e-29	1.00000	7.91581e-29	1.000000
rad42	4.07683e-29	1.00000	4.07685e-29	1.000000
rad23	1.84503e-29	1.00000	1.84504e-29	1.000000
rad41	9.77891e-30	1.00000	9.77894e-30	1.000000
rad22	4.73733e-30	1.00000	4.73735e-30	1.000000
rad45	3.57311e-31	1.00000	3.57312e-31	1.000000
rad24	2.67539e-32	1.00000	2.67540e-32	1.000000
rad36	2.21846e-32	1.00000	2.21847e-32	1.000000
rad47	1.41734e-40	1.00000	1.41734e-40	1.000000

0.100000000E-07 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.56414e-18 (1.00)	3.56412e-18 (1.00)
Formation of rad11	3.18264e-18 (0.893)	3.18262e-18 (0.893)
Formation of rad6	3.62173e-19 (0.102)	3.62171e-19 (0.102)
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.971885	0.971885	0.971890	0.971890
C2H2+PhCH2	0.0129199	0.984805	0.0129199	0.984810
Benzene+2-propynyl	0.00542285	0.990228	0.00542288	0.990233
PhCCH+CH3	0.00502328	0.995251	0.00502331	0.995256
PhCHCCH2+H	0.00280417	0.998055	0.00280419	0.998060
PhCCCH3+H	0.00179254	0.999848	0.00179254	0.999853
Ph+MeAc	0.000103562	0.999951	0.000103562	0.999956
rad8	1.89760e-05	0.999970	1.89761e-05	0.999975
rad9	1.28842e-05	0.999983	1.28841e-05	0.999988
PAH7+H	8.27969e-06	0.999991	8.27973e-06	0.999996
Phenyl+Allene	4.69493e-06	0.999996	0.00000	0.999996
rad39	1.42509e-06	0.999997	1.42509e-06	0.999998
rad12	9.21461e-07	0.999998	9.21466e-07	0.999999
rad30	8.38911e-07	0.999999	8.38915e-07	0.999999
PAH9+H	1.89102e-07	0.999999	1.89103e-07	1.000000
rad15	1.74977e-07	1.000000	1.74978e-07	1.000000
rad35	9.10383e-08	1.000000	9.10388e-08	1.000000

rad38	5.24472e-08	1.000000	5.24474e-08	1.000000
PhCH2CCH+H	2.08707e-08	1.000000	2.08708e-08	1.000000
rad37	4.60963e-09	1.000000	4.60965e-09	1.000000
rad46	6.05682e-10	1.000000	6.05684e-10	1.000000
rad60syn	5.48563e-11	1.000000	5.48566e-11	1.000000
rad5	3.99754e-11	1.000000	3.99756e-11	1.000000
rad60anti	1.62407e-11	1.000000	1.62407e-11	1.000000
PAH3+H	3.76908e-14	1.000000	3.76910e-14	1.000000
rad59	1.37229e-14	1.000000	1.37230e-14	1.000000
rad6	9.89436e-15	1.000000	9.89440e-15	1.000000
rad28	7.49904e-15	1.000000	7.49907e-15	1.000000
rad26	1.81420e-15	1.000000	1.81421e-15	1.000000
rad50	1.37985e-15	1.000000	1.37986e-15	1.000000
rad19syn	7.08949e-16	1.000000	7.08951e-16	1.000000
rad2	5.62473e-17	1.000000	5.62476e-17	1.000000
rad54	4.41606e-18	1.000000	4.41608e-18	1.000000
rad1	3.74071e-18	1.000000	3.74073e-18	1.000000
rad10	3.14611e-18	1.000000	3.14613e-18	1.000000
PAH10+CH3	3.01001e-18	1.000000	3.01003e-18	1.000000
rad43	7.33358e-19	1.000000	7.33362e-19	1.000000
rad7	7.29031e-19	1.000000	7.29035e-19	1.000000
rad3	6.68153e-19	1.000000	6.68157e-19	1.000000
rad14	3.78427e-19	1.000000	3.78429e-19	1.000000
rad4	3.42403e-19	1.000000	3.42405e-19	1.000000
rad25	1.98952e-19	1.000000	1.98953e-19	1.000000
rad11	1.87396e-19	1.000000	1.87397e-19	1.000000
rad62	8.52799e-20	1.000000	8.52803e-20	1.000000
rad52	2.90265e-20	1.000000	2.90266e-20	1.000000
rad27	2.49076e-20	1.000000	2.49077e-20	1.000000
rad13	4.10683e-21	1.000000	4.10685e-21	1.000000
PhcycC3H3_A+H	6.18576e-22	1.000000	6.18579e-22	1.000000
rad70	5.33446e-22	1.000000	5.33449e-22	1.000000
rad55	2.18165e-22	1.000000	2.18166e-22	1.000000
rad51	9.22228e-23	1.000000	9.22233e-23	1.000000
rad33	1.80778e-23	1.000000	1.80779e-23	1.000000
PAH1+H	3.94436e-24	1.000000	3.94438e-24	1.000000
rad31	3.11152e-24	1.000000	3.11154e-24	1.000000
rad58	3.99313e-25	1.000000	3.99315e-25	1.000000
rad65	2.54727e-25	1.000000	2.54729e-25	1.000000
rad34	1.50323e-25	1.000000	1.50324e-25	1.000000
rad20	3.56099e-26	1.000000	3.56101e-26	1.000000
rad21	2.89101e-26	1.000000	2.89102e-26	1.000000
rad42	1.01747e-27	1.000000	1.01748e-27	1.000000
rad41	2.58572e-28	1.000000	2.58573e-28	1.000000
rad18	7.40625e-29	1.000000	7.40629e-29	1.000000
rad23	2.73658e-29	1.000000	2.73660e-29	1.000000
rad22	4.32307e-30	1.000000	4.32309e-30	1.000000
rad45	4.83062e-31	1.000000	4.83064e-31	1.000000
rad36	3.00277e-32	1.000000	3.00279e-32	1.000000
rad24	2.91840e-32	1.000000	2.91842e-32	1.000000
rad47	1.82774e-39	1.000000	1.82775e-39	1.000000

0.100000000E-07 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.50681e-18 (1.00)	6.50677e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71911e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39008e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.968478	0.968478	0.968484	0.968484
C2H2+PhCH2	0.0135228	0.982001	0.0135229	0.982007
Benzene+2-propynyl	0.00747672	0.989478	0.00747676	0.989484
PhCCH+CH3	0.00542564	0.994904	0.00542567	0.994910
PhCHCCH2+H	0.00299468	0.997898	0.00299470	0.997904
PhCCCH3+H	0.00192236	0.999821	0.00192238	0.999827
Ph+MeAc	0.000123974	0.999945	0.000123974	0.999951
rad8	2.07972e-05	0.999965	2.07973e-05	0.999972
rad9	1.46640e-05	0.999980	1.46640e-05	0.999986
PAH7+H	9.52857e-06	0.999990	9.52863e-06	0.999996
Phenyl+Allene	6.22344e-06	0.999996	0.00000	0.999996
rad39	1.69835e-06	0.999998	1.69836e-06	0.999997
rad12	1.04290e-06	0.999999	1.04291e-06	0.999998
rad30	8.96680e-07	0.999999	8.96686e-07	0.999999
PAH9+H	2.04978e-07	1.000000	2.04979e-07	1.000000
rad15	1.89953e-07	1.000000	1.89954e-07	1.000000
rad35	9.77028e-08	1.000000	9.77034e-08	1.000000

rad38	5.73097e-08	1.00000	5.73100e-08	1.000000
PhCH2CCH+H	3.68401e-08	1.00000	3.68404e-08	1.000000
rad37	7.32439e-09	1.00000	7.32443e-09	1.000000
rad46	7.01869e-10	1.00000	7.01874e-10	1.000000
rad5	7.60089e-11	1.00000	7.60094e-11	1.000000
rad60syn	6.98192e-11	1.00000	6.98197e-11	1.000000
rad60anti	2.14666e-11	1.00000	2.14668e-11	1.000000
PAH3+H	8.30446e-14	1.00000	8.30452e-14	1.000000
rad59	2.92196e-14	1.00000	2.92198e-14	1.000000
rad6	8.09697e-15	1.00000	8.09702e-15	1.000000
rad28	6.24071e-15	1.00000	6.24075e-15	1.000000
rad50	2.97124e-15	1.00000	2.97126e-15	1.000000
rad19syn	2.89949e-15	1.00000	2.89950e-15	1.000000
rad26	1.51471e-15	1.00000	1.51471e-15	1.000000
rad2	9.56540e-17	1.00000	9.56546e-17	1.000000
rad54	2.33297e-17	1.00000	2.33298e-17	1.000000
PAH10+CH3	1.59467e-17	1.00000	1.59468e-17	1.000000
rad1	6.40370e-18	1.00000	6.40374e-18	1.000000
rad43	3.88182e-18	1.00000	3.88185e-18	1.000000
rad10	3.66007e-18	1.00000	3.66009e-18	1.000000
rad3	1.27776e-18	1.00000	1.27777e-18	1.000000
rad4	6.56013e-19	1.00000	6.56017e-19	1.000000
rad7	5.97852e-19	1.00000	5.97856e-19	1.000000
rad62	5.27068e-19	1.00000	5.27072e-19	1.000000
rad14	3.23191e-19	1.00000	3.23193e-19	1.000000
rad25	1.71291e-19	1.00000	1.71292e-19	1.000000
rad11	1.54405e-19	1.00000	1.54406e-19	1.000000
rad52	1.15650e-19	1.00000	1.15650e-19	1.000000
rad27	2.16679e-20	1.00000	2.16680e-20	1.000000
PhcycC3H3_A+H	5.85620e-21	1.00000	5.85623e-21	1.000000
rad70	4.72801e-21	1.00000	4.72804e-21	1.000000
rad13	3.37274e-21	1.00000	3.37276e-21	1.000000
rad55	1.97618e-21	1.00000	1.97620e-21	1.000000
rad51	5.86138e-22	1.00000	5.86142e-22	1.000000
PAH1+H	4.95211e-23	1.00000	4.95214e-23	1.000000
rad33	1.60510e-23	1.00000	1.60511e-23	1.000000
rad58	3.90830e-24	1.00000	3.90832e-24	1.000000
rad31	3.75275e-24	1.00000	3.75277e-24	1.000000
rad65	2.06558e-24	1.00000	2.06559e-24	1.000000
rad34	2.04058e-24	1.00000	2.04059e-24	1.000000
rad20	3.48188e-26	1.00000	3.48190e-26	1.000000
rad21	2.84307e-26	1.00000	2.84309e-26	1.000000
rad42	1.68941e-26	1.00000	1.68942e-26	1.000000
rad41	4.43576e-27	1.00000	4.43577e-27	1.000000
rad18	6.95655e-29	1.00000	6.95660e-29	1.000000
rad23	4.29466e-29	1.00000	4.29469e-29	1.000000
rad22	3.95578e-30	1.00000	3.95580e-30	1.000000
rad45	8.79731e-31	1.00000	8.79737e-31	1.000000
rad36	5.47639e-32	1.00000	5.47643e-32	1.000000
rad24	3.21845e-32	1.00000	3.21847e-32	1.000000
rad47	1.73400e-38	1.00000	1.73402e-38	1.000000

0.100000000E-07 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.11858e-17 (1.00)	1.11857e-17 (1.00)
Formation of rad11	9.67466e-18 (0.865)	9.67458e-18 (0.865)
Formation of rad6	1.40029e-18 (0.125)	1.40028e-18 (0.125)
H-abstraction	1.10851e-19 (0.00991)	1.10851e-19 (0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.964584	0.964584	0.964592	0.964592
C2H2+PhCH2	0.0141703	0.978755	0.0141705	0.978763
Benzene+2-propynyl	0.00990995	0.988665	0.00991003	0.988673
PhCCH+CH3	0.00586272	0.994527	0.00586277	0.994535
PhCHCCH2+H	0.00319945	0.997727	0.00319948	0.997735
PhCCCH3+H	0.00206165	0.999788	0.00206166	0.999797
Ph+MeAc	0.000147924	0.999936	0.000147925	0.999945
rad8	2.27917e-05	0.999959	2.27919e-05	0.999967
rad9	1.66999e-05	0.999976	1.67000e-05	0.999984
PAH7+H	1.09761e-05	0.999987	1.09762e-05	0.999995
Phenyl+Allene	8.18761e-06	0.999995	0.00000	0.999995
rad39	2.02183e-06	0.999997	2.02185e-06	0.999997
rad12	1.17916e-06	0.999998	1.17917e-06	0.999998
rad30	9.60154e-07	0.999999	9.60162e-07	0.999999
PAH9+H	2.22800e-07	0.999999	2.22802e-07	0.999999
rad15	2.06653e-07	1.000000	2.06655e-07	1.000000
rad35	1.05103e-07	1.000000	1.05104e-07	1.000000

rad38	6.28101e-08	1.000000	6.28107e-08	1.000000
PhCH2CCH+H	6.24645e-08	1.000000	6.24650e-08	1.000000
rad37	1.11023e-08	1.000000	1.11024e-08	1.000000
rad46	8.16620e-10	1.000000	8.16627e-10	1.000000
rad5	1.36733e-10	1.000000	1.36734e-10	1.000000
rad60syn	8.87049e-11	1.000000	8.87056e-11	1.000000
rad60anti	2.82057e-11	1.000000	2.82059e-11	1.000000
PAH3+H	1.71452e-13	1.000000	1.71454e-13	1.000000
rad59	5.84005e-14	1.000000	5.84010e-14	1.000000
rad19syn	1.02878e-14	1.000000	1.02879e-14	1.000000
rad6	6.65277e-15	1.000000	6.65283e-15	1.000000
rad50	6.05358e-15	1.000000	6.05363e-15	1.000000
rad28	5.19923e-15	1.000000	5.19928e-15	1.000000
rad26	1.26595e-15	1.000000	1.26596e-15	1.000000
rad54	1.03970e-16	1.000000	1.03971e-16	1.000000
PAH10+CH3	7.11676e-17	1.000000	7.11681e-17	1.000000
rad2	7.04215e-17	1.000000	7.04220e-17	1.000000
rad43	1.72857e-17	1.000000	1.72859e-17	1.000000
rad1	4.74845e-18	1.000000	4.74849e-18	1.000000
rad10	3.80905e-18	1.000000	3.80908e-18	1.000000
rad62	2.69622e-18	1.000000	2.69624e-18	1.000000
rad3	6.66960e-19	1.000000	6.66965e-19	1.000000
rad7	4.92285e-19	1.000000	4.92290e-19	1.000000
rad52	4.03514e-19	1.000000	4.03517e-19	1.000000
rad4	3.43104e-19	1.000000	3.43106e-19	1.000000
rad14	2.76482e-19	1.000000	2.76485e-19	1.000000
rad25	1.47760e-19	1.000000	1.47761e-19	1.000000
rad11	1.27785e-19	1.000000	1.27786e-19	1.000000
PhcycC3H3_A+H	4.38895e-20	1.000000	4.38899e-20	1.000000
rad70	3.33202e-20	1.000000	3.33205e-20	1.000000
rad27	1.88926e-20	1.000000	1.88928e-20	1.000000
rad55	1.42084e-20	1.000000	1.42085e-20	1.000000
rad51	3.10227e-21	1.000000	3.10230e-21	1.000000
rad13	2.78145e-21	1.000000	2.78147e-21	1.000000
PAH1+H	4.73309e-22	1.000000	4.73313e-22	1.000000
rad58	3.02074e-23	1.000000	3.02077e-23	1.000000
rad34	2.08650e-23	1.000000	2.08652e-23	1.000000
rad33	1.43767e-23	1.000000	1.43769e-23	1.000000
rad65	1.35334e-23	1.000000	1.35335e-23	1.000000
rad31	4.61620e-24	1.000000	4.61623e-24	1.000000
rad42	2.03932e-25	1.000000	2.03933e-25	1.000000
rad41	5.49126e-26	1.000000	5.49130e-26	1.000000
rad20	3.42493e-26	1.000000	3.42496e-26	1.000000
rad21	2.81361e-26	1.000000	2.81363e-26	1.000000
rad23	7.10236e-29	1.000000	7.10242e-29	1.000000
rad18	6.55770e-29	1.000000	6.55775e-29	1.000000
rad22	3.62834e-30	1.000000	3.62837e-30	1.000000
rad45	1.52562e-30	1.000000	1.52563e-30	1.000000
rad36	9.51346e-32	1.000000	9.51354e-32	1.000000
rad24	3.58820e-32	1.000000	3.58822e-32	1.000000
rad47	1.27121e-37	1.000000	1.27122e-37	1.000000

0.100000000E-07 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.82690e-17 (1.00)	1.82688e-17 (1.00)
Formation of rad11	1.55456e-17 (0.851)	1.55454e-17 (0.851)
Formation of rad6	2.49126e-18 (0.136)	2.49124e-18 (0.136)
H-abstraction	2.32112e-19 (0.0127)	2.32112e-19 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.960215	0.960215	0.960226	0.960226
C2H2+PhCH2	0.0148649	0.975080	0.0148651	0.975091
Benzene+2-propynyl	0.0127053	0.987785	0.0127054	0.987796
PhCCH+CH3	0.00633614	0.994122	0.00633621	0.994133
PhCHCCH2+H	0.00341889	0.997540	0.00341892	0.997552
PhCCCH3+H	0.00221052	0.999751	0.00221055	0.999762
Ph+MeAc	0.000175875	0.999927	0.000175877	0.999938
rad8	2.49677e-05	0.999952	2.49680e-05	0.999963
rad9	1.90241e-05	0.999971	1.90243e-05	0.999982
PAH7+H	1.26513e-05	0.999983	1.26514e-05	0.999995
Phenyl+Allene	1.06964e-05	0.999994	0.00000	0.999995
rad39	2.40374e-06	0.999997	2.40377e-06	0.999997
rad12	1.33139e-06	0.999998	1.33140e-06	0.999998
rad30	1.02986e-06	0.999999	1.02987e-06	0.999999
PAH9+H	2.42819e-07	0.999999	2.42822e-07	1.000000
rad15	2.25265e-07	0.999999	2.25268e-07	1.000000
rad35	1.13322e-07	1.000000	1.13323e-07	1.000000

PhCH2CCH+H	1.02329e-07	1.000000	1.02331e-07	1.00000
rad38	6.90362e-08	1.000000	6.90370e-08	1.00000
rad37	1.61821e-08	1.000000	1.61823e-08	1.00000
rad46	9.53657e-10	1.000000	9.53666e-10	1.00000
rad5	2.34596e-10	1.000000	2.34599e-10	1.00000
rad60syn	1.12479e-10	1.000000	1.12480e-10	1.00000
rad60anti	3.68627e-11	1.000000	3.68631e-11	1.00000
PAH3+H	3.35192e-13	1.000000	3.35196e-13	1.00000
rad59	1.10713e-13	1.000000	1.10714e-13	1.00000
rad19syn	3.23698e-14	1.000000	3.23702e-14	1.00000
rad50	1.17726e-14	1.000000	1.17728e-14	1.00000
rad6	5.48520e-15	1.000000	5.48526e-15	1.00000
rad28	4.33514e-15	1.000000	4.33519e-15	1.00000
rad26	1.05886e-15	1.000000	1.05887e-15	1.00000
rad54	4.01275e-16	1.000000	4.01279e-16	1.00000
PAH10+CH3	2.74628e-16	1.000000	2.74631e-16	1.00000
rad43	6.64690e-17	1.000000	6.64697e-17	1.00000
rad2	4.33097e-17	1.000000	4.33100e-17	1.00000
rad62	1.17482e-17	1.000000	1.17484e-17	1.00000
rad10	3.43489e-18	1.000000	3.43493e-18	1.00000
rad1	2.94305e-18	1.000000	2.94309e-18	1.00000
rad3	1.64408e-18	1.000000	1.64409e-18	1.00000
rad52	1.25934e-18	1.000000	1.25935e-18	1.00000
rad4	8.47633e-19	1.000000	8.47643e-19	1.00000
rad7	4.06799e-19	1.000000	4.06803e-19	1.00000
PhcycC3H3_A+H	2.69648e-19	1.000000	2.69650e-19	1.00000
rad14	2.36871e-19	1.000000	2.36874e-19	1.00000
rad70	1.93309e-19	1.000000	1.93311e-19	1.00000
rad25	1.27682e-19	1.000000	1.27684e-19	1.00000
rad11	1.06169e-19	1.000000	1.06170e-19	1.00000
rad55	8.39747e-20	1.000000	8.39757e-20	1.00000
rad27	1.65074e-20	1.000000	1.65076e-20	1.00000
rad51	1.40662e-20	1.000000	1.40663e-20	1.00000
PAH1+H	3.58741e-21	1.000000	3.58745e-21	1.00000
rad13	2.30216e-21	1.000000	2.30219e-21	1.00000
rad58	1.90959e-22	1.000000	1.90961e-22	1.00000
rad34	1.67728e-22	1.000000	1.67730e-22	1.00000
rad65	7.40125e-23	1.000000	7.40132e-23	1.00000
rad33	1.29860e-23	1.000000	1.29862e-23	1.00000
rad31	5.79023e-24	1.000000	5.79029e-24	1.00000
rad42	1.88860e-24	1.000000	1.88862e-24	1.00000
rad41	5.19580e-25	1.000000	5.19585e-25	1.00000
rad20	3.38872e-26	1.000000	3.38876e-26	1.00000
rad21	2.80178e-26	1.000000	2.80181e-26	1.00000
rad23	1.23989e-28	1.000000	1.23990e-28	1.00000
rad18	6.20268e-29	1.000000	6.20275e-29	1.00000
rad22	3.33512e-30	1.000000	3.33516e-30	1.00000
rad45	1.99171e-30	1.000000	1.99173e-30	1.00000
rad36	1.24476e-31	1.000000	1.24477e-31	1.00000
rad24	4.04447e-32	1.000000	4.04451e-32	1.00000
rad47	7.49047e-37	1.000000	7.49055e-37	1.00000

0.100000000E-07 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.85520e-17 (1.00)	2.85516e-17 (1.00)
Formation of rad11	2.39009e-17 (0.837)	2.39006e-17 (0.837)
Formation of rad6	4.19900e-18 (0.147)	4.19894e-18 (0.147)
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.955393	0.955393	0.955407	0.955407
Benzene+2-propynyl	0.0158346	0.971228	0.0158348	0.971242
C2H2+PhCH2	0.0156097	0.986838	0.0156098	0.986852
PhCCH+CH3	0.00684745	0.993685	0.00684755	0.993699
PhCHCCH2+H	0.00365340	0.997338	0.00365345	0.997353
PhCCCH3+H	0.00236906	0.999707	0.00236909	0.999722
Ph+MeAc	0.000208314	0.999916	0.000208317	0.999930
rad8	2.73332e-05	0.999943	2.73336e-05	0.999957
rad9	2.16716e-05	0.999965	2.16719e-05	0.999979
PAH7+H	1.45867e-05	0.999979	1.45869e-05	0.999994
Phenyl+Allene	1.38822e-05	0.999993	0.00000	0.999994
rad39	2.85335e-06	0.999996	2.85340e-06	0.999996
rad12	1.50074e-06	0.999998	1.50076e-06	0.999998
rad30	1.10636e-06	0.999999	1.10637e-06	0.999999
PAH9+H	2.65319e-07	0.999999	2.65323e-07	0.999999
rad15	2.46003e-07	0.999999	2.46007e-07	1.000000
PhCH2CCH+H	1.62721e-07	0.999999	1.62723e-07	1.000000

rad35	1.22453e-07	1.000000	1.22455e-07	1.000000
rad38	7.60883e-08	1.000000	7.60893e-08	1.000000
rad37	2.28238e-08	1.000000	2.28241e-08	1.000000
rad46	1.11744e-09	1.000000	1.11746e-09	1.000000
rad5	3.86380e-10	1.000000	3.86385e-10	1.000000
rad60syn	1.42324e-10	1.000000	1.42326e-10	1.000000
rad60anti	4.79399e-11	1.000000	4.79406e-11	1.000000
PAH3+H	6.25713e-13	1.000000	6.25721e-13	1.000000
rad59	2.00722e-13	1.000000	2.00725e-13	1.000000
rad19syn	9.19288e-14	1.000000	9.19301e-14	1.000000
rad50	2.20051e-14	1.000000	2.20053e-14	1.000000
rad6	4.53659e-15	1.000000	4.53665e-15	1.000000
rad28	3.61688e-15	1.000000	3.61693e-15	1.000000
rad54	1.36990e-15	1.000000	1.36992e-15	1.000000
PAH10+CH3	9.35816e-16	1.000000	9.35829e-16	1.000000
rad26	8.86176e-16	1.000000	8.86188e-16	1.000000
rad43	2.25414e-16	1.000000	2.25418e-16	1.000000
rad2	1.05361e-16	1.000000	1.05363e-16	1.000000
rad62	4.46231e-17	1.000000	4.46238e-17	1.000000
rad1	7.22049e-18	1.000000	7.22059e-18	1.000000
rad10	4.10939e-18	1.000000	4.10945e-18	1.000000
rad52	3.57588e-18	1.000000	3.57592e-18	1.000000
rad3	1.57528e-18	1.000000	1.57530e-18	1.000000
PhcycC3H3_A+H	1.39649e-18	1.000000	1.39651e-18	1.000000
rad70	9.49279e-19	1.000000	9.49292e-19	1.000000
rad4	8.14097e-19	1.000000	8.14108e-19	1.000000
rad55	4.19552e-19	1.000000	4.19557e-19	1.000000
rad7	3.37225e-19	1.000000	3.37230e-19	1.000000
rad14	2.03203e-19	1.000000	2.03206e-19	1.000000
rad25	1.10508e-19	1.000000	1.10509e-19	1.000000
rad11	8.85237e-20	1.000000	8.85249e-20	1.000000
rad51	5.58854e-20	1.000000	5.58862e-20	1.000000
PAH1+H	2.22717e-20	1.000000	2.22720e-20	1.000000
rad27	1.44515e-20	1.000000	1.44517e-20	1.000000
rad13	1.91170e-21	1.000000	1.91173e-21	1.000000
rad34	1.09606e-21	1.000000	1.09606e-21	1.000000
rad58	1.01534e-21	1.000000	1.01536e-21	1.000000
rad65	3.46717e-22	1.000000	3.46721e-22	1.000000
rad42	1.39290e-23	1.000000	1.39292e-23	1.000000
rad33	1.18262e-23	1.000000	1.18264e-23	1.000000
rad31	7.40414e-24	1.000000	7.40425e-24	1.000000
rad41	3.90335e-24	1.000000	3.90341e-24	1.000000
rad20	3.37250e-26	1.000000	3.37255e-26	1.000000
rad21	2.80733e-26	1.000000	2.80737e-26	1.000000
rad23	2.28430e-28	1.000000	2.28434e-28	1.000000
rad18	5.88589e-29	1.000000	5.88598e-29	1.000000
rad45	5.21091e-30	1.000000	5.21099e-30	1.000000
rad22	3.07161e-30	1.000000	3.07165e-30	1.000000
rad36	3.26507e-31	1.000000	3.26512e-31	1.000000
rad24	4.60966e-32	1.000000	4.60972e-32	1.000000
rad47	3.66234e-36	1.000000	3.66239e-36	1.000000

0.100000000E-07 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.29529e-17 (1.00)	4.29521e-17 (1.00)
Formation of rad11	3.53712e-17 (0.823)	3.53705e-17 (0.823)
Formation of rad6	6.75433e-18 (0.157)	6.75421e-18 (0.157)
H-abstraction	8.27372e-19 (0.0193)	8.27372e-19 (0.0193)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.950149	0.950149	0.950166	0.950166
Benzene+2-propynyl	0.0192623	0.969412	0.0192627	0.969428
C2H2+PhCH2	0.0164075	0.985819	0.0164078	0.985836
PhCCH+CH3	0.00739809	0.993217	0.00739822	0.993235
PhCHCCH2+H	0.00390332	0.997121	0.00390338	0.997138
PhCCCH3+H	0.00253726	0.999658	0.00253729	0.999675
Ph+MeAc	0.000245755	0.999904	0.000245759	0.999921
rad8	2.98950e-05	0.999934	2.98956e-05	0.999951
rad9	2.46815e-05	0.999958	2.46820e-05	0.999976
Phenyl+Allene	1.79044e-05	0.999976	0.00000	0.999976
PAH7+H	1.68192e-05	0.999993	1.68195e-05	0.999992
rad39	3.38120e-06	0.999996	3.38126e-06	0.999996
rad12	1.68834e-06	0.999998	1.68838e-06	0.999997
rad30	1.19029e-06	0.999999	1.19031e-06	0.999999
PAH9+H	2.90623e-07	1.000000	2.90628e-07	0.999999
rad15	2.69099e-07	1.000000	2.69104e-07	0.999999
PhCH2CCH+H	2.52107e-07	1.00000	2.52111e-07	0.999999

rad35	1.32604e-07	1.00000	1.32605e-07	1.000000
rad38	8.40808e-08	1.00000	8.40823e-08	1.000000
rad37	3.13100e-08	1.00000	3.13105e-08	1.000000
rad46	1.31334e-09	1.00000	1.31335e-09	1.000000
rad5	6.14093e-10	1.00000	6.14103e-10	1.000000
rad60syn	1.79683e-10	1.00000	1.79687e-10	1.000000
rad60anti	6.20569e-11	1.00000	6.20579e-11	1.000000
PAH3+H	1.12269e-12	1.00000	1.12271e-12	1.000000
rad59	3.50301e-13	1.00000	3.50307e-13	1.000000
rad19syn	2.39064e-13	1.00000	2.39067e-13	1.000000
rad50	3.97497e-14	1.00000	3.97504e-14	1.000000
rad54	4.20837e-15	1.00000	4.20844e-15	1.000000
rad6	3.76226e-15	1.00000	3.76232e-15	1.000000
rad28	3.01897e-15	1.00000	3.01901e-15	1.000000
PAH10+CH3	2.86444e-15	1.00000	2.86449e-15	1.000000
rad26	7.41975e-16	1.00000	7.41989e-16	1.000000
rad43	6.85854e-16	1.00000	6.85867e-16	1.000000
rad62	1.50549e-16	1.00000	1.50552e-16	1.000000
rad2	7.04302e-17	1.00000	7.04315e-17	1.000000
rad52	9.36563e-18	1.00000	9.36581e-18	1.000000
PhcycC3H3_A+H	6.23506e-18	1.00000	6.23517e-18	1.000000
rad1	4.87104e-18	1.00000	4.87113e-18	1.000000
rad70	4.03527e-18	1.00000	4.03535e-18	1.000000
rad10	3.90284e-18	1.00000	3.90291e-18	1.000000
rad55	1.81229e-18	1.00000	1.81231e-18	1.000000
rad3	8.81290e-19	1.00000	8.81305e-19	1.000000
rad4	4.56625e-19	1.00000	4.56633e-19	1.000000
rad7	2.80334e-19	1.00000	2.80339e-19	1.000000
rad51	1.98110e-19	1.00000	1.98114e-19	1.000000
rad14	1.74533e-19	1.00000	1.74536e-19	1.000000
PAH1+H	1.16260e-19	1.00000	1.16262e-19	1.000000
rad25	9.57867e-20	1.00000	9.57884e-20	1.000000
rad11	7.40502e-20	1.00000	7.40516e-20	1.000000
rad27	1.26753e-20	1.00000	1.26755e-20	1.000000
rad34	5.98216e-21	1.00000	5.98226e-21	1.000000
rad58	4.64426e-21	1.00000	4.64435e-21	1.000000
rad13	1.59207e-21	1.00000	1.59210e-21	1.000000
rad65	1.42039e-21	1.00000	1.42042e-21	1.000000
rad42	8.43153e-23	1.00000	8.43168e-23	1.000000
rad41	2.40058e-23	1.00000	2.40063e-23	1.000000
rad33	1.08566e-23	1.00000	1.08568e-23	1.000000
rad31	9.64828e-24	1.00000	9.64845e-24	1.000000
rad20	3.37603e-26	1.00000	3.37609e-26	1.000000
rad21	2.83047e-26	1.00000	2.83052e-26	1.000000
rad23	4.42801e-28	1.00000	4.42809e-28	1.000000
rad18	5.60286e-29	1.00000	5.60296e-29	1.000000
rad45	8.73841e-30	1.00000	8.73858e-30	1.000000
rad22	2.83410e-30	1.00000	2.83414e-30	1.000000
rad36	5.49182e-31	1.00000	5.49191e-31	1.000000
rad24	5.31364e-32	1.00000	5.31373e-32	1.000000
rad47	1.52506e-35	1.00000	1.52509e-35	1.000000

0.100000000E-07 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.25016e-17 (1.00)	6.25002e-17 (1.00)
Formation of rad11	5.06355e-17 (0.810)	5.06343e-17 (0.810)
Formation of rad6	1.04318e-17 (0.167)	1.04316e-17 (0.167)
H-abstraction	1.43428e-18 (0.0229)	1.43428e-18 (0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.944516	0.944516	0.944538	0.944538
Benzene+2-propynyl	0.0229478	0.967464	0.0229483	0.967487
C2H2+PhCH2	0.0172621	0.984726	0.0172625	0.984749
PhCCH+CH3	0.00798938	0.992716	0.00798957	0.992739
PhCHCCH2+H	0.00416893	0.996885	0.00416902	0.996908
PhCCCH3+H	0.00271503	0.999600	0.00271509	0.999623
Ph+MeAc	0.000288724	0.999888	0.000288730	0.999912
rad8	3.26590e-05	0.999921	3.26598e-05	0.999944
rad9	2.80960e-05	0.999949	2.80967e-05	0.999972
Phenyl+Allene	2.29542e-05	0.999972	0.00000	0.999972
PAH7+H	1.93897e-05	0.999991	1.93902e-05	0.999992
rad39	3.99906e-06	0.999995	3.99916e-06	0.999996
rad12	1.89524e-06	0.999997	1.89528e-06	0.999998
rad30	1.28233e-06	0.999999	1.28236e-06	0.999999
PhCH2CCH+H	3.81725e-07	0.999999	3.81734e-07	0.999999
PAH9+H	3.19094e-07	0.999999	3.19100e-07	1.000000
rad15	2.94806e-07	1.000000	2.94813e-07	1.000000

rad35	1.43889e-07	1.000000	1.43892e-07	1.000000
rad38	9.31440e-08	1.000000	9.31461e-08	1.000000
rad37	4.19469e-08	1.000000	4.19480e-08	1.000000
rad46	1.54769e-09	1.000000	1.54773e-09	1.000000
rad5	9.45893e-10	1.000000	9.45914e-10	1.000000
rad60syn	2.26302e-10	1.000000	2.26308e-10	1.000000
rad60anti	7.99729e-11	1.000000	7.99747e-11	1.000000
PAH3+H	1.94646e-12	1.000000	1.94651e-12	1.000000
rad59	5.91559e-13	1.000000	5.91574e-13	1.000000
rad19syn	5.76047e-13	1.000000	5.76061e-13	1.000000
rad50	6.96960e-14	1.000000	6.96976e-14	1.000000
rad54	1.17979e-14	1.000000	1.17982e-14	1.000000
PAH10+CH3	7.98676e-15	1.000000	7.98694e-15	1.000000
rad6	3.12811e-15	1.000000	3.12819e-15	1.000000
rad28	2.52070e-15	1.000000	2.52075e-15	1.000000
rad43	1.89885e-15	1.000000	1.89890e-15	1.000000
rad26	6.21443e-16	1.000000	6.21458e-16	1.000000
rad62	4.58150e-16	1.000000	4.58160e-16	1.000000
rad2	8.57354e-17	1.000000	8.57374e-17	1.000000
PhcycC3H3_A+H	2.44417e-17	1.000000	2.44422e-17	1.000000
rad52	2.28788e-17	1.000000	2.28794e-17	1.000000
rad70	1.51220e-17	1.000000	1.51224e-17	1.000000
rad55	6.89280e-18	1.000000	6.89295e-18	1.000000
rad1	5.98802e-18	1.000000	5.98815e-18	1.000000
rad10	4.59216e-18	1.000000	4.59226e-18	1.000000
rad3	9.93203e-19	1.000000	9.93232e-19	1.000000
rad51	6.35771e-19	1.000000	6.35785e-19	1.000000
PAH1+H	5.21365e-19	1.000000	5.21377e-19	1.000000
rad4	5.16062e-19	1.000000	5.16074e-19	1.000000
rad7	2.33658e-19	1.000000	2.33663e-19	1.000000
rad14	1.50080e-19	1.000000	1.50083e-19	1.000000
rad25	8.31462e-20	1.000000	8.31481e-20	1.000000
rad11	6.21359e-20	1.000000	6.21374e-20	1.000000
rad34	2.78859e-20	1.000000	2.78866e-20	1.000000
rad58	1.86124e-20	1.000000	1.86127e-20	1.000000
rad27	1.11377e-20	1.000000	1.11380e-20	1.000000
rad65	5.17416e-21	1.000000	5.17428e-21	1.000000
rad13	1.32954e-21	1.000000	1.32957e-21	1.000000
rad42	4.29489e-22	1.000000	4.29498e-22	1.000000
rad41	1.23970e-22	1.000000	1.23973e-22	1.000000
rad31	1.28055e-23	1.000000	1.28058e-23	1.000000
rad33	1.00455e-23	1.000000	1.00458e-23	1.000000
rad20	3.39962e-26	1.000000	3.39970e-26	1.000000
rad21	2.87187e-26	1.000000	2.87194e-26	1.000000
rad23	9.06275e-28	1.000000	9.06296e-28	1.000000
rad18	5.34995e-29	1.000000	5.35007e-29	1.000000
rad45	1.74938e-29	1.000000	1.74943e-29	1.000000
rad22	2.61960e-30	1.000000	2.61966e-30	1.000000
rad36	1.10327e-30	1.000000	1.10329e-30	1.000000
rad24	6.19653e-32	1.000000	6.19668e-32	1.000000
rad47	5.52650e-35	1.000000	5.52662e-35	1.000000

0.100000000E-07 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83247e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04056e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55476e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.938534	0.938534	0.938561	0.938561
Benzene+2-propynyl	0.0268483	0.965382	0.0268490	0.965410
C2H2+PhCH2	0.0181765	0.983559	0.0181771	0.983587
PhCCH+CH3	0.00862246	0.992181	0.00862271	0.992210
PhCHCCH2+H	0.00445043	0.996631	0.00445055	0.996661
PhCCCH3+H	0.00290220	0.999534	0.00290229	0.999563
Ph+MeAc	0.000337758	0.999871	0.000337767	0.999901
rad8	3.56294e-05	0.999907	3.56305e-05	0.999936
rad9	3.19609e-05	0.999939	3.19619e-05	0.999968
Phenyl+Allene	2.92583e-05	0.999968	0.000000	0.999968
PAH7+H	2.23438e-05	0.999991	2.23444e-05	0.999991
rad39	4.72011e-06	0.999995	4.72025e-06	0.999995
rad12	2.12238e-06	0.999997	2.12244e-06	0.999998
rad30	1.38320e-06	0.999999	1.38325e-06	0.999999
PhCH2CCH+H	5.66275e-07	0.999999	5.66292e-07	0.999999
PAH9+H	3.51138e-07	1.000000	3.51148e-07	1.000000
rad15	3.23402e-07	1.000000	3.23411e-07	1.000000

rad35	1.56441e-07	1.00000	1.56445e-07	1.00000
rad38	1.03425e-07	1.00000	1.03428e-07	1.00000
rad37	5.50656e-08	1.00000	5.50672e-08	1.00000
rad46	1.82809e-09	1.00000	1.82814e-09	1.00000
rad5	1.41703e-09	1.00000	1.41707e-09	1.00000
rad60syn	2.84283e-10	1.00000	2.84290e-10	1.00000
rad60anti	1.02613e-10	1.00000	1.02616e-10	1.00000
PAH3+H	3.27490e-12	1.00000	3.27499e-12	1.00000
rad19syn	1.29873e-12	1.00000	1.29877e-12	1.00000
rad59	9.70705e-13	1.00000	9.70734e-13	1.00000
rad50	1.19032e-13	1.00000	1.19036e-13	1.00000
rad54	3.05322e-14	1.00000	3.05331e-14	1.00000
PAH10+CH3	2.05205e-14	1.00000	2.05210e-14	1.00000
rad43	4.83974e-15	1.00000	4.83988e-15	1.00000
rad6	2.60712e-15	1.00000	2.60720e-15	1.00000
rad28	2.10514e-15	1.00000	2.10521e-15	1.00000
rad62	1.27363e-15	1.00000	1.27367e-15	1.00000
rad26	5.20620e-16	1.00000	5.20635e-16	1.00000
rad2	1.55531e-16	1.00000	1.55536e-16	1.00000
PhcycC3H3_A+H	8.53911e-17	1.00000	8.53936e-17	1.00000
rad52	5.25993e-17	1.00000	5.26010e-17	1.00000
rad70	5.07092e-17	1.00000	5.07107e-17	1.00000
rad55	2.34300e-17	1.00000	2.34307e-17	1.00000
rad1	1.09807e-17	1.00000	1.09810e-17	1.00000
rad10	5.45337e-18	1.00000	5.45353e-18	1.00000
rad3	2.15146e-18	1.00000	2.15153e-18	1.00000
PAH1+H	2.04480e-18	1.00000	2.04486e-18	1.00000
rad51	1.86868e-18	1.00000	1.86873e-18	1.00000
rad4	1.12132e-18	1.00000	1.12135e-18	1.00000
rad7	1.95238e-19	1.00000	1.95243e-19	1.00000
rad14	1.29198e-19	1.00000	1.29201e-19	1.00000
rad34	1.13110e-19	1.00000	1.13113e-19	1.00000
rad25	7.22761e-20	1.00000	7.22782e-20	1.00000
rad58	6.63439e-20	1.00000	6.63458e-20	1.00000
rad11	5.22947e-20	1.00000	5.22963e-20	1.00000
rad65	1.69869e-20	1.00000	1.69874e-20	1.00000
rad27	9.80431e-21	1.00000	9.80459e-21	1.00000
rad42	1.87991e-21	1.00000	1.87996e-21	1.00000
rad13	1.11320e-21	1.00000	1.11324e-21	1.00000
rad41	5.49128e-22	1.00000	5.49144e-22	1.00000
rad31	1.72989e-23	1.00000	1.72995e-23	1.00000
rad33	9.36811e-24	1.00000	9.36839e-24	1.00000
rad20	3.44407e-26	1.00000	3.44417e-26	1.00000
rad21	2.93274e-26	1.00000	2.93283e-26	1.00000
rad23	1.95234e-27	1.00000	1.95239e-27	1.00000
rad18	5.12420e-29	1.00000	5.12434e-29	1.00000
rad45	3.66596e-29	1.00000	3.66607e-29	1.00000
rad22	2.42570e-30	1.00000	2.42576e-30	1.00000
rad36	2.32099e-30	1.00000	2.32105e-30	1.00000
rad24	7.31272e-32	1.00000	7.31293e-32	1.00000
rad47	1.77440e-34	1.00000	1.77444e-34	1.00000

0.100000000E-07 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.21641e-16 (1.00)	1.21637e-16 (1.00)
Formation of rad11	9.54219e-17 (0.784)	9.54182e-17 (0.784)
Formation of rad6	2.24583e-17 (0.185)	2.24574e-17 (0.185)
H-abstraction	3.76121e-18 (0.0309)	3.76121e-18 (0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.932238	0.932238	0.932272	0.932272
Benzene+2-propynyl	0.0309205	0.963159	0.0309216	0.963193
C2H2+PhCH2	0.0191545	0.982313	0.0191553	0.982349
PhCCH+CH3	0.00929822	0.991611	0.00929857	0.991647
PhCHCCH2+H	0.00474792	0.996359	0.00474810	0.996395
PhCCCH3+H	0.00309848	0.999458	0.00309859	0.999494
Ph+MeAc	0.000393391	0.999851	0.000393405	0.999887
rad8	3.88088e-05	0.999890	3.88103e-05	0.999926
Phenyl+Allene	3.70855e-05	0.999927	0.00000	0.999926
rad9	3.63257e-05	0.999963	3.63271e-05	0.999963
PAH7+H	2.57317e-05	0.999989	2.57326e-05	0.999988
rad39	5.55894e-06	0.999995	5.55915e-06	0.999994
rad12	2.37060e-06	0.999997	2.37069e-06	0.999996
rad30	1.49367e-06	0.999998	1.49373e-06	0.999998
PhCH2CCH+H	8.24734e-07	0.999999	8.24764e-07	0.999998
PAH9+H	3.87213e-07	1.000000	3.87227e-07	0.999999
rad15	3.55187e-07	1.000000	3.55200e-07	0.999999

rad35	1.70400e-07	1.00000	1.70407e-07	0.999999
rad38	1.15089e-07	1.00000	1.15094e-07	1.000000
rad37	7.10212e-08	1.00000	7.10239e-08	1.000000
rad46	2.16348e-09	1.00000	2.16356e-09	1.000000
rad5	2.07075e-09	1.00000	2.07082e-09	1.000000
rad60syn	3.56139e-10	1.00000	3.56152e-10	1.000000
rad60anti	1.31096e-10	1.00000	1.31101e-10	1.000000
PAH3+H	5.36551e-12	1.00000	5.36572e-12	1.000000
rad19syn	2.76179e-12	1.00000	2.76189e-12	1.000000
rad59	1.55301e-12	1.00000	1.55307e-12	1.000000
rad50	1.98576e-13	1.00000	1.98584e-13	1.000000
rad54	7.36305e-14	1.00000	7.36332e-14	1.000000
PAH10+CH3	4.90484e-14	1.00000	4.90502e-14	1.000000
rad43	1.14663e-14	1.00000	1.14667e-14	1.000000
rad62	3.26830e-15	1.00000	3.26842e-15	1.000000
rad6	2.17814e-15	1.00000	2.17822e-15	1.000000
rad28	1.75838e-15	1.00000	1.75844e-15	1.000000
rad26	4.36238e-16	1.00000	4.36254e-16	1.000000
PhcycC3H3_A+H	2.69203e-16	1.00000	2.69212e-16	1.000000
rad2	1.94788e-16	1.00000	1.94794e-16	1.000000
rad70	1.54047e-16	1.00000	1.54052e-16	1.000000
rad52	1.14634e-16	1.00000	1.14638e-16	1.000000
rad55	7.20614e-17	1.00000	7.20642e-17	1.000000
rad1	1.39104e-17	1.00000	1.39108e-17	1.000000
PAH1+H	7.11981e-18	1.00000	7.12007e-18	1.000000
rad10	6.92601e-18	1.00000	6.92626e-18	1.000000
rad51	5.07774e-18	1.00000	5.07794e-18	1.000000
rad3	2.53124e-18	1.00000	2.53133e-18	1.000000
rad4	1.32360e-18	1.00000	1.32364e-18	1.000000
rad34	4.05530e-19	1.00000	4.05545e-19	1.000000
rad58	2.12987e-19	1.00000	2.12995e-19	1.000000
rad7	1.63542e-19	1.00000	1.63548e-19	1.000000
rad14	1.11343e-19	1.00000	1.11347e-19	1.000000
rad25	6.29164e-20	1.00000	6.29188e-20	1.000000
rad65	5.08172e-20	1.00000	5.08191e-20	1.000000
rad11	4.41454e-20	1.00000	4.41470e-20	1.000000
rad27	8.64623e-21	1.00000	8.64655e-21	1.000000
rad42	7.19654e-21	1.00000	7.19681e-21	1.000000
rad41	2.12408e-21	1.00000	2.12415e-21	1.000000
rad13	9.34506e-22	1.00000	9.34540e-22	1.000000
rad31	2.37649e-23	1.00000	2.37658e-23	1.000000
rad33	8.80493e-24	1.00000	8.80525e-24	1.000000
rad20	3.51070e-26	1.00000	3.51084e-26	1.000000
rad21	3.01480e-26	1.00000	3.01491e-26	1.000000
rad23	4.43756e-27	1.00000	4.43773e-27	1.000000
rad45	1.36411e-28	1.00000	1.36415e-28	1.000000
rad18	4.92318e-29	1.00000	4.92335e-29	1.000000
rad36	8.67495e-30	1.00000	8.67527e-30	1.000000
rad22	2.25054e-30	1.00000	2.25063e-30	1.000000
rad24	8.73651e-32	1.00000	8.73684e-32	1.000000
rad47	5.12438e-34	1.00000	5.12457e-34	1.000000

0.100000000E-07 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.63720e-16 (1.00)	1.63713e-16 (1.00)
Formation of rad11	1.26419e-16 (0.772)	1.26412e-16 (0.772)
Formation of rad6	3.15515e-17 (0.193)	3.15499e-17 (0.193)
H-abstraction	5.75028e-18 (0.0351)	5.75028e-18 (0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.925667	0.925667	0.925710	0.925710
Benzene+2-propynyl	0.0351226	0.960789	0.0351242	0.960834
C2H2+PhCH2	0.0201996	0.980989	0.0202005	0.981034
PhCCH+CH3	0.0100174	0.991006	0.0100178	0.991052
PhCHCCH2+H	0.00506142	0.996068	0.00506165	0.996114
PhCCCH3+H	0.00330346	0.999371	0.00330362	0.999417
Ph+MeAc	0.000456149	0.999827	0.000456170	0.999874
Phenyl+Allene	4.67508e-05	0.999874	0.00000	0.999874
rad8	4.21981e-05	0.999916	4.22001e-05	0.999916
rad9	4.12432e-05	0.999958	4.12452e-05	0.999957
PAH7+H	2.96088e-05	0.999987	2.96102e-05	0.999987
rad39	6.53167e-06	0.999994	6.53198e-06	0.999993
rad12	2.64057e-06	0.999996	2.64070e-06	0.999996
rad30	1.61455e-06	0.999998	1.61462e-06	0.999997
PhCH2CCH+H	1.18129e-06	0.999999	1.18135e-06	0.999999
PAH9+H	4.27826e-07	1.000000	4.27846e-07	0.999999
rad15	3.90482e-07	1.000000	3.90501e-07	0.999999

rad35	1.85925e-07	1.00000	1.85933e-07	1.000000
rad38	1.28323e-07	1.00000	1.28328e-07	1.000000
rad37	9.01921e-08	1.00000	9.01963e-08	1.000000
rad5	2.95913e-09	1.00000	2.95927e-09	1.000000
rad46	2.56443e-09	1.00000	2.56455e-09	1.000000
rad60syn	4.44859e-10	1.00000	4.44880e-10	1.000000
rad60anti	1.66767e-10	1.00000	1.66774e-10	1.000000
PAH3+H	8.58431e-12	1.00000	8.58471e-12	1.000000
rad19syn	5.57650e-12	1.00000	5.57676e-12	1.000000
rad59	2.42911e-12	1.00000	2.42922e-12	1.000000
rad50	3.24314e-13	1.00000	3.24329e-13	1.000000
rad54	1.66745e-13	1.00000	1.66753e-13	1.000000
PAH10+CH3	1.09928e-13	1.00000	1.09934e-13	1.000000
rad43	2.54567e-14	1.00000	2.54579e-14	1.000000
rad62	7.80914e-15	1.00000	7.80950e-15	1.000000
rad6	1.82402e-15	1.00000	1.82411e-15	1.000000
rad28	1.46890e-15	1.00000	1.46897e-15	1.000000
PhcycC3H3_A+H	7.73853e-16	1.00000	7.73889e-16	1.000000
rad70	4.28321e-16	1.00000	4.28340e-16	1.000000
rad26	3.65590e-16	1.00000	3.65608e-16	1.000000
rad52	2.38196e-16	1.00000	2.38208e-16	1.000000
rad55	2.02608e-16	1.00000	2.02617e-16	1.000000
rad2	1.36219e-16	1.00000	1.36226e-16	1.000000
PAH1+H	2.22906e-17	1.00000	2.22916e-17	1.000000
rad51	1.28526e-17	1.00000	1.28531e-17	1.000000
rad1	9.84947e-18	1.00000	9.84993e-18	1.000000
rad10	7.17562e-18	1.00000	7.17595e-18	1.000000
rad3	1.75241e-18	1.00000	1.75249e-18	1.000000
rad34	1.30240e-18	1.00000	1.30246e-18	1.000000
rad4	9.19639e-19	1.00000	9.19682e-19	1.000000
rad58	6.22358e-19	1.00000	6.22387e-19	1.000000
rad65	1.39790e-19	1.00000	1.39797e-19	1.000000
rad7	1.37326e-19	1.00000	1.37333e-19	1.000000
rad14	9.60643e-20	1.00000	9.60688e-20	1.000000
rad25	5.48483e-20	1.00000	5.48509e-20	1.000000
rad11	3.73783e-20	1.00000	3.73801e-20	1.000000
rad42	2.44584e-20	1.00000	2.44595e-20	1.000000
rad27	7.63908e-21	1.00000	7.63943e-21	1.000000
rad41	7.28487e-21	1.00000	7.28522e-21	1.000000
rad13	7.86522e-22	1.00000	7.86559e-22	1.000000
rad31	3.31650e-23	1.00000	3.31665e-23	1.000000
rad33	8.34030e-24	1.00000	8.34070e-24	1.000000
rad20	3.60141e-26	1.00000	3.60158e-26	1.000000
rad21	3.12035e-26	1.00000	3.12050e-26	1.000000
rad23	1.05452e-26	1.00000	1.05458e-26	1.000000
rad45	3.98357e-28	1.00000	3.98376e-28	1.000000
rad18	4.74490e-29	1.00000	4.74512e-29	1.000000
rad36	2.54602e-29	1.00000	2.54614e-29	1.000000
rad22	2.09303e-30	1.00000	2.09312e-30	1.000000
rad24	1.05705e-31	1.00000	1.05711e-31	1.000000
rad47	1.34824e-33	1.00000	1.34831e-33	1.000000

0.100000000E-07 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.15887e-16 (1.00)	2.15874e-16 (1.00)
Formation of rad11	1.64133e-16 (0.760)	1.64123e-16 (0.760)
Formation of rad6	4.32452e-17 (0.200)	4.32425e-17 (0.200)
H-abstraction	8.50919e-18 (0.0394)	8.50919e-18 (0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.918855	0.918855	0.918909	0.918909
Benzene+2-propynyl	0.0394150	0.958270	0.0394174	0.958326
C2H2+PhCH2	0.0213152	0.979585	0.0213165	0.979643
PhCCH+CH3	0.0107802	0.990366	0.0107808	0.990423
PhCHCCH2+H	0.00539083	0.995756	0.00539115	0.995815
PhCCCH3+H	0.00351663	0.999273	0.00351684	0.999331
Ph+MeAc	0.000526535	0.999800	0.000526566	0.999858
Phenyl+Allene	5.86216e-05	0.999858	0.00000	0.999858
rad9	4.67702e-05	0.999905	4.67730e-05	0.999905
rad8	4.57958e-05	0.999951	4.57985e-05	0.999951
PAH7+H	3.40355e-05	0.999985	3.40375e-05	0.999985
rad39	7.65595e-06	0.999993	7.65640e-06	0.999992
rad12	2.93281e-06	0.999995	2.93298e-06	0.999995
rad30	1.74667e-06	0.999997	1.74677e-06	0.999997
PhCH2CCH+H	1.66642e-06	0.999999	1.66651e-06	0.999999
PAH9+H	4.73537e-07	0.999999	4.73564e-07	0.999999
rad15	4.29630e-07	1.000000	4.29655e-07	0.999999

rad35	2.03185e-07	1.000000	2.03197e-07	1.000000
rad38	1.43333e-07	1.000000	1.43341e-07	1.000000
rad37	1.12977e-07	1.000000	1.12984e-07	1.000000
rad5	4.14381e-09	1.000000	4.14405e-09	1.000000
rad46	3.04334e-09	1.000000	3.04352e-09	1.000000
rad60syn	5.53971e-10	1.000000	5.54004e-10	1.000000
rad60anti	2.11229e-10	1.000000	2.11241e-10	1.000000
PAH3+H	1.34418e-11	1.000000	1.34427e-11	1.000000
rad19syn	1.07500e-11	1.000000	1.07506e-11	1.000000
rad59	3.72270e-12	1.000000	3.72291e-12	1.000000
rad50	5.19450e-13	1.000000	5.19480e-13	1.000000
rad54	3.56851e-13	1.000000	3.56872e-13	1.000000
PAH10+CH3	2.32537e-13	1.000000	2.32551e-13	1.000000
rad43	5.33186e-14	1.000000	5.33218e-14	1.000000
rad62	1.74991e-14	1.000000	1.75001e-14	1.000000
PhcycC3H3_A+H	2.04647e-15	1.000000	2.04659e-15	1.000000
rad6	1.53182e-15	1.000000	1.53191e-15	1.000000
rad28	1.22718e-15	1.000000	1.22725e-15	1.000000
rad70	1.09950e-15	1.000000	1.09956e-15	1.000000
rad55	5.25298e-16	1.000000	5.25328e-16	1.000000
rad52	4.74038e-16	1.000000	4.74066e-16	1.000000
rad26	3.06429e-16	1.000000	3.06446e-16	1.000000
rad2	1.96879e-16	1.000000	1.96891e-16	1.000000
PAH1+H	6.34376e-17	1.000000	6.34413e-17	1.000000
rad51	3.04907e-17	1.000000	3.04924e-17	1.000000
rad1	1.44253e-17	1.000000	1.44261e-17	1.000000
rad10	9.68135e-18	1.000000	9.68190e-18	1.000000
rad34	3.78996e-18	1.000000	3.79019e-18	1.000000
rad58	1.67024e-18	1.000000	1.67033e-18	1.000000
rad3	1.38818e-18	1.000000	1.38826e-18	1.000000
rad4	7.31327e-19	1.000000	7.31369e-19	1.000000
rad65	3.56318e-19	1.000000	3.56339e-19	1.000000
rad7	1.15651e-19	1.000000	1.15657e-19	1.000000
rad14	8.29779e-20	1.000000	8.29828e-20	1.000000
rad42	7.47520e-20	1.000000	7.47564e-20	1.000000
rad25	4.78865e-20	1.000000	4.78893e-20	1.000000
rad11	3.17591e-20	1.000000	3.17609e-20	1.000000
rad41	2.24435e-20	1.000000	2.24449e-20	1.000000
rad27	6.76215e-21	1.000000	6.76255e-21	1.000000
rad13	6.64015e-22	1.000000	6.64055e-22	1.000000
rad31	4.69574e-23	1.000000	4.69601e-23	1.000000
rad33	7.96260e-24	1.000000	7.96307e-24	1.000000
rad20	3.71875e-26	1.000000	3.71897e-26	1.000000
rad21	3.25244e-26	1.000000	3.25264e-26	1.000000
rad23	2.61630e-26	1.000000	2.61645e-26	1.000000
rad45	1.04477e-27	1.000000	1.04484e-27	1.000000
rad36	6.71701e-29	1.000000	6.71739e-29	1.000000
rad18	4.58775e-29	1.000000	4.58802e-29	1.000000
rad22	1.95320e-30	1.000000	1.95331e-30	1.000000
rad24	1.29579e-31	1.000000	1.29587e-31	1.000000
rad47	3.26704e-33	1.000000	3.26723e-33	1.000000

0.100000000E-07 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.79491e-16 (1.00)	2.79471e-16 (1.00)
Formation of rad11	2.09281e-16 (0.749)	2.09265e-16 (0.749)
Formation of rad6	5.79792e-17 (0.207)	5.79748e-17 (0.207)
H-abstraction	1.22310e-17 (0.0438)	1.22310e-17 (0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.911836	0.911836	0.911902	0.911902
Benzene+2-propynyl	0.0437616	0.955597	0.0437648	0.955667
C2H2+PhCH2	0.0225048	0.978102	0.0225064	0.978173
PhCCH+CH3	0.0115868	0.989689	0.0115877	0.989761
PhCHCCH2+H	0.00573598	0.995425	0.00573640	0.995498
PhCCCH3+H	0.00373734	0.999162	0.00373762	0.999235
Ph+MeAc	0.000605024	0.999767	0.000605068	0.999840
Phenyl+Allene	7.31232e-05	0.999840	0.000000	0.999840
rad9	5.29668e-05	0.999893	5.29707e-05	0.999893
rad8	4.95985e-05	0.999943	4.96021e-05	0.999943
PAH7+H	3.90776e-05	0.999982	3.90805e-05	0.999982
rad39	8.95101e-06	0.999991	8.95166e-06	0.999991
rad12	3.24761e-06	0.999994	3.24784e-06	0.999994
PhCH2CCH+H	2.31799e-06	0.999996	2.31816e-06	0.999996
rad30	1.89092e-06	0.999998	1.89106e-06	0.999998
PAH9+H	5.24965e-07	0.999999	5.25004e-07	0.999999
rad15	4.72995e-07	0.999999	4.73029e-07	0.999999

rad35	2.22365e-07	0.999999	2.22381e-07	0.999999
rad38	1.60350e-07	1.000000	1.60362e-07	1.000000
rad37	1.39791e-07	1.000000	1.39802e-07	1.000000
rad5	5.69647e-09	1.000000	5.69689e-09	1.000000
rad46	3.61467e-09	1.000000	3.61493e-09	1.000000
rad60syn	6.87607e-10	1.000000	6.87657e-10	1.000000
rad60anti	2.66381e-10	1.000000	2.66401e-10	1.000000
PAH3+H	2.06375e-11	1.000000	2.06390e-11	1.000000
rad19syn	1.98736e-11	1.000000	1.98751e-11	1.000000
rad59	5.59978e-12	1.000000	5.60018e-12	1.000000
rad50	8.17024e-13	1.000000	8.17085e-13	1.000000
rad54	7.25446e-13	1.000000	7.25499e-13	1.000000
PAH10+CH3	4.66810e-13	1.000000	4.66845e-13	1.000000
rad43	1.05951e-13	1.000000	1.05959e-13	1.000000
rad62	3.69972e-14	1.000000	3.69999e-14	1.000000
PhcycC3H3_A+H	5.01695e-15	1.000000	5.01732e-15	1.000000
rad70	2.62501e-15	1.000000	2.62520e-15	1.000000
rad6	1.29013e-15	1.000000	1.29023e-15	1.000000
rad55	1.26527e-15	1.000000	1.26537e-15	1.000000
rad28	1.02532e-15	1.000000	1.02539e-15	1.000000
rad52	9.06731e-16	1.000000	9.06798e-16	1.000000
rad26	2.56876e-16	1.000000	2.56895e-16	1.000000
rad2	2.02248e-16	1.000000	2.02263e-16	1.000000
PAH1+H	1.65665e-16	1.000000	1.65678e-16	1.000000
rad51	6.81450e-17	1.000000	6.81499e-17	1.000000
rad1	1.50345e-17	1.000000	1.50356e-17	1.000000
rad10	1.04427e-17	1.000000	1.04435e-17	1.000000
rad34	1.00923e-17	1.000000	1.00931e-17	1.000000
rad58	4.14902e-18	1.000000	4.14932e-18	1.000000
rad3	2.06868e-18	1.000000	2.06883e-18	1.000000
rad4	1.09445e-18	1.000000	1.09454e-18	1.000000
rad65	8.47088e-19	1.000000	8.47150e-19	1.000000
rad42	2.07735e-19	1.000000	2.07750e-19	1.000000
rad7	9.76855e-20	1.000000	9.76928e-20	1.000000
rad14	7.17608e-20	1.000000	7.17661e-20	1.000000
rad41	6.28127e-20	1.000000	6.28173e-20	1.000000
rad25	4.18738e-20	1.000000	4.18769e-20	1.000000
rad11	2.70807e-20	1.000000	2.70826e-20	1.000000
rad27	5.99780e-21	1.000000	5.99822e-21	1.000000
rad13	5.62354e-22	1.000000	5.62395e-22	1.000000
rad31	6.73552e-23	1.000000	6.73602e-23	1.000000
rad33	7.66195e-24	1.000000	7.66250e-24	1.000000
rad23	6.76662e-26	1.000000	6.76711e-26	1.000000
rad20	3.86602e-26	1.000000	3.86631e-26	1.000000
rad21	3.41497e-26	1.000000	3.41521e-26	1.000000
rad45	2.05408e-27	1.000000	2.05422e-27	1.000000
rad36	1.32887e-28	1.000000	1.32898e-28	1.000000
rad18	4.45041e-29	1.000000	4.45074e-29	1.000000
rad22	1.83338e-30	1.000000	1.83350e-30	1.000000
rad24	1.61008e-31	1.000000	1.61019e-31	1.000000
rad47	7.35922e-33	1.000000	7.35976e-33	1.000000

0.100000000E-07 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.55893e-16 (1.00)	3.55861e-16 (1.00)
Formation of rad11	2.62555e-16 (0.738)	2.62530e-16 (0.738)
Formation of rad6	7.62093e-17 (0.214)	7.62020e-17 (0.214)
H-abstraction	1.71289e-17 (0.0481)	1.71289e-17 (0.0481)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.904639	0.904639	0.904720	0.904720
Benzene+2-propynyl	0.0481294	0.952768	0.0481337	0.952854
C2H2+PhCH2	0.0237715	0.976540	0.0237736	0.976628
PhCCH+CH3	0.0124370	0.988977	0.0124382	0.989066
PhCHCCH2+H	0.00609654	0.995073	0.00609709	0.995163
PhCCCH3+H	0.00396486	0.999038	0.00396522	0.999128
Ph+MeAc	0.000692046	0.999730	0.000692109	0.999820
Phenyl+Allene	9.07433e-05	0.999821	0.000000	0.999820
rad9	5.98965e-05	0.999881	5.99019e-05	0.999880
rad8	5.36003e-05	0.999934	5.36052e-05	0.999934
PAH7+H	4.48061e-05	0.999979	4.48102e-05	0.999979
rad39	1.04376e-05	0.999990	1.04385e-05	0.999989
rad12	3.58505e-06	0.999993	3.58538e-06	0.999993
PhCH2CCH+H	3.18249e-06	0.999996	3.18278e-06	0.999996
rad30	2.04822e-06	0.999999	2.04840e-06	0.999998
PAH9+H	5.82790e-07	0.999999	5.82843e-07	0.999998
rad15	5.20962e-07	1.000000	5.21009e-07	0.999999

rad35	2.43665e-07	1.000000	2.43686e-07	0.999999
rad38	1.79629e-07	1.000000	1.79646e-07	0.999999
rad37	1.71060e-07	1.000000	1.71075e-07	1.000000
rad5	7.69913e-09	1.000000	7.69983e-09	1.000000
rad46	4.29520e-09	1.000000	4.29559e-09	1.000000
rad60syn	8.50568e-10	1.000000	8.50645e-10	1.000000
rad60anti	3.34454e-10	1.000000	3.34484e-10	1.000000
rad19syn	3.53639e-11	1.000000	3.53671e-11	1.000000
PAH3+H	3.11103e-11	1.000000	3.11131e-11	1.000000
rad59	8.27909e-12	1.000000	8.27984e-12	1.000000
rad54	1.40689e-12	1.000000	1.40702e-12	1.000000
rad50	1.26312e-12	1.000000	1.26324e-12	1.000000
PAH10+CH3	8.93383e-13	1.000000	8.93464e-13	1.000000
rad43	2.00697e-13	1.000000	2.00715e-13	1.000000
rad62	7.41772e-14	1.000000	7.41839e-14	1.000000
PhcycC3H3_A+H	1.14777e-14	1.000000	1.14787e-14	1.000000
rad70	5.86613e-15	1.000000	5.86667e-15	1.000000
rad55	2.84964e-15	1.000000	2.84991e-15	1.000000
rad52	1.67153e-15	1.000000	1.67169e-15	1.000000
rad6	1.09060e-15	1.000000	1.09070e-15	1.000000
rad28	8.56724e-16	1.000000	8.56801e-16	1.000000
PAH1+H	4.00257e-16	1.000000	4.00293e-16	1.000000
rad26	2.15371e-16	1.000000	2.15391e-16	1.000000
rad2	1.50321e-16	1.000000	1.50335e-16	1.000000
rad51	1.44108e-16	1.000000	1.44120e-16	1.000000
rad34	2.48053e-17	1.000000	2.48074e-17	1.000000
rad10	1.15545e-17	1.000000	1.15555e-17	1.000000
rad1	1.13471e-17	1.000000	1.13481e-17	1.000000
rad58	9.60514e-18	1.000000	9.60604e-18	1.000000
rad3	2.79383e-18	1.000000	2.79408e-18	1.000000
rad65	1.88893e-18	1.000000	1.88910e-18	1.000000
rad4	1.48477e-18	1.000000	1.48490e-18	1.000000
rad42	5.29961e-19	1.000000	5.30009e-19	1.000000
rad41	1.61253e-19	1.000000	1.61268e-19	1.000000
rad7	8.28239e-20	1.000000	8.28314e-20	1.000000
rad14	6.21393e-20	1.000000	6.21449e-20	1.000000
rad25	3.66764e-20	1.000000	3.66798e-20	1.000000
rad11	2.31909e-20	1.000000	2.31930e-20	1.000000
rad27	5.33088e-21	1.000000	5.33137e-21	1.000000
rad13	4.78155e-22	1.000000	4.78199e-22	1.000000
rad31	9.77162e-23	1.000000	9.77253e-23	1.000000
rad33	7.43155e-24	1.000000	7.43222e-24	1.000000
rad23	1.80911e-25	1.000000	1.80927e-25	1.000000
rad20	4.04745e-26	1.000000	4.04781e-26	1.000000
rad21	3.61286e-26	1.000000	3.61319e-26	1.000000
rad45	7.18420e-27	1.000000	7.18485e-27	1.000000
rad36	4.67922e-28	1.000000	4.67965e-28	1.000000
rad18	4.33186e-29	1.000000	4.33225e-29	1.000000
rad22	1.74087e-30	1.000000	1.74103e-30	1.000000
rad24	2.02870e-31	1.000000	2.02889e-31	1.000000
rad47	1.55335e-32	1.000000	1.55349e-32	1.000000

0.100000000E-07 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.34395e-16 (1.00)	6.34337e-16 (1.00)
Formation of rad11	4.51153e-16 (0.711)	4.51110e-16 (0.711)
Formation of rad6	1.51589e-16 (0.239)	1.51574e-16 (0.239)
H-abstraction	3.16530e-17 (0.0499)	3.16530e-17 (0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891220	0.891220	0.891301	0.891301
Benzene+2-propynyl	0.0498949	0.941114	0.0498994	0.941200
C2H2+PhCH2	0.0319123	0.973027	0.0319153	0.973115
PhCCH+CH3	0.0149062	0.987933	0.0149076	0.988023
PhCHCCH2+H	0.00657748	0.994510	0.00657808	0.994601
PhCCCH3+H	0.00446904	0.998979	0.00446944	0.999071
Ph+MeAc	0.000840208	0.999820	0.000840285	0.999911
Phenyl+Allene	9.13505e-05	0.999911	0.000000	0.999911
PAH7+H	6.60543e-05	0.999977	6.60603e-05	0.999977
rad39	1.31473e-05	0.999990	1.31484e-05	0.999990
PhCH2CCH+H	5.22128e-06	0.999995	5.22175e-06	0.999995
rad30	2.21236e-06	0.999998	2.21257e-06	0.999997
PAH9+H	8.00108e-07	0.999998	8.00181e-07	0.999998
rad19anti	7.04525e-07	0.999999	7.04590e-07	0.999999
rad35	2.87143e-07	0.999999	2.87169e-07	0.999999
rad37	2.27555e-07	1.000000	2.27576e-07	1.000000
rad38	2.12987e-07	1.000000	2.13006e-07	1.000000

rad46	5.68759e-09	1.000000	5.68810e-09	1.000000
rad60syn	1.08211e-09	1.000000	1.08221e-09	1.000000
rad60anti	4.39254e-10	1.000000	4.39293e-10	1.000000
rad19syn	6.92341e-11	1.000000	6.92404e-11	1.000000
PAH3+H	6.10400e-11	1.000000	6.10456e-11	1.000000
rad59	1.31853e-11	1.000000	1.31864e-11	1.000000
rad54	3.21887e-12	1.000000	3.21917e-12	1.000000
rad50	2.22681e-12	1.000000	2.22701e-12	1.000000
PAH10+CH3	2.02585e-12	1.000000	2.02603e-12	1.000000
rad67	7.75554e-13	1.000000	7.75624e-13	1.000000
rad43	4.01324e-13	1.000000	4.01360e-13	1.000000
rad62	1.66581e-13	1.000000	1.66596e-13	1.000000
rad6	1.44376e-13	1.000000	1.44389e-13	1.000000
PhcycC3H3_A+H	4.89128e-14	1.000000	4.89173e-14	1.000000
rad70	1.94638e-14	1.000000	1.94656e-14	1.000000
rad28	1.41166e-14	1.000000	1.41178e-14	1.000000
rad55	8.48746e-15	1.000000	8.48824e-15	1.000000
rad2	6.02010e-15	1.000000	6.02065e-15	1.000000
rad26	6.00260e-15	1.000000	6.00314e-15	1.000000
rad52	3.84231e-15	1.000000	3.84266e-15	1.000000
PAH1+H	2.34440e-15	1.000000	2.34461e-15	1.000000
rad1	4.53746e-16	1.000000	4.53786e-16	1.000000
rad10	4.31589e-16	1.000000	4.31629e-16	1.000000
rad51	4.07404e-16	1.000000	4.07441e-16	1.000000
rad3	2.51390e-16	1.000000	2.51413e-16	1.000000
rad34	1.57781e-16	1.000000	1.57796e-16	1.000000
rad4	1.25043e-16	1.000000	1.25055e-16	1.000000
rad58	2.99505e-17	1.000000	2.99533e-17	1.000000
rad7	1.30332e-17	1.000000	1.30343e-17	1.000000
rad65	6.35783e-18	1.000000	6.35841e-18	1.000000
rad42	4.93395e-18	1.000000	4.93440e-18	1.000000
rad11	4.69485e-18	1.000000	4.69528e-18	1.000000
rad41	1.53085e-18	1.000000	1.53098e-18	1.000000
rad25	6.59114e-19	1.000000	6.59174e-19	1.000000
rad14	5.72432e-19	1.000000	5.72484e-19	1.000000
rad27	1.47844e-19	1.000000	1.47858e-19	1.000000
rad53	1.09682e-19	1.000000	1.09692e-19	1.000000
rad13	8.01494e-20	1.000000	8.01568e-20	1.000000
rad64	2.63852e-20	1.000000	2.63876e-20	1.000000
rad23	2.28234e-20	1.000000	2.28255e-20	1.000000
rad33	4.04947e-21	1.000000	4.04984e-21	1.000000
rad31	2.87607e-21	1.000000	2.87633e-21	1.000000
rad45	1.55306e-21	1.000000	1.55321e-21	1.000000
rad56	3.10995e-22	1.000000	3.11023e-22	1.000000
rad21	1.10062e-22	1.000000	1.10072e-22	1.000000
rad20	8.39582e-23	1.000000	8.39659e-23	1.000000
rad36	5.29380e-23	1.000000	5.29428e-23	1.000000
rad61	3.56436e-23	1.000000	3.56468e-23	1.000000
rad68syn	3.28824e-23	1.000000	3.28854e-23	1.000000
rad68anti	2.37014e-23	1.000000	2.37036e-23	1.000000
rad18	8.01680e-25	1.000000	8.01753e-25	1.000000
rad9	6.31606e-25	1.000000	6.31664e-25	1.000000
rad22	5.04411e-25	1.000000	5.04457e-25	1.000000
rad40syn	5.33122e-26	1.000000	5.33171e-26	1.000000
rad5	2.42035e-26	1.000000	2.42057e-26	1.000000
rad40anti	1.32361e-26	1.000000	1.32374e-26	1.000000
PAH8+H	1.18606e-26	1.000000	1.18617e-26	1.000000
rad73	1.00619e-26	1.000000	1.00629e-26	1.000000
rad24	4.89146e-27	1.000000	4.89191e-27	1.000000
rad15	3.66836e-28	1.000000	3.66869e-28	1.000000
rad71	9.35036e-29	1.000000	9.35121e-29	1.000000
rad12	1.72006e-30	1.000000	1.72022e-30	1.000000
rad47	2.86302e-32	1.000000	2.86328e-32	1.000000
rad72	1.61637e-41	1.000000	1.61652e-41	1.000000
rad8	1.55101e-43	1.000000	1.55115e-43	1.000000

0.100000000E-07 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.11288e-15 (1.00)	5.10968e-15 (1.00)
Formation of rad11	3.08094e-15 (0.603)	3.07881e-15 (0.603)
Formation of rad6	1.54092e-15 (0.301)	1.53985e-15 (0.301)
H-abstraction	4.91025e-16 (0.0960)	4.91025e-16 (0.0961)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.804485	0.804485	0.804989	0.804989
Benzene+2-propynyl	0.0960368	0.900522	0.0960969	0.901086
C2H2+PhCH2	0.0525421	0.953064	0.0525751	0.953661

PhCCH+CH3	0.0262535	0.979317	0.0262700	0.979931
PhCHCCH2+H	0.0106706	0.989988	0.0106772	0.990608
PhCCCH3+H	0.00676080	0.996749	0.00676504	0.997373
Ph+MeAc	0.00228512	0.999034	0.00228655	0.999660
Phenyl+Allene	0.000625754	0.999659	0.000000	0.999660
PAH7+H	0.000215668	0.999875	0.000215804	0.999875
PhCH2CCH+H	6.37921e-05	0.999939	6.38320e-05	0.999939
rad39	4.88390e-05	0.999988	4.88695e-05	0.999988
rad30	4.71374e-06	0.999992	4.71670e-06	0.999993
rad19anti	2.55284e-06	0.999995	2.55443e-06	0.999995
PAH9+H	2.27172e-06	0.999997	2.27314e-06	0.999998
rad37	9.72231e-07	0.999998	9.72835e-07	0.999999
rad35	7.27597e-07	0.999999	7.28053e-07	0.999999
rad38	6.64248e-07	1.000000	6.64664e-07	1.000000
rad46	2.95927e-08	1.000000	2.96112e-08	1.000000
rad60syn	6.77132e-09	1.000000	6.77556e-09	1.000000
rad19syn	4.62790e-09	1.000000	4.63079e-09	1.000000
rad60anti	3.07480e-09	1.000000	3.07673e-09	1.000000
PAH3+H	1.45800e-09	1.000000	1.45892e-09	1.000000
rad54	4.18669e-10	1.000000	4.18931e-10	1.000000
rad59	2.84711e-10	1.000000	2.84889e-10	1.000000
PAH10+CH3	1.98074e-10	1.000000	1.98198e-10	1.000000
rad50	7.81204e-11	1.000000	7.81693e-11	1.000000
rad43	3.26732e-11	1.000000	3.26936e-11	1.000000
rad67	2.48951e-11	1.000000	2.49108e-11	1.000000
PhcycC3H3_A+H	2.37988e-11	1.000000	2.38137e-11	1.000000
rad62	2.26679e-11	1.000000	2.26821e-11	1.000000
rad70	7.63979e-12	1.000000	7.64458e-12	1.000000
rad55	3.50822e-12	1.000000	3.51042e-12	1.000000
PAH1+H	2.19400e-12	1.000000	2.19537e-12	1.000000
rad52	4.56316e-13	1.000000	4.56602e-13	1.000000
rad34	1.75088e-13	1.000000	1.75198e-13	1.000000
rad51	1.36997e-13	1.000000	1.37083e-13	1.000000
rad2	3.63943e-14	1.000000	3.64171e-14	1.000000
rad6	3.18733e-14	1.000000	3.18932e-14	1.000000
rad58	1.74184e-14	1.000000	1.74293e-14	1.000000
rad42	7.28195e-15	1.000000	7.28651e-15	1.000000
rad1	3.39586e-15	1.000000	3.39798e-15	1.000000
rad65	3.20497e-15	1.000000	3.20698e-15	1.000000
rad10	3.01247e-15	1.000000	3.01435e-15	1.000000
rad28	2.79809e-15	1.000000	2.79984e-15	1.000000
rad41	2.20567e-15	1.000000	2.20705e-15	1.000000
rad26	1.17785e-15	1.000000	1.17858e-15	1.000000
rad53	9.04225e-16	1.000000	9.04789e-16	1.000000
rad3	7.31435e-16	1.000000	7.31893e-16	1.000000
rad4	3.85595e-16	1.000000	3.85836e-16	1.000000
rad64	3.15111e-16	1.000000	3.15309e-16	1.000000
rad23	5.14170e-17	1.000000	5.14492e-17	1.000000
rad56	1.60193e-17	1.000000	1.60293e-17	1.000000
rad45	8.80131e-18	1.000000	8.80683e-18	1.000000
rad7	3.10664e-18	1.000000	3.10859e-18	1.000000
rad68syn	1.85188e-18	1.000000	1.85304e-18	1.000000
rad11	1.66306e-18	1.000000	1.66410e-18	1.000000
rad68anti	1.33289e-18	1.000000	1.33373e-18	1.000000
rad61	9.28153e-19	1.000000	9.28733e-19	1.000000
rad36	3.39495e-19	1.000000	3.39708e-19	1.000000
rad25	2.27150e-19	1.000000	2.27292e-19	1.000000
rad14	1.81617e-19	1.000000	1.81731e-19	1.000000
rad27	5.95434e-20	1.000000	5.95807e-20	1.000000
rad31	4.49564e-20	1.000000	4.49845e-20	1.000000
rad13	2.59563e-20	1.000000	2.59726e-20	1.000000
rad40syn	1.44546e-20	1.000000	1.44636e-20	1.000000
PAH8+H	8.90780e-21	1.000000	8.91337e-21	1.000000
rad33	4.86783e-21	1.000000	4.87088e-21	1.000000
rad40anti	3.67526e-21	1.000000	3.67756e-21	1.000000
rad73	2.38291e-21	1.000000	2.38441e-21	1.000000
rad21	2.89567e-22	1.000000	2.89749e-22	1.000000
rad20	1.85116e-22	1.000000	1.85232e-22	1.000000
rad71	9.34273e-23	1.000000	9.34862e-23	1.000000
rad9	1.35359e-23	1.000000	1.35444e-23	1.000000
rad22	1.41688e-24	1.000000	1.41776e-24	1.000000
rad18	8.22187e-25	1.000000	8.22702e-25	1.000000
rad24	1.02123e-25	1.000000	1.02187e-25	1.000000
rad5	3.48320e-26	1.000000	3.48538e-26	1.000000
rad15	8.16394e-27	1.000000	8.16904e-27	1.000000
rad12	1.76911e-28	1.000000	1.77021e-28	1.000000
rad72	8.89714e-29	1.000000	8.90270e-29	1.000000
rad47	7.50666e-30	1.000000	7.51136e-30	1.000000
rad8	4.40935e-41	1.000000	4.41211e-41	1.000000

0.100000000E-07 Pa, 500.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.11551e-14	(1.00)	2.10968e-14	(1.00)
Formation of rad11	1.10850e-14	(0.524)	1.10494e-14	(0.524)
Formation of rad6	7.08033e-15	(0.335)	7.05760e-15	(0.335)
H-abstraction	2.98976e-15	(0.141)	2.98976e-15	(0.142)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.706762	0.706762	0.708716	0.708716
Benzene+2-propynyl	0.141326	0.848088	0.141717	0.850433
C2H2+PhCH2	0.0811037	0.929191	0.0813279	0.931761
PhCCH+CH3	0.0389496	0.968141	0.0390573	0.970818
PhCHCCH2+H	0.0153921	0.983533	0.0154346	0.986253
PhCCCH3+H	0.00823928	0.991772	0.00826206	0.994515
Ph+MeAc	0.00432839	0.996101	0.00434036	0.998855
Phenyl+Allene	0.00275756	0.998858	0.000000	0.998855
PAH7+H	0.000574793	0.999433	0.000576383	0.999432
PhCH2CCH+H	0.000399546	0.999833	0.000400651	0.999832
rad39	0.000137925	0.999971	0.000138306	0.999971
rad30	9.14625e-06	0.999980	9.17153e-06	0.999980
rad19anti	7.87872e-06	0.999988	7.90052e-06	0.999988
PAH9+H	6.12734e-06	0.999994	6.14428e-06	0.999994
rad37	2.41829e-06	0.999996	2.42498e-06	0.999996
rad38	1.93439e-06	0.999998	1.93974e-06	0.999998
rad35	1.76562e-06	1.000000	1.77051e-06	1.000000
rad46	1.27870e-07	1.000000	1.28224e-07	1.000000
rad19syn	7.63986e-08	1.000000	7.66098e-08	1.000000
rad60syn	2.91346e-08	1.000000	2.92151e-08	1.000000
PAH3+H	1.45909e-08	1.000000	1.46312e-08	1.000000
rad60anti	1.41795e-08	1.000000	1.42187e-08	1.000000
rad54	1.02843e-08	1.000000	1.03128e-08	1.000000
PAH10+CH3	3.35592e-09	1.000000	3.36520e-09	1.000000
rad59	2.61933e-09	1.000000	2.62658e-09	1.000000
PhcycC3H3_A+H	1.25838e-09	1.000000	1.26187e-09	1.000000
rad50	1.15864e-09	1.000000	1.16185e-09	1.000000
rad62	4.84009e-10	1.000000	4.85347e-10	1.000000
rad43	4.60419e-10	1.000000	4.61691e-10	1.000000
rad67	3.97898e-10	1.000000	3.98999e-10	1.000000
rad70	3.42517e-10	1.000000	3.43464e-10	1.000000
PAH1+H	1.64298e-10	1.000000	1.64753e-10	1.000000
rad55	1.59822e-10	1.000000	1.60264e-10	1.000000
rad34	1.41616e-11	1.000000	1.42007e-11	1.000000
rad52	1.34820e-11	1.000000	1.35193e-11	1.000000
rad51	7.24796e-12	1.000000	7.26800e-12	1.000000
rad58	1.01105e-12	1.000000	1.01385e-12	1.000000
rad42	6.16327e-13	1.000000	6.18031e-13	1.000000
rad53	2.35883e-13	1.000000	2.36535e-13	1.000000
rad65	2.01730e-13	1.000000	2.02287e-13	1.000000
rad2	1.79028e-13	1.000000	1.79524e-13	1.000000
rad41	1.64828e-13	1.000000	1.65283e-13	1.000000
rad64	9.67571e-14	1.000000	9.70247e-14	1.000000
rad1	2.16273e-14	1.000000	2.16871e-14	1.000000
rad56	1.22099e-14	1.000000	1.22437e-14	1.000000
rad6	9.86849e-15	1.000000	9.89575e-15	1.000000
rad10	9.80864e-15	1.000000	9.83576e-15	1.000000
rad23	5.74562e-15	1.000000	5.76151e-15	1.000000
rad3	4.64557e-15	1.000000	4.65842e-15	1.000000
rad4	2.64915e-15	1.000000	2.65647e-15	1.000000
rad45	1.56429e-15	1.000000	1.56862e-15	1.000000
rad68syn	1.45353e-15	1.000000	1.45755e-15	1.000000
rad68anti	1.02673e-15	1.000000	1.02957e-15	1.000000
rad28	5.79574e-16	1.000000	5.81176e-16	1.000000
rad61	4.14122e-16	1.000000	4.15268e-16	1.000000
rad26	2.41975e-16	1.000000	2.42644e-16	1.000000
rad36	8.67999e-17	1.000000	8.70394e-17	1.000000
PAH8+H	3.33496e-17	1.000000	3.34418e-17	1.000000
rad40syn	2.92057e-17	1.000000	2.92865e-17	1.000000
rad40anti	8.32431e-18	1.000000	8.34733e-18	1.000000
rad73	5.15909e-18	1.000000	5.17336e-18	1.000000
rad7	1.08414e-18	1.000000	1.08714e-18	1.000000
rad11	9.87810e-19	1.000000	9.90536e-19	1.000000
rad71	4.73125e-19	1.000000	4.74433e-19	1.000000
rad31	2.28423e-19	1.000000	2.29054e-19	1.000000
rad25	1.03858e-19	1.000000	1.04144e-19	1.000000
rad14	7.33222e-20	1.000000	7.35249e-20	1.000000
rad27	3.27951e-20	1.000000	3.28857e-20	1.000000
rad13	2.35476e-20	1.000000	2.36128e-20	1.000000

rad33	1.13764e-20	1.00000	1.14079e-20	1.00000
rad21	1.71852e-21	1.00000	1.72327e-21	1.00000
rad9	8.96696e-22	1.00000	8.99172e-22	1.00000
rad20	8.81120e-22	1.00000	8.83551e-22	1.00000
rad22	4.05575e-23	1.00000	4.06697e-23	1.00000
rad72	9.23573e-24	1.00000	9.26122e-24	1.00000
rad24	6.91966e-24	1.00000	6.93880e-24	1.00000
rad18	1.33406e-24	1.00000	1.33775e-24	1.00000
rad15	5.72278e-25	1.00000	5.73860e-25	1.00000
rad12	6.95670e-26	1.00000	6.97593e-26	1.00000
rad5	3.21171e-26	1.00000	3.22059e-26	1.00000
rad47	4.86077e-28	1.00000	4.87421e-28	1.00000
rad8	8.30250e-38	1.00000	8.32546e-38	1.00000

0.100000000E-07 Pa, 600.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	6.08120e-14	(1.00)	6.02869e-14	(1.00)
Formation of rad11	2.83304e-14	(0.466)	2.80313e-14	(0.465)
Formation of rad6	2.13840e-14	(0.352)	2.11582e-14	(0.351)
H-abstraction	1.10975e-14	(0.182)	1.10975e-14	(0.184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.606934	0.606934	0.612219	0.612219
Benzene+2-propynyl	0.182488	0.789422	0.184077	0.796297
C2H2+PhCH2	0.112836	0.902258	0.113819	0.910116
PhCCH+CH3	0.0502927	0.952551	0.0507307	0.960846
PhCHCCH2+H	0.0208956	0.973447	0.0210776	0.981924
Phenyl+Allene	0.00863333	0.982080	0.000000	0.981924
PhCCCH3+H	0.00840933	0.990489	0.00848258	0.990406
Ph+MeAc	0.00630896	0.996798	0.00636390	0.996770
PhCH2CCH+H	0.00158536	0.998384	0.00159917	0.998369
PAH7+H	0.00124706	0.999631	0.00125792	0.999627
rad39	0.000304554	0.999935	0.000307206	0.999935
rad19anti	2.07283e-05	0.999956	2.09088e-05	0.999955
rad30	1.54421e-05	0.999971	1.55766e-05	0.999971
PAH9+H	1.45719e-05	0.999986	1.46988e-05	0.999986
rad38	4.88300e-06	0.999991	4.92552e-06	0.999991
rad37	4.23980e-06	0.999995	4.27673e-06	0.999995
rad35	3.83137e-06	0.999999	3.86474e-06	0.999999
rad19syn	5.75843e-07	1.000000	5.80858e-07	0.999999
rad46	4.35560e-07	1.000000	4.39353e-07	1.000000
rad54	1.01017e-07	1.000000	1.01897e-07	1.000000
rad60syn	8.96254e-08	1.000000	9.04058e-08	1.000000
PAH3+H	8.11822e-08	1.000000	8.18892e-08	1.000000
rad60anti	4.57655e-08	1.000000	4.61641e-08	1.000000
PAH10+CH3	2.25831e-08	1.000000	2.27797e-08	1.000000
PhcycC3H3_A+H	2.05528e-08	1.000000	2.07318e-08	1.000000
rad59	1.35486e-08	1.000000	1.36666e-08	1.000000
rad50	9.40269e-09	1.000000	9.48453e-09	1.000000
rad70	4.88193e-09	1.000000	4.92445e-09	1.000000
rad62	3.91161e-09	1.000000	3.94568e-09	1.000000
rad67	3.65819e-09	1.000000	3.69004e-09	1.000000
PAH1+H	3.25971e-09	1.000000	3.28810e-09	1.000000
rad43	2.57504e-09	1.000000	2.59746e-09	1.000000
rad55	2.29328e-09	1.000000	2.31325e-09	1.000000
rad34	2.96007e-10	1.000000	2.98585e-10	1.000000
rad52	1.70972e-10	1.000000	1.72461e-10	1.000000
rad51	1.34047e-10	1.000000	1.35214e-10	1.000000
rad58	1.71337e-11	1.000000	1.72829e-11	1.000000
rad42	1.22225e-11	1.000000	1.23290e-11	1.000000
rad53	1.06169e-11	1.000000	1.07093e-11	1.000000
rad64	4.60104e-12	1.000000	4.64111e-12	1.000000
rad65	4.04333e-12	1.000000	4.07854e-12	1.000000
rad41	2.76375e-12	1.000000	2.78781e-12	1.000000
rad56	1.10531e-12	1.000000	1.11493e-12	1.000000
rad2	2.86696e-13	1.000000	2.89193e-13	1.000000
rad68syn	1.32095e-13	1.000000	1.33246e-13	1.000000
rad68anti	9.18033e-14	1.000000	9.26031e-14	1.000000
rad1	4.58958e-14	1.000000	4.62954e-14	1.000000
rad23	3.52255e-14	1.000000	3.55323e-14	1.000000
rad61	2.45770e-14	1.000000	2.47911e-14	1.000000
rad45	1.04458e-14	1.000000	1.05368e-14	1.000000
rad3	9.03023e-15	1.000000	9.10888e-15	1.000000
rad10	8.96508e-15	1.000000	9.04311e-15	1.000000
PAH8+H	8.64322e-15	1.000000	8.71846e-15	1.000000
rad4	5.70988e-15	1.000000	5.75960e-15	1.000000
rad40syn	4.97708e-15	1.000000	5.02043e-15	1.000000

rad6	4.21897e-15	1.00000	4.25571e-15	1.00000
rad40anti	1.59900e-15	1.00000	1.61293e-15	1.00000
rad73	1.02473e-15	1.00000	1.03366e-15	1.00000
rad36	9.86794e-16	1.00000	9.95393e-16	1.00000
rad71	1.66064e-16	1.00000	1.67511e-16	1.00000
rad28	1.34038e-16	1.00000	1.35205e-16	1.00000
rad26	5.58089e-17	1.00000	5.62949e-17	1.00000
rad11	1.02361e-18	1.00000	1.03253e-18	1.00000
rad7	5.77485e-19	1.00000	5.82514e-19	1.00000
rad31	3.07518e-19	1.00000	3.10197e-19	1.00000
rad9	9.87562e-20	1.00000	9.96160e-20	1.00000
rad13	7.43727e-20	1.00000	7.50204e-20	1.00000
rad25	7.31624e-20	1.00000	7.37995e-20	1.00000
rad33	5.23432e-20	1.00000	5.27990e-20	1.00000
rad14	4.27494e-20	1.00000	4.31217e-20	1.00000
rad72	2.84954e-20	1.00000	2.87435e-20	1.00000
rad27	2.76910e-20	1.00000	2.79321e-20	1.00000
rad21	2.17602e-20	1.00000	2.19497e-20	1.00000
rad20	9.04724e-21	1.00000	9.12601e-21	1.00000
rad24	7.30642e-22	1.00000	7.37005e-22	1.00000
rad22	1.85751e-22	1.00000	1.87368e-22	1.00000
rad15	5.95986e-23	1.00000	6.01176e-23	1.00000
rad12	3.30939e-23	1.00000	3.33822e-23	1.00000
rad18	3.85163e-24	1.00000	3.88518e-24	1.00000
rad5	2.70169e-26	1.00000	2.72522e-26	1.00000
rad47	1.06838e-26	1.00000	1.07769e-26	1.00000
rad8	7.32789e-34	1.00000	7.39170e-34	1.00000

0.100000000E-07 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.39564e-13 (1.00)	1.36669e-13 (1.00)
Formation of rad11	5.88273e-14 (0.422)	5.72650e-14 (0.419)
Formation of rad6	5.01684e-14 (0.359)	4.88360e-14 (0.357)
H-abstraction	3.05678e-14 (0.219)	3.05678e-14 (0.224)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.510454	0.510454	0.521265	0.521265
Benzene+2-propynyl	0.219024	0.729478	0.223663	0.744928
C2H2+PhCH2	0.140690	0.870167	0.143670	0.888598
PhCCH+CH3	0.0586093	0.928777	0.0598506	0.948449
PhCHCCH2+H	0.0277623	0.956539	0.0283503	0.976799
Phenyl+Allene	0.0207415	0.977280	0.000000	0.976799
Ph+MeAc	0.00771340	0.984994	0.00787679	0.984676
PhCCCH3+H	0.00756061	0.992554	0.00772075	0.992396
PhCH2CCH+H	0.00451180	0.997066	0.00460736	0.997004
PAH7+H	0.00225727	0.999324	0.00230508	0.999309
rad39	0.000548289	0.999872	0.000559902	0.999869
rad19anti	4.66037e-05	0.999918	4.75908e-05	0.999916
PAH9+H	2.99985e-05	0.999948	3.06339e-05	0.999947
rad30	2.26762e-05	0.999971	2.31565e-05	0.999970
rad38	1.05314e-05	0.999982	1.07544e-05	0.999981
rad35	7.29844e-06	0.999989	7.45303e-06	0.999988
rad37	5.93522e-06	0.999995	6.06093e-06	0.999994
rad19syn	2.61380e-06	0.999998	2.66916e-06	0.999997
rad46	1.18432e-06	0.999999	1.20940e-06	0.999998
rad54	5.53865e-07	0.999999	5.65596e-07	0.999999
PAH3+H	2.96686e-07	1.000000	3.02969e-07	0.999999
rad60syn	2.09904e-07	1.000000	2.14349e-07	0.999999
PhcycC3H3_A+H	1.62838e-07	1.000000	1.66287e-07	1.000000
rad60anti	1.11059e-07	1.000000	1.13411e-07	1.000000
PAH10+CH3	8.88407e-08	1.000000	9.07227e-08	1.000000
rad50	4.89398e-08	1.000000	4.99764e-08	1.000000
rad59	4.64276e-08	1.000000	4.74110e-08	1.000000
rad70	3.43279e-08	1.000000	3.50550e-08	1.000000
PAH1+H	2.87927e-08	1.000000	2.94026e-08	1.000000
rad67	2.16413e-08	1.000000	2.20997e-08	1.000000
rad62	1.75396e-08	1.000000	1.79112e-08	1.000000
rad55	1.62462e-08	1.000000	1.65903e-08	1.000000
rad43	8.26632e-09	1.000000	8.44142e-09	1.000000
rad34	2.73084e-09	1.000000	2.78868e-09	1.000000
rad51	1.25002e-09	1.000000	1.27650e-09	1.000000
rad52	1.21856e-09	1.000000	1.24437e-09	1.000000
rad53	1.69563e-10	1.000000	1.73154e-10	1.000000
rad58	1.35852e-10	1.000000	1.38730e-10	1.000000
rad42	1.03499e-10	1.000000	1.05691e-10	1.000000
rad64	7.31424e-11	1.000000	7.46916e-11	1.000000
rad65	3.91347e-11	1.000000	3.99636e-11	1.000000

rad56	2.88481e-11	1.00000	2.94592e-11	1.000000
rad41	1.94813e-11	1.00000	1.98939e-11	1.000000
rad68syn	3.41597e-12	1.00000	3.48832e-12	1.000000
rad68anti	2.34479e-12	1.00000	2.39446e-12	1.000000
PAH8+H	4.75489e-13	1.00000	4.85561e-13	1.000000
rad61	4.69346e-13	1.00000	4.79287e-13	1.000000
rad40syn	2.01813e-13	1.00000	2.06087e-13	1.000000
rad2	1.63927e-13	1.00000	1.67398e-13	1.000000
rad40anti	7.19648e-14	1.00000	7.34890e-14	1.000000
rad73	4.99138e-14	1.00000	5.09710e-14	1.000000
rad23	4.16934e-14	1.00000	4.25765e-14	1.000000
rad1	3.27006e-14	1.00000	3.33932e-14	1.000000
rad45	1.36703e-14	1.00000	1.39599e-14	1.000000
rad71	1.21717e-14	1.00000	1.24296e-14	1.000000
rad3	4.26729e-15	1.00000	4.35768e-15	1.000000
rad10	4.23914e-15	1.00000	4.32892e-15	1.000000
rad4	2.99805e-15	1.00000	3.06155e-15	1.000000
rad6	1.62320e-15	1.00000	1.65758e-15	1.000000
rad36	1.41534e-15	1.00000	1.44531e-15	1.000000
rad28	3.68624e-17	1.00000	3.76432e-17	1.000000
rad26	1.54104e-17	1.00000	1.57368e-17	1.000000
rad9	7.80562e-18	1.00000	7.97096e-18	1.000000
rad72	4.76757e-18	1.00000	4.86855e-18	1.000000
rad11	1.88785e-18	1.00000	1.92784e-18	1.000000
rad13	5.37295e-19	1.00000	5.48675e-19	1.000000
rad7	4.28235e-19	1.00000	4.37305e-19	1.000000
rad21	3.99856e-19	1.00000	4.08326e-19	1.000000
rad33	3.80933e-19	1.00000	3.89001e-19	1.000000
rad31	1.78365e-19	1.00000	1.82143e-19	1.000000
rad20	1.48743e-19	1.00000	1.51893e-19	1.000000
rad25	8.89367e-20	1.00000	9.08205e-20	1.000000
rad24	3.96761e-20	1.00000	4.05165e-20	1.000000
rad14	3.92222e-20	1.00000	4.00530e-20	1.000000
rad27	3.69501e-20	1.00000	3.77328e-20	1.000000
rad12	4.79208e-21	1.00000	4.89358e-21	1.000000
rad15	3.10508e-21	1.00000	3.17085e-21	1.000000
rad22	2.20970e-22	1.00000	2.25650e-22	1.000000
rad18	2.13926e-23	1.00000	2.18456e-23	1.000000
rad47	9.03917e-26	1.00000	9.23064e-26	1.000000
rad5	2.52746e-26	1.00000	2.58100e-26	1.000000
rad8	9.25480e-30	1.00000	9.45081e-30	1.000000

0.100000000E-07 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.75392e-13 (1.00)	2.64229e-13 (1.00)
Formation of rad11	1.06471e-13 (0.387)	1.00706e-13 (0.381)
Formation of rad6	9.97133e-14 (0.362)	9.43145e-14 (0.357)
H-abstraction	6.92082e-14 (0.251)	6.92082e-14 (0.262)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.420963	0.420963	0.438748	0.438748
Benzene+2-propynyl	0.251308	0.672270	0.261925	0.700673
C2H2+PhCH2	0.158756	0.831027	0.165464	0.866137
PhCCH+CH3	0.0631452	0.894172	0.0658130	0.931950
Phenyl+Allene	0.0405363	0.934708	0.000000	0.931950
PhCHCCH2+H	0.0360793	0.970788	0.0376036	0.969553
PhCH2CCH+H	0.00999819	0.980786	0.0104207	0.979974
Ph+MeAc	0.00840385	0.989190	0.00875888	0.988733
PhCCCH3+H	0.00623443	0.995424	0.00649783	0.995231
PAH7+H	0.00351019	0.998934	0.00365850	0.998889
rad39	0.000836596	0.999771	0.000871939	0.999761
rad19anti	9.01935e-05	0.999861	9.40042e-05	0.999855
PAH9+H	5.38600e-05	0.999915	5.61355e-05	0.999911
rad30	2.94556e-05	0.999944	3.07000e-05	0.999942
rad38	1.96291e-05	0.999964	2.04585e-05	0.999962
rad35	1.22732e-05	0.999976	1.27916e-05	0.999975
rad19syn	8.33347e-06	0.999985	8.68552e-06	0.999984
rad37	7.26188e-06	0.999992	7.56866e-06	0.999992
rad46	2.65265e-06	0.999995	2.76472e-06	0.999994
rad54	2.03471e-06	0.999997	2.12067e-06	0.999996
PAH3+H	7.96489e-07	0.999997	8.30142e-07	0.999997
PhcycC3H3_A+H	7.94325e-07	0.999998	8.27884e-07	0.999998
rad60syn	3.96788e-07	0.999999	4.13552e-07	0.999998
PAH10+CH3	2.53197e-07	0.999999	2.63894e-07	0.999999
rad60anti	2.15811e-07	0.999999	2.24928e-07	0.999999
rad50	1.82305e-07	0.999999	1.90007e-07	0.999999
rad70	1.50040e-07	0.999999	1.56379e-07	0.999999

PAH1+H	1.48682e-07	0.999999	1.54963e-07	0.999999
rad59	1.17661e-07	1.000000	1.22632e-07	1.000000
rad67	9.03380e-08	1.000000	9.41547e-08	1.000000
rad55	7.18814e-08	1.000000	7.49183e-08	1.000000
rad62	5.32905e-08	1.000000	5.55419e-08	1.000000
rad43	1.85215e-08	1.000000	1.93041e-08	1.000000
rad34	1.46559e-08	1.000000	1.52750e-08	1.000000
rad51	7.22365e-09	1.000000	7.52888e-09	1.000000
rad52	5.73950e-09	1.000000	5.98199e-09	1.000000
rad53	1.38657e-09	1.000000	1.44515e-09	1.000000
rad58	6.48417e-10	1.000000	6.75812e-10	1.000000
rad64	5.75074e-10	1.000000	5.99371e-10	1.000000
rad42	5.07610e-10	1.000000	5.29056e-10	1.000000
rad56	3.39878e-10	1.000000	3.54238e-10	1.000000
rad65	2.29598e-10	1.000000	2.39299e-10	1.000000
rad41	7.94160e-11	1.000000	8.27714e-11	1.000000
rad68syn	3.95119e-11	1.000000	4.11813e-11	1.000000
rad68anti	2.86637e-11	1.000000	2.79986e-11	1.000000
PAH8+H	9.75569e-12	1.000000	1.01678e-11	1.000000
rad61	4.46180e-12	1.000000	4.65031e-12	1.000000
rad40syn	3.27953e-12	1.000000	3.41808e-12	1.000000
rad40anti	1.27570e-12	1.000000	1.32959e-12	1.000000
rad73	9.82037e-13	1.000000	1.02353e-12	1.000000
rad71	3.27514e-13	1.000000	3.41351e-13	1.000000
rad2	5.36774e-14	1.000000	5.59452e-14	1.000000
rad23	2.38414e-14	1.000000	2.48486e-14	1.000000
rad1	1.06238e-14	1.000000	1.10726e-14	1.000000
rad45	9.96607e-15	1.000000	1.03871e-14	1.000000
rad3	1.42601e-15	1.000000	1.48626e-15	1.000000
rad10	1.13818e-15	1.000000	1.18626e-15	1.000000
rad4	1.01585e-15	1.000000	1.05877e-15	1.000000
rad36	9.55069e-16	1.000000	9.95419e-16	1.000000
rad6	6.64111e-16	1.000000	6.92169e-16	1.000000
rad72	3.07086e-16	1.000000	3.20060e-16	1.000000
rad9	1.94381e-16	1.000000	2.02593e-16	1.000000
rad28	1.32323e-17	1.000000	1.37913e-17	1.000000
rad11	6.34975e-18	1.000000	6.61801e-18	1.000000
rad21	5.89264e-18	1.000000	6.14159e-18	1.000000
rad13	5.65784e-18	1.000000	5.89687e-18	1.000000
rad26	5.58363e-18	1.000000	5.81954e-18	1.000000
rad33	2.86164e-18	1.000000	2.98255e-18	1.000000
rad20	2.26268e-18	1.000000	2.35827e-18	1.000000
rad7	8.56167e-19	1.000000	8.92340e-19	1.000000
rad24	5.58298e-19	1.000000	5.81886e-19	1.000000
rad25	1.92043e-19	1.000000	2.00156e-19	1.000000
rad12	1.15817e-19	1.000000	1.20710e-19	1.000000
rad31	8.40534e-20	1.000000	8.76043e-20	1.000000
rad27	7.05988e-20	1.000000	7.35816e-20	1.000000
rad14	5.74858e-20	1.000000	5.99146e-20	1.000000
rad15	4.43278e-20	1.000000	4.62007e-20	1.000000
rad18	2.25392e-22	1.000000	2.34914e-22	1.000000
rad22	1.38849e-22	1.000000	1.44715e-22	1.000000
rad47	5.02496e-25	1.000000	5.23725e-25	1.000000
rad8	3.33307e-26	1.000000	3.47390e-26	1.000000
rad5	3.10996e-26	1.000000	3.24134e-26	1.000000

0.100000000E-07 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.88072e-13 (1.00)	4.55158e-13 (1.00)
Formation of rad11	1.74945e-13 (0.358)	1.58562e-13 (0.348)
Formation of rad6	1.76509e-13 (0.362)	1.59978e-13 (0.351)
H-abstraction	1.36618e-13 (0.280)	1.36618e-13 (0.300)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.341014	0.341014	0.365674	0.365674
Benzene+2-propynyl	0.279914	0.620928	0.300155	0.665829
C2H2+PhCH2	0.164625	0.785553	0.176529	0.842358
Phenyl+Allene	0.0674364	0.852989	0.000000	0.842358
PhCCH+CH3	0.0639259	0.916915	0.0685486	0.910906
PhCHCCH2+H	0.0451268	0.962042	0.0483901	0.959297
PhCH2CCH+H	0.0182967	0.980338	0.0196198	0.978916
Ph+MeAc	0.00849313	0.988832	0.00910729	0.988024
PhCCCH3+H	0.00485364	0.993685	0.00520463	0.993228
PAH7+H	0.00482415	0.998509	0.00517299	0.998401
rad39	0.00111872	0.999628	0.00119961	0.999601
rad19anti	0.000152570	0.999781	0.000163603	0.999764
PAH9+H	8.58055e-05	0.999866	9.20100e-05	0.999856

rad30	3.45816e-05	0.999901	3.70824e-05	0.999894
rad38	3.22626e-05	0.999933	3.45956e-05	0.999928
rad19syn	2.05726e-05	0.999954	2.20602e-05	0.999950
rad35	1.85019e-05	0.999972	1.98398e-05	0.999970
rad37	8.30353e-06	0.999981	8.90399e-06	0.999979
rad54	5.61022e-06	0.999986	6.01591e-06	0.999985
rad46	5.06238e-06	0.999991	5.42846e-06	0.999990
PhcycC3H3_A+H	2.75303e-06	0.999994	2.95211e-06	0.999993
PAH3+H	1.70031e-06	0.999996	1.82327e-06	0.999995
rad60syn	6.35566e-07	0.999996	6.81526e-07	0.999996
PAH10+CH3	5.91896e-07	0.999997	6.34698e-07	0.999996
PAH1+H	5.27743e-07	0.999998	5.65906e-07	0.999997
rad50	5.26055e-07	0.999998	5.64096e-07	0.999998
rad70	4.68169e-07	0.999999	5.02024e-07	0.999998
rad60anti	3.53464e-07	0.999999	3.79023e-07	0.999999
rad67	2.86638e-07	0.999999	3.07366e-07	0.999999
rad59	2.38374e-07	0.999999	2.55613e-07	0.999999
rad55	2.28529e-07	1.000000	2.45055e-07	0.999999
rad62	1.23575e-07	1.000000	1.32511e-07	0.999999
rad34	5.38118e-08	1.000000	5.77031e-08	0.999999
rad43	3.25336e-08	1.000000	3.48862e-08	1.000000
rad51	2.94628e-08	1.000000	3.15934e-08	1.000000
rad52	1.98861e-08	1.000000	2.13241e-08	1.000000
rad53	7.16536e-09	1.000000	7.68353e-09	1.000000
rad64	2.79837e-09	1.000000	3.00073e-09	1.000000
rad56	2.33179e-09	1.000000	2.50041e-09	1.000000
rad58	2.16896e-09	1.000000	2.32580e-09	1.000000
rad42	1.71810e-09	1.000000	1.84235e-09	1.000000
rad65	9.39252e-10	1.000000	1.00717e-09	1.000000
rad68syn	2.64056e-10	1.000000	2.83151e-10	1.000000
rad41	2.24666e-10	1.000000	2.40913e-10	1.000000
rad68anti	1.78166e-10	1.000000	1.91050e-10	1.000000
PAH8+H	1.02532e-10	1.000000	1.09946e-10	1.000000
rad40syn	2.86480e-11	1.000000	3.07196e-11	1.000000
rad61	2.66398e-11	1.000000	2.85662e-11	1.000000
rad40anti	1.19773e-11	1.000000	1.28434e-11	1.000000
rad73	1.03641e-11	1.000000	1.11135e-11	1.000000
rad71	4.43742e-12	1.000000	4.75831e-12	1.000000
rad2	1.30918e-14	1.000000	1.40385e-14	1.000000
rad23	1.10453e-14	1.000000	1.18440e-14	1.000000
rad72	8.45986e-15	1.000000	9.07160e-15	1.000000
rad45	5.54585e-15	1.000000	5.94689e-15	1.000000
rad1	2.65636e-15	1.000000	2.84845e-15	1.000000
rad9	9.58550e-16	1.000000	1.02786e-15	1.000000
rad36	5.29461e-16	1.000000	5.67747e-16	1.000000
rad6	4.51650e-16	1.000000	4.84309e-16	1.000000
rad3	4.22300e-16	1.000000	4.52837e-16	1.000000
rad4	3.12881e-16	1.000000	3.35507e-16	1.000000
rad10	2.35259e-16	1.000000	2.52272e-16	1.000000
rad13	4.90674e-17	1.000000	5.26156e-17	1.000000
rad21	3.80389e-17	1.000000	4.07897e-17	1.000000
rad11	2.95865e-17	1.000000	3.17260e-17	1.000000
rad20	1.64991e-17	1.000000	1.76922e-17	1.000000
rad33	1.26647e-17	1.000000	1.35806e-17	1.000000
rad28	6.03226e-18	1.000000	6.46846e-18	1.000000
rad7	3.78968e-18	1.000000	4.06372e-18	1.000000
rad26	2.56763e-18	1.000000	2.75330e-18	1.000000
rad24	1.88184e-18	1.000000	2.01792e-18	1.000000
rad25	5.51827e-19	1.000000	5.91731e-19	1.000000
rad12	5.35710e-19	1.000000	5.74448e-19	1.000000
rad15	1.51594e-19	1.000000	1.62556e-19	1.000000
rad27	1.32691e-19	1.000000	1.42286e-19	1.000000
rad14	1.05204e-19	1.000000	1.12812e-19	1.000000
rad31	4.19944e-20	1.000000	4.50311e-20	1.000000
rad18	3.26809e-21	1.000000	3.50442e-21	1.000000
rad22	7.40436e-23	1.000000	7.93974e-23	1.000000
rad8	1.12161e-23	1.000000	1.20272e-23	1.000000
rad47	2.05588e-24	1.000000	2.20455e-24	1.000000
rad5	5.08614e-26	1.000000	5.45393e-26	1.000000

0.100000000E-07 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.98668e-13 (1.00)	7.19594e-13 (1.00)
Formation of rad11	2.67704e-13 (0.335)	2.29546e-13 (0.319)
Formation of rad6	2.87049e-13 (0.359)	2.46133e-13 (0.342)
H-abstraction	2.43915e-13 (0.305)	2.43915e-13 (0.339)
species	PYtrue Cumul	PYeffective Cumul

Benzene+2-propynyl	0.305402	0.305402	0.338962	0.338962
Indene+H	0.272124	0.577526	0.302027	0.640989
C2H2+PhCH2	0.159453	0.736979	0.176975	0.817964
Phenyl+Allene	0.0990073	0.835987	0.000000	0.817964
PhCCH+CH3	0.0616205	0.897607	0.0683917	0.886356
PhCHCCH2+H	0.0537596	0.951367	0.0596670	0.946023
PhCH2CCH+H	0.0288969	0.980264	0.0320723	0.978095
Ph+MeAc	0.00817632	0.988440	0.00907480	0.987170
PAH7+H	0.00601184	0.994452	0.00667246	0.993842
PhCCCH3+H	0.00364277	0.998095	0.00404307	0.997885
rad39	0.00134896	0.999444	0.00149719	0.999382
rad19anti	0.000230025	0.999674	0.000255302	0.999638
PAH9+H	0.000123695	0.999797	0.000137287	0.999775
rad38	4.77792e-05	0.999845	5.30296e-05	0.999828
rad19syn	4.20371e-05	0.999887	4.66565e-05	0.999875
rad30	3.74826e-05	0.999925	4.16015e-05	0.999916
rad35	2.54628e-05	0.999950	2.82608e-05	0.999945
rad54	1.25292e-05	0.999963	1.39061e-05	0.999959
rad37	9.28205e-06	0.999972	1.03021e-05	0.999969
rad46	8.48861e-06	0.999980	9.42145e-06	0.999978
PhcycC3H3_A+H	7.44283e-06	0.999988	8.26073e-06	0.999987
PAH3+H	3.05843e-06	0.999991	3.39451e-06	0.999990
PAH1+H	1.42911e-06	0.999992	1.58616e-06	0.999991
rad50	1.24669e-06	0.999994	1.38369e-06	0.999993
PAH10+CH3	1.21323e-06	0.999995	1.34654e-06	0.999994
rad70	1.14131e-06	0.999996	1.26673e-06	0.999995
rad60syn	8.97094e-07	0.999997	9.95669e-07	0.999996
rad67	7.32850e-07	0.999998	8.13375e-07	0.999997
rad55	5.71763e-07	0.999998	6.34592e-07	0.999998
rad60anti	5.08253e-07	0.999999	5.64103e-07	0.999999
rad59	4.08645e-07	0.999999	4.53550e-07	0.999999
rad62	2.36337e-07	0.999999	2.62307e-07	0.999999
rad34	1.49947e-07	0.999999	1.66424e-07	0.999999
rad51	9.25830e-08	0.999999	1.02757e-07	0.999999
rad52	5.46149e-08	1.000000	6.06164e-08	1.000000
rad43	4.82842e-08	1.000000	5.35901e-08	1.000000
rad53	2.66802e-08	1.000000	2.96121e-08	1.000000
rad56	1.08965e-08	1.000000	1.20939e-08	1.000000
rad64	9.68714e-09	1.000000	1.07517e-08	1.000000
rad58	5.61421e-09	1.000000	6.23115e-09	1.000000
rad42	4.47913e-09	1.000000	4.97133e-09	1.000000
rad65	2.93939e-09	1.000000	3.26239e-09	1.000000
rad68syn	1.19347e-09	1.000000	1.32462e-09	1.000000
rad68anti	8.00253e-10	1.000000	8.88191e-10	1.000000
PAH8+H	6.70053e-10	1.000000	7.43681e-10	1.000000
rad41	4.94029e-10	1.000000	5.48317e-10	1.000000
rad40syn	1.60977e-10	1.000000	1.78667e-10	1.000000
rad61	1.14008e-10	1.000000	1.26536e-10	1.000000
rad40anti	7.14860e-11	1.000000	7.93411e-11	1.000000
rad73	6.98974e-11	1.000000	7.75781e-11	1.000000
rad71	3.67488e-11	1.000000	4.07870e-11	1.000000
rad72	1.23083e-13	1.000000	1.36609e-13	1.000000
rad23	5.33400e-15	1.000000	5.92013e-15	1.000000
rad2	3.20662e-15	1.000000	3.55898e-15	1.000000
rad45	3.00374e-15	1.000000	3.33381e-15	1.000000
rad9	1.42538e-15	1.000000	1.58200e-15	1.000000
rad1	7.07073e-16	1.000000	7.84772e-16	1.000000
rad6	5.84524e-16	1.000000	6.48756e-16	1.000000
rad36	2.87643e-16	1.000000	3.19252e-16	1.000000
rad13	2.41230e-16	1.000000	2.67738e-16	1.000000
rad11	1.49792e-16	1.000000	1.66252e-16	1.000000
rad3	1.39346e-16	1.000000	1.54659e-16	1.000000
rad4	1.06999e-16	1.000000	1.18757e-16	1.000000
rad21	9.56156e-17	1.000000	1.06122e-16	1.000000
rad10	6.43985e-17	1.000000	7.14748e-17	1.000000
rad20	4.65001e-17	1.000000	5.16098e-17	1.000000
rad33	2.70073e-17	1.000000	2.99751e-17	1.000000
rad7	2.24029e-17	1.000000	2.48647e-17	1.000000
rad28	3.79060e-18	1.000000	4.20713e-18	1.000000
rad24	2.48801e-18	1.000000	2.76141e-18	1.000000
rad26	1.59307e-18	1.000000	1.76814e-18	1.000000
rad25	1.49317e-18	1.000000	1.65725e-18	1.000000
rad12	9.30060e-19	1.000000	1.03226e-18	1.000000
rad14	1.89393e-19	1.000000	2.10206e-19	1.000000
rad15	1.87665e-19	1.000000	2.08287e-19	1.000000
rad27	1.85942e-19	1.000000	2.06374e-19	1.000000
rad18	4.54218e-20	1.000000	5.04131e-20	1.000000
rad31	2.32683e-20	1.000000	2.58252e-20	1.000000
rad8	3.75825e-22	1.000000	4.17124e-22	1.000000

rad22	6.05647e-23	1.000000	6.72197e-23	1.000000
rad47	6.62542e-24	1.000000	7.35346e-24	1.000000
rad5	1.19898e-25	1.000000	1.33073e-25	1.000000

0.100000000E-07 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22919e-12 (1.00)	1.06688e-12 (1.00)
Formation of rad11	3.87976e-13 (0.316)	3.11712e-13 (0.292)
Formation of rad6	4.37724e-13 (0.356)	3.51681e-13 (0.330)
H-abstraction	4.03491e-13 (0.328)	4.03491e-13 (0.378)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.328257	0.328257	0.378196	0.378196
Indene+H	0.214714	0.542971	0.247379	0.625574
C2H2+PhCH2	0.146502	0.689473	0.168789	0.794364
Phenyl+Allene	0.132044	0.821517	0.000000	0.794364
PhCHCCH2+H	0.0609574	0.882474	0.0702309	0.864595
PhCCH+CH3	0.0572446	0.939719	0.0659535	0.930548
PhCH2CCH+H	0.0407440	0.980463	0.0469425	0.977491
Ph+MeAc	0.00763489	0.988098	0.00879642	0.986287
PAH7+H	0.00694716	0.995045	0.00800405	0.994291
PhCCCH3+H	0.00267733	0.997722	0.00308464	0.997376
rad39	0.00150224	0.999224	0.00173078	0.999107
rad19anti	0.000315220	0.999539	0.000363175	0.999470
PAH9+H	0.000164386	0.999704	0.000189394	0.999659
rad19syn	7.45655e-05	0.999778	8.59091e-05	0.999745
rad38	6.50359e-05	0.999843	7.49299e-05	0.999820
rad30	3.82332e-05	0.999882	4.40497e-05	0.999864
rad35	3.25605e-05	0.999914	3.75140e-05	0.999902
rad54	2.39077e-05	0.999938	2.75448e-05	0.999929
PhcycC3H3_A+H	1.67306e-05	0.999955	1.92759e-05	0.999948
rad46	1.28371e-05	0.999968	1.47901e-05	0.999963
rad37	1.03715e-05	0.999978	1.19494e-05	0.999975
PAH3+H	4.83975e-06	0.999983	5.57602e-06	0.999981
PAH1+H	3.16887e-06	0.999986	3.65096e-06	0.999984
rad50	2.53500e-06	0.999989	2.92065e-06	0.999987
rad70	2.31279e-06	0.999991	2.66464e-06	0.999990
PAH10+CH3	2.25114e-06	0.999993	2.59361e-06	0.999993
rad67	1.57911e-06	0.999995	1.81935e-06	0.999994
rad55	1.19782e-06	0.999996	1.38006e-06	0.999996
rad60syn	1.15117e-06	0.999997	1.32630e-06	0.999997
rad60anti	6.62627e-07	0.999998	7.63433e-07	0.999998
rad59	6.18406e-07	0.999998	7.12482e-07	0.999999
rad62	3.93252e-07	0.999999	4.53078e-07	0.999999
rad34	3.40145e-07	0.999999	3.91892e-07	0.999999
rad51	2.38369e-07	0.999999	2.74633e-07	1.000000
rad52	1.25451e-07	1.000000	1.44535e-07	1.000000
rad53	7.80404e-08	1.000000	8.99129e-08	1.000000
rad43	6.37336e-08	1.000000	7.34295e-08	1.000000
rad56	3.84098e-08	1.000000	4.42533e-08	1.000000
rad64	2.61428e-08	1.000000	3.01199e-08	1.000000
rad58	1.20347e-08	1.000000	1.38656e-08	1.000000
rad42	9.67464e-09	1.000000	1.11465e-08	1.000000
rad65	7.50471e-09	1.000000	8.64638e-09	1.000000
rad68syn	4.04354e-09	1.000000	4.65870e-09	1.000000
PAH8+H	3.08736e-09	1.000000	3.55704e-09	1.000000
rad68anti	2.69715e-09	1.000000	3.10748e-09	1.000000
rad41	9.10252e-10	1.000000	1.04874e-09	1.000000
rad40syn	6.53835e-10	1.000000	7.53304e-10	1.000000
rad61	3.79380e-10	1.000000	4.37096e-10	1.000000
rad73	3.37894e-10	1.000000	3.89299e-10	1.000000
rad40anti	3.05537e-10	1.000000	3.52019e-10	1.000000
rad71	2.11150e-10	1.000000	2.43273e-10	1.000000
rad72	1.11745e-12	1.000000	1.28745e-12	1.000000
rad23	2.67713e-15	1.000000	3.08441e-15	1.000000
rad45	1.62769e-15	1.000000	1.87532e-15	1.000000
rad9	1.25138e-15	1.000000	1.44175e-15	1.000000
rad2	8.70028e-16	1.000000	1.00239e-15	1.000000
rad6	8.67838e-16	1.000000	9.99868e-16	1.000000
rad11	6.03146e-16	1.000000	6.94904e-16	1.000000
rad13	5.55337e-16	1.000000	6.39824e-16	1.000000
rad1	2.03409e-16	1.000000	2.34354e-16	1.000000
rad36	1.56461e-16	1.000000	1.80264e-16	1.000000
rad7	1.24102e-16	1.000000	1.42983e-16	1.000000
rad21	1.12703e-16	1.000000	1.29848e-16	1.000000
rad20	5.72530e-17	1.000000	6.59629e-17	1.000000
rad3	5.14341e-17	1.000000	5.92589e-17	1.000000

rad4	4.03027e-17	1.000000	4.64340e-17	1.00000
rad33	2.98576e-17	1.000000	3.43998e-17	1.00000
rad10	2.94898e-17	1.000000	3.39761e-17	1.00000
rad28	3.35309e-18	1.000000	3.86321e-18	1.00000
rad25	2.72797e-18	1.000000	3.14298e-18	1.00000
rad24	2.16988e-18	1.000000	2.49998e-18	1.00000
rad26	1.30937e-18	1.000000	1.50857e-18	1.00000
rad12	1.06574e-18	1.000000	1.22787e-18	1.00000
rad18	3.95810e-19	1.000000	4.56025e-19	1.00000
rad14	2.59084e-19	1.000000	2.98500e-19	1.00000
rad27	1.66794e-19	1.000000	1.92169e-19	1.00000
rad15	1.52912e-19	1.000000	1.76175e-19	1.00000
rad31	1.37107e-20	1.000000	1.57966e-20	1.00000
rad8	2.31129e-21	1.000000	2.66290e-21	1.00000
rad22	2.26948e-22	1.000000	2.61474e-22	1.00000
rad47	1.74352e-23	1.000000	2.00877e-23	1.00000
rad5	3.96931e-25	1.000000	4.57317e-25	1.00000

0.100000000E-07 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.50733e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.03336e-13 (0.268)
Formation of rad6	6.34764e-13 (0.352)	4.75183e-13 (0.315)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.417)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.417171	0.417171
Indene+H	0.168224	0.517107	0.201151	0.618322
Phenyl+Allene	0.163693	0.680800	0.000000	0.618322
C2H2+PhCH2	0.129445	0.810245	0.154782	0.773104
PhCHCCH2+H	0.0661470	0.876392	0.0790946	0.852199
PhCH2CCH+H	0.0526489	0.929041	0.0629537	0.915152
PhCCH+CH3	0.0518208	0.980862	0.0619641	0.977116
PAH7+H	0.00758545	0.988447	0.00907010	0.986186
Ph+MeAc	0.00700420	0.995451	0.00837514	0.994562
PhCCH3+H	0.00195097	0.997402	0.00233284	0.996894
rad39	0.00157581	0.998978	0.00188425	0.998779
rad19anti	0.000399579	0.999378	0.000477791	0.999257
PAH9+H	0.000204702	0.999582	0.000244769	0.999501
rad19syn	0.000118863	0.999701	0.000142129	0.999643
rad38	8.27680e-05	0.999784	9.89685e-05	0.999742
rad54	4.05005e-05	0.999824	4.84277e-05	0.999791
rad35	3.92969e-05	0.999864	4.69886e-05	0.999838
rad30	3.73116e-05	0.999901	4.46148e-05	0.999882
PhcycC3H3_A+H	3.27086e-05	0.999934	3.91108e-05	0.999922
rad46	1.78869e-05	0.999952	2.13880e-05	0.999943
rad37	1.16239e-05	0.999963	1.38991e-05	0.999957
PAH3+H	6.95966e-06	0.999970	8.32193e-06	0.999965
PAH1+H	6.04571e-06	0.999976	7.22906e-06	0.999972
rad50	4.57121e-06	0.999981	5.46594e-06	0.999978
rad70	4.07150e-06	0.999985	4.86843e-06	0.999983
PAH10+CH3	3.83957e-06	0.999989	4.59109e-06	0.999987
rad67	2.96796e-06	0.999992	3.54889e-06	0.999991
rad55	2.19501e-06	0.999994	2.62464e-06	0.999993
rad60syn	1.37645e-06	0.999995	1.64587e-06	0.999995
rad59	8.52866e-07	0.999996	1.01981e-06	0.999996
rad60anti	8.03342e-07	0.999997	9.60578e-07	0.999997
rad34	6.59901e-07	0.999998	7.89063e-07	0.999998
rad62	5.91358e-07	0.999998	7.07106e-07	0.999999
rad51	5.25705e-07	0.999999	6.28605e-07	0.999999
rad52	2.50703e-07	0.999999	2.99775e-07	0.999999
rad53	1.90238e-07	0.999999	2.27474e-07	1.000000
rad56	1.09448e-07	0.999999	1.30871e-07	1.000000
rad43	7.76164e-08	0.999999	9.28086e-08	1.000000
rad64	5.85550e-08	0.999999	7.00159e-08	1.000000
rad58	2.24147e-08	0.999999	2.68020e-08	1.000000
rad42	1.82035e-08	0.999999	2.17665e-08	1.000000
rad65	1.63703e-08	0.999999	1.95744e-08	1.000000
rad68syn	1.10175e-08	0.999999	1.31740e-08	1.000000
PAH8+H	1.09227e-08	0.999999	1.30606e-08	1.000000
rad68anti	7.31621e-09	0.999999	8.74827e-09	1.000000
rad40syn	2.07794e-09	0.999999	2.48466e-09	1.000000
rad41	1.48024e-09	0.999999	1.76997e-09	1.000000
rad73	1.26651e-09	0.999999	1.51441e-09	1.000000
rad61	1.03672e-09	0.999999	1.23964e-09	1.000000
rad40anti	1.01429e-09	0.999999	1.21282e-09	1.000000
rad71	9.17535e-10	0.999999	1.09712e-09	1.000000

rad72	7.08917e-12	0.999999	8.47678e-12	1.00000
rad11	1.50132e-15	0.999999	1.79518e-15	1.00000
rad23	1.37431e-15	0.999999	1.64331e-15	1.00000
rad6	1.26794e-15	0.999999	1.51612e-15	1.00000
rad9	9.26924e-16	0.999999	1.10835e-15	1.00000
rad45	8.83423e-16	0.999999	1.05634e-15	1.00000
rad13	6.46649e-16	0.999999	7.73222e-16	1.00000
rad7	4.83441e-16	0.999999	5.78066e-16	1.00000
rad2	2.57955e-16	0.999999	3.08445e-16	1.00000
rad21	8.79041e-17	0.999999	1.05110e-16	1.00000
rad36	8.56160e-17	0.999999	1.02374e-16	1.00000
rad1	6.24088e-17	0.999999	7.46243e-17	1.00000
rad20	4.28302e-17	0.999999	5.12134e-17	1.00000
rad10	2.67830e-17	0.999999	3.20253e-17	1.00000
rad33	2.25859e-17	0.999999	2.70068e-17	1.00000
rad3	2.05794e-17	0.999999	2.46075e-17	1.00000
rad4	1.63117e-17	0.999999	1.95044e-17	1.00000
rad28	4.12598e-18	0.999999	4.93357e-18	1.00000
rad25	3.12053e-18	0.999999	3.73132e-18	1.00000
rad24	1.65803e-18	0.999999	1.98256e-18	1.00000
rad18	1.63210e-18	0.999999	1.95156e-18	1.00000
rad26	1.33743e-18	0.999999	1.59920e-18	1.00000
rad12	1.03518e-18	0.999999	1.23781e-18	1.00000
rad14	2.44012e-19	0.999999	2.91773e-19	1.00000
rad15	1.68551e-19	0.999999	2.01542e-19	1.00000
rad27	1.00941e-19	0.999999	1.20699e-19	1.00000
rad31	8.42038e-21	0.999999	1.00685e-20	1.00000
rad8	5.36818e-21	0.999999	6.41893e-21	1.00000
rad22	2.44701e-21	0.999999	2.92597e-21	1.00000
rad47	3.89980e-23	0.999999	4.66312e-23	1.00000
rad5	1.66457e-24	0.999999	1.99038e-24	1.00000

0.100000000E-07 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.54148e-12 (1.00)	2.05338e-12 (1.00)
Formation of rad11	7.22991e-13 (0.284)	5.03422e-13 (0.245)
Formation of rad6	8.84215e-13 (0.348)	6.15682e-13 (0.300)
H-abstraction	9.34273e-13 (0.368)	9.34273e-13 (0.455)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.367610	0.367610	0.454993	0.454993
Phenyl+Allene	0.192054	0.559664	0.000000	0.454993
Indene+H	0.131421	0.691086	0.162661	0.617654
C2H2+PhCH2	0.111295	0.802381	0.137750	0.755405
PhCHCCH2+H	0.0692296	0.871610	0.0856859	0.841091
PhCH2CCH+H	0.0636260	0.935236	0.0787507	0.919842
PhCCH+CH3	0.0461559	0.981392	0.0571276	0.976969
PAH7+H	0.00794566	0.989338	0.00983443	0.986804
Ph+MeAc	0.00637082	0.995709	0.00788521	0.994689
rad39	0.00158196	0.997291	0.00195800	0.996647
PhCCCH3+H	0.00142376	0.998714	0.00176219	0.998409
rad19anti	0.000475489	0.999190	0.000588514	0.998997
PAH9+H	0.000242131	0.999432	0.000299688	0.999297
rad19syn	0.000174660	0.999607	0.000216178	0.999513
rad38	9.98860e-05	0.999707	0.000123629	0.999637
rad54	6.26274e-05	0.999769	7.75141e-05	0.999714
PhcycC3H3_A+H	5.74351e-05	0.999827	7.10879e-05	0.999786
rad35	4.53516e-05	0.999872	5.61319e-05	0.999842
rad30	3.53185e-05	0.999907	4.37139e-05	0.999885
rad46	2.33611e-05	0.999931	2.89142e-05	0.999914
rad37	1.29873e-05	0.999944	1.60744e-05	0.999930
PAH1+H	1.02825e-05	0.999954	1.27267e-05	0.999943
PAH3+H	9.32004e-06	0.999963	1.15354e-05	0.999955
rad50	7.49585e-06	0.999971	9.27759e-06	0.999964
rad70	6.43021e-06	0.999977	7.95868e-06	0.999972
PAH10+CH3	6.07786e-06	0.999983	7.52262e-06	0.999979
rad67	4.99567e-06	0.999988	6.18315e-06	0.999986
rad55	3.63003e-06	0.999992	4.49291e-06	0.999990
rad60syn	1.56340e-06	0.999993	1.93503e-06	0.999992
rad34	1.13462e-06	0.999995	1.40432e-06	0.999993
rad59	1.09806e-06	0.999996	1.35907e-06	0.999995
rad51	1.02620e-06	0.999997	1.27014e-06	0.999996
rad60anti	9.23688e-07	0.999998	1.14325e-06	0.999997
rad62	8.25901e-07	0.999998	1.02222e-06	0.999998
rad52	4.48900e-07	0.999999	5.55607e-07	0.999999
rad53	4.02868e-07	0.999999	4.98632e-07	0.999999
rad56	2.64598e-07	1.000000	3.27496e-07	1.000000

rad64	1.13755e-07	1.000000	1.40795e-07	1.000000
rad43	8.95932e-08	1.000000	1.10890e-07	1.000000
rad58	3.75497e-08	1.000000	4.64755e-08	1.000000
rad65	3.15601e-08	1.000000	3.90621e-08	1.000000
PAH8+H	3.15023e-08	1.000000	3.89905e-08	1.000000
rad42	3.09037e-08	1.000000	3.82497e-08	1.000000
rad68syn	2.53721e-08	1.000000	3.14033e-08	1.000000
rad68anti	1.67834e-08	1.000000	2.07729e-08	1.000000
rad40syn	5.46373e-09	1.000000	6.76250e-09	1.000000
rad73	3.88972e-09	1.000000	4.81434e-09	1.000000
rad71	3.20241e-09	1.000000	3.96364e-09	1.000000
rad40anti	2.76933e-09	1.000000	3.42762e-09	1.000000
rad61	2.41929e-09	1.000000	2.99437e-09	1.000000
rad41	2.20456e-09	1.000000	2.72860e-09	1.000000
rad72	3.39621e-11	1.000000	4.20352e-11	1.000000
rad11	2.12952e-15	1.000000	2.63573e-15	1.000000
rad6	2.04825e-15	1.000000	2.53514e-15	1.000000
rad7	1.09746e-15	1.000000	1.35834e-15	1.000000
rad23	7.23827e-16	1.000000	8.95882e-16	1.000000
rad9	6.37272e-16	1.000000	7.88755e-16	1.000000
rad13	4.91946e-16	1.000000	6.08887e-16	1.000000
rad45	4.85614e-16	1.000000	6.01050e-16	1.000000
rad2	8.14171e-17	1.000000	1.00771e-16	1.000000
rad21	5.91330e-17	1.000000	7.31895e-17	1.000000
rad36	4.74602e-17	1.000000	5.87419e-17	1.000000
rad20	2.63323e-17	1.000000	3.25917e-17	1.000000
rad10	2.44362e-17	1.000000	3.02448e-17	1.000000
rad1	2.01871e-17	1.000000	2.49857e-17	1.000000
rad33	1.50408e-17	1.000000	1.86161e-17	1.000000
rad3	8.71845e-18	1.000000	1.07909e-17	1.000000
rad4	6.97292e-18	1.000000	8.63040e-18	1.000000
rad28	6.66653e-18	1.000000	8.25118e-18	1.000000
rad18	3.07354e-18	1.000000	3.80413e-18	1.000000
rad25	2.61840e-18	1.000000	3.24081e-18	1.000000
rad26	1.53817e-18	1.000000	1.90381e-18	1.000000
rad24	1.21061e-18	1.000000	1.49838e-18	1.000000
rad12	9.25054e-19	1.000000	1.14494e-18	1.000000
rad15	6.01041e-19	1.000000	7.43912e-19	1.000000
rad14	1.73625e-19	1.000000	2.14896e-19	1.000000
rad27	4.96123e-20	1.000000	6.14053e-20	1.000000
rad22	2.79016e-20	1.000000	3.45339e-20	1.000000
rad8	7.86598e-21	1.000000	9.73573e-21	1.000000
rad31	5.35121e-21	1.000000	6.62325e-21	1.000000
rad47	7.66887e-23	1.000000	9.49183e-23	1.000000
rad5	7.51096e-24	1.000000	9.29634e-24	1.000000

0.100000000E-07 Pa, 1400.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.47024e-12 (1.00)	2.71984e-12 (1.00)
Formation of rad11	9.43269e-13 (0.272)	6.11768e-13 (0.225)
Formation of rad6	1.19194e-12 (0.343)	7.73043e-13 (0.284)
H-abstraction	1.33503e-12 (0.385)	1.33503e-12 (0.491)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.490849	0.490849
Phenyl+Allene	0.216237	0.600946	0.00000	0.490849
Indene+H	0.102753	0.703699	0.131102	0.621951
C2H2+PhCH2	0.0940337	0.797733	0.119977	0.741928
PhCH2CCH+H	0.0730480	0.870781	0.0932017	0.835129
PhCHCCH2+H	0.0704361	0.941217	0.0898693	0.924998
PhCCH+CH3	0.0407709	0.981988	0.0520195	0.977018
PAH7+H	0.00808062	0.990068	0.0103100	0.987328
Ph+MeAc	0.00578254	0.995851	0.00737791	0.994706
rad39	0.00153900	0.997390	0.00196361	0.996669
PhCCCH3+H	0.00104907	0.998439	0.00133851	0.998008
rad19anti	0.000537563	0.998977	0.000685873	0.998694
PAH9+H	0.000275092	0.999252	0.000350989	0.999045
rad19syn	0.000241019	0.999493	0.000307515	0.999352
rad38	0.000115616	0.999608	0.000147513	0.999500
PhcycC3H3_A+H	9.27188e-05	0.999701	0.000118299	0.999618
rad54	9.02066e-05	0.999791	0.000115094	0.999733
rad35	5.05796e-05	0.999842	6.45344e-05	0.999798
rad30	3.27889e-05	0.999875	4.18352e-05	0.999840
rad46	2.89889e-05	0.999904	3.69868e-05	0.999877
PAH1+H	1.59963e-05	0.999920	2.04096e-05	0.999897
rad37	1.43563e-05	0.999934	1.83172e-05	0.999915
PAH3+H	1.18378e-05	0.999946	1.51038e-05	0.999930

rad50	1.13924e-05	0.999957	1.45355e-05	0.999945
rad70	9.33021e-06	0.999967	1.19044e-05	0.999957
PAH10+CH3	9.00294e-06	0.999976	1.14868e-05	0.999968
rad67	7.68554e-06	0.999983	9.80595e-06	0.999978
rad55	5.54137e-06	0.999989	7.07023e-06	0.999985
rad51	1.81654e-06	0.999991	2.31772e-06	0.999988
rad34	1.77488e-06	0.999992	2.26456e-06	0.999990
rad60syn	1.71203e-06	0.999994	2.18438e-06	0.999992
rad59	1.34390e-06	0.999995	1.71468e-06	0.999994
rad62	1.09238e-06	0.999997	1.39377e-06	0.999995
rad60anti	1.02264e-06	0.999998	1.30479e-06	0.999996
rad53	7.63459e-07	0.999998	9.74098e-07	0.999997
rad52	7.36190e-07	0.999999	9.39297e-07	0.999998
rad56	5.61676e-07	1.000000	7.16641e-07	0.999999
rad64	1.97836e-07	1.000000	2.52418e-07	0.999999
rad43	1.00004e-07	1.000000	1.27595e-07	0.999999
PAH8+H	7.73009e-08	1.000000	9.86282e-08	1.000000
rad58	5.80225e-08	1.000000	7.40306e-08	1.000000
rad65	5.51354e-08	1.000000	7.03469e-08	1.000000
rad68syn	5.11875e-08	1.000000	6.53098e-08	1.000000
rad42	4.85214e-08	1.000000	6.19082e-08	1.000000
rad68anti	3.37456e-08	1.000000	4.30559e-08	1.000000
rad40syn	1.23711e-08	1.000000	1.57842e-08	1.000000
rad73	1.01769e-08	1.000000	1.29847e-08	1.000000
rad71	9.36208e-09	1.000000	1.19451e-08	1.000000
rad40anti	6.47926e-09	1.000000	8.26688e-09	1.000000
rad61	4.96370e-09	1.000000	6.33318e-09	1.000000
rad41	3.08784e-09	1.000000	3.93976e-09	1.000000
rad72	1.29425e-10	1.000000	1.65133e-10	1.000000
rad6	4.02835e-15	1.000000	5.13973e-15	1.000000
rad11	1.92509e-15	1.000000	2.45621e-15	1.000000
rad7	1.43213e-15	1.000000	1.82725e-15	1.000000
rad9	4.21289e-16	1.000000	5.37521e-16	1.000000
rad23	3.91470e-16	1.000000	4.99476e-16	1.000000
rad13	3.13830e-16	1.000000	4.00415e-16	1.000000
rad45	2.70647e-16	1.000000	3.45317e-16	1.000000
rad21	3.81060e-17	1.000000	4.86193e-17	1.000000
rad2	2.73870e-17	1.000000	3.49429e-17	1.000000
rad36	2.67056e-17	1.000000	3.40735e-17	1.000000
rad10	1.66122e-17	1.000000	2.11955e-17	1.000000
rad20	1.53040e-17	1.000000	1.95263e-17	1.000000
rad28	1.26771e-17	1.000000	1.61747e-17	1.000000
rad33	9.75772e-18	1.000000	1.24499e-17	1.000000
rad1	6.91132e-18	1.000000	8.81814e-18	1.000000
rad3	3.96423e-18	1.000000	5.05795e-18	1.000000
rad4	3.18235e-18	1.000000	4.06034e-18	1.000000
rad18	3.17460e-18	1.000000	4.05046e-18	1.000000
rad25	1.93942e-18	1.000000	2.47449e-18	1.000000
rad15	1.80771e-18	1.000000	2.30645e-18	1.000000
rad26	1.78804e-18	1.000000	2.28136e-18	1.000000
rad24	8.67708e-19	1.000000	1.10711e-18	1.000000
rad12	7.86877e-19	1.000000	1.00397e-18	1.000000
rad22	2.39641e-19	1.000000	3.05757e-19	1.000000
rad14	1.10830e-19	1.000000	1.41408e-19	1.000000
rad27	2.35634e-20	1.000000	3.00644e-20	1.000000
rad8	9.26462e-21	1.000000	1.18207e-20	1.000000
rad31	3.51109e-21	1.000000	4.47978e-21	1.000000
rad47	1.36054e-22	1.000000	1.73591e-22	1.000000
rad5	3.04829e-23	1.000000	3.88930e-23	1.000000

0.100000000E-07 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.61271e-12 (1.00)	3.52361e-12 (1.00)
Formation of rad11	1.20217e-12 (0.261)	7.28782e-13 (0.207)
Formation of rad6	1.56360e-12 (0.339)	9.47887e-13 (0.269)
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.524)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.524162	0.524162
Phenyl+Allene	0.236109	0.636511	0.000000	0.524162
Indene+H	0.0806435	0.717155	0.105570	0.629731
PhCH2CCH+H	0.0806387	0.797793	0.105563	0.735294
C2H2+PhCH2	0.0787062	0.876500	0.103033	0.838328
PhCHCCH2+H	0.0701571	0.946657	0.0918421	0.930170
PhCCH+CH3	0.0359368	0.982594	0.0470444	0.977214
PAH7+H	0.00805110	0.990645	0.0105396	0.987754
Ph+MeAc	0.00526035	0.995905	0.00688624	0.994640

rad39	0.00146497	0.997370	0.00191777	0.996558
PhCCCH3+H	0.000785539	0.998156	0.00102834	0.997586
rad19anti	0.000582991	0.998739	0.000763188	0.998349
rad19syn	0.000316567	0.999055	0.000414413	0.998764
PAH9+H	0.000302845	0.999358	0.000396450	0.999160
PhcycC3H3_A+H	0.000139913	0.999498	0.000183158	0.999343
rad38	0.000129499	0.999627	0.000169526	0.999513
rad54	0.000122808	0.999750	0.000160767	0.999674
rad35	5.49599e-05	0.999805	7.19472e-05	0.999746
rad46	3.45380e-05	0.999840	4.52132e-05	0.999791
rad30	3.01156e-05	0.999870	3.94239e-05	0.999830
PAH1+H	2.31901e-05	0.999893	3.03579e-05	0.999861
rad50	1.62766e-05	0.999909	2.13074e-05	0.999882
rad37	1.56192e-05	0.999925	2.04470e-05	0.999902
PAH3+H	1.44553e-05	0.999939	1.89232e-05	0.999921
rad70	1.26613e-05	0.999952	1.65747e-05	0.999938
PAH10+CH3	1.25752e-05	0.999965	1.64620e-05	0.999954
rad67	1.09793e-05	0.999976	1.43728e-05	0.999969
rad55	7.93592e-06	0.999983	1.03888e-05	0.999979
rad51	2.96749e-06	0.999986	3.88470e-06	0.999983
rad34	2.57549e-06	0.999989	3.37153e-06	0.999986
rad60syn	1.82792e-06	0.999991	2.39290e-06	0.999989
rad59	1.58467e-06	0.999992	2.07447e-06	0.999991
rad62	1.38706e-06	0.999994	1.81579e-06	0.999993
rad53	1.32204e-06	0.999995	1.73067e-06	0.999994
rad52	1.12378e-06	0.999996	1.47114e-06	0.999996
rad60anti	1.10268e-06	0.999997	1.44350e-06	0.999997
rad56	1.07222e-06	0.999998	1.40364e-06	0.999999
rad64	3.15087e-07	0.999999	4.12476e-07	0.999999
PAH8+H	1.66252e-07	0.999999	2.17639e-07	0.999999
rad43	1.09523e-07	0.999999	1.43375e-07	0.999999
rad68syn	9.28291e-08	0.999999	1.21521e-07	0.999999
rad65	8.88724e-08	0.999999	1.16342e-07	1.000000
rad58	8.42069e-08	0.999999	1.10234e-07	1.000000
rad42	7.16663e-08	0.999999	9.38173e-08	1.000000
rad68anti	6.10163e-08	0.999999	7.98757e-08	1.000000
rad40syn	2.48114e-08	0.999999	3.24802e-08	1.000000
rad71	2.35639e-08	0.999999	3.08472e-08	1.000000
rad73	2.32861e-08	0.999999	3.04835e-08	1.000000
rad40anti	1.33700e-08	0.999999	1.75025e-08	1.000000
rad61	9.14968e-09	0.999999	1.19777e-08	1.000000
rad41	4.14357e-09	0.999999	5.42427e-09	1.000000
rad72	4.05222e-10	0.999999	5.30469e-10	1.000000
rad6	8.50110e-15	0.999999	1.11287e-14	1.000000
rad11	1.35769e-15	0.999999	1.77733e-15	1.000000
rad7	1.25059e-15	0.999999	1.63713e-15	1.000000
rad9	2.73205e-16	0.999999	3.57650e-16	1.000000
rad23	2.18336e-16	0.999999	2.85821e-16	1.000000
rad13	1.89899e-16	0.999999	2.48594e-16	1.000000
rad45	1.53752e-16	0.999999	2.01275e-16	1.000000
rad28	2.43765e-17	0.999999	3.19110e-17	1.000000
rad21	2.42952e-17	0.999999	3.18045e-17	1.000000
rad36	1.53090e-17	0.999999	2.00409e-17	1.000000
rad2	9.69382e-18	0.999999	1.26900e-17	1.000000
rad10	8.80119e-18	0.999999	1.15215e-17	1.000000
rad20	8.79172e-18	0.999999	1.15092e-17	1.000000
rad33	6.33589e-18	0.999999	8.29424e-18	1.000000
rad15	2.99218e-18	0.999999	3.91702e-18	1.000000
rad1	2.49128e-18	0.999999	3.26130e-18	1.000000
rad18	2.34697e-18	0.999999	3.07239e-18	1.000000
rad26	1.91937e-18	0.999999	2.51262e-18	1.000000
rad3	1.86453e-18	0.999999	2.44083e-18	1.000000
rad4	1.50486e-18	0.999999	1.96999e-18	1.000000
rad25	1.37831e-18	0.999999	1.80433e-18	1.000000
rad22	1.27466e-18	0.999999	1.66864e-18	1.000000
rad12	6.49250e-19	0.999999	8.49924e-19	1.000000
rad24	6.18581e-19	0.999999	8.09777e-19	1.000000
rad14	6.98939e-20	0.999999	9.14971e-20	1.000000
rad27	1.15740e-20	0.999999	1.51513e-20	1.000000
rad8	9.76883e-21	0.999999	1.27883e-20	1.000000
rad31	2.37694e-21	0.999999	3.11163e-21	1.000000
rad47	2.21852e-22	0.999999	2.90423e-22	1.000000
rad5	9.58595e-23	0.999999	1.25489e-22	1.000000

0.100000000E-07 Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.27400e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.05237e-12 (0.168)

Formation of rad6	2.80256e-12 (0.325)	1.44565e-12 (0.230)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.602)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.601845	0.601845
Phenyl+Allene	0.272047	0.710162	0.00000	0.601845
PhCH2CCH+H	0.0933387	0.803501	0.128221	0.730066
PhCHCCH2+H	0.0656327	0.869134	0.0901606	0.820227
C2H2+PhCH2	0.0475978	0.916731	0.0653858	0.885612
Indene+H	0.0395372	0.956269	0.0543127	0.939925
PhCCH+CH3	0.0276514	0.983920	0.0379853	0.977910
PAH7+H	0.00712605	0.991046	0.00978916	0.987700
Ph+MeAc	0.00488545	0.995931	0.00671122	0.994411
rad39	0.00123375	0.997165	0.00169483	0.996106
rad19anti	0.000564116	0.997729	0.000774933	0.996881
rad19syn	0.000506158	0.998235	0.000695318	0.997576
PhCCH3+H	0.000461483	0.998697	0.000633946	0.998210
PhcycC3H3_A+H	0.000354596	0.999052	0.000487115	0.998697
PAH9+H	0.000266731	0.999318	0.000366412	0.999063
rad54	0.000215004	0.999533	0.000295354	0.999359
rad38	0.000142764	0.999676	0.000196118	0.999555
rad35	4.88397e-05	0.999725	6.70919e-05	0.999622
PAH1+H	4.24056e-05	0.999767	5.82532e-05	0.999680
rad46	3.79670e-05	0.999805	5.21559e-05	0.999732
rad50	2.38701e-05	0.999829	3.27908e-05	0.999765
rad30	2.30179e-05	0.999852	3.16201e-05	0.999797
PAH10+CH3	2.22275e-05	0.999874	3.05343e-05	0.999827
rad70	2.20506e-05	0.999896	3.02913e-05	0.999858
PAH3+H	2.08052e-05	0.999917	2.85805e-05	0.999886
rad55	1.72026e-05	0.999934	2.36314e-05	0.999910
rad67	1.69163e-05	0.999951	2.32382e-05	0.999933
rad37	1.61425e-05	0.999968	2.21752e-05	0.999955
rad51	6.11253e-06	0.999974	8.39689e-06	0.999964
rad34	5.25680e-06	0.999979	7.22134e-06	0.999971
rad53	4.39527e-06	0.999983	6.03786e-06	0.999977
rad56	3.99314e-06	0.999987	5.48546e-06	0.999982
rad62	2.35598e-06	0.999990	3.23645e-06	0.999986
rad59	2.06481e-06	0.999992	2.83647e-06	0.999988
rad52	2.03181e-06	0.999994	2.79112e-06	0.999991
rad60syn	1.94292e-06	0.999996	2.66902e-06	0.999994
rad60anti	1.30713e-06	0.999997	1.79563e-06	0.999996
rad64	7.88600e-07	0.999998	1.08332e-06	0.999997
PAH8+H	5.90480e-07	0.999998	8.11153e-07	0.999998
rad68syn	2.81742e-07	0.999999	3.87034e-07	0.999998
rad68anti	1.82569e-07	0.999999	2.50799e-07	0.999998
rad65	1.74382e-07	0.999999	2.39552e-07	0.999998
rad42	1.70585e-07	0.999999	2.34336e-07	0.999999
rad58	1.57351e-07	0.999999	2.16156e-07	0.999999
rad43	1.31435e-07	0.999999	1.80554e-07	0.999999
rad71	1.24696e-07	1.000000	1.71297e-07	0.999999
rad73	9.95914e-08	1.000000	1.36810e-07	0.999999
rad40syn	8.39457e-08	1.000000	1.15318e-07	1.000000
rad40anti	5.01024e-08	1.000000	6.88266e-08	1.000000
rad61	2.64237e-08	1.000000	3.62987e-08	1.000000
rad41	7.91859e-09	1.000000	1.08779e-08	1.000000
rad72	3.69499e-09	1.000000	5.07588e-09	1.000000
rad6	2.62815e-14	1.000000	3.61033e-14	1.000000
rad7	2.29292e-16	1.000000	3.14982e-16	1.000000
rad11	1.74057e-16	1.000000	2.39105e-16	1.000000
rad28	6.31559e-17	1.000000	8.67580e-17	1.000000
rad23	4.54212e-17	1.000000	6.23960e-17	1.000000
rad9	2.21519e-17	1.000000	3.04305e-17	1.000000
rad13	1.60832e-17	1.000000	2.20937e-17	1.000000
rad45	1.32471e-17	1.000000	1.81978e-17	1.000000
rad22	8.40659e-18	1.000000	1.15482e-17	1.000000
rad36	2.29311e-18	1.000000	3.15009e-18	1.000000
rad21	1.98012e-18	1.000000	2.72012e-18	1.000000
rad26	1.29833e-18	1.000000	1.78353e-18	1.000000
rad15	1.11834e-18	1.000000	1.53628e-18	1.000000
rad10	7.65928e-19	1.000000	1.05217e-18	1.000000
rad20	6.44623e-19	1.000000	8.85528e-19	1.000000
rad33	5.54004e-19	1.000000	7.61045e-19	1.000000
rad18	2.99781e-19	1.000000	4.11816e-19	1.000000
rad2	2.57310e-19	1.000000	3.53471e-19	1.000000
rad25	1.43077e-19	1.000000	1.96547e-19	1.000000
rad12	7.47122e-20	1.000000	1.02634e-19	1.000000
rad1	7.07251e-20	1.000000	9.71562e-20	1.000000
rad3	6.46297e-20	1.000000	8.87830e-20	1.000000
rad24	6.07027e-20	1.000000	8.33884e-20	1.000000

rad4	4.14090e-20	1.000000	5.68844e-20	1.000000
rad14	7.58528e-21	1.000000	1.04200e-20	1.000000
rad8	2.76592e-21	1.000000	3.79959e-21	1.000000
rad27	6.88422e-22	1.000000	9.45698e-22	1.000000
rad5	5.43370e-22	1.000000	7.46437e-22	1.000000
rad47	1.43456e-22	1.000000	1.97067e-22	1.000000

0.100000000E-07 Pa, 2000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.44111e-11 (1.00)	1.02930e-11 (1.00)
Formation of rad11	3.16882e-12 (0.220)	1.47449e-12 (0.143)
Formation of rad6	4.53302e-12 (0.315)	2.10927e-12 (0.205)
H-abstraction	6.70922e-12 (0.466)	6.70922e-12 (0.652)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.465560	0.465560	0.651825	0.651825
Phenyl+Allene	0.285759	0.751319	0.000000	0.651825
PhCH2CCH+H	0.0971788	0.848498	0.136059	0.787884
PhCHCCH2+H	0.0592993	0.907797	0.0830241	0.870908
C2H2+PhCH2	0.0319942	0.939791	0.0447948	0.915703
Indene+H	0.0233046	0.963096	0.0326284	0.948331
PhCCH+CH3	0.0216466	0.984742	0.0303071	0.978638
PAH7+H	0.00659328	0.991336	0.00923114	0.987869
Ph+MeAc	0.00420938	0.995545	0.00589349	0.993763
rad39	0.00101472	0.996560	0.00142069	0.995183
rad19syn	0.000746783	0.997306	0.00104557	0.996229
PhycC3H3_A+H	0.000656335	0.997963	0.000918925	0.997148
rad19anti	0.000529228	0.998492	0.000740966	0.997889
rad54	0.000330237	0.998822	0.000462359	0.998351
PhCCCH3+H	0.000291962	0.999114	0.000408772	0.998760
PAH9+H	0.000279546	0.999394	0.000391387	0.999151
rad38	0.000156414	0.999550	0.000218994	0.999370
PAH1+H	6.96990e-05	0.999620	9.75848e-05	0.999468
rad35	5.18637e-05	0.999672	7.26137e-05	0.999541
rad46	4.57412e-05	0.999717	6.40416e-05	0.999605
rad50	3.87497e-05	0.999756	5.42530e-05	0.999659
PAH10+CH3	3.34470e-05	0.999790	4.68285e-05	0.999706
rad70	3.20125e-05	0.999822	4.48203e-05	0.999751
rad55	2.86889e-05	0.999850	4.01669e-05	0.999791
PAH3+H	2.79049e-05	0.999878	3.90694e-05	0.999830
rad67	2.51584e-05	0.999903	3.52238e-05	0.999865
rad30	1.88901e-05	0.999922	2.64479e-05	0.999891
rad37	1.66057e-05	0.999939	2.32494e-05	0.999915
rad51	1.22963e-05	0.999951	1.72160e-05	0.999932
rad56	1.03249e-05	0.999961	1.44559e-05	0.999946
rad53	9.90974e-06	0.999971	1.38745e-05	0.999960
rad34	8.56178e-06	0.999980	1.19873e-05	0.999972
rad52	3.64112e-06	0.999984	5.09788e-06	0.999977
rad62	3.41505e-06	0.999987	4.78139e-06	0.999982
rad59	2.58714e-06	0.999990	3.62224e-06	0.999986
rad60syn	2.06844e-06	0.999992	2.89599e-06	0.999989
PAH8+H	1.81455e-06	0.999993	2.54053e-06	0.999991
rad64	1.47576e-06	0.999995	2.06619e-06	0.999993
rad60anti	1.42207e-06	0.999996	1.99102e-06	0.999995
rad68syn	6.53892e-07	0.999997	9.15510e-07	0.999996
rad71	4.98025e-07	0.999998	6.97277e-07	0.999997
rad68anti	4.21792e-07	0.999998	5.90544e-07	0.999997
rad73	3.38736e-07	0.999998	4.74260e-07	0.999998
rad65	3.37785e-07	0.999999	4.72930e-07	0.999998
rad42	3.12138e-07	0.999999	4.37019e-07	0.999999
rad58	2.75720e-07	0.999999	3.86032e-07	0.999999
rad40syn	2.27523e-07	0.999999	3.18551e-07	1.000000
rad43	1.62531e-07	1.000000	2.27558e-07	1.000000
rad40anti	1.42660e-07	1.000000	1.99737e-07	1.000000
rad61	5.98888e-08	1.000000	8.38493e-08	1.000000
rad72	2.09307e-08	1.000000	2.93048e-08	1.000000
rad41	1.34670e-08	1.000000	1.88550e-08	1.000000
rad6	5.83197e-15	1.000000	8.16523e-15	1.000000
rad7	5.24970e-17	1.000000	7.35005e-17	1.000000
rad11	4.12472e-17	1.000000	5.77497e-17	1.000000
rad23	2.97669e-17	1.000000	4.16762e-17	1.000000
rad28	2.01426e-17	1.000000	2.82014e-17	1.000000
rad9	7.53768e-18	1.000000	1.05534e-17	1.000000
rad13	4.89589e-18	1.000000	6.85467e-18	1.000000
rad45	4.01913e-18	1.000000	5.62714e-18	1.000000
rad22	2.64941e-18	1.000000	3.70939e-18	1.000000
rad21	7.16422e-19	1.000000	1.00305e-18	1.000000

rad36	7.12622e-19	1.000000	9.97735e-19	1.00000
rad15	3.98237e-19	1.000000	5.57564e-19	1.00000
rad26	3.09793e-19	1.000000	4.33739e-19	1.00000
rad33	2.26331e-19	1.000000	3.16884e-19	1.00000
rad20	1.89431e-19	1.000000	2.65220e-19	1.00000
rad10	1.13995e-19	1.000000	1.59603e-19	1.00000
rad18	6.66195e-20	1.000000	9.32730e-20	1.00000
rad25	5.79819e-20	1.000000	8.11799e-20	1.00000
rad12	4.14756e-20	1.000000	5.80694e-20	1.00000
rad2	3.39772e-20	1.000000	4.75712e-20	1.00000
rad24	2.85159e-20	1.000000	3.99249e-20	1.00000
rad3	1.63328e-20	1.000000	2.28674e-20	1.00000
rad4	1.03950e-20	1.000000	1.45539e-20	1.00000
rad1	9.68367e-21	1.000000	1.35580e-20	1.00000
rad14	2.92675e-21	1.000000	4.09771e-21	1.00000
rad8	2.34712e-21	1.000000	3.28617e-21	1.00000
rad5	3.72758e-22	1.000000	5.21894e-22	1.00000
rad47	2.86742e-22	1.000000	4.01464e-22	1.00000
rad27	1.89904e-22	1.000000	2.65882e-22	1.00000

0.100000000E-07 Pa, 2250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.23655e-11 (1.00)	1.58437e-11 (1.00)
Formation of rad11	4.62280e-12 (0.207)	1.98925e-12 (0.126)
Formation of rad6	6.82518e-12 (0.305)	2.93696e-12 (0.185)
H-abstraction	1.09175e-11 (0.488)	1.09175e-11 (0.689)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.689074	0.689074
Phenyl+Allene	0.291600	0.779740	0.000000	0.689074
PhCH2CCH+H	0.0967415	0.876482	0.136563	0.825637
PhCHCCH2+H	0.0532744	0.929756	0.0752040	0.900841
C2H2+PhCH2	0.0232642	0.953020	0.0328403	0.933682
PhCCH+CH3	0.0176492	0.970669	0.0249142	0.958596
Indene+H	0.0145378	0.985207	0.0205221	0.979118
PAH7+H	0.00604332	0.991251	0.00853097	0.987649
Ph+MeAc	0.00373478	0.994985	0.00527212	0.992921
PhcycC3H3_A+H	0.00104439	0.996030	0.00147430	0.994395
rad19syn	0.000992650	0.997022	0.00140125	0.995797
rad39	0.000833753	0.997856	0.00117695	0.996974
rad19anti	0.000463520	0.998320	0.000654319	0.997628
rad54	0.000448432	0.998768	0.000633020	0.998261
PAH9+H	0.000276004	0.999044	0.000389615	0.998651
PhCCH3+H	0.000209665	0.999254	0.000295970	0.998946
rad38	0.000160719	0.999414	0.000226876	0.999173
PAH1+H	9.95931e-05	0.999514	0.000140589	0.999314
rad50	5.46328e-05	0.999569	7.71214e-05	0.999391
rad35	5.24979e-05	0.999621	7.41079e-05	0.999465
rad46	5.06983e-05	0.999672	7.15674e-05	0.999537
PAH10+CH3	4.32190e-05	0.999715	6.10093e-05	0.999598
rad55	4.15447e-05	0.999757	5.86459e-05	0.999656
rad70	4.13232e-05	0.999798	5.83331e-05	0.999715
PAH3+H	3.54273e-05	0.999833	5.00103e-05	0.999765
rad67	3.21710e-05	0.999866	4.54135e-05	0.999810
rad56	2.10958e-05	0.999887	2.97795e-05	0.999840
rad51	2.05290e-05	0.999907	2.89794e-05	0.999869
rad53	1.82253e-05	0.999925	2.57273e-05	0.999895
rad30	1.61770e-05	0.999942	2.28359e-05	0.999917
rad37	1.58091e-05	0.999957	2.23166e-05	0.999940
rad34	1.21378e-05	0.999970	1.71341e-05	0.999957
rad52	5.53699e-06	0.999975	7.81618e-06	0.999965
rad62	4.54170e-06	0.999980	6.41120e-06	0.999971
PAH8+H	4.26413e-06	0.999984	6.01937e-06	0.999977
rad59	3.10133e-06	0.999987	4.37793e-06	0.999982
rad64	2.31389e-06	0.999989	3.26637e-06	0.999985
rad60syn	2.18352e-06	0.999991	3.08232e-06	0.999988
rad60anti	1.52762e-06	0.999993	2.15643e-06	0.999990
rad71	1.42621e-06	0.999994	2.01328e-06	0.999992
rad68syn	1.22834e-06	0.999996	1.73396e-06	0.999994
rad73	8.52958e-07	0.999996	1.20406e-06	0.999995
rad68anti	7.89692e-07	0.999997	1.11475e-06	0.999996
rad65	5.43585e-07	0.999998	7.67340e-07	0.999997
rad42	4.97942e-07	0.999998	7.02910e-07	0.999998
rad40syn	4.83630e-07	0.999999	6.82706e-07	0.999998
rad58	4.30302e-07	0.999999	6.07428e-07	0.999999
rad40anti	3.15359e-07	1.000000	4.45171e-07	0.999999
rad43	2.01350e-07	1.000000	2.84232e-07	1.000000

rad61	1.06762e-07	1.000000	1.50709e-07	1.000000
rad72	7.85254e-08	1.000000	1.10849e-07	1.000000
rad41	2.11925e-08	1.000000	2.99160e-08	1.000000
rad6	1.18215e-15	1.000000	1.66875e-15	1.000000
rad7	1.68546e-17	1.000000	2.37925e-17	1.000000
rad11	1.28920e-17	1.000000	1.81987e-17	1.000000
rad23	8.42296e-18	1.000000	1.18901e-17	1.000000
rad28	4.33590e-18	1.000000	6.12070e-18	1.000000
rad9	2.74001e-18	1.000000	3.86789e-18	1.000000
rad13	1.82808e-18	1.000000	2.58058e-18	1.000000
rad45	1.39760e-18	1.000000	1.97290e-18	1.000000
rad22	6.74032e-19	1.000000	9.51483e-19	1.000000
rad21	2.97971e-19	1.000000	4.20624e-19	1.000000
rad36	2.52495e-19	1.000000	3.56430e-19	1.000000
rad15	1.60376e-19	1.000000	2.26392e-19	1.000000
rad33	1.06526e-19	1.000000	1.50376e-19	1.000000
rad26	8.47967e-20	1.000000	1.19702e-19	1.000000
rad20	6.76720e-20	1.000000	9.55283e-20	1.000000
rad10	3.03996e-20	1.000000	4.29131e-20	1.000000
rad25	2.68292e-20	1.000000	3.78730e-20	1.000000
rad12	2.31790e-20	1.000000	3.27203e-20	1.000000
rad18	2.02949e-20	1.000000	2.86490e-20	1.000000
rad24	1.45642e-20	1.000000	2.05592e-20	1.000000
rad2	6.50676e-21	1.000000	9.18516e-21	1.000000
rad3	5.31705e-21	1.000000	7.50572e-21	1.000000
rad4	3.32415e-21	1.000000	4.69246e-21	1.000000
rad8	2.01388e-21	1.000000	2.84285e-21	1.000000
rad1	1.87333e-21	1.000000	2.64445e-21	1.000000
rad14	1.40657e-21	1.000000	1.98555e-21	1.000000
rad47	4.71862e-22	1.000000	6.66093e-22	1.000000
rad5	2.19043e-22	1.000000	3.09207e-22	1.000000
rad27	7.37416e-23	1.000000	1.04096e-22	1.000000

0.100000000E-07 Pa, 2500.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.28090e-11	(1.00)	2.31980e-11	(1.00)
Formation of rad11	6.43164e-12	(0.196)	2.60906e-12	(0.112)
Formation of rad6	9.73932e-12	(0.297)	3.95085e-12	(0.170)
H-abstraction	1.66381e-11	(0.507)	1.66381e-11	(0.717)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.717221	0.717221
Phenyl+Allene	0.292939	0.800058	0.000000	0.717221
PhCH2CCH+H	0.0943957	0.894453	0.133305	0.850725
PhCHCCH2+H	0.0481939	0.942647	0.0681609	0.918886
C2H2+PhCH2	0.0183497	0.960997	0.0259521	0.944838
PhCCH+CH3	0.0148752	0.975872	0.0210381	0.965876
Indene+H	0.00953292	0.985405	0.0134824	0.979359
PAH7+H	0.00553047	0.990936	0.00782174	0.987180
Ph+MeAc	0.00339482	0.994330	0.00480131	0.991982
PhcycC3H3_A+H	0.00149309	0.995824	0.00211168	0.994093
rad19syn	0.00122618	0.997050	0.00173419	0.995828
rad39	0.000692493	0.997742	0.000979395	0.996807
rad54	0.000558297	0.998301	0.000789599	0.997597
rad19anti	0.000392540	0.998693	0.000555170	0.998152
PAH9+H	0.000261381	0.998954	0.000369672	0.998522
PhCCCH3+H	0.000164587	0.999119	0.000232776	0.998754
rad38	0.000157797	0.999277	0.000223174	0.998977
PAH1+H	0.000129617	0.999406	0.000183319	0.999161
rad50	6.95411e-05	0.999476	9.83527e-05	0.999259
rad55	5.44673e-05	0.999530	7.70336e-05	0.999336
rad46	5.29591e-05	0.999583	7.49001e-05	0.999411
rad35	5.14100e-05	0.999635	7.27094e-05	0.999484
PAH10+CH3	5.04331e-05	0.999685	7.13277e-05	0.999555
rad70	4.95223e-05	0.999735	7.00399e-05	0.999625
PAH3+H	4.31617e-05	0.999778	6.10439e-05	0.999686
rad67	3.73882e-05	0.999815	5.28783e-05	0.999739
rad56	3.65112e-05	0.999852	5.16378e-05	0.999791
rad51	2.99347e-05	0.999882	4.23369e-05	0.999833
rad53	2.90213e-05	0.999911	4.10449e-05	0.999874
rad34	1.57208e-05	0.999926	2.22340e-05	0.999896
rad30	1.43454e-05	0.999941	2.02888e-05	0.999917
rad37	1.43019e-05	0.999955	2.02272e-05	0.999937
PAH8+H	8.32886e-06	0.999963	1.17795e-05	0.999949
rad52	7.47627e-06	0.999971	1.05737e-05	0.999959
rad62	5.70269e-06	0.999977	8.06532e-06	0.999967
rad59	3.60017e-06	0.999980	5.09173e-06	0.999972

rad64	3.22135e-06	0.999983	4.55597e-06	0.999977
rad71	3.21465e-06	0.999987	4.54650e-06	0.999981
rad60syn	2.29248e-06	0.999989	3.24226e-06	0.999985
rad68syn	1.99920e-06	0.999991	2.82747e-06	0.999988
rad73	1.73023e-06	0.999993	2.44707e-06	0.999990
rad60anti	1.62672e-06	0.999994	2.30068e-06	0.999992
rad68anti	1.28205e-06	0.999996	1.81322e-06	0.999994
rad40syn	8.70429e-07	0.999996	1.23105e-06	0.999995
rad65	7.65686e-07	0.999997	1.08291e-06	0.999996
rad42	7.25369e-07	0.999998	1.02590e-06	0.999997
rad58	6.16762e-07	0.999999	8.72293e-07	0.999998
rad40anti	5.85898e-07	0.999999	8.28640e-07	0.999999
rad43	2.45120e-07	0.999999	3.46673e-07	0.999999
rad72	2.19453e-07	1.000000	3.10373e-07	1.000000
rad61	1.61750e-07	1.000000	2.28765e-07	1.000000
rad41	3.09947e-08	1.000000	4.38359e-08	1.000000
rad6	3.23919e-16	1.000000	4.58120e-16	1.000000
rad7	6.60215e-18	1.000000	9.33746e-18	1.000000
rad11	4.80249e-18	1.000000	6.79219e-18	1.000000
rad23	2.46173e-18	1.000000	3.48164e-18	1.000000
rad28	1.17706e-18	1.000000	1.66472e-18	1.000000
rad9	1.06893e-18	1.000000	1.51179e-18	1.000000
rad13	7.91321e-19	1.000000	1.11917e-18	1.000000
rad45	5.44210e-19	1.000000	7.69678e-19	1.000000
rad22	2.12454e-19	1.000000	3.00473e-19	1.000000
rad21	1.39345e-19	1.000000	1.97077e-19	1.000000
rad36	1.00050e-19	1.000000	1.41500e-19	1.000000
rad15	6.95052e-20	1.000000	9.83015e-20	1.000000
rad33	5.56576e-20	1.000000	7.87170e-20	1.000000
rad26	3.00894e-20	1.000000	4.25555e-20	1.000000
rad20	2.88827e-20	1.000000	4.08489e-20	1.000000
rad25	1.37165e-20	1.000000	1.93993e-20	1.000000
rad12	1.32606e-20	1.000000	1.87546e-20	1.000000
rad10	1.10632e-20	1.000000	1.56468e-20	1.000000
rad24	7.99114e-21	1.000000	1.13019e-20	1.000000
rad18	7.64139e-21	1.000000	1.08073e-20	1.000000
rad3	2.11507e-21	1.000000	2.99135e-21	1.000000
rad2	1.74835e-21	1.000000	2.47270e-21	1.000000
rad8	1.74700e-21	1.000000	2.47079e-21	1.000000
rad4	1.29409e-21	1.000000	1.83024e-21	1.000000
rad14	7.76880e-22	1.000000	1.09875e-21	1.000000
rad47	6.74962e-22	1.000000	9.54604e-22	1.000000
rad1	4.91729e-22	1.000000	6.95454e-22	1.000000
rad5	1.44553e-22	1.000000	2.04442e-22	1.000000
rad27	3.67276e-23	1.000000	5.19440e-23	1.000000

0.100000000E-07 Pa, 2750.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	4.60596e-11	(1.00)	3.26255e-11	(1.00)
Formation of rad11	8.62280e-12	(0.187)	3.34633e-12	(0.103)
Formation of rad6	1.33313e-11	(0.289)	5.17360e-12	(0.159)
H-abstraction	2.41055e-11	(0.523)	2.41055e-11	(0.739)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.738856	0.738856
Phenyl+Allene	0.291669	0.815024	0.000000	0.738856
PhCH2CCH+H	0.0913925	0.906416	0.129025	0.867881
PhCHCCH2+H	0.0440897	0.950506	0.0622446	0.930126
C2H2+PhCH2	0.0155259	0.966032	0.0219190	0.952045
PhCCH+CH3	0.0128664	0.978898	0.0181644	0.970209
Indene+H	0.00652675	0.985425	0.00921427	0.979424
PAH7+H	0.00506746	0.990493	0.00715408	0.986578
Ph+MeAc	0.00315047	0.993643	0.00444775	0.991026
PhcycC3H3_A+H	0.00197300	0.995616	0.00278544	0.993811
rad19syn	0.00143568	0.997052	0.00202686	0.995838
rad54	0.000652594	0.997704	0.000921315	0.996759
rad39	0.000584043	0.998288	0.000824532	0.997584
rad19anti	0.000328573	0.998617	0.000463869	0.998048
PAH9+H	0.000240059	0.998857	0.000338907	0.998386
PAH1+H	0.000158291	0.999015	0.000223471	0.998610
rad38	0.000149711	0.999165	0.000211358	0.998821
PhCCCH3+H	0.000136861	0.999302	0.000193216	0.999015
rad50	8.19601e-05	0.999384	0.000115709	0.999130
rad55	6.64334e-05	0.999450	9.37887e-05	0.999224
rad70	5.64830e-05	0.999507	7.97407e-05	0.999304
rad56	5.59920e-05	0.999563	7.90477e-05	0.999383
PAH10+CH3	5.49972e-05	0.999618	7.76435e-05	0.999460

rad46	5.29186e-05	0.999671	7.47090e-05	0.999535
PAH3+H	5.07704e-05	0.999721	7.16761e-05	0.999607
rad35	4.92117e-05	0.999771	6.94754e-05	0.999676
rad53	4.15958e-05	0.999812	5.87239e-05	0.999735
rad67	4.08893e-05	0.999853	5.77263e-05	0.999793
rad51	3.94231e-05	0.999893	5.56562e-05	0.999848
rad34	1.91382e-05	0.999912	2.70187e-05	0.999875
PAH8+H	1.42400e-05	0.999926	2.01036e-05	0.999896
rad30	1.30159e-05	0.999939	1.83754e-05	0.999914
rad37	1.25497e-05	0.999951	1.77173e-05	0.999932
rad52	9.23200e-06	0.999961	1.30335e-05	0.999945
rad62	6.96508e-06	0.999968	9.83308e-06	0.999954
rad71	6.06264e-06	0.999974	8.55906e-06	0.999963
rad64	4.12924e-06	0.999978	5.82954e-06	0.999969
rad59	4.06487e-06	0.999982	5.73866e-06	0.999975
rad73	2.98825e-06	0.999985	4.21872e-06	0.999979
rad68syn	2.93858e-06	0.999988	4.14861e-06	0.999983
rad60syn	2.38752e-06	0.999990	3.37063e-06	0.999986
rad68anti	1.88086e-06	0.999992	2.65533e-06	0.999989
rad60anti	1.71401e-06	0.999994	2.41979e-06	0.999991
rad40syn	1.39059e-06	0.999995	1.96319e-06	0.999993
rad42	1.00618e-06	0.999996	1.42050e-06	0.999995
rad65	9.77109e-07	0.999997	1.37945e-06	0.999996
rad40anti	9.60893e-07	0.999998	1.35656e-06	0.999998
rad58	8.26832e-07	0.999999	1.16730e-06	0.999999
rad72	4.93194e-07	1.000000	6.96274e-07	0.999999
rad43	2.90363e-07	1.000000	4.09925e-07	1.000000
rad61	2.19014e-07	1.000000	3.09197e-07	1.000000
rad41	4.25216e-08	1.000000	6.00307e-08	1.000000
rad6	1.10332e-16	1.000000	1.55763e-16	1.000000
rad7	2.96666e-18	1.000000	4.18825e-18	1.000000
rad11	2.05427e-18	1.000000	2.90016e-18	1.000000
rad23	8.39697e-19	1.000000	1.18546e-18	1.000000
rad9	4.48622e-19	1.000000	6.33352e-19	1.000000
rad28	4.00876e-19	1.000000	5.65945e-19	1.000000
rad13	3.84823e-19	1.000000	5.43281e-19	1.000000
rad45	2.33788e-19	1.000000	3.30054e-19	1.000000
rad22	7.92771e-20	1.000000	1.11921e-19	1.000000
rad21	7.20273e-20	1.000000	1.01686e-19	1.000000
rad36	4.36426e-20	1.000000	6.16134e-20	1.000000
rad15	3.20712e-20	1.000000	4.52773e-20	1.000000
rad33	3.15102e-20	1.000000	4.44850e-20	1.000000
rad20	1.44342e-20	1.000000	2.03778e-20	1.000000
rad26	1.23244e-20	1.000000	1.73992e-20	1.000000
rad12	7.84782e-21	1.000000	1.10793e-20	1.000000
rad25	7.63295e-21	1.000000	1.07760e-20	1.000000
rad10	4.78152e-21	1.000000	6.75038e-21	1.000000
rad24	4.65717e-21	1.000000	6.57484e-21	1.000000
rad18	3.38453e-21	1.000000	4.77817e-21	1.000000
rad8	1.52996e-21	1.000000	2.15996e-21	1.000000
rad3	9.92423e-22	1.000000	1.40107e-21	1.000000
rad47	8.69678e-22	1.000000	1.22779e-21	1.000000
rad2	6.23814e-22	1.000000	8.80678e-22	1.000000
rad4	5.95263e-22	1.000000	8.40376e-22	1.000000
rad14	4.74805e-22	1.000000	6.70314e-22	1.000000
rad1	1.65994e-22	1.000000	2.34345e-22	1.000000
rad5	1.01381e-22	1.000000	1.43127e-22	1.000000
rad27	2.15735e-23	1.000000	3.04569e-23	1.000000

0.100000000E-07 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.43911e-11 (1.00)
Formation of rad11	1.12221e-11 (0.180)	4.21269e-12 (0.0949)
Formation of rad6	1.76534e-11 (0.283)	6.62699e-12 (0.149)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.756)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.755814	0.755814
Phenyl+Allene	0.288911	0.826362	0.000000	0.755814
PhCH2CCH+H	0.0883066	0.914669	0.124185	0.879999
PhCHCCH2+H	0.0408111	0.955480	0.0573925	0.937392
C2H2+PhCH2	0.0138651	0.969345	0.0194984	0.956890
PhCCH+CH3	0.0113582	0.980703	0.0159730	0.972863
PAH7+H	0.00465329	0.985356	0.00654386	0.979407
Indene+H	0.00463895	0.989995	0.00652370	0.985931
Ph+MeAc	0.00297587	0.992971	0.00418496	0.990116
PhcycC3H3_A+H	0.00245642	0.995427	0.00345445	0.993570

rad19syn	0.00161454	0.997042	0.00227052	0.995841
rad54	0.000727890	0.997770	0.00102362	0.996864
rad39	0.000500510	0.998270	0.000703861	0.997568
rad19anti	0.000275358	0.998546	0.000387232	0.997955
PAH9+H	0.000215435	0.998761	0.000302964	0.998258
PAH1+H	0.000185098	0.998946	0.000260302	0.998519
rad38	0.000138297	0.999085	0.000194486	0.998713
PhCCCH3+H	0.000118094	0.999203	0.000166074	0.998879
rad50	9.10199e-05	0.999294	0.000128001	0.999007
rad56	7.84307e-05	0.999372	0.000110297	0.999117
rad55	7.67854e-05	0.999449	0.000107983	0.999225
rad70	6.22156e-05	0.999511	8.74935e-05	0.999313
PAH3+H	5.79162e-05	0.999569	8.14472e-05	0.999394
PAH10+CH3	5.73435e-05	0.999626	8.06419e-05	0.999475
rad53	5.50942e-05	0.999682	7.74787e-05	0.999552
rad46	5.10964e-05	0.999733	7.18563e-05	0.999624
rad51	4.79927e-05	0.999781	6.74918e-05	0.999692
rad35	4.64038e-05	0.999827	6.52572e-05	0.999757
rad67	4.30004e-05	0.999870	6.04712e-05	0.999818
rad34	2.22803e-05	0.999892	3.13327e-05	0.999849
PAH8+H	2.20424e-05	0.999914	3.09982e-05	0.999880
rad30	1.19659e-05	0.999926	1.68276e-05	0.999897
rad37	1.08360e-05	0.999937	1.52386e-05	0.999912
rad52	1.06405e-05	0.999948	1.49636e-05	0.999927
rad71	9.97847e-06	0.999958	1.40327e-05	0.999941
rad62	8.52399e-06	0.999966	1.19872e-05	0.999953
rad64	4.99011e-06	0.999971	7.01754e-06	0.999960
rad73	4.56449e-06	0.999976	6.41901e-06	0.999966
rad59	4.47702e-06	0.999980	6.29599e-06	0.999973
rad68syn	4.00554e-06	0.999984	5.63295e-06	0.999978
rad68anti	2.55993e-06	0.999987	3.60001e-06	0.999982
rad60syn	2.46101e-06	0.999989	3.46090e-06	0.999985
rad40syn	2.03324e-06	0.999991	2.85932e-06	0.999988
rad60anti	1.78407e-06	0.999993	2.50894e-06	0.999991
rad40anti	1.43624e-06	0.999995	2.01978e-06	0.999993
rad42	1.37800e-06	0.999996	1.93787e-06	0.999995
rad65	1.15674e-06	0.999997	1.62672e-06	0.999996
rad58	1.05023e-06	0.999998	1.47693e-06	0.999998
rad72	9.39261e-07	0.999999	1.32087e-06	0.999999
rad43	3.36095e-07	0.999999	4.72649e-07	1.000000
rad61	2.73990e-07	1.000000	3.85311e-07	1.000000
rad41	5.56844e-08	1.000000	7.83087e-08	1.000000
rad6	4.38013e-17	1.000000	6.15974e-17	1.000000
rad7	1.48080e-18	1.000000	2.08244e-18	1.000000
rad11	9.86330e-19	1.000000	1.38707e-18	1.000000
rad23	3.21472e-19	1.000000	4.52083e-19	1.000000
rad13	2.05537e-19	1.000000	2.89045e-19	1.000000
rad9	2.02559e-19	1.000000	2.84858e-19	1.000000
rad28	1.58940e-19	1.000000	2.23516e-19	1.000000
rad45	1.09081e-19	1.000000	1.53400e-19	1.000000
rad21	4.05034e-20	1.000000	5.69598e-20	1.000000
rad22	3.35977e-20	1.000000	4.72483e-20	1.000000
rad36	2.06208e-20	1.000000	2.89990e-20	1.000000
rad33	1.89985e-20	1.000000	2.67174e-20	1.000000
rad15	1.57396e-20	1.000000	2.21345e-20	1.000000
rad20	8.22772e-21	1.000000	1.15706e-20	1.000000
rad26	5.53805e-21	1.000000	7.78814e-21	1.000000
rad12	4.82938e-21	1.000000	6.79149e-21	1.000000
rad25	4.56474e-21	1.000000	6.41938e-21	1.000000
rad24	2.85392e-21	1.000000	4.01344e-21	1.000000
rad10	2.30346e-21	1.000000	3.23932e-21	1.000000
rad18	1.70015e-21	1.000000	2.39092e-21	1.000000
rad8	1.34844e-21	1.000000	1.89630e-21	1.000000
rad47	1.03449e-21	1.000000	1.45480e-21	1.000000
rad3	5.16796e-22	1.000000	7.26763e-22	1.000000
rad14	3.16322e-22	1.000000	4.44841e-22	1.000000
rad4	3.07704e-22	1.000000	4.32722e-22	1.000000
rad2	2.70331e-22	1.000000	3.80163e-22	1.000000
rad5	7.37395e-23	1.000000	1.03700e-22	1.000000
rad1	6.74965e-23	1.000000	9.49199e-23	1.000000
rad27	1.40640e-23	1.000000	1.97781e-23	1.000000

0.100000000E-07 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.22129e-11 (1.00)	5.87536e-11 (1.00)
Formation of rad11	1.42538e-11 (0.173)	5.21849e-12 (0.0888)
Formation of rad6	2.27549e-11 (0.277)	8.33083e-12 (0.142)
H-abstraction	4.52043e-11 (0.550)	4.52043e-11 (0.769)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.549844	0.549844	0.769388	0.769388
Phenyl+Allene	0.285349	0.835192	0.00000	0.769388
PhCH2CCH+H	0.0853725	0.920565	0.119460	0.888848
PhCHCCH2+H	0.0381839	0.958749	0.0534299	0.942278
C2H2+PhCH2	0.0128678	0.971617	0.0180057	0.960283
PhCCH+CH3	0.0101926	0.981809	0.0142623	0.974546
PAH7+H	0.00428274	0.986092	0.00599276	0.980539
Indene+H	0.00340695	0.989499	0.00476729	0.985306
PhcycC3H3_A+H	0.00292038	0.992419	0.00408643	0.989392
Ph+MeAc	0.00285191	0.995271	0.00399061	0.993383
rad19syn	0.00176005	0.997031	0.00246280	0.995846
rad54	0.000783510	0.997815	0.00109635	0.996942
rad39	0.000435199	0.998250	0.000608967	0.997551
rad19anti	0.000232598	0.998483	0.000325470	0.997876
PAH1+H	0.000210285	0.998693	0.000294248	0.998171
PAH9+H	0.000189946	0.998883	0.000265788	0.998436
rad38	0.000125074	0.999008	0.000175014	0.998611
PhCCCH3+H	0.000104499	0.999112	0.000146224	0.998758
rad56	0.000102496	0.999215	0.000143420	0.998901
rad50	9.64743e-05	0.999311	0.000134995	0.999036
rad55	8.51952e-05	0.999397	0.000119212	0.999155
rad53	6.86880e-05	0.999465	9.61137e-05	0.999251
rad70	6.67834e-05	0.999532	9.34486e-05	0.999345
PAH3+H	6.43467e-05	0.999596	9.00394e-05	0.999435
PAH10+CH3	5.80427e-05	0.999654	8.12183e-05	0.999516
rad51	5.49240e-05	0.999709	7.68541e-05	0.999593
rad46	4.80263e-05	0.999757	6.72021e-05	0.999660
rad67	4.40669e-05	0.999802	6.16619e-05	0.999722
rad35	4.33473e-05	0.999845	6.06552e-05	0.999783
PAH8+H	3.16111e-05	0.999876	4.42329e-05	0.999827
rad34	2.50786e-05	0.999902	3.50921e-05	0.999862
rad71	1.47743e-05	0.999916	2.06734e-05	0.999883
rad52	1.16170e-05	0.999928	1.62555e-05	0.999899
rad30	1.10774e-05	0.999939	1.55003e-05	0.999914
rad62	1.06705e-05	0.999950	1.49310e-05	0.999929
rad37	9.29424e-06	0.999959	1.30053e-05	0.999942
rad73	6.33743e-06	0.999965	8.86788e-06	0.999951
rad64	5.77649e-06	0.999971	8.08292e-06	0.999959
rad68syn	5.15348e-06	0.999976	7.21118e-06	0.999966
rad59	4.82486e-06	0.999981	6.75136e-06	0.999973
rad68anti	3.28964e-06	0.999984	4.60314e-06	0.999978
rad40syn	2.77792e-06	0.999987	3.88709e-06	0.999982
rad60syn	2.50929e-06	0.999990	3.51119e-06	0.999985
rad40anti	1.99952e-06	0.999992	2.79788e-06	0.999988
rad42	1.90464e-06	0.999994	2.66512e-06	0.999991
rad60anti	1.83422e-06	0.999995	2.56658e-06	0.999993
rad72	1.57365e-06	0.999997	2.20197e-06	0.999995
rad65	1.29208e-06	0.999998	1.80798e-06	0.999997
rad58	1.27682e-06	1.000000	1.78663e-06	0.999999
rad43	3.85029e-07	1.000000	5.38764e-07	1.000000
rad61	3.23853e-07	1.000000	4.53160e-07	1.000000
rad41	7.10639e-08	1.000000	9.94383e-08	1.000000
rad6	1.96001e-17	1.000000	2.74260e-17	1.000000
rad7	8.03344e-19	1.000000	1.12411e-18	1.000000
rad11	5.21686e-19	1.000000	7.29985e-19	1.000000
rad23	1.34707e-19	1.000000	1.88492e-19	1.000000
rad13	1.18525e-19	1.000000	1.65850e-19	1.000000
rad9	9.81808e-20	1.000000	1.37383e-19	1.000000
rad28	7.06560e-20	1.000000	9.88679e-20	1.000000
rad45	5.45355e-20	1.000000	7.63106e-20	1.000000
rad21	2.44315e-20	1.000000	3.41865e-20	1.000000
rad22	1.58051e-20	1.000000	2.21157e-20	1.000000
rad33	1.20474e-20	1.000000	1.68578e-20	1.000000
rad36	1.04083e-20	1.000000	1.45642e-20	1.000000
rad15	8.20328e-21	1.000000	1.14787e-20	1.000000
rad20	5.20430e-21	1.000000	7.28226e-21	1.000000
rad12	3.09374e-21	1.000000	4.32901e-21	1.000000
rad25	2.89947e-21	1.000000	4.05717e-21	1.000000
rad26	2.68043e-21	1.000000	3.75068e-21	1.000000
rad24	1.82403e-21	1.000000	2.55233e-21	1.000000
rad10	1.20013e-21	1.000000	1.67931e-21	1.000000
rad8	1.19193e-21	1.000000	1.66784e-21	1.000000
rad47	1.15640e-21	1.000000	1.61813e-21	1.000000
rad18	9.40390e-22	1.000000	1.31587e-21	1.000000
rad3	2.94167e-22	1.000000	4.11623e-22	1.000000
rad14	2.29549e-22	1.000000	3.21202e-22	1.000000
rad4	1.76001e-22	1.000000	2.46276e-22	1.000000

rad2	1.34900e-22	1.00000	1.88763e-22	1.00000
rad5	5.53994e-23	1.00000	7.75192e-23	1.00000
rad1	3.17607e-23	1.00000	4.44423e-23	1.00000
rad27	9.84680e-24	1.00000	1.37785e-23	1.00000

0.100000000E-07 Pa, 3500.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.05713e-10	(1.00)	7.59650e-11	(1.00)
Formation of rad11	1.77412e-11	(0.168)	6.37264e-12	(0.0839)
Formation of rad6	2.86822e-11	(0.271)	1.03027e-11	(0.136)
H-abstraction	5.92897e-11	(0.561)	5.92897e-11	(0.780)
species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.560855	0.560855	0.780487	0.780487
Phenyl+Allene	0.281404	0.842259	0.00000	0.780487
PhCH2CCH+H	0.0826656	0.924925	0.115037	0.895524
PhCHCCH2+H	0.0360585	0.960983	0.0501791	0.945703
C2H2+PhCH2	0.0122593	0.973242	0.0170600	0.962764
PhCCH+CH3	0.00927084	0.982513	0.0129013	0.975665
PAH7+H	0.00395025	0.986463	0.00549717	0.981162
PhcycC3H3_A+H	0.00334801	0.989811	0.00465910	0.985821
Ph+MeAc	0.00276398	0.992575	0.00384635	0.989667
Indene+H	0.00257590	0.995151	0.00358462	0.993252
rad19syn	0.00187235	0.997024	0.00260557	0.995858
rad54	0.000820548	0.997844	0.00114187	0.996999
rad39	0.000383055	0.998227	0.000533059	0.997533
PAH1+H	0.000234590	0.998462	0.000326455	0.997859
rad19anti	0.000198628	0.998661	0.000276411	0.998135
PAH9+H	0.000165224	0.998826	0.000229927	0.998365
rad56	0.000126873	0.998953	0.000176556	0.998542
rad38	0.000111229	0.999064	0.000154787	0.998697
rad50	9.85613e-05	0.999162	0.000137158	0.998834
PhCCCH3+H	9.42424e-05	0.999257	0.000131148	0.998965
rad55	9.15803e-05	0.999348	0.000127443	0.999092
rad53	8.16793e-05	0.999430	0.000113665	0.999206
rad70	7.02694e-05	0.999500	9.77871e-05	0.999304
PAH3+H	6.99220e-05	0.999570	9.73035e-05	0.999401
rad51	5.98507e-05	0.999630	8.32882e-05	0.999484
PAH10+CH3	5.76128e-05	0.999688	8.01742e-05	0.999565
rad67	4.43734e-05	0.999732	6.17501e-05	0.999626
rad46	4.41956e-05	0.999776	6.15029e-05	0.999688
PAH8+H	4.26935e-05	0.999819	5.94123e-05	0.999747
rad35	4.02805e-05	0.999859	5.60544e-05	0.999803
rad34	2.74951e-05	0.999887	3.82622e-05	0.999842
rad71	2.01281e-05	0.999907	2.80103e-05	0.999870
rad62	1.37116e-05	0.999920	1.90811e-05	0.999889
rad52	1.21501e-05	0.999933	1.69080e-05	0.999906
rad30	1.02915e-05	0.999943	1.43216e-05	0.999920
rad73	8.16310e-06	0.999951	1.13598e-05	0.999931
rad37	7.96636e-06	0.999959	1.10860e-05	0.999942
rad64	6.47621e-06	0.999966	9.01228e-06	0.999951
rad68syn	6.33612e-06	0.999972	8.81737e-06	0.999960
rad59	5.10458e-06	0.999977	7.10355e-06	0.999967
rad68anti	4.04059e-06	0.999981	5.62289e-06	0.999973
rad40syn	3.59895e-06	0.999985	5.00830e-06	0.999978
rad42	2.66321e-06	0.999987	3.70612e-06	0.999982
rad40anti	2.63316e-06	0.999990	3.66431e-06	0.999985
rad60syn	2.53258e-06	0.999992	3.52435e-06	0.999989
rad72	2.38441e-06	0.999995	3.31814e-06	0.999992
rad60anti	1.86455e-06	0.999997	2.59471e-06	0.999995
rad58	1.49815e-06	0.999998	2.08483e-06	0.999997
rad65	1.37925e-06	1.000000	1.91936e-06	0.999999
rad43	4.42452e-07	1.000000	6.15716e-07	0.999999
rad61	3.67258e-07	1.00000	5.11077e-07	1.000000
rad41	8.98821e-08	1.00000	1.25080e-07	1.00000
rad6	9.67284e-18	1.00000	1.34607e-17	1.00000
rad7	4.66091e-19	1.00000	6.48612e-19	1.00000
rad11	2.99098e-19	1.00000	4.16225e-19	1.00000
rad13	7.28305e-20	1.00000	1.01351e-19	1.00000
rad23	6.08414e-20	1.00000	8.46672e-20	1.00000
rad9	5.08847e-20	1.00000	7.08111e-20	1.00000
rad28	3.44704e-20	1.00000	4.79691e-20	1.00000
rad45	2.88136e-20	1.00000	4.00971e-20	1.00000
rad21	1.56206e-20	1.00000	2.17377e-20	1.00000
rad22	8.11694e-21	1.00000	1.12955e-20	1.00000
rad33	7.96109e-21	1.00000	1.10787e-20	1.00000
rad36	5.54320e-21	1.00000	7.71390e-21	1.00000

rad15	4.52557e-21	1.00000	6.29778e-21	1.00000
rad20	3.56498e-21	1.00000	4.96104e-21	1.00000
rad12	2.06000e-21	1.00000	2.86671e-21	1.00000
rad25	1.93599e-21	1.00000	2.69413e-21	1.00000
rad26	1.38427e-21	1.00000	1.92635e-21	1.00000
rad47	1.23125e-21	1.00000	1.71341e-21	1.00000
rad24	1.20836e-21	1.00000	1.68155e-21	1.00000
rad8	1.05361e-21	1.00000	1.46621e-21	1.00000
rad10	6.65296e-22	1.00000	9.25826e-22	1.00000
rad18	5.60033e-22	1.00000	7.79343e-22	1.00000
rad14	1.81848e-22	1.00000	2.53061e-22	1.00000
rad3	1.79415e-22	1.00000	2.49674e-22	1.00000
rad4	1.09169e-22	1.00000	1.51920e-22	1.00000
rad2	7.41269e-23	1.00000	1.03155e-22	1.00000
rad5	4.29350e-23	1.00000	5.97483e-23	1.00000
rad1	1.67427e-23	1.00000	2.32991e-23	1.00000
rad27	7.31080e-24	1.00000	1.01737e-23	1.00000

0.100000000E-07 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.33217e-10 (1.00)	9.62711e-11 (1.00)
Formation of rad11	2.17064e-11 (0.163)	7.68279e-12 (0.0798)
Formation of rad6	3.54800e-11 (0.266)	1.25578e-11 (0.130)
H-abstraction	7.60305e-11 (0.571)	7.60305e-11 (0.790)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789754	0.789754
Phenyl+Allene	0.277336	0.848063	0.00000	0.789754
PhCH2CCH+H	0.0801946	0.928257	0.110971	0.900725
PhCHCCH2+H	0.0343186	0.962576	0.0474891	0.948214
C2H2+PhCH2	0.0118838	0.974460	0.0164445	0.964658
PhCCH+CH3	0.00852836	0.982988	0.0118013	0.976459
PhcycC3H3_A+H	0.00372851	0.986717	0.00515939	0.981619
PAH7+H	0.00365085	0.990368	0.00505194	0.986671
Ph+MeAc	0.00270113	0.993069	0.00373773	0.990408
Indene+H	0.00199900	0.995068	0.00276616	0.993175
rad19syn	0.00195356	0.997021	0.00270328	0.995878
rad54	0.000841040	0.997862	0.00116381	0.997042
rad39	0.000340475	0.998203	0.000471138	0.997513
PAH1+H	0.000258935	0.998462	0.000358305	0.997871
rad19anti	0.000171610	0.998633	0.000237469	0.998109
rad56	0.000150421	0.998784	0.000208148	0.998317
PAH9+H	0.000142296	0.998926	0.000196904	0.998514
rad50	9.78214e-05	0.999024	0.000135362	0.998649
rad38	9.76287e-05	0.999121	0.000135095	0.998784
rad55	9.60227e-05	0.999217	0.000132873	0.998917
rad53	9.35446e-05	0.999311	0.000129444	0.999046
PhCCCH3+H	8.63448e-05	0.999397	0.000119481	0.999166
PAH3+H	7.46029e-05	0.999472	0.000103233	0.999269
rad70	7.27716e-05	0.999545	0.000100699	0.999370
rad51	6.27266e-05	0.999607	8.67994e-05	0.999457
PAH10+CH3	5.64592e-05	0.999664	7.81267e-05	0.999535
PAH8+H	5.49581e-05	0.999719	7.60493e-05	0.999611
rad67	4.41361e-05	0.999763	6.10741e-05	0.999672
rad46	4.00102e-05	0.999803	5.53649e-05	0.999727
rad35	3.73501e-05	0.999840	5.16839e-05	0.999779
rad34	2.95155e-05	0.999870	4.08426e-05	0.999820
rad71	2.56704e-05	0.999896	3.55219e-05	0.999855
rad62	1.78765e-05	0.999913	2.47369e-05	0.999880
rad52	1.22817e-05	0.999926	1.69950e-05	0.999897
rad73	9.90830e-06	0.999936	1.37108e-05	0.999911
rad30	9.58077e-06	0.999945	1.32576e-05	0.999924
rad68syn	7.51159e-06	0.999953	1.03943e-05	0.999934
rad64	7.08717e-06	0.999960	9.80700e-06	0.999944
rad37	6.84827e-06	0.999967	9.47639e-06	0.999954
rad59	5.31873e-06	0.999972	7.35989e-06	0.999961
rad68anti	4.78626e-06	0.999977	6.62308e-06	0.999968
rad40syn	4.46912e-06	0.999981	6.18422e-06	0.999974
rad42	3.72271e-06	0.999985	5.15138e-06	0.999979
rad72	3.33614e-06	0.999988	4.61643e-06	0.999984
rad40anti	3.31727e-06	0.999992	4.59032e-06	0.999988
rad60syn	2.53369e-06	0.999994	3.50604e-06	0.999992
rad60anti	1.87710e-06	0.999996	2.59748e-06	0.999994
rad58	1.70809e-06	0.999998	2.36361e-06	0.999997
rad65	1.42131e-06	0.999999	1.96676e-06	0.999999
rad43	5.13732e-07	1.000000	7.10883e-07	0.999999
rad61	4.03889e-07	1.00000	5.58888e-07	1.000000

rad41	1.13553e-07	1.00000	1.57130e-07	1.00000
rad6	5.17935e-18	1.00000	7.16705e-18	1.00000
rad7	2.85678e-19	1.00000	3.95313e-19	1.00000
rad11	1.83381e-19	1.00000	2.53756e-19	1.00000
rad13	4.71985e-20	1.00000	6.53121e-20	1.00000
rad23	2.92895e-20	1.00000	4.05299e-20	1.00000
rad9	2.80527e-20	1.00000	3.88185e-20	1.00000
rad28	1.81765e-20	1.00000	2.51521e-20	1.00000
rad45	1.60430e-20	1.00000	2.21999e-20	1.00000
rad21	1.04834e-20	1.00000	1.45067e-20	1.00000
rad33	5.44417e-21	1.00000	7.53345e-21	1.00000
rad22	4.48976e-21	1.00000	6.21279e-21	1.00000
rad36	3.09559e-21	1.00000	4.28357e-21	1.00000
rad15	2.63078e-21	1.00000	3.64039e-21	1.00000
rad20	2.59386e-21	1.00000	3.58930e-21	1.00000
rad12	1.42144e-21	1.00000	1.96695e-21	1.00000
rad25	1.34705e-21	1.00000	1.86401e-21	1.00000
rad47	1.26179e-21	1.00000	1.74602e-21	1.00000
rad8	9.29496e-22	1.00000	1.28621e-21	1.00000
rad24	8.25899e-22	1.00000	1.14285e-21	1.00000
rad26	7.57542e-22	1.00000	1.04827e-21	1.00000
rad10	3.88522e-22	1.00000	5.37624e-22	1.00000
rad18	3.53332e-22	1.00000	4.88931e-22	1.00000
rad14	1.56337e-22	1.00000	2.16335e-22	1.00000
rad3	1.16114e-22	1.00000	1.60674e-22	1.00000
rad4	7.24720e-23	1.00000	1.00284e-22	1.00000
rad2	4.38670e-23	1.00000	6.07018e-23	1.00000
rad5	3.42484e-23	1.00000	4.73917e-23	1.00000
rad1	9.69191e-24	1.00000	1.34114e-23	1.00000
rad27	5.73762e-24	1.00000	7.93956e-24	1.00000

0.100000000E-07 Pa, 4000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.65008e-10 (1.00)	1.19912e-10 (1.00)
Formation of rad11	2.61707e-11 (0.159)	9.15556e-12 (0.0764)
Formation of rad6	4.31906e-11 (0.262)	1.51098e-11 (0.126)
H-abstraction	9.56470e-11 (0.580)	9.56470e-11 (0.798)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.579650	0.579650	0.797641	0.797641
Phenyl+Allene	0.273295	0.852945	0.000000	0.797641
PhCH2CCH+H	0.0779435	0.930888	0.107256	0.904897
PhCHCCH2+H	0.0328766	0.963765	0.0452408	0.950138
C2H2+PhCH2	0.0116508	0.975415	0.0160323	0.966170
PhCCH+CH3	0.00792125	0.983337	0.0109003	0.977070
PhcycC3H3_A+H	0.00405636	0.987393	0.00558187	0.982652
PAH7+H	0.00338058	0.990774	0.00465193	0.987304
Ph+MeAc	0.00265534	0.993429	0.00365394	0.990958
rad19syn	0.00200699	0.995436	0.00276178	0.993720
Indene+H	0.00158840	0.997024	0.00218576	0.995906
rad54	0.000847468	0.997872	0.00116618	0.997072
rad39	0.000304994	0.998177	0.000419695	0.997491
PAH1+H	0.000284127	0.998461	0.000390980	0.997882
rad56	0.000172242	0.998633	0.000237017	0.998119
rad19anti	0.000149971	0.998783	0.000206372	0.998326
PAH9+H	0.000121736	0.998905	0.000167518	0.998493
rad53	0.000103935	0.999009	0.000143023	0.998636
rad55	9.87033e-05	0.999108	0.000135823	0.998772
rad50	9.49261e-05	0.999203	0.000130625	0.998903
rad38	8.48536e-05	0.999287	0.000116765	0.999020
PhCCCH3+H	8.02193e-05	0.999368	0.000110388	0.999130
PAH3+H	7.84218e-05	0.999446	0.000107914	0.999238
rad70	7.43978e-05	0.999520	0.000102377	0.999340
PAH8+H	6.80299e-05	0.999588	9.36140e-05	0.999434
rad51	6.37407e-05	0.999652	8.77122e-05	0.999522
PAH10+CH3	5.48776e-05	0.999707	7.55158e-05	0.999597
rad67	4.35168e-05	0.999751	5.98821e-05	0.999657
rad46	3.57792e-05	0.999786	4.92350e-05	0.999706
rad35	3.46400e-05	0.999821	4.76673e-05	0.999754
rad34	3.11445e-05	0.999852	4.28572e-05	0.999797
rad71	3.10563e-05	0.999883	4.27358e-05	0.999839
rad62	2.32398e-05	0.999906	3.19798e-05	0.999871
rad52	1.20851e-05	0.999919	1.66300e-05	0.999888
rad73	1.14710e-05	0.999930	1.57849e-05	0.999904
rad30	8.93299e-06	0.999939	1.22925e-05	0.999916
rad68syn	8.64434e-06	0.999948	1.18952e-05	0.999928
rad64	7.61305e-06	0.999955	1.04761e-05	0.999939

rad37	5.91727e-06	0.999961	8.14263e-06	0.999947
rad68anti	5.50424e-06	0.999967	7.57424e-06	0.999954
rad59	5.47385e-06	0.999972	7.53243e-06	0.999962
rad40syn	5.36170e-06	0.999977	7.37810e-06	0.999969
rad42	5.12142e-06	0.999983	7.04750e-06	0.999976
rad72	4.37871e-06	0.999987	6.02543e-06	0.999982
rad40anti	4.03125e-06	0.999991	5.54731e-06	0.999988
rad60syn	2.51669e-06	0.999993	3.46315e-06	0.999991
rad58	1.90267e-06	0.999995	2.61822e-06	0.999994
rad60anti	1.87487e-06	0.999997	2.57996e-06	0.999996
rad65	1.42564e-06	0.999999	1.96179e-06	0.999998
rad43	6.01849e-07	0.999999	8.28191e-07	0.999999
rad61	4.34037e-07	1.000000	5.97267e-07	1.000000
rad41	1.43043e-07	1.000000	1.96838e-07	1.000000
rad6	2.97075e-18	1.000000	4.08798e-18	1.000000
rad7	1.83267e-19	1.000000	2.52190e-19	1.000000
rad11	1.18912e-19	1.000000	1.63631e-19	1.000000
rad13	3.19990e-20	1.000000	4.40329e-20	1.000000
rad9	1.63562e-20	1.000000	2.25074e-20	1.000000
rad23	1.48822e-20	1.000000	2.04789e-20	1.000000
rad28	1.02381e-20	1.000000	1.40884e-20	1.000000
rad45	9.24670e-21	1.000000	1.27242e-20	1.000000
rad21	7.32814e-21	1.000000	1.00841e-20	1.000000
rad33	3.83235e-21	1.000000	5.27360e-21	1.000000
rad22	2.64530e-21	1.000000	3.64014e-21	1.000000
rad20	1.97582e-21	1.000000	2.71888e-21	1.000000
rad36	1.79111e-21	1.000000	2.46471e-21	1.000000
rad15	1.60340e-21	1.000000	2.20640e-21	1.000000
rad47	1.25502e-21	1.000000	1.72700e-21	1.000000
rad12	1.01281e-21	1.000000	1.39370e-21	1.000000
rad25	9.69849e-22	1.000000	1.33459e-21	1.000000
rad8	8.17489e-22	1.000000	1.12493e-21	1.000000
rad24	5.80458e-22	1.000000	7.98754e-22	1.000000
rad26	4.36727e-22	1.000000	6.00970e-22	1.000000
rad10	2.37427e-22	1.000000	3.26717e-22	1.000000
rad18	2.33495e-22	1.000000	3.21308e-22	1.000000
rad14	1.43353e-22	1.000000	1.97264e-22	1.000000
rad3	7.85391e-23	1.000000	1.08076e-22	1.000000
rad4	5.06489e-23	1.000000	6.96967e-23	1.000000
rad5	2.80272e-23	1.000000	3.85676e-23	1.000000
rad2	2.73815e-23	1.000000	3.76789e-23	1.000000
rad1	6.03606e-24	1.000000	8.30609e-24	1.000000
rad27	4.74794e-24	1.000000	6.53351e-24	1.000000

0.100000000E-08 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.56740e-51 (1.00)	1.56740e-51 (1.00)
Formation of rad11	1.56740e-51 (1.000)	1.56740e-51 (1.000)
Formation of rad6	3.73945e-60 (2.39e-09)	3.73945e-60 (2.39e-09)
H-abstraction	1.53631e-76 (9.80e-26)	1.53631e-76 (9.80e-26)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987364	0.987364	0.987364	0.987364
C2H2+PhCH2	0.00821196	0.995576	0.00821196	0.995576
PhCCH+CH3	0.00218926	0.997765	0.00218926	0.997765
PhCHCCH2+H	0.00138412	0.999149	0.00138412	0.999149
PhCCCH3+H	0.000827673	0.999977	0.000827673	0.999977
Ph+MeAc	1.00135e-05	0.999987	1.00135e-05	0.999987
rad8	6.83678e-06	0.999994	6.83678e-06	0.999994
rad9	3.09938e-06	0.999997	3.09938e-06	0.999997
PAH7+H	1.76319e-06	0.999999	1.76319e-06	0.999999
rad30	4.36998e-07	0.999999	4.36998e-07	0.999999
rad12	2.10911e-07	0.999999	2.10911e-07	0.999999
rad39	1.69911e-07	1.000000	1.69911e-07	1.000000
PAH9+H	8.84766e-08	1.000000	8.84766e-08	1.000000
rad15	7.82504e-08	1.000000	7.82504e-08	1.000000
rad35	4.65672e-08	1.000000	4.65672e-08	1.000000
rad38	2.27373e-08	1.000000	2.27373e-08	1.000000
Phenyl+Allene	1.59089e-08	1.000000	0.000000	1.000000
rad46	1.47729e-10	1.000000	1.47729e-10	1.000000
rad60syn	3.54740e-12	1.000000	3.54740e-12	1.000000
rad6	6.07367e-14	1.000000	6.07367e-14	1.000000
rad28	4.55502e-14	1.000000	4.55502e-14	1.000000
rad26	1.07297e-14	1.000000	1.07297e-14	1.000000
rad2	5.83480e-17	1.000000	5.83480e-17	1.000000
rad7	4.38022e-18	1.000000	4.38022e-18	1.000000
rad1	3.68776e-18	1.000000	3.68776e-18	1.000000

rad10	3.55895e-18	1.000000	3.55895e-18	1.000000
rad60anti	1.92920e-18	1.000000	1.92920e-18	1.000000
rad14	1.75552e-18	1.000000	1.75552e-18	1.000000
rad11	1.09331e-18	1.000000	1.09331e-18	1.000000
rad25	8.47263e-19	1.000000	8.47263e-19	1.000000
rad3	6.02846e-19	1.000000	6.02846e-19	1.000000
rad4	3.04771e-19	1.000000	3.04771e-19	1.000000
rad27	9.58645e-20	1.000000	9.58645e-20	1.000000
rad13	2.43536e-20	1.000000	2.43536e-20	1.000000
PhCH2CCH+H	7.54747e-21	1.000000	7.54747e-21	1.000000
rad37	6.78569e-22	1.000000	6.78569e-22	1.000000
rad33	6.42669e-23	1.000000	6.42669e-23	1.000000
rad31	7.36389e-25	1.000000	7.36389e-25	1.000000
rad5	4.35148e-25	1.000000	4.35148e-25	1.000000
Benzene+2-propynyl	9.80165e-26	1.000000	9.80165e-26	1.000000
rad20	4.10366e-26	1.000000	4.10366e-26	1.000000
rad21	3.16531e-26	1.000000	3.16531e-26	1.000000
rad18	1.20563e-28	1.000000	1.20563e-28	1.000000
rad22	8.96794e-30	1.000000	8.96794e-30	1.000000
PAH3+H	7.68130e-30	1.000000	7.68130e-30	1.000000
rad59	4.11320e-30	1.000000	4.11320e-30	1.000000
rad23	3.80231e-30	1.000000	3.80231e-30	1.000000
rad50	1.66010e-30	1.000000	1.66010e-30	1.000000
rad45	2.49533e-32	1.000000	2.49533e-32	1.000000
rad24	1.03404e-32	1.000000	1.03404e-32	1.000000
rad36	1.55439e-33	1.000000	1.55439e-33	1.000000
rad19syn	6.02786e-39	1.000000	6.02786e-39	1.000000
rad52	7.25281e-43	1.000000	7.25281e-43	1.000000
rad54	6.96609e-44	1.000000	6.96609e-44	1.000000
PAH10+CH3	4.53847e-44	1.000000	4.53847e-44	1.000000
rad43	1.04739e-44	1.000000	1.04739e-44	1.000000
rad62	3.12311e-47	1.000000	3.12311e-47	1.000000
rad51	3.48646e-50	1.000000	3.48646e-50	1.000000
rad70	3.74566e-53	1.000000	3.74566e-53	1.000000
PhcycC3H3_A+H	1.58635e-53	1.000000	1.58635e-53	1.000000
rad55	8.54177e-54	1.000000	8.54177e-54	1.000000
rad65	2.33897e-55	1.000000	2.33897e-55	1.000000
rad58	5.32731e-57	1.000000	5.32731e-57	1.000000
PAH1+H	7.14300e-59	1.000000	7.14300e-59	1.000000
rad34	4.72920e-61	1.000000	4.72920e-61	1.000000
rad42	3.37352e-65	1.000000	3.37352e-65	1.000000
rad41	4.23324e-66	1.000000	4.23324e-66	1.000000
rad47	1.30635e-72	1.000000	1.30635e-72	1.000000

0.100000000E-08 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.03204e-39 (1.00)	5.03204e-39 (1.00)
Formation of rad11	5.03203e-39 (1.000)	5.03203e-39 (1.000)
Formation of rad6	9.92181e-45 (1.97e-06)	9.92181e-45 (1.97e-06)
H-abstraction	3.33191e-55 (6.62e-17)	3.33191e-55 (6.62e-17)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987257	0.987257	0.987257	0.987257
C2H2+PhCH2	0.00826619	0.995523	0.00826619	0.995523
PhCCH+CH3	0.00221709	0.997740	0.00221709	0.997740
PhCHCCH2+H	0.00139905	0.999139	0.00139905	0.999139
PhCCCH3+H	0.000837660	0.999977	0.000837660	0.999977
Ph+MeAc	1.04507e-05	0.999987	1.04507e-05	0.999987
rad8	6.94466e-06	0.999994	6.94466e-06	0.999994
rad9	3.16725e-06	0.999998	3.16726e-06	0.999998
PAH7+H	1.80754e-06	0.999999	1.80754e-06	0.999999
rad30	4.41092e-07	1.000000	4.41092e-07	1.000000
rad12	2.16616e-07	1.000000	2.16616e-07	1.000000
rad39	1.75976e-07	1.000000	1.75976e-07	1.000000
PAH9+H	8.94084e-08	1.000000	8.94084e-08	1.000000
rad15	7.91493e-08	1.000000	7.91494e-08	1.000000
rad35	4.70030e-08	1.000000	4.70030e-08	1.000000
rad38	2.30004e-08	1.000000	2.30004e-08	1.000000
Phenyl+Allene	2.15096e-08	1.000000	0.000000	1.000000
rad46	1.50536e-10	1.000000	1.50536e-10	1.000000
rad60syn	3.53077e-12	1.000000	3.53077e-12	1.000000
rad28	2.14726e-14	1.000000	2.14726e-14	1.000000
rad6	1.79288e-14	1.000000	1.79288e-14	1.000000
rad26	5.15935e-15	1.000000	5.15935e-15	1.000000
rad60anti	5.73027e-16	1.000000	5.73027e-16	1.000000
Benzene+2-propynyl	6.62139e-17	1.000000	6.62139e-17	1.000000
rad2	2.10118e-17	1.000000	2.10118e-17	1.000000

rad10	1.46369e-18	1.00000	1.46369e-18	1.00000
rad1	1.32878e-18	1.00000	1.32878e-18	1.00000
rad7	1.29351e-18	1.00000	1.29351e-18	1.00000
rad14	8.52738e-19	1.00000	8.52738e-19	1.00000
rad25	4.12100e-19	1.00000	4.12100e-19	1.00000
rad11	3.27402e-19	1.00000	3.27402e-19	1.00000
rad3	2.48826e-19	1.00000	2.48826e-19	1.00000
rad4	1.25811e-19	1.00000	1.25811e-19	1.00000
rad27	4.66692e-20	1.00000	4.66692e-20	1.00000
rad13	7.19308e-21	1.00000	7.19308e-21	1.00000
PhCH2CCH+H	4.90639e-21	1.00000	4.90639e-21	1.00000
rad37	4.43275e-22	1.00000	4.43275e-22	1.00000
rad33	2.25779e-23	1.00000	2.25779e-23	1.00000
rad31	3.68994e-25	1.00000	3.68994e-25	1.00000
rad5	2.85156e-25	1.00000	2.85156e-25	1.00000
rad20	2.03122e-26	1.00000	2.03122e-26	1.00000
rad21	1.56783e-26	1.00000	1.56783e-26	1.00000
rad18	5.94068e-29	1.00000	5.94068e-29	1.00000
PAH3+H	5.07249e-30	1.00000	5.07249e-30	1.00000
rad22	4.39757e-30	1.00000	4.39757e-30	1.00000
rad59	2.71581e-30	1.00000	2.71581e-30	1.00000
rad23	1.73133e-30	1.00000	1.73133e-30	1.00000
rad50	1.09137e-30	1.00000	1.09137e-30	1.00000
rad45	8.71788e-33	1.00000	8.71788e-33	1.00000
rad24	5.20849e-33	1.00000	5.20849e-33	1.00000
rad36	5.42859e-34	1.00000	5.42859e-34	1.00000
rad19syn	4.14528e-39	1.00000	4.14528e-39	1.00000
rad52	4.97431e-43	1.00000	4.97431e-43	1.00000
rad54	4.86643e-44	1.00000	4.86643e-44	1.00000
PAH10+CH3	3.18313e-44	1.00000	3.18313e-44	1.00000
rad43	7.34466e-45	1.00000	7.34466e-45	1.00000
rad62	2.20650e-47	1.00000	2.20650e-47	1.00000
rad51	2.45781e-50	1.00000	2.45781e-50	1.00000
rad70	2.70047e-53	1.00000	2.70047e-53	1.00000
PhcycC3H3_A+H	1.14610e-53	1.00000	1.14610e-53	1.00000
rad55	6.16997e-54	1.00000	6.16997e-54	1.00000
rad65	1.67484e-55	1.00000	1.67484e-55	1.00000
rad58	3.85592e-57	1.00000	3.85592e-57	1.00000
PAH1+H	5.26552e-59	1.00000	5.26552e-59	1.00000
rad34	3.50169e-61	1.00000	3.50169e-61	1.00000
rad42	2.53352e-65	1.00000	2.53352e-65	1.00000
rad41	3.20409e-66	1.00000	3.20409e-66	1.00000
rad47	4.75804e-73	1.00000	4.75804e-73	1.00000

0.100000000E-08 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.35697e-33 (1.00)	9.35697e-33 (1.00)
Formation of rad11	9.35644e-33 (1.000)	9.35644e-33 (1.000)
Formation of rad6	5.26139e-37 (5.62e-05)	5.26138e-37 (5.62e-05)
H-abstraction	1.44763e-44 (1.55e-12)	1.44763e-44 (1.55e-12)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987032	0.987032	0.987032	0.987032
C2H2+PhCH2	0.00837914	0.995411	0.00837914	0.995411
PhCCH+CH3	0.00227543	0.997687	0.00227543	0.997687
PhCHCCH2+H	0.00143026	0.999117	0.00143026	0.999117
PhCCCH3+H	0.000858562	0.999975	0.000858562	0.999975
Ph+MeAc	1.13966e-05	0.999987	1.13966e-05	0.999987
rad8	7.17293e-06	0.999994	7.17293e-06	0.999994
rad9	3.31259e-06	0.999997	3.31259e-06	0.999997
PAH7+H	1.90153e-06	0.999999	1.90153e-06	0.999999
rad30	4.49659e-07	1.000000	4.49659e-07	1.000000
rad12	2.28411e-07	1.000000	2.28411e-07	1.000000
rad39	1.89313e-07	1.000000	1.89313e-07	1.000000
PAH9+H	9.13636e-08	1.000000	9.13636e-08	1.000000
rad15	8.10367e-08	1.000000	8.10367e-08	1.000000
rad35	4.79160e-08	1.000000	4.79160e-08	1.000000
Phenyl+Allene	3.50666e-08	1.000000	0.000000	1.000000
rad38	2.35533e-08	1.000000	2.35533e-08	1.000000
rad46	1.56541e-10	1.000000	1.56541e-10	1.000000
rad60syn	3.61896e-12	1.000000	3.61896e-12	1.000000
Benzene+2-propynyl	1.54712e-12	1.000000	1.54712e-12	1.000000
rad28	1.36084e-14	1.000000	1.36084e-14	1.000000
rad60anti	1.04345e-14	1.000000	1.04345e-14	1.000000
rad6	9.04757e-15	1.000000	9.04757e-15	1.000000
rad26	3.29278e-15	1.000000	3.29278e-15	1.000000
rad2	1.92855e-17	1.000000	1.92855e-17	1.000000

rad1	1.22114e-18	1.00000	1.22114e-18	1.00000
rad10	9.86959e-19	1.00000	9.86959e-19	1.00000
rad7	6.53215e-19	1.00000	6.53215e-19	1.00000
rad14	5.49820e-19	1.00000	5.49820e-19	1.00000
rad25	2.66447e-19	1.00000	2.66447e-19	1.00000
PhCH2CCH+H	2.60306e-19	1.00000	2.60306e-19	1.00000
rad3	1.94377e-19	1.00000	1.94377e-19	1.00000
rad11	1.67074e-19	1.00000	1.67074e-19	1.00000
rad4	9.83134e-20	1.00000	9.83134e-20	1.00000
rad27	3.02522e-20	1.00000	3.02522e-20	1.00000
rad13	3.63381e-21	1.00000	3.63381e-21	1.00000
rad37	1.73757e-21	1.00000	1.73757e-21	1.00000
rad33	1.28281e-23	1.00000	1.28281e-23	1.00000
rad5	5.53335e-25	1.00000	5.53335e-25	1.00000
rad31	2.54602e-25	1.00000	2.54602e-25	1.00000
rad20	1.36539e-26	1.00000	1.36539e-26	1.00000
rad21	1.05533e-26	1.00000	1.05533e-26	1.00000
rad18	3.95868e-29	1.00000	3.95868e-29	1.00000
PAH3+H	6.53176e-30	1.00000	6.53176e-30	1.00000
rad59	3.49584e-30	1.00000	3.49584e-30	1.00000
rad22	2.90960e-30	1.00000	2.90960e-30	1.00000
rad50	1.45848e-30	1.00000	1.45848e-30	1.00000
rad23	1.13305e-30	1.00000	1.13305e-30	1.00000
rad45	8.42499e-33	1.00000	8.42499e-33	1.00000
rad24	3.62482e-33	1.00000	3.62482e-33	1.00000
rad36	5.24344e-34	1.00000	5.24344e-34	1.00000
rad19syn	5.78408e-39	1.00000	5.78408e-39	1.00000
rad52	6.90211e-43	1.00000	6.90211e-43	1.00000
rad54	7.01767e-44	1.00000	7.01767e-44	1.00000
PAH10+CH3	4.64440e-44	1.00000	4.64440e-44	1.00000
rad43	1.07125e-44	1.00000	1.07125e-44	1.00000
rad62	3.26462e-47	1.00000	3.26462e-47	1.00000
rad51	3.61238e-50	1.00000	3.61238e-50	1.00000
rad70	4.15987e-53	1.00000	4.15987e-53	1.00000
PhcycC3H3_A+H	1.77329e-53	1.00000	1.77329e-53	1.00000
rad55	9.54218e-54	1.00000	9.54219e-54	1.00000
rad65	2.54344e-55	1.00000	2.54344e-55	1.00000
rad58	5.98889e-57	1.00000	5.98889e-57	1.00000
PAH1+H	8.49824e-59	1.00000	8.49824e-59	1.00000
rad34	5.70365e-61	1.00000	5.70365e-61	1.00000
rad42	4.27220e-65	1.00000	4.27220e-65	1.00000
rad41	5.55946e-66	1.00000	5.55946e-66	1.00000
rad47	5.12094e-73	1.00000	5.12094e-73	1.00000

0.100000000E-08 Pa, 50.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.52690e-29 (1.00)	5.52690e-29 (1.00)
Formation of rad11	5.52459e-29 (1.000)	5.52459e-29 (1.000)
Formation of rad6	2.30840e-32 (0.000418)	2.30840e-32 (0.000418)
H-abstraction	3.35357e-38 (6.07e-10)	3.35357e-38 (6.07e-10)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.986714	0.986714	0.986714	0.986714
C2H2+PhCH2	0.00853777	0.995252	0.00853777	0.995252
PhCCH+CH3	0.00235831	0.997610	0.00235831	0.997610
PhCHCCH2+H	0.00147439	0.999084	0.00147439	0.999084
PhCCCH3+H	0.000888170	0.999973	0.000888171	0.999973
Ph+MeAc	1.28114e-05	0.999985	1.28114e-05	0.999985
rad8	7.50115e-06	0.999993	7.50115e-06	0.999993
rad9	3.52527e-06	0.999996	3.52527e-06	0.999996
PAH7+H	2.03772e-06	0.999999	2.03772e-06	0.999999
rad30	4.61782e-07	0.999999	4.61782e-07	0.999999
rad12	2.45026e-07	0.999999	2.45026e-07	0.999999
rad39	2.09458e-07	0.999999	2.09458e-07	0.999999
PAH9+H	9.41437e-08	1.000000	9.41437e-08	1.000000
rad15	8.37244e-08	1.000000	8.37244e-08	1.000000
Phenyl+Allene	5.86047e-08	1.000000	0.000000	1.000000
rad35	4.92106e-08	1.000000	4.92106e-08	1.000000
rad38	2.43415e-08	1.000000	2.43415e-08	1.000000
Benzene+2-propynyl	6.06773e-10	1.000000	6.06773e-10	1.000000
rad46	1.65326e-10	1.000000	1.65326e-10	1.000000
rad60syn	3.93847e-12	1.000000	3.93847e-12	1.000000
rad60anti	5.61970e-14	1.000000	5.61970e-14	1.000000
rad28	9.57229e-15	1.000000	9.57229e-15	1.000000
rad6	5.53472e-15	1.000000	5.53473e-15	1.000000
rad26	2.32541e-15	1.000000	2.32542e-15	1.000000
PhCH2CCH+H	1.27590e-16	1.000000	1.27591e-16	1.000000

rad2	2.35126e-17	1.000000	2.35126e-17	1.000000
rad37	3.03384e-18	1.000000	3.03384e-18	1.000000
rad1	1.49129e-18	1.000000	1.49129e-18	1.000000
rad10	8.00192e-19	1.000000	8.00192e-19	1.000000
rad7	3.99982e-19	1.000000	3.99982e-19	1.000000
rad14	3.93142e-19	1.000000	3.93142e-19	1.000000
rad3	3.17383e-19	1.000000	3.17383e-19	1.000000
rad25	1.91262e-19	1.000000	1.91262e-19	1.000000
rad4	1.60600e-19	1.000000	1.60600e-19	1.000000
rad11	1.03216e-19	1.000000	1.03216e-19	1.000000
rad27	2.17997e-20	1.000000	2.17997e-20	1.000000
rad13	2.22624e-21	1.000000	2.22624e-21	1.000000
rad5	9.79848e-22	1.000000	9.79848e-22	1.000000
rad33	8.64566e-24	1.000000	8.64566e-24	1.000000
rad31	2.01344e-25	1.000000	2.01344e-25	1.000000
rad20	1.03621e-26	1.000000	1.03621e-26	1.000000
rad21	8.02453e-27	1.000000	8.02453e-27	1.000000
PAH3+H	1.61313e-27	1.000000	1.61313e-27	1.000000
rad50	1.19752e-27	1.000000	1.19752e-27	1.000000
rad59	8.65657e-28	1.000000	8.65657e-28	1.000000
rad18	2.96714e-29	1.000000	2.96714e-29	1.000000
rad22	2.15981e-30	1.000000	2.15981e-30	1.000000
rad23	8.52704e-31	1.000000	8.52704e-31	1.000000
rad45	8.16742e-33	1.000000	8.16742e-33	1.000000
rad24	2.88912e-33	1.000000	2.88912e-33	1.000000
rad36	5.07862e-34	1.000000	5.07862e-34	1.000000
rad19syn	1.57209e-38	1.000000	1.57209e-38	1.000000
rad52	1.86131e-42	1.000000	1.86131e-42	1.000000
rad54	1.99807e-43	1.000000	1.99807e-43	1.000000
PAH10+CH3	1.35871e-43	1.000000	1.35871e-43	1.000000
rad43	3.13226e-44	1.000000	3.13226e-44	1.000000
rad62	9.70526e-47	1.000000	9.70526e-47	1.000000
rad51	1.05662e-49	1.000000	1.05662e-49	1.000000
rad70	1.30003e-52	1.000000	1.30003e-52	1.000000
PhcycC3H3_A+H	5.57650e-53	1.000000	5.57650e-53	1.000000
rad55	2.99882e-53	1.000000	2.99882e-53	1.000000
rad65	7.79130e-55	1.000000	7.79130e-55	1.000000
rad58	1.89353e-56	1.000000	1.89353e-56	1.000000
PAH1+H	2.83836e-58	1.000000	2.83836e-58	1.000000
rad34	1.92871e-60	1.000000	1.92871e-60	1.000000
rad42	1.55923e-64	1.000000	1.55923e-64	1.000000
rad41	2.24576e-65	1.000000	2.24576e-65	1.000000
rad47	1.27788e-72	1.000000	1.27788e-72	1.000000

0.100000000E-08 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.83429e-26 (1.00)	1.83429e-26 (1.00)
Formation of rad11	1.83139e-26 (0.998)	1.83139e-26 (0.998)
Formation of rad6	2.90471e-29 (0.00158)	2.90471e-29 (0.00158)
H-abstraction	5.71259e-34 (3.11e-08)	5.71259e-34 (3.11e-08)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.986327	0.986327	0.986327	0.986327
C2H2+PhCH2	0.00873016	0.995057	0.00873016	0.995057
PhCCH+CH3	0.00246043	0.997518	0.00246043	0.997518
PhCHCCH2+H	0.00152845	0.999046	0.00152845	0.999046
PhCCCH3+H	0.000924508	0.999971	0.000924508	0.999971
Ph+MeAc	1.46763e-05	0.999985	1.46763e-05	0.999985
rad8	7.91054e-06	0.999993	7.91054e-06	0.999993
rad9	3.79613e-06	0.999997	3.79613e-06	0.999997
PAH7+H	2.21018e-06	0.999999	2.21018e-06	0.999999
rad30	4.76631e-07	1.000000	4.76631e-07	1.000000
rad12	2.65645e-07	1.000000	2.65645e-07	1.000000
rad39	2.35969e-07	1.000000	2.35969e-07	1.000000
PAH9+H	9.75722e-08	1.000000	9.75722e-08	1.000000
Phenyl+Allene	9.48897e-08	1.000000	0.000000	1.000000
rad15	8.70445e-08	1.000000	8.70445e-08	1.000000
rad35	5.08007e-08	1.000000	5.08007e-08	1.000000
Benzene+2-propynyl	3.11432e-08	1.000000	3.11432e-08	1.000000
rad38	2.53170e-08	1.000000	2.53170e-08	1.000000
rad46	1.76542e-10	1.000000	1.76542e-10	1.000000
rad60syn	4.52403e-12	1.000000	4.52403e-12	1.000000
rad60anti	1.68171e-13	1.000000	1.68171e-13	1.000000
PhCH2CCH+H	8.28082e-15	1.000000	8.28082e-15	1.000000
rad28	7.10650e-15	1.000000	7.10650e-15	1.000000
rad6	3.73788e-15	1.000000	3.73788e-15	1.000000
rad26	1.73130e-15	1.000000	1.73131e-15	1.000000

rad37	5.31840e-16	1.00000	5.31840e-16	1.00000
rad2	4.77409e-18	1.00000	4.77409e-18	1.00000
rad10	4.96117e-19	1.00000	4.96117e-19	1.00000
rad1	3.03467e-19	1.00000	3.03467e-19	1.00000
rad14	2.96864e-19	1.00000	2.96864e-19	1.00000
rad5	2.78951e-19	1.00000	2.78951e-19	1.00000
rad7	2.70442e-19	1.00000	2.70442e-19	1.00000
rad25	1.45098e-19	1.00000	1.45098e-19	1.00000
rad11	7.03538e-20	1.00000	7.03538e-20	1.00000
rad3	3.86264e-20	1.00000	3.86264e-20	1.00000
rad4	1.95554e-20	1.00000	1.95554e-20	1.00000
rad27	1.66183e-20	1.00000	1.66183e-20	1.00000
rad13	1.50621e-21	1.00000	1.50621e-21	1.00000
rad33	6.36732e-24	1.00000	6.36732e-24	1.00000
PAH3+H	2.18877e-24	1.00000	2.18877e-24	1.00000
rad59	1.18341e-24	1.00000	1.18342e-24	1.00000
rad50	7.40083e-25	1.00000	7.40083e-25	1.00000
rad31	1.72791e-25	1.00000	1.72791e-25	1.00000
rad20	8.41301e-27	1.00000	8.41301e-27	1.00000
rad21	6.53064e-27	1.00000	6.53064e-27	1.00000
rad18	2.37219e-29	1.00000	2.37219e-29	1.00000
rad22	1.70661e-30	1.00000	1.70661e-30	1.00000
rad23	6.94619e-31	1.00000	6.94619e-31	1.00000
rad45	2.51529e-33	1.00000	2.51529e-33	1.00000
rad24	2.48965e-33	1.00000	2.48965e-33	1.00000
rad36	1.56281e-34	1.00000	1.56281e-34	1.00000
rad19syn	1.05336e-37	1.00000	1.05336e-37	1.00000
rad52	1.23556e-41	1.00000	1.23556e-41	1.00000
rad54	1.41600e-42	1.00000	1.41600e-42	1.00000
PAH10+CH3	1.00797e-42	1.00000	1.00797e-42	1.00000
rad43	2.32252e-43	1.00000	2.32252e-43	1.00000
rad62	7.32968e-46	1.00000	7.32968e-46	1.00000
rad51	7.73860e-49	1.00000	7.73860e-49	1.00000
rad70	1.03161e-51	1.00000	1.03161e-51	1.00000
PhcycC3H3_A+H	4.45897e-52	1.00000	4.45897e-52	1.00000
rad55	2.39591e-52	1.00000	2.39591e-52	1.00000
rad65	6.03644e-54	1.00000	6.03644e-54	1.00000
rad58	1.52405e-55	1.00000	1.52405e-55	1.00000
PAH1+H	2.44636e-57	1.00000	2.44637e-57	1.00000
rad34	1.68595e-59	1.00000	1.68595e-59	1.00000
rad42	1.65433e-63	1.00000	1.65433e-63	1.00000
rad41	3.15075e-64	1.00000	3.15075e-64	1.00000
rad47	8.72603e-72	1.00000	8.72603e-72	1.00000

0.100000000E-08 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17336e-24 (1.00)	1.17336e-24 (1.00)
Formation of rad11	1.16857e-24 (0.996)	1.16857e-24 (0.996)
Formation of rad6	4.79505e-27 (0.00409)	4.79505e-27 (0.00409)
H-abstraction	5.89821e-31 (5.03e-07)	5.89821e-31 (5.03e-07)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.985878	0.985878	0.985878	0.985878
C2H2+PhCH2	0.00895096	0.994828	0.00895096	0.994828
PhCCH+CH3	0.00257991	0.997408	0.00257991	0.997408
PhCHCCH2+H	0.00159125	0.999000	0.00159125	0.999000
PhCCCH3+H	0.000966821	0.999966	0.000966821	0.999966
Ph+MeAc	1.70376e-05	0.999983	1.70376e-05	0.999983
rad8	8.39501e-06	0.999992	8.39501e-06	0.999992
rad9	4.12418e-06	0.999996	4.12418e-06	0.999996
PAH7+H	2.41880e-06	0.999998	2.41880e-06	0.999998
Benzene+2-propynyl	5.02676e-07	0.999999	5.02676e-07	0.999999
rad30	4.93878e-07	0.999999	4.93878e-07	0.999999
rad12	2.90306e-07	1.000000	2.90306e-07	1.000000
rad39	2.69236e-07	1.000000	2.69236e-07	1.000000
Phenyl+Allene	1.48371e-07	1.000000	0.000000	1.000000
PAH9+H	1.01589e-07	1.000000	1.01589e-07	1.000000
rad15	9.09387e-08	1.000000	9.09387e-08	1.000000
rad35	5.26537e-08	1.000000	5.26537e-08	1.000000
rad38	2.64647e-08	1.000000	2.64647e-08	1.000000
rad46	1.90211e-10	1.000000	1.90211e-10	1.000000
rad60syn	5.38175e-12	1.000000	5.38175e-12	1.000000
rad60anti	3.67499e-13	1.000000	3.67499e-13	1.000000
PhCH2CCH+H	1.68850e-13	1.000000	1.68850e-13	1.000000
rad37	2.03302e-14	1.000000	2.03302e-14	1.000000
rad28	5.45653e-15	1.000000	5.45653e-15	1.000000
rad6	2.68207e-15	1.000000	2.68207e-15	1.000000

rad26	1.33240e-15	1.00000	1.33240e-15	1.00000
rad2	1.90022e-17	1.00000	1.90022e-17	1.00000
rad5	1.57196e-17	1.00000	1.57196e-17	1.00000
rad1	1.21079e-18	1.00000	1.21079e-18	1.00000
rad10	8.05271e-19	1.00000	8.05271e-19	1.00000
rad3	3.44219e-19	1.00000	3.44219e-19	1.00000
rad14	2.31992e-19	1.00000	2.31992e-19	1.00000
rad7	1.94306e-19	1.00000	1.94306e-19	1.00000
rad4	1.74386e-19	1.00000	1.74386e-19	1.00000
rad25	1.13983e-19	1.00000	1.13983e-19	1.00000
rad11	5.09360e-20	1.00000	5.09360e-20	1.00000
rad27	1.31284e-20	1.00000	1.31284e-20	1.00000
rad13	1.08297e-21	1.00000	1.08297e-21	1.00000
PAH3+H	3.72325e-22	1.00000	3.72325e-22	1.00000
rad59	1.99036e-22	1.00000	1.99036e-22	1.00000
rad50	7.20079e-23	1.00000	7.20079e-23	1.00000
rad33	4.95629e-24	1.00000	4.95629e-24	1.00000
rad31	1.57078e-25	1.00000	1.57078e-25	1.00000
rad20	7.13729e-27	1.00000	7.13729e-27	1.00000
rad21	5.55554e-27	1.00000	5.55554e-27	1.00000
rad18	1.97687e-29	1.00000	1.97687e-29	1.00000
rad22	1.40333e-30	1.00000	1.40333e-30	1.00000
rad23	6.00762e-31	1.00000	6.00762e-31	1.00000
rad45	3.17862e-33	1.00000	3.17862e-33	1.00000
rad24	2.25971e-33	1.00000	2.25971e-33	1.00000
rad36	1.97377e-34	1.00000	1.97377e-34	1.00000
rad19syn	2.18150e-36	1.00000	2.18150e-36	1.00000
rad52	2.53270e-40	1.00000	2.53270e-40	1.00000
rad54	3.12184e-41	1.00000	3.12184e-41	1.00000
PAH10+CH3	2.29048e-41	1.00000	2.29048e-41	1.00000
rad43	5.27455e-42	1.00000	5.27455e-42	1.00000
rad62	1.72163e-44	1.00000	1.72163e-44	1.00000
rad51	1.77099e-47	1.00000	1.77099e-47	1.00000
rad70	2.58423e-50	1.00000	2.58423e-50	1.00000
PhcycC3H3_A+H	1.12681e-50	1.00000	1.12681e-50	1.00000
rad55	6.04868e-51	1.00000	6.04868e-51	1.00000
rad65	1.47263e-52	1.00000	1.47263e-52	1.00000
rad58	3.88046e-54	1.00000	3.88046e-54	1.00000
PAH1+H	6.75983e-56	1.00000	6.75983e-56	1.00000
rad34	4.72998e-58	1.00000	4.72998e-58	1.00000
rad42	6.62837e-62	1.00000	6.62837e-62	1.00000
rad41	1.78772e-62	1.00000	1.78772e-62	1.00000
rad47	1.97819e-70	1.00000	1.97819e-70	1.00000

0.100000000E-08 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.68112e-23 (1.00)	2.68112e-23 (1.00)
Formation of rad11	2.65890e-23 (0.992)	2.65889e-23 (0.992)
Formation of rad6	2.22189e-25 (0.00829)	2.22189e-25 (0.00829)
H-abstraction	1.05871e-28 (3.95e-06)	1.05871e-28 (3.95e-06)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.985363	0.985363	0.985364	0.985364
C2H2+PhCH2	0.00919942	0.994563	0.00919942	0.994564
PhCCH+CH3	0.00271725	0.997280	0.00271725	0.997281
PhCHCCH2+H	0.00166288	0.998943	0.00166288	0.998944
PhCCCH3+H	0.00101520	0.999958	0.00101520	0.999959
Ph+MeAc	1.99950e-05	0.999978	1.99950e-05	0.999979
rad8	8.95784e-06	0.999987	8.95784e-06	0.999988
rad9	4.51495e-06	0.999991	4.51495e-06	0.999992
Benzene+2-propynyl	3.94877e-06	0.999995	3.94877e-06	0.999996
PAH7+H	2.66790e-06	0.999998	2.66790e-06	0.999999
rad30	5.13552e-07	0.999998	5.13552e-07	0.999999
rad12	3.19534e-07	0.999999	3.19534e-07	1.000000
rad39	3.10416e-07	0.999999	3.10416e-07	1.000000
Phenyl+Allene	2.25648e-07	0.999999	0.000000	1.000000
PAH9+H	1.06216e-07	0.999999	1.06216e-07	1.000000
rad15	9.54271e-08	1.000000	9.54272e-08	1.000000
rad35	5.47755e-08	1.000000	5.47755e-08	1.000000
rad38	2.77934e-08	1.000000	2.77934e-08	1.000000
rad46	2.06654e-10	1.000000	2.06654e-10	1.000000
rad60syn	6.54544e-12	1.000000	6.54544e-12	1.000000
PhCH2CCH+H	1.67903e-12	1.000000	1.67903e-12	1.000000
rad60anti	6.70981e-13	1.000000	6.70981e-13	1.000000
rad37	3.02078e-13	1.000000	3.02078e-13	1.000000
rad28	4.28670e-15	1.000000	4.28670e-15	1.000000
rad6	2.00435e-15	1.000000	2.00435e-15	1.000000

rad26	1.04888e-15	1.000000	1.04888e-15	1.000000
rad5	3.25252e-16	1.000000	3.25252e-16	1.000000
rad2	6.65573e-18	1.000000	6.65573e-18	1.000000
rad1	4.25331e-19	1.000000	4.25331e-19	1.000000
rad10	4.12706e-19	1.000000	4.12706e-19	1.000000
rad14	1.85606e-19	1.000000	1.85606e-19	1.000000
rad7	1.45413e-19	1.000000	1.45413e-19	1.000000
rad25	9.17052e-20	1.000000	9.17053e-20	1.000000
rad3	6.12851e-20	1.000000	6.12851e-20	1.000000
rad11	3.84044e-20	1.000000	3.84045e-20	1.000000
rad4	3.10725e-20	1.000000	3.10725e-20	1.000000
PAH3+H	1.74250e-20	1.000000	1.74251e-20	1.000000
rad27	1.06292e-20	1.000000	1.06292e-20	1.000000
rad59	9.08289e-21	1.000000	9.08289e-21	1.000000
rad50	2.22904e-21	1.000000	2.22904e-21	1.000000
rad13	8.11126e-22	1.000000	8.11126e-22	1.000000
rad33	4.00756e-24	1.000000	4.00756e-24	1.000000
rad31	1.49182e-25	1.000000	1.49182e-25	1.000000
rad20	6.24554e-27	1.000000	6.24554e-27	1.000000
rad21	4.87621e-27	1.000000	4.87621e-27	1.000000
rad19syn	3.50612e-28	1.000000	3.50612e-28	1.000000
rad18	1.69563e-29	1.000000	1.69563e-29	1.000000
rad22	1.18608e-30	1.000000	1.18608e-30	1.000000
rad23	5.43191e-31	1.000000	5.43191e-31	1.000000
rad52	3.70715e-32	1.000000	3.70715e-32	1.000000
rad45	7.02922e-33	1.000000	7.02923e-33	1.000000
rad24	2.12910e-33	1.000000	2.12910e-33	1.000000
rad36	4.36255e-34	1.000000	4.36255e-34	1.000000
rad54	3.49089e-39	1.000000	3.49089e-39	1.000000
PAH10+CH3	2.43957e-39	1.000000	2.43957e-39	1.000000
rad43	5.61231e-40	1.000000	5.61231e-40	1.000000
rad62	1.94490e-42	1.000000	1.94490e-42	1.000000
rad51	2.05856e-45	1.000000	2.05856e-45	1.000000
rad70	3.29966e-48	1.000000	3.29966e-48	1.000000
PhcycC3H3_A+H	1.45182e-48	1.000000	1.45182e-48	1.000000
rad55	7.78513e-49	1.000000	7.78514e-49	1.000000
rad65	1.82933e-50	1.000000	1.82933e-50	1.000000
rad58	5.03851e-52	1.000000	5.03851e-52	1.000000
PAH1+H	9.56462e-54	1.000000	9.56462e-54	1.000000
rad34	6.78732e-56	1.000000	6.78732e-56	1.000000
rad42	1.11817e-59	1.000000	1.11817e-59	1.000000
rad41	3.34149e-60	1.000000	3.34149e-60	1.000000
rad47	2.35422e-68	1.000000	2.35422e-68	1.000000

0.100000000E-08 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.08379e-22 (1.00)	3.08379e-22 (1.00)
Formation of rad11	3.03962e-22 (0.986)	3.03962e-22 (0.986)
Formation of rad6	4.41076e-24 (0.0143)	4.41076e-24 (0.0143)
H-abstraction	5.92916e-27 (1.92e-05)	5.92916e-27 (1.92e-05)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.984773	0.984773	0.984773	0.984773
C2H2+PhCH2	0.00947690	0.994250	0.00947690	0.994250
PhCCH+CH3	0.00287402	0.997124	0.00287402	0.997124
PhCHCCH2+H	0.00174398	0.998868	0.00174398	0.998868
PhCCCH3+H	0.00107007	0.999938	0.00107007	0.999938
Ph+MeAc	2.36841e-05	0.999962	2.36841e-05	0.999962
Benzene+2-propynyl	1.92269e-05	0.999981	1.92269e-05	0.999981
rad8	9.60693e-06	0.999991	9.60693e-06	0.999991
rad9	4.97780e-06	0.999996	4.97780e-06	0.999996
PAH7+H	2.96439e-06	0.999998	2.96439e-06	0.999998
rad30	5.35851e-07	0.999999	5.35851e-07	0.999999
rad39	3.61180e-07	0.999999	3.61180e-07	0.999999
rad12	3.54060e-07	1.000000	3.54060e-07	1.000000
Phenyl+Allene	3.35707e-07	1.000000	0.000000	1.000000
PAH9+H	1.11519e-07	1.000000	1.11519e-07	1.000000
rad15	1.00570e-07	1.000000	1.00570e-07	1.000000
rad35	5.71907e-08	1.000000	5.71908e-08	1.000000
rad38	2.93241e-08	1.000000	2.93241e-08	1.000000
rad46	2.26382e-10	1.000000	2.26382e-10	1.000000
PhCH2CCH+H	1.03766e-11	1.000000	1.03766e-11	1.000000
rad60syn	8.08811e-12	1.000000	8.08812e-12	1.000000
rad37	2.40347e-12	1.000000	2.40347e-12	1.000000
rad60anti	1.09983e-12	1.000000	1.09983e-12	1.000000
rad5	3.47577e-15	1.000000	3.47577e-15	1.000000
rad28	3.42275e-15	1.000000	3.42275e-15	1.000000

rad6	1.54154e-15	1.00000	1.54154e-15	1.00000
rad26	8.39045e-16	1.00000	8.39046e-16	1.00000
rad2	6.68392e-18	1.00000	6.68392e-18	1.00000
rad10	5.43103e-19	1.00000	5.43104e-19	1.00000
rad1	4.28417e-19	1.00000	4.28417e-19	1.00000
PAH3+H	3.47530e-19	1.00000	3.47530e-19	1.00000
rad59	1.74970e-19	1.00000	1.74970e-19	1.00000
rad14	1.51005e-19	1.00000	1.51005e-19	1.00000
rad7	1.12007e-19	1.00000	1.12007e-19	1.00000
rad25	7.50530e-20	1.00000	7.50530e-20	1.00000
rad3	4.65767e-20	1.00000	4.65767e-20	1.00000
rad50	3.24534e-20	1.00000	3.24534e-20	1.00000
rad11	2.98012e-20	1.00000	2.98012e-20	1.00000
rad4	2.36310e-20	1.00000	2.36310e-20	1.00000
rad27	8.75890e-21	1.00000	8.75890e-21	1.00000
rad13	6.25335e-22	1.00000	6.25336e-22	1.00000
rad33	3.33141e-24	1.00000	3.33141e-24	1.00000
rad31	1.46794e-25	1.00000	1.46794e-25	1.00000
rad19syn	1.46097e-25	1.00000	1.46097e-25	1.00000
rad20	5.59189e-27	1.00000	5.59189e-27	1.00000
rad21	4.38037e-27	1.00000	4.38037e-27	1.00000
rad18	1.48519e-29	1.00000	1.48519e-29	1.00000
rad52	1.23076e-29	1.00000	1.23076e-29	1.00000
rad54	6.85399e-30	1.00000	6.85400e-30	1.00000
PAH10+CH3	3.92949e-30	1.00000	3.92949e-30	1.00000
rad22	1.02241e-30	1.00000	1.02242e-30	1.00000
rad43	9.86337e-31	1.00000	9.86338e-31	1.00000
rad23	5.16223e-31	1.00000	5.16223e-31	1.00000
rad24	2.06374e-33	1.00000	2.06375e-33	1.00000
rad45	1.35266e-33	1.00000	1.35266e-33	1.00000
rad36	8.38727e-35	1.00000	8.38728e-35	1.00000
rad62	7.45638e-40	1.00000	7.45638e-40	1.00000
rad51	8.13631e-43	1.00000	8.13632e-43	1.00000
rad70	1.43688e-45	1.00000	1.43688e-45	1.00000
PhcycC3H3_A+H	6.38006e-46	1.00000	6.38006e-46	1.00000
rad55	3.41746e-46	1.00000	3.41746e-46	1.00000
rad65	7.73695e-48	1.00000	7.73695e-48	1.00000
rad58	2.23135e-49	1.00000	2.23135e-49	1.00000
PAH1+H	4.59903e-51	1.00000	4.59903e-51	1.00000
rad34	3.31277e-53	1.00000	3.31277e-53	1.00000
rad42	5.22348e-57	1.00000	5.22348e-57	1.00000
rad41	1.49027e-57	1.00000	1.49027e-57	1.00000
rad47	9.71393e-66	1.00000	9.71394e-66	1.00000

0.100000000E-08 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.19347e-21 (1.00)	2.19347e-21 (1.00)
Formation of rad11	2.14498e-21 (0.978)	2.14497e-21 (0.978)
Formation of rad6	4.83503e-23 (0.0220)	4.83503e-23 (0.0220)
H-abstraction	1.47101e-25 (6.71e-05)	1.47101e-25 (6.71e-05)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.984079	0.984079	0.984079	0.984079
C2H2+PhCH2	0.00978519	0.993864	0.00978520	0.993864
PhCCH+CH3	0.00305206	0.996916	0.00305206	0.996916
PhCHCCH2+H	0.00183526	0.998752	0.00183526	0.998752
PhCCCH3+H	0.00113197	0.999883	0.00113197	0.999883
Benzene+2-propynyl	6.70630e-05	0.999951	6.70630e-05	0.999951
Ph+MeAc	2.82652e-05	0.999979	2.82652e-05	0.999979
rad8	1.03516e-05	0.999989	1.03516e-05	0.999989
rad9	5.52404e-06	0.999995	5.52404e-06	0.999995
PAH7+H	3.31665e-06	0.999998	3.31666e-06	0.999998
rad30	5.61025e-07	0.999999	5.61025e-07	0.999999
Phenyl+Allene	4.90183e-07	0.999999	0.00000	0.999999
rad39	4.23541e-07	0.999999	4.23541e-07	0.999999
rad12	3.94678e-07	1.000000	3.94678e-07	0.999999
PAH9+H	1.17578e-07	1.000000	1.17578e-07	1.000000
rad15	1.06440e-07	1.000000	1.06440e-07	1.000000
rad35	5.99303e-08	1.000000	5.99303e-08	1.000000
rad38	3.10828e-08	1.000000	3.10828e-08	1.000000
rad46	2.50022e-10	1.000000	2.50022e-10	1.000000
PhCH2CCH+H	4.60547e-11	1.000000	4.60547e-11	1.000000
rad37	1.24003e-11	1.000000	1.24003e-11	1.000000
rad60syn	1.01172e-11	1.000000	1.01172e-11	1.000000
rad60anti	1.68511e-12	1.000000	1.68511e-12	1.000000
rad5	2.34974e-14	1.000000	2.34974e-14	1.000000
rad28	2.76520e-15	1.000000	2.76520e-15	1.000000

rad6	1.21074e-15	1.00000	1.21074e-15	1.000000
rad26	6.79064e-16	1.00000	6.79064e-16	1.000000
PAH3+H	3.83495e-18	1.00000	3.83496e-18	1.000000
rad2	2.22604e-18	1.00000	2.22605e-18	1.000000
rad59	1.85459e-18	1.00000	1.85460e-18	1.000000
rad10	3.36962e-19	1.00000	3.36962e-19	1.000000
rad50	2.80692e-19	1.00000	2.80692e-19	1.000000
rad1	1.43158e-19	1.00000	1.43159e-19	1.000000
rad14	1.24371e-19	1.00000	1.24371e-19	1.000000
rad7	8.81122e-20	1.00000	8.81123e-20	1.000000
rad25	6.21993e-20	1.00000	6.21993e-20	1.000000
rad11	2.36188e-20	1.00000	2.36188e-20	1.000000
rad3	1.08947e-20	1.00000	1.08947e-20	1.000000
rad27	7.31235e-21	1.00000	7.31235e-21	1.000000
rad4	5.53218e-21	1.00000	5.53218e-21	1.000000
rad13	4.92403e-22	1.00000	4.92403e-22	1.000000
rad19syn	1.69256e-23	1.00000	1.69256e-23	1.000000
rad33	2.82806e-24	1.00000	2.82806e-24	1.000000
rad31	1.48793e-25	1.00000	1.48793e-25	1.000000
rad20	5.09551e-27	1.00000	5.09551e-27	1.000000
rad21	4.00579e-27	1.00000	4.00580e-27	1.000000
rad54	3.44315e-27	1.00000	3.44316e-27	1.000000
PAH10+CH3	2.22551e-27	1.00000	2.22551e-27	1.000000
rad52	1.20084e-27	1.00000	1.20084e-27	1.000000
rad43	5.29879e-28	1.00000	5.29880e-28	1.000000
rad18	1.32144e-29	1.00000	1.32144e-29	1.000000
rad62	6.92562e-30	1.00000	6.92563e-30	1.000000
rad22	8.94251e-31	1.00000	8.94251e-31	1.000000
rad23	5.12971e-31	1.00000	5.12971e-31	1.000000
rad51	7.64880e-33	1.00000	7.64881e-33	1.000000
rad24	2.04587e-33	1.00000	2.04587e-33	1.000000
rad45	1.61954e-33	1.00000	1.61954e-33	1.000000
rad36	1.00385e-34	1.00000	1.00386e-34	1.000000
rad70	1.30428e-42	1.00000	1.30428e-42	1.000000
PhcycC3H3_A+H	5.84620e-43	1.00000	5.84620e-43	1.000000
rad55	3.12785e-43	1.00000	3.12785e-43	1.000000
rad65	6.80770e-45	1.00000	6.80770e-45	1.000000
rad58	2.06092e-46	1.00000	2.06092e-46	1.000000
PAH1+H	4.61601e-48	1.00000	4.61601e-48	1.000000
rad34	3.37655e-50	1.00000	3.37655e-50	1.000000
rad42	4.72658e-54	1.00000	4.72658e-54	1.000000
rad41	1.17343e-54	1.00000	1.17343e-54	1.000000
rad47	8.46296e-63	1.00000	8.46296e-63	1.000000

0.100000000E-08 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.09987e-20 (1.00)	1.09987e-20 (1.00)
Formation of rad11	1.06527e-20 (0.969)	1.06526e-20 (0.969)
Formation of rad6	3.44008e-22 (0.0313)	3.44007e-22 (0.0313)
H-abstraction	2.02040e-24 (0.000184)	2.02040e-24 (0.000184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.983241	0.983241	0.983241	0.983241
C2H2+PhCH2	0.0101260	0.993367	0.0101260	0.993367
PhCCH+CH3	0.00325307	0.996620	0.00325307	0.996620
PhCHCCH2+H	0.00193740	0.998558	0.00193740	0.998558
PhCCCH3+H	0.00120137	0.999759	0.00120137	0.999759
Benzene+2-propynyl	0.000183695	0.999943	0.000183695	0.999943
Ph+MeAc	3.39188e-05	0.999977	3.39188e-05	0.999977
rad8	1.12010e-05	0.999988	1.12010e-05	0.999988
rad9	6.16609e-06	0.999994	6.16609e-06	0.999994
PAH7+H	3.73401e-06	0.999998	3.73402e-06	0.999998
Phenyl+Allene	7.03851e-07	0.999999	0.00000	0.999999
rad30	5.89325e-07	0.999999	5.89326e-07	0.999999
rad39	4.99786e-07	1.000000	4.99787e-07	0.999999
rad12	4.42199e-07	1.000000	4.42200e-07	0.999999
PAH9+H	1.24478e-07	1.000000	1.24478e-07	1.000000
rad15	1.13116e-07	1.000000	1.13117e-07	1.000000
rad35	6.30259e-08	1.000000	6.30259e-08	1.000000
rad38	3.30972e-08	1.000000	3.30972e-08	1.000000
rad46	2.78306e-10	1.000000	2.78306e-10	1.000000
PhCH2CCH+H	1.60863e-10	1.000000	1.60864e-10	1.000000
rad37	4.68309e-11	1.000000	4.68309e-11	1.000000
rad60syn	1.27711e-11	1.000000	1.27712e-11	1.000000
rad60anti	2.47073e-12	1.000000	2.47073e-12	1.000000
rad5	1.14181e-13	1.000000	1.14181e-13	1.000000
rad28	2.25336e-15	1.000000	2.25337e-15	1.000000

rad6	9.66020e-16	1.00000	9.66021e-16	1.000000
rad26	5.54330e-16	1.00000	5.54330e-16	1.000000
PAH3+H	2.76229e-17	1.00000	2.76229e-17	1.000000
rad59	1.27985e-17	1.00000	1.27986e-17	1.000000
rad2	4.36724e-18	1.00000	4.36725e-18	1.000000
rad3	4.20588e-18	1.00000	4.20588e-18	1.000000
rad4	2.13767e-18	1.00000	2.13767e-18	1.000000
rad50	1.67195e-18	1.00000	1.67195e-18	1.000000
rad10	3.28770e-19	1.00000	3.28770e-19	1.000000
rad1	2.81891e-19	1.00000	2.81892e-19	1.000000
rad14	1.03376e-19	1.00000	1.03376e-19	1.000000
rad7	7.04203e-20	1.00000	7.04203e-20	1.000000
rad25	5.20342e-20	1.00000	5.20342e-20	1.000000
rad11	1.90197e-20	1.00000	1.90198e-20	1.000000
rad27	6.16513e-21	1.00000	6.16514e-21	1.000000
rad19syn	8.11793e-22	1.00000	8.11794e-22	1.000000
rad13	3.93937e-22	1.00000	3.93937e-22	1.000000
rad33	2.44066e-24	1.00000	2.44066e-24	1.000000
rad54	3.80819e-25	1.00000	3.80819e-25	1.000000
PAH10+CH3	2.48851e-25	1.00000	2.48851e-25	1.000000
rad31	1.54822e-25	1.00000	1.54822e-25	1.000000
rad43	5.95378e-26	1.00000	5.95378e-26	1.000000
rad52	5.03875e-26	1.00000	5.03876e-26	1.000000
rad20	4.70844e-27	1.00000	4.70845e-27	1.000000
rad21	3.71569e-27	1.00000	3.71569e-27	1.000000
rad62	1.37871e-27	1.00000	1.37871e-27	1.000000
rad18	1.19003e-29	1.00000	1.19003e-29	1.000000
rad51	1.43630e-30	1.00000	1.43630e-30	1.000000
rad22	7.90793e-31	1.00000	7.90793e-31	1.000000
rad23	5.38823e-31	1.00000	5.38823e-31	1.000000
rad45	4.31032e-33	1.00000	4.31032e-33	1.000000
rad24	2.06609e-33	1.00000	2.06609e-33	1.000000
rad36	2.67118e-34	1.00000	2.67118e-34	1.000000
rad65	1.70795e-34	1.00000	1.70796e-34	1.000000
rad70	1.18251e-39	1.00000	1.18251e-39	1.000000
PhcycC3H3_A+H	5.35274e-40	1.00000	5.35275e-40	1.000000
rad55	2.86021e-40	1.00000	2.86021e-40	1.000000
rad58	1.90249e-43	1.00000	1.90250e-43	1.000000
PAH1+H	4.64352e-45	1.00000	4.64353e-45	1.000000
rad34	3.45432e-47	1.00000	3.45432e-47	1.000000
rad42	4.47797e-51	1.00000	4.47797e-51	1.000000
rad41	9.57164e-52	1.00000	9.57164e-52	1.000000
rad47	7.45865e-60	1.00000	7.45865e-60	1.000000

0.100000000E-08 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.24245e-20 (1.00)	4.24245e-20 (1.00)
Formation of rad11	4.06372e-20 (0.958)	4.06372e-20 (0.958)
Formation of rad6	1.76944e-21 (0.0417)	1.76944e-21 (0.0417)
H-abstraction	1.78210e-23 (0.000420)	1.78210e-23 (0.000420)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.982204	0.982204	0.982205	0.982205
C2H2+PhCH2	0.0105006	0.992705	0.0105006	0.992706
PhCCH+CH3	0.00347863	0.996183	0.00347863	0.996184
PhCHCCH2+H	0.00205095	0.998234	0.00205095	0.998235
PhCCCH3+H	0.00127864	0.999513	0.00127864	0.999514
Benzene+2-propynyl	0.000420064	0.999933	0.000420064	0.999934
Ph+MeAc	4.08464e-05	0.999974	4.08465e-05	0.999975
rad8	1.21642e-05	0.999986	1.21642e-05	0.999987
rad9	6.91732e-06	0.999993	6.91732e-06	0.999994
PAH7+H	4.22675e-06	0.999997	4.22675e-06	0.999998
Phenyl+Allene	9.95359e-07	0.999998	0.00000	0.999998
rad30	6.20992e-07	0.999999	6.20992e-07	0.999999
rad39	5.92510e-07	0.999999	5.92511e-07	0.999999
rad12	4.97454e-07	1.000000	4.97455e-07	1.000000
PAH9+H	1.32306e-07	1.00000	1.32307e-07	1.00000
rad15	1.20678e-07	1.00000	1.20678e-07	1.00000
rad35	6.65095e-08	1.00000	6.65095e-08	1.00000
rad38	3.53967e-08	1.00000	3.53968e-08	1.00000
PhCH2CCH+H	4.69874e-10	1.00000	4.69874e-10	1.00000
rad46	3.12072e-10	1.00000	3.12072e-10	1.00000
rad37	1.40301e-10	1.00000	1.40302e-10	1.00000
rad60syn	1.62207e-11	1.00000	1.62208e-11	1.00000
rad60anti	3.51576e-12	1.00000	3.51576e-12	1.00000
rad5	4.33873e-13	1.00000	4.33873e-13	1.00000
rad28	1.84812e-15	1.00000	1.84812e-15	1.00000

rad6	7.80107e-16	1.00000	7.80108e-16	1.00000
rad26	4.55423e-16	1.00000	4.55423e-16	1.00000
PAH3+H	1.44941e-16	1.00000	1.44941e-16	1.00000
rad59	6.43048e-17	1.00000	6.43049e-17	1.00000
rad50	7.56389e-18	1.00000	7.56389e-18	1.00000
rad2	5.67596e-18	1.00000	5.67596e-18	1.00000
rad3	7.68924e-19	1.00000	7.68925e-19	1.00000
rad4	3.91274e-19	1.00000	3.91274e-19	1.00000
rad1	3.67897e-19	1.00000	3.67897e-19	1.00000
rad10	2.36001e-19	1.00000	2.36002e-19	1.00000
rad14	8.65269e-20	1.00000	8.65270e-20	1.00000
rad7	5.69672e-20	1.00000	5.69672e-20	1.00000
rad25	4.38453e-20	1.00000	4.38453e-20	1.00000
rad19syn	2.03478e-20	1.00000	2.03479e-20	1.00000
rad11	1.55061e-20	1.00000	1.55061e-20	1.00000
rad27	5.23765e-21	1.00000	5.23765e-21	1.00000
rad13	3.19026e-22	1.00000	3.19026e-22	1.00000
rad54	1.78868e-23	1.00000	1.78868e-23	1.00000
PAH10+CH3	1.18111e-23	1.00000	1.18111e-23	1.00000
rad43	2.84069e-24	1.00000	2.84069e-24	1.00000
rad33	2.13466e-24	1.00000	2.13466e-24	1.00000
rad52	1.13261e-24	1.00000	1.13261e-24	1.00000
rad31	1.64943e-25	1.00000	1.64943e-25	1.00000
rad62	1.01744e-25	1.00000	1.01744e-25	1.00000
rad20	4.40088e-27	1.00000	4.40089e-27	1.00000
rad21	3.48713e-27	1.00000	3.48713e-27	1.00000
rad51	1.05156e-28	1.00000	1.05156e-28	1.00000
rad70	3.03478e-29	1.00000	3.03479e-29	1.00000
PhcycC3H3_A+H	1.82703e-29	1.00000	1.82703e-29	1.00000
rad18	1.08200e-29	1.00000	1.08200e-29	1.00000
rad55	1.01624e-29	1.00000	1.01625e-29	1.00000
rad22	7.05259e-31	1.00000	7.05260e-31	1.00000
rad23	5.95925e-31	1.00000	5.95926e-31	1.00000
rad65	3.61495e-32	1.00000	3.61495e-32	1.00000
rad45	1.67956e-32	1.00000	1.67956e-32	1.00000
rad58	8.74392e-33	1.00000	8.74393e-33	1.00000
rad24	2.11986e-33	1.00000	2.11986e-33	1.00000
rad36	1.04057e-33	1.00000	1.04057e-33	1.00000
PAH1+H	5.48719e-42	1.00000	5.48719e-42	1.00000
rad34	4.15176e-44	1.00000	4.15176e-44	1.00000
rad42	5.03721e-48	1.00000	5.03722e-48	1.00000
rad41	8.80851e-49	1.00000	8.80852e-49	1.00000
rad47	7.77706e-57	1.00000	7.77707e-57	1.00000

0.100000000E-08 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.33719e-19 (1.00)	1.33719e-19 (1.00)
Formation of rad11	1.26517e-19 (0.946)	1.26517e-19 (0.946)
Formation of rad6	7.08974e-21 (0.0530)	7.08973e-21 (0.0530)
H-abstraction	1.11864e-22 (0.000837)	1.11864e-22 (0.000837)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.980904	0.980904	0.980906	0.980906
C2H2+PhCH2	0.0109102	0.991814	0.0109102	0.991816
PhCCH+CH3	0.00373015	0.995544	0.00373015	0.995546
PhCHCCH2+H	0.00217634	0.997720	0.00217634	0.997722
PhCCCH3+H	0.00136410	0.999084	0.00136410	0.999086
Benzene+2-propynyl	0.000836559	0.999921	0.000836560	0.999923
Ph+MeAc	4.92742e-05	0.999970	4.92743e-05	0.999972
rad8	1.32493e-05	0.999984	1.32493e-05	0.999986
rad9	7.79233e-06	0.999991	7.79234e-06	0.999993
PAH7+H	4.80627e-06	0.999996	4.80628e-06	0.999998
Phenyl+Allene	1.38826e-06	0.999998	0.00000	0.999998
rad39	7.04674e-07	0.999998	7.04675e-07	0.999999
rad30	6.56264e-07	0.999999	6.56265e-07	1.000000
rad12	5.61300e-07	0.999999	5.61301e-07	1.000000
PAH9+H	1.41158e-07	1.000000	1.41158e-07	1.000000
rad15	1.29207e-07	1.000000	1.29207e-07	1.000000
rad35	7.04140e-08	1.000000	7.04141e-08	1.000000
rad38	3.80131e-08	1.000000	3.80132e-08	1.000000
PhCH2CCH+H	1.19679e-09	1.000000	1.19679e-09	1.000000
rad37	3.52437e-10	1.000000	3.52438e-10	1.000000
rad46	3.52311e-10	1.000000	3.52311e-10	1.000000
rad60syn	2.06768e-11	1.000000	2.06768e-11	1.000000
rad60anti	4.89748e-12	1.000000	4.89748e-12	1.000000
rad5	1.36589e-12	1.000000	1.36590e-12	1.000000
rad28	1.52313e-15	1.000000	1.52313e-15	1.000000

rad6	6.35933e-16	1.000000	6.35934e-16	1.00000
PAH3+H	5.97640e-16	1.000000	5.97640e-16	1.00000
rad26	3.75984e-16	1.000000	3.75984e-16	1.00000
rad59	2.54058e-16	1.000000	2.54059e-16	1.00000
rad50	2.77958e-17	1.000000	2.77958e-17	1.00000
rad2	2.21116e-17	1.000000	2.21116e-17	1.00000
rad3	3.76055e-18	1.000000	3.76056e-18	1.00000
rad4	1.91579e-18	1.000000	1.91580e-18	1.00000
rad1	1.43927e-18	1.000000	1.43927e-18	1.00000
rad10	6.05016e-19	1.000000	6.05016e-19	1.00000
rad19syn	3.10954e-19	1.000000	3.10954e-19	1.00000
rad14	7.28168e-20	1.000000	7.28169e-20	1.00000
rad7	4.65231e-20	1.000000	4.65232e-20	1.00000
rad25	3.71540e-20	1.000000	3.71540e-20	1.00000
rad11	1.27651e-20	1.000000	1.27651e-20	1.00000
rad27	4.47658e-21	1.000000	4.47658e-21	1.00000
rad54	4.59070e-22	1.000000	4.59071e-22	1.00000
PAH10+CH3	3.05745e-22	1.000000	3.05745e-22	1.00000
rad13	2.60840e-22	1.000000	2.60841e-22	1.00000
rad43	7.38552e-23	1.000000	7.38553e-23	1.00000
rad52	1.58221e-23	1.000000	1.58221e-23	1.00000
rad62	3.62270e-24	1.000000	3.62270e-24	1.00000
rad33	1.88801e-24	1.000000	1.88801e-24	1.00000
rad31	1.79693e-25	1.000000	1.79694e-25	1.00000
rad20	4.15343e-27	1.000000	4.15343e-27	1.00000
rad51	3.73373e-27	1.000000	3.73373e-27	1.00000
rad21	3.30532e-27	1.000000	3.30533e-27	1.00000
rad70	2.72512e-27	1.000000	2.72513e-27	1.00000
PhcycC3H3_A+H	2.14621e-27	1.000000	2.14621e-27	1.00000
rad55	9.74055e-28	1.000000	9.74056e-28	1.00000
rad18	9.91430e-30	1.000000	9.91431e-30	1.00000
rad65	2.45305e-30	1.000000	2.45306e-30	1.00000
rad58	1.13111e-30	1.000000	1.13111e-30	1.00000
rad23	7.05709e-31	1.000000	7.05710e-31	1.00000
rad22	6.33196e-31	1.000000	6.33197e-31	1.00000
rad45	6.11092e-33	1.000000	6.11092e-33	1.00000
rad24	2.20576e-33	1.000000	2.20576e-33	1.00000
rad36	3.78745e-34	1.000000	3.78745e-34	1.00000
PAH1+H	4.51063e-39	1.000000	4.51063e-39	1.00000
rad34	3.47429e-41	1.000000	3.47430e-41	1.00000
rad42	4.19204e-45	1.000000	4.19204e-45	1.00000
rad41	6.41180e-46	1.000000	6.41181e-46	1.00000
rad47	3.58533e-46	1.000000	3.58534e-46	1.00000

0.100000000E-08 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.59582e-19 (1.00)	3.59581e-19 (1.00)
Formation of rad11	3.35703e-19 (0.934)	3.35702e-19 (0.934)
Formation of rad6	2.33415e-20 (0.0649)	2.33414e-20 (0.0649)
H-abstraction	5.37685e-22 (0.00150)	5.37685e-22 (0.00150)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.979275	0.979275	0.979277	0.979277
C2H2+PhCH2	0.0113556	0.990631	0.0113556	0.990633
PhCCH+CH3	0.00400898	0.994640	0.00400898	0.994642
PhCHCCH2+H	0.00231397	0.996954	0.00231398	0.996956
Benzene+2-propynyl	0.00149531	0.998449	0.00149531	0.998451
PhCCCH3+H	0.00145799	0.999907	0.00145799	0.999909
Ph+MeAc	5.94563e-05	0.999967	5.94564e-05	0.999969
rad8	1.44646e-05	0.999981	1.44646e-05	0.999983
rad9	8.80724e-06	0.999990	8.80726e-06	0.999992
PAH7+H	5.48546e-06	0.999996	5.48547e-06	0.999998
Phenyl+Allene	1.91229e-06	0.999997	0.00000	0.999998
rad39	8.39701e-07	0.999998	8.39703e-07	0.999998
rad30	6.95393e-07	0.999999	6.95394e-07	0.999999
rad12	6.34639e-07	1.000000	6.34640e-07	1.000000
PAH9+H	1.51134e-07	1.000000	1.51135e-07	1.000000
rad15	1.38793e-07	1.000000	1.38793e-07	1.00000
rad35	7.47752e-08	1.000000	7.47754e-08	1.00000
rad38	4.09818e-08	1.000000	4.09819e-08	1.00000
PhCH2CCH+H	2.73839e-09	1.000000	2.73839e-09	1.00000
rad37	7.72171e-10	1.000000	7.72173e-10	1.00000
rad46	4.00204e-10	1.000000	4.00204e-10	1.00000
rad60syn	2.64003e-11	1.000000	2.64004e-11	1.00000
rad60anti	6.71542e-12	1.000000	6.71543e-12	1.00000
rad5	3.71122e-12	1.000000	3.71122e-12	1.00000
PAH3+H	2.04392e-15	1.000000	2.04392e-15	1.00000

rad28	1.25992e-15	1.00000	1.25993e-15	1.00000
rad59	8.33655e-16	1.00000	8.33657e-16	1.00000
rad6	5.22281e-16	1.00000	5.22282e-16	1.00000
rad26	3.11553e-16	1.00000	3.11554e-16	1.00000
rad50	8.70103e-17	1.00000	8.70105e-17	1.00000
rad2	5.31050e-17	1.00000	5.31051e-17	1.00000
rad1	3.47279e-18	1.00000	3.47280e-18	1.00000
rad19syn	3.22743e-18	1.00000	3.22744e-18	1.00000
rad3	1.27303e-18	1.00000	1.27304e-18	1.00000
rad4	6.49488e-19	1.00000	6.49489e-19	1.00000
rad10	4.38388e-19	1.00000	4.38389e-19	1.00000
rad14	6.15412e-20	1.00000	6.15413e-20	1.00000
rad7	3.82808e-20	1.00000	3.82808e-20	1.00000
rad25	3.16256e-20	1.00000	3.16257e-20	1.00000
rad11	1.05912e-20	1.00000	1.05912e-20	1.00000
rad54	7.40438e-21	1.00000	7.40439e-21	1.00000
PAH10+CH3	4.96809e-21	1.00000	4.96810e-21	1.00000
rad27	3.84477e-21	1.00000	3.84477e-21	1.00000
rad43	1.20454e-21	1.00000	1.20454e-21	1.00000
rad13	2.14891e-22	1.00000	2.14892e-22	1.00000
rad52	1.52549e-22	1.00000	1.52549e-22	1.00000
rad62	7.69040e-23	1.00000	7.69041e-23	1.00000
rad33	1.68595e-24	1.00000	1.68595e-24	1.00000
rad31	1.99919e-25	1.00000	1.99919e-25	1.00000
rad70	1.16345e-25	1.00000	1.16345e-25	1.00000
PhcycC3H3_A+H	1.06484e-25	1.00000	1.06485e-25	1.00000
rad51	7.94722e-26	1.00000	7.94724e-26	1.00000
rad55	4.37363e-26	1.00000	4.37364e-26	1.00000
rad20	3.95309e-27	1.00000	3.95310e-27	1.00000
rad21	3.16036e-27	1.00000	3.16037e-27	1.00000
PAH1+H	1.72869e-28	1.00000	1.72869e-28	1.00000
rad65	8.26211e-29	1.00000	8.26213e-29	1.00000
rad58	6.05541e-29	1.00000	6.05542e-29	1.00000
rad18	9.14336e-30	1.00000	9.14338e-30	1.00000
rad34	4.12810e-30	1.00000	4.12811e-30	1.00000
rad23	8.80010e-31	1.00000	8.80012e-31	1.00000
rad22	5.71560e-31	1.00000	5.71561e-31	1.00000
rad45	3.92564e-33	1.00000	3.92565e-33	1.00000
rad24	2.32469e-33	1.00000	2.32469e-33	1.00000
rad36	2.43384e-34	1.00000	2.43385e-34	1.00000
rad42	1.07647e-41	1.00000	1.07647e-41	1.00000
rad41	1.50183e-42	1.00000	1.50183e-42	1.00000
rad47	2.48364e-44	1.00000	2.48365e-44	1.00000

0.100000000E-08 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.51464e-19 (1.00)	8.51462e-19 (1.00)
Formation of rad11	7.83711e-19 (0.920)	7.83709e-19 (0.920)
Formation of rad6	6.56651e-20 (0.0771)	6.56649e-20 (0.0771)
H-abstraction	2.08816e-21 (0.00245)	2.08816e-21 (0.00245)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.977259	0.977259	0.977261	0.977261
C2H2+PhCH2	0.0118380	0.989097	0.0118381	0.989100
PhCCH+CH3	0.00431648	0.993414	0.00431650	0.993416
PhCHCCH2+H	0.00246424	0.995878	0.00246424	0.995880
Benzene+2-propynyl	0.00245244	0.998331	0.00245245	0.998333
PhCCCH3+H	0.00156054	0.999891	0.00156055	0.999893
Ph+MeAc	7.16785e-05	0.999963	7.16787e-05	0.999965
rad8	1.58185e-05	0.999979	1.58185e-05	0.999981
rad9	9.98016e-06	0.999989	9.98016e-06	0.999991
PAH7+H	6.27904e-06	0.999995	6.27905e-06	0.999997
Phenyl+Allene	2.60486e-06	0.999997	0.00000	0.999997
rad39	1.00157e-06	0.999999	1.00157e-06	0.999998
rad30	7.38657e-07	0.999999	7.38659e-07	0.999999
rad12	7.18426e-07	1.000000	7.18427e-07	0.999999
PAH9+H	1.62355e-07	1.000000	1.62355e-07	1.000000
rad15	1.49537e-07	1.000000	1.49538e-07	1.000000
rad35	7.96337e-08	1.000000	7.96339e-08	1.000000
rad38	4.43440e-08	1.000000	4.43441e-08	1.000000
PhCH2CCH+H	5.75228e-09	1.000000	5.75229e-09	1.000000
rad37	1.51873e-09	1.000000	1.51873e-09	1.000000
rad46	4.57178e-10	1.000000	4.57180e-10	1.000000
rad60syn	3.37167e-11	1.000000	3.37168e-11	1.000000
rad60anti	9.09686e-12	1.000000	9.09688e-12	1.000000
rad5	8.96576e-12	1.000000	8.96579e-12	1.000000
PAH3+H	6.03134e-15	1.000000	6.03135e-15	1.000000

rad59	2.36429e-15	1.00000	2.36430e-15	1.000000
rad28	1.04514e-15	1.00000	1.04514e-15	1.000000
rad6	4.31520e-16	1.00000	4.31521e-16	1.000000
rad26	2.58899e-16	1.00000	2.58900e-16	1.000000
rad50	2.40153e-16	1.00000	2.40153e-16	1.000000
rad19syn	2.46149e-17	1.00000	2.46149e-17	1.000000
rad2	1.68270e-17	1.00000	1.68271e-17	1.000000
rad1	1.10634e-18	1.00000	1.10634e-18	1.000000
rad3	3.87517e-19	1.00000	3.87518e-19	1.000000
rad10	3.38754e-19	1.00000	3.38755e-19	1.000000
rad4	1.97999e-19	1.00000	1.98000e-19	1.000000
rad54	8.25299e-20	1.00000	8.25301e-20	1.000000
PAH10+CH3	5.57277e-20	1.00000	5.57279e-20	1.000000
rad14	5.21902e-20	1.00000	5.21903e-20	1.000000
rad7	3.16902e-20	1.00000	3.16902e-20	1.000000
rad25	2.70185e-20	1.00000	2.70186e-20	1.000000
rad43	1.35491e-20	1.00000	1.35491e-20	1.000000
rad11	8.84423e-21	1.00000	8.84425e-21	1.000000
rad27	3.31542e-21	1.00000	3.31543e-21	1.000000
rad52	1.09591e-21	1.00000	1.09591e-21	1.000000
rad62	1.08552e-21	1.00000	1.08552e-21	1.000000
rad13	1.78127e-22	1.00000	1.78127e-22	1.000000
rad70	2.82757e-24	1.00000	2.82758e-24	1.000000
PhcycC3H3_A+H	2.82696e-24	1.00000	2.82697e-24	1.000000
rad33	1.51830e-24	1.00000	1.51830e-24	1.000000
rad51	1.13153e-24	1.00000	1.13153e-24	1.000000
rad55	1.09836e-24	1.00000	1.09836e-24	1.000000
rad31	2.27051e-25	1.00000	2.27052e-25	1.000000
PAH1+H	8.47528e-27	1.00000	8.47531e-27	1.000000
rad20	3.79091e-27	1.00000	3.79092e-27	1.000000
rad21	3.04545e-27	1.00000	3.04546e-27	1.000000
rad65	1.71245e-27	1.00000	1.71245e-27	1.000000
rad58	1.68999e-27	1.00000	1.69000e-27	1.000000
rad34	2.52727e-28	1.00000	2.52727e-28	1.000000
rad18	8.47893e-30	1.00000	8.47895e-30	1.000000
rad23	1.17379e-30	1.00000	1.17380e-30	1.000000
rad42	7.85452e-31	1.00000	7.85454e-31	1.000000
rad22	5.18201e-31	1.00000	5.18202e-31	1.000000
rad41	1.60818e-31	1.00000	1.60819e-31	1.000000
rad45	6.09775e-32	1.00000	6.09777e-32	1.000000
rad36	3.78172e-33	1.00000	3.78173e-33	1.000000
rad24	2.47948e-33	1.00000	2.47948e-33	1.000000
rad47	7.59466e-43	1.00000	7.59468e-43	1.000000

0.100000000E-08 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.81800e-18 (1.00)	1.81799e-18 (1.00)
Formation of rad11	1.64862e-18 (0.907)	1.64862e-18 (0.907)
Formation of rad6	1.62558e-19 (0.0894)	1.62558e-19 (0.0894)
H-abstraction	6.82130e-21 (0.00375)	6.82130e-21 (0.00375)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.974807	0.974807	0.974810	0.974810
C2H2+PhCH2	0.0123589	0.987166	0.0123590	0.987169
PhCCH+CH3	0.00465409	0.991820	0.00465411	0.991823
Benzene+2-propynyl	0.00375209	0.995572	0.00375210	0.995575
PhCHCCH2+H	0.00262750	0.998199	0.00262751	0.998202
PhCCCH3+H	0.00167199	0.999871	0.00167199	0.999874
Ph+MeAc	8.62616e-05	0.999957	8.62619e-05	0.999961
rad8	1.73195e-05	0.999975	1.73195e-05	0.999978
rad9	1.13314e-05	0.999986	1.13315e-05	0.999989
PAH7+H	7.20397e-06	0.999993	7.20399e-06	0.999996
Phenyl+Allene	3.51290e-06	0.999997	0.00000	0.999996
rad39	1.19490e-06	0.999998	1.19491e-06	0.999998
rad12	8.13676e-07	0.999999	8.13678e-07	0.999998
rad30	7.86375e-07	1.000000	7.86378e-07	0.999999
PAH9+H	1.74957e-07	1.000000	1.74957e-07	0.999999
rad15	1.61556e-07	1.000000	1.61556e-07	1.000000
rad35	8.50366e-08	1.00000	8.50369e-08	1.000000
rad38	4.81472e-08	1.00000	4.81473e-08	1.000000
PhCH2CCH+H	1.12739e-08	1.00000	1.12740e-08	1.000000
rad37	2.73998e-09	1.00000	2.73999e-09	1.000000
rad46	5.24970e-10	1.00000	5.24971e-10	1.000000
rad60syn	4.30328e-11	1.00000	4.30330e-11	1.000000
rad5	1.96900e-11	1.00000	1.96900e-11	1.000000
rad60anti	1.22036e-11	1.00000	1.22036e-11	1.000000
PAH3+H	1.58160e-14	1.00000	1.58160e-14	1.000000

rad59	5.96957e-15	1.00000	5.96959e-15	1.000000
rad28	8.68836e-16	1.00000	8.68839e-16	1.000000
rad50	5.99513e-16	1.00000	5.99515e-16	1.000000
rad6	3.58275e-16	1.00000	3.58276e-16	1.000000
rad26	2.15614e-16	1.00000	2.15615e-16	1.000000
rad19syn	1.46314e-16	1.00000	1.46314e-16	1.000000
rad2	3.27828e-18	1.00000	3.27829e-18	1.000000
rad54	6.82323e-19	1.00000	6.82326e-19	1.000000
PAH10+CH3	4.63170e-19	1.00000	4.63171e-19	1.000000
rad10	2.75542e-19	1.00000	2.75543e-19	1.000000
rad1	2.16702e-19	1.00000	2.16703e-19	1.000000
rad43	1.12798e-19	1.00000	1.12798e-19	1.000000
rad3	9.85071e-20	1.00000	9.85074e-20	1.000000
rad4	5.03981e-20	1.00000	5.03983e-20	1.000000
rad14	4.43837e-20	1.00000	4.43839e-20	1.000000
rad7	2.63643e-20	1.00000	2.63643e-20	1.000000
rad25	2.31524e-20	1.00000	2.31525e-20	1.000000
rad62	1.10170e-20	1.00000	1.10170e-20	1.000000
rad11	7.42503e-21	1.00000	7.42506e-21	1.000000
rad52	6.21217e-21	1.00000	6.21220e-21	1.000000
rad27	2.86863e-21	1.00000	2.86864e-21	1.000000
rad13	1.48396e-22	1.00000	1.48397e-22	1.000000
PhcycC3H3_A+H	4.94897e-23	1.00000	4.94899e-23	1.000000
rad70	4.58079e-23	1.00000	4.58081e-23	1.000000
rad55	1.82891e-23	1.00000	1.82891e-23	1.000000
rad51	1.16593e-23	1.00000	1.16593e-23	1.000000
rad33	1.37777e-24	1.00000	1.37777e-24	1.000000
rad31	2.63139e-25	1.00000	2.63140e-25	1.000000
PAH1+H	2.26749e-25	1.00000	2.26750e-25	1.000000
rad58	3.08150e-26	1.00000	3.08151e-26	1.000000
rad65	2.43580e-26	1.00000	2.43581e-26	1.000000
rad34	7.87306e-27	1.00000	7.87309e-27	1.000000
rad20	3.66058e-27	1.00000	3.66059e-27	1.000000
rad21	2.95591e-27	1.00000	2.95592e-27	1.000000
rad42	4.07683e-29	1.00000	4.07685e-29	1.000000
rad41	9.77891e-30	1.00000	9.77894e-30	1.000000
rad18	7.90061e-30	1.00000	7.90064e-30	1.000000
rad23	1.64882e-30	1.00000	1.64883e-30	1.000000
rad22	4.71550e-31	1.00000	4.71551e-31	1.000000
rad45	2.28287e-32	1.00000	2.28288e-32	1.000000
rad24	2.67494e-33	1.00000	2.67495e-33	1.000000
rad36	1.41703e-33	1.00000	1.41704e-33	1.000000
rad47	1.41734e-41	1.00000	1.41734e-41	1.000000

0.100000000E-08 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.56414e-18 (1.00)	3.56412e-18 (1.00)
Formation of rad11	3.18264e-18 (0.893)	3.18262e-18 (0.893)
Formation of rad6	3.62173e-19 (0.102)	3.62171e-19 (0.102)
H-abstraction	1.93278e-20 (0.00542)	1.93278e-20 (0.00542)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.971885	0.971885	0.971890	0.971890
C2H2+PhCH2	0.0129199	0.984805	0.0129199	0.984810
Benzene+2-propynyl	0.00542285	0.990228	0.00542288	0.990233
PhCCH+CH3	0.00502329	0.995251	0.00502332	0.995256
PhCHCCH2+H	0.00280418	0.998055	0.00280419	0.998060
PhCCCH3+H	0.00179254	0.999848	0.00179255	0.999853
Ph+MeAc	0.000103562	0.999951	0.000103563	0.999956
rad8	1.89760e-05	0.999970	1.89761e-05	0.999975
rad9	1.28842e-05	0.999983	1.28841e-05	0.999988
PAH7+H	8.27970e-06	0.999991	8.27974e-06	0.999996
Phenyl+Allene	4.69493e-06	0.999996	0.00000	0.999996
rad39	1.42509e-06	0.999997	1.42510e-06	0.999998
rad12	9.21463e-07	0.999998	9.21467e-07	0.999999
rad30	8.38912e-07	0.999999	8.38916e-07	1.000000
PAH9+H	1.89102e-07	0.999999	1.89103e-07	1.000000
rad15	1.74977e-07	1.000000	1.74978e-07	1.000000
rad35	9.10384e-08	1.000000	9.10389e-08	1.000000
rad38	5.24473e-08	1.000000	5.24475e-08	1.000000
PhCH2CCH+H	2.08707e-08	1.000000	2.08708e-08	1.000000
rad37	4.60963e-09	1.000000	4.60965e-09	1.000000
rad46	6.05682e-10	1.000000	6.05685e-10	1.000000
rad60syn	5.48564e-11	1.000000	5.48566e-11	1.000000
rad5	3.99754e-11	1.000000	3.99756e-11	1.000000
rad60anti	1.62407e-11	1.000000	1.62408e-11	1.000000
PAH3+H	3.76908e-14	1.000000	3.76910e-14	1.000000

rad59	1.37229e-14	1.000000	1.37230e-14	1.00000
rad50	1.37986e-15	1.000000	1.37986e-15	1.00000
rad28	7.23451e-16	1.000000	7.23454e-16	1.00000
rad19syn	7.08949e-16	1.000000	7.08952e-16	1.00000
rad6	2.98656e-16	1.000000	2.98658e-16	1.00000
rad26	1.79867e-16	1.000000	1.79868e-16	1.00000
rad54	4.41606e-18	1.000000	4.41608e-18	1.00000
PAH10+CH3	3.01001e-18	1.000000	3.01003e-18	1.00000
rad2	7.89042e-19	1.000000	7.89045e-19	1.00000
rad43	7.33358e-19	1.000000	7.33362e-19	1.00000
rad10	2.33947e-19	1.000000	2.33948e-19	1.00000
rad62	8.52799e-20	1.000000	8.52803e-20	1.00000
rad1	5.24904e-20	1.000000	5.24907e-20	1.00000
rad14	3.78324e-20	1.000000	3.78326e-20	1.00000
rad3	2.90954e-20	1.000000	2.90956e-20	1.00000
rad52	2.90265e-20	1.000000	2.90266e-20	1.00000
rad7	2.20230e-20	1.000000	2.20231e-20	1.00000
rad25	1.98902e-20	1.000000	1.98902e-20	1.00000
rad4	1.49088e-20	1.000000	1.49089e-20	1.00000
rad11	6.26193e-21	1.000000	6.26196e-21	1.00000
rad27	2.48927e-21	1.000000	2.48928e-21	1.00000
PhcycC3H3_A+H	6.18576e-22	1.000000	6.18579e-22	1.00000
rad70	5.33446e-22	1.000000	5.33449e-22	1.00000
rad55	2.18165e-22	1.000000	2.18166e-22	1.00000
rad13	1.24143e-22	1.000000	1.24144e-22	1.00000
rad51	9.22228e-23	1.000000	9.22233e-23	1.00000
PAH1+H	3.94436e-24	1.000000	3.94438e-24	1.00000
rad33	1.25904e-24	1.000000	1.25905e-24	1.00000
rad58	3.99313e-25	1.000000	3.99315e-25	1.00000
rad31	3.11128e-25	1.000000	3.11129e-25	1.00000
rad65	2.54727e-25	1.000000	2.54729e-25	1.00000
rad34	1.50323e-25	1.000000	1.50324e-25	1.00000
rad20	3.55765e-27	1.000000	3.55767e-27	1.00000
rad21	2.88845e-27	1.000000	2.88846e-27	1.00000
rad42	1.01747e-27	1.000000	1.01748e-27	1.00000
rad41	2.58572e-28	1.000000	2.58573e-28	1.00000
rad18	7.39325e-30	1.000000	7.39328e-30	1.00000
rad23	2.46480e-30	1.000000	2.46481e-30	1.00000
rad22	4.30435e-31	1.000000	4.30437e-31	1.00000
rad45	1.08013e-32	1.000000	1.08014e-32	1.00000
rad24	2.91796e-33	1.000000	2.91797e-33	1.00000
rad36	6.71794e-34	1.000000	6.71797e-34	1.00000
rad47	1.82774e-40	1.000000	1.82775e-40	1.00000

0.100000000E-08 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.50681e-18 (1.00)	6.50677e-18 (1.00)
Formation of rad11	5.71915e-18 (0.879)	5.71911e-18 (0.879)
Formation of rad6	7.39013e-19 (0.114)	7.39008e-19 (0.114)
H-abstraction	4.86496e-20 (0.00748)	4.86496e-20 (0.00748)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.968478	0.968478	0.968484	0.968484
C2H2+PhCH2	0.0135228	0.982001	0.0135229	0.982007
Benzene+2-propynyl	0.00747672	0.989478	0.00747676	0.989484
PhCCH+CH3	0.00542564	0.994904	0.00542568	0.994910
PhCHCCH2+H	0.00299468	0.997898	0.00299470	0.997904
PhCCCH3+H	0.00192237	0.999821	0.00192238	0.999827
Ph+MeAc	0.000123974	0.999945	0.000123975	0.999951
rad8	2.07972e-05	0.999965	2.07974e-05	0.999972
rad9	1.46640e-05	0.999980	1.46641e-05	0.999986
PAH7+H	9.52858e-06	0.999990	9.52865e-06	0.999996
Phenyl+Allene	6.22344e-06	0.999996	0.00000	0.999996
rad39	1.69835e-06	0.999998	1.69836e-06	0.999997
rad12	1.04290e-06	0.999999	1.04291e-06	0.999998
rad30	8.96681e-07	0.999999	8.96687e-07	0.999999
PAH9+H	2.04978e-07	1.000000	2.04979e-07	1.000000
rad15	1.89953e-07	1.000000	1.89954e-07	1.000000
rad35	9.77029e-08	1.000000	9.77035e-08	1.000000
rad38	5.73097e-08	1.000000	5.73101e-08	1.000000
PhCH2CCH+H	3.68402e-08	1.000000	3.68404e-08	1.000000
rad37	7.32440e-09	1.000000	7.32444e-09	1.000000
rad46	7.01870e-10	1.000000	7.01875e-10	1.000000
rad5	7.60090e-11	1.000000	7.60095e-11	1.000000
rad60syn	6.98193e-11	1.000000	6.98198e-11	1.000000
rad60anti	2.14667e-11	1.000000	2.14668e-11	1.000000
PAH3+H	8.30447e-14	1.000000	8.30452e-14	1.000000

rad59	2.92197e-14	1.00000	2.92198e-14	1.000000
rad50	2.97124e-15	1.00000	2.97126e-15	1.000000
rad19syn	2.89949e-15	1.00000	2.89950e-15	1.000000
rad28	6.03138e-16	1.00000	6.03141e-16	1.000000
rad6	2.49787e-16	1.00000	2.49789e-16	1.000000
rad26	1.50240e-16	1.00000	1.50241e-16	1.000000
rad54	2.33297e-17	1.00000	2.33298e-17	1.000000
PAH10+CH3	1.59467e-17	1.00000	1.59468e-17	1.000000
rad43	3.88182e-18	1.00000	3.88185e-18	1.000000
rad62	5.27068e-19	1.00000	5.27072e-19	1.000000
rad2	4.49133e-19	1.00000	4.49136e-19	1.000000
rad10	2.06166e-19	1.00000	2.06167e-19	1.000000
rad52	1.15650e-19	1.00000	1.15650e-19	1.000000
rad14	3.23111e-20	1.00000	3.23113e-20	1.000000
rad1	3.00693e-20	1.00000	3.00695e-20	1.000000
rad7	1.84592e-20	1.00000	1.84593e-20	1.000000
rad25	1.71251e-20	1.00000	1.71252e-20	1.000000
rad3	1.46056e-20	1.00000	1.46057e-20	1.000000
rad4	7.49843e-21	1.00000	7.49848e-21	1.000000
PhcycC3H3_A+H	5.85620e-21	1.00000	5.85623e-21	1.000000
rad11	5.30174e-21	1.00000	5.30177e-21	1.000000
rad70	4.72802e-21	1.00000	4.72804e-21	1.000000
rad27	2.16559e-21	1.00000	2.16561e-21	1.000000
rad55	1.97618e-21	1.00000	1.97620e-21	1.000000
rad51	5.86138e-22	1.00000	5.86142e-22	1.000000
rad13	1.04217e-22	1.00000	1.04218e-22	1.000000
PAH1+H	4.95211e-23	1.00000	4.95214e-23	1.000000
rad58	3.90830e-24	1.00000	3.90832e-24	1.000000
rad65	2.06558e-24	1.00000	2.06559e-24	1.000000
rad34	2.04058e-24	1.00000	2.04059e-24	1.000000
rad33	1.15812e-24	1.00000	1.15812e-24	1.000000
rad31	3.75246e-25	1.00000	3.75248e-25	1.000000
rad42	1.68941e-26	1.00000	1.68942e-26	1.000000
rad41	4.43576e-27	1.00000	4.43577e-27	1.000000
rad20	3.47897e-27	1.00000	3.47899e-27	1.000000
rad21	2.84084e-27	1.00000	2.84086e-27	1.000000
rad18	6.94531e-30	1.00000	6.94536e-30	1.000000
rad23	3.89175e-30	1.00000	3.89178e-30	1.000000
rad22	3.93961e-31	1.00000	3.93964e-31	1.000000
rad45	1.48870e-32	1.00000	1.48870e-32	1.000000
rad24	3.21802e-33	1.00000	3.21804e-33	1.000000
rad36	9.27046e-34	1.00000	9.27051e-34	1.000000
rad47	1.73400e-39	1.00000	1.73402e-39	1.000000

0.100000000E-08 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.11858e-17 (1.00)	1.11857e-17 (1.00)
Formation of rad11	9.67466e-18 (0.865)	9.67458e-18 (0.865)
Formation of rad6	1.40029e-18 (0.125)	1.40028e-18 (0.125)
H-abstraction	1.10851e-19 (0.00991)	1.10851e-19 (0.00991)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.964584	0.964584	0.964592	0.964592
C2H2+PhCH2	0.0141704	0.978755	0.0141705	0.978763
Benzene+2-propynyl	0.00990995	0.988665	0.00991003	0.988673
PhCCH+CH3	0.00586273	0.994527	0.00586278	0.994535
PhCHCCH2+H	0.00319945	0.997727	0.00319948	0.997735
PhCCCH3+H	0.00206165	0.999788	0.00206167	0.999797
Ph+MeAc	0.000147924	0.999936	0.000147926	0.999945
rad8	2.27917e-05	0.999959	2.27919e-05	0.999967
rad9	1.66999e-05	0.999976	1.67001e-05	0.999984
PAH7+H	1.09761e-05	0.999987	1.09762e-05	0.999995
Phenyl+Allene	8.18762e-06	0.999995	0.00000	0.999995
rad39	2.02183e-06	0.999997	2.02185e-06	0.999997
rad12	1.17916e-06	0.999998	1.17917e-06	0.999998
rad30	9.60155e-07	0.999999	9.60163e-07	0.999999
PAH9+H	2.22801e-07	0.999999	2.22802e-07	0.999999
rad15	2.06653e-07	1.000000	2.06655e-07	1.000000
rad35	1.05103e-07	1.000000	1.05104e-07	1.000000
rad38	6.28102e-08	1.000000	6.28107e-08	1.000000
PhCH2CCH+H	6.24645e-08	1.000000	6.24651e-08	1.000000
rad37	1.11023e-08	1.000000	1.11024e-08	1.000000
rad46	8.16621e-10	1.000000	8.16628e-10	1.000000
rad5	1.36733e-10	1.000000	1.36734e-10	1.000000
rad60syn	8.87050e-11	1.000000	8.87057e-11	1.000000
rad60anti	2.82057e-11	1.000000	2.82060e-11	1.000000
PAH3+H	1.71452e-13	1.000000	1.71454e-13	1.000000

rad59	5.84005e-14	1.000000	5.84010e-14	1.000000
rad19syn	1.02878e-14	1.000000	1.02879e-14	1.000000
rad50	6.05359e-15	1.000000	6.05364e-15	1.000000
rad28	5.03295e-16	1.000000	5.03299e-16	1.000000
rad6	2.09498e-16	1.000000	2.09500e-16	1.000000
rad26	1.25616e-16	1.000000	1.25617e-16	1.000000
rad54	1.03970e-16	1.000000	1.03971e-16	1.000000
PAH10+CH3	7.11676e-17	1.000000	7.11682e-17	1.000000
rad43	1.72858e-17	1.000000	1.72859e-17	1.000000
rad62	2.69622e-18	1.000000	2.69624e-18	1.000000
rad2	2.34755e-18	1.000000	2.34757e-18	1.000000
rad52	4.03514e-19	1.000000	4.03517e-19	1.000000
rad10	1.87835e-19	1.000000	1.87836e-19	1.000000
rad1	1.58314e-19	1.000000	1.58316e-19	1.000000
PhcycC3H3_A+H	4.38895e-20	1.000000	4.38899e-20	1.000000
rad70	3.33202e-20	1.000000	3.33205e-20	1.000000
rad14	2.76417e-20	1.000000	2.76420e-20	1.000000
rad7	1.55164e-20	1.000000	1.55165e-20	1.000000
rad25	1.47728e-20	1.000000	1.47729e-20	1.000000
rad55	1.42084e-20	1.000000	1.42085e-20	1.000000
rad3	6.05474e-21	1.000000	6.05479e-21	1.000000
rad11	4.50421e-21	1.000000	4.50425e-21	1.000000
rad4	3.11420e-21	1.000000	3.11423e-21	1.000000
rad51	3.10227e-21	1.000000	3.10230e-21	1.000000
rad27	1.88830e-21	1.000000	1.88831e-21	1.000000
PAH1+H	4.73309e-22	1.000000	4.73313e-22	1.000000
rad13	8.77481e-23	1.000000	8.77488e-23	1.000000
rad58	3.02074e-23	1.000000	3.02077e-23	1.000000
rad34	2.08650e-23	1.000000	2.08652e-23	1.000000
rad65	1.35334e-23	1.000000	1.35335e-23	1.000000
rad33	1.07194e-24	1.000000	1.07195e-24	1.000000
rad31	4.61588e-25	1.000000	4.61591e-25	1.000000
rad42	2.03932e-25	1.000000	2.03933e-25	1.000000
rad41	5.49126e-26	1.000000	5.49130e-26	1.000000
rad20	3.42237e-27	1.000000	3.42240e-27	1.000000
rad21	2.81165e-27	1.000000	2.81167e-27	1.000000
rad18	6.54794e-30	1.000000	6.54799e-30	1.000000
rad23	6.48451e-30	1.000000	6.48456e-30	1.000000
rad22	3.61428e-31	1.000000	3.61431e-31	1.000000
rad45	1.09815e-32	1.000000	1.09816e-32	1.000000
rad24	3.58777e-33	1.000000	3.58780e-33	1.000000
rad36	6.85027e-34	1.000000	6.85033e-34	1.000000
rad47	1.27121e-38	1.000000	1.27122e-38	1.000000

0.100000000E-08 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.82690e-17 (1.00)	1.82688e-17 (1.00)
Formation of rad11	1.55456e-17 (0.851)	1.55454e-17 (0.851)
Formation of rad6	2.49126e-18 (0.136)	2.49124e-18 (0.136)
H-abstraction	2.32112e-19 (0.0127)	2.32112e-19 (0.0127)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.960215	0.960215	0.960226	0.960226
C2H2+PhCH2	0.0148649	0.975080	0.0148651	0.975091
Benzene+2-propynyl	0.0127053	0.987785	0.0127054	0.987796
PhCCH+CH3	0.00633615	0.994122	0.00633622	0.994133
PhCHCCH2+H	0.00341889	0.997540	0.00341893	0.997552
PhCCCH3+H	0.00221052	0.999751	0.00221055	0.999762
Ph+MeAc	0.000175876	0.999927	0.000175878	0.999938
rad8	2.49677e-05	0.999952	2.49680e-05	0.999963
rad9	1.90241e-05	0.999971	1.90243e-05	0.999982
PAH7+H	1.26513e-05	0.999983	1.26514e-05	0.999995
Phenyl+Allene	1.06964e-05	0.999994	0.00000	0.999995
rad39	2.40374e-06	0.999997	2.40377e-06	0.999997
rad12	1.33139e-06	0.999998	1.33141e-06	0.999998
rad30	1.02986e-06	0.999999	1.02987e-06	0.999999
PAH9+H	2.42820e-07	0.999999	2.42822e-07	1.000000
rad15	2.25266e-07	0.999999	2.25268e-07	1.000000
rad35	1.13322e-07	1.000000	1.13323e-07	1.000000
PhCH2CCH+H	1.02329e-07	1.000000	1.02331e-07	1.000000
rad38	6.90363e-08	1.000000	6.90370e-08	1.000000
rad37	1.61821e-08	1.000000	1.61823e-08	1.000000
rad46	9.53658e-10	1.000000	9.53667e-10	1.000000
rad5	2.34596e-10	1.000000	2.34599e-10	1.000000
rad60syn	1.12479e-10	1.000000	1.12481e-10	1.000000
rad60anti	3.68627e-11	1.000000	3.68631e-11	1.000000
PAH3+H	3.35192e-13	1.000000	3.35196e-13	1.000000

rad59	1.10713e-13	1.000000	1.10714e-13	1.000000
rad19syn	3.23698e-14	1.000000	3.23702e-14	1.000000
rad50	1.17726e-14	1.000000	1.17728e-14	1.000000
rad28	4.20264e-16	1.000000	4.20269e-16	1.000000
rad54	4.01275e-16	1.000000	4.01279e-16	1.000000
PAH10+CH3	2.74628e-16	1.000000	2.74631e-16	1.000000
rad6	1.76123e-16	1.000000	1.76123e-16	1.000000
rad26	1.05104e-16	1.000000	1.05106e-16	1.000000
rad43	6.64690e-17	1.000000	6.64697e-17	1.000000
rad62	1.17482e-17	1.000000	1.17484e-17	1.000000
rad52	1.25934e-18	1.000000	1.25935e-18	1.000000
rad2	1.03788e-18	1.000000	1.03789e-18	1.000000
PhcycC3H3_A+H	2.69648e-19	1.000000	2.69650e-19	1.000000
rad70	1.93309e-19	1.000000	1.93311e-19	1.000000
rad10	1.76437e-19	1.000000	1.76439e-19	1.000000
rad55	8.39747e-20	1.000000	8.39757e-20	1.000000
rad1	7.05488e-20	1.000000	7.05496e-20	1.000000
rad14	2.36819e-20	1.000000	2.36822e-20	1.000000
rad51	1.40662e-20	1.000000	1.40663e-20	1.000000
rad7	1.30744e-20	1.000000	1.30746e-20	1.000000
rad25	1.27656e-20	1.000000	1.27658e-20	1.000000
rad3	9.91540e-21	1.000000	9.91560e-21	1.000000
rad4	5.11336e-21	1.000000	5.11342e-21	1.000000
rad11	3.83839e-21	1.000000	3.83843e-21	1.000000
PAH1+H	3.58741e-21	1.000000	3.58745e-21	1.000000
rad27	1.64996e-21	1.000000	1.64998e-21	1.000000
rad58	1.90959e-22	1.000000	1.90961e-22	1.000000
rad34	1.67728e-22	1.000000	1.67730e-22	1.000000
rad13	7.40698e-23	1.000000	7.40706e-23	1.000000
rad65	7.40125e-23	1.000000	7.40132e-23	1.000000
rad42	1.88860e-24	1.000000	1.88862e-24	1.000000
rad33	9.98155e-25	1.000000	9.98175e-25	1.000000
rad31	5.78990e-25	1.000000	5.78997e-25	1.000000
rad41	5.19580e-25	1.000000	5.19585e-25	1.000000
rad20	3.38648e-27	1.000000	3.38651e-27	1.000000
rad21	2.80005e-27	1.000000	2.80008e-27	1.000000
rad23	1.13913e-29	1.000000	1.13914e-29	1.000000
rad18	6.19414e-30	1.000000	6.19421e-30	1.000000
rad22	3.32280e-31	1.000000	3.32283e-31	1.000000
rad45	1.93145e-31	1.000000	1.93147e-31	1.000000
rad36	1.20760e-32	1.000000	1.20761e-32	1.000000
rad24	4.04405e-33	1.000000	4.04409e-33	1.000000
rad47	7.49047e-38	1.000000	7.49055e-38	1.000000

0.100000000E-08 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.85520e-17 (1.00)	2.85516e-17 (1.00)
Formation of rad11	2.39009e-17 (0.837)	2.39006e-17 (0.837)
Formation of rad6	4.19900e-18 (0.147)	4.19894e-18 (0.147)
H-abstraction	4.52111e-19 (0.0158)	4.52111e-19 (0.0158)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.955393	0.955393	0.955407	0.955407
Benzene+2-propynyl	0.0158346	0.971228	0.0158348	0.971242
C2H2+PhCH2	0.0156097	0.986838	0.0156098	0.986852
PhCCH+CH3	0.00684746	0.993685	0.00684756	0.993699
PhCHCCH2+H	0.00365340	0.997338	0.00365345	0.997353
PhCCCH3+H	0.00236906	0.999707	0.00236909	0.999722
Ph+MeAc	0.000208315	0.999916	0.000208318	0.999930
rad8	2.73332e-05	0.999943	2.73336e-05	0.999957
rad9	2.16716e-05	0.999965	2.16720e-05	0.999979
PAH7+H	1.45867e-05	0.999979	1.45869e-05	0.999994
Phenyl+Allene	1.38822e-05	0.999993	0.00000	0.999994
rad39	2.85336e-06	0.999996	2.85340e-06	0.999996
rad12	1.50074e-06	0.999998	1.50076e-06	0.999998
rad30	1.10636e-06	0.999999	1.10637e-06	0.999999
PAH9+H	2.65320e-07	0.999999	2.65323e-07	0.999999
rad15	2.46003e-07	0.999999	2.46007e-07	1.000000
PhCH2CCH+H	1.62721e-07	0.999999	1.62723e-07	1.000000
rad35	1.22453e-07	1.000000	1.22455e-07	1.000000
rad38	7.60883e-08	1.000000	7.60894e-08	1.000000
rad37	2.28238e-08	1.000000	2.28241e-08	1.000000
rad46	1.11744e-09	1.000000	1.11746e-09	1.000000
rad5	3.86380e-10	1.000000	3.86385e-10	1.000000
rad60syn	1.42324e-10	1.000000	1.42326e-10	1.000000
rad60anti	4.79399e-11	1.000000	4.79406e-11	1.000000
PAH3+H	6.25713e-13	1.000000	6.25721e-13	1.000000

rad59	2.00722e-13	1.000000	2.00725e-13	1.000000
rad19syn	9.19288e-14	1.000000	9.19301e-14	1.000000
rad50	2.20051e-14	1.000000	2.20053e-14	1.000000
rad54	1.36990e-15	1.000000	1.36992e-15	1.000000
PAH10+CH3	9.35816e-16	1.000000	9.35829e-16	1.000000
rad28	3.51099e-16	1.000000	3.51104e-16	1.000000
rad43	2.25414e-16	1.000000	2.25418e-16	1.000000
rad6	1.48363e-16	1.000000	1.48365e-16	1.000000
rad26	8.79915e-17	1.000000	8.79927e-17	1.000000
rad62	4.46231e-17	1.000000	4.46238e-17	1.000000
rad52	3.57588e-18	1.000000	3.57592e-18	1.000000
PhcycC3H3_A+H	1.39649e-18	1.000000	1.39651e-18	1.000000
rad70	9.49279e-19	1.000000	9.49292e-19	1.000000
rad2	8.03026e-19	1.000000	8.03037e-19	1.000000
rad55	4.19552e-19	1.000000	4.19557e-19	1.000000
rad10	1.70524e-19	1.000000	1.70527e-19	1.000000
rad51	5.58854e-20	1.000000	5.58862e-20	1.000000
rad1	5.50360e-20	1.000000	5.50368e-20	1.000000
PAH1+H	2.22717e-20	1.000000	2.22720e-20	1.000000
rad14	2.03162e-20	1.000000	2.03165e-20	1.000000
rad25	1.10487e-20	1.000000	1.10489e-20	1.000000
rad7	1.10400e-20	1.000000	1.10402e-20	1.000000
rad3	6.71611e-21	1.000000	6.71621e-21	1.000000
rad4	3.47090e-21	1.000000	3.47094e-21	1.000000
rad11	3.28014e-21	1.000000	3.28018e-21	1.000000
rad27	1.44452e-21	1.000000	1.44454e-21	1.000000
rad34	1.09606e-21	1.000000	1.09606e-21	1.000000
rad58	1.01534e-21	1.000000	1.01536e-21	1.000000
rad65	3.46717e-22	1.000000	3.46721e-22	1.000000
rad13	6.26624e-23	1.000000	6.26633e-23	1.000000
rad42	1.39290e-23	1.000000	1.39292e-23	1.000000
rad41	3.90335e-24	1.000000	3.90341e-24	1.000000
rad33	9.34929e-25	1.000000	9.34942e-25	1.000000
rad31	7.40376e-25	1.000000	7.40386e-25	1.000000
rad20	3.37050e-27	1.000000	3.37055e-27	1.000000
rad21	2.80579e-27	1.000000	2.80583e-27	1.000000
rad23	2.10215e-29	1.000000	2.10218e-29	1.000000
rad18	5.87839e-30	1.000000	5.87848e-30	1.000000
rad22	3.06068e-31	1.000000	3.06072e-31	1.000000
rad45	1.73796e-31	1.000000	1.73799e-31	1.000000
rad36	1.08818e-32	1.000000	1.08819e-32	1.000000
rad24	4.60923e-33	1.000000	4.60929e-33	1.000000
rad47	3.66234e-37	1.000000	3.66239e-37	1.000000

0.100000000E-08 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.29529e-17 (1.00)	4.29521e-17 (1.00)
Formation of rad11	3.53712e-17 (0.823)	3.53705e-17 (0.823)
Formation of rad6	6.75433e-18 (0.157)	6.75421e-18 (0.157)
H-abstraction	8.27372e-19 (0.0193)	8.27372e-19 (0.0193)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.950149	0.950149	0.950166	0.950166
Benzene+2-propynyl	0.0192623	0.969412	0.0192627	0.969428
C2H2+PhCH2	0.0164075	0.985819	0.0164078	0.985836
PhCCH+CH3	0.00739810	0.993217	0.00739823	0.993235
PhCHCCH2+H	0.00390332	0.997121	0.00390339	0.997138
PhCCCH3+H	0.00253726	0.999658	0.00253730	0.999675
Ph+MeAc	0.000245755	0.999904	0.000245760	0.999921
rad8	2.98950e-05	0.999934	2.98956e-05	0.999951
rad9	2.46815e-05	0.999958	2.46820e-05	0.999976
Phenyl+Allene	1.79045e-05	0.999976	0.00000	0.999976
PAH7+H	1.68193e-05	0.999993	1.68195e-05	0.999992
rad39	3.38120e-06	0.999996	3.38127e-06	0.999996
rad12	1.68835e-06	0.999998	1.68838e-06	0.999997
rad30	1.19029e-06	0.999999	1.19031e-06	0.999999
PAH9+H	2.90623e-07	1.000000	2.90629e-07	0.999999
rad15	2.69099e-07	1.000000	2.69104e-07	0.999999
PhCH2CCH+H	2.52107e-07	1.00000	2.52111e-07	0.999999
rad35	1.32604e-07	1.00000	1.32605e-07	1.000000
rad38	8.40809e-08	1.00000	8.40823e-08	1.000000
rad37	3.13100e-08	1.00000	3.13105e-08	1.000000
rad46	1.31334e-09	1.00000	1.31335e-09	1.000000
rad5	6.14093e-10	1.00000	6.14103e-10	1.000000
rad60syn	1.79683e-10	1.00000	1.79687e-10	1.000000
rad60anti	6.20569e-11	1.00000	6.20580e-11	1.000000
PAH3+H	1.12269e-12	1.00000	1.12271e-12	1.000000

rad59	3.50301e-13	1.00000	3.50307e-13	1.000000
rad19syn	2.39064e-13	1.00000	2.39067e-13	1.000000
rad50	3.97497e-14	1.00000	3.97505e-14	1.000000
rad54	4.20837e-15	1.00000	4.20844e-15	1.000000
PAH10+CH3	2.86444e-15	1.00000	2.86449e-15	1.000000
rad43	6.85854e-16	1.00000	6.85867e-16	1.000000
rad28	2.93415e-16	1.00000	2.93421e-16	1.000000
rad62	1.50549e-16	1.00000	1.50552e-16	1.000000
rad6	1.25197e-16	1.00000	1.25200e-16	1.000000
rad26	7.36946e-17	1.00000	7.36959e-17	1.000000
rad52	9.36563e-18	1.00000	9.36581e-18	1.000000
PhcycC3H3_A+H	6.23506e-18	1.00000	6.23517e-18	1.000000
rad70	4.03527e-18	1.00000	4.03535e-18	1.000000
rad55	1.81229e-18	1.00000	1.81231e-18	1.000000
rad2	4.24309e-19	1.00000	4.24317e-19	1.000000
rad51	1.98110e-19	1.00000	1.98114e-19	1.000000
rad10	1.69320e-19	1.00000	1.69323e-19	1.000000
PAH1+H	1.16260e-19	1.00000	1.16262e-19	1.000000
rad1	2.93497e-20	1.00000	2.93501e-20	1.000000
rad14	1.74500e-20	1.00000	1.74503e-20	1.000000
rad25	9.57701e-21	1.00000	9.57718e-21	1.000000
rad7	9.33918e-21	1.00000	9.33935e-21	1.000000
rad34	5.98216e-21	1.00000	5.98226e-21	1.000000
rad58	4.64426e-21	1.00000	4.64435e-21	1.000000
rad3	3.94262e-21	1.00000	3.94270e-21	1.000000
rad11	2.81035e-21	1.00000	2.81040e-21	1.000000
rad4	2.04272e-21	1.00000	2.04276e-21	1.000000
rad65	1.42039e-21	1.00000	1.42042e-21	1.000000
rad27	1.26702e-21	1.00000	1.26703e-21	1.000000
rad42	8.43153e-23	1.00000	8.43168e-23	1.000000
rad13	5.31161e-23	1.00000	5.31170e-23	1.000000
rad41	2.40058e-23	1.00000	2.40063e-23	1.000000
rad31	9.64788e-25	1.00000	9.64805e-25	1.000000
rad33	8.80785e-25	1.00000	8.80801e-25	1.000000
rad20	3.37425e-27	1.00000	3.37431e-27	1.000000
rad21	2.82908e-27	1.00000	2.82912e-27	1.000000
rad23	4.08588e-29	1.00000	4.08595e-29	1.000000
rad18	5.59624e-30	1.00000	5.59634e-30	1.000000
rad45	4.10239e-31	1.00000	4.10245e-31	1.000000
rad22	2.82426e-31	1.00000	2.82431e-31	1.000000
rad36	2.57672e-32	1.00000	2.57677e-32	1.000000
rad24	5.31319e-33	1.00000	5.31328e-33	1.000000
rad47	1.52506e-36	1.00000	1.52509e-36	1.000000

0.100000000E-08 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.25016e-17 (1.00)	6.25002e-17 (1.00)
Formation of rad11	5.06355e-17 (0.810)	5.06343e-17 (0.810)
Formation of rad6	1.04318e-17 (0.167)	1.04316e-17 (0.167)
H-abstraction	1.43428e-18 (0.0229)	1.43428e-18 (0.0229)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.944516	0.944516	0.944538	0.944538
Benzene+2-propynyl	0.0229478	0.967464	0.0229483	0.967487
C2H2+PhCH2	0.0172621	0.984726	0.0172625	0.984749
PhCCH+CH3	0.00798938	0.992716	0.00798957	0.992739
PhCHCCH2+H	0.00416893	0.996885	0.00416902	0.996908
PhCCCH3+H	0.00271503	0.999600	0.00271509	0.999623
Ph+MeAc	0.000288724	0.999888	0.000288730	0.999912
rad8	3.26590e-05	0.999921	3.26598e-05	0.999944
rad9	2.80961e-05	0.999949	2.80967e-05	0.999972
Phenyl+Allene	2.29542e-05	0.999972	0.000000	0.999972
PAH7+H	1.93897e-05	0.999991	1.93902e-05	0.999992
rad39	3.99906e-06	0.999995	3.99916e-06	0.999996
rad12	1.89524e-06	0.999997	1.89528e-06	0.999998
rad30	1.28233e-06	0.999999	1.28236e-06	0.999999
PhCH2CCH+H	3.81725e-07	0.999999	3.81734e-07	0.999999
PAH9+H	3.19094e-07	0.999999	3.19100e-07	1.000000
rad15	2.94806e-07	1.000000	2.94813e-07	1.000000
rad35	1.43889e-07	1.000000	1.43892e-07	1.000000
rad38	9.31440e-08	1.000000	9.31462e-08	1.000000
rad37	4.19470e-08	1.000000	4.19480e-08	1.000000
rad46	1.54769e-09	1.000000	1.54773e-09	1.000000
rad5	9.45893e-10	1.000000	9.45914e-10	1.000000
rad60syn	2.26302e-10	1.000000	2.26308e-10	1.000000
rad60anti	7.99729e-11	1.000000	7.99748e-11	1.000000
PAH3+H	1.94646e-12	1.000000	1.94651e-12	1.000000

rad59	5.91559e-13	1.000000	5.91574e-13	1.00000
rad19syn	5.76047e-13	1.000000	5.76061e-13	1.00000
rad50	6.96960e-14	1.000000	6.96976e-14	1.00000
rad54	1.17979e-14	1.000000	1.17982e-14	1.00000
PAH10+CH3	7.98676e-15	1.000000	7.98695e-15	1.00000
rad43	1.89885e-15	1.000000	1.89890e-15	1.00000
rad62	4.58150e-16	1.000000	4.58160e-16	1.00000
rad28	2.45264e-16	1.000000	2.45269e-16	1.00000
rad6	1.05813e-16	1.000000	1.05816e-16	1.00000
rad26	6.17392e-17	1.000000	6.17407e-17	1.00000
PhcycC3H3_A+H	2.44417e-17	1.000000	2.44422e-17	1.00000
rad52	2.28788e-17	1.000000	2.28794e-17	1.00000
rad70	1.51220e-17	1.000000	1.51224e-17	1.00000
rad55	6.89280e-18	1.000000	6.89295e-18	1.00000
rad51	6.35771e-19	1.000000	6.35785e-19	1.00000
PAH1+H	5.21365e-19	1.000000	5.21377e-19	1.00000
rad2	1.87304e-19	1.000000	1.87308e-19	1.00000
rad10	1.72522e-19	1.000000	1.72526e-19	1.00000
rad34	2.78859e-20	1.000000	2.78866e-20	1.00000
rad58	1.86124e-20	1.000000	1.86128e-20	1.00000
rad14	1.50054e-20	1.000000	1.50057e-20	1.00000
rad1	1.30838e-20	1.000000	1.30841e-20	1.00000
rad25	8.31328e-21	1.000000	8.31347e-21	1.00000
rad7	7.91328e-21	1.000000	7.91346e-21	1.00000
rad65	5.17416e-21	1.000000	5.17428e-21	1.00000
rad3	2.77803e-21	1.000000	2.77810e-21	1.00000
rad11	2.41377e-21	1.000000	2.41383e-21	1.00000
rad4	1.44321e-21	1.000000	1.44324e-21	1.00000
rad27	1.11335e-21	1.000000	1.11337e-21	1.00000
rad42	4.29489e-22	1.000000	4.29498e-22	1.00000
rad41	1.23970e-22	1.000000	1.23973e-22	1.00000
rad13	4.51041e-23	1.000000	4.51052e-23	1.00000
rad31	1.28051e-24	1.000000	1.28054e-24	1.00000
rad33	8.34568e-25	1.000000	8.34587e-25	1.00000
rad20	3.39802e-27	1.000000	3.39810e-27	1.00000
rad21	2.87062e-27	1.000000	2.87069e-27	1.00000
rad23	8.38938e-29	1.000000	8.38957e-29	1.00000
rad18	5.34407e-30	1.000000	5.34420e-30	1.00000
rad45	4.95470e-31	1.000000	4.95481e-31	1.00000
rad22	2.61049e-31	1.000000	2.61056e-31	1.00000
rad36	3.12484e-32	1.000000	3.12490e-32	1.00000
rad24	6.19606e-33	1.000000	6.19621e-33	1.00000
rad47	5.52650e-36	1.000000	5.52662e-36	1.00000

0.100000000E-08 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.83273e-17 (1.00)	8.83247e-17 (1.00)
Formation of rad11	7.04077e-17 (0.797)	7.04056e-17 (0.797)
Formation of rad6	1.55481e-17 (0.176)	1.55476e-17 (0.176)
H-abstraction	2.37143e-18 (0.0268)	2.37143e-18 (0.0268)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.938534	0.938534	0.938561	0.938561
Benzene+2-propynyl	0.0268483	0.965382	0.0268490	0.965410
C2H2+PhCH2	0.0181765	0.983559	0.0181771	0.983587
PhCCH+CH3	0.00862247	0.992181	0.00862271	0.992210
PhCHCCH2+H	0.00445043	0.996631	0.00445055	0.996661
PhCCCH3+H	0.00290220	0.999534	0.00290229	0.999563
Ph+MeAc	0.000337758	0.999871	0.000337767	0.999901
rad8	3.56294e-05	0.999907	3.56305e-05	0.999936
rad9	3.19609e-05	0.999939	3.19619e-05	0.999968
Phenyl+Allene	2.92584e-05	0.999968	0.00000	0.999968
PAH7+H	2.23438e-05	0.999991	2.23444e-05	0.999991
rad39	4.72012e-06	0.999995	4.72025e-06	0.999995
rad12	2.12239e-06	0.999997	2.12244e-06	0.999998
rad30	1.38320e-06	0.999999	1.38325e-06	0.999999
PhCH2CCH+H	5.66275e-07	0.999999	5.66292e-07	0.999999
PAH9+H	3.51138e-07	1.000000	3.51149e-07	1.000000
rad15	3.23403e-07	1.00000	3.23412e-07	1.00000
rad35	1.56441e-07	1.00000	1.56445e-07	1.00000
rad38	1.03425e-07	1.00000	1.03428e-07	1.00000
rad37	5.50656e-08	1.00000	5.50672e-08	1.00000
rad46	1.82809e-09	1.00000	1.82814e-09	1.00000
rad5	1.41703e-09	1.00000	1.41707e-09	1.00000
rad60syn	2.84283e-10	1.00000	2.84290e-10	1.00000
rad60anti	1.02613e-10	1.00000	1.02616e-10	1.00000
PAH3+H	3.27490e-12	1.00000	3.27499e-12	1.00000

rad19syn	1.29873e-12	1.00000	1.29877e-12	1.00000
rad59	9.70705e-13	1.00000	9.70734e-13	1.00000
rad50	1.19032e-13	1.00000	1.19036e-13	1.00000
rad54	3.05322e-14	1.00000	3.05331e-14	1.00000
PAH10+CH3	2.05205e-14	1.00000	2.05210e-14	1.00000
rad43	4.83974e-15	1.00000	4.83988e-15	1.00000
rad62	1.27363e-15	1.00000	1.27367e-15	1.00000
rad28	2.05042e-16	1.00000	2.05048e-16	1.00000
rad6	8.95658e-17	1.00000	8.95683e-17	1.00000
PhcycC3H3_A+H	8.53911e-17	1.00000	8.53936e-17	1.00000
rad52	5.25993e-17	1.00000	5.26010e-17	1.00000
rad26	5.17349e-17	1.00000	5.17364e-17	1.00000
rad70	5.07092e-17	1.00000	5.07107e-17	1.00000
rad55	2.34300e-17	1.00000	2.34307e-17	1.00000
rad2	1.11032e-17	1.00000	1.11035e-17	1.00000
PAH1+H	2.04480e-18	1.00000	2.04486e-18	1.00000
rad51	1.86868e-18	1.00000	1.86873e-18	1.00000
rad10	1.01795e-18	1.00000	1.01797e-18	1.00000
rad1	7.84240e-19	1.00000	7.84262e-19	1.00000
rad34	1.13110e-19	1.00000	1.13113e-19	1.00000
rad58	6.63439e-20	1.00000	6.63458e-20	1.00000
rad65	1.69869e-20	1.00000	1.69874e-20	1.00000
rad14	1.29175e-20	1.00000	1.29179e-20	1.00000
rad25	7.22653e-21	1.00000	7.22674e-21	1.00000
rad7	6.71588e-21	1.00000	6.71607e-21	1.00000
rad11	2.07829e-21	1.00000	2.07836e-21	1.00000
rad42	1.87991e-21	1.00000	1.87996e-21	1.00000
rad27	9.80081e-22	1.00000	9.80109e-22	1.00000
rad41	5.49128e-22	1.00000	5.49144e-22	1.00000
rad13	3.83686e-23	1.00000	3.83698e-23	1.00000
rad31	1.72991e-24	1.00000	1.72997e-24	1.00000
rad33	7.95360e-25	1.00000	7.95383e-25	1.00000
rad4	1.00537e-26	1.00000	1.00540e-26	1.00000
rad3	8.08061e-27	1.00000	8.08085e-27	1.00000
rad20	3.44262e-27	1.00000	3.44273e-27	1.00000
rad21	2.93160e-27	1.00000	2.93169e-27	1.00000
rad23	1.85140e-28	1.00000	1.85146e-28	1.00000
rad18	5.11896e-30	1.00000	5.11910e-30	1.00000
rad45	5.61191e-31	1.00000	5.61208e-31	1.00000
rad22	2.41684e-31	1.00000	2.41692e-31	1.00000
rad36	3.55584e-32	1.00000	3.55594e-32	1.00000
rad24	7.31223e-33	1.00000	7.31244e-33	1.00000
rad47	1.77440e-35	1.00000	1.77444e-35	1.00000

0.100000000E-08 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.21641e-16 (1.00)	1.21637e-16 (1.00)
Formation of rad11	9.54219e-17 (0.784)	9.54182e-17 (0.784)
Formation of rad6	2.24583e-17 (0.185)	2.24574e-17 (0.185)
H-abstraction	3.76121e-18 (0.0309)	3.76121e-18 (0.0309)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.932238	0.932238	0.932272	0.932272
Benzene+2-propynyl	0.0309205	0.963159	0.0309216	0.963193
C2H2+PhCH2	0.0191546	0.982313	0.0191553	0.982349
PhCCH+CH3	0.00929823	0.991611	0.00929857	0.991647
PhCHCCH2+H	0.00474792	0.996359	0.00474810	0.996395
PhCCCH3+H	0.00309848	0.999458	0.00309859	0.999494
Ph+MeAc	0.000393391	0.999851	0.000393405	0.999887
rad8	3.88089e-05	0.999890	3.88103e-05	0.999926
Phenyl+Allene	3.70855e-05	0.999927	0.000000	0.999926
rad9	3.63257e-05	0.999963	3.63271e-05	0.999963
PAH7+H	2.57317e-05	0.999989	2.57326e-05	0.999988
rad39	5.55895e-06	0.999995	5.55916e-06	0.999994
rad12	2.37060e-06	0.999997	2.37069e-06	0.999996
rad30	1.49367e-06	0.999999	1.49373e-06	0.999998
PhCH2CCH+H	8.24734e-07	0.999999	8.24764e-07	0.999998
PAH9+H	3.87213e-07	1.000000	3.87228e-07	0.999999
rad15	3.55187e-07	1.000000	3.55200e-07	0.999999
rad35	1.70400e-07	1.000000	1.70407e-07	0.999999
rad38	1.15089e-07	1.000000	1.15094e-07	1.000000
rad37	7.10212e-08	1.000000	7.10239e-08	1.000000
rad46	2.16348e-09	1.000000	2.16356e-09	1.000000
rad5	2.07075e-09	1.000000	2.07082e-09	1.000000
rad60syn	3.56139e-10	1.000000	3.56152e-10	1.000000
rad60anti	1.31096e-10	1.000000	1.31101e-10	1.000000
PAH3+H	5.36551e-12	1.000000	5.36572e-12	1.000000

rad19syn	2.76179e-12	1.00000	2.76189e-12	1.000000
rad59	1.55301e-12	1.00000	1.55307e-12	1.000000
rad50	1.98576e-13	1.00000	1.98584e-13	1.000000
rad54	7.36305e-14	1.00000	7.36332e-14	1.000000
PAH10+CH3	4.90484e-14	1.00000	4.90502e-14	1.000000
rad43	1.14663e-14	1.00000	1.14667e-14	1.000000
rad62	3.26830e-15	1.00000	3.26842e-15	1.000000
PhcycC3H3_A+H	2.69203e-16	1.00000	2.69212e-16	1.000000
rad28	1.71430e-16	1.00000	1.71437e-16	1.000000
rad70	1.54047e-16	1.00000	1.54052e-16	1.000000
rad52	1.14634e-16	1.00000	1.14638e-16	1.000000
rad6	7.59040e-17	1.00000	7.59068e-17	1.000000
rad55	7.20614e-17	1.00000	7.20642e-17	1.000000
rad26	4.33590e-17	1.00000	4.33606e-17	1.000000
PAH1+H	7.11981e-18	1.00000	7.12007e-18	1.000000
rad2	6.32422e-18	1.00000	6.32446e-18	1.000000
rad51	5.07774e-18	1.00000	5.07794e-18	1.000000
rad10	9.95313e-19	1.00000	9.95350e-19	1.000000
rad1	4.51880e-19	1.00000	4.51896e-19	1.000000
rad34	4.05530e-19	1.00000	4.05545e-19	1.000000
rad58	2.12987e-19	1.00000	2.12995e-19	1.000000
rad65	5.08172e-20	1.00000	5.08191e-20	1.000000
rad14	1.11326e-20	1.00000	1.11330e-20	1.000000
rad42	7.19654e-21	1.00000	7.19681e-21	1.000000
rad25	6.29077e-21	1.00000	6.29100e-21	1.000000
rad7	5.70700e-21	1.00000	5.70720e-21	1.000000
rad41	2.12408e-21	1.00000	2.12415e-21	1.000000
rad11	1.79352e-21	1.00000	1.79359e-21	1.000000
rad27	8.64330e-22	1.00000	8.64363e-22	1.000000
rad13	3.26870e-23	1.00000	3.26882e-23	1.000000
rad31	2.37650e-24	1.00000	2.37659e-24	1.000000
rad33	7.62409e-25	1.00000	7.62437e-25	1.000000
rad4	6.14816e-27	1.00000	6.14839e-27	1.000000
rad3	4.63545e-27	1.00000	4.63563e-27	1.000000
rad20	3.50939e-27	1.00000	3.50951e-27	1.000000
rad21	3.01375e-27	1.00000	3.01386e-27	1.000000
rad23	4.21089e-28	1.00000	4.21104e-28	1.000000
rad18	4.91849e-30	1.00000	4.91866e-30	1.000000
rad45	1.13369e-30	1.00000	1.13372e-30	1.000000
rad22	2.24117e-31	1.00000	2.24126e-31	1.000000
rad36	7.22093e-32	1.00000	7.22120e-32	1.000000
rad24	8.73600e-33	1.00000	8.73632e-33	1.000000
rad47	5.12438e-35	1.00000	5.12457e-35	1.000000

0.100000000E-08 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.63720e-16 (1.00)	1.63713e-16 (1.00)
Formation of rad11	1.26419e-16 (0.772)	1.26412e-16 (0.772)
Formation of rad6	3.15515e-17 (0.193)	3.15499e-17 (0.193)
H-abstraction	5.75028e-18 (0.0351)	5.75028e-18 (0.0351)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.925667	0.925667	0.925710	0.925710
Benzene+2-propynyl	0.0351226	0.960789	0.0351242	0.960834
C2H2+PhCH2	0.0201996	0.980989	0.0202006	0.981034
PhCCH+CH3	0.0100174	0.991006	0.0100178	0.991052
PhCHCCH2+H	0.00506142	0.996068	0.00506166	0.996114
PhCCCH3+H	0.00330346	0.999371	0.00330362	0.999418
Ph+MeAc	0.000456149	0.999827	0.000456170	0.999874
Phenyl+Allene	4.67508e-05	0.999874	0.00000	0.999874
rad8	4.21981e-05	0.999916	4.22001e-05	0.999916
rad9	4.12433e-05	0.999958	4.12452e-05	0.999957
PAH7+H	2.96088e-05	0.999987	2.96102e-05	0.999987
rad39	6.53167e-06	0.999994	6.53198e-06	0.999993
rad12	2.64057e-06	0.999996	2.64070e-06	0.999996
rad30	1.61455e-06	0.999998	1.61462e-06	0.999998
PhCH2CCH+H	1.18129e-06	0.999999	1.18135e-06	0.999999
PAH9+H	4.27826e-07	1.000000	4.27846e-07	0.999999
rad15	3.90482e-07	1.000000	3.90501e-07	1.000000
rad35	1.85925e-07	1.000000	1.85933e-07	1.000000
rad38	1.28323e-07	1.000000	1.28328e-07	1.000000
rad37	9.01921e-08	1.000000	9.01963e-08	1.000000
rad5	2.95913e-09	1.000000	2.95927e-09	1.000000
rad46	2.56443e-09	1.000000	2.56455e-09	1.000000
rad60syn	4.44860e-10	1.000000	4.44880e-10	1.000000
rad60anti	1.66767e-10	1.000000	1.66774e-10	1.000000
PAH3+H	8.58431e-12	1.000000	8.58471e-12	1.000000

rad19syn	5.57650e-12	1.00000	5.57676e-12	1.000000
rad59	2.42911e-12	1.00000	2.42922e-12	1.000000
rad50	3.24314e-13	1.00000	3.24329e-13	1.000000
rad54	1.66745e-13	1.00000	1.66753e-13	1.000000
PAH10+CH3	1.09928e-13	1.00000	1.09934e-13	1.000000
rad43	2.54567e-14	1.00000	2.54579e-14	1.000000
rad62	7.80914e-15	1.00000	7.80950e-15	1.000000
PhcycC3H3_A+H	7.73853e-16	1.00000	7.73889e-16	1.000000
rad70	4.28321e-16	1.00000	4.28340e-16	1.000000
rad52	2.38196e-16	1.00000	2.38208e-16	1.000000
rad55	2.02608e-16	1.00000	2.02617e-16	1.000000
rad28	1.43335e-16	1.00000	1.43342e-16	1.000000
rad6	6.44068e-17	1.00000	6.44098e-17	1.000000
rad26	3.63442e-17	1.00000	3.63459e-17	1.000000
PAH1+H	2.22906e-17	1.00000	2.22916e-17	1.000000
rad51	1.28526e-17	1.00000	1.28531e-17	1.000000
rad2	3.01730e-18	1.00000	3.01744e-18	1.000000
rad34	1.30240e-18	1.00000	1.30246e-18	1.000000
rad10	1.00613e-18	1.00000	1.00617e-18	1.000000
rad58	6.22358e-19	1.00000	6.22387e-19	1.000000
rad1	2.18159e-19	1.00000	2.18168e-19	1.000000
rad65	1.39790e-19	1.00000	1.39797e-19	1.000000
rad42	2.44584e-20	1.00000	2.44595e-20	1.000000
rad14	9.60502e-21	1.00000	9.60546e-21	1.000000
rad41	7.28487e-21	1.00000	7.28522e-21	1.000000
rad25	5.48412e-21	1.00000	5.48437e-21	1.000000
rad7	4.85620e-21	1.00000	4.85643e-21	1.000000
rad11	1.55147e-21	1.00000	1.55155e-21	1.000000
rad27	7.63664e-22	1.00000	7.63699e-22	1.000000
rad13	2.78900e-23	1.00000	2.78913e-23	1.000000
rad31	3.31651e-24	1.00000	3.31665e-24	1.000000
rad33	7.35147e-25	1.00000	7.35181e-25	1.000000
rad4	3.98180e-27	1.00000	3.98198e-27	1.000000
rad20	3.60021e-27	1.00000	3.60038e-27	1.000000
rad21	3.11939e-27	1.00000	3.11953e-27	1.000000
rad3	2.76352e-27	1.00000	2.76365e-27	1.000000
rad23	1.00226e-27	1.00000	1.00230e-27	1.000000
rad18	4.74067e-30	1.00000	4.74090e-30	1.000000
rad45	2.43891e-30	1.00000	2.43902e-30	1.000000
rad22	2.08170e-31	1.00000	2.08180e-31	1.000000
rad36	1.55919e-31	1.00000	1.55927e-31	1.000000
rad24	1.05699e-32	1.00000	1.05705e-32	1.000000
rad47	1.34824e-34	1.00000	1.34831e-34	1.000000

0.100000000E-08 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.15887e-16 (1.00)	2.15874e-16 (1.00)
Formation of rad11	1.64133e-16 (0.760)	1.64123e-16 (0.760)
Formation of rad6	4.32452e-17 (0.200)	4.32425e-17 (0.200)
H-abstraction	8.50919e-18 (0.0394)	8.50919e-18 (0.0394)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.918855	0.918855	0.918909	0.918909
Benzene+2-propynyl	0.0394150	0.958270	0.0394174	0.958326
C2H2+PhCH2	0.0213153	0.979586	0.0213165	0.979643
PhCCH+CH3	0.0107802	0.990366	0.0107808	0.990423
PhCHCCH2+H	0.00539084	0.995757	0.00539115	0.995815
PhCCCH3+H	0.00351663	0.999273	0.00351684	0.999331
Ph+MeAc	0.000526535	0.999800	0.000526566	0.999858
Phenyl+Allene	5.86216e-05	0.999858	0.000000	0.999858
rad9	4.67703e-05	0.999905	4.67730e-05	0.999905
rad8	4.57958e-05	0.999951	4.57985e-05	0.999951
PAH7+H	3.40355e-05	0.999985	3.40376e-05	0.999985
rad39	7.65596e-06	0.999993	7.65640e-06	0.999992
rad12	2.93281e-06	0.999996	2.93298e-06	0.999995
rad30	1.74667e-06	0.999997	1.74677e-06	0.999997
PhCH2CCH+H	1.66642e-06	0.999999	1.66651e-06	0.999999
PAH9+H	4.73537e-07	0.999999	4.73564e-07	0.999999
rad15	4.29630e-07	1.000000	4.29655e-07	0.999999
rad35	2.03185e-07	1.000000	2.03197e-07	1.000000
rad38	1.43333e-07	1.000000	1.43341e-07	1.000000
rad37	1.12977e-07	1.000000	1.12984e-07	1.000000
rad5	4.14381e-09	1.000000	4.14405e-09	1.000000
rad46	3.04334e-09	1.000000	3.04352e-09	1.000000
rad60syn	5.53971e-10	1.000000	5.54004e-10	1.000000
rad60anti	2.11229e-10	1.000000	2.11241e-10	1.000000
PAH3+H	1.34419e-11	1.000000	1.34427e-11	1.000000

rad19syn	1.07500e-11	1.00000	1.07506e-11	1.000000
rad59	3.72270e-12	1.00000	3.72291e-12	1.000000
rad50	5.19450e-13	1.00000	5.19480e-13	1.000000
rad54	3.56851e-13	1.00000	3.56872e-13	1.000000
PAH10+CH3	2.32537e-13	1.00000	2.32551e-13	1.000000
rad43	5.33186e-14	1.00000	5.33218e-14	1.000000
rad62	1.74991e-14	1.00000	1.75001e-14	1.000000
PhcycC3H3_A+H	2.04647e-15	1.00000	2.04659e-15	1.000000
rad70	1.09950e-15	1.00000	1.09956e-15	1.000000
rad55	5.25298e-16	1.00000	5.25328e-16	1.000000
rad52	4.74038e-16	1.00000	4.74066e-16	1.000000
rad28	1.19847e-16	1.00000	1.19855e-16	1.000000
PAH1+H	6.34376e-17	1.00000	6.34413e-17	1.000000
rad6	5.47202e-17	1.00000	5.47234e-17	1.000000
rad51	3.04907e-17	1.00000	3.04924e-17	1.000000
rad26	3.04680e-17	1.00000	3.04698e-17	1.000000
rad2	5.60458e-18	1.00000	5.60491e-18	1.000000
rad34	3.79996e-18	1.00000	3.79019e-18	1.000000
rad58	1.67024e-18	1.00000	1.67033e-18	1.000000
rad10	1.04819e-18	1.00000	1.04825e-18	1.000000
rad1	4.11048e-19	1.00000	4.11072e-19	1.000000
rad65	3.56318e-19	1.00000	3.56339e-19	1.000000
rad42	7.47520e-20	1.00000	7.47564e-20	1.000000
rad41	2.24435e-20	1.00000	2.24449e-20	1.000000
rad14	8.29664e-21	1.00000	8.29713e-21	1.000000
rad25	4.78807e-21	1.00000	4.78835e-21	1.000000
rad7	4.13788e-21	1.00000	4.13812e-21	1.000000
rad11	1.34541e-21	1.00000	1.34550e-21	1.000000
rad27	6.76011e-22	1.00000	6.76049e-22	1.000000
rad13	2.38350e-23	1.00000	2.38364e-23	1.000000
rad31	4.69573e-24	1.00000	4.69600e-24	1.000000
rad33	7.13130e-25	1.00000	7.13172e-25	1.000000
rad20	3.71764e-27	1.00000	3.71786e-27	1.000000
rad4	3.27002e-27	1.00000	3.27021e-27	1.000000
rad21	3.25155e-27	1.00000	3.25175e-27	1.000000
rad23	2.50083e-27	1.00000	2.50097e-27	1.000000
rad3	2.06299e-27	1.00000	2.06311e-27	1.000000
rad45	1.39802e-29	1.00000	1.39810e-29	1.000000
rad18	4.58393e-30	1.00000	4.58420e-30	1.000000
rad36	8.98758e-31	1.00000	8.98810e-31	1.000000
rad22	1.93698e-31	1.00000	1.93709e-31	1.000000
rad24	1.29573e-32	1.00000	1.29581e-32	1.000000
rad47	3.26704e-34	1.00000	3.26723e-34	1.000000

0.100000000E-08 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.79491e-16 (1.00)	2.79471e-16 (1.00)
Formation of rad11	2.09281e-16 (0.749)	2.09265e-16 (0.749)
Formation of rad6	5.79792e-17 (0.207)	5.79748e-17 (0.207)
H-abstraction	1.22310e-17 (0.0438)	1.22310e-17 (0.0438)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.911836	0.911836	0.911902	0.911902
Benzene+2-propynyl	0.0437616	0.955597	0.0437648	0.955667
C2H2+PhCH2	0.0225048	0.978102	0.0225064	0.978173
PhCCH+CH3	0.0115868	0.989689	0.0115877	0.989761
PhCHCCH2+H	0.00573598	0.995425	0.00573640	0.995498
PhCCCH3+H	0.00373735	0.999162	0.00373762	0.999235
Ph+MeAc	0.000605024	0.999767	0.000605068	0.999840
Phenyl+Allene	7.31232e-05	0.999840	0.000000	0.999840
rad9	5.29668e-05	0.999893	5.29707e-05	0.999893
rad8	4.95985e-05	0.999943	4.96021e-05	0.999943
PAH7+H	3.90776e-05	0.999982	3.90805e-05	0.999982
rad39	8.95101e-06	0.999991	8.95167e-06	0.999991
rad12	3.24761e-06	0.999994	3.24784e-06	0.999994
PhCH2CCH+H	2.31799e-06	0.999996	2.31816e-06	0.999996
rad30	1.89092e-06	0.999998	1.89106e-06	0.999998
PAH9+H	5.24965e-07	0.999999	5.25004e-07	0.999999
rad15	4.72996e-07	0.999999	4.73029e-07	0.999999
rad35	2.22365e-07	0.999999	2.22381e-07	0.999999
rad38	1.60350e-07	1.000000	1.60362e-07	1.000000
rad37	1.39791e-07	1.000000	1.39802e-07	1.000000
rad5	5.69647e-09	1.000000	5.69689e-09	1.000000
rad46	3.61467e-09	1.000000	3.61493e-09	1.000000
rad60syn	6.87607e-10	1.000000	6.87657e-10	1.000000
rad60anti	2.66382e-10	1.000000	2.66401e-10	1.000000
PAH3+H	2.06375e-11	1.000000	2.06390e-11	1.000000

rad19syn	1.98736e-11	1.000000	1.98751e-11	1.000000
rad59	5.59978e-12	1.000000	5.60018e-12	1.000000
rad50	8.17024e-13	1.000000	8.17085e-13	1.000000
rad54	7.25446e-13	1.000000	7.25499e-13	1.000000
PAH10+CH3	4.66810e-13	1.000000	4.66845e-13	1.000000
rad43	1.05951e-13	1.000000	1.05959e-13	1.000000
rad62	3.69972e-14	1.000000	3.69999e-14	1.000000
PhcycC3H3_A+H	5.01695e-15	1.000000	5.01732e-15	1.000000
rad70	2.62501e-15	1.000000	2.62520e-15	1.000000
rad55	1.26527e-15	1.000000	1.26537e-15	1.000000
rad52	9.06731e-16	1.000000	9.06798e-16	1.000000
PAH1+H	1.65665e-16	1.000000	1.65678e-16	1.000000
rad28	1.00211e-16	1.000000	1.00218e-16	1.000000
rad51	6.81450e-17	1.000000	6.81499e-17	1.000000
rad6	4.65537e-17	1.000000	4.65571e-17	1.000000
rad26	2.55450e-17	1.000000	2.55469e-17	1.000000
rad34	1.00923e-17	1.000000	1.00931e-17	1.000000
rad2	5.01323e-18	1.000000	5.01360e-18	1.000000
rad58	4.14902e-18	1.000000	4.14932e-18	1.000000
rad10	1.12243e-18	1.000000	1.12251e-18	1.000000
rad65	8.47088e-19	1.000000	8.47150e-19	1.000000
rad1	3.72621e-19	1.000000	3.72648e-19	1.000000
rad42	2.07735e-19	1.000000	2.07750e-19	1.000000
rad41	6.28127e-20	1.000000	6.28173e-20	1.000000
rad14	7.17514e-21	1.000000	7.17567e-21	1.000000
rad25	4.18691e-21	1.000000	4.18722e-21	1.000000
rad7	3.53096e-21	1.000000	3.53122e-21	1.000000
rad11	1.16978e-21	1.000000	1.16986e-21	1.000000
rad27	5.99605e-22	1.000000	5.99649e-22	1.000000
rad13	2.04048e-23	1.000000	2.04063e-23	1.000000
rad31	6.73550e-24	1.000000	6.73600e-24	1.000000
rad33	6.96029e-25	1.000000	6.96080e-25	1.000000
rad23	6.44862e-27	1.000000	6.44910e-27	1.000000
rad20	3.86499e-27	1.000000	3.86527e-27	1.000000
rad21	3.41413e-27	1.000000	3.41438e-27	1.000000
rad4	2.15761e-27	1.000000	2.15776e-27	1.000000
rad3	1.17836e-27	1.000000	1.17845e-27	1.000000
rad45	2.28094e-29	1.000000	2.28111e-29	1.000000
rad18	4.44694e-30	1.000000	4.44726e-30	1.000000
rad36	1.47525e-30	1.000000	1.47536e-30	1.000000
rad22	1.80597e-31	1.000000	1.80611e-31	1.000000
rad24	1.61000e-32	1.000000	1.61012e-32	1.000000
rad47	7.35922e-34	1.000000	7.35976e-34	1.000000

0.100000000E-08 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.55893e-16 (1.00)	3.55861e-16 (1.00)
Formation of rad11	2.62555e-16 (0.738)	2.62530e-16 (0.738)
Formation of rad6	7.62093e-17 (0.214)	7.62020e-17 (0.214)
H-abstraction	1.71289e-17 (0.0481)	1.71289e-17 (0.0481)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.904639	0.904639	0.904720	0.904720
Benzene+2-propynyl	0.0481294	0.952768	0.0481337	0.952854
C2H2+PhCH2	0.0237715	0.976540	0.0237736	0.976628
PhCCH+CH3	0.0124370	0.988977	0.0124382	0.989066
PhCHCCH2+H	0.00609654	0.995073	0.00609709	0.995163
PhCCCH3+H	0.00396486	0.999038	0.00396522	0.999128
Ph+MeAc	0.000692046	0.999730	0.000692109	0.999820
Phenyl+Allene	9.07433e-05	0.999821	0.000000	0.999820
rad9	5.98965e-05	0.999881	5.99019e-05	0.999880
rad8	5.36003e-05	0.999934	5.36052e-05	0.999934
PAH7+H	4.48062e-05	0.999979	4.48102e-05	0.999979
rad39	1.04376e-05	0.999990	1.04385e-05	0.999989
rad12	3.58505e-06	0.999993	3.58538e-06	0.999993
PhCH2CCH+H	3.18249e-06	0.999996	3.18278e-06	0.999996
rad30	2.04822e-06	0.999999	2.04840e-06	0.999998
PAH9+H	5.82790e-07	0.999999	5.82843e-07	0.999998
rad15	5.20962e-07	1.000000	5.21009e-07	0.999999
rad35	2.43665e-07	1.000000	2.43686e-07	0.999999
rad38	1.79629e-07	1.000000	1.79646e-07	0.999999
rad37	1.71060e-07	1.000000	1.71075e-07	1.000000
rad5	7.69913e-09	1.000000	7.69983e-09	1.000000
rad46	4.29520e-09	1.000000	4.29559e-09	1.000000
rad60syn	8.50568e-10	1.000000	8.50645e-10	1.000000
rad60anti	3.34454e-10	1.000000	3.34484e-10	1.000000
rad19syn	3.53639e-11	1.000000	3.53671e-11	1.000000

PAH3+H	3.11103e-11	1.00000	3.11131e-11	1.000000
rad59	8.27909e-12	1.00000	8.27984e-12	1.000000
rad54	1.40689e-12	1.00000	1.40702e-12	1.000000
rad50	1.26312e-12	1.00000	1.26324e-12	1.000000
PAH10+CH3	8.93383e-13	1.00000	8.93464e-13	1.000000
rad43	2.00697e-13	1.00000	2.00715e-13	1.000000
rad62	7.41772e-14	1.00000	7.41839e-14	1.000000
PhcycC3H3_A+H	1.14777e-14	1.00000	1.14787e-14	1.000000
rad70	5.86613e-15	1.00000	5.86667e-15	1.000000
rad55	2.84964e-15	1.00000	2.84991e-15	1.000000
rad52	1.67154e-15	1.00000	1.67169e-15	1.000000
PAH1+H	4.00257e-16	1.00000	4.00293e-16	1.000000
rad51	1.44108e-16	1.00000	1.44120e-16	1.000000
rad28	8.37942e-17	1.00000	8.38018e-17	1.000000
rad6	3.96682e-17	1.00000	3.96717e-17	1.000000
rad34	2.48053e-17	1.00000	2.48074e-17	1.000000
rad26	2.14204e-17	1.00000	2.14224e-17	1.000000
rad58	9.60514e-18	1.00000	9.60604e-18	1.000000
rad2	2.70146e-18	1.00000	2.70170e-18	1.000000
rad65	1.88893e-18	1.00000	1.88910e-18	1.000000
rad10	1.23251e-18	1.00000	1.23262e-18	1.000000
rad42	5.29961e-19	1.00000	5.30009e-19	1.000000
rad3	4.86562e-19	1.00000	4.86606e-19	1.000000
rad4	2.58525e-19	1.00000	2.58549e-19	1.000000
rad1	2.04092e-19	1.00000	2.04111e-19	1.000000
rad41	1.61253e-19	1.00000	1.61268e-19	1.000000
rad14	6.21315e-21	1.00000	6.21372e-21	1.000000
rad25	3.66726e-21	1.00000	3.66759e-21	1.000000
rad7	3.01809e-21	1.00000	3.01836e-21	1.000000
rad11	1.01995e-21	1.00000	1.02004e-21	1.000000
rad27	5.32941e-22	1.00000	5.32990e-22	1.000000
rad13	1.75028e-23	1.00000	1.75043e-23	1.000000
rad31	9.77162e-24	1.00000	9.77253e-24	1.000000
rad33	6.83620e-25	1.00000	6.83682e-25	1.000000
rad23	1.72475e-26	1.00000	1.72491e-26	1.000000
rad20	4.04648e-27	1.00000	4.04685e-27	1.000000
rad21	3.61207e-27	1.00000	3.61241e-27	1.000000
rad45	6.15430e-29	1.00000	6.15486e-29	1.000000
rad18	4.32867e-30	1.00000	4.32906e-30	1.000000
rad36	4.01070e-30	1.00000	4.01106e-30	1.000000
rad22	1.68831e-31	1.00000	1.68847e-31	1.000000
rad24	2.02863e-32	1.00000	2.02881e-32	1.000000
rad47	1.55335e-33	1.00000	1.55349e-33	1.000000

0.100000000E-08 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.34395e-16 (1.00)	6.34337e-16 (1.00)
Formation of rad11	4.51153e-16 (0.711)	4.51110e-16 (0.711)
Formation of rad6	1.51589e-16 (0.239)	1.51574e-16 (0.239)
H-abstraction	3.16530e-17 (0.0499)	3.16530e-17 (0.0499)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.891220	0.891220	0.891301	0.891301
Benzene+2-propynyl	0.0498949	0.941114	0.0498994	0.941200
C2H2+PhCH2	0.0319123	0.973027	0.0319153	0.973115
PhCCH+CH3	0.0149062	0.987933	0.0149076	0.988023
PhCHCCH2+H	0.00657748	0.994510	0.00657808	0.994601
PhCCCH3+H	0.00446904	0.998979	0.00446944	0.999071
Ph+MeAc	0.000840208	0.999820	0.000840285	0.999911
Phenyl+Allene	9.13505e-05	0.999911	0.000000	0.999911
PAH7+H	6.60543e-05	0.999977	6.60603e-05	0.999977
rad39	1.31473e-05	0.999990	1.31484e-05	0.999990
PhCH2CCH+H	5.22128e-06	0.999995	5.22175e-06	0.999995
rad30	2.21236e-06	0.999998	2.21257e-06	0.999997
PAH9+H	8.00108e-07	0.999998	8.00181e-07	0.999998
rad19anti	7.04525e-07	0.999999	7.04590e-07	0.999999
rad35	2.87143e-07	0.999999	2.87169e-07	0.999999
rad37	2.27555e-07	1.000000	2.27576e-07	1.000000
rad38	2.12987e-07	1.000000	2.13006e-07	1.000000
rad46	5.68759e-09	1.000000	5.68810e-09	1.000000
rad60syn	1.08211e-09	1.000000	1.08221e-09	1.000000
rad60anti	4.39254e-10	1.000000	4.39293e-10	1.000000
rad19syn	6.92341e-11	1.000000	6.92404e-11	1.000000
PAH3+H	6.10400e-11	1.000000	6.10456e-11	1.000000
rad59	1.31853e-11	1.000000	1.31864e-11	1.000000
rad54	3.21887e-12	1.000000	3.21917e-12	1.000000
rad50	2.22681e-12	1.000000	2.22701e-12	1.000000

PAH10+CH3	2.02585e-12	1.000000	2.02603e-12	1.000000
rad67	7.75554e-13	1.000000	7.75624e-13	1.000000
rad43	4.01324e-13	1.000000	4.01360e-13	1.000000
rad62	1.66581e-13	1.000000	1.66596e-13	1.000000
PhcycC3H3_A+H	4.89128e-14	1.000000	4.89173e-14	1.000000
rad70	1.94638e-14	1.000000	1.94656e-14	1.000000
rad55	8.48746e-15	1.000000	8.48824e-15	1.000000
rad6	6.49624e-15	1.000000	6.49684e-15	1.000000
rad52	3.84231e-15	1.000000	3.84266e-15	1.000000
PAH1+H	2.34440e-15	1.000000	2.34461e-15	1.000000
rad28	1.37560e-15	1.000000	1.37573e-15	1.000000
rad26	5.99428e-16	1.000000	5.99483e-16	1.000000
rad51	4.07404e-16	1.000000	4.07441e-16	1.000000
rad2	1.67314e-16	1.000000	1.67330e-16	1.000000
rad34	1.57781e-16	1.000000	1.57796e-16	1.000000
rad10	7.97986e-17	1.000000	7.98059e-17	1.000000
rad58	2.99505e-17	1.000000	2.99533e-17	1.000000
rad1	1.25907e-17	1.000000	1.25918e-17	1.000000
rad65	6.35783e-18	1.000000	6.35841e-18	1.000000
rad42	4.93395e-18	1.000000	4.93440e-18	1.000000
rad41	1.53085e-18	1.000000	1.53098e-18	1.000000
rad3	1.13812e-18	1.000000	1.13823e-18	1.000000
rad7	5.97617e-19	1.000000	5.97671e-19	1.000000
rad4	5.65358e-19	1.000000	5.65410e-19	1.000000
rad11	3.02227e-19	1.000000	3.02254e-19	1.000000
rad53	1.09682e-19	1.000000	1.09692e-19	1.000000
rad25	6.59085e-20	1.000000	6.59145e-20	1.000000
rad14	5.72398e-20	1.000000	5.72451e-20	1.000000
rad64	2.63852e-20	1.000000	2.63876e-20	1.000000
rad27	1.47827e-20	1.000000	1.47840e-20	1.000000
rad13	3.95632e-21	1.000000	3.95668e-21	1.000000
rad23	2.60797e-21	1.000000	2.60821e-21	1.000000
rad33	3.95850e-22	1.000000	3.95886e-22	1.000000
rad56	3.10995e-22	1.000000	3.11023e-22	1.000000
rad31	2.87608e-22	1.000000	2.87634e-22	1.000000
rad45	2.08290e-22	1.000000	2.08309e-22	1.000000
rad61	3.56436e-23	1.000000	3.56468e-23	1.000000
rad68syn	3.28824e-23	1.000000	3.28854e-23	1.000000
rad68anti	2.37014e-23	1.000000	2.37036e-23	1.000000
rad21	1.10050e-23	1.000000	1.10060e-23	1.000000
rad20	8.39464e-24	1.000000	8.39539e-24	1.000000
rad36	7.11934e-24	1.000000	7.11999e-24	1.000000
rad18	8.01400e-26	1.000000	8.01474e-26	1.000000
rad9	6.13980e-26	1.000000	6.14036e-26	1.000000
rad40syn	5.33122e-26	1.000000	5.33171e-26	1.000000
rad22	5.01324e-26	1.000000	5.01370e-26	1.000000
rad40anti	1.32361e-26	1.000000	1.32374e-26	1.000000
PAH8+H	1.18606e-26	1.000000	1.18617e-26	1.000000
rad73	1.00619e-26	1.000000	1.00629e-26	1.000000
rad5	2.39481e-27	1.000000	2.39502e-27	1.000000
rad24	4.89138e-28	1.000000	4.89182e-28	1.000000
rad71	9.35036e-29	1.000000	9.35121e-29	1.000000
rad15	3.56338e-29	1.000000	3.56370e-29	1.000000
rad12	1.71989e-31	1.000000	1.72004e-31	1.000000
rad47	2.86302e-33	1.000000	2.86328e-33	1.000000
rad72	1.61637e-42	1.000000	1.61652e-42	1.000000
rad8	1.55101e-44	1.000000	1.55115e-44	1.000000

0.100000000E-08 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.11288e-15 (1.00)	5.10968e-15 (1.00)
Formation of rad11	3.08094e-15 (0.603)	3.07881e-15 (0.603)
Formation of rad6	1.54092e-15 (0.301)	1.53985e-15 (0.301)
H-abstraction	4.91025e-16 (0.0960)	4.91025e-16 (0.0961)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.804485	0.804485	0.804989	0.804989
Benzene+2-propynyl	0.0960368	0.900522	0.0960969	0.901086
C2H2+PhCH2	0.0525421	0.953064	0.0525751	0.953661
PhCCH+CH3	0.0262535	0.979317	0.0262700	0.979931
PhCHCCH2+H	0.0106706	0.989988	0.0106772	0.990608
PhCCCH3+H	0.00676080	0.996749	0.00676504	0.997373
Ph+MeAc	0.00228512	0.999034	0.00228655	0.999660
Phenyl+Allene	0.000625754	0.999659	0.000000	0.999660
PAH7+H	0.000215668	0.999875	0.000215804	0.999875
PhCH2CCH+H	6.37921e-05	0.999939	6.38320e-05	0.999939
rad39	4.88390e-05	0.999988	4.88696e-05	0.999988

rad30	4.71374e-06	0.999992	4.71670e-06	0.999993
rad19anti	2.55284e-06	0.999995	2.55443e-06	0.999995
PAH9+H	2.27172e-06	0.999997	2.27314e-06	0.999998
rad37	9.72231e-07	0.999998	9.72835e-07	0.999999
rad35	7.27597e-07	0.999999	7.28053e-07	0.999999
rad38	6.64248e-07	1.000000	6.64664e-07	1.000000
rad46	2.95927e-08	1.000000	2.96112e-08	1.000000
rad60syn	6.77132e-09	1.000000	6.77556e-09	1.000000
rad19syn	4.62790e-09	1.000000	4.63079e-09	1.000000
rad60anti	3.07480e-09	1.000000	3.07673e-09	1.000000
PAH3+H	1.45800e-09	1.000000	1.45892e-09	1.000000
rad54	4.18669e-10	1.000000	4.18931e-10	1.000000
rad59	2.84711e-10	1.000000	2.84889e-10	1.000000
PAH10+CH3	1.98074e-10	1.000000	1.98198e-10	1.000000
rad50	7.81204e-11	1.000000	7.81693e-11	1.000000
rad43	3.26732e-11	1.000000	3.26936e-11	1.000000
rad67	2.48951e-11	1.000000	2.49108e-11	1.000000
PhcycC3H3_A+H	2.37988e-11	1.000000	2.38137e-11	1.000000
rad62	2.26679e-11	1.000000	2.26821e-11	1.000000
rad70	7.63979e-12	1.000000	7.64458e-12	1.000000
rad55	3.50822e-12	1.000000	3.51042e-12	1.000000
PAH1+H	2.19400e-12	1.000000	2.19537e-12	1.000000
rad52	4.56316e-13	1.000000	4.56602e-13	1.000000
rad34	1.75088e-13	1.000000	1.75198e-13	1.000000
rad51	1.36997e-13	1.000000	1.37083e-13	1.000000
rad58	1.74184e-14	1.000000	1.74293e-14	1.000000
rad42	7.28195e-15	1.000000	7.28651e-15	1.000000
rad65	3.20497e-15	1.000000	3.20698e-15	1.000000
rad41	2.20567e-15	1.000000	2.20705e-15	1.000000
rad6	1.51438e-15	1.000000	1.51533e-15	1.000000
rad53	9.04225e-16	1.000000	9.04789e-16	1.000000
rad64	3.15111e-16	1.000000	3.15309e-16	1.000000
rad28	2.74421e-16	1.000000	2.74592e-16	1.000000
rad26	1.17644e-16	1.000000	1.17718e-16	1.000000
rad56	1.60193e-17	1.000000	1.60293e-17	1.000000
rad23	5.54063e-18	1.000000	5.54411e-18	1.000000
rad68syn	1.85188e-18	1.000000	1.85304e-18	1.000000
rad68anti	1.33289e-18	1.000000	1.33373e-18	1.000000
rad61	9.28153e-19	1.000000	9.28733e-19	1.000000
rad4	7.26431e-19	1.000000	7.26885e-19	1.000000
rad3	4.46947e-19	1.000000	4.47227e-19	1.000000
rad45	2.64934e-19	1.000000	2.65099e-19	1.000000
rad7	1.53875e-19	1.000000	1.53972e-19	1.000000
rad10	1.36828e-19	1.000000	1.36914e-19	1.000000
rad11	1.28380e-19	1.000000	1.28460e-19	1.000000
rad1	7.17869e-20	1.000000	7.18318e-20	1.000000
rad25	2.27145e-20	1.000000	2.27287e-20	1.000000
rad14	1.81611e-20	1.000000	1.81724e-20	1.000000
rad40syn	1.44546e-20	1.000000	1.44636e-20	1.000000
rad36	1.14081e-20	1.000000	1.14153e-20	1.000000
PAH8+H	8.90780e-21	1.000000	8.91337e-21	1.000000
rad27	5.95391e-21	1.000000	5.95763e-21	1.000000
rad31	4.49562e-21	1.000000	4.49843e-21	1.000000
rad40anti	3.67526e-21	1.000000	3.67756e-21	1.000000
rad73	2.38291e-21	1.000000	2.38440e-21	1.000000
rad13	1.64272e-21	1.000000	1.64375e-21	1.000000
rad33	4.84551e-22	1.000000	4.84855e-22	1.000000
rad2	3.64306e-22	1.000000	3.64535e-22	1.000000
rad71	9.34273e-23	1.000000	9.34862e-23	1.000000
rad21	2.89558e-23	1.000000	2.89739e-23	1.000000
rad20	1.85108e-23	1.000000	1.85224e-23	1.000000
rad9	1.32879e-24	1.000000	1.32962e-24	1.000000
rad18	8.22034e-26	1.000000	8.22548e-26	1.000000
rad22	4.06476e-26	1.000000	4.06730e-26	1.000000
rad24	1.02123e-26	1.000000	1.02186e-26	1.000000
rad5	3.45574e-27	1.000000	3.45790e-27	1.000000
rad15	8.00665e-28	1.000000	8.01166e-28	1.000000
rad72	8.88314e-29	1.000000	8.88869e-29	1.000000
rad12	1.76907e-29	1.000000	1.77018e-29	1.000000
rad47	7.50666e-31	1.000000	7.51136e-31	1.000000
rad8	4.40934e-42	1.000000	4.41210e-42	1.000000

0.100000000E-08 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.11551e-14 (1.00)	2.10968e-14 (1.00)
Formation of rad11	1.10850e-14 (0.524)	1.10494e-14 (0.524)
Formation of rad6	7.08033e-15 (0.335)	7.05760e-15 (0.335)
H-abstraction	2.98976e-15 (0.141)	2.98976e-15 (0.142)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.706762	0.706762	0.708716	0.708716
Benzene+2-propynyl	0.141326	0.848088	0.141717	0.850433
C2H2+PhCH2	0.0811037	0.929191	0.0813279	0.931761
PhCCH+CH3	0.0389496	0.968141	0.0390573	0.970818
PhCHCCH2+H	0.0153921	0.983533	0.0154346	0.986253
PhCCCH3+H	0.00823928	0.991772	0.00826206	0.994515
Ph+MeAc	0.00432839	0.996101	0.00434036	0.998855
Phenyl+Allene	0.00275756	0.998858	0.000000	0.998855
PAH7+H	0.000574793	0.999433	0.000576383	0.999432
PhCH2CCH+H	0.000399546	0.999833	0.000400651	0.999832
rad39	0.000137925	0.999971	0.000138306	0.999971
rad30	9.14625e-06	0.999980	9.17153e-06	0.999980
rad19anti	7.87872e-06	0.999988	7.90052e-06	0.999988
PAH9+H	6.12734e-06	0.999994	6.14428e-06	0.999994
rad37	2.41829e-06	0.999996	2.42498e-06	0.999996
rad38	1.93439e-06	0.999998	1.93974e-06	0.999998
rad35	1.76562e-06	1.000000	1.77051e-06	1.000000
rad46	1.27870e-07	1.000000	1.28224e-07	1.000000
rad19syn	7.63986e-08	1.000000	7.66098e-08	1.000000
rad60syn	2.91346e-08	1.000000	2.92151e-08	1.000000
PAH3+H	1.45909e-08	1.000000	1.46312e-08	1.000000
rad60anti	1.41795e-08	1.000000	1.42187e-08	1.000000
rad54	1.02843e-08	1.000000	1.03128e-08	1.000000
PAH10+CH3	3.35592e-09	1.000000	3.36520e-09	1.000000
rad59	2.61933e-09	1.000000	2.62658e-09	1.000000
PhcycC3H3_A+H	1.25838e-09	1.000000	1.26187e-09	1.000000
rad50	1.15864e-09	1.000000	1.16185e-09	1.000000
rad62	4.84009e-10	1.000000	4.85347e-10	1.000000
rad43	4.60419e-10	1.000000	4.61691e-10	1.000000
rad67	3.97898e-10	1.000000	3.98999e-10	1.000000
rad70	3.42517e-10	1.000000	3.43464e-10	1.000000
PAH1+H	1.64298e-10	1.000000	1.64753e-10	1.000000
rad55	1.59822e-10	1.000000	1.60264e-10	1.000000
rad34	1.41616e-11	1.000000	1.42007e-11	1.000000
rad52	1.34820e-11	1.000000	1.35193e-11	1.000000
rad51	7.24796e-12	1.000000	7.26800e-12	1.000000
rad58	1.01105e-12	1.000000	1.01385e-12	1.000000
rad42	6.16327e-13	1.000000	6.18031e-13	1.000000
rad53	2.35883e-13	1.000000	2.36535e-13	1.000000
rad65	2.01730e-13	1.000000	2.02287e-13	1.000000
rad41	1.64828e-13	1.000000	1.65283e-13	1.000000
rad64	9.67571e-14	1.000000	9.70247e-14	1.000000
rad2	5.38183e-14	1.000000	5.39671e-14	1.000000
rad56	1.22099e-14	1.000000	1.22437e-14	1.000000
rad1	6.28957e-15	1.000000	6.30696e-15	1.000000
rad68syn	1.45353e-15	1.000000	1.45755e-15	1.000000
rad10	1.13427e-15	1.000000	1.13740e-15	1.000000
rad68anti	1.02673e-15	1.000000	1.02957e-15	1.000000
rad23	6.36903e-16	1.000000	6.38664e-16	1.000000
rad6	4.30602e-16	1.000000	4.31792e-16	1.000000
rad61	4.14122e-16	1.000000	4.15268e-16	1.000000
rad3	2.34179e-16	1.000000	2.34826e-16	1.000000
rad45	1.94358e-16	1.000000	1.94896e-16	1.000000
rad4	1.44976e-16	1.000000	1.45377e-16	1.000000
rad28	5.70771e-17	1.000000	5.72350e-17	1.000000
PAH8+H	3.33496e-17	1.000000	3.34418e-17	1.000000
rad40syn	2.92057e-17	1.000000	2.92865e-17	1.000000
rad26	2.41604e-17	1.000000	2.42272e-17	1.000000
rad36	1.03662e-17	1.000000	1.03948e-17	1.000000
rad40anti	8.32431e-18	1.000000	8.34732e-18	1.000000
rad73	5.15895e-18	1.000000	5.17322e-18	1.000000
rad71	4.73020e-19	1.000000	4.74328e-19	1.000000
rad11	8.46712e-20	1.000000	8.49054e-20	1.000000
rad7	5.23310e-20	1.000000	5.24757e-20	1.000000
rad31	2.28423e-20	1.000000	2.29054e-20	1.000000
rad25	1.03857e-20	1.000000	1.04143e-20	1.000000
rad14	7.33208e-21	1.000000	7.35236e-21	1.000000
rad27	3.27929e-21	1.000000	3.28836e-21	1.000000
rad13	1.97829e-21	1.000000	1.98376e-21	1.000000
rad33	1.13664e-21	1.000000	1.13977e-21	1.000000
rad21	1.71850e-22	1.000000	1.72325e-22	1.000000
rad9	8.86246e-23	1.000000	8.88692e-23	1.000000
rad20	8.81103e-23	1.000000	8.83534e-23	1.000000
rad72	8.05354e-24	1.000000	8.07581e-24	1.000000
rad24	6.91963e-25	1.000000	6.93876e-25	1.000000
rad22	4.33509e-25	1.000000	4.34707e-25	1.000000
rad18	1.33382e-25	1.000000	1.33751e-25	1.000000

rad15	5.65043e-26	1.00000	5.66605e-26	1.00000
rad12	6.95667e-27	1.00000	6.97591e-27	1.00000
rad5	3.19206e-27	1.00000	3.20089e-27	1.00000
rad47	4.86077e-29	1.00000	4.87421e-29	1.00000
rad8	8.30250e-39	1.00000	8.32545e-39	1.00000

0.100000000E-08 Pa, 600.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	6.08120e-14	(1.00)	6.02869e-14	(1.00)
Formation of rad11	2.83304e-14	(0.466)	2.80313e-14	(0.465)
Formation of rad6	2.13840e-14	(0.352)	2.11582e-14	(0.351)
H-abstraction	1.10975e-14	(0.182)	1.10975e-14	(0.184)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.606934	0.606934	0.612219	0.612219
Benzene+2-propynyl	0.182488	0.789422	0.184077	0.796297
C2H2+PhCH2	0.112836	0.902258	0.113819	0.910116
PhCCH+CH3	0.0502927	0.952551	0.0507307	0.960846
PhCHCCH2+H	0.0208956	0.973447	0.0210776	0.981924
Phenyl+Allene	0.00863333	0.982080	0.000000	0.981924
PhCCCH3+H	0.00840933	0.990489	0.00848258	0.990406
Ph+MeAc	0.00630896	0.996798	0.00636390	0.996770
PhCH2CCH+H	0.00158536	0.998384	0.00159917	0.998369
PAH7+H	0.00124706	0.999631	0.00125792	0.999627
rad39	0.000304554	0.999935	0.000307206	0.999935
rad19anti	2.07283e-05	0.999956	2.09088e-05	0.999955
rad30	1.54421e-05	0.999971	1.55766e-05	0.999971
PAH9+H	1.45719e-05	0.999986	1.46988e-05	0.999986
rad38	4.88300e-06	0.999991	4.92552e-06	0.999991
rad37	4.23980e-06	0.999995	4.27673e-06	0.999995
rad35	3.83137e-06	0.999999	3.86474e-06	0.999999
rad19syn	5.75843e-07	1.000000	5.80858e-07	0.999999
rad46	4.35560e-07	1.000000	4.39353e-07	1.000000
rad54	1.01017e-07	1.000000	1.01897e-07	1.000000
rad60syn	8.96254e-08	1.000000	9.04058e-08	1.000000
PAH3+H	8.11822e-08	1.000000	8.18892e-08	1.000000
rad60anti	4.57655e-08	1.000000	4.61641e-08	1.000000
PAH10+CH3	2.25831e-08	1.000000	2.27797e-08	1.000000
PhcycC3H3_A+H	2.05528e-08	1.000000	2.07318e-08	1.000000
rad59	1.35486e-08	1.000000	1.36666e-08	1.000000
rad50	9.40269e-09	1.000000	9.48453e-09	1.000000
rad70	4.88193e-09	1.000000	4.92445e-09	1.000000
rad62	3.91161e-09	1.000000	3.94568e-09	1.000000
rad67	3.65819e-09	1.000000	3.69004e-09	1.000000
PAH1+H	3.25971e-09	1.000000	3.28810e-09	1.000000
rad43	2.57504e-09	1.000000	2.59746e-09	1.000000
rad55	2.29328e-09	1.000000	2.31325e-09	1.000000
rad34	2.96007e-10	1.000000	2.98585e-10	1.000000
rad52	1.70972e-10	1.000000	1.72461e-10	1.000000
rad51	1.34047e-10	1.000000	1.35214e-10	1.000000
rad58	1.71337e-11	1.000000	1.72829e-11	1.000000
rad42	1.22225e-11	1.000000	1.23290e-11	1.000000
rad53	1.06169e-11	1.000000	1.07093e-11	1.000000
rad64	4.60104e-12	1.000000	4.64111e-12	1.000000
rad65	4.04333e-12	1.000000	4.07854e-12	1.000000
rad41	2.76375e-12	1.000000	2.78781e-12	1.000000
rad56	1.10531e-12	1.000000	1.11493e-12	1.000000
rad68syn	1.32095e-13	1.000000	1.33246e-13	1.000000
rad68anti	9.18033e-14	1.000000	9.26031e-14	1.000000
rad2	2.96269e-14	1.000000	2.98849e-14	1.000000
rad61	2.45770e-14	1.000000	2.47910e-14	1.000000
PAH8+H	8.64322e-15	1.000000	8.71846e-15	1.000000
rad40syn	4.97708e-15	1.000000	5.02043e-15	1.000000
rad1	4.63290e-15	1.000000	4.67325e-15	1.000000
rad23	3.60226e-15	1.000000	3.63363e-15	1.000000
rad3	1.84344e-15	1.000000	1.85950e-15	1.000000
rad40anti	1.59900e-15	1.000000	1.61292e-15	1.000000
rad4	1.25838e-15	1.000000	1.26934e-15	1.000000
rad45	1.16014e-15	1.000000	1.17025e-15	1.000000
rad73	1.02446e-15	1.000000	1.03337e-15	1.000000
rad10	7.70973e-16	1.000000	7.77688e-16	1.000000
rad71	1.65707e-16	1.000000	1.67150e-16	1.000000
rad6	1.53808e-16	1.000000	1.55148e-16	1.000000
rad36	1.02420e-16	1.000000	1.03312e-16	1.000000
rad28	1.32378e-17	1.000000	1.33531e-17	1.000000
rad26	5.56730e-18	1.000000	5.61578e-18	1.000000
rad11	9.43400e-20	1.000000	9.51619e-20	1.000000

rad31	3.07518e-20	1.00000	3.10197e-20	1.00000
rad7	2.78237e-20	1.00000	2.80659e-20	1.00000
rad72	1.83416e-20	1.00000	1.85014e-20	1.00000
rad9	9.80842e-21	1.00000	9.89379e-21	1.00000
rad25	7.31622e-21	1.00000	7.37994e-21	1.00000
rad13	7.19692e-21	1.00000	7.25959e-21	1.00000
rad33	5.23355e-21	1.00000	5.27912e-21	1.00000
rad14	4.27490e-21	1.00000	4.31213e-21	1.00000
rad27	2.76898e-21	1.00000	2.79309e-21	1.00000
rad21	2.17601e-21	1.00000	2.19496e-21	1.00000
rad20	9.04716e-22	1.00000	9.12601e-22	1.00000
rad24	7.30642e-23	1.00000	7.37005e-23	1.00000
rad15	5.91251e-24	1.00000	5.96400e-24	1.00000
rad12	3.30939e-24	1.00000	3.33821e-24	1.00000
rad22	1.90527e-24	1.00000	1.92186e-24	1.00000
rad18	3.85103e-25	1.00000	3.88457e-25	1.00000
rad5	2.68867e-27	1.00000	2.71209e-27	1.00000
rad47	1.06838e-27	1.00000	1.07769e-27	1.00000
rad8	7.32789e-35	1.00000	7.39170e-35	1.00000

0.100000000E-08 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.39564e-13 (1.00)	1.36669e-13 (1.00)
Formation of rad11	5.88273e-14 (0.422)	5.72650e-14 (0.419)
Formation of rad6	5.01684e-14 (0.359)	4.88360e-14 (0.357)
H-abstraction	3.05678e-14 (0.219)	3.05678e-14 (0.224)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.510454	0.510454	0.521265	0.521265
Benzene+2-propynyl	0.219024	0.729478	0.223663	0.744928
C2H2+PhCH2	0.140690	0.870167	0.143670	0.888598
PhCCH+CH3	0.0586093	0.928777	0.0598506	0.948449
PhCHCCH2+H	0.0277623	0.956539	0.0283503	0.976799
Phenyl+Allene	0.0207415	0.977280	0.000000	0.976799
Ph+MeAc	0.00771340	0.984994	0.00787679	0.984676
PhCCCH3+H	0.00756061	0.992554	0.00772075	0.992396
PhCH2CCH+H	0.00451180	0.997066	0.00460736	0.997004
PAH7+H	0.00225727	0.999324	0.00230508	0.999309
rad39	0.000548289	0.999872	0.000559902	0.999869
rad19anti	4.66037e-05	0.999918	4.75908e-05	0.999916
PAH9+H	2.99985e-05	0.999948	3.06339e-05	0.999947
rad30	2.26762e-05	0.999971	2.31565e-05	0.999970
rad38	1.05314e-05	0.999982	1.07544e-05	0.999981
rad35	7.29844e-06	0.999989	7.45303e-06	0.999988
rad37	5.93522e-06	0.999995	6.06093e-06	0.999994
rad19syn	2.61380e-06	0.999998	2.66916e-06	0.999997
rad46	1.18432e-06	0.999999	1.20940e-06	0.999998
rad54	5.53865e-07	0.999999	5.65596e-07	0.999999
PAH3+H	2.96686e-07	1.000000	3.02969e-07	0.999999
rad60syn	2.09904e-07	1.000000	2.14349e-07	0.999999
PhcycC3H3_A+H	1.62838e-07	1.000000	1.66287e-07	1.000000
rad60anti	1.11059e-07	1.000000	1.13411e-07	1.000000
PAH10+CH3	8.88407e-08	1.000000	9.07227e-08	1.000000
rad50	4.89398e-08	1.000000	4.99764e-08	1.000000
rad59	4.64276e-08	1.000000	4.74110e-08	1.000000
rad70	3.43279e-08	1.000000	3.50550e-08	1.000000
PAH1+H	2.87927e-08	1.000000	2.94026e-08	1.000000
rad67	2.16413e-08	1.000000	2.20997e-08	1.000000
rad62	1.75396e-08	1.000000	1.79112e-08	1.000000
rad55	1.62462e-08	1.000000	1.65903e-08	1.000000
rad43	8.26632e-09	1.000000	8.44142e-09	1.000000
rad34	2.73084e-09	1.000000	2.78868e-09	1.000000
rad51	1.25002e-09	1.000000	1.27650e-09	1.000000
rad52	1.21856e-09	1.000000	1.24437e-09	1.000000
rad53	1.69563e-10	1.000000	1.73154e-10	1.000000
rad58	1.35852e-10	1.000000	1.38730e-10	1.000000
rad42	1.03499e-10	1.000000	1.05691e-10	1.000000
rad64	7.31424e-11	1.000000	7.46916e-11	1.000000
rad65	3.91347e-11	1.000000	3.99636e-11	1.000000
rad56	2.88481e-11	1.000000	2.94592e-11	1.000000
rad41	1.94813e-11	1.000000	1.98939e-11	1.000000
rad68syn	3.41597e-12	1.000000	3.48832e-12	1.000000
rad68anti	2.34479e-12	1.000000	2.39446e-12	1.000000
PAH8+H	4.75489e-13	1.000000	4.85561e-13	1.000000
rad61	4.69346e-13	1.000000	4.79287e-13	1.000000
rad40syn	2.01813e-13	1.000000	2.06087e-13	1.000000
rad40anti	7.19647e-14	1.000000	7.34890e-14	1.000000

rad73	4.99081e-14	1.00000	5.09652e-14	1.000000
rad2	3.24727e-14	1.00000	3.31605e-14	1.000000
rad71	1.21639e-14	1.00000	1.24216e-14	1.000000
rad1	4.86061e-15	1.00000	4.96355e-15	1.000000
rad23	4.08492e-15	1.00000	4.17144e-15	1.000000
rad45	1.32674e-15	1.00000	1.35485e-15	1.000000
rad10	4.96686e-16	1.00000	5.07206e-16	1.000000
rad4	1.99083e-16	1.00000	2.03300e-16	1.000000
rad3	1.94415e-16	1.00000	1.98533e-16	1.000000
rad36	1.40045e-16	1.00000	1.43011e-16	1.000000
rad6	6.47342e-17	1.00000	6.61053e-17	1.000000
rad72	4.51567e-18	1.00000	4.61132e-18	1.000000
rad28	3.64907e-18	1.00000	3.72636e-18	1.000000
rad26	1.53685e-18	1.00000	1.56940e-18	1.000000
rad9	7.77849e-19	1.00000	7.94324e-19	1.000000
rad11	1.85177e-19	1.00000	1.89099e-19	1.000000
rad13	5.35950e-20	1.00000	5.47302e-20	1.000000
rad21	3.99856e-20	1.00000	4.08326e-20	1.000000
rad33	3.80928e-20	1.00000	3.88996e-20	1.000000
rad7	3.02687e-20	1.00000	3.09098e-20	1.000000
rad31	1.78365e-20	1.00000	1.82143e-20	1.000000
rad20	1.48743e-20	1.00000	1.51893e-20	1.000000
rad25	8.89367e-21	1.00000	9.08205e-21	1.000000
rad24	3.96761e-21	1.00000	4.05165e-21	1.000000
rad14	3.92221e-21	1.00000	4.00528e-21	1.000000
rad27	3.69497e-21	1.00000	3.77323e-21	1.000000
rad12	4.79207e-22	1.00000	4.89358e-22	1.000000
rad15	3.08983e-22	1.00000	3.15527e-22	1.000000
rad22	2.20676e-24	1.00000	2.25350e-24	1.000000
rad18	2.13915e-24	1.00000	2.18446e-24	1.000000
rad47	9.03917e-27	1.00000	9.23064e-27	1.000000
rad5	2.51785e-27	1.00000	2.57118e-27	1.000000
rad8	9.25480e-31	1.00000	9.45081e-31	1.000000

0.100000000E-08 Pa, 800.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.75392e-13	(1.00)	2.64229e-13	(1.00)
Formation of rad11	1.06471e-13	(0.387)	1.00706e-13	(0.381)
Formation of rad6	9.97133e-14	(0.362)	9.43145e-14	(0.357)
H-abstraction	6.92082e-14	(0.251)	6.92082e-14	(0.262)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.420963	0.420963	0.438748	0.438748
Benzene+2-propynyl	0.251308	0.672270	0.261925	0.700673
C2H2+PhCH2	0.158756	0.831027	0.165464	0.866137
PhCCH+CH3	0.0631452	0.894172	0.0658130	0.931950
Phenyl+Allene	0.0405363	0.934708	0.000000	0.931950
PhCHCCH2+H	0.0360793	0.970788	0.0376036	0.969553
PhCH2CCH+H	0.00999819	0.980786	0.0104207	0.979974
Ph+MeAc	0.00840385	0.989190	0.00875888	0.988733
PhCCCH3+H	0.00623443	0.995424	0.00649783	0.995231
PAH7+H	0.00351019	0.998934	0.00365850	0.998889
rad39	0.000836596	0.999771	0.000871939	0.999761
rad19anti	9.01935e-05	0.999861	9.40042e-05	0.999855
PAH9+H	5.38600e-05	0.999915	5.61355e-05	0.999911
rad30	2.94556e-05	0.999944	3.07000e-05	0.999942
rad38	1.96291e-05	0.999964	2.04585e-05	0.999962
rad35	1.22732e-05	0.999976	1.27916e-05	0.999975
rad19syn	8.33347e-06	0.999985	8.68552e-06	0.999984
rad37	7.26188e-06	0.999992	7.56866e-06	0.999992
rad46	2.65265e-06	0.999995	2.76472e-06	0.999994
rad54	2.03471e-06	0.999997	2.12067e-06	0.999996
PAH3+H	7.96489e-07	0.999997	8.30142e-07	0.999997
PhcycC3H3_A+H	7.94325e-07	0.999998	8.27884e-07	0.999998
rad60syn	3.96788e-07	0.999999	4.13552e-07	0.999998
PAH10+CH3	2.53197e-07	0.999999	2.63894e-07	0.999999
rad60anti	2.15811e-07	0.999999	2.24928e-07	0.999999
rad50	1.82305e-07	0.999999	1.90007e-07	0.999999
rad70	1.50040e-07	0.999999	1.56379e-07	0.999999
PAH1+H	1.48682e-07	0.999999	1.54963e-07	0.999999
rad59	1.17661e-07	1.000000	1.22632e-07	1.000000
rad67	9.03380e-08	1.000000	9.41547e-08	1.000000
rad55	7.18814e-08	1.000000	7.49183e-08	1.000000
rad62	5.32905e-08	1.000000	5.55419e-08	1.000000
rad43	1.85215e-08	1.000000	1.93041e-08	1.000000
rad34	1.46559e-08	1.000000	1.52750e-08	1.000000
rad51	7.22365e-09	1.000000	7.52888e-09	1.000000

rad52	5.73950e-09	1.000000	5.98199e-09	1.000000
rad53	1.38657e-09	1.000000	1.44515e-09	1.000000
rad58	6.48417e-10	1.000000	6.75812e-10	1.000000
rad64	5.75074e-10	1.000000	5.99371e-10	1.000000
rad42	5.07610e-10	1.000000	5.29056e-10	1.000000
rad56	3.39878e-10	1.000000	3.54238e-10	1.000000
rad65	2.29598e-10	1.000000	2.39299e-10	1.000000
rad41	7.94160e-11	1.000000	8.27714e-11	1.000000
rad68syn	3.95119e-11	1.000000	4.11813e-11	1.000000
rad68anti	2.68637e-11	1.000000	2.79986e-11	1.000000
PAH8+H	9.75569e-12	1.000000	1.01678e-11	1.000000
rad61	4.46179e-12	1.000000	4.65031e-12	1.000000
rad40syn	3.27953e-12	1.000000	3.41808e-12	1.000000
rad40anti	1.27570e-12	1.000000	1.32959e-12	1.000000
rad73	9.82022e-13	1.000000	1.02352e-12	1.000000
rad71	3.27492e-13	1.000000	3.41329e-13	1.000000
rad2	6.39976e-15	1.000000	6.67014e-15	1.000000
rad23	2.50480e-15	1.000000	2.61063e-15	1.000000
rad1	1.14096e-15	1.000000	1.18916e-15	1.000000
rad45	1.09673e-15	1.000000	1.14306e-15	1.000000
rad72	3.06354e-16	1.000000	3.19297e-16	1.000000
rad10	1.03200e-16	1.000000	1.07560e-16	1.000000
rad36	9.87121e-17	1.000000	1.02882e-16	1.000000
rad3	8.91880e-17	1.000000	9.29561e-17	1.000000
rad4	7.74634e-17	1.000000	8.07358e-17	1.000000
rad6	3.50792e-17	1.000000	3.65612e-17	1.000000
rad9	1.94055e-17	1.000000	2.02254e-17	1.000000
rad28	1.31238e-18	1.000000	1.36783e-18	1.000000
rad11	6.33503e-19	1.000000	6.60268e-19	1.000000
rad21	5.89264e-19	1.000000	6.14159e-19	1.000000
rad13	5.65710e-19	1.000000	5.89610e-19	1.000000
rad26	5.57308e-19	1.000000	5.80853e-19	1.000000
rad33	2.86164e-19	1.000000	2.98255e-19	1.000000
rad20	2.26268e-19	1.000000	2.35827e-19	1.000000
rad7	8.07300e-20	1.000000	8.41405e-20	1.000000
rad24	5.58298e-20	1.000000	5.81886e-20	1.000000
rad25	1.92043e-20	1.000000	2.00156e-20	1.000000
rad12	1.15817e-20	1.000000	1.20710e-20	1.000000
rad31	8.40534e-21	1.000000	8.76043e-21	1.000000
rad27	7.05987e-21	1.000000	7.35814e-21	1.000000
rad14	5.74858e-21	1.000000	5.99145e-21	1.000000
rad15	4.41687e-21	1.000000	4.60348e-21	1.000000
rad18	2.25390e-23	1.000000	2.34913e-23	1.000000
rad22	1.54085e-24	1.000000	1.60595e-24	1.000000
rad47	5.02496e-26	1.000000	5.23725e-26	1.000000
rad8	3.33307e-27	1.000000	3.47390e-27	1.000000
rad5	3.10036e-27	1.000000	3.23135e-27	1.000000

0.100000000E-08 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.88072e-13 (1.00)	4.55158e-13 (1.00)
Formation of rad11	1.74945e-13 (0.358)	1.58562e-13 (0.348)
Formation of rad6	1.76509e-13 (0.362)	1.59978e-13 (0.351)
H-abstraction	1.36618e-13 (0.280)	1.36618e-13 (0.300)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.341014	0.341014	0.365674	0.365674
Benzene+2-propynyl	0.279914	0.620928	0.300155	0.665829
C2H2+PhCH2	0.164625	0.785553	0.176529	0.842358
Phenyl+Allene	0.0674364	0.852989	0.000000	0.842358
PhCCH+CH3	0.0639259	0.916915	0.0685486	0.910906
PhCHCCH2+H	0.0451268	0.962042	0.0483901	0.959297
PhCH2CCH+H	0.0182967	0.980338	0.0196198	0.978916
Ph+MeAc	0.00849313	0.988832	0.00910729	0.988024
PhCCCH3+H	0.00485364	0.993685	0.00520463	0.993228
PAH7+H	0.00482415	0.998509	0.00517299	0.998401
rad39	0.00111872	0.999628	0.00119961	0.999601
rad19anti	0.000152570	0.999781	0.000163603	0.999764
PAH9+H	8.58055e-05	0.999866	9.20100e-05	0.999856
rad30	3.45816e-05	0.999901	3.70824e-05	0.999894
rad38	3.22626e-05	0.999933	3.45956e-05	0.999928
rad19syn	2.05726e-05	0.999954	2.20602e-05	0.999950
rad35	1.85019e-05	0.999972	1.98398e-05	0.999970
rad37	8.30353e-06	0.999981	8.90399e-06	0.999979
rad54	5.61022e-06	0.999986	6.01591e-06	0.999985
rad46	5.06238e-06	0.999991	5.42846e-06	0.999990
PhcycC3H3_A+H	2.75303e-06	0.999994	2.95211e-06	0.999993

PAH3+H	1.70031e-06	0.999996	1.82327e-06	0.999995
rad60syn	6.35566e-07	0.999996	6.81526e-07	0.999996
PAH10+CH3	5.91896e-07	0.999997	6.34698e-07	0.999996
PAH1+H	5.27743e-07	0.999998	5.65906e-07	0.999997
rad50	5.26055e-07	0.999998	5.64096e-07	0.999998
rad70	4.68169e-07	0.999999	5.02024e-07	0.999998
rad60anti	3.53464e-07	0.999999	3.79023e-07	0.999999
rad67	2.86638e-07	0.999999	3.07366e-07	0.999999
rad59	2.38374e-07	0.999999	2.55613e-07	0.999999
rad55	2.28529e-07	1.000000	2.45055e-07	0.999999
rad62	1.23575e-07	1.000000	1.32511e-07	0.999999
rad34	5.38118e-08	1.000000	5.77031e-08	0.999999
rad43	3.25336e-08	1.000000	3.48862e-08	1.000000
rad51	2.94628e-08	1.000000	3.15934e-08	1.000000
rad52	1.98861e-08	1.000000	2.13241e-08	1.000000
rad53	7.16536e-09	1.000000	7.68353e-09	1.000000
rad64	2.79837e-09	1.000000	3.00073e-09	1.000000
rad56	2.33179e-09	1.000000	2.50041e-09	1.000000
rad58	2.16896e-09	1.000000	2.32580e-09	1.000000
rad42	1.71810e-09	1.000000	1.84235e-09	1.000000
rad65	9.39252e-10	1.000000	1.00717e-09	1.000000
rad68syn	2.64056e-10	1.000000	2.83151e-10	1.000000
rad41	2.24666e-10	1.000000	2.40913e-10	1.000000
rad68anti	1.78166e-10	1.000000	1.91050e-10	1.000000
PAH8+H	1.02532e-10	1.000000	1.09946e-10	1.000000
rad40syn	2.86480e-11	1.000000	3.07196e-11	1.000000
rad61	2.66398e-11	1.000000	2.85662e-11	1.000000
rad40anti	1.19773e-11	1.000000	1.28434e-11	1.000000
rad73	1.03641e-11	1.000000	1.11135e-11	1.000000
rad71	4.43740e-12	1.000000	4.75828e-12	1.000000
rad72	8.45914e-15	1.000000	9.07083e-15	1.000000
rad2	1.35968e-15	1.000000	1.45800e-15	1.000000
rad23	1.12115e-15	1.000000	1.20222e-15	1.000000
rad45	5.72966e-16	1.000000	6.14399e-16	1.000000
rad1	2.69144e-16	1.000000	2.88608e-16	1.000000
rad9	9.57823e-17	1.000000	1.02709e-16	1.000000
rad36	5.36582e-17	1.000000	5.75384e-17	1.000000
rad3	3.30368e-17	1.000000	3.54257e-17	1.000000
rad6	3.18948e-17	1.000000	3.42012e-17	1.000000
rad4	2.68858e-17	1.000000	2.88300e-17	1.000000
rad10	1.97418e-17	1.000000	2.11694e-17	1.000000
rad13	4.90670e-18	1.000000	5.26151e-18	1.000000
rad21	3.80389e-18	1.000000	4.07897e-18	1.000000
rad11	2.95791e-18	1.000000	3.17180e-18	1.000000
rad20	1.64991e-18	1.000000	1.76922e-18	1.000000
rad33	1.26647e-18	1.000000	1.35806e-18	1.000000
rad28	5.99481e-19	1.000000	6.42831e-19	1.000000
rad7	3.76378e-19	1.000000	4.03595e-19	1.000000
rad26	2.56533e-19	1.000000	2.75084e-19	1.000000
rad24	1.88184e-19	1.000000	2.01792e-19	1.000000
rad25	5.51827e-20	1.000000	5.91731e-20	1.000000
rad12	5.35710e-20	1.000000	5.74448e-20	1.000000
rad15	1.51105e-20	1.000000	1.62032e-20	1.000000
rad27	1.32691e-20	1.000000	1.42286e-20	1.000000
rad14	1.05204e-20	1.000000	1.12812e-20	1.000000
rad31	4.19944e-21	1.000000	4.50311e-21	1.000000
rad18	3.26809e-22	1.000000	3.50441e-22	1.000000
rad8	1.12161e-24	1.000000	1.20272e-24	1.000000
rad22	1.04377e-24	1.000000	1.11924e-24	1.000000
rad47	2.05588e-25	1.000000	2.20455e-25	1.000000
rad5	5.07417e-27	1.000000	5.44110e-27	1.000000

0.100000000E-08 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.98668e-13 (1.00)	7.19594e-13 (1.00)
Formation of rad11	2.67704e-13 (0.335)	2.29546e-13 (0.319)
Formation of rad6	2.87049e-13 (0.359)	2.46133e-13 (0.342)
H-abstraction	2.43915e-13 (0.305)	2.43915e-13 (0.339)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.305402	0.305402	0.338962	0.338962
Indene+H	0.272124	0.577526	0.302027	0.640989
C2H2+PhCH2	0.159453	0.736979	0.176975	0.817964
Phenyl+Allene	0.0990073	0.835987	0.000000	0.817964
PhCCH+CH3	0.0616205	0.897607	0.0683917	0.886356
PhCHCCH2+H	0.0537596	0.951367	0.0596670	0.946023
PhCH2CCH+H	0.0288969	0.980264	0.0320723	0.978095

Ph+MeAc	0.00817632	0.988440	0.00907480	0.987170
PAH7+H	0.00601184	0.994452	0.00667246	0.993842
PhCCCH3+H	0.00364277	0.998095	0.00404307	0.997885
rad39	0.00134896	0.999444	0.00149719	0.999382
rad19anti	0.000230025	0.999674	0.000255302	0.999638
PAH9+H	0.000123695	0.999797	0.000137287	0.999775
rad38	4.77792e-05	0.999845	5.30296e-05	0.999828
rad19syn	4.20371e-05	0.999887	4.66565e-05	0.999875
rad30	3.74826e-05	0.999925	4.16015e-05	0.999916
rad35	2.54628e-05	0.999950	2.82608e-05	0.999945
rad54	1.25292e-05	0.999963	1.39061e-05	0.999959
rad37	9.28205e-06	0.999972	1.03021e-05	0.999969
rad46	8.48861e-06	0.999980	9.42145e-06	0.999978
PhcycC3H3_A+H	7.44283e-06	0.999988	8.26073e-06	0.999987
PAH3+H	3.05843e-06	0.999991	3.39451e-06	0.999990
PAH1+H	1.42911e-06	0.999992	1.58616e-06	0.999991
rad50	1.24669e-06	0.999994	1.38369e-06	0.999993
PAH10+CH3	1.21323e-06	0.999995	1.34654e-06	0.999994
rad70	1.14131e-06	0.999996	1.26673e-06	0.999995
rad60syn	8.97094e-07	0.999997	9.95669e-07	0.999996
rad67	7.32850e-07	0.999998	8.13375e-07	0.999997
rad55	5.71763e-07	0.999998	6.34592e-07	0.999998
rad60anti	5.08253e-07	0.999999	5.64103e-07	0.999999
rad59	4.08645e-07	0.999999	4.53550e-07	0.999999
rad62	2.36337e-07	0.999999	2.62307e-07	0.999999
rad34	1.49947e-07	0.999999	1.66424e-07	0.999999
rad51	9.25830e-08	0.999999	1.02757e-07	0.999999
rad52	5.46149e-08	1.000000	6.06164e-08	1.000000
rad43	4.82842e-08	1.000000	5.35901e-08	1.000000
rad53	2.66802e-08	1.000000	2.96121e-08	1.000000
rad56	1.08965e-08	1.000000	1.20939e-08	1.000000
rad64	9.68714e-09	1.000000	1.07517e-08	1.000000
rad58	5.61421e-09	1.000000	6.23115e-09	1.000000
rad42	4.47913e-09	1.000000	4.97133e-09	1.000000
rad65	2.93939e-09	1.000000	3.26239e-09	1.000000
rad68syn	1.19347e-09	1.000000	1.32462e-09	1.000000
rad68anti	8.00253e-10	1.000000	8.88191e-10	1.000000
PAH8+H	6.70053e-10	1.000000	7.43681e-10	1.000000
rad41	4.94029e-10	1.000000	5.48317e-10	1.000000
rad40syn	1.60977e-10	1.000000	1.78667e-10	1.000000
rad61	1.14008e-10	1.000000	1.26536e-10	1.000000
rad40anti	7.14860e-11	1.000000	7.93411e-11	1.000000
rad73	6.98974e-11	1.000000	7.75781e-11	1.000000
rad71	3.67488e-11	1.000000	4.07870e-11	1.000000
rad72	1.23083e-13	1.000000	1.36608e-13	1.000000
rad23	5.30476e-16	1.000000	5.88769e-16	1.000000
rad2	3.25948e-16	1.000000	3.61766e-16	1.000000
rad45	3.08875e-16	1.000000	3.42817e-16	1.000000
rad9	1.42488e-16	1.000000	1.58146e-16	1.000000
rad1	7.09636e-17	1.000000	7.87621e-17	1.000000
rad6	4.68486e-17	1.000000	5.19967e-17	1.000000
rad36	2.90942e-17	1.000000	3.22913e-17	1.000000
rad13	2.41230e-17	1.000000	2.67738e-17	1.000000
rad11	1.49785e-17	1.000000	1.66244e-17	1.000000
rad3	1.18090e-17	1.000000	1.31067e-17	1.000000
rad4	9.61143e-18	1.000000	1.06676e-17	1.000000
rad21	9.56156e-18	1.000000	1.06122e-17	1.000000
rad10	4.88255e-18	1.000000	5.41907e-18	1.000000
rad20	4.65001e-18	1.000000	5.16098e-18	1.000000
rad33	2.70073e-18	1.000000	2.99751e-18	1.000000
rad7	2.23749e-18	1.000000	2.48336e-18	1.000000
rad28	3.77306e-19	1.000000	4.18767e-19	1.000000
rad24	2.48801e-19	1.000000	2.76141e-19	1.000000
rad26	1.59243e-19	1.000000	1.76741e-19	1.000000
rad25	1.49317e-19	1.000000	1.65725e-19	1.000000
rad12	9.30060e-20	1.000000	1.03226e-19	1.000000
rad14	1.89393e-20	1.000000	2.10206e-20	1.000000
rad15	1.87021e-20	1.000000	2.07573e-20	1.000000
rad27	1.85942e-20	1.000000	2.06374e-20	1.000000
rad18	4.54218e-21	1.000000	5.04130e-21	1.000000
rad31	2.32683e-21	1.000000	2.58252e-21	1.000000
rad8	3.75825e-23	1.000000	4.17124e-23	1.000000
rad22	2.48870e-24	1.000000	2.76217e-24	1.000000
rad47	6.62542e-25	1.000000	7.35346e-25	1.000000
rad5	1.19689e-26	1.000000	1.32842e-26	1.000000

0.100000000E-08 Pa, 1100.00000 K

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Rate constant | True (fraction) | Effective (fraction)

Total	1.22919e-12	(1.00)	1.06688e-12	(1.00)
Formation of rad11	3.87976e-13	(0.316)	3.11712e-13	(0.292)
Formation of rad6	4.37724e-13	(0.356)	3.51681e-13	(0.330)
H-abstraction	4.03491e-13	(0.328)	4.03491e-13	(0.378)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.328257	0.328257	0.378196	0.378196
Indene+H	0.214714	0.542971	0.247379	0.625574
C2H2+PhCH2	0.146502	0.689473	0.168789	0.794364
Phenyl+Allene	0.132044	0.821517	0.000000	0.794364
PhCHCCH2+H	0.0609574	0.882474	0.0702309	0.864595
PhCCH+CH3	0.0572446	0.939719	0.0659535	0.930548
PhCH2CCH+H	0.0407440	0.980463	0.0469425	0.977491
Ph+MeAc	0.00763489	0.988098	0.00879642	0.986287
PAH7+H	0.00694716	0.995045	0.00800405	0.994291
PhCCCH3+H	0.00267733	0.997722	0.00308464	0.997376
rad39	0.00150224	0.999224	0.00173078	0.999107
rad19anti	0.000315220	0.999539	0.000363175	0.999470
PAH9+H	0.000164386	0.999704	0.000189394	0.999659
rad19syn	7.45655e-05	0.999778	8.59091e-05	0.999745
rad38	6.50359e-05	0.999843	7.49299e-05	0.999820
rad30	3.82332e-05	0.999882	4.40497e-05	0.999864
rad35	3.25605e-05	0.999914	3.75140e-05	0.999902
rad54	2.39077e-05	0.999938	2.75448e-05	0.999929
PhcycC3H3_A+H	1.67306e-05	0.999955	1.92759e-05	0.999948
rad46	1.28371e-05	0.999968	1.47901e-05	0.999963
rad37	1.03715e-05	0.999978	1.19494e-05	0.999975
PAH3+H	4.83975e-06	0.999983	5.57602e-06	0.999981
PAH1+H	3.16887e-06	0.999986	3.65096e-06	0.999984
rad50	2.53500e-06	0.999989	2.92065e-06	0.999987
rad70	2.31279e-06	0.999991	2.66464e-06	0.999990
PAH10+CH3	2.25114e-06	0.999993	2.59361e-06	0.999993
rad67	1.57911e-06	0.999995	1.81935e-06	0.999994
rad55	1.19782e-06	0.999996	1.38006e-06	0.999996
rad60syn	1.15117e-06	0.999997	1.32630e-06	0.999997
rad60anti	6.62627e-07	0.999998	7.63433e-07	0.999998
rad59	6.18406e-07	0.999998	7.12482e-07	0.999999
rad62	3.93252e-07	0.999999	4.53078e-07	0.999999
rad34	3.40145e-07	0.999999	3.91892e-07	0.999999
rad51	2.38369e-07	0.999999	2.74633e-07	1.000000
rad52	1.25451e-07	1.000000	1.44535e-07	1.000000
rad53	7.80404e-08	1.000000	8.99129e-08	1.000000
rad43	6.37336e-08	1.000000	7.34295e-08	1.000000
rad56	3.84098e-08	1.000000	4.42533e-08	1.000000
rad64	2.61428e-08	1.000000	3.01199e-08	1.000000
rad58	1.20347e-08	1.000000	1.38656e-08	1.000000
rad42	9.67464e-09	1.000000	1.11465e-08	1.000000
rad65	7.50471e-09	1.000000	8.64638e-09	1.000000
rad68syn	4.04354e-09	1.000000	4.65870e-09	1.000000
PAH8+H	3.08736e-09	1.000000	3.55704e-09	1.000000
rad68anti	2.69715e-09	1.000000	3.10748e-09	1.000000
rad41	9.10252e-10	1.000000	1.04874e-09	1.000000
rad40syn	6.53835e-10	1.000000	7.53304e-10	1.000000
rad61	3.79380e-10	1.000000	4.37096e-10	1.000000
rad73	3.37894e-10	1.000000	3.89299e-10	1.000000
rad40anti	3.05537e-10	1.000000	3.52019e-10	1.000000
rad71	2.11150e-10	1.000000	2.43273e-10	1.000000
rad72	1.11745e-12	1.000000	1.28745e-12	1.000000
rad23	2.66114e-16	1.000000	3.06598e-16	1.000000
rad45	1.64814e-16	1.000000	1.89888e-16	1.000000
rad9	1.25116e-16	1.000000	1.44150e-16	1.000000
rad2	8.67562e-17	1.000000	9.99544e-17	1.000000
rad6	7.25207e-17	1.000000	8.35537e-17	1.000000
rad11	6.03137e-17	1.000000	6.94891e-17	1.000000
rad13	5.55336e-17	1.000000	6.39818e-17	1.000000
rad1	2.02569e-17	1.000000	2.33387e-17	1.000000
rad36	1.57213e-17	1.000000	1.81130e-17	1.000000
rad7	1.24063e-17	1.000000	1.42937e-17	1.000000
rad21	1.12703e-17	1.000000	1.29848e-17	1.000000
rad20	5.72530e-18	1.000000	6.59629e-18	1.000000
rad3	4.48447e-18	1.000000	5.16670e-18	1.000000
rad4	3.67936e-18	1.000000	4.23911e-18	1.000000
rad33	2.98576e-18	1.000000	3.43998e-18	1.000000
rad10	2.39142e-18	1.000000	2.75524e-18	1.000000
rad28	3.34183e-19	1.000000	3.85023e-19	1.000000
rad25	2.72797e-19	1.000000	3.14298e-19	1.000000
rad24	2.16988e-19	1.000000	2.49998e-19	1.000000
rad26	1.30911e-19	1.000000	1.50826e-19	1.000000
rad12	1.06574e-19	1.000000	1.22787e-19	1.000000

rad18	3.95810e-20	1.000000	4.56025e-20	1.00000
rad14	2.59084e-20	1.000000	2.98500e-20	1.00000
rad27	1.66794e-20	1.000000	1.92169e-20	1.00000
rad15	1.52341e-20	1.000000	1.75516e-20	1.00000
rad31	1.37107e-21	1.000000	1.57966e-21	1.00000
rad8	2.31129e-22	1.000000	2.66290e-22	1.00000
rad22	2.05503e-23	1.000000	2.36766e-23	1.00000
rad47	1.74352e-24	1.000000	2.00877e-24	1.00000
rad5	3.96437e-26	1.000000	4.56748e-26	1.00000

0.100000000E-08 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.80237e-12 (1.00)	1.50733e-12 (1.00)
Formation of rad11	5.38789e-13 (0.299)	4.03336e-13 (0.268)
Formation of rad6	6.34764e-13 (0.352)	4.75183e-13 (0.315)
H-abstraction	6.28816e-13 (0.349)	6.28816e-13 (0.417)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.348883	0.348883	0.417171	0.417171
Indene+H	0.168224	0.517107	0.201151	0.618322
Phenyl+Allene	0.163693	0.680800	0.000000	0.618322
C2H2+PhCH2	0.129445	0.810245	0.154782	0.773104
PhCHCCH2+H	0.0661470	0.876392	0.0790946	0.852199
PhCH2CCH+H	0.0526489	0.929041	0.0629537	0.915152
PhCCH+CH3	0.0518208	0.980862	0.0619641	0.977116
PAH7+H	0.00758545	0.988447	0.00907010	0.986186
Ph+MeAc	0.00700420	0.995451	0.00837514	0.994562
PhCCCH3+H	0.00195097	0.997402	0.00233284	0.996894
rad39	0.00157581	0.998978	0.00188425	0.998779
rad19anti	0.000399579	0.999378	0.000477791	0.999257
PAH9+H	0.000204702	0.999582	0.000244769	0.999501
rad19syn	0.000118863	0.999701	0.000142129	0.999643
rad38	8.27680e-05	0.999784	9.89685e-05	0.999742
rad54	4.05005e-05	0.999824	4.84277e-05	0.999791
rad35	3.92969e-05	0.999864	4.69886e-05	0.999838
rad30	3.73116e-05	0.999901	4.46148e-05	0.999882
PhcycC3H3_A+H	3.27086e-05	0.999934	3.91108e-05	0.999922
rad46	1.78869e-05	0.999952	2.13880e-05	0.999943
rad37	1.16239e-05	0.999963	1.38991e-05	0.999957
PAH3+H	6.95966e-06	0.999970	8.32193e-06	0.999965
PAH1+H	6.04571e-06	0.999976	7.22906e-06	0.999972
rad50	4.57121e-06	0.999981	5.46594e-06	0.999978
rad70	4.07150e-06	0.999985	4.86843e-06	0.999983
PAH10+CH3	3.83957e-06	0.999989	4.59109e-06	0.999987
rad67	2.96796e-06	0.999992	3.54889e-06	0.999991
rad55	2.19501e-06	0.999994	2.62464e-06	0.999993
rad60syn	1.37645e-06	0.999995	1.64587e-06	0.999995
rad59	8.52866e-07	0.999996	1.01981e-06	0.999996
rad60anti	8.03342e-07	0.999997	9.60578e-07	0.999997
rad34	6.59901e-07	0.999998	7.89063e-07	0.999998
rad62	5.91358e-07	0.999998	7.07106e-07	0.999999
rad51	5.25705e-07	0.999999	6.28605e-07	0.999999
rad52	2.50703e-07	0.999999	2.99775e-07	0.999999
rad53	1.90238e-07	0.999999	2.27474e-07	1.000000
rad56	1.09448e-07	0.999999	1.30871e-07	1.000000
rad43	7.76164e-08	0.999999	9.28086e-08	1.000000
rad64	5.85550e-08	0.999999	7.00159e-08	1.000000
rad58	2.24147e-08	0.999999	2.68020e-08	1.000000
rad42	1.82035e-08	0.999999	2.17665e-08	1.000000
rad65	1.63703e-08	0.999999	1.95744e-08	1.000000
rad68syn	1.10175e-08	0.999999	1.31740e-08	1.000000
PAH8+H	1.09227e-08	0.999999	1.30606e-08	1.000000
rad68anti	7.31621e-09	0.999999	8.74827e-09	1.000000
rad40syn	2.07794e-09	0.999999	2.48466e-09	1.000000
rad41	1.48024e-09	0.999999	1.76997e-09	1.000000
rad73	1.26651e-09	0.999999	1.51441e-09	1.000000
rad61	1.03672e-09	0.999999	1.23964e-09	1.000000
rad40anti	1.01429e-09	0.999999	1.21282e-09	1.000000
rad71	9.17535e-10	0.999999	1.09712e-09	1.000000
rad72	7.08917e-12	0.999999	8.47678e-12	1.000000
rad11	1.50131e-16	0.999999	1.79517e-16	1.000000
rad23	1.35687e-16	0.999999	1.62246e-16	1.000000
rad6	1.08591e-16	0.999999	1.29846e-16	1.000000
rad9	9.26820e-17	0.999999	1.10823e-16	1.000000
rad45	8.89712e-17	0.999999	1.06386e-16	1.000000
rad13	6.46648e-17	0.999999	7.73216e-17	1.000000
rad7	4.83389e-17	0.999999	5.78005e-17	1.000000

rad2	2.54787e-17	0.999999	3.04658e-17	1.00000
rad21	8.79041e-18	0.999999	1.05110e-17	1.00000
rad36	8.57918e-18	0.999999	1.02584e-17	1.00000
rad1	6.18191e-18	0.999999	7.39191e-18	1.00000
rad20	4.28302e-18	0.999999	5.12134e-18	1.00000
rad10	2.44206e-18	0.999999	2.92005e-18	1.00000
rad33	2.25859e-18	0.999999	2.70068e-18	1.00000
rad3	1.81100e-18	0.999999	2.16548e-18	1.00000
rad4	1.49731e-18	0.999999	1.79038e-18	1.00000
rad28	4.11627e-19	0.999999	4.92196e-19	1.00000
rad25	3.12053e-19	0.999999	3.73132e-19	1.00000
rad24	1.65803e-19	0.999999	1.98256e-19	1.00000
rad18	1.63210e-19	0.999999	1.95156e-19	1.00000
rad26	1.33727e-19	0.999999	1.59902e-19	1.00000
rad12	1.03518e-19	0.999999	1.23781e-19	1.00000
rad14	2.44012e-20	0.999999	2.91773e-20	1.00000
rad15	1.68122e-20	0.999999	2.01029e-20	1.00000
rad27	1.00941e-20	0.999999	1.20699e-20	1.00000
rad31	8.42038e-22	0.999999	1.00685e-21	1.00000
rad8	5.36818e-22	0.999999	6.41893e-22	1.00000
rad22	2.43373e-22	0.999999	2.91010e-22	1.00000
rad47	3.89980e-24	0.999999	4.66312e-24	1.00000
rad5	1.66315e-25	0.999999	1.98868e-25	1.00000

0.100000000E-08 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.54148e-12 (1.00)	2.05338e-12 (1.00)
Formation of rad11	7.22991e-13 (0.284)	5.03422e-13 (0.245)
Formation of rad6	8.84215e-13 (0.348)	6.15682e-13 (0.300)
H-abstraction	9.34273e-13 (0.368)	9.34273e-13 (0.455)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.367610	0.367610	0.454993	0.454993
Phenyl+Allene	0.192054	0.559664	0.000000	0.454993
Indene+H	0.131421	0.691086	0.162661	0.617654
C2H2+PhCH2	0.111295	0.802381	0.137750	0.755405
PhCHCCH2+H	0.0692296	0.871610	0.0856859	0.841091
PhCH2CCH+H	0.0636260	0.935236	0.0787507	0.919842
PhCCH+CH3	0.0461559	0.981392	0.0571276	0.976969
PAH7+H	0.00794566	0.989338	0.00983443	0.986804
Ph+MeAc	0.00637082	0.995709	0.00788521	0.994689
rad39	0.00158196	0.997291	0.00195800	0.996647
PhCCCH3+H	0.00142376	0.998714	0.00176219	0.998409
rad19anti	0.000475489	0.999190	0.000588514	0.998997
PAH9+H	0.000242131	0.999432	0.000299688	0.999297
rad19syn	0.000174660	0.999607	0.000216178	0.999513
rad38	9.98860e-05	0.999707	0.000123629	0.999637
rad54	6.26274e-05	0.999769	7.75141e-05	0.999714
PhcycC3H3_A+H	5.74351e-05	0.999827	7.10879e-05	0.999786
rad35	4.53516e-05	0.999872	5.61319e-05	0.999842
rad30	3.53185e-05	0.999907	4.37139e-05	0.999885
rad46	2.33611e-05	0.999931	2.89142e-05	0.999914
rad37	1.29873e-05	0.999944	1.60744e-05	0.999930
PAH1+H	1.02825e-05	0.999954	1.27267e-05	0.999943
PAH3+H	9.32004e-06	0.999963	1.15354e-05	0.999955
rad50	7.49585e-06	0.999971	9.27759e-06	0.999964
rad70	6.43021e-06	0.999977	7.95868e-06	0.999972
PAH10+CH3	6.07786e-06	0.999983	7.52262e-06	0.999979
rad67	4.99567e-06	0.999988	6.18315e-06	0.999986
rad55	3.63003e-06	0.999992	4.49291e-06	0.999990
rad60syn	1.56340e-06	0.999993	1.93503e-06	0.999992
rad34	1.13462e-06	0.999995	1.40432e-06	0.999993
rad59	1.09806e-06	0.999996	1.35907e-06	0.999995
rad51	1.02620e-06	0.999997	1.27014e-06	0.999996
rad60anti	9.23688e-07	0.999998	1.14325e-06	0.999997
rad62	8.25901e-07	0.999998	1.02222e-06	0.999998
rad52	4.48900e-07	0.999999	5.55607e-07	0.999999
rad53	4.02868e-07	0.999999	4.98632e-07	0.999999
rad56	2.64598e-07	1.000000	3.27496e-07	1.000000
rad64	1.13755e-07	1.000000	1.40795e-07	1.000000
rad43	8.95932e-08	1.000000	1.10890e-07	1.000000
rad58	3.75497e-08	1.000000	4.64755e-08	1.000000
rad65	3.15601e-08	1.000000	3.90621e-08	1.000000
PAH8+H	3.15023e-08	1.000000	3.89905e-08	1.000000
rad42	3.09037e-08	1.000000	3.82497e-08	1.000000
rad68syn	2.53721e-08	1.000000	3.14033e-08	1.000000
rad68anti	1.67834e-08	1.000000	2.07729e-08	1.000000

rad40syn	5.46373e-09	1.000000	6.76250e-09	1.00000
rad73	3.88972e-09	1.000000	4.81434e-09	1.00000
rad71	3.20241e-09	1.000000	3.96364e-09	1.00000
rad40anti	2.76933e-09	1.000000	3.42762e-09	1.00000
rad61	2.41929e-09	1.000000	2.99437e-09	1.00000
rad41	2.20456e-09	1.000000	2.72860e-09	1.00000
rad72	3.39621e-11	1.000000	4.20352e-11	1.00000
rad11	2.12952e-16	1.000000	2.63571e-16	1.00000
rad6	1.81854e-16	1.000000	2.25082e-16	1.00000
rad7	1.09741e-16	1.000000	1.35827e-16	1.00000
rad23	7.15581e-17	1.000000	8.85679e-17	1.00000
rad9	6.37221e-17	1.000000	7.88690e-17	1.00000
rad13	4.91946e-17	1.000000	6.08887e-17	1.00000
rad45	4.85811e-17	1.000000	6.01289e-17	1.00000
rad2	7.99803e-18	1.000000	9.89923e-18	1.00000
rad21	5.91330e-18	1.000000	7.31895e-18	1.00000
rad36	4.74198e-18	1.000000	5.86918e-18	1.00000
rad20	2.63323e-18	1.000000	3.25917e-18	1.00000
rad10	2.37177e-18	1.000000	2.93555e-18	1.00000
rad1	1.99580e-18	1.000000	2.47022e-18	1.00000
rad33	1.50408e-18	1.000000	1.86161e-18	1.00000
rad3	7.72749e-19	1.000000	9.56438e-19	1.00000
rad28	6.65597e-19	1.000000	8.23816e-19	1.00000
rad4	6.43356e-19	1.000000	7.96282e-19	1.00000
rad18	3.07354e-19	1.000000	3.80413e-19	1.00000
rad25	2.61840e-19	1.000000	3.24081e-19	1.00000
rad26	1.53806e-19	1.000000	1.90367e-19	1.00000
rad24	1.21061e-19	1.000000	1.49838e-19	1.00000
rad12	9.25054e-20	1.000000	1.14494e-19	1.00000
rad15	6.00765e-20	1.000000	7.43569e-20	1.00000
rad14	1.73625e-20	1.000000	2.14896e-20	1.00000
rad27	4.96123e-21	1.000000	6.14053e-21	1.00000
rad22	2.78930e-21	1.000000	3.45233e-21	1.00000
rad8	7.86598e-22	1.000000	9.73573e-22	1.00000
rad31	5.35121e-22	1.000000	6.62325e-22	1.00000
rad47	7.66887e-24	1.000000	9.49183e-24	1.00000
rad5	7.50672e-25	1.000000	9.29111e-25	1.00000

0.100000000E-08 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.47024e-12 (1.00)	2.71984e-12 (1.00)
Formation of rad11	9.43269e-13 (0.272)	6.11768e-13 (0.225)
Formation of rad6	1.19194e-12 (0.343)	7.73043e-13 (0.284)
H-abstraction	1.33503e-12 (0.385)	1.33503e-12 (0.491)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.384709	0.384709	0.490849	0.490849
Phenyl+Allene	0.216237	0.600946	0.00000	0.490849
Indene+H	0.102753	0.703699	0.131102	0.621951
C2H2+PhCH2	0.0940337	0.797733	0.119977	0.741928
PhCH2CCH+H	0.0730480	0.870781	0.0932017	0.835129
PhCHCCH2+H	0.0704361	0.941217	0.0898693	0.924998
PhCCH+CH3	0.0407709	0.981988	0.0520195	0.977018
PAH7+H	0.00808062	0.990068	0.0103100	0.987328
Ph+MeAc	0.00578254	0.995851	0.00737791	0.994706
rad39	0.00153900	0.997390	0.00196361	0.996669
PhCCCH3+H	0.00104907	0.998439	0.00133851	0.998008
rad19anti	0.000537563	0.998977	0.000685873	0.998694
PAH9+H	0.000275092	0.999252	0.000350989	0.999045
rad19syn	0.000241019	0.999493	0.000307515	0.999352
rad38	0.000115616	0.999608	0.000147513	0.999500
PhcycC3H3_A+H	9.27188e-05	0.999701	0.000118299	0.999618
rad54	9.02066e-05	0.999791	0.000115094	0.999733
rad35	5.05796e-05	0.999842	6.45344e-05	0.999798
rad30	3.27889e-05	0.999875	4.18352e-05	0.999840
rad46	2.89889e-05	0.999904	3.69868e-05	0.999877
PAH1+H	1.59963e-05	0.999920	2.04096e-05	0.999897
rad37	1.43563e-05	0.999934	1.83172e-05	0.999915
PAH3+H	1.18378e-05	0.999946	1.51038e-05	0.999930
rad50	1.13924e-05	0.999957	1.45355e-05	0.999945
rad70	9.33021e-06	0.999967	1.19044e-05	0.999957
PAH10+CH3	9.00294e-06	0.999976	1.14868e-05	0.999968
rad67	7.68554e-06	0.999983	9.80595e-06	0.999978
rad55	5.54137e-06	0.999989	7.07023e-06	0.999985
rad51	1.81654e-06	0.999991	2.31772e-06	0.999988
rad34	1.77488e-06	0.999992	2.26456e-06	0.999990
rad60syn	1.71203e-06	0.999994	2.18438e-06	0.999992

rad59	1.34390e-06	0.999995	1.71468e-06	0.999994
rad62	1.09238e-06	0.999997	1.39377e-06	0.999995
rad60anti	1.02264e-06	0.999998	1.30479e-06	0.999996
rad53	7.63459e-07	0.999998	9.74098e-07	0.999997
rad52	7.36190e-07	0.999999	9.39297e-07	0.999998
rad56	5.61676e-07	1.000000	7.16641e-07	0.999999
rad64	1.97836e-07	1.000000	2.52418e-07	0.999999
rad43	1.00004e-07	1.000000	1.27595e-07	0.999999
PAH8+H	7.73009e-08	1.000000	9.86282e-08	1.000000
rad58	5.80225e-08	1.000000	7.40306e-08	1.000000
rad65	5.51354e-08	1.000000	7.03469e-08	1.000000
rad68syn	5.11875e-08	1.000000	6.53098e-08	1.000000
rad42	4.85214e-08	1.000000	6.19082e-08	1.000000
rad68anti	3.37456e-08	1.000000	4.30559e-08	1.000000
rad40syn	1.23711e-08	1.000000	1.57842e-08	1.000000
rad73	1.01769e-08	1.000000	1.29847e-08	1.000000
rad71	9.36208e-09	1.000000	1.19451e-08	1.000000
rad40anti	6.47926e-09	1.000000	8.26688e-09	1.000000
rad61	4.96370e-09	1.000000	6.33318e-09	1.000000
rad41	3.08784e-09	1.000000	3.93976e-09	1.000000
rad72	1.29425e-10	1.000000	1.65133e-10	1.000000
rad6	3.73272e-16	1.000000	4.76256e-16	1.000000
rad11	1.92508e-16	1.000000	2.45620e-16	1.000000
rad7	1.43208e-16	1.000000	1.82719e-16	1.000000
rad9	4.21257e-17	1.000000	5.37480e-17	1.000000
rad13	3.13830e-17	1.000000	4.00415e-17	1.000000
rad45	2.39138e-17	1.000000	3.05115e-17	1.000000
rad21	3.81060e-18	1.000000	4.86193e-18	1.000000
rad36	2.53872e-18	1.000000	3.23913e-18	1.000000
rad2	2.33228e-18	1.000000	2.97574e-18	1.000000
rad10	1.66262e-18	1.000000	2.12133e-18	1.000000
rad20	1.53040e-18	1.000000	1.95263e-18	1.000000
rad28	1.26642e-18	1.000000	1.61581e-18	1.000000
rad33	9.75772e-19	1.000000	1.24499e-18	1.000000
rad1	6.49593e-19	1.000000	8.28817e-19	1.000000
rad3	3.47118e-19	1.000000	4.42886e-19	1.000000
rad18	3.17460e-19	1.000000	4.05046e-19	1.000000
rad4	2.90779e-19	1.000000	3.71003e-19	1.000000
rad25	1.93942e-19	1.000000	2.47449e-19	1.000000
rad15	1.80756e-19	1.000000	2.30626e-19	1.000000
rad26	1.78796e-19	1.000000	2.28125e-19	1.000000
rad24	8.67708e-20	1.000000	1.10711e-19	1.000000
rad12	7.86877e-20	1.000000	1.00397e-19	1.000000
rad22	2.39634e-20	1.000000	3.05747e-20	1.000000
rad14	1.10830e-20	1.000000	1.41408e-20	1.000000
rad23	5.03750e-21	1.000000	6.42732e-21	1.000000
rad27	2.35634e-21	1.000000	3.00644e-21	1.000000
rad8	9.26462e-22	1.000000	1.18207e-21	1.000000
rad31	3.51109e-22	1.000000	4.47978e-22	1.000000
rad47	1.36054e-23	1.000000	1.73591e-23	1.000000
rad5	3.04720e-24	1.000000	3.88791e-24	1.000000

0.100000000E-08 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.61271e-12 (1.00)	3.52361e-12 (1.00)
Formation of rad11	1.20217e-12 (0.261)	7.28782e-13 (0.207)
Formation of rad6	1.56360e-12 (0.339)	9.47887e-13 (0.269)
H-abstraction	1.84694e-12 (0.400)	1.84694e-12 (0.524)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.400402	0.400402	0.524162	0.524162
Phenyl+Allene	0.236109	0.636511	0.00000	0.524162
Indene+H	0.0806435	0.717155	0.105570	0.629731
PhCH2CCH+H	0.0806387	0.797793	0.105563	0.735294
C2H2+PhCH2	0.0787062	0.876500	0.103033	0.838328
PhCHCCH2+H	0.0701571	0.946657	0.0918421	0.930170
PhCCH+CH3	0.0359368	0.982594	0.0470444	0.977214
PAH7+H	0.00805110	0.990645	0.0105396	0.987754
Ph+MeAc	0.00526035	0.995905	0.00688624	0.994640
rad39	0.00146497	0.997370	0.00191777	0.996558
PhCCCH3+H	0.000785539	0.998156	0.00102834	0.997586
rad19anti	0.000582991	0.998739	0.000763188	0.998349
rad19syn	0.000316567	0.999055	0.000414413	0.998764
PAH9+H	0.000302845	0.999358	0.000396450	0.999160
PhcycC3H3_A+H	0.000139913	0.999498	0.000183158	0.999343
rad38	0.000129499	0.999627	0.000169526	0.999513
rad54	0.000122808	0.999750	0.000160767	0.999674

rad35	5.49599e-05	0.999805	7.19472e-05	0.999746
rad46	3.45380e-05	0.999840	4.52132e-05	0.999791
rad30	3.01156e-05	0.999870	3.94239e-05	0.999830
PAH1+H	2.31901e-05	0.999893	3.03579e-05	0.999861
rad50	1.62766e-05	0.999909	2.13074e-05	0.999882
rad37	1.56192e-05	0.999925	2.04470e-05	0.999902
PAH3+H	1.44553e-05	0.999939	1.89232e-05	0.999921
rad70	1.26613e-05	0.999952	1.65747e-05	0.999938
PAH10+CH3	1.25752e-05	0.999965	1.64620e-05	0.999954
rad67	1.09793e-05	0.999976	1.43728e-05	0.999969
rad55	7.93592e-06	0.999983	1.03888e-05	0.999979
rad51	2.96749e-06	0.999986	3.88470e-06	0.999983
rad34	2.57549e-06	0.999989	3.37153e-06	0.999986
rad60syn	1.82792e-06	0.999991	2.39290e-06	0.999989
rad59	1.58467e-06	0.999992	2.07447e-06	0.999991
rad62	1.38706e-06	0.999994	1.81579e-06	0.999993
rad53	1.32204e-06	0.999995	1.73067e-06	0.999994
rad52	1.12378e-06	0.999996	1.47114e-06	0.999996
rad60anti	1.10268e-06	0.999997	1.44350e-06	0.999997
rad56	1.07222e-06	0.999998	1.40364e-06	0.999999
rad64	3.15087e-07	0.999999	4.12476e-07	0.999999
PAH8+H	1.66252e-07	0.999999	2.17639e-07	0.999999
rad43	1.09523e-07	0.999999	1.43375e-07	0.999999
rad68syn	9.28291e-08	0.999999	1.21521e-07	0.999999
rad65	8.88724e-08	0.999999	1.16342e-07	1.000000
rad58	8.42069e-08	0.999999	1.10234e-07	1.000000
rad42	7.16663e-08	0.999999	9.38173e-08	1.000000
rad68anti	6.10163e-08	0.999999	7.98757e-08	1.000000
rad40syn	2.48114e-08	0.999999	3.24802e-08	1.000000
rad71	2.35639e-08	0.999999	3.08472e-08	1.000000
rad73	2.32861e-08	0.999999	3.04835e-08	1.000000
rad40anti	1.33700e-08	0.999999	1.75025e-08	1.000000
rad61	9.14968e-09	0.999999	1.19777e-08	1.000000
rad41	4.14357e-09	0.999999	5.42427e-09	1.000000
rad72	4.05222e-10	0.999999	5.30469e-10	1.000000
rad6	8.13144e-16	0.999999	1.06447e-15	1.000000
rad11	1.35768e-16	0.999999	1.77732e-16	1.000000
rad7	1.25054e-16	0.999999	1.63707e-16	1.000000
rad9	2.73187e-17	0.999999	3.57626e-17	1.000000
rad13	1.89899e-17	0.999999	2.48594e-17	1.000000
rad45	1.35782e-17	0.999999	1.77751e-17	1.000000
rad28	2.43606e-18	0.999999	3.18902e-18	1.000000
rad21	2.42952e-18	0.999999	3.18045e-18	1.000000
rad36	1.45564e-18	0.999999	1.90556e-18	1.000000
rad20	8.79172e-19	0.999999	1.15092e-18	1.000000
rad10	8.76420e-19	0.999999	1.14731e-18	1.000000
rad2	8.21857e-19	0.999999	1.07588e-18	1.000000
rad33	6.33589e-19	0.999999	8.29424e-19	1.000000
rad15	2.99210e-19	0.999999	3.91692e-19	1.000000
rad18	2.34697e-19	0.999999	3.07239e-19	1.000000
rad1	2.33617e-19	0.999999	3.05825e-19	1.000000
rad26	1.91930e-19	0.999999	2.51253e-19	1.000000
rad3	1.63676e-19	0.999999	2.14266e-19	1.000000
rad4	1.37833e-19	0.999999	1.80436e-19	1.000000
rad25	1.37831e-19	0.999999	1.80433e-19	1.000000
rad22	1.27465e-19	0.999999	1.66863e-19	1.000000
rad12	6.49250e-20	0.999999	8.49924e-20	1.000000
rad24	6.18581e-20	0.999999	8.09777e-20	1.000000
rad23	5.62738e-20	0.999999	7.36674e-20	1.000000
rad14	6.98939e-21	0.999999	9.14971e-21	1.000000
rad27	1.15740e-21	0.999999	1.51513e-21	1.000000
rad8	9.76883e-22	0.999999	1.27883e-21	1.000000
rad31	2.37694e-22	0.999999	3.11163e-22	1.000000
rad47	2.21852e-23	0.999999	2.90423e-23	1.000000
rad5	9.58379e-24	0.999999	1.25461e-23	1.000000

0.100000000E-08 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.61869e-12 (1.00)	6.27400e-12 (1.00)
Formation of rad11	2.04015e-12 (0.237)	1.05237e-12 (0.168)
Formation of rad6	2.80256e-12 (0.325)	1.44565e-12 (0.230)
H-abstraction	3.77597e-12 (0.438)	3.77597e-12 (0.602)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.438115	0.438115	0.601845	0.601845
Phenyl+Allene	0.272047	0.710162	0.000000	0.601845
PhCH2CCH+H	0.0933387	0.803501	0.128221	0.730066

PhCHCCH2+H	0.0656327	0.869134	0.0901606	0.820227
C2H2+PhCH2	0.0475978	0.916731	0.0653858	0.885612
Indene+H	0.0395372	0.956269	0.0543127	0.939925
PhCCH+CH3	0.0276514	0.983920	0.0379853	0.977910
PAH7+H	0.00712605	0.991046	0.00978916	0.987700
Ph+MeAc	0.00488545	0.995931	0.00671122	0.994411
rad39	0.00123375	0.997165	0.00169483	0.996106
rad19anti	0.000564116	0.997729	0.000774933	0.996881
rad19syn	0.000506158	0.998235	0.000695318	0.997576
PhCCCH3+H	0.000461483	0.998697	0.000633946	0.998210
PhcycC3H3_A+H	0.000354596	0.999052	0.000487115	0.998697
PAH9+H	0.000266731	0.999318	0.000366412	0.999063
rad54	0.000215004	0.999533	0.000295354	0.999359
rad38	0.000142764	0.999676	0.000196118	0.999555
rad35	4.88397e-05	0.999725	6.70919e-05	0.999622
PAH1+H	4.24056e-05	0.999767	5.82532e-05	0.999680
rad46	3.79670e-05	0.999805	5.21559e-05	0.999732
rad50	2.38701e-05	0.999829	3.27908e-05	0.999765
rad30	2.30179e-05	0.999852	3.16201e-05	0.999797
PAH10+CH3	2.22275e-05	0.999874	3.05343e-05	0.999827
rad70	2.20506e-05	0.999896	3.02913e-05	0.999858
PAH3+H	2.08052e-05	0.999917	2.85805e-05	0.999886
rad55	1.72026e-05	0.999934	2.36314e-05	0.999910
rad67	1.69163e-05	0.999951	2.32382e-05	0.999933
rad37	1.61425e-05	0.999968	2.21752e-05	0.999955
rad51	6.11253e-06	0.999974	8.39689e-06	0.999964
rad34	5.25680e-06	0.999979	7.22134e-06	0.999971
rad53	4.39527e-06	0.999983	6.03786e-06	0.999977
rad56	3.99314e-06	0.999987	5.48546e-06	0.999982
rad62	2.35598e-06	0.999990	3.23645e-06	0.999986
rad59	2.06481e-06	0.999992	2.83647e-06	0.999988
rad52	2.03181e-06	0.999994	2.79112e-06	0.999991
rad60syn	1.94292e-06	0.999996	2.66902e-06	0.999994
rad60anti	1.30713e-06	0.999997	1.79563e-06	0.999996
rad64	7.88600e-07	0.999998	1.08332e-06	0.999997
PAH8+H	5.90480e-07	0.999998	8.11153e-07	0.999998
rad68syn	2.81742e-07	0.999999	3.87034e-07	0.999998
rad68anti	1.82569e-07	0.999999	2.50799e-07	0.999998
rad65	1.74382e-07	0.999999	2.39552e-07	0.999998
rad42	1.70585e-07	0.999999	2.34336e-07	0.999999
rad58	1.57351e-07	0.999999	2.16156e-07	0.999999
rad43	1.31435e-07	0.999999	1.80554e-07	0.999999
rad71	1.24696e-07	1.000000	1.71297e-07	0.999999
rad73	9.95914e-08	1.000000	1.36810e-07	0.999999
rad40syn	8.39457e-08	1.000000	1.15318e-07	1.000000
rad40anti	5.01024e-08	1.000000	6.88266e-08	1.000000
rad61	2.64237e-08	1.000000	3.62987e-08	1.000000
rad41	7.91859e-09	1.000000	1.08779e-08	1.000000
rad72	3.69499e-09	1.000000	5.07588e-09	1.000000
rad6	2.60708e-15	1.000000	3.58139e-15	1.000000
rad7	2.29283e-17	1.000000	3.14970e-17	1.000000
rad11	1.74056e-17	1.000000	2.39103e-17	1.000000
rad28	6.31553e-18	1.000000	8.67576e-18	1.000000
rad23	3.58856e-18	1.000000	4.92968e-18	1.000000
rad9	2.21518e-18	1.000000	3.04303e-18	1.000000
rad13	1.60831e-18	1.000000	2.20937e-18	1.000000
rad45	1.26507e-18	1.000000	1.73785e-18	1.000000
rad22	8.40659e-19	1.000000	1.15482e-18	1.000000
rad36	2.25128e-19	1.000000	3.09263e-19	1.000000
rad21	1.98012e-19	1.000000	2.72012e-19	1.000000
rad26	1.29831e-19	1.000000	1.78352e-19	1.000000
rad15	1.11834e-19	1.000000	1.53628e-19	1.000000
rad10	7.64850e-20	1.000000	1.05069e-19	1.000000
rad20	6.44623e-20	1.000000	8.85528e-20	1.000000
rad33	5.54004e-20	1.000000	7.61045e-20	1.000000
rad18	2.99781e-20	1.000000	4.11816e-20	1.000000
rad2	2.41756e-20	1.000000	3.32105e-20	1.000000
rad25	1.43077e-20	1.000000	1.96547e-20	1.000000
rad12	7.47122e-21	1.000000	1.02634e-20	1.000000
rad1	6.90214e-21	1.000000	9.48162e-21	1.000000
rad3	6.16214e-21	1.000000	8.46505e-21	1.000000
rad24	6.07027e-21	1.000000	8.33884e-21	1.000000
rad4	4.00645e-21	1.000000	5.50374e-21	1.000000
rad14	7.58528e-22	1.000000	1.04200e-21	1.000000
rad8	2.76592e-22	1.000000	3.79959e-22	1.000000
rad27	6.88422e-23	1.000000	9.45698e-23	1.000000
rad5	5.43367e-23	1.000000	7.46433e-23	1.000000
rad47	1.43456e-23	1.000000	1.97067e-23	1.000000

0.100000000E-08 Pa, 2000.00000 K

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Rate constant      | True (fraction)      Effective (fraction)
-----
Total              | 1.44111e-11 (1.00  ) 1.02930e-11 (1.00  )
Formation of rad11| 3.16882e-12 (0.220  ) 1.47449e-12 (0.143  )
Formation of rad6  | 4.53302e-12 (0.315  ) 2.10927e-12 (0.205  )
H-abstraction     | 6.70922e-12 (0.466  ) 6.70922e-12 (0.652  )

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species           | PYtrue      Cumul      | PYeffective  Cumul
-----
Benzene+2-propynyl| 0.465560    0.465560    | 0.651825    0.651825
Phenyl+Allene     | 0.285759    0.751319    | 0.000000    0.651825
PhCH2CCH+H       | 0.0971788   0.848498    | 0.136059    0.787884
PhCHCCH2+H       | 0.0592993   0.907797    | 0.0830241   0.870908
C2H2+PhCH2       | 0.0319942   0.939791    | 0.0447948   0.915703
Indene+H          | 0.0233046   0.963096    | 0.0326284   0.948331
PhCCH+CH3        | 0.0216466   0.984742    | 0.0303071   0.978638
PAH7+H           | 0.00659328  0.991336    | 0.00923114  0.987869
Ph+MeAc          | 0.00420938  0.995545    | 0.00589349  0.993763
rad39            | 0.00101472  0.996560    | 0.00142069  0.995183
rad19syn         | 0.000746783 0.997306    | 0.00104557  0.996229
PhcycC3H3_A+H   | 0.000656335 0.997963    | 0.000918925 0.997148
rad19anti        | 0.000529228 0.998492    | 0.000740966 0.997889
rad54            | 0.000330237 0.998822    | 0.000462359 0.998351
PhCCCH3+H       | 0.000291962 0.999114    | 0.000408772 0.998760
PAH9+H          | 0.000279546 0.999394    | 0.000391387 0.999151
rad38            | 0.000156414 0.999550    | 0.000218994 0.999370
PAH1+H          | 6.96990e-05 0.999620    | 9.75848e-05 0.999468
rad35            | 5.18637e-05 0.999672    | 7.26137e-05 0.999541
rad46            | 4.57412e-05 0.999717    | 6.40416e-05 0.999605
rad50            | 3.87497e-05 0.999756    | 5.42530e-05 0.999659
PAH10+CH3       | 3.34470e-05 0.999790    | 4.68285e-05 0.999706
rad70           | 3.20125e-05 0.999822    | 4.48203e-05 0.999751
rad55           | 2.86889e-05 0.999850    | 4.01669e-05 0.999791
PAH3+H          | 2.79049e-05 0.999878    | 3.90694e-05 0.999830
rad67           | 2.51584e-05 0.999903    | 3.52238e-05 0.999865
rad30           | 1.88901e-05 0.999922    | 2.64479e-05 0.999891
rad37           | 1.66057e-05 0.999939    | 2.32494e-05 0.999915
rad51           | 1.22963e-05 0.999951    | 1.72160e-05 0.999932
rad56           | 1.03249e-05 0.999961    | 1.44559e-05 0.999946
rad53           | 9.90974e-06 0.999971    | 1.38745e-05 0.999960
rad34           | 8.56178e-06 0.999980    | 1.19873e-05 0.999972
rad52           | 3.64112e-06 0.999984    | 5.09788e-06 0.999977
rad62           | 3.41505e-06 0.999987    | 4.78139e-06 0.999982
rad59           | 2.58714e-06 0.999990    | 3.62224e-06 0.999986
rad60syn        | 2.06844e-06 0.999992    | 2.89599e-06 0.999989
PAH8+H          | 1.81455e-06 0.999993    | 2.54053e-06 0.999991
rad64           | 1.47576e-06 0.999995    | 2.06619e-06 0.999993
rad60anti       | 1.42207e-06 0.999996    | 1.99102e-06 0.999995
rad68syn        | 6.53892e-07 0.999997    | 9.15510e-07 0.999996
rad71           | 4.98025e-07 0.999998    | 6.97277e-07 0.999997
rad68anti       | 4.21792e-07 0.999998    | 5.90544e-07 0.999997
rad73           | 3.38736e-07 0.999998    | 4.74260e-07 0.999998
rad65           | 3.37785e-07 0.999999    | 4.72930e-07 0.999998
rad42           | 3.12138e-07 0.999999    | 4.37019e-07 0.999999
rad58           | 2.75720e-07 0.999999    | 3.86032e-07 0.999999
rad40syn        | 2.27523e-07 0.999999    | 3.18551e-07 1.000000
rad43           | 1.62531e-07 1.000000    | 2.27558e-07 1.000000
rad40anti       | 1.42660e-07 1.000000    | 1.99737e-07 1.000000
rad61           | 5.98888e-08 1.000000    | 8.38493e-08 1.000000
rad72           | 2.09307e-08 1.000000    | 2.93048e-08 1.000000
rad41           | 1.34670e-08 1.000000    | 1.88550e-08 1.000000
rad6            | 5.81609e-08 1.000000    | 8.14302e-08 1.000000
rad7            | 5.24963e-08 1.000000    | 7.34995e-08 1.000000
rad11          | 4.12470e-08 1.000000    | 5.77494e-08 1.000000
rad23          | 2.79425e-08 1.000000    | 3.91220e-08 1.000000
rad28          | 2.01426e-08 1.000000    | 2.82014e-08 1.000000
rad9           | 7.53763e-09 1.000000    | 1.05533e-08 1.000000
rad13          | 4.89589e-09 1.000000    | 6.85467e-09 1.000000
rad45          | 3.84563e-09 1.000000    | 5.38422e-09 1.000000
rad22          | 2.64941e-09 1.000000    | 3.70939e-09 1.000000
rad21          | 7.16422e-10 1.000000    | 1.00305e-09 1.000000
rad36          | 7.00581e-10 1.000000    | 9.80872e-10 1.000000
rad15          | 3.98237e-10 1.000000    | 5.57564e-10 1.000000
rad26          | 3.09793e-10 1.000000    | 4.33736e-10 1.000000
rad33          | 2.26331e-10 1.000000    | 3.16884e-10 1.000000
rad20          | 1.89431e-10 1.000000    | 2.65220e-10 1.000000
rad10          | 1.13916e-10 1.000000    | 1.59493e-10 1.000000
rad18          | 6.66195e-11 1.000000    | 9.32730e-11 1.000000
rad25          | 5.79819e-11 1.000000    | 8.11799e-11 1.000000

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rad12	4.14756e-21	1.000000	5.80694e-21	1.00000
rad2	3.20016e-21	1.000000	4.48049e-21	1.00000
rad24	2.85159e-21	1.000000	3.99249e-21	1.00000
rad3	1.56282e-21	1.000000	2.18808e-21	1.00000
rad4	1.00818e-21	1.000000	1.41154e-21	1.00000
rad1	9.46926e-22	1.000000	1.32578e-21	1.00000
rad14	2.92675e-22	1.000000	4.09771e-22	1.00000
rad8	2.34712e-22	1.000000	3.28617e-22	1.00000
rad5	3.72758e-23	1.000000	5.21894e-23	1.00000
rad47	2.86742e-23	1.000000	4.01464e-23	1.00000
rad27	1.89904e-23	1.000000	2.65882e-23	1.00000

0.100000000E-08 Pa, 2250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.23655e-11 (1.00)	1.58437e-11 (1.00)
Formation of rad11	4.62280e-12 (0.207)	1.98925e-12 (0.126)
Formation of rad6	6.82518e-12 (0.305)	2.93696e-12 (0.185)
H-abstraction	1.09175e-11 (0.488)	1.09175e-11 (0.689)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.488140	0.488140	0.689074	0.689074
Phenyl+Allene	0.291600	0.779740	0.000000	0.689074
PhCH2CCH+H	0.0967415	0.876482	0.136563	0.825637
PhCHCCH2+H	0.0532744	0.929756	0.0752040	0.900841
C2H2+PhCH2	0.0232642	0.953020	0.0328403	0.933682
PhCCH+CH3	0.0176492	0.970669	0.0249142	0.958596
Indene+H	0.0145378	0.985207	0.0205221	0.979118
PAH7+H	0.00604332	0.991251	0.00853097	0.987649
Ph+MeAc	0.00373478	0.994985	0.00527212	0.992921
PhcycC3H3_A+H	0.00104439	0.996030	0.00147430	0.994395
rad19syn	0.000992650	0.997022	0.00140125	0.995797
rad39	0.000833753	0.997856	0.00117695	0.996974
rad19anti	0.000463520	0.998320	0.000654319	0.997628
rad54	0.000448432	0.998768	0.000633020	0.998261
PAH9+H	0.000276004	0.999044	0.000389615	0.998651
PhCCCH3+H	0.000209665	0.999254	0.000295970	0.998946
rad38	0.000160719	0.999414	0.000226876	0.999173
PAH1+H	9.95931e-05	0.999514	0.000140589	0.999314
rad50	5.46328e-05	0.999569	7.71214e-05	0.999391
rad35	5.24979e-05	0.999621	7.41079e-05	0.999465
rad46	5.06983e-05	0.999672	7.15674e-05	0.999537
PAH10+CH3	4.32190e-05	0.999715	6.10093e-05	0.999598
rad55	4.15447e-05	0.999757	5.86459e-05	0.999656
rad70	4.13232e-05	0.999798	5.83331e-05	0.999715
PAH3+H	3.54273e-05	0.999833	5.00103e-05	0.999765
rad67	3.21710e-05	0.999866	4.54135e-05	0.999810
rad56	2.10958e-05	0.999887	2.97795e-05	0.999840
rad51	2.05290e-05	0.999907	2.89794e-05	0.999869
rad53	1.82253e-05	0.999925	2.57273e-05	0.999895
rad30	1.61770e-05	0.999942	2.28359e-05	0.999917
rad37	1.58091e-05	0.999957	2.23166e-05	0.999940
rad34	1.21378e-05	0.999970	1.71341e-05	0.999957
rad52	5.53699e-06	0.999975	7.81618e-06	0.999965
rad62	4.54170e-06	0.999980	6.41120e-06	0.999971
PAH8+H	4.26413e-06	0.999984	6.01937e-06	0.999977
rad59	3.10133e-06	0.999987	4.37793e-06	0.999982
rad64	2.31389e-06	0.999989	3.26637e-06	0.999985
rad60syn	2.18352e-06	0.999991	3.08232e-06	0.999988
rad60anti	1.52762e-06	0.999993	2.15643e-06	0.999990
rad71	1.42621e-06	0.999994	2.01328e-06	0.999992
rad68syn	1.22834e-06	0.999996	1.73396e-06	0.999994
rad73	8.52958e-07	0.999996	1.20406e-06	0.999995
rad68anti	7.89692e-07	0.999997	1.11475e-06	0.999996
rad65	5.43585e-07	0.999998	7.67340e-07	0.999997
rad42	4.97942e-07	0.999998	7.02910e-07	0.999998
rad40syn	4.83630e-07	0.999999	6.82706e-07	0.999998
rad58	4.30302e-07	0.999999	6.07428e-07	0.999999
rad40anti	3.15359e-07	1.000000	4.45171e-07	0.999999
rad43	2.01350e-07	1.000000	2.84232e-07	1.000000
rad61	1.06762e-07	1.000000	1.50709e-07	1.000000
rad72	7.85254e-08	1.000000	1.10849e-07	1.000000
rad41	2.11925e-08	1.000000	2.99160e-08	1.000000
rad6	1.18058e-16	1.000000	1.66654e-16	1.000000
rad7	1.68545e-18	1.000000	2.37923e-18	1.000000
rad11	1.28920e-18	1.000000	1.81987e-18	1.000000
rad23	8.12659e-19	1.000000	1.14718e-18	1.000000
rad28	4.33590e-19	1.000000	6.12070e-19	1.000000

rad9	2.74000e-19	1.000000	3.86786e-19	1.000000
rad13	1.82808e-19	1.000000	2.58058e-19	1.000000
rad45	1.33397e-19	1.000000	1.88308e-19	1.000000
rad22	6.74032e-20	1.000000	9.51483e-20	1.000000
rad21	2.97971e-20	1.000000	4.20624e-20	1.000000
rad36	2.47994e-20	1.000000	3.50075e-20	1.000000
rad15	1.60376e-20	1.000000	2.26392e-20	1.000000
rad33	1.06526e-20	1.000000	1.50376e-20	1.000000
rad26	8.47967e-21	1.000000	1.19702e-20	1.000000
rad20	6.76720e-21	1.000000	9.55283e-21	1.000000
rad10	3.03866e-21	1.000000	4.28947e-21	1.000000
rad25	2.68292e-21	1.000000	3.78730e-21	1.000000
rad12	2.31790e-21	1.000000	3.27203e-21	1.000000
rad18	2.02949e-21	1.000000	2.86490e-21	1.000000
rad24	1.45642e-21	1.000000	2.05592e-21	1.000000
rad2	6.12686e-22	1.000000	8.64887e-22	1.000000
rad3	5.09468e-22	1.000000	7.19181e-22	1.000000
rad4	3.22592e-22	1.000000	4.55382e-22	1.000000
rad8	2.01388e-22	1.000000	2.84285e-22	1.000000
rad1	1.83193e-22	1.000000	2.58601e-22	1.000000
rad14	1.40657e-22	1.000000	1.98555e-22	1.000000
rad47	4.71862e-23	1.000000	6.66093e-23	1.000000
rad5	2.19042e-23	1.000000	3.09207e-23	1.000000
rad27	7.37416e-24	1.000000	1.04096e-23	1.000000

0.100000000E-08 Pa, 2500.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.28090e-11	(1.00)	2.31980e-11	(1.00)
Formation of rad11	6.43164e-12	(0.196)	2.60906e-12	(0.112)
Formation of rad6	9.73932e-12	(0.297)	3.95085e-12	(0.170)
H-abstraction	1.66381e-11	(0.507)	1.66381e-11	(0.717)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.507119	0.507119	0.717221	0.717221
Phenyl+Allene	0.292939	0.800058	0.000000	0.717221
PhCH2CCH+H	0.0943957	0.894453	0.133505	0.850725
PhCHCCH2+H	0.0481939	0.942647	0.0681609	0.918886
C2H2+PhCH2	0.0183497	0.960997	0.0259521	0.944838
PhCCH+CH3	0.0148752	0.975872	0.0210381	0.965876
Indene+H	0.00953292	0.985405	0.0134824	0.979359
PAH7+H	0.00553047	0.990936	0.00782174	0.987180
Ph+MeAc	0.00339482	0.994330	0.00480131	0.991982
PhcycC3H3_A+H	0.00149309	0.995824	0.00211168	0.994093
rad19syn	0.00122618	0.997050	0.00173419	0.995828
rad39	0.000692493	0.997742	0.000979395	0.996807
rad54	0.000558297	0.998301	0.000789599	0.997597
rad19anti	0.000392540	0.998693	0.000555170	0.998152
PAH9+H	0.000261381	0.998954	0.000369672	0.998522
PhCCCH3+H	0.000164587	0.999119	0.000232776	0.998754
rad38	0.000157797	0.999277	0.000223174	0.998977
PAH1+H	0.000129617	0.999406	0.000183319	0.999161
rad50	6.95411e-05	0.999476	9.83527e-05	0.999259
rad55	5.44673e-05	0.999530	7.70336e-05	0.999336
rad46	5.29591e-05	0.999583	7.49001e-05	0.999411
rad35	5.14100e-05	0.999635	7.27094e-05	0.999484
PAH10+CH3	5.04331e-05	0.999685	7.13277e-05	0.999555
rad70	4.95223e-05	0.999735	7.00399e-05	0.999625
PAH3+H	4.31617e-05	0.999778	6.10439e-05	0.999686
rad67	3.73882e-05	0.999815	5.28783e-05	0.999739
rad56	3.65112e-05	0.999852	5.16378e-05	0.999791
rad51	2.99347e-05	0.999882	4.23369e-05	0.999833
rad53	2.90213e-05	0.999911	4.10449e-05	0.999874
rad34	1.57208e-05	0.999926	2.22340e-05	0.999896
rad30	1.43454e-05	0.999941	2.02888e-05	0.999917
rad37	1.43019e-05	0.999955	2.02272e-05	0.999937
PAH8+H	8.32886e-06	0.999963	1.17795e-05	0.999949
rad52	7.47627e-06	0.999971	1.05737e-05	0.999959
rad62	5.70269e-06	0.999977	8.06532e-06	0.999967
rad59	3.60017e-06	0.999980	5.09173e-06	0.999972
rad64	3.22135e-06	0.999983	4.55597e-06	0.999977
rad71	3.21465e-06	0.999987	4.54650e-06	0.999981
rad60syn	2.29248e-06	0.999989	3.24226e-06	0.999985
rad68syn	1.99920e-06	0.999991	2.82747e-06	0.999988
rad73	1.73023e-06	0.999993	2.44707e-06	0.999990
rad60anti	1.62672e-06	0.999994	2.30068e-06	0.999992
rad68anti	1.28205e-06	0.999996	1.81322e-06	0.999994
rad40syn	8.70429e-07	0.999996	1.23105e-06	0.999995

rad65	7.65686e-07	0.999997	1.08291e-06	0.999996
rad42	7.25369e-07	0.999998	1.02590e-06	0.999997
rad58	6.16762e-07	0.999999	8.72293e-07	0.999998
rad40anti	5.85898e-07	0.999999	8.28640e-07	0.999999
rad43	2.45120e-07	0.999999	3.46673e-07	0.999999
rad72	2.19453e-07	1.000000	3.10373e-07	1.000000
rad61	1.61750e-07	1.000000	2.28765e-07	1.000000
rad41	3.09947e-08	1.000000	4.38359e-08	1.000000
rad6	3.23599e-17	1.000000	4.57667e-17	1.000000
rad7	6.60215e-19	1.000000	9.33741e-19	1.000000
rad11	4.80249e-19	1.000000	6.79219e-19	1.000000
rad23	2.38823e-19	1.000000	3.37769e-19	1.000000
rad28	1.17706e-19	1.000000	1.66472e-19	1.000000
rad9	1.06893e-19	1.000000	1.51178e-19	1.000000
rad13	7.91321e-20	1.000000	1.11917e-19	1.000000
rad45	5.19946e-20	1.000000	7.35365e-20	1.000000
rad22	2.12454e-20	1.000000	3.00473e-20	1.000000
rad21	1.39345e-20	1.000000	1.97077e-20	1.000000
rad36	9.83515e-21	1.000000	1.39099e-20	1.000000
rad15	6.95052e-21	1.000000	9.83015e-21	1.000000
rad33	5.56576e-21	1.000000	7.87170e-21	1.000000
rad26	3.00894e-21	1.000000	4.25555e-21	1.000000
rad20	2.88827e-21	1.000000	4.08489e-21	1.000000
rad25	1.37165e-21	1.000000	1.93993e-21	1.000000
rad12	1.32606e-21	1.000000	1.87546e-21	1.000000
rad10	1.10598e-21	1.000000	1.56419e-21	1.000000
rad24	7.99114e-22	1.000000	1.13019e-21	1.000000
rad18	7.64139e-22	1.000000	1.08073e-21	1.000000
rad3	2.03107e-22	1.000000	2.87253e-22	1.000000
rad8	1.74700e-22	1.000000	2.47079e-22	1.000000
rad2	1.64892e-22	1.000000	2.33207e-22	1.000000
rad4	1.25719e-22	1.000000	1.77806e-22	1.000000
rad14	7.76880e-23	1.000000	1.09875e-22	1.000000
rad47	6.74962e-23	1.000000	9.54604e-23	1.000000
rad1	4.80966e-23	1.000000	6.80232e-23	1.000000
rad5	1.44553e-23	1.000000	2.04442e-23	1.000000
rad27	3.67276e-24	1.000000	5.19440e-24	1.000000

0.100000000E-08 Pa, 2750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.60596e-11 (1.00)	3.26255e-11 (1.00)
Formation of rad11	8.62280e-12 (0.187)	3.34633e-12 (0.103)
Formation of rad6	1.33313e-11 (0.289)	5.17360e-12 (0.159)
H-abstraction	2.41055e-11 (0.523)	2.41055e-11 (0.739)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.523355	0.523355	0.738856	0.738856
Phenyl+Allene	0.291669	0.815024	0.000000	0.738856
PhCH2CCH+H	0.0913925	0.906416	0.129025	0.867881
PhCHCCH2+H	0.0440897	0.950506	0.0622446	0.930126
C2H2+PhCH2	0.0155259	0.966032	0.0219190	0.952045
PhCCH+CH3	0.0128664	0.978898	0.0181644	0.970209
Indene+H	0.00652675	0.985425	0.00921427	0.979424
PAH7+H	0.00506746	0.990493	0.00715408	0.986578
Ph+MeAc	0.00315047	0.993643	0.00444775	0.991026
PhcycC3H3_A+H	0.00197300	0.995616	0.00278544	0.993811
rad19syn	0.00143568	0.997052	0.00202686	0.995838
rad54	0.000652594	0.997704	0.000921315	0.996759
rad39	0.000584043	0.998288	0.000824532	0.997584
rad19anti	0.000328573	0.998617	0.000463869	0.998048
PAH9+H	0.000240059	0.998857	0.000338907	0.998386
PAH1+H	0.000158291	0.999015	0.000223471	0.998610
rad38	0.000149711	0.999165	0.000211358	0.998821
PhCCCH3+H	0.000136861	0.999302	0.000193216	0.999015
rad50	8.19601e-05	0.999384	0.000115709	0.999130
rad55	6.64334e-05	0.999450	9.37887e-05	0.999224
rad70	5.64830e-05	0.999507	7.97407e-05	0.999304
rad56	5.59920e-05	0.999563	7.90477e-05	0.999383
PAH10+CH3	5.49972e-05	0.999618	7.76435e-05	0.999460
rad46	5.29186e-05	0.999671	7.47090e-05	0.999535
PAH3+H	5.07704e-05	0.999721	7.16761e-05	0.999607
rad35	4.92117e-05	0.999771	6.94754e-05	0.999676
rad53	4.15958e-05	0.999812	5.87239e-05	0.999735
rad67	4.08893e-05	0.999853	5.77263e-05	0.999793
rad51	3.94231e-05	0.999893	5.56562e-05	0.999848
rad34	1.91382e-05	0.999912	2.70187e-05	0.999875
PAH8+H	1.42400e-05	0.999926	2.01036e-05	0.999896

rad30	1.30159e-05	0.999939	1.83754e-05	0.999914
rad37	1.25497e-05	0.999951	1.77173e-05	0.999932
rad52	9.23200e-06	0.999961	1.30335e-05	0.999945
rad62	6.96508e-06	0.999968	9.83308e-06	0.999954
rad71	6.06264e-06	0.999974	8.55906e-06	0.999963
rad64	4.12924e-06	0.999978	5.82954e-06	0.999969
rad59	4.06487e-06	0.999982	5.73866e-06	0.999975
rad73	2.98825e-06	0.999985	4.21872e-06	0.999979
rad68syn	2.93858e-06	0.999988	4.14861e-06	0.999983
rad60syn	2.38752e-06	0.999990	3.37063e-06	0.999986
rad68anti	1.88086e-06	0.999992	2.65533e-06	0.999989
rad60anti	1.71401e-06	0.999994	2.41979e-06	0.999991
rad40syn	1.39059e-06	0.999995	1.96319e-06	0.999993
rad42	1.00618e-06	0.999996	1.42050e-06	0.999995
rad65	9.77109e-07	0.999997	1.37945e-06	0.999996
rad40anti	9.60893e-07	0.999998	1.35656e-06	0.999998
rad58	8.26832e-07	0.999999	1.16730e-06	0.999999
rad72	4.93194e-07	1.000000	6.96274e-07	0.999999
rad43	2.90363e-07	1.000000	4.09925e-07	1.000000
rad61	2.19014e-07	1.000000	3.09197e-07	1.000000
rad41	4.25216e-08	1.000000	6.00307e-08	1.000000
rad6	1.10234e-17	1.000000	1.55625e-17	1.000000
rad7	2.96665e-19	1.000000	4.18822e-19	1.000000
rad11	2.05427e-19	1.000000	2.90016e-19	1.000000
rad23	8.13100e-20	1.000000	1.14791e-19	1.000000
rad9	4.48621e-20	1.000000	6.33349e-20	1.000000
rad28	4.00876e-20	1.000000	5.65945e-20	1.000000
rad13	3.84823e-20	1.000000	5.43281e-20	1.000000
rad45	2.23769e-20	1.000000	3.15911e-20	1.000000
rad22	7.92771e-21	1.000000	1.11921e-20	1.000000
rad21	7.20273e-21	1.000000	1.01686e-20	1.000000
rad36	4.29472e-21	1.000000	6.06315e-21	1.000000
rad15	3.20712e-21	1.000000	4.52773e-21	1.000000
rad33	3.15102e-21	1.000000	4.44850e-21	1.000000
rad20	1.44342e-21	1.000000	2.03778e-21	1.000000
rad26	1.23244e-21	1.000000	1.73992e-21	1.000000
rad12	7.84782e-22	1.000000	1.10793e-21	1.000000
rad25	7.63295e-22	1.000000	1.07760e-21	1.000000
rad10	4.77970e-22	1.000000	6.74785e-22	1.000000
rad24	4.65717e-22	1.000000	6.57484e-22	1.000000
rad18	3.38453e-22	1.000000	4.77817e-22	1.000000
rad8	1.52996e-22	1.000000	2.15996e-22	1.000000
rad3	9.44301e-23	1.000000	1.33314e-22	1.000000
rad47	8.69678e-23	1.000000	1.22779e-22	1.000000
rad2	5.85702e-23	1.000000	8.26877e-23	1.000000
rad4	5.73805e-23	1.000000	8.10081e-23	1.000000
rad14	4.74805e-23	1.000000	6.70314e-23	1.000000
rad1	1.61716e-23	1.000000	2.28306e-23	1.000000
rad5	1.01381e-23	1.000000	1.43127e-23	1.000000
rad27	2.15735e-24	1.000000	3.04569e-24	1.000000

0.100000000E-08 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.24269e-11 (1.00)	4.43911e-11 (1.00)
Formation of rad11	1.12221e-11 (0.180)	4.21269e-12 (0.0949)
Formation of rad6	1.76534e-11 (0.283)	6.62699e-12 (0.149)
H-abstraction	3.35514e-11 (0.537)	3.35514e-11 (0.756)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.537451	0.537451	0.755814	0.755814
Phenyl+Allene	0.288911	0.826362	0.000000	0.755814
PhCH2CCH+H	0.0883066	0.914669	0.124185	0.879999
PhCHCCH2+H	0.0408111	0.955480	0.0573925	0.937392
C2H2+PhCH2	0.0138651	0.969345	0.0194984	0.956890
PhCCH+CH3	0.0113582	0.980703	0.0159730	0.972863
PAH7+H	0.00465329	0.985356	0.00654386	0.979407
Indene+H	0.00463895	0.989995	0.00652370	0.985931
Ph+MeAc	0.00297587	0.992971	0.00418496	0.990116
PhcycC3H3_A+H	0.00245642	0.995427	0.00345445	0.993570
rad19syn	0.00161454	0.997042	0.00227052	0.995841
rad54	0.000727890	0.997770	0.00102362	0.996864
rad39	0.000500510	0.998270	0.000703861	0.997568
rad19anti	0.000275358	0.998546	0.000387232	0.997955
PAH9+H	0.000215435	0.998761	0.000302964	0.998258
PAH1+H	0.000185098	0.998946	0.000260302	0.998519
rad38	0.000138297	0.999085	0.000194486	0.998713
PhCCCH3+H	0.000118094	0.999203	0.000166074	0.998879

rad50	9.10199e-05	0.999294	0.000128001	0.999007
rad56	7.84307e-05	0.999372	0.000110297	0.999117
rad55	7.67854e-05	0.999449	0.000107983	0.999225
rad70	6.22156e-05	0.999511	8.74935e-05	0.999313
PAH3+H	5.79162e-05	0.999569	8.14472e-05	0.999394
PAH10+CH3	5.73435e-05	0.999626	8.06419e-05	0.999475
rad53	5.50942e-05	0.999682	7.74787e-05	0.999552
rad46	5.10964e-05	0.999733	7.18563e-05	0.999624
rad51	4.79927e-05	0.999781	6.74918e-05	0.999692
rad35	4.64038e-05	0.999827	6.52572e-05	0.999757
rad67	4.30004e-05	0.999870	6.04712e-05	0.999818
rad34	2.22803e-05	0.999892	3.13327e-05	0.999849
PAH8+H	2.20424e-05	0.999914	3.09982e-05	0.999880
rad30	1.19659e-05	0.999926	1.68276e-05	0.999897
rad37	1.08360e-05	0.999937	1.52386e-05	0.999912
rad52	1.06405e-05	0.999948	1.49636e-05	0.999927
rad71	9.97847e-06	0.999958	1.40327e-05	0.999941
rad62	8.52399e-06	0.999966	1.19872e-05	0.999953
rad64	4.99011e-06	0.999971	7.01754e-06	0.999960
rad73	4.56449e-06	0.999976	6.41901e-06	0.999966
rad59	4.47702e-06	0.999980	6.29599e-06	0.999973
rad68syn	4.00554e-06	0.999984	5.63295e-06	0.999978
rad68anti	2.55993e-06	0.999987	3.60001e-06	0.999982
rad60syn	2.46101e-06	0.999989	3.46090e-06	0.999985
rad40syn	2.03324e-06	0.999991	2.85932e-06	0.999988
rad60anti	1.78407e-06	0.999993	2.50894e-06	0.999991
rad40anti	1.43624e-06	0.999995	2.01978e-06	0.999993
rad42	1.37800e-06	0.999996	1.93787e-06	0.999995
rad65	1.15674e-06	0.999997	1.62672e-06	0.999996
rad58	1.05023e-06	0.999998	1.47693e-06	0.999998
rad72	9.39261e-07	0.999999	1.32087e-06	0.999999
rad43	3.36095e-07	0.999999	4.72649e-07	1.000000
rad61	2.73990e-07	1.000000	3.85311e-07	1.000000
rad41	5.56844e-08	1.000000	7.83087e-08	1.000000
rad6	4.37642e-18	1.000000	6.15453e-18	1.000000
rad7	1.48079e-19	1.000000	2.08243e-19	1.000000
rad11	9.86330e-20	1.000000	1.38707e-19	1.000000
rad23	3.09857e-20	1.000000	4.35750e-20	1.000000
rad13	2.05537e-20	1.000000	2.89045e-20	1.000000
rad9	2.02558e-20	1.000000	2.84858e-20	1.000000
rad28	1.58940e-20	1.000000	2.23516e-20	1.000000
rad45	1.04567e-20	1.000000	1.47053e-20	1.000000
rad21	4.05034e-21	1.000000	5.69598e-21	1.000000
rad22	3.35977e-21	1.000000	4.72483e-21	1.000000
rad36	2.03104e-21	1.000000	2.85624e-21	1.000000
rad33	1.89985e-21	1.000000	2.67174e-21	1.000000
rad15	1.57396e-21	1.000000	2.21345e-21	1.000000
rad20	8.22772e-22	1.000000	1.15706e-21	1.000000
rad26	5.53805e-22	1.000000	7.78814e-22	1.000000
rad12	4.82938e-22	1.000000	6.79149e-22	1.000000
rad25	4.56474e-22	1.000000	6.41938e-22	1.000000
rad24	2.85392e-22	1.000000	4.01344e-22	1.000000
rad10	2.30268e-22	1.000000	3.23825e-22	1.000000
rad18	1.70015e-22	1.000000	2.39092e-22	1.000000
rad8	1.34844e-22	1.000000	1.89630e-22	1.000000
rad47	1.03449e-22	1.000000	1.45480e-22	1.000000
rad3	4.92943e-23	1.000000	6.93222e-23	1.000000
rad14	3.16322e-23	1.000000	4.44841e-23	1.000000
rad4	2.97106e-23	1.000000	4.17819e-23	1.000000
rad2	2.54641e-23	1.000000	3.58101e-23	1.000000
rad5	7.37395e-24	1.000000	1.03699e-23	1.000000
rad1	6.57434e-24	1.000000	9.24542e-24	1.000000
rad27	1.40640e-24	1.000000	1.97781e-24	1.000000

0.100000000E-08 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.22129e-11 (1.00)	5.87536e-11 (1.00)
Formation of rad11	1.42538e-11 (0.173)	5.21849e-12 (0.0888)
Formation of rad6	2.27549e-11 (0.277)	8.33083e-12 (0.142)
H-abstraction	4.52043e-11 (0.550)	4.52043e-11 (0.769)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.549844	0.549844	0.769388	0.769388
Phenyl+Allene	0.285349	0.835192	0.00000	0.769388
PhCH2CCH+H	0.0853725	0.920565	0.119460	0.888848
PhCHCCH2+H	0.0381839	0.958749	0.0534299	0.942278
C2H2+PhCH2	0.0128678	0.971617	0.0180057	0.960283

PhCCH+CH3	0.0101926	0.981809	0.0142623	0.974546
PAH7+H	0.00428274	0.986092	0.00599276	0.980539
Indene+H	0.00340695	0.989499	0.00476729	0.985306
PhcycC3H3_A+H	0.00292038	0.992419	0.00408643	0.989392
Ph+MeAc	0.00285191	0.995271	0.00399061	0.993383
rad19syn	0.00176005	0.997031	0.00246280	0.995846
rad54	0.000783510	0.997815	0.00109635	0.996942
rad39	0.000435199	0.998250	0.000608967	0.997551
rad19anti	0.000232598	0.998483	0.000325470	0.997876
PAH1+H	0.000210285	0.998693	0.000294248	0.998171
PAH9+H	0.000189946	0.998883	0.000265788	0.998436
rad38	0.000125074	0.999008	0.000175014	0.998611
PhCCCH3+H	0.000104499	0.999112	0.000146224	0.998758
rad56	0.000102496	0.999215	0.000143420	0.998901
rad50	9.64743e-05	0.999311	0.000134995	0.999036
rad55	8.51952e-05	0.999397	0.000119212	0.999155
rad53	6.86880e-05	0.999465	9.61137e-05	0.999251
rad70	6.67834e-05	0.999532	9.34486e-05	0.999345
PAH3+H	6.43467e-05	0.999596	9.00394e-05	0.999435
PAH10+CH3	5.80427e-05	0.999654	8.12183e-05	0.999516
rad51	5.49240e-05	0.999709	7.68541e-05	0.999593
rad46	4.80263e-05	0.999757	6.72021e-05	0.999660
rad67	4.40669e-05	0.999802	6.16619e-05	0.999722
rad35	4.33473e-05	0.999845	6.06552e-05	0.999783
PAH8+H	3.16111e-05	0.999876	4.42329e-05	0.999827
rad34	2.50786e-05	0.999902	3.50921e-05	0.999862
rad71	1.47743e-05	0.999916	2.06734e-05	0.999883
rad52	1.16170e-05	0.999928	1.62555e-05	0.999899
rad30	1.10774e-05	0.999939	1.55003e-05	0.999914
rad62	1.06705e-05	0.999950	1.49310e-05	0.999929
rad37	9.29424e-06	0.999959	1.30053e-05	0.999942
rad73	6.33743e-06	0.999965	8.86788e-06	0.999951
rad64	5.77649e-06	0.999971	8.08292e-06	0.999959
rad68syn	5.15348e-06	0.999976	7.21118e-06	0.999966
rad59	4.82486e-06	0.999981	6.75136e-06	0.999973
rad68anti	3.28964e-06	0.999984	4.60314e-06	0.999978
rad40syn	2.77792e-06	0.999987	3.88709e-06	0.999982
rad60syn	2.50929e-06	0.999990	3.51119e-06	0.999985
rad40anti	1.99952e-06	0.999992	2.79788e-06	0.999988
rad42	1.90464e-06	0.999994	2.66512e-06	0.999991
rad60anti	1.83422e-06	0.999995	2.56658e-06	0.999993
rad72	1.57365e-06	0.999997	2.20197e-06	0.999995
rad65	1.29208e-06	0.999998	1.80798e-06	0.999997
rad58	1.27682e-06	1.000000	1.78663e-06	0.999999
rad43	3.85029e-07	1.000000	5.38764e-07	1.000000
rad61	3.23853e-07	1.000000	4.53160e-07	1.000000
rad41	7.10639e-08	1.000000	9.94383e-08	1.000000
rad6	1.95840e-18	1.000000	2.74034e-18	1.000000
rad7	8.03344e-20	1.000000	1.12410e-19	1.000000
rad11	5.21686e-20	1.000000	7.29985e-20	1.000000
rad23	1.29076e-20	1.000000	1.80613e-20	1.000000
rad13	1.18525e-20	1.000000	1.65850e-20	1.000000
rad9	9.81804e-21	1.000000	1.37382e-20	1.000000
rad28	7.06560e-21	1.000000	9.88679e-21	1.000000
rad45	5.22978e-21	1.000000	7.31793e-21	1.000000
rad21	2.44315e-21	1.000000	3.41865e-21	1.000000
rad22	1.58051e-21	1.000000	2.21157e-21	1.000000
rad33	1.20474e-21	1.000000	1.68578e-21	1.000000
rad36	1.02554e-21	1.000000	1.43502e-21	1.000000
rad15	8.20328e-22	1.000000	1.14787e-21	1.000000
rad20	5.20430e-22	1.000000	7.28226e-22	1.000000
rad12	3.09374e-22	1.000000	4.32901e-22	1.000000
rad25	2.89947e-22	1.000000	4.05717e-22	1.000000
rad26	2.68043e-22	1.000000	3.75068e-22	1.000000
rad24	1.82403e-22	1.000000	2.55233e-22	1.000000
rad10	1.19974e-22	1.000000	1.67878e-22	1.000000
rad8	1.19193e-22	1.000000	1.66784e-22	1.000000
rad47	1.15640e-22	1.000000	1.61813e-22	1.000000
rad18	9.40390e-23	1.000000	1.31587e-22	1.000000
rad3	2.81077e-23	1.000000	3.93305e-23	1.000000
rad14	2.29549e-23	1.000000	3.21202e-23	1.000000
rad4	1.70208e-23	1.000000	2.38167e-23	1.000000
rad2	1.27269e-23	1.000000	1.78086e-23	1.000000
rad5	5.53994e-24	1.000000	7.75192e-24	1.000000
rad1	3.09113e-24	1.000000	4.32537e-24	1.000000
rad27	9.84680e-25	1.000000	1.37785e-24	1.000000

0.100000000E-08 Pa, 3500.00000 K

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Rate constant | True (fraction) | Effective (fraction)

Total	1.05713e-10 (1.00)	7.59650e-11 (1.00)
Formation of rad11	1.77412e-11 (0.168)	6.37264e-12 (0.0839)
Formation of rad6	2.86822e-11 (0.271)	1.03027e-11 (0.136)
H-abstraction	5.92897e-11 (0.561)	5.92897e-11 (0.780)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.560855	0.560855	0.780487	0.780487
Phenyl+Allene	0.281404	0.842259	0.00000	0.780487
PhCH2CCH+H	0.0826656	0.924925	0.115037	0.895524
PhCHCCH2+H	0.0360585	0.960983	0.0501791	0.945703
C2H2+PhCH2	0.0122593	0.973242	0.0170600	0.962764
PhCCH+CH3	0.00927084	0.982513	0.0129013	0.975665
PAH7+H	0.00395025	0.986463	0.00549717	0.981162
PhcycC3H3_A+H	0.00334801	0.989811	0.00465910	0.985821
Ph+MeAc	0.00276398	0.992575	0.00384635	0.989667
Indene+H	0.00257590	0.995151	0.00358462	0.993252
rad19syn	0.00187235	0.997024	0.00260557	0.995858
rad54	0.000820548	0.997844	0.00114187	0.996999
rad39	0.000383055	0.998227	0.000533059	0.997533
PAH1+H	0.000234590	0.998462	0.000326455	0.997859
rad19anti	0.000198628	0.998661	0.000276411	0.998135
PAH9+H	0.000165224	0.998826	0.000229927	0.998365
rad56	0.000126873	0.998953	0.000176556	0.998542
rad38	0.000111229	0.999064	0.000154787	0.998697
rad50	9.85613e-05	0.999162	0.000137158	0.998834
PhCCCH3+H	9.42424e-05	0.999257	0.000131148	0.998965
rad55	9.15803e-05	0.999348	0.000127443	0.999092
rad53	8.16793e-05	0.999430	0.000113665	0.999206
rad70	7.02694e-05	0.999500	9.77871e-05	0.999304
PAH3+H	6.99220e-05	0.999570	9.73035e-05	0.999401
rad51	5.98507e-05	0.999630	8.32882e-05	0.999484
PAH10+CH3	5.76128e-05	0.999688	8.01742e-05	0.999565
rad67	4.43734e-05	0.999732	6.17501e-05	0.999626
rad46	4.41956e-05	0.999776	6.15029e-05	0.999688
PAH8+H	4.26935e-05	0.999819	5.94123e-05	0.999747
rad35	4.02805e-05	0.999859	5.60544e-05	0.999803
rad34	2.74951e-05	0.999887	3.82622e-05	0.999842
rad71	2.01281e-05	0.999907	2.80103e-05	0.999870
rad62	1.37116e-05	0.999920	1.90811e-05	0.999889
rad52	1.21501e-05	0.999933	1.69080e-05	0.999906
rad30	1.02915e-05	0.999943	1.43216e-05	0.999920
rad73	8.16310e-06	0.999951	1.13598e-05	0.999931
rad37	7.96636e-06	0.999959	1.10860e-05	0.999942
rad64	6.47621e-06	0.999966	9.01228e-06	0.999951
rad68syn	6.33612e-06	0.999972	8.81737e-06	0.999960
rad59	5.10458e-06	0.999977	7.10355e-06	0.999967
rad68anti	4.04059e-06	0.999981	5.62289e-06	0.999973
rad40syn	3.59895e-06	0.999985	5.00830e-06	0.999978
rad42	2.66321e-06	0.999987	3.70612e-06	0.999982
rad40anti	2.63316e-06	0.999990	3.66431e-06	0.999985
rad60syn	2.53258e-06	0.999992	3.52435e-06	0.999989
rad72	2.38441e-06	0.999995	3.31814e-06	0.999992
rad60anti	1.86455e-06	0.999997	2.59471e-06	0.999995
rad58	1.49815e-06	0.999998	2.08483e-06	0.999997
rad65	1.37925e-06	1.000000	1.91936e-06	0.999999
rad43	4.42452e-07	1.000000	6.15716e-07	0.999999
rad61	3.67258e-07	1.000000	5.11077e-07	1.000000
rad41	8.98821e-08	1.000000	1.25080e-07	1.000000
rad6	9.66502e-19	1.000000	1.34499e-18	1.000000
rad7	4.66091e-20	1.000000	6.48612e-20	1.000000
rad11	2.99097e-20	1.000000	4.16225e-20	1.000000
rad13	7.28305e-21	1.000000	1.01351e-20	1.000000
rad23	5.79101e-21	1.000000	8.05880e-21	1.000000
rad9	5.08847e-21	1.000000	7.08109e-21	1.000000
rad28	3.44704e-21	1.000000	4.79691e-21	1.000000
rad45	2.76668e-21	1.000000	3.85012e-21	1.000000
rad21	1.56206e-21	1.000000	2.17377e-21	1.000000
rad22	8.11694e-22	1.000000	1.12955e-21	1.000000
rad33	7.96109e-22	1.000000	1.10787e-21	1.000000
rad36	5.46534e-22	1.000000	7.60555e-22	1.000000
rad15	4.52557e-22	1.000000	6.29778e-22	1.000000
rad20	3.56498e-22	1.000000	4.96104e-22	1.000000
rad12	2.06000e-22	1.000000	2.86671e-22	1.000000
rad25	1.93599e-22	1.000000	2.69413e-22	1.000000
rad26	1.38427e-22	1.000000	1.92635e-22	1.000000
rad47	1.23125e-22	1.000000	1.71341e-22	1.000000
rad24	1.20836e-22	1.000000	1.68155e-22	1.000000
rad8	1.05361e-22	1.000000	1.46621e-22	1.000000

rad10	6.65090e-23	1.00000	9.25539e-23	1.00000
rad18	5.60033e-23	1.00000	7.79343e-23	1.00000
rad14	1.81848e-23	1.00000	2.53061e-23	1.00000
rad3	1.71733e-23	1.00000	2.38984e-23	1.00000
rad4	1.05774e-23	1.00000	1.47195e-23	1.00000
rad2	7.00832e-24	1.00000	9.75278e-24	1.00000
rad5	4.29350e-24	1.00000	5.97483e-24	1.00000
rad1	1.62951e-24	1.00000	2.26761e-24	1.00000
rad27	7.31080e-25	1.00000	1.01737e-24	1.00000

0.100000000E-08 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.33217e-10 (1.00)	9.62711e-11 (1.00)
Formation of rad11	2.17064e-11 (0.163)	7.68279e-12 (0.0798)
Formation of rad6	3.54800e-11 (0.266)	1.25578e-11 (0.130)
H-abstraction	7.60305e-11 (0.571)	7.60305e-11 (0.790)

species	PYtrue	Cumul	PYeffective	Cumul
Benzene+2-propynyl	0.570727	0.570727	0.789754	0.789754
Phenyl+Allene	0.277336	0.848063	0.00000	0.789754
PhCH2CCH+H	0.0801946	0.928257	0.110971	0.900725
PhCHCCH2+H	0.0343186	0.962576	0.0474891	0.948214
C2H2+PhCH2	0.0118838	0.974460	0.0164445	0.964658
PhCCH+CH3	0.00852836	0.982988	0.0118013	0.976459
PhcycC3H3_A+H	0.00372851	0.986717	0.00515939	0.981619
PAH7+H	0.00365085	0.990368	0.00505194	0.986671
Ph+MeAc	0.00270113	0.993069	0.00373773	0.990408
Indene+H	0.00199900	0.995068	0.00276616	0.993175
rad19syn	0.00195356	0.997021	0.00270328	0.995878
rad54	0.000841040	0.997862	0.00116381	0.997042
rad39	0.000340475	0.998203	0.000471138	0.997513
PAH1+H	0.000258935	0.998462	0.000358305	0.997871
rad19anti	0.000171610	0.998633	0.000237469	0.998109
rad56	0.000150421	0.998784	0.000208148	0.998317
PAH9+H	0.000142296	0.998926	0.000196904	0.998514
rad50	9.78214e-05	0.999024	0.000135362	0.998649
rad38	9.76287e-05	0.999121	0.000135095	0.998784
rad55	9.60227e-05	0.999217	0.000132873	0.998917
rad53	9.35446e-05	0.999311	0.000129444	0.999046
PhCCCH3+H	8.63448e-05	0.999397	0.000119481	0.999166
PAH3+H	7.46029e-05	0.999472	0.000103233	0.999269
rad70	7.27716e-05	0.999545	0.000100699	0.999370
rad51	6.27266e-05	0.999607	8.67994e-05	0.999457
PAH10+CH3	5.64592e-05	0.999664	7.81267e-05	0.999535
PAH8+H	5.49581e-05	0.999719	7.60493e-05	0.999611
rad67	4.41361e-05	0.999763	6.10741e-05	0.999672
rad46	4.00102e-05	0.999803	5.53649e-05	0.999727
rad35	3.73501e-05	0.999840	5.16839e-05	0.999779
rad34	2.95155e-05	0.999870	4.08426e-05	0.999820
rad71	2.56704e-05	0.999896	3.55219e-05	0.999855
rad62	1.78765e-05	0.999913	2.47369e-05	0.999880
rad52	1.22817e-05	0.999926	1.69950e-05	0.999897
rad73	9.90830e-06	0.999936	1.37108e-05	0.999911
rad30	9.58077e-06	0.999945	1.32576e-05	0.999924
rad68syn	7.51159e-06	0.999953	1.03943e-05	0.999934
rad64	7.08717e-06	0.999960	9.80700e-06	0.999944
rad37	6.84827e-06	0.999967	9.47639e-06	0.999954
rad59	5.31873e-06	0.999972	7.35989e-06	0.999961
rad68anti	4.78626e-06	0.999977	6.62308e-06	0.999968
rad40syn	4.46912e-06	0.999981	6.18422e-06	0.999974
rad42	3.72271e-06	0.999985	5.15138e-06	0.999979
rad72	3.33614e-06	0.999988	4.61643e-06	0.999984
rad40anti	3.31727e-06	0.999992	4.59032e-06	0.999988
rad60syn	2.53369e-06	0.999994	3.50604e-06	0.999992
rad60anti	1.87710e-06	0.999996	2.59748e-06	0.999994
rad58	1.70809e-06	0.999998	2.36361e-06	0.999997
rad65	1.42131e-06	0.999999	1.96676e-06	0.999999
rad43	5.13732e-07	1.000000	7.10883e-07	0.999999
rad61	4.03889e-07	1.00000	5.58888e-07	1.000000
rad41	1.13553e-07	1.00000	1.57130e-07	1.00000
rad6	5.17527e-19	1.00000	7.16135e-19	1.00000
rad7	2.85678e-20	1.00000	3.95313e-20	1.00000
rad11	1.83381e-20	1.00000	2.53756e-20	1.00000
rad13	4.71985e-21	1.00000	6.53121e-21	1.00000
rad9	2.80526e-21	1.00000	3.88183e-21	1.00000
rad23	2.76720e-21	1.00000	3.82917e-21	1.00000
rad28	1.81765e-21	1.00000	2.51521e-21	1.00000

rad45	1.53396e-21	1.00000	2.12264e-21	1.00000
rad21	1.04834e-21	1.00000	1.45067e-21	1.00000
rad33	5.44417e-22	1.00000	7.53345e-22	1.00000
rad22	4.48976e-22	1.00000	6.21279e-22	1.00000
rad36	3.04624e-22	1.00000	4.21528e-22	1.00000
rad15	2.63078e-22	1.00000	3.64039e-22	1.00000
rad20	2.59386e-22	1.00000	3.58930e-22	1.00000
rad12	1.42144e-22	1.00000	1.96695e-22	1.00000
rad25	1.34705e-22	1.00000	1.86401e-22	1.00000
rad47	1.26179e-22	1.00000	1.74602e-22	1.00000
rad8	9.29496e-23	1.00000	1.28621e-22	1.00000
rad24	8.25899e-23	1.00000	1.14285e-22	1.00000
rad26	7.57542e-23	1.00000	1.04827e-22	1.00000
rad10	3.88401e-23	1.00000	5.37456e-23	1.00000
rad18	3.53332e-23	1.00000	4.88931e-23	1.00000
rad14	1.56337e-23	1.00000	2.16335e-23	1.00000
rad3	1.10935e-23	1.00000	1.53508e-23	1.00000
rad4	7.01895e-24	1.00000	9.71258e-24	1.00000
rad2	4.14289e-24	1.00000	5.73280e-24	1.00000
rad5	3.42483e-24	1.00000	4.73917e-24	1.00000
rad1	9.41975e-25	1.00000	1.30347e-24	1.00000
rad27	5.73762e-25	1.00000	7.93956e-25	1.00000

0.100000000E-08 Pa, 4000.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.65008e-10	(1.00)	1.19912e-10	(1.00)
Formation of rad11	2.61707e-11	(0.159)	9.15556e-12	(0.0764)
Formation of rad6	4.31906e-11	(0.262)	1.51098e-11	(0.126)
H-abstraction	9.56470e-11	(0.580)	9.56470e-11	(0.798)

species	PYtrue	Cumul	PYeffective	Cumul

Benzene+2-propynyl	0.579650	0.579650	0.797641	0.797641
Phenyl+Allene	0.273295	0.852945	0.000000	0.797641
PhCH2CCH+H	0.0779435	0.930888	0.107256	0.904897
PhCHCCH2+H	0.0328766	0.963765	0.0452408	0.950138
C2H2+PhCH2	0.0116508	0.975415	0.0160323	0.966170
PhCCH+CH3	0.00792125	0.983337	0.0109003	0.977070
PhcycC3H3_A+H	0.00405636	0.987393	0.00558187	0.982652
PAH7+H	0.00338058	0.990774	0.00465193	0.987304
Ph+MeAc	0.00265534	0.993429	0.00365394	0.990958
rad19syn	0.00200699	0.995436	0.00276178	0.993720
Indene+H	0.00158840	0.997024	0.00218576	0.995906
rad54	0.000847468	0.997872	0.00116618	0.997072
rad39	0.000304994	0.998177	0.000419695	0.997491
PAH1+H	0.000284127	0.998461	0.000390980	0.997882
rad56	0.000172242	0.998633	0.000237017	0.998119
rad19anti	0.000149971	0.998783	0.000206372	0.998326
PAH9+H	0.000121736	0.998905	0.000167518	0.998493
rad53	0.000103935	0.999009	0.000143023	0.998636
rad55	9.87033e-05	0.999108	0.000135823	0.998772
rad50	9.49261e-05	0.999203	0.000130625	0.998903
rad38	8.48536e-05	0.999287	0.000116765	0.999020
PhCCCH3+H	8.02193e-05	0.999368	0.000110388	0.999130
PAH3+H	7.84218e-05	0.999446	0.000107914	0.999238
rad70	7.43978e-05	0.999520	0.000102377	0.999340
PAH8+H	6.80299e-05	0.999588	9.36140e-05	0.999434
rad51	6.37407e-05	0.999652	8.77122e-05	0.999522
PAH10+CH3	5.48776e-05	0.999707	7.55158e-05	0.999597
rad67	4.35168e-05	0.999751	5.98821e-05	0.999657
rad46	3.57792e-05	0.999786	4.92350e-05	0.999706
rad35	3.46400e-05	0.999821	4.76673e-05	0.999754
rad34	3.11445e-05	0.999852	4.28572e-05	0.999797
rad71	3.10563e-05	0.999883	4.27358e-05	0.999839
rad62	2.32398e-05	0.999906	3.19798e-05	0.999871
rad52	1.20851e-05	0.999919	1.66300e-05	0.999888
rad73	1.14710e-05	0.999930	1.57849e-05	0.999904
rad30	8.93299e-06	0.999939	1.22925e-05	0.999916
rad68syn	8.64434e-06	0.999948	1.18952e-05	0.999928
rad64	7.61305e-06	0.999955	1.04761e-05	0.999939
rad37	5.91727e-06	0.999961	8.14263e-06	0.999947
rad68anti	5.50424e-06	0.999967	7.57424e-06	0.999954
rad59	5.47385e-06	0.999972	7.53243e-06	0.999962
rad40syn	5.36170e-06	0.999977	7.37810e-06	0.999969
rad42	5.12142e-06	0.999983	7.04750e-06	0.999976
rad72	4.37871e-06	0.999987	6.02543e-06	0.999982
rad40anti	4.03125e-06	0.999991	5.54731e-06	0.999988
rad60syn	2.51669e-06	0.999993	3.46315e-06	0.999991

rad58	1.90267e-06	0.999995	2.61822e-06	0.999994
rad60anti	1.87487e-06	0.999997	2.57996e-06	0.999996
rad65	1.42564e-06	0.999999	1.96179e-06	0.999998
rad43	6.01849e-07	0.999999	8.28191e-07	0.999999
rad61	4.34037e-07	1.000000	5.97267e-07	1.000000
rad41	1.43043e-07	1.000000	1.96838e-07	1.000000
rad6	2.96842e-19	1.000000	4.08478e-19	1.000000
rad7	1.83267e-20	1.000000	2.52190e-20	1.000000
rad11	1.18911e-20	1.000000	1.63631e-20	1.000000
rad13	3.19990e-21	1.000000	4.40329e-21	1.000000
rad9	1.63562e-21	1.000000	2.25074e-21	1.000000
rad23	1.39587e-21	1.000000	1.92083e-21	1.000000
rad28	1.02381e-21	1.000000	1.40884e-21	1.000000
rad45	8.85111e-22	1.000000	1.21798e-21	1.000000
rad21	7.32814e-22	1.000000	1.00841e-21	1.000000
rad33	3.83235e-22	1.000000	5.27360e-22	1.000000
rad22	2.64530e-22	1.000000	3.64014e-22	1.000000
rad20	1.97582e-22	1.000000	2.71888e-22	1.000000
rad36	1.76356e-22	1.000000	2.42679e-22	1.000000
rad15	1.60340e-22	1.000000	2.20640e-22	1.000000
rad47	1.25502e-22	1.000000	1.72700e-22	1.000000
rad12	1.01281e-22	1.000000	1.39370e-22	1.000000
rad25	9.69849e-23	1.000000	1.33459e-22	1.000000
rad8	8.17489e-23	1.000000	1.12493e-22	1.000000
rad24	5.80458e-23	1.000000	7.98754e-23	1.000000
rad26	4.36727e-23	1.000000	6.00970e-23	1.000000
rad10	2.37351e-23	1.000000	3.26612e-23	1.000000
rad18	2.33495e-23	1.000000	3.21308e-23	1.000000
rad14	1.43353e-23	1.000000	1.97264e-23	1.000000
rad3	7.50494e-24	1.000000	1.03274e-23	1.000000
rad4	4.91179e-24	1.000000	6.75902e-24	1.000000
rad5	2.80272e-24	1.000000	3.85676e-24	1.000000
rad2	2.58860e-24	1.000000	3.56211e-24	1.000000
rad1	5.86994e-25	1.000000	8.07751e-25	1.000000
rad27	4.74794e-25	1.000000	6.53351e-25	1.000000

Tabulated effective product yields for the major products

- The re-dissociation fractions listed below are the yields prior to factoring out re-dissociation.
- N/A denotes calculations using a mechanism that did not include the product/intermediate. This is mainly in low-temperature reaction conditions where the energy ceiling used was below the ground state energy of some of the energetically higher-lying isomers and transition states.

rad11

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.00000	0.999998	0.999943	0.999581	0.998415
1.00000e+07	0.999998	0.999993	0.999936	0.999572	0.998404
1.00000e+06	0.999976	0.999949	0.999870	0.999484	0.998293
100000.	0.999756	0.999505	0.999206	0.998598	0.997181
10000.0	0.997566	0.995082	0.992593	0.989791	0.986152
1000.00	0.975987	0.952152	0.929351	0.906790	0.883755
100.000	0.788831	0.626667	0.505304	0.410969	0.335939
10.0000	0.142223	0.0351948	0.0122885	0.00524839	0.00256955
1.00000	0.000279138	7.67692e-05	6.08469e-05	5.55014e-05	5.24702e-05
0.100000	4.40248e-05	3.79513e-05	3.50807e-05	3.32745e-05	3.19821e-05
0.0100000	2.78177e-05	2.44151e-05	2.26039e-05	2.13256e-05	2.02987e-05
0.00100000	1.69260e-05	1.29850e-05	1.04352e-05	8.52758e-06	7.02083e-06
0.000100000	3.43061e-06	1.08432e-06	4.59742e-07	2.28050e-07	1.24971e-07
1.00000e-05	1.95699e-08	2.25630e-09	6.27593e-10	2.48929e-10	1.19553e-10
1.00000e-06	1.57699e-11	1.92578e-12	5.93493e-13	2.58016e-13	1.34171e-13
1.00000e-07	2.37711e-14	3.95988e-15	1.45746e-15	7.17403e-16	4.10545e-16
1.00000e-08	9.94220e-17	2.23504e-17	9.71483e-18	5.36749e-18	3.35713e-18
1.00000e-09	1.09331e-18	3.27402e-19	1.67074e-19	1.03216e-19	7.03538e-20

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	0.995911	0.991707	0.985676	0.977887	0.968537
1.00000e+07	0.995897	0.991691	0.985657	0.977867	0.968513
1.00000e+06	0.995763	0.991534	0.985476	0.977660	0.968281
100000.	0.994423	0.989958	0.983660	0.975599	0.965965
10000.0	0.981136	0.974373	0.965733	0.955275	0.943180
1000.00	0.859660	0.834150	0.807106	0.778593	0.748778
100.000	0.275376	0.226003	0.185497	0.152143	0.124633
10.0000	0.00139404	0.000822107	0.000521081	0.000352521	0.000253288
1.00000	5.03653e-05	4.87605e-05	4.74711e-05	4.63986e-05	4.54826e-05
0.100000	3.09857e-05	3.01776e-05	2.94968e-05	2.89046e-05	2.83739e-05
0.0100000	1.94087e-05	1.85968e-05	1.78278e-05	1.70784e-05	1.63329e-05
0.00100000	5.79949e-06	4.79513e-06	3.96230e-06	3.26880e-06	2.69054e-06
0.000100000	7.34236e-08	4.54132e-08	2.92113e-08	1.93741e-08	1.31672e-08
1.00000e-05	6.47242e-11	3.80240e-11	2.36910e-11	1.54237e-11	1.03864e-11
1.00000e-06	7.78812e-14	4.86819e-14	3.20789e-14	2.19813e-14	1.55186e-14
1.00000e-07	2.57689e-16	1.72123e-16	1.20171e-16	8.66885e-17	6.41117e-17
1.00000e-08	2.26574e-18	1.60948e-18	1.18566e-18	8.97186e-19	6.92852e-19
1.00000e-09	5.09360e-20	3.84045e-20	2.98012e-20	2.36188e-20	1.90198e-20

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	0.957869	0.946141	0.933588	0.920423	0.906828
1.00000e+07	0.957843	0.946112	0.933557	0.920389	0.906790
1.00000e+06	0.957585	0.945825	0.933241	0.920042	0.906410
100000.	0.955004	0.942967	0.930093	0.916586	0.902625
10000.0	0.929676	0.914998	0.899360	0.882946	0.865910
1000.00	0.717877	0.686112	0.653690	0.620808	0.587644
100.000	0.101939	0.0832316	0.0678317	0.0551768	0.0447986
10.0000	0.000192389	0.000153668	0.000128272	0.000111140	9.92729e-05
1.00000	4.46823e-05	4.39684e-05	4.33186e-05	4.27162e-05	4.21481e-05
0.100000	2.78847e-05	2.74212e-05	2.69705e-05	2.65218e-05	2.60657e-05
0.0100000	1.55806e-05	1.48147e-05	1.40318e-05	1.32315e-05	1.24159e-05
0.00100000	2.20872e-06	1.80806e-06	1.47583e-06	1.20124e-06	9.75042e-07
0.000100000	9.12775e-09	6.43158e-09	4.59391e-09	3.31925e-09	2.42188e-09
1.00000e-05	7.18290e-12	5.07477e-12	3.64853e-12	2.66137e-12	1.96502e-12
1.00000e-06	1.12150e-14	8.25753e-15	6.17290e-15	4.67268e-15	3.57431e-15
1.00000e-07	4.83444e-17	3.70230e-17	2.87104e-17	2.24954e-17	1.77785e-17
1.00000e-08	5.43582e-19	4.31859e-19	3.46599e-19	2.80500e-19	2.28596e-19
1.00000e-09	1.55061e-20	1.27651e-20	1.05912e-20	8.84425e-21	7.42506e-21

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	0.892956	0.878943	0.864900	0.850923	0.837094

1.00000e+07	0.892915	0.878897	0.864851	0.850868	0.837035
1.00000e+06	0.892500	0.878444	0.864355	0.850327	0.836443
100000.	0.888361	0.873924	0.859420	0.844941	0.830560
10000.0	0.848375	0.830441	0.812184	0.793662	0.774917
1000.00	0.554368	0.521145	0.488138	0.455505	0.423410
100.000	0.0363056	0.0293710	0.0237217	0.0191295	0.0154050
10.0000	9.08416e-05	8.46978e-05	8.01054e-05	7.65829e-05	7.38095e-05
1.00000	4.16040e-05	4.10763e-05	4.05588e-05	4.00469e-05	3.95368e-05
0.100000	2.55946e-05	2.51015e-05	2.45808e-05	2.40271e-05	2.34366e-05
0.0100000	1.15893e-05	1.07577e-05	9.92803e-06	9.10809e-06	8.30576e-06
0.00100000	7.89363e-07	6.37452e-07	5.13570e-07	4.12855e-07	3.31214e-07
0.000100000	1.78208e-09	1.32092e-09	9.85357e-10	7.39180e-10	5.57267e-10
1.00000e-05	1.46590e-12	1.10325e-12	8.36682e-13	6.38761e-13	4.90526e-13
1.00000e-06	2.75847e-15	2.14507e-15	1.67908e-15	1.32191e-15	1.04604e-15
1.00000e-07	1.41536e-17	1.13388e-17	9.13338e-18	7.39254e-18	6.00955e-18
1.00000e-08	1.87397e-19	1.54406e-19	1.27786e-19	1.06170e-19	8.85249e-20
1.00000e-09	6.26196e-21	5.30177e-21	4.50425e-21	3.83843e-21	3.28018e-21

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	0.823480	0.810139	0.797114	0.784443	0.772152
1.00000e+07	0.823416	0.810068	0.797037	0.784357	0.772057
1.00000e+06	0.822768	0.809360	0.796260	0.783506	0.771120
100000.	0.816340	0.802327	0.788560	0.775064	0.761856
10000.0	0.755975	0.736852	0.717550	0.698066	0.678389
1000.00	0.392007	0.361454	0.331893	0.303464	0.276287
100.000	0.0123907	0.00995616	0.00799372	0.00641472	0.00514645
10.0000	7.15684e-05	6.97112e-05	6.81346e-05	6.67662e-05	6.55542e-05
1.00000	3.90252e-05	3.85092e-05	3.79861e-05	3.74530e-05	3.69068e-05
0.100000	2.28060e-05	2.21328e-05	2.14160e-05	2.06554e-05	1.98524e-05
0.0100000	7.52854e-06	6.78321e-06	6.07559e-06	5.41029e-06	4.79069e-06
0.00100000	2.65214e-07	2.11996e-07	1.69185e-07	1.34823e-07	1.07298e-07
0.000100000	4.21988e-10	3.20822e-10	2.44787e-10	1.87387e-10	1.43878e-10
1.00000e-05	3.78656e-13	2.93669e-13	2.28722e-13	1.78833e-13	1.40333e-13
1.00000e-06	8.31572e-16	6.63873e-16	5.32101e-16	4.28120e-16	3.45779e-16
1.00000e-07	4.90492e-18	4.01860e-18	3.30476e-18	2.72817e-18	2.26147e-18
1.00000e-08	7.40516e-20	6.21374e-20	5.22963e-20	4.41470e-20	3.73801e-20
1.00000e-09	2.81040e-21	2.41383e-21	2.07836e-21	1.79359e-21	1.55155e-21

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	0.760260	0.748781	0.737722	0.711125	0.602501
1.00000e+07	0.760156	0.748667	0.737596	0.710860	0.601771
1.00000e+06	0.759125	0.747530	0.736340	0.708217	0.594618
100000.	0.748943	0.736327	0.724001	0.683057	0.534117
10000.0	0.658505	0.638397	0.618051	0.506807	0.273607
1000.00	0.250465	0.226082	0.203204	0.107329	0.0260238
100.000	0.00412936	0.00331491	0.00266355	0.00135750	0.000259294
10.0000	6.44617e-05	6.34610e-05	6.25322e-05	5.80837e-05	5.00645e-05
1.00000	3.63444e-05	3.57622e-05	3.51563e-05	3.17809e-05	2.29723e-05
0.100000	1.90098e-05	1.81311e-05	1.72220e-05	1.37242e-05	5.82138e-06
0.0100000	4.21886e-06	3.69571e-06	3.22103e-06	2.02104e-06	4.11600e-07
0.00100000	8.52913e-08	6.77262e-08	5.37284e-08	3.76446e-08	4.63403e-09
0.000100000	1.10781e-10	8.55205e-11	6.61831e-11	1.47498e-10	1.86086e-11
1.00000e-05	1.10501e-13	8.73000e-14	6.91975e-14	6.77191e-13	1.10585e-13
1.00000e-06	2.80387e-16	2.28349e-16	1.86888e-16	6.12197e-15	1.37500e-15
1.00000e-07	1.88334e-18	1.57719e-18	1.32997e-18	1.17177e-16	3.35927e-17
1.00000e-08	3.17609e-20	2.70826e-20	2.31930e-20	4.69528e-18	1.66410e-18
1.00000e-09	1.34550e-21	1.16986e-21	1.02004e-21	3.02254e-19	1.28460e-19

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	0.523753	0.465187	0.419439	0.379538	0.329986
1.00000e+07	0.521653	0.459214	0.402912	0.338445	0.252863
1.00000e+06	0.502175	0.411605	0.308774	0.203720	0.118965
100000.	0.378684	0.226355	0.112283	0.0512526	0.0241881
10000.0	0.112209	0.0369877	0.0112304	0.00405342	0.00203164
1000.00	0.00531374	0.00116643	0.000387531	0.000239207	0.000215738
100.000	0.000111502	8.05209e-05	6.23332e-05	4.89001e-05	4.01903e-05
10.0000	3.96814e-05	2.62701e-05	1.47987e-05	8.21169e-06	4.84290e-06
1.00000	1.24044e-05	5.13560e-06	1.85305e-06	7.11734e-07	3.09407e-07
0.100000	1.73543e-06	4.26517e-07	1.01732e-07	2.89494e-08	1.02787e-08
0.0100000	6.90180e-08	1.12797e-08	2.05717e-09	5.12291e-10	1.99643e-10
0.00100000	5.98093e-10	9.09240e-11	1.78030e-11	5.59248e-12	5.23891e-12
0.000100000	2.99928e-12	7.48417e-13	2.47804e-13	1.42986e-13	3.50717e-13
1.00000e-05	3.39160e-14	1.92878e-14	9.92018e-15	9.29450e-15	3.26447e-14
1.00000e-06	8.22050e-16	6.92287e-16	4.70022e-16	7.52357e-16	3.20002e-15
1.00000e-07	2.08034e-17	1.91958e-17	2.34163e-17	6.75747e-17	3.17718e-16
1.00000e-08	9.90536e-19	1.03253e-18	1.92784e-18	6.61801e-18	3.17260e-17
1.00000e-09	8.49054e-20	9.51619e-20	1.89099e-19	6.60268e-19	3.17180e-18

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	0.258945	0.199468	0.169139	0.164973	0.175172
1.00000e+07	0.174585	0.131169	0.111028	0.0993053	0.0926863
1.00000e+06	0.0743746	0.0579158	0.0533242	0.0488685	0.0411424
100000.	0.0152298	0.0136646	0.0145842	0.0140084	0.0110217
10000.0	0.00172363	0.00211762	0.00268401	0.00267115	0.00203004
1000.00	0.000254138	0.000339577	0.000420611	0.000404030	0.000297881
100.000	3.84147e-05	4.26380e-05	4.80590e-05	4.52321e-05	3.34147e-05
10.0000	3.53350e-06	3.41576e-06	3.91857e-06	3.96819e-06	3.10552e-06
1.00000	1.88419e-07	1.94826e-07	2.78184e-07	3.28710e-07	2.78795e-07
0.100000	6.74492e-09	1.09422e-08	2.16188e-08	2.90690e-08	2.60285e-08
0.0100000	2.67533e-10	8.05361e-10	1.92385e-09	2.74180e-09	2.51621e-09
0.00100000	1.85255e-11	7.24116e-11	1.83419e-10	2.66923e-10	2.47538e-10
0.000100000	1.69360e-12	6.99617e-12	1.80137e-11	2.64103e-11	2.45930e-11
1.00000e-05	1.66848e-13	6.95619e-13	1.79604e-12	2.63646e-12	2.45668e-12
1.00000e-06	1.66395e-14	6.95047e-14	1.79534e-13	2.63586e-13	2.45631e-13
1.00000e-07	1.66280e-15	6.94935e-15	1.79521e-14	2.63576e-14	2.45624e-14
1.00000e-08	1.66252e-16	6.94904e-16	1.79518e-15	2.63573e-15	2.45621e-15
1.00000e-09	1.66244e-17	6.94891e-17	1.79517e-16	2.63571e-16	2.45620e-16

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.179390	0.0225128	0.0171982	0.0139421	0.0110059
1.00000e+07	0.0880483	0.0138872	0.00835291	0.00519071	0.00314340
1.00000e+06	0.0334222	0.00511130	0.00216840	0.00102406	0.000508320
100000.	0.00786327	0.00102701	0.000349634	0.000143624	6.37766e-05
10000.0	0.00135575	0.000163391	4.80777e-05	1.74125e-05	6.98915e-06
1000.00	0.000191853	2.19906e-05	5.66439e-06	1.86077e-06	7.06299e-07
100.000	2.14322e-05	2.45189e-06	5.90719e-07	1.86780e-07	6.97769e-08
10.0000	2.05768e-06	2.47225e-07	5.88913e-08	1.85037e-08	6.89910e-09
1.00000	1.92500e-07	2.43822e-08	5.83871e-09	1.83620e-09	6.84861e-10
0.100000	1.84476e-08	2.41250e-09	5.80433e-10	1.82734e-10	6.81778e-11
0.0100000	1.80553e-09	2.39743e-10	5.78309e-11	1.82178e-11	6.79841e-12
0.00100000	1.78638e-10	2.39262e-11	5.77672e-12	1.82022e-12	6.79324e-13
0.000100000	1.77886e-11	2.39158e-12	5.77550e-13	1.81997e-13	6.79245e-14
1.00000e-05	1.77759e-12	2.39127e-13	5.77518e-14	1.81991e-14	6.79231e-15
1.00000e-06	1.77739e-13	2.39114e-14	5.77504e-15	1.81989e-15	6.79225e-16
1.00000e-07	1.77735e-14	2.39109e-15	5.77501e-16	1.81988e-16	6.79222e-17
1.00000e-08	1.77733e-15	2.39105e-16	5.77497e-17	1.81987e-17	6.79219e-18
1.00000e-09	1.77732e-16	2.39103e-17	5.77494e-18	1.81987e-18	6.79219e-19

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.00841684	0.00627963	0.00461794	0.00337972	0.00248031
1.00000e+07	0.00189145	0.00115132	0.000716320	0.000457764	0.000301074
1.00000e+06	0.000263843	0.000143096	8.12095e-05	4.82974e-05	3.00957e-05
100000.	3.00600e-05	1.51072e-05	8.12686e-06	4.67198e-06	2.85410e-06
10000.0	3.07761e-06	1.48774e-06	7.84911e-07	4.47350e-07	2.72381e-07
1000.00	3.03001e-07	1.44975e-07	7.62337e-08	4.34217e-08	2.64465e-08
100.000	2.97812e-08	1.42332e-08	7.48528e-09	4.26534e-09	2.59906e-09
10.0000	2.94398e-09	1.40736e-09	7.40376e-10	4.22014e-10	2.57217e-10
1.00000	2.92322e-10	1.39774e-10	7.35453e-11	4.19272e-11	2.55577e-11
0.100000	2.91052e-11	1.39184e-11	7.32409e-12	4.17564e-12	2.54551e-12
0.0100000	2.90259e-12	1.38816e-12	7.30520e-13	4.16513e-13	2.53924e-13
0.00100000	2.90055e-13	1.38724e-13	7.30064e-14	4.16267e-14	2.53779e-14
0.000100000	2.90026e-14	1.38711e-14	7.30001e-15	4.16234e-15	2.53761e-15
1.00000e-05	2.90018e-15	1.38709e-15	7.29990e-16	4.16227e-16	2.53758e-16
1.00000e-06	2.90018e-16	1.38708e-16	7.29988e-17	4.16225e-17	2.53756e-17
1.00000e-07	2.90016e-17	1.38707e-17	7.29985e-18	4.16225e-18	2.53756e-18
1.00000e-08	2.90016e-18	1.38707e-18	7.29985e-19	4.16225e-19	2.53756e-19
1.00000e-09	2.90016e-19	1.38707e-19	7.29985e-20	4.16225e-20	2.53756e-20

Pa\K	4000.00
1.00000e+08	0.00183494
1.00000e+07	0.000203922
1.00000e+06	1.96084e-05
100000.	1.83949e-06
10000.0	1.75390e-07
1000.00	1.70389e-08
100.000	1.67521e-09
10.0000	1.65824e-10
1.00000	1.64784e-11
0.100000	1.64131e-12
0.0100000	1.63734e-13
0.00100000	1.63646e-14
0.000100000	1.63634e-15
1.00000e-05	1.63632e-16

1.00000e-06 | 1.63632e-17
 1.00000e-07 | 1.63631e-18
 1.00000e-08 | 1.63631e-19
 1.00000e-09 | 1.63631e-20

Indene+H
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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	3.78122e-20	3.12376e-19	1.04447e-18	2.46764e-18	4.85203e-18
1.00000e+07	3.78962e-17	3.13776e-16	1.05144e-15	2.48944e-15	4.90540e-15
1.00000e+06	3.87314e-14	3.27595e-13	1.11979e-12	2.70196e-12	5.42247e-12
100000.	4.65740e-11	4.49533e-10	1.68838e-09	4.37175e-09	9.26311e-09
10000.0	9.13293e-08	8.82660e-07	3.01170e-06	6.93073e-06	1.29941e-05
1000.00	7.42004e-05	0.000330344	0.000677726	0.00107472	0.00150797
100.000	0.00373145	0.00877246	0.0136611	0.0181552	0.0221758
10.0000	0.0341841	0.0431749	0.0463773	0.0482592	0.0496507
1.00000	0.0525601	0.0556631	0.0570613	0.0579449	0.0586126
0.100000	0.0591132	0.0612983	0.0635372	0.0658938	0.0683643
0.0100000	0.0768278	0.0965771	0.115960	0.135551	0.155641
0.00100000	0.230896	0.367885	0.474477	0.560774	0.631945
0.000100000	0.807790	0.930103	0.963193	0.975263	0.980353
1.00000e-05	0.986742	0.987365	0.987155	0.986820	0.986416
1.00000e-06	0.987411	0.987280	0.987047	0.986726	0.986336
1.00000e-07	0.987369	0.987259	0.987033	0.986715	0.986328
1.00000e-08	0.987365	0.987257	0.987032	0.986714	0.986327
1.00000e-09	0.987364	0.987257	0.987032	0.986714	0.986327

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	8.51864e-18	1.38613e-17	2.13808e-17	3.17325e-17	4.57918e-17
1.00000e+07	8.63101e-15	1.40752e-14	2.17602e-14	3.23720e-14	4.68309e-14
1.00000e+06	9.71272e-12	1.61205e-11	2.53628e-11	3.84013e-11	5.65520e-11
100000.	1.73098e-08	2.96972e-08	4.79378e-08	7.40010e-08	1.10493e-07
10000.0	2.15001e-05	3.27235e-05	4.69472e-05	6.44897e-05	8.57256e-05
1000.00	0.00197299	0.00246864	0.00299560	0.00355584	0.00415232
100.000	0.0257060	0.0287608	0.0313733	0.0335862	0.0354460
10.0000	0.0507621	0.0516618	0.0523829	0.0529501	0.0533865
1.00000	0.0591475	0.0595770	0.0599191	0.0601943	0.0604261
0.100000	0.0709458	0.0736573	0.0765427	0.0796657	0.0831035
0.0100000	0.176438	0.198153	0.221003	0.245176	0.270808
0.00100000	0.691169	0.740678	0.782133	0.816795	0.845647
0.000100000	0.982609	0.983539	0.983762	0.983546	0.982996
1.00000e-05	0.985955	0.985431	0.984832	0.984132	0.983289
1.00000e-06	0.985886	0.985371	0.984779	0.984085	0.983246
1.00000e-07	0.985879	0.985364	0.984774	0.984080	0.983242
1.00000e-08	0.985878	0.985364	0.984773	0.984079	0.983241
1.00000e-09	0.985878	0.985364	0.984773	0.984079	0.983241

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	6.47445e-17	9.02146e-17	1.24446e-16	1.70562e-16	2.32944e-16
1.00000e+07	6.63886e-14	9.27671e-14	1.28358e-13	1.76509e-13	2.41945e-13
1.00000e+06	8.16405e-11	1.16230e-10	1.63952e-10	2.30007e-10	3.21883e-10
100000.	1.60898e-07	2.29913e-07	3.23893e-07	4.51473e-07	6.24381e-07
10000.0	0.000111103	0.000141160	0.000176534	0.000217983	0.000266401
1000.00	0.00478865	0.00546891	0.00619735	0.00697811	0.00781504
100.000	0.0369993	0.0382899	0.0393589	0.0402426	0.0409737
10.0000	0.0537136	0.0539518	0.0541189	0.0542309	0.0543022
1.00000	0.0606397	0.0608611	0.0611160	0.0614299	0.0618291
0.100000	0.0869426	0.0912762	0.0962036	0.101832	0.108271
0.0100000	0.297964	0.326619	0.356664	0.387904	0.420072
0.00100000	0.869473	0.888917	0.904525	0.916768	0.926059
0.000100000	0.982136	0.980946	0.979384	0.977408	0.974978
1.00000e-05	0.982248	0.980945	0.979312	0.977294	0.974840
1.00000e-06	0.982209	0.980909	0.979280	0.977264	0.974813
1.00000e-07	0.982205	0.980906	0.979277	0.977261	0.974811
1.00000e-08	0.982205	0.980906	0.979277	0.977261	0.974810
1.00000e-09	0.982205	0.980906	0.979277	0.977261	0.974810

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.17772e-16	4.33813e-16	5.93564e-16	8.14913e-16	1.12357e-15
1.00000e+07	3.31376e-13	4.54394e-13	6.24782e-13	8.62458e-13	1.19632e-12
1.00000e+06	4.50455e-10	6.31598e-10	8.88597e-10	1.25574e-09	1.78364e-09
100000.	8.58547e-07	1.17554e-06	1.60450e-06	2.18450e-06	2.96771e-06
10000.0	0.000322831	0.000388491	0.000464794	0.000553367	0.000656081
1000.00	0.00871133	0.00966931	0.0106901	0.0117734	0.0129175
100.000	0.0415811	0.0420899	0.0425224	0.0428979	0.0432328
10.0000	0.0543454	0.0543726	0.0543949	0.0544227	0.0544669

1.00000	0.0623415	0.0629967	0.0638278	0.0648716	0.0661693
0.100000	0.115643	0.124071	0.133679	0.144588	0.156911
0.0100000	0.452834	0.485814	0.518607	0.550802	0.582000
0.00100000	0.932767	0.937223	0.939720	0.940526	0.939880
0.000100000	0.972068	0.968665	0.964771	0.960399	0.955573
1.00000e-05	0.971917	0.968509	0.964615	0.960247	0.955427
1.00000e-06	0.971893	0.968487	0.964595	0.960228	0.955409
1.00000e-07	0.971890	0.968484	0.964592	0.960226	0.955407
1.00000e-08	0.971890	0.968484	0.964592	0.960226	0.955407
1.00000e-09	0.971890	0.968484	0.964592	0.960226	0.955407

Pa\K | 220.000 230.000 240.000 250.000 260.000

1.00000e+08	1.55661e-15	2.16762e-15	3.03431e-15	4.26948e-15	6.03711e-15
1.00000e+07	1.66850e-12	2.34061e-12	3.30308e-12	4.68897e-12	6.69433e-12
1.00000e+06	2.54719e-09	3.65719e-09	5.27764e-09	7.65065e-09	1.11329e-08
100000.	4.02324e-06	5.44186e-06	7.34171e-06	9.87511e-06	1.32362e-05
10000.0	0.000775073	0.000912770	0.00107191	0.00125553	0.00146703
1000.00	0.0141185	0.0153716	0.0166697	0.0180048	0.0193678
100.000	0.0435417	0.0438367	0.0441281	0.0444246	0.0447334
10.0000	0.0545377	0.0546461	0.0548034	0.0550216	0.0553140
1.00000	0.0677679	0.0697200	0.0720849	0.0749284	0.0783229
0.100000	0.170743	0.186156	0.203183	0.221825	0.242033
0.0100000	0.611830	0.639969	0.666145	0.690151	0.711839
0.00100000	0.937988	0.935040	0.931198	0.926605	0.921381
0.000100000	0.950324	0.944686	0.938699	0.932401	0.925829
1.00000e-05	0.950184	0.944555	0.938576	0.932286	0.925722
1.00000e-06	0.950168	0.944540	0.938562	0.932274	0.925711
1.00000e-07	0.950166	0.944538	0.938561	0.932273	0.925710
1.00000e-08	0.950166	0.944538	0.938561	0.932272	0.925710
1.00000e-09	0.950166	0.944538	0.938561	0.932272	0.925710

Pa\K | 270.000 280.000 290.000 300.000 400.000

1.00000e+08	8.57543e-15	1.22299e-14	1.74996e-14	2.72304e-13	1.09508e-11
1.00000e+07	9.60815e-12	1.38559e-11	2.00612e-11	3.61075e-10	1.57392e-08
1.00000e+06	1.62469e-08	2.37542e-08	3.47536e-08	5.32876e-07	1.16516e-05
100000.	1.76701e-05	2.34818e-05	3.10471e-05	0.000166772	0.00107967
10000.0	0.00171008	0.00198866	0.00230694	0.00520076	0.0135043
1000.00	0.0207487	0.0221375	0.0235242	0.0296157	0.0370320
100.000	0.0450602	0.0454099	0.0457863	0.0464543	0.0511134
10.0000	0.0556949	0.0561805	0.0567891	0.0599287	0.0913151
1.00000	0.0823460	0.0870805	0.0926110	0.128482	0.276351
0.100000	0.263710	0.286712	0.310848	0.425342	0.620594
0.0100000	0.731128	0.747991	0.762453	0.809702	0.790689
0.00100000	0.915634	0.909453	0.902916	0.890225	0.805042
0.000100000	0.919019	0.912005	0.904815	0.891360	0.805013
1.00000e-05	0.918920	0.911913	0.904731	0.891307	0.804992
1.00000e-06	0.918910	0.911903	0.904721	0.891302	0.804989
1.00000e-07	0.918909	0.911902	0.904720	0.891301	0.804989
1.00000e-08	0.918909	0.911902	0.904720	0.891301	0.804989
1.00000e-09	0.918909	0.911902	0.904720	0.891301	0.804989

Pa\K | 500.000 600.000 700.000 800.000 900.000

1.00000e+08	1.02800e-09	9.60666e-08	2.65425e-06	4.50745e-05	0.000409863
1.00000e+07	9.16068e-07	2.24426e-05	0.000205602	0.00108107	0.00351407
1.00000e+06	0.000165916	0.00123103	0.00449470	0.00987877	0.0156909
100000.	0.00467709	0.0128162	0.0223030	0.0289238	0.0340834
10000.0	0.0249588	0.0348984	0.0418675	0.0502610	0.0664067
1000.00	0.0431396	0.0529753	0.0755861	0.113079	0.156293
100.000	0.0687566	0.117515	0.193888	0.256407	0.281242
10.0000	0.182117	0.306064	0.383688	0.387589	0.349763
1.00000	0.448408	0.520700	0.496428	0.432889	0.364522
0.100000	0.660760	0.603030	0.519890	0.438600	0.365684
0.0100000	0.707034	0.612140	0.521300	0.438768	0.365682
0.00100000	0.708779	0.612243	0.521273	0.438751	0.365675
0.000100000	0.708724	0.612222	0.521266	0.438749	0.365674
1.00000e-05	0.708717	0.612219	0.521265	0.438748	0.365674
1.00000e-06	0.708716	0.612219	0.521265	0.438748	0.365674
1.00000e-07	0.708716	0.612219	0.521265	0.438748	0.365674
1.00000e-08	0.708716	0.612219	0.521265	0.438748	0.365674
1.00000e-09	0.708716	0.612219	0.521265	0.438748	0.365674

Pa\K | 1000.00 1100.00 1200.00 1300.00 1400.00

1.00000e+08	0.00132745	0.00185580	0.00187876	0.00172664	0.00147181
1.00000e+07	0.00633523	0.00779138	0.00832476	0.00887052	0.00920793
1.00000e+06	0.0197049	0.0228024	0.0261591	0.0287415	0.0291096
100000.	0.0407794	0.0507303	0.0604137	0.0637796	0.0601916

10000.0	0.0889853	0.109024	0.116671	0.110177	0.0961869
1000.00	0.184249	0.187577	0.171356	0.146391	0.121018
100.000	0.267761	0.234237	0.195778	0.160022	0.129542
10.0000	0.297502	0.246088	0.200720	0.162466	0.130986
1.00000	0.301833	0.247354	0.201150	0.162661	0.131101
0.100000	0.302041	0.247386	0.201154	0.162663	0.131103
0.0100000	0.302030	0.247379	0.201152	0.162662	0.131102
0.00100000	0.302027	0.247379	0.201151	0.162661	0.131102
0.000100000	0.302027	0.247379	0.201151	0.162661	0.131102
1.00000e-05	0.302027	0.247379	0.201151	0.162661	0.131102
1.00000e-06	0.302027	0.247379	0.201151	0.162661	0.131102
1.00000e-07	0.302027	0.247379	0.201151	0.162661	0.131102
1.00000e-08	0.302027	0.247379	0.201151	0.162661	0.131102
1.00000e-09	0.302027	0.247379	0.201151	0.162661	0.131102

Pa\K | 1500.00 1750.00 2000.00 2250.00 2500.00

1.00000e+08	0.00119760	0.00179372	0.00182517	0.00184413	0.00184684
1.00000e+07	0.00891987	0.00449474	0.00462493	0.00453705	0.00422957
1.00000e+06	0.0276339	0.0124400	0.0108697	0.00928681	0.00776959
100000.	0.0534032	0.0261346	0.0202227	0.0154566	0.0115111
10000.0	0.0810499	0.0425388	0.0287402	0.0193721	0.0131509
1000.00	0.0987962	0.0515239	0.0319241	0.0203629	0.0134460
100.000	0.104547	0.0539072	0.0325420	0.0205056	0.0134793
10.0000	0.105492	0.0542737	0.0326204	0.0205207	0.0134822
1.00000	0.105568	0.0543101	0.0326278	0.0205220	0.0134824
0.100000	0.105570	0.0543126	0.0326284	0.0205220	0.0134824
0.0100000	0.105570	0.0543127	0.0326284	0.0205221	0.0134824
0.00100000	0.105570	0.0543127	0.0326284	0.0205221	0.0134824
0.000100000	0.105570	0.0543127	0.0326284	0.0205221	0.0134824
1.00000e-05	0.105570	0.0543127	0.0326284	0.0205221	0.0134824
1.00000e-06	0.105570	0.0543127	0.0326284	0.0205221	0.0134824
1.00000e-07	0.105570	0.0543127	0.0326284	0.0205221	0.0134824
1.00000e-08	0.105570	0.0543127	0.0326284	0.0205221	0.0134824
1.00000e-09	0.105570	0.0543127	0.0326284	0.0205221	0.0134824

Pa\K | 2750.00 3000.00 3250.00 3500.00 3750.00

1.00000e+08	0.00182493	0.00177258	0.00169401	0.00159725	0.00149000
1.00000e+07	0.00381968	0.00337995	0.00294867	0.00254684	0.00218625
1.00000e+06	0.00636294	0.00512432	0.00409140	0.00326482	0.00262014
100000.	0.00846070	0.00623615	0.00465801	0.00354437	0.00275288
10000.0	0.00911610	0.00649372	0.00475825	0.00358231	0.00276599
1000.00	0.00920537	0.00652150	0.00476683	0.00358465	0.00276628
100.000	0.00921361	0.00652360	0.00476730	0.00358465	0.00276618
10.0000	0.00921422	0.00652370	0.00476730	0.00358463	0.00276616
1.00000	0.00921427	0.00652370	0.00476729	0.00358462	0.00276616
0.100000	0.00921427	0.00652370	0.00476729	0.00358462	0.00276616
0.0100000	0.00921427	0.00652370	0.00476729	0.00358462	0.00276616
0.00100000	0.00921427	0.00652370	0.00476729	0.00358462	0.00276616
0.000100000	0.00921427	0.00652370	0.00476729	0.00358462	0.00276616
1.00000e-05	0.00921427	0.00652370	0.00476729	0.00358462	0.00276616
1.00000e-06	0.00921427	0.00652370	0.00476729	0.00358462	0.00276616
1.00000e-07	0.00921427	0.00652370	0.00476729	0.00358462	0.00276616
1.00000e-08	0.00921427	0.00652370	0.00476729	0.00358462	0.00276616
1.00000e-09	0.00921427	0.00652370	0.00476729	0.00358462	0.00276616

Pa\K | 4000.00

1.00000e+08	0.00137848
1.00000e+07	0.00187228
1.00000e+06	0.00212384
100000.	0.00218297
10000.0	0.00218624
1000.00	0.00218589
100.000	0.00218578
10.0000	0.00218576
1.00000	0.00218576
0.100000	0.00218576
0.0100000	0.00218576
0.00100000	0.00218576
0.000100000	0.00218576
1.00000e-05	0.00218576
1.00000e-06	0.00218576
1.00000e-07	0.00218576
1.00000e-08	0.00218576
1.00000e-09	0.00218576

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	2.35504e-07	2.44237e-06	5.69336e-05	0.000418605	0.00158474
1.00000e+07	2.32234e-06	6.66196e-06	6.32505e-05	0.000427030	0.00159530
1.00000e+06	2.31802e-05	4.88504e-05	0.000126412	0.000511272	0.00170095
100000.	0.000231726	0.000470607	0.000757746	0.00135318	0.00275659
10000.0	0.00231408	0.00467547	0.00704261	0.00972161	0.0132331
1000.00	0.0228310	0.0454859	0.0671485	0.0885796	0.110483
100.000	0.200678	0.354558	0.469500	0.558648	0.629403
10.0000	0.812327	0.911838	0.932376	0.938231	0.940156
1.00000	0.942283	0.941839	0.941351	0.940842	0.940337
0.100000	0.940047	0.937769	0.935420	0.932956	0.930380
0.0100000	0.921709	0.901618	0.881983	0.862149	0.841803
0.00100000	0.765993	0.627757	0.520115	0.432850	0.360744
0.000100000	0.183596	0.0594558	0.0254360	0.0126713	0.00695857
1.00000e-05	0.00110197	0.000127518	3.54903e-05	1.40714e-05	6.75204e-06
1.00000e-06	8.94521e-07	1.09243e-07	3.36460e-08	1.46125e-08	7.58893e-09
1.00000e-07	1.34923e-09	2.24643e-10	8.26008e-11	4.06045e-11	2.31998e-11
1.00000e-08	5.63049e-12	1.26179e-12	5.46608e-13	3.00920e-13	1.87497e-13
1.00000e-09	6.07367e-14	1.79288e-14	9.04757e-15	5.53473e-15	3.73788e-15

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	0.00408801	0.00828882	0.0143049	0.0220450	0.0312797
1.00000e+07	0.00410076	0.00830379	0.0143222	0.0220646	0.0313016
1.00000e+06	0.00422821	0.00845350	0.0144947	0.0222604	0.0315215
100000.	0.00550155	0.00994894	0.0162172	0.0242159	0.0337172
10000.0	0.0181183	0.0247415	0.0332259	0.0434886	0.0553131
1000.00	0.133437	0.157796	0.183667	0.210965	0.239478
100.000	0.686420	0.732847	0.770908	0.802217	0.827980
10.0000	0.940815	0.941038	0.941122	0.941159	0.941153
1.00000	0.939871	0.939459	0.939098	0.938754	0.938374
0.100000	0.927694	0.924873	0.921865	0.918579	0.914902
0.0100000	0.820725	0.798689	0.775461	0.750819	0.724577
0.00100000	0.300595	0.250145	0.207710	0.171996	0.141976
0.000100000	0.00409213	0.00253148	0.00162780	0.00107886	0.000732495
1.00000e-05	3.65108e-06	2.14190e-06	1.33241e-06	8.65967e-07	5.82085e-07
1.00000e-06	4.39863e-09	2.74505e-09	1.80571e-09	1.23504e-09	8.70233e-10
1.00000e-07	1.45360e-11	9.69047e-12	6.75145e-12	4.85957e-12	3.58557e-12
1.00000e-08	1.26037e-13	8.91568e-14	6.53922e-14	4.92558e-14	3.78558e-14
1.00000e-09	2.68207e-15	2.00435e-15	1.54154e-15	1.21074e-15	9.66021e-16

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	0.0417107	0.0530228	0.0649162	0.0771239	0.0894200
1.00000e+07	0.0417352	0.0530500	0.0649460	0.0771567	0.0894559
1.00000e+06	0.0419801	0.0533210	0.0652445	0.0774842	0.0898144
100000.	0.0444248	0.0560257	0.0682225	0.0807514	0.0933897
10000.0	0.0684175	0.0825057	0.0972994	0.112556	0.128077
1000.00	0.268939	0.299062	0.329570	0.360211	0.390758
100.000	0.849114	0.866340	0.880230	0.891253	0.899802
10.0000	0.941063	0.940825	0.940369	0.939628	0.938546
1.00000	0.937883	0.937195	0.936225	0.934888	0.933113
0.100000	0.910689	0.905784	0.900017	0.893221	0.885229
0.0100000	0.696609	0.666861	0.635368	0.602252	0.567725
0.00100000	0.116804	0.0957695	0.0782613	0.0637473	0.0517644
0.000100000	0.000507160	0.000356848	0.000254484	0.000183555	0.000133680
1.00000e-05	4.01774e-07	2.83283e-07	2.03238e-07	1.47923e-07	1.08970e-07
1.00000e-06	6.27624e-10	4.61137e-10	3.43964e-10	2.59774e-10	1.98240e-10
1.00000e-07	2.69712e-12	2.06018e-12	1.59330e-12	1.24488e-12	9.80942e-13
1.00000e-08	2.95513e-14	2.33542e-14	1.86401e-14	1.49978e-14	1.21479e-14
1.00000e-09	7.80108e-16	6.35934e-16	5.22282e-16	4.31521e-16	3.58276e-16

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	0.101620	0.113580	0.125190	0.136371	0.147071
1.00000e+07	0.101660	0.113623	0.125236	0.136422	0.147127
1.00000e+06	0.102052	0.114051	0.125704	0.136932	0.147683
100000.	0.105957	0.118313	0.130351	0.142001	0.153213
10000.0	0.143704	0.159326	0.174865	0.190276	0.205544
1000.00	0.421009	0.450791	0.479943	0.508325	0.535809
100.000	0.906212	0.910774	0.913746	0.915354	0.915800
10.0000	0.937086	0.935225	0.932957	0.930291	0.927244
1.00000	0.930843	0.928033	0.924654	0.920681	0.916098
0.100000	0.875883	0.865035	0.852548	0.838300	0.822186
0.0100000	0.532078	0.495664	0.458883	0.422156	0.385906
0.00100000	0.0419110	0.0338394	0.0272515	0.0218931	0.0175486
0.000100000	9.81686e-05	7.26106e-05	5.40441e-05	4.04467e-05	3.04177e-05
1.00000e-05	8.10982e-08	6.08855e-08	4.60568e-08	3.50693e-08	2.68574e-08
1.00000e-06	1.52617e-10	1.18377e-10	9.24174e-11	7.25601e-11	5.72559e-11

1.00000e-07	7.78524e-13	6.21675e-13	4.99064e-13	4.02508e-13	3.25990e-13
1.00000e-08	9.89440e-15	8.09702e-15	6.65283e-15	5.48526e-15	4.53665e-15
1.00000e-09	2.98658e-16	2.49789e-16	2.09500e-16	1.76123e-16	1.48365e-16

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	0.157256	0.166913	0.176036	0.184636	0.192726
1.00000e+07	0.157317	0.166979	0.176109	0.184715	0.192812
1.00000e+06	0.157924	0.167643	0.176836	0.185512	0.193688
100000.	0.163962	0.174239	0.184050	0.193410	0.202344
10000.0	0.220672	0.235681	0.250606	0.265489	0.280377
1000.00	0.562277	0.587619	0.611740	0.634553	0.655989
100.000	0.915266	0.913909	0.911871	0.909276	0.906230
10.0000	0.923842	0.920117	0.916099	0.911819	0.907306
1.00000	0.910887	0.905031	0.898503	0.891272	0.883294
0.100000	0.804125	0.784063	0.761979	0.737892	0.711867
0.0100000	0.350534	0.316407	0.283837	0.253082	0.224331
0.00100000	0.0140369	0.0112062	0.00893033	0.00710505	0.00564438
0.000100000	2.29744e-05	1.74197e-05	1.32539e-05	1.01164e-05	7.74393e-06
1.00000e-05	2.06738e-08	1.59869e-08	1.24137e-08	9.67576e-09	7.56823e-09
1.00000e-06	4.53835e-11	3.61216e-11	2.88610e-11	2.31457e-11	1.86310e-11
1.00000e-07	2.65031e-13	2.16250e-13	1.77072e-13	1.45518e-13	1.20053e-13
1.00000e-08	3.76232e-15	3.12819e-15	2.60720e-15	2.17822e-15	1.82411e-15
1.00000e-09	1.25200e-16	1.05816e-16	8.95683e-17	7.59068e-17	6.44098e-17

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	0.200324	0.207457	0.214148	0.238977	0.301454
1.00000e+07	0.200421	0.207563	0.214265	0.239223	0.302115
1.00000e+06	0.201382	0.208621	0.215431	0.241667	0.308613
100000.	0.210882	0.219059	0.226911	0.264970	0.363739
10000.0	0.295319	0.310364	0.325553	0.428514	0.602112
1000.00	0.675990	0.694513	0.711537	0.799469	0.828400
100.000	0.902826	0.899141	0.895245	0.895376	0.845494
10.0000	0.902584	0.897671	0.892577	0.886531	0.799825
1.00000	0.874514	0.864870	0.854288	0.811388	0.585996
0.100000	0.684015	0.654496	0.623517	0.493267	0.202817
0.0100000	0.197713	0.173295	0.151090	0.0877402	0.0168562
0.00100000	0.00447789	0.00354810	0.00280828	0.00174143	0.000199289
0.000100000	5.94371e-06	4.57334e-06	3.52716e-06	6.92048e-06	8.07258e-07
1.00000e-05	5.93944e-09	4.67614e-09	3.69323e-09	3.17653e-08	4.76532e-09
1.00000e-06	1.50548e-11	1.22163e-11	9.96061e-12	2.80408e-10	5.58002e-11
1.00000e-07	9.94837e-14	8.28807e-14	6.95153e-14	4.75611e-12	1.05963e-12
1.00000e-08	1.53191e-15	1.29023e-15	1.09070e-15	1.44389e-13	3.18932e-14
1.00000e-09	5.47234e-17	4.65571e-17	3.96717e-17	6.49684e-15	1.51533e-15

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	0.334894	0.352225	0.361144	0.367325	0.379352
1.00000e+07	0.336752	0.357366	0.374864	0.399703	0.436983
1.00000e+06	0.354079	0.398742	0.454602	0.510902	0.546208
100000.	0.464599	0.561503	0.623757	0.637915	0.615607
10000.0	0.704600	0.727949	0.704150	0.651537	0.564814
1000.00	0.797537	0.743460	0.658826	0.531882	0.371880
100.000	0.773640	0.650257	0.466809	0.280397	0.138869
10.0000	0.627981	0.389253	0.186691	0.0746241	0.0252587
1.00000	0.303189	0.113098	0.0332655	0.00886948	0.00214969
0.100000	0.0561047	0.0120168	0.00226777	0.000439744	8.44450e-05
0.0100000	0.00256006	0.000357412	5.09049e-05	8.52853e-06	1.54658e-06
0.00100000	2.30557e-05	2.97645e-06	4.51632e-07	8.61090e-08	1.86465e-08
0.000100000	1.16101e-07	2.44270e-08	5.98774e-09	1.41540e-09	3.46965e-10
1.00000e-05	1.29114e-09	6.12914e-10	2.15772e-10	5.35828e-11	1.23914e-11
1.00000e-06	2.92535e-11	2.02348e-11	7.73387e-12	1.94676e-12	4.56836e-13
1.00000e-07	5.25899e-13	3.41052e-13	1.29722e-13	3.61877e-14	1.20989e-14
1.00000e-08	9.89575e-15	4.25571e-15	1.65758e-15	6.92169e-16	4.84309e-16
1.00000e-09	4.31792e-16	1.55148e-16	6.61053e-17	3.65612e-17	3.42012e-17

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	0.397208	0.401245	0.389073	0.359469	0.322466
1.00000e+07	0.459387	0.446689	0.403512	0.338071	0.275831
1.00000e+06	0.540390	0.492826	0.404659	0.300458	0.222996
100000.	0.557738	0.458822	0.330539	0.216396	0.146848
10000.0	0.440748	0.299148	0.177254	0.100306	0.0621934
1000.00	0.222183	0.115107	0.0548992	0.0272153	0.0156811
100.000	0.0596055	0.0235099	0.00933260	0.00420650	0.00231674
10.0000	0.00794287	0.00250379	0.000875485	0.000377197	0.000207890
1.00000	0.000530327	0.000144509	4.82332e-05	2.14491e-05	1.27725e-05
0.100000	1.82762e-05	4.86455e-06	1.76136e-06	9.12406e-07	6.51327e-07
0.0100000	3.53795e-07	1.12182e-07	5.30731e-08	3.65132e-08	3.35526e-08

0.00100000	5.61895e-09	2.59223e-09	1.79958e-09	1.67508e-09	1.94031e-09
0.000100000	1.31276e-10	8.51984e-11	7.99356e-11	9.20369e-11	1.26575e-10
1.00000e-05	4.92087e-12	3.90322e-12	4.38600e-12	5.78802e-12	9.06977e-12
1.00000e-06	2.14442e-13	2.13199e-13	2.74640e-13	4.01487e-13	7.00684e-13
1.00000e-07	1.00856e-14	1.35072e-14	1.94055e-14	3.06889e-14	5.83197e-14
1.00000e-08	6.48756e-16	9.99868e-16	1.51612e-15	2.53514e-15	5.13973e-15
1.00000e-09	5.19967e-17	8.35537e-17	1.29846e-16	2.25082e-16	4.76256e-16

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.308020	0.176964	0.0978931	0.0718456	0.0630475
1.00000e+07	0.243753	0.145380	0.0737397	0.0473257	0.0361718
1.00000e+06	0.182111	0.113471	0.0508874	0.0258675	0.0149186
100000.	0.112486	0.0646398	0.0223496	0.00805457	0.00335268
10000.0	0.0446437	0.0219408	0.00551354	0.00143929	0.000467683
1000.00	0.0106524	0.00443225	0.000852742	0.000179159	5.09548e-05
100.000	0.00152647	0.000591444	9.82648e-05	1.87280e-05	5.08175e-06
10.0000	0.000139819	6.05339e-05	9.85245e-06	1.84665e-06	4.97298e-07
1.00000	9.50198e-06	5.53269e-06	9.49064e-07	1.80371e-07	4.87184e-08
0.100000	5.82207e-07	4.97757e-07	9.13563e-08	1.76746e-08	4.79317e-09
0.0100000	3.71544e-08	4.55362e-08	8.85747e-09	1.73955e-09	4.73336e-10
0.00100000	2.58988e-09	4.24684e-09	8.64564e-10	1.71812e-10	4.68735e-11
0.000100000	1.95824e-10	4.02547e-10	8.48548e-11	1.70178e-11	4.65223e-12
1.00000e-05	1.57960e-11	3.86574e-11	8.36564e-12	1.68948e-12	4.62579e-13
1.00000e-06	1.34289e-12	3.75135e-12	8.27745e-13	1.68040e-13	4.60631e-14
1.00000e-07	1.20017e-13	3.68078e-13	8.22199e-14	1.67466e-14	4.59395e-15
1.00000e-08	1.11287e-14	3.61033e-14	8.16523e-15	1.66875e-15	4.58120e-16
1.00000e-09	1.06447e-15	3.58139e-15	8.14302e-16	1.66654e-16	4.57667e-17

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.0567892	0.0505420	0.0440171	0.0374450	0.0311614
1.00000e+07	0.0276966	0.0204120	0.0144906	0.0100159	0.00682418
1.00000e+06	0.00857567	0.00482883	0.00270380	0.00153259	0.000891369
100000.	0.00147034	0.000671907	0.000323478	0.000165411	8.99878e-05
10000.0	0.000173540	7.15087e-05	3.24413e-05	1.60645e-05	8.59456e-06
1000.00	1.76260e-05	7.02249e-06	3.13800e-06	1.54362e-06	8.23415e-07
100.000	1.72451e-06	6.82097e-07	3.03959e-07	1.49351e-07	7.96218e-08
10.0000	1.68320e-07	6.65150e-08	2.96285e-08	1.45538e-08	7.75679e-09
1.00000	1.65015e-08	6.52162e-09	2.90473e-09	1.42660e-09	7.60190e-10
0.100000	1.62509e-09	6.42377e-10	2.86098e-10	1.40492e-10	7.48513e-11
0.0100000	1.60608e-10	6.34952e-11	2.82775e-11	1.38843e-11	7.39616e-12
0.00100000	1.59144e-11	6.29216e-12	2.80203e-12	1.37563e-12	7.32694e-13
0.000100000	1.58025e-12	6.24830e-13	2.78234e-13	1.36584e-13	7.27394e-14
1.00000e-05	1.57183e-13	6.21536e-14	2.76756e-14	1.35848e-14	7.23414e-15
1.00000e-06	1.56563e-14	6.19114e-15	2.75670e-15	1.35309e-15	7.20504e-16
1.00000e-07	1.56169e-15	6.17566e-16	2.74973e-16	1.34961e-16	7.18614e-17
1.00000e-08	1.55763e-16	6.15974e-17	2.74260e-17	1.34607e-17	7.16705e-18
1.00000e-09	1.55625e-17	6.15453e-18	2.74034e-18	1.34499e-18	7.16135e-19

Pa\K	4000.00
1.00000e+08	0.0254535
1.00000e+07	0.00463508
1.00000e+06	0.000536294
100000.	5.19323e-05
10000.0	4.91766e-06
1000.00	4.70480e-07
100.000	4.54762e-08
10.0000	4.42914e-09
1.00000	4.33975e-10
0.100000	4.27229e-11
0.0100000	4.22083e-12
0.00100000	4.18068e-13
0.000100000	4.14994e-14
1.00000e-05	4.12687e-15
1.00000e-06	4.11002e-16
1.00000e-07	4.09903e-17
1.00000e-08	4.08798e-18
1.00000e-09	4.08478e-19

Benzene+2-propynyl

Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
1.00000e+07	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
1.00000e+06	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
100000.	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
10000.0	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08

1000.00	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
100.000	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
10.0000	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
1.00000	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
0.100000	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
0.0100000	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
0.00100000	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
0.000100000	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
1.00000e-05	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
1.00000e-06	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
1.00000e-07	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
1.00000e-08	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08
1.00000e-09	9.80165e-26	6.62139e-17	1.54712e-12	6.06773e-10	3.11432e-08

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
1.00000e+07	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
1.00000e+06	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
100000.	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
10000.0	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
1000.00	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
100.000	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
10.0000	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
1.00000	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
0.100000	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
0.0100000	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
0.00100000	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
0.000100000	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
1.00000e-05	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
1.00000e-06	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
1.00000e-07	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
1.00000e-08	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695
1.00000e-09	5.02676e-07	3.94877e-06	1.92269e-05	6.70630e-05	0.000183695

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	0.000420064	0.000836559	0.00149531	0.00245244	0.00375209
1.00000e+07	0.000420064	0.000836559	0.00149531	0.00245244	0.00375209
1.00000e+06	0.000420064	0.000836559	0.00149531	0.00245244	0.00375209
100000.	0.000420064	0.000836559	0.00149531	0.00245244	0.00375209
10000.0	0.000420064	0.000836559	0.00149531	0.00245244	0.00375209
1000.00	0.000420064	0.000836559	0.00149531	0.00245244	0.00375209
100.000	0.000420064	0.000836559	0.00149531	0.00245244	0.00375209
10.0000	0.000420064	0.000836559	0.00149531	0.00245244	0.00375209
1.00000	0.000420064	0.000836559	0.00149531	0.00245244	0.00375209
0.100000	0.000420064	0.000836559	0.00149531	0.00245244	0.00375209
0.0100000	0.000420064	0.000836559	0.00149531	0.00245244	0.00375209
0.00100000	0.000420064	0.000836559	0.00149531	0.00245245	0.00375210
0.000100000	0.000420064	0.000836560	0.00149531	0.00245245	0.00375210
1.00000e-05	0.000420064	0.000836560	0.00149531	0.00245245	0.00375210
1.00000e-06	0.000420064	0.000836560	0.00149531	0.00245245	0.00375210
1.00000e-07	0.000420064	0.000836560	0.00149531	0.00245245	0.00375210
1.00000e-08	0.000420064	0.000836560	0.00149531	0.00245245	0.00375210
1.00000e-09	0.000420064	0.000836560	0.00149531	0.00245245	0.00375210

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	0.00542285	0.00747672	0.00990995	0.0127053	0.0158346
1.00000e+07	0.00542285	0.00747672	0.00990995	0.0127053	0.0158346
1.00000e+06	0.00542285	0.00747672	0.00990995	0.0127053	0.0158346
100000.	0.00542285	0.00747672	0.00990995	0.0127053	0.0158346
10000.0	0.00542285	0.00747672	0.00990995	0.0127053	0.0158346
1000.00	0.00542285	0.00747672	0.00990995	0.0127053	0.0158346
100.000	0.00542285	0.00747672	0.00990996	0.0127053	0.0158346
10.0000	0.00542285	0.00747672	0.00990996	0.0127053	0.0158346
1.00000	0.00542285	0.00747672	0.00990996	0.0127053	0.0158346
0.100000	0.00542285	0.00747672	0.00990997	0.0127053	0.0158347
0.0100000	0.00542286	0.00747674	0.00991000	0.0127053	0.0158348
0.00100000	0.00542287	0.00747676	0.00991003	0.0127054	0.0158348
0.000100000	0.00542288	0.00747676	0.00991003	0.0127054	0.0158348
1.00000e-05	0.00542288	0.00747676	0.00991003	0.0127054	0.0158348
1.00000e-06	0.00542288	0.00747676	0.00991003	0.0127054	0.0158348
1.00000e-07	0.00542288	0.00747676	0.00991003	0.0127054	0.0158348
1.00000e-08	0.00542288	0.00747676	0.00991003	0.0127054	0.0158348
1.00000e-09	0.00542288	0.00747676	0.00991003	0.0127054	0.0158348

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	0.0192623	0.0229478	0.0268483	0.0309205	0.0351226

1.00000e+07	0.0192623	0.0229478	0.0268483	0.0309205	0.0351226
1.00000e+06	0.0192623	0.0229478	0.0268483	0.0309205	0.0351226
100000.	0.0192623	0.0229478	0.0268483	0.0309205	0.0351226
10000.0	0.0192623	0.0229478	0.0268483	0.0309205	0.0351226
1000.00	0.0192623	0.0229478	0.0268483	0.0309205	0.0351226
100.000	0.0192623	0.0229478	0.0268483	0.0309205	0.0351226
10.0000	0.0192623	0.0229478	0.0268483	0.0309205	0.0351226
1.00000	0.0192623	0.0229479	0.0268483	0.0309206	0.0351227
0.100000	0.0192624	0.0229480	0.0268485	0.0309209	0.0351232
0.0100000	0.0192625	0.0229482	0.0268488	0.0309214	0.0351239
0.00100000	0.0192626	0.0229483	0.0268490	0.0309216	0.0351242
0.000100000	0.0192627	0.0229483	0.0268490	0.0309216	0.0351242
1.00000e-05	0.0192627	0.0229483	0.0268490	0.0309216	0.0351242
1.00000e-06	0.0192627	0.0229483	0.0268490	0.0309216	0.0351242
1.00000e-07	0.0192627	0.0229483	0.0268490	0.0309216	0.0351242
1.00000e-08	0.0192627	0.0229483	0.0268490	0.0309216	0.0351242
1.00000e-09	0.0192627	0.0229483	0.0268490	0.0309216	0.0351242

Pa\K | 270.000 280.000 290.000 300.000 400.000

1.00000e+08	0.0394150	0.0437616	0.0481294	0.0498949	0.0960368
1.00000e+07	0.0394150	0.0437616	0.0481294	0.0498949	0.0960368
1.00000e+06	0.0394150	0.0437616	0.0481294	0.0498949	0.0960369
100000.	0.0394150	0.0437616	0.0481294	0.0498949	0.0960374
10000.0	0.0394151	0.0437616	0.0481294	0.0498949	0.0960386
1000.00	0.0394151	0.0437617	0.0481295	0.0498950	0.0960394
100.000	0.0394151	0.0437617	0.0481296	0.0498951	0.0960412
10.0000	0.0394152	0.0437617	0.0481296	0.0498953	0.0960513
1.00000	0.0394153	0.0437620	0.0481300	0.0498964	0.0960752
0.100000	0.0394160	0.0437630	0.0481315	0.0498983	0.0960923
0.0100000	0.0394170	0.0437643	0.0481332	0.0498993	0.0960964
0.00100000	0.0394173	0.0437647	0.0481337	0.0498994	0.0960968
0.000100000	0.0394173	0.0437648	0.0481337	0.0498994	0.0960969
1.00000e-05	0.0394174	0.0437648	0.0481337	0.0498994	0.0960969
1.00000e-06	0.0394174	0.0437648	0.0481337	0.0498994	0.0960969
1.00000e-07	0.0394174	0.0437648	0.0481337	0.0498994	0.0960969
1.00000e-08	0.0394174	0.0437648	0.0481337	0.0498994	0.0960969
1.00000e-09	0.0394174	0.0437648	0.0481337	0.0498994	0.0960969

Pa\K | 500.000 600.000 700.000 800.000 900.000

1.00000e+08	0.141326	0.182489	0.219031	0.251380	0.280692
1.00000e+07	0.141326	0.182492	0.219064	0.251609	0.281471
1.00000e+06	0.141328	0.182509	0.219166	0.251892	0.281696
100000.	0.141334	0.182547	0.219273	0.252120	0.282491
10000.0	0.141342	0.182577	0.219450	0.253135	0.286447
1000.00	0.141350	0.182686	0.220251	0.256242	0.293608
100.000	0.141394	0.183101	0.221953	0.259950	0.298574
10.0000	0.141527	0.183709	0.223242	0.261578	0.299940
1.00000	0.141663	0.184010	0.223606	0.261885	0.300132
0.100000	0.141709	0.184070	0.223657	0.261921	0.300153
0.0100000	0.141716	0.184077	0.223663	0.261925	0.300155
0.00100000	0.141716	0.184077	0.223663	0.261925	0.300155
0.000100000	0.141717	0.184077	0.223663	0.261925	0.300155
1.00000e-05	0.141717	0.184077	0.223663	0.261925	0.300155
1.00000e-06	0.141717	0.184077	0.223663	0.261925	0.300155
1.00000e-07	0.141717	0.184077	0.223663	0.261925	0.300155
1.00000e-08	0.141717	0.184077	0.223663	0.261925	0.300155
1.00000e-09	0.141717	0.184077	0.223663	0.261925	0.300155

Pa\K | 1000.00 1100.00 1200.00 1300.00 1400.00

1.00000e+08	0.309181	0.336574	0.361342	0.384726	0.406143
1.00000e+07	0.310177	0.338834	0.370581	0.408742	0.446646
1.00000e+06	0.310197	0.341315	0.381260	0.429917	0.476285
100000.	0.313502	0.350458	0.396569	0.446295	0.490597
10000.0	0.323188	0.365448	0.411019	0.454844	0.493873
1000.00	0.333612	0.375260	0.416523	0.455753	0.492186
100.000	0.338030	0.377831	0.417168	0.455169	0.491086
10.0000	0.338854	0.378158	0.417171	0.455011	0.490872
1.00000	0.338950	0.378192	0.417171	0.454995	0.490851
0.100000	0.338961	0.378195	0.417171	0.454993	0.490849
0.0100000	0.338962	0.378196	0.417171	0.454993	0.490849
0.00100000	0.338962	0.378196	0.417171	0.454993	0.490849
0.000100000	0.338962	0.378196	0.417171	0.454993	0.490849
1.00000e-05	0.338962	0.378196	0.417171	0.454993	0.490849
1.00000e-06	0.338962	0.378196	0.417171	0.454993	0.490849
1.00000e-07	0.338962	0.378196	0.417171	0.454993	0.490849
1.00000e-08	0.338962	0.378196	0.417171	0.454993	0.490849
1.00000e-09	0.338962	0.378196	0.417171	0.454993	0.490849

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.421869	0.565082	0.642520	0.681167	0.703563
1.00000e+07	0.473225	0.587544	0.664481	0.702405	0.722938
1.00000e+06	0.512976	0.606989	0.675111	0.706405	0.725231
100000.	0.527024	0.612427	0.667481	0.697406	0.720225
10000.0	0.528085	0.607536	0.656860	0.691009	0.717758
1000.00	0.525577	0.603339	0.652739	0.689348	0.717284
100.000	0.524397	0.602070	0.651937	0.689103	0.717227
10.0000	0.524185	0.601868	0.651836	0.689077	0.717221
1.00000	0.524164	0.601847	0.651826	0.689074	0.717221
0.100000	0.524162	0.601846	0.651825	0.689074	0.717221
0.0100000	0.524162	0.601845	0.651825	0.689074	0.717221
0.00100000	0.524162	0.601845	0.651825	0.689074	0.717221
0.000100000	0.524162	0.601845	0.651825	0.689074	0.717221
1.00000e-05	0.524162	0.601845	0.651825	0.689074	0.717221
1.00000e-06	0.524162	0.601845	0.651825	0.689074	0.717221
1.00000e-07	0.524162	0.601845	0.651825	0.689074	0.717221
1.00000e-08	0.524162	0.601845	0.651825	0.689074	0.717221
1.00000e-09	0.524162	0.601845	0.651825	0.689074	0.717221

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.720618	0.735109	0.748094	0.760043	0.771119
1.00000e+07	0.738586	0.752432	0.765028	0.776324	0.786263
1.00000e+06	0.741543	0.756233	0.769056	0.780015	0.789339
100000.	0.739727	0.755990	0.769371	0.780434	0.789705
10000.0	0.738982	0.755834	0.769383	0.780479	0.789748
1000.00	0.738869	0.755815	0.769387	0.780486	0.789753
100.000	0.738857	0.755814	0.769387	0.780487	0.789754
10.0000	0.738856	0.755814	0.769387	0.780487	0.789754
1.00000	0.738856	0.755814	0.769388	0.780487	0.789754
0.100000	0.738856	0.755814	0.769388	0.780487	0.789754
0.0100000	0.738856	0.755814	0.769388	0.780487	0.789754
0.00100000	0.738856	0.755814	0.769388	0.780487	0.789754
0.000100000	0.738856	0.755814	0.769388	0.780487	0.789754
1.00000e-05	0.738856	0.755814	0.769388	0.780487	0.789754
1.00000e-06	0.738856	0.755814	0.769388	0.780487	0.789754
1.00000e-07	0.738856	0.755814	0.769388	0.780487	0.789754
1.00000e-08	0.738856	0.755814	0.769388	0.780487	0.789754
1.00000e-09	0.738856	0.755814	0.769388	0.780487	0.789754

Pa\K	4000.00
1.00000e+08	0.781325
1.00000e+07	0.794907
1.00000e+06	0.797322
100000.	0.797603
10000.0	0.797636
1000.00	0.797640
100.000	0.797641
10.0000	0.797641
1.00000	0.797641
0.100000	0.797641
0.0100000	0.797641
0.00100000	0.797641
0.000100000	0.797641
1.00000e-05	0.797641
1.00000e-06	0.797641
1.00000e-07	0.797641
1.00000e-08	0.797641
1.00000e-09	0.797641

C2H2+PhCH2

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	2.95958e-20	2.46431e-19	8.37833e-19	2.02615e-18	4.09689e-18
1.00000e+07	2.95811e-17	2.46183e-16	8.36573e-16	2.02210e-15	4.08664e-15
1.00000e+06	2.94340e-14	2.43723e-13	8.24144e-13	1.98233e-12	3.98653e-12
100000.	2.80285e-11	2.21220e-10	7.15103e-10	1.64713e-09	3.17518e-09
10000.0	1.84649e-08	1.06632e-07	2.71203e-07	5.13021e-07	8.35316e-07
1000.00	2.70280e-06	8.14984e-06	1.43351e-05	2.10668e-05	2.83645e-05
100.000	5.41289e-05	0.000105168	0.000148581	0.000187769	0.000224241
10.0000	0.000295871	0.000376553	0.000415706	0.000443603	0.000467267
1.00000	0.000454885	0.000471231	0.000484404	0.000499102	0.000515236
0.100000	0.000485884	0.000503824	0.000525858	0.000552146	0.000582089
0.0100000	0.000597138	0.000725252	0.000860049	0.00100660	0.00116778
0.00100000	0.00156560	0.00247082	0.00323830	0.00393100	0.00457687

0.000100000	0.00565107	0.00690216	0.00747304	0.00786649	0.00820035
1.00000e-05	0.00795701	0.00814272	0.00829697	0.00847611	0.00868087
1.00000e-06	0.00818747	0.00825408	0.00837103	0.00853167	0.00872527
1.00000e-07	0.00820954	0.00826499	0.00837833	0.00853717	0.00872967
1.00000e-08	0.00821174	0.00826608	0.00837906	0.00853772	0.00873011
1.00000e-09	0.00821196	0.00826619	0.00837914	0.00853777	0.00873016

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08	7.42397e-18	1.25114e-17	2.00597e-17	3.10659e-17	4.69736e-17
1.00000e+07	7.40159e-15	1.24670e-14	1.99773e-14	3.09197e-14	4.67222e-14
1.00000e+06	7.18391e-12	1.20374e-11	1.91835e-11	2.95195e-11	4.43291e-11
100000.	5.48729e-09	8.81733e-09	1.34684e-08	1.98444e-08	2.84907e-08
10000.0	1.24339e-06	1.74520e-06	2.35239e-06	3.08122e-06	3.95354e-06
1000.00	3.62731e-05	4.48577e-05	5.42117e-05	6.44604e-05	7.57617e-05
100.000	0.000258725	0.000291690	0.000323534	0.000354642	0.000385392
10.0000	0.000488892	0.000509404	0.000529372	0.000549252	0.000569458
1.00000	0.000532389	0.000550361	0.000569200	0.000589139	0.000610529
0.100000	0.000615461	0.000652578	0.000694262	0.000741747	0.000796642
0.0100000	0.00134668	0.00154750	0.00177549	0.00203657	0.00233713
0.00100000	0.00519229	0.00578964	0.00637893	0.00696803	0.00756300
0.000100000	0.00851552	0.00883154	0.00915992	0.00950815	0.00988123
1.00000e-05	0.00891002	0.00916453	0.00944662	0.00975859	0.0101023
1.00000e-06	0.00894689	0.00919596	0.00947389	0.00978255	0.0101236
1.00000e-07	0.00895056	0.00919908	0.00947660	0.00978494	0.0101257
1.00000e-08	0.00895092	0.00919939	0.00947687	0.00978517	0.0101259
1.00000e-09	0.00895096	0.00919942	0.00947690	0.00978520	0.0101260

Pa\K | 120.000 130.000 140.000 150.000 160.000

1.00000e+08	6.98990e-17	1.02981e-16	1.50918e-16	2.20814e-16	3.23490e-16
1.00000e+07	6.94757e-14	1.02276e-13	1.49755e-13	2.18895e-13	3.20316e-13
1.00000e+06	6.54718e-11	9.56667e-11	1.38922e-10	2.01188e-10	2.91347e-10
100000.	4.01499e-08	5.58377e-08	7.69465e-08	1.05387e-07	1.43784e-07
10000.0	4.99788e-06	6.25084e-06	7.75884e-06	9.58042e-06	1.17888e-05
1000.00	8.83051e-05	0.000102312	0.000118037	0.000135767	0.000155824
100.000	0.000416154	0.000447289	0.000479148	0.000512080	0.000546433
10.0000	0.000590378	0.000612382	0.000635832	0.000661086	0.000688512
1.00000	0.000633807	0.000659480	0.000688134	0.000720453	0.000757243
0.100000	0.000860926	0.000937006	0.00102780	0.00113685	0.00126843
0.0100000	0.00268357	0.00308225	0.00353918	0.00405994	0.00464947
0.00100000	0.00816843	0.00878794	0.00942467	0.0100814	0.0107613
0.000100000	0.0102826	0.0107147	0.0111796	0.0116790	0.0122147
1.00000e-05	0.0104795	0.0108912	0.0113384	0.0118225	0.0123448
1.00000e-06	0.0104985	0.0109083	0.0113539	0.0118365	0.0123576
1.00000e-07	0.0105004	0.0109100	0.0113554	0.0118379	0.0123588
1.00000e-08	0.0105006	0.0109102	0.0113556	0.0118380	0.0123590
1.00000e-09	0.0105006	0.0109102	0.0113556	0.0118381	0.0123590

Pa\K | 170.000 180.000 190.000 200.000 210.000

1.00000e+08	4.75544e-16	7.02608e-16	1.04445e-15	1.56304e-15	2.35528e-15
1.00000e+07	4.70270e-13	6.93784e-13	1.02956e-12	1.53773e-12	2.31191e-12
1.00000e+06	4.22718e-10	6.15336e-10	8.99387e-10	1.32040e-09	1.94696e-09
100000.	1.95738e-07	2.66170e-07	3.61800e-07	4.91748e-07	6.68345e-07
10000.0	1.44755e-05	1.77535e-05	2.17628e-05	2.66744e-05	3.26974e-05
1000.00	0.000178562	0.000204368	0.000233657	0.000266871	0.000304467
100.000	0.000582557	0.000620812	0.000661568	0.000705208	0.000752131
10.0000	0.000718494	0.000751446	0.000787818	0.000828108	0.000872878
1.00000	0.000799480	0.000848353	0.000905329	0.000972224	0.00105130
0.100000	0.00142777	0.00162102	0.00185548	0.00213958	0.00248287
0.0100000	0.00531192	0.00605060	0.00686786	0.00776515	0.00874309
0.00100000	0.0114670	0.0122021	0.0129699	0.0137741	0.0146188
0.000100000	0.0127889	0.0134037	0.0140619	0.0147662	0.0155196
1.00000e-05	0.0129070	0.0135112	0.0141598	0.0148553	0.0156009
1.00000e-06	0.0129186	0.0135217	0.0141694	0.0148641	0.0156090
1.00000e-07	0.0129198	0.0135228	0.0141704	0.0148650	0.0156097
1.00000e-08	0.0129199	0.0135229	0.0141705	0.0148651	0.0156098
1.00000e-09	0.0129199	0.0135229	0.0141705	0.0148651	0.0156098

Pa\K | 220.000 230.000 240.000 250.000 260.000

1.00000e+08	3.57312e-15	5.45516e-15	8.37642e-15	1.29263e-14	2.00292e-14
1.00000e+07	3.49819e-12	5.32484e-12	8.14846e-12	1.25257e-11	1.93235e-11
1.00000e+06	2.88235e-09	4.28148e-09	6.37598e-09	9.51046e-09	1.41944e-08
100000.	9.08161e-07	1.23332e-06	1.67319e-06	2.26638e-06	3.06334e-06
10000.0	4.00841e-05	4.91379e-05	6.02197e-05	7.37552e-05	9.02417e-05
1000.00	0.000346922	0.000394719	0.000448346	0.000508287	0.000575023
100.000	0.000802751	0.000857509	0.000916862	0.000981300	0.00105133
10.0000	0.000922766	0.000978508	0.00104098	0.00111118	0.00119033

1.00000	0.00114534	0.00125787	0.00139313	0.00155641	0.00175404
0.100000	0.00289592	0.00339014	0.00397746	0.00467001	0.00547974
0.0100000	0.00980155	0.0109399	0.0121570	0.0134517	0.0148226
0.00100000	0.0155078	0.0164452	0.0174354	0.0184823	0.0195901
0.000100000	0.0163255	0.0171874	0.0181087	0.0190929	0.0201437
1.00000e-05	0.0163997	0.0172550	0.0181703	0.0191491	0.0201949
1.00000e-06	0.0164070	0.0172617	0.0181764	0.0191547	0.0202001
1.00000e-07	0.0164077	0.0172624	0.0181770	0.0191552	0.0202005
1.00000e-08	0.0164078	0.0172625	0.0181771	0.0191553	0.0202005
1.00000e-09	0.0164078	0.0172625	0.0181771	0.0191553	0.0202006

Pa\K | 270.000 280.000 290.000 300.000 400.000

1.00000e+08	3.11308e-14	4.84781e-14	7.55332e-14	2.66050e-12	1.70390e-10
1.00000e+07	2.98861e-11	4.62842e-11	7.16787e-11	2.21180e-09	1.03236e-07
1.00000e+06	2.11756e-08	3.15408e-08	4.68520e-08	7.88965e-07	1.57234e-05
100000.	4.12933e-06	5.54804e-06	7.42554e-06	4.77070e-05	0.000366163
10000.0	0.000110253	0.000134445	0.000163555	0.000506979	0.00182020
1000.00	0.000649026	0.000730757	0.000820667	0.00143990	0.00307517
100.000	0.00112752	0.00121044	0.00130077	0.00184421	0.00383326
10.0000	0.00127989	0.00138163	0.00149765	0.00234717	0.00772430
1.00000	0.00199363	0.00228412	0.00263589	0.00563412	0.0226001
0.100000	0.00641788	0.00749460	0.00871858	0.0169005	0.0429440
0.0100000	0.0162689	0.0177894	0.0193838	0.0286075	0.0512881
0.00100000	0.0207629	0.0220046	0.0233189	0.0315847	0.0524541
0.000100000	0.0212647	0.0224592	0.0237307	0.0318835	0.0525632
1.00000e-05	0.0213113	0.0225017	0.0237694	0.0319121	0.0525739
1.00000e-06	0.0213160	0.0225060	0.0237732	0.0319149	0.0525750
1.00000e-07	0.0213165	0.0225063	0.0237736	0.0319152	0.0525751
1.00000e-08	0.0213165	0.0225064	0.0237736	0.0319153	0.0525751
1.00000e-09	0.0213165	0.0225064	0.0237736	0.0319153	0.0525751

Pa\K | 500.000 600.000 700.000 800.000 900.000

1.00000e+08	1.21824e-08	7.96280e-07	2.14156e-05	0.000247920	0.00158732
1.00000e+07	3.30073e-06	5.77280e-05	0.000514495	0.00246233	0.00722402
1.00000e+06	0.000177598	0.00110275	0.00402335	0.00939489	0.0159683
100000.	0.00173506	0.00509245	0.0102381	0.0161102	0.0231044
10000.0	0.00452583	0.00862528	0.0146284	0.0245311	0.0418416
1000.00	0.00606697	0.0124171	0.0273935	0.0549148	0.0913782
100.000	0.0101656	0.0294162	0.0673338	0.111916	0.147042
10.0000	0.0278559	0.0690270	0.116750	0.152501	0.171364
1.00000	0.0588491	0.102265	0.139041	0.163781	0.175968
0.100000	0.0771075	0.112324	0.143182	0.165302	0.176476
0.0100000	0.0808901	0.113676	0.143623	0.165448	0.176524
0.00100000	0.0812863	0.113805	0.143665	0.165462	0.176529
0.000100000	0.0813238	0.113817	0.143669	0.165464	0.176529
1.00000e-05	0.0813276	0.113819	0.143670	0.165464	0.176529
1.00000e-06	0.0813279	0.113819	0.143670	0.165464	0.176529
1.00000e-07	0.0813279	0.113819	0.143670	0.165464	0.176529
1.00000e-08	0.0813279	0.113819	0.143670	0.165464	0.176529
1.00000e-09	0.0813279	0.113819	0.143670	0.165464	0.176529

Pa\K | 1000.00 1100.00 1200.00 1300.00 1400.00

1.00000e+08	0.00451979	0.00625405	0.00639935	0.00592787	0.00518112
1.00000e+07	0.0126162	0.0156786	0.0172031	0.0189239	0.0201262
1.00000e+06	0.0217981	0.0273994	0.0335102	0.0385788	0.0404157
100000.	0.0331079	0.0473230	0.0618336	0.0694645	0.0685983
10000.0	0.0662462	0.0906127	0.105077	0.105783	0.0973718
1000.00	0.123018	0.139423	0.139607	0.129079	0.114122
100.000	0.163274	0.162973	0.152224	0.136396	0.119088
10.0000	0.175083	0.168092	0.154490	0.137597	0.119877
1.00000	0.176786	0.168720	0.154751	0.137734	0.119966
0.100000	0.176957	0.168783	0.154778	0.137749	0.119976
0.0100000	0.176973	0.168789	0.154781	0.137750	0.119977
0.00100000	0.176975	0.168789	0.154782	0.137750	0.119977
0.000100000	0.176975	0.168789	0.154782	0.137750	0.119977
1.00000e-05	0.176975	0.168789	0.154782	0.137750	0.119977
1.00000e-06	0.176975	0.168789	0.154782	0.137750	0.119977
1.00000e-07	0.176975	0.168789	0.154782	0.137750	0.119977
1.00000e-08	0.176975	0.168789	0.154782	0.137750	0.119977
1.00000e-09	0.176975	0.168789	0.154782	0.137750	0.119977

Pa\K | 1500.00 1750.00 2000.00 2250.00 2500.00

1.00000e+08	0.00449505	0.0197443	0.0201175	0.0189199	0.0175804
1.00000e+07	0.0199048	0.0227808	0.0223096	0.0207362	0.0192601
1.00000e+06	0.0394065	0.0314741	0.0282524	0.0250654	0.0224253
100000.	0.0631167	0.0441368	0.0359320	0.0296068	0.0248635

10000.0	0.0858285	0.0566337	0.0419307	0.0320658	0.0257587
1000.00	0.0986501	0.0632972	0.0442515	0.0327253	0.0259293
100.000	0.102377	0.0650831	0.0447265	0.0328279	0.0259500
10.0000	0.102961	0.0653533	0.0447878	0.0328391	0.0259520
1.00000	0.103026	0.0653827	0.0447940	0.0328403	0.0259521
0.100000	0.103032	0.0653857	0.0447945	0.0328403	0.0259521
0.0100000	0.103033	0.0653858	0.0447948	0.0328403	0.0259521
0.00100000	0.103033	0.0653858	0.0447948	0.0328403	0.0259521
0.000100000	0.103033	0.0653858	0.0447948	0.0328403	0.0259521
1.00000e-05	0.103033	0.0653858	0.0447948	0.0328403	0.0259521
1.00000e-06	0.103033	0.0653858	0.0447948	0.0328403	0.0259521
1.00000e-07	0.103033	0.0653858	0.0447948	0.0328403	0.0259521
1.00000e-08	0.103033	0.0653858	0.0447948	0.0328403	0.0259521
1.00000e-09	0.103033	0.0653858	0.0447948	0.0328403	0.0259521

Pa\K | 2750.00 3000.00 3250.00 3500.00 3750.00

1.00000e+08	0.0165320	0.0158175	0.0153838	0.0151513	0.0150452
1.00000e+07	0.0181582	0.0173699	0.0168000	0.0163781	0.0160597
1.00000e+06	0.0203646	0.0188233	0.0177127	0.0169319	0.0163882
100000.	0.0215643	0.0193828	0.0179675	0.0170474	0.0164405
10000.0	0.0218713	0.0194866	0.0180030	0.0170596	0.0164446
1000.00	0.0219145	0.0194977	0.0180057	0.0170601	0.0164446
100.000	0.0219187	0.0194984	0.0180058	0.0170601	0.0164445
10.0000	0.0219190	0.0194984	0.0180058	0.0170601	0.0164445
1.00000	0.0219190	0.0194984	0.0180057	0.0170600	0.0164445
0.100000	0.0219190	0.0194984	0.0180057	0.0170600	0.0164445
0.0100000	0.0219190	0.0194984	0.0180057	0.0170600	0.0164445
0.00100000	0.0219190	0.0194984	0.0180057	0.0170600	0.0164445
0.000100000	0.0219190	0.0194984	0.0180057	0.0170600	0.0164445
1.00000e-05	0.0219190	0.0194984	0.0180057	0.0170600	0.0164445
1.00000e-06	0.0219190	0.0194984	0.0180057	0.0170600	0.0164445
1.00000e-07	0.0219190	0.0194984	0.0180057	0.0170600	0.0164445
1.00000e-08	0.0219190	0.0194984	0.0180057	0.0170600	0.0164445
1.00000e-09	0.0219190	0.0194984	0.0180057	0.0170600	0.0164445

Pa\K | 4000.00

1.00000e+08	0.0150083
1.00000e+07	0.0158160
1.00000e+06	0.0160080
100000.	0.0160315
10000.0	0.0160326
1000.00	0.0160324
100.000	0.0160323
10.0000	0.0160323
1.00000	0.0160323
0.100000	0.0160323
0.0100000	0.0160323
0.00100000	0.0160323
0.000100000	0.0160323
1.00000e-05	0.0160323
1.00000e-06	0.0160323
1.00000e-07	0.0160323
1.00000e-08	0.0160323
1.00000e-09	0.0160323

PhCH2CCH+H

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08	6.67652e-22	1.61759e-21	3.53909e-21	8.14238e-21	2.05266e-20
1.00000e+07	6.67648e-21	1.61758e-20	3.53904e-20	8.14223e-20	2.05262e-19
1.00000e+06	6.67614e-20	1.61741e-19	3.53852e-19	8.14068e-19	2.05216e-18
100000.	6.67275e-19	1.61577e-18	3.53328e-18	8.12527e-18	2.04757e-17
10000.0	6.63890e-18	1.59946e-17	3.48148e-17	7.97331e-17	2.00252e-16
1000.00	6.31266e-17	1.44777e-16	3.01523e-16	6.64510e-16	1.61869e-15
100.000	3.96977e-16	6.16671e-16	9.48014e-16	1.66389e-15	3.52019e-15
10.0000	2.58029e-16	1.41000e-16	1.41139e-16	2.21743e-16	5.83237e-16
1.00000	3.01112e-17	5.22052e-17	1.06879e-16	2.49392e-16	7.90676e-16
0.100000	1.92657e-16	4.55941e-16	9.74459e-16	2.28034e-15	6.67553e-15
0.0100000	1.74632e-15	3.78732e-15	7.47825e-15	1.63565e-14	4.54189e-14
0.00100000	7.93277e-15	9.69469e-15	1.27095e-14	2.12398e-14	5.63442e-14
0.000100000	2.30812e-15	1.10751e-15	1.06107e-15	1.95070e-15	1.37802e-14
1.00000e-05	9.98689e-17	5.64314e-17	6.60108e-17	2.68319e-16	8.79296e-15
1.00000e-06	7.79467e-18	4.97327e-18	6.36045e-18	1.41165e-16	8.33152e-15
1.00000e-07	7.57199e-19	4.90579e-19	8.60132e-19	1.28931e-16	8.28584e-15
1.00000e-08	7.54970e-20	4.89976e-20	3.14793e-19	1.27712e-16	8.28128e-15
1.00000e-09	7.54747e-21	4.90639e-21	2.60306e-19	1.27591e-16	8.28082e-15

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	5.99235e-20	2.11849e-19	8.51899e-19	3.41399e-18	1.25359e-17
1.00000e+07	5.99221e-19	2.11844e-18	8.51879e-18	3.41391e-17	1.25356e-16
1.00000e+06	5.99074e-18	2.11792e-17	8.51678e-17	3.41311e-16	1.25326e-15
100000.	5.97615e-17	2.11275e-16	8.49674e-16	3.40515e-15	1.25022e-14
10000.0	5.83303e-16	2.06214e-15	8.30075e-15	3.32745e-14	1.22062e-13
1000.00	4.63858e-15	1.64556e-14	6.70315e-14	2.70111e-13	9.85953e-13
100.000	1.00969e-14	4.19447e-14	2.01480e-13	8.83776e-13	3.29257e-12
10.0000	3.62590e-15	3.17205e-14	2.16883e-13	1.08969e-12	4.25526e-12
1.00000	4.87482e-15	4.05148e-14	2.70257e-13	1.34479e-12	5.24467e-12
0.100000	2.80515e-14	1.52338e-13	8.05240e-13	3.61206e-12	1.35771e-11
0.0100000	1.79465e-13	8.91717e-13	4.33064e-12	1.81824e-11	6.48632e-11
0.00100000	2.83323e-13	1.78180e-12	9.53999e-12	4.05264e-11	1.40404e-10
0.000100000	1.86141e-13	1.70747e-12	1.03201e-11	4.54898e-11	1.58626e-10
1.00000e-05	1.70605e-13	1.68210e-12	1.03714e-11	4.59984e-11	1.60638e-10
1.00000e-06	1.69025e-13	1.67934e-12	1.03761e-11	4.60491e-11	1.60841e-10
1.00000e-07	1.68867e-13	1.67906e-12	1.03766e-11	4.60542e-11	1.60861e-10
1.00000e-08	1.68851e-13	1.67904e-12	1.03766e-11	4.60547e-11	1.60863e-10
1.00000e-09	1.68850e-13	1.67903e-12	1.03766e-11	4.60547e-11	1.60864e-10

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	4.11919e-17	1.21724e-16	3.27884e-16	8.16685e-16	1.90491e-15
1.00000e+07	4.11908e-16	1.21720e-15	3.27873e-15	8.16653e-15	1.90482e-14
1.00000e+06	4.11800e-15	1.21685e-14	3.27764e-14	8.16342e-14	1.90397e-13
100000.	4.10719e-14	1.21329e-13	3.26679e-13	8.13239e-13	1.89559e-12
10000.0	4.00225e-13	1.17892e-12	3.16238e-12	7.83576e-12	1.81610e-11
1000.00	3.18945e-12	9.20610e-12	2.40589e-11	5.77757e-11	1.29142e-10
100.000	1.04692e-11	2.90769e-11	7.22228e-11	1.63667e-10	3.43857e-10
10.0000	1.36705e-11	3.77545e-11	9.26172e-11	2.06795e-10	4.28053e-10
1.00000	1.69309e-11	4.72415e-11	1.17706e-10	2.68371e-10	5.70451e-10
0.100000	4.38195e-11	1.24929e-10	3.22351e-10	7.67200e-10	1.70870e-09
0.0100000	1.99998e-10	5.45307e-10	1.34209e-09	3.03235e-09	6.37526e-09
0.00100000	4.12485e-10	1.06245e-09	2.46264e-09	5.24060e-09	1.03975e-08
0.000100000	4.63487e-10	1.18183e-09	2.70784e-09	5.69606e-09	1.11785e-08
1.00000e-05	4.69228e-10	1.19528e-09	2.73530e-09	5.74661e-09	1.12644e-08
1.00000e-06	4.69809e-10	1.19664e-09	2.73808e-09	5.75172e-09	1.12730e-08
1.00000e-07	4.69868e-10	1.19678e-09	2.73836e-09	5.75224e-09	1.12739e-08
1.00000e-08	4.69873e-10	1.19679e-09	2.73839e-09	5.75229e-09	1.12740e-08
1.00000e-09	4.69874e-10	1.19679e-09	2.73839e-09	5.75229e-09	1.12740e-08

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	4.20470e-15	8.85810e-15	1.79330e-14	3.50788e-14	6.65919e-14
1.00000e+07	4.20450e-14	8.85757e-14	1.79317e-13	3.50758e-13	6.65853e-13
1.00000e+06	4.20322e-13	8.85221e-13	1.79189e-12	3.50465e-12	6.65195e-12
100000.	4.18076e-12	8.79910e-12	1.77928e-11	3.47565e-11	6.58724e-11
10000.0	3.97826e-11	8.30561e-11	1.66365e-10	3.21402e-10	6.01378e-10
1000.00	2.71536e-10	5.41680e-10	1.03227e-09	1.88968e-09	3.33813e-09
100.000	6.78351e-10	1.26935e-09	2.27117e-09	3.91081e-09	6.51487e-09
10.0000	8.33049e-10	1.54098e-09	2.73277e-09	4.67804e-09	7.77292e-09
1.00000	1.14670e-09	2.20409e-09	4.08600e-09	7.35440e-09	1.29176e-08
0.100000	3.59984e-09	7.23149e-09	1.39340e-08	2.58675e-08	4.64233e-08
0.0100000	1.26071e-08	2.36527e-08	4.23974e-08	7.30277e-08	1.21450e-07
0.00100000	1.94641e-08	3.47007e-08	5.93544e-08	9.79790e-08	1.56833e-07
0.000100000	2.07188e-08	3.66112e-08	6.21345e-08	1.01871e-07	1.62106e-07
1.00000e-05	2.08555e-08	3.68173e-08	6.24318e-08	1.02285e-07	1.62661e-07
1.00000e-06	2.08692e-08	3.68381e-08	6.24617e-08	1.02326e-07	1.62717e-07
1.00000e-07	2.08706e-08	3.68402e-08	6.24647e-08	1.02330e-07	1.62723e-07
1.00000e-08	2.08708e-08	3.68404e-08	6.24650e-08	1.02331e-07	1.62723e-07
1.00000e-09	2.08708e-08	3.68404e-08	6.24651e-08	1.02331e-07	1.62723e-07

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.23116e-13	2.22313e-13	3.92981e-13	6.81313e-13	1.16019e-12
1.00000e+07	1.23101e-12	2.22282e-12	3.92918e-12	6.81183e-12	1.15993e-11
1.00000e+06	1.22958e-11	2.21977e-11	3.92282e-11	6.79889e-11	1.15733e-10
100000.	1.21552e-10	2.18991e-10	3.86086e-10	6.67303e-10	1.13230e-09
10000.0	1.09345e-09	1.93708e-09	3.35052e-09	5.66800e-09	9.39056e-09
1000.00	5.71160e-09	9.49534e-09	1.53784e-08	2.43190e-08	3.76238e-08
100.000	1.05443e-08	1.66392e-08	2.56752e-08	3.88358e-08	5.77008e-08
10.0000	1.25933e-08	1.99696e-08	3.10924e-08	4.76603e-08	7.20859e-08
1.00000	2.22252e-08	3.75591e-08	6.24569e-08	1.02310e-07	1.65179e-07
0.100000	8.07564e-08	1.36468e-07	2.24443e-07	3.59858e-07	5.63327e-07
0.0100000	1.95797e-07	3.07033e-07	4.69661e-07	7.02556e-07	1.02990e-06
0.00100000	2.44364e-07	3.71796e-07	5.53825e-07	8.09430e-07	1.16282e-06
0.000100000	2.51304e-07	3.80703e-07	5.65005e-07	8.23188e-07	1.17944e-06
1.00000e-05	2.52031e-07	3.81631e-07	5.66163e-07	8.24606e-07	1.18116e-06
1.00000e-06	2.52103e-07	3.81724e-07	5.66279e-07	8.24749e-07	1.18133e-06

1.00000e-07	2.52111e-07	3.81733e-07	5.66291e-07	8.24763e-07	1.18135e-06
1.00000e-08	2.52111e-07	3.81734e-07	5.66292e-07	8.24764e-07	1.18135e-06
1.00000e-09	2.52111e-07	3.81734e-07	5.66292e-07	8.24764e-07	1.18135e-06

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	1.94265e-12	3.20094e-12	5.19236e-12	6.08065e-11	2.25186e-09
1.00000e+07	1.94214e-11	3.19996e-11	5.19052e-11	6.06688e-10	2.23516e-08
1.00000e+06	1.93707e-10	3.19023e-10	5.17226e-10	5.93501e-09	2.09267e-07
100000.	1.88829e-09	3.09717e-09	4.99852e-09	4.94531e-08	1.36265e-06
10000.0	1.52534e-08	2.43122e-08	3.80486e-08	2.06534e-07	3.55362e-06
1000.00	5.70432e-08	8.48805e-08	1.24114e-07	3.18399e-07	4.66316e-06
100.000	8.43574e-08	1.21532e-07	1.72749e-07	3.79968e-07	7.27313e-06
10.0000	1.07779e-07	1.59520e-07	2.33952e-07	7.72819e-07	2.04678e-05
1.00000	2.62872e-07	4.12288e-07	6.37027e-07	2.43726e-06	4.63282e-05
0.100000	8.62191e-07	1.29189e-06	1.89731e-06	4.56492e-06	6.08455e-05
0.0100000	1.48226e-06	2.09769e-06	2.92297e-06	5.16459e-06	6.35097e-05
0.00100000	1.64447e-06	2.29232e-06	3.15288e-06	5.21702e-06	6.37997e-05
0.000100000	1.66427e-06	2.31552e-06	3.17975e-06	5.22130e-06	6.38288e-05
1.00000e-05	1.66629e-06	2.31790e-06	3.18248e-06	5.22171e-06	6.38316e-05
1.00000e-06	1.66650e-06	2.31813e-06	3.18276e-06	5.22175e-06	6.38320e-05
1.00000e-07	1.66651e-06	2.31816e-06	3.18278e-06	5.22175e-06	6.38320e-05
1.00000e-08	1.66651e-06	2.31816e-06	3.18278e-06	5.22175e-06	6.38320e-05
1.00000e-09	1.66651e-06	2.31816e-06	3.18278e-06	5.22175e-06	6.38320e-05

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	5.48854e-08	1.41501e-06	1.84288e-05	0.000216859	0.00253312
1.00000e+07	5.13339e-07	8.76075e-06	9.83331e-05	0.000786679	0.00425429
1.00000e+06	4.25325e-06	5.02507e-05	0.000325599	0.00133047	0.00395127
100000.	1.78590e-05	0.000124186	0.000511021	0.00154373	0.00418495
10000.0	3.01701e-05	0.000164055	0.000702988	0.00255417	0.00785408
1000.00	4.11559e-05	0.000288067	0.00154011	0.00556503	0.0143191
100.000	9.49747e-05	0.000731646	0.00318138	0.00886358	0.0184382
10.0000	0.000238006	0.00130540	0.00428921	0.0101678	0.0194681
1.00000	0.000361035	0.00155103	0.00456682	0.0103924	0.0196039
0.100000	0.000395549	0.00159382	0.00460314	0.0104178	0.0196182
0.0100000	0.000400122	0.00159863	0.00460693	0.0104204	0.0196197
0.00100000	0.000400598	0.00159911	0.00460732	0.0104206	0.0196198
0.000100000	0.000400646	0.00159916	0.00460736	0.0104207	0.0196198
1.00000e-05	0.000400650	0.00159917	0.00460736	0.0104207	0.0196198
1.00000e-06	0.000400651	0.00159917	0.00460736	0.0104207	0.0196198
1.00000e-07	0.000400651	0.00159917	0.00460736	0.0104207	0.0196198
1.00000e-08	0.000400651	0.00159917	0.00460736	0.0104207	0.0196198
1.00000e-09	0.000400651	0.00159917	0.00460736	0.0104207	0.0196198

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	0.0124230	0.0262534	0.0351332	0.0368369	0.0336851
1.00000e+07	0.0128216	0.0251762	0.0405190	0.0574990	0.0691732
1.00000e+06	0.00947411	0.0204956	0.0399802	0.0645602	0.0832360
100000.	0.0108055	0.0250513	0.0477618	0.0724462	0.0908449
10000.0	0.0192014	0.0372217	0.0588261	0.0790319	0.0949778
1000.00	0.0280098	0.0449586	0.0627804	0.0795624	0.0942427
100.000	0.0314250	0.0467359	0.0630146	0.0789285	0.0933964
10.0000	0.0320015	0.0469230	0.0629618	0.0787694	0.0932213
1.00000	0.0320651	0.0469404	0.0629543	0.0787522	0.0932033
0.100000	0.0320716	0.0469423	0.0629537	0.0787507	0.0932017
0.0100000	0.0320723	0.0469424	0.0629537	0.0787507	0.0932017
0.00100000	0.0320723	0.0469425	0.0629537	0.0787507	0.0932017
0.000100000	0.0320723	0.0469425	0.0629537	0.0787507	0.0932017
1.00000e-05	0.0320723	0.0469425	0.0629537	0.0787507	0.0932017
1.00000e-06	0.0320723	0.0469425	0.0629537	0.0787507	0.0932017
1.00000e-07	0.0320723	0.0469425	0.0629537	0.0787507	0.0932017
1.00000e-08	0.0320723	0.0469425	0.0629537	0.0787507	0.0932017
1.00000e-09	0.0320723	0.0469425	0.0629537	0.0787507	0.0932017

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.0295994	0.127066	0.128166	0.121686	0.115264
1.00000e+07	0.0720628	0.125722	0.122824	0.118111	0.115978
1.00000e+06	0.0921275	0.115629	0.117762	0.121310	0.123733
100000.	0.101783	0.119360	0.127310	0.131419	0.131094
10000.0	0.106702	0.126666	0.134377	0.135720	0.133170
1000.00	0.106384	0.128286	0.135892	0.136470	0.133468
100.000	0.105718	0.128260	0.136045	0.136554	0.133501
10.0000	0.105578	0.128225	0.136057	0.136563	0.133504
1.00000	0.105564	0.128221	0.136059	0.136563	0.133504
0.100000	0.105563	0.128221	0.136059	0.136563	0.133505
0.0100000	0.105563	0.128221	0.136059	0.136563	0.133505

0.00100000	0.105563	0.128221	0.136059	0.136563	0.133505
0.000100000	0.105563	0.128221	0.136059	0.136563	0.133505
1.00000e-05	0.105563	0.128221	0.136059	0.136563	0.133505
1.00000e-06	0.105563	0.128221	0.136059	0.136563	0.133505
1.00000e-07	0.105563	0.128221	0.136059	0.136563	0.133505
1.00000e-08	0.105563	0.128221	0.136059	0.136563	0.133505
1.00000e-09	0.105563	0.128221	0.136059	0.136563	0.133505

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.110671	0.107588	0.105441	0.103750	0.102194
1.00000e+07	0.115269	0.114526	0.113141	0.111087	0.108566
1.00000e+06	0.123569	0.121360	0.118050	0.114342	0.110626
100000.	0.127992	0.123755	0.119280	0.114960	0.110936
10000.0	0.128899	0.124138	0.119442	0.115030	0.110967
1000.00	0.129012	0.124180	0.119458	0.115037	0.110970
100.000	0.129024	0.124185	0.119460	0.115037	0.110970
10.0000	0.129025	0.124185	0.119460	0.115038	0.110971
1.00000	0.129025	0.124185	0.119460	0.115037	0.110971
0.100000	0.129025	0.124185	0.119460	0.115037	0.110971
0.0100000	0.129025	0.124185	0.119460	0.115037	0.110971
0.00100000	0.129025	0.124185	0.119460	0.115037	0.110971
0.000100000	0.129025	0.124185	0.119460	0.115037	0.110971
1.00000e-05	0.129025	0.124185	0.119460	0.115037	0.110971
1.00000e-06	0.129025	0.124185	0.119460	0.115037	0.110971
1.00000e-07	0.129025	0.124185	0.119460	0.115037	0.110971
1.00000e-08	0.129025	0.124185	0.119460	0.115037	0.110971
1.00000e-09	0.129025	0.124185	0.119460	0.115037	0.110971

Pa\K	4000.00
1.00000e+08	0.100602
1.00000e+07	0.105811
1.00000e+06	0.107082
100000.	0.107240
10000.0	0.107255
1000.00	0.107256
100.000	0.107256
10.0000	0.107256
1.00000	0.107256
0.100000	0.107256
0.0100000	0.107256
0.00100000	0.107256
0.000100000	0.107256
1.00000e-05	0.107256
1.00000e-06	0.107256
1.00000e-07	0.107256
1.00000e-08	0.107256
1.00000e-09	0.107256

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	2.83510e-13	5.86080e-13	9.17755e-13	1.30219e-12	1.75668e-12
1.00000e+07	2.83510e-12	5.86079e-12	9.17753e-12	1.30219e-11	1.75667e-11
1.00000e+06	2.83508e-11	5.86069e-11	9.17728e-11	1.30214e-10	1.75659e-10
100000.	2.83483e-10	5.85964e-10	9.17480e-10	1.30167e-09	1.75577e-09
10000.0	2.83232e-09	5.84913e-09	9.15002e-09	1.29693e-08	1.74767e-08
1000.00	2.80749e-08	5.74607e-08	8.90926e-08	1.25140e-07	1.67044e-07
100.000	2.58057e-07	4.88081e-07	7.04037e-07	9.23495e-07	1.15388e-06
10.0000	1.41184e-06	1.90673e-06	2.21150e-06	2.47431e-06	2.73157e-06
1.00000	2.47199e-06	2.63021e-06	2.78297e-06	2.97155e-06	3.19688e-06
0.100000	2.84085e-06	3.37711e-06	4.22799e-06	5.43204e-06	7.05074e-06
0.0100000	1.18096e-05	2.80702e-05	4.70036e-05	6.87332e-05	9.38525e-05
0.00100000	0.000158635	0.000305882	0.000435775	0.000558742	0.000679501
0.000100000	0.000847761	0.00108782	0.00121213	0.00130654	0.00139205
1.00000e-05	0.00131764	0.00136610	0.00140808	0.00145757	0.00151486
1.00000e-06	0.00137751	0.00139577	0.00142805	0.00147272	0.00152709
1.00000e-07	0.00138347	0.00139872	0.00143004	0.00147423	0.00152831
1.00000e-08	0.00138406	0.00139902	0.00143024	0.00147438	0.00152844
1.00000e-09	0.00138412	0.00139905	0.00143026	0.00147439	0.00152845

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	2.29816e-12	2.94782e-12	3.73417e-12	4.69559e-12	5.88329e-12
1.00000e+07	2.29814e-11	2.94780e-11	3.73414e-11	4.69554e-11	5.88323e-11
1.00000e+06	2.29801e-10	2.94760e-10	3.73384e-10	4.69509e-10	5.88257e-10
100000.	2.29670e-09	2.94558e-09	3.73081e-09	4.69062e-09	5.87602e-09
10000.0	2.28369e-08	2.92556e-08	3.70080e-08	4.64635e-08	5.81130e-08

1000.00	2.16112e-07	2.73911e-07	3.42495e-07	4.24544e-07	5.23486e-07
100.000	1.39920e-06	1.66310e-06	1.94988e-06	2.26469e-06	2.61353e-06
10.0000	2.99572e-06	3.27387e-06	3.57231e-06	3.89773e-06	4.25738e-06
1.00000	3.45940e-06	3.76441e-06	4.12300e-06	4.55271e-06	5.07906e-06
0.100000	9.18359e-06	1.19822e-05	1.56614e-05	2.05099e-05	2.69034e-05
0.0100000	0.000123201	0.000157913	0.000199417	0.000249378	0.000309651
0.00100000	0.000800930	0.000925377	0.00105487	0.00119108	0.00133527
0.000100000	0.00147645	0.00156390	0.00165715	0.00175813	0.00186824
1.00000e-05	0.00157985	0.00165307	0.00173537	0.00182762	0.00193055
1.00000e-06	0.00159011	0.00166190	0.00174312	0.00183450	0.00193671
1.00000e-07	0.00159114	0.00166278	0.00174389	0.00183519	0.00193733
1.00000e-08	0.00159124	0.00166287	0.00174397	0.00183526	0.00193739
1.00000e-09	0.00159125	0.00166288	0.00174398	0.00183526	0.00193740

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	7.36541e-12	9.23250e-12	1.16051e-11	1.46441e-11	1.85645e-11
1.00000e+07	7.36532e-11	9.23236e-11	1.16049e-10	1.46438e-10	1.85641e-10
1.00000e+06	7.36437e-10	9.23095e-10	1.16028e-09	1.46407e-09	1.85595e-09
100000.	7.35480e-09	9.21696e-09	1.15823e-08	1.46105e-08	1.85145e-08
10000.0	7.26050e-08	9.07949e-08	1.13812e-07	1.43148e-07	1.80769e-07
1000.00	6.40365e-07	7.90481e-07	9.70717e-07	1.19271e-06	1.46666e-06
100.000	3.00331e-06	3.44185e-06	3.93814e-06	4.50240e-06	5.14636e-06
10.0000	4.65941e-06	5.11309e-06	5.62917e-06	6.22052e-06	6.90275e-06
1.00000	5.73814e-06	6.58062e-06	7.67743e-06	9.12722e-06	1.10661e-05
0.100000	3.53222e-05	4.63765e-05	6.08364e-05	7.96675e-05	0.000104070
0.0100000	0.000382220	0.000469152	0.000572531	0.000694392	0.000836652
0.00100000	0.00148843	0.00165130	0.00182445	0.00200840	0.00220364
0.000100000	0.00198847	0.00211962	0.00226226	0.00241695	0.00258417
1.00000e-05	0.00204475	0.00217071	0.00230885	0.00245955	0.00262321
1.00000e-06	0.00205033	0.00217578	0.00231347	0.00246377	0.00262709
1.00000e-07	0.00205089	0.00217629	0.00231393	0.00246419	0.00262746
1.00000e-08	0.00205094	0.00217634	0.00231397	0.00246424	0.00262750
1.00000e-09	0.00205095	0.00217634	0.00231398	0.00246424	0.00262751

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.36539e-11	3.02968e-11	3.90074e-11	5.04722e-11	6.56072e-11
1.00000e+07	2.36532e-10	3.02958e-10	3.90058e-10	5.04698e-10	6.56036e-10
1.00000e+06	2.36465e-09	3.02856e-09	3.89902e-09	5.04459e-09	6.55667e-09
100000.	2.35789e-08	3.01836e-08	3.88351e-08	5.02082e-08	6.52002e-08
10000.0	2.29271e-07	2.92060e-07	3.73598e-07	4.79703e-07	6.17918e-07
1000.00	1.80498e-06	2.2257e-06	2.73714e-06	3.36952e-06	4.14393e-06
100.000	5.88349e-06	6.72919e-06	7.70115e-06	8.81962e-06	1.01078e-05
10.0000	7.69528e-06	8.62270e-06	9.71675e-06	1.10189e-05	1.25841e-05
1.00000	1.36800e-05	1.72195e-05	2.20183e-05	2.85148e-05	3.72768e-05
0.100000	0.000135515	0.000175781	0.000226972	0.000291527	0.000372199
0.0100000	0.00100102	0.00118893	0.00140148	0.00163938	0.00190296
0.00100000	0.00241064	0.00262986	0.00286180	0.00310690	0.00336560
0.000100000	0.00276442	0.00295818	0.00316592	0.00338810	0.00362513
1.00000e-05	0.00280024	0.00299108	0.00319614	0.00341586	0.00365063
1.00000e-06	0.00280379	0.00299434	0.00319914	0.00341863	0.00365317
1.00000e-07	0.00280415	0.00299467	0.00319945	0.00341890	0.00365343
1.00000e-08	0.00280419	0.00299470	0.00319948	0.00341892	0.00365345
1.00000e-09	0.00280419	0.00299470	0.00319948	0.00341893	0.00365345

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	8.56320e-11	1.12168e-10	1.47361e-10	1.94054e-10	2.55991e-10
1.00000e+07	8.56263e-10	1.12159e-09	1.47348e-09	1.94033e-09	2.55956e-09
1.00000e+06	8.55690e-09	1.12069e-08	1.47208e-08	1.93814e-08	2.55613e-08
100000.	8.50012e-08	1.11186e-07	1.45831e-07	1.91663e-07	2.52252e-07
10000.0	7.97961e-07	1.03227e-06	1.33661e-06	1.73086e-06	2.23976e-06
1000.00	5.08826e-06	6.23434e-06	7.61808e-06	9.27979e-06	1.12643e-05
100.000	1.15923e-05	1.33038e-05	1.52777e-05	1.75550e-05	2.01835e-05
10.0000	1.44856e-05	1.68208e-05	1.97198e-05	2.33544e-05	2.79500e-05
1.00000	4.90306e-05	6.46908e-05	8.53942e-05	0.000112530	0.000147774
0.100000	0.000472007	0.000594171	0.000741992	0.000918735	0.00112749
0.0100000	0.00219212	0.00250644	0.00284511	0.00320709	0.00359109
0.00100000	0.00363829	0.00392529	0.00422683	0.00454310	0.00487413
0.000100000	0.00387739	0.00414518	0.00442871	0.00472810	0.00504338
1.00000e-05	0.00390080	0.00416665	0.00444838	0.00474610	0.00505984
1.00000e-06	0.00390313	0.00416879	0.00445034	0.00474789	0.00506148
1.00000e-07	0.00390336	0.00416900	0.00445053	0.00474808	0.00506164
1.00000e-08	0.00390338	0.00416902	0.00445055	0.00474810	0.00506165
1.00000e-09	0.00390339	0.00416902	0.00445055	0.00474810	0.00506166

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	3.38080e-10	4.46738e-10	5.90285e-10	2.63421e-09	3.11703e-08

1.00000e+07	3.38026e-09	4.46654e-09	5.90154e-09	2.63142e-08	3.10391e-07
1.00000e+06	3.37489e-08	4.45813e-08	5.88841e-08	2.60411e-07	2.98396e-06
100000.	3.32242e-07	4.37640e-07	5.76153e-07	2.37496e-06	2.25280e-05
10000.0	2.89383e-06	3.73030e-06	4.79399e-06	1.39872e-05	7.94212e-05
1000.00	1.36212e-05	1.64050e-05	1.96754e-05	3.24985e-05	0.000123682
100.000	2.32197e-05	2.67304e-05	3.07950e-05	4.32933e-05	0.000216448
10.0000	3.37986e-05	4.12742e-05	5.08493e-05	0.000120200	0.000967334
1.00000	0.000193104	0.000250821	0.000323541	0.000808394	0.00407241
0.100000	0.00137098	0.00165153	0.00197079	0.00328240	0.00850978
0.0100000	0.00399565	0.00441926	0.00486032	0.00582764	0.0103723
0.00100000	0.00521988	0.00558024	0.00595495	0.00649488	0.0106468
0.000100000	0.00537446	0.00572117	0.00608323	0.00656981	0.0106742
1.00000e-05	0.00538949	0.00573488	0.00609571	0.00657725	0.0106769
1.00000e-06	0.00539099	0.00573624	0.00609695	0.00657800	0.0106772
1.00000e-07	0.00539114	0.00573638	0.00609707	0.00657807	0.0106772
1.00000e-08	0.00539115	0.00573640	0.00609709	0.00657808	0.0106772
1.00000e-09	0.00539115	0.00573640	0.00609709	0.00657808	0.0106772

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	3.18746e-07	3.07497e-06	2.64481e-05	0.000234662	0.00204282
1.00000e+07	3.11949e-06	2.63613e-05	0.000189175	0.00110587	0.00459875
1.00000e+06	2.73352e-05	0.000180085	0.000811364	0.00253260	0.00592479
100000.	0.000142052	0.000564962	0.00156080	0.00345398	0.00712576
10000.0	0.000301254	0.000868945	0.00226001	0.00571736	0.0137096
1000.00	0.000438537	0.00156610	0.00526147	0.0139376	0.0286282
100.000	0.00118837	0.00492940	0.0137502	0.0270269	0.0423054
10.0000	0.00457587	0.0124793	0.0233503	0.0352071	0.0474142
1.00000	0.0107325	0.0188239	0.0275079	0.0373091	0.0482908
0.100000	0.0145237	0.0207811	0.0282623	0.0375756	0.0483808
0.0100000	0.0153358	0.0210484	0.0283417	0.0376008	0.0483892
0.00100000	0.0154250	0.0210747	0.0283494	0.0376033	0.0483900
0.000100000	0.0154337	0.0210773	0.0283502	0.0376035	0.0483901
1.00000e-05	0.0154345	0.0210776	0.0283503	0.0376036	0.0483901
1.00000e-06	0.0154346	0.0210776	0.0283503	0.0376036	0.0483901
1.00000e-07	0.0154346	0.0210776	0.0283503	0.0376036	0.0483901
1.00000e-08	0.0154346	0.0210776	0.0283503	0.0376036	0.0483901
1.00000e-09	0.0154346	0.0210776	0.0283503	0.0376036	0.0483901

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	0.00827179	0.0155117	0.0194692	0.0198899	0.0180116
1.00000e+07	0.0112441	0.0186911	0.0263749	0.0344539	0.0398687
1.00000e+06	0.0113050	0.0198550	0.0327753	0.0471615	0.0568115
100000.	0.0145807	0.0281736	0.0467092	0.0634723	0.0730983
10000.0	0.0280816	0.0471700	0.0656549	0.0785958	0.0852748
1000.00	0.0464979	0.0632799	0.0761508	0.0845613	0.0892773
100.000	0.0567726	0.0690763	0.0787080	0.0855722	0.0898212
10.0000	0.0593021	0.0701040	0.0790537	0.0856728	0.0898621
1.00000	0.0596324	0.0702190	0.0790900	0.0856841	0.0898679
0.100000	0.0596637	0.0702297	0.0790940	0.0856854	0.0898688
0.0100000	0.0596667	0.0702309	0.0790946	0.0856859	0.0898693
0.00100000	0.0596670	0.0702309	0.0790946	0.0856859	0.0898693
0.000100000	0.0596670	0.0702309	0.0790946	0.0856859	0.0898693
1.00000e-05	0.0596670	0.0702309	0.0790946	0.0856859	0.0898693
1.00000e-06	0.0596670	0.0702309	0.0790946	0.0856859	0.0898693
1.00000e-07	0.0596670	0.0702309	0.0790946	0.0856859	0.0898693
1.00000e-08	0.0596670	0.0702309	0.0790946	0.0856859	0.0898693
1.00000e-09	0.0596670	0.0702309	0.0790946	0.0856859	0.0898693

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.0157486	0.0549801	0.0557430	0.0536035	0.0512371
1.00000e+07	0.0408703	0.0606034	0.0600773	0.0580477	0.0561089
1.00000e+06	0.0604207	0.0660808	0.0653391	0.0642209	0.0621868
100000.	0.0765024	0.0767223	0.0748065	0.0713756	0.0666233
10000.0	0.0876360	0.0861187	0.0809906	0.0744680	0.0679262
1000.00	0.0912557	0.0894844	0.0827215	0.0751094	0.0681341
100.000	0.0917871	0.0900835	0.0829904	0.0751939	0.0681583
10.0000	0.0918348	0.0901521	0.0830204	0.0752030	0.0681608
1.00000	0.0918412	0.0901598	0.0830239	0.0752040	0.0681609
0.100000	0.0918420	0.0901605	0.0830241	0.0752040	0.0681609
0.0100000	0.0918421	0.0901606	0.0830241	0.0752040	0.0681609
0.00100000	0.0918421	0.0901606	0.0830241	0.0752040	0.0681609
0.000100000	0.0918421	0.0901606	0.0830241	0.0752040	0.0681609
1.00000e-05	0.0918421	0.0901606	0.0830241	0.0752040	0.0681609
1.00000e-06	0.0918421	0.0901606	0.0830241	0.0752040	0.0681609
1.00000e-07	0.0918421	0.0901606	0.0830241	0.0752040	0.0681609
1.00000e-08	0.0918421	0.0901606	0.0830241	0.0752040	0.0681609
1.00000e-09	0.0918421	0.0901606	0.0830241	0.0752040	0.0681609

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.0492590	0.0475932	0.0461321	0.0448023	0.0435615
1.00000e+07	0.0542911	0.0524044	0.0504198	0.0484088	0.0464619
1.00000e+06	0.0592654	0.0559803	0.0527760	0.0498765	0.0473474
100000.	0.0616631	0.0571748	0.0533472	0.0501465	0.0474757
10000.0	0.0621705	0.0573683	0.0534217	0.0501762	0.0474879
1000.00	0.0622367	0.0573901	0.0534292	0.0501790	0.0474889
100.000	0.0622439	0.0573922	0.0534300	0.0501792	0.0474891
10.0000	0.0622444	0.0573925	0.0534300	0.0501792	0.0474891
1.00000	0.0622446	0.0573925	0.0534299	0.0501791	0.0474891
0.100000	0.0622446	0.0573925	0.0534299	0.0501791	0.0474891
0.0100000	0.0622446	0.0573925	0.0534299	0.0501791	0.0474891
0.00100000	0.0622446	0.0573925	0.0534299	0.0501791	0.0474891
0.000100000	0.0622446	0.0573925	0.0534299	0.0501791	0.0474891
1.00000e-05	0.0622446	0.0573925	0.0534299	0.0501791	0.0474891
1.00000e-06	0.0622446	0.0573925	0.0534299	0.0501791	0.0474891
1.00000e-07	0.0622446	0.0573925	0.0534299	0.0501791	0.0474891
1.00000e-08	0.0622446	0.0573925	0.0534299	0.0501791	0.0474891
1.00000e-09	0.0622446	0.0573925	0.0534299	0.0501791	0.0474891

Pa\K	4000.00
1.00000e+08	0.0423875
1.00000e+07	0.0446457
1.00000e+06	0.0451728
100000.	0.0452352
10000.0	0.0452402
1000.00	0.0452407
100.000	0.0452406
10.0000	0.0452408
1.00000	0.0452408
0.100000	0.0452408
0.0100000	0.0452408
0.00100000	0.0452408
0.000100000	0.0452408
1.00000e-05	0.0452408
1.00000e-06	0.0452408
1.00000e-07	0.0452408
1.00000e-08	0.0452408
1.00000e-09	0.0452408

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.13123e-35	4.36650e-32	4.32725e-30	8.24068e-29	6.86423e-28
1.00000e+07	1.95438e-31	4.45779e-29	4.14528e-27	7.93592e-26	6.63527e-25
1.00000e+06	2.84702e-27	9.08311e-26	4.37062e-24	7.95979e-23	6.59143e-22
100000.	2.95009e-23	5.41484e-22	6.52972e-21	8.20422e-20	6.22313e-19
10000.0	2.57386e-19	3.89475e-18	2.08658e-17	9.93015e-17	4.56232e-16
1000.00	1.10132e-15	1.14179e-14	4.41186e-14	1.24433e-13	3.13312e-13
100.000	1.48953e-12	1.17822e-11	3.86517e-11	9.23395e-11	1.88903e-10
10.0000	7.60245e-10	3.74235e-09	8.80075e-09	1.60566e-08	2.59073e-08
1.00000	5.94720e-08	1.57658e-07	2.71952e-07	4.08816e-07	5.76851e-07
0.100000	1.04471e-06	2.48546e-06	4.28967e-06	6.58435e-06	9.52080e-06
0.0100000	1.83183e-05	4.45579e-05	7.43943e-05	0.000108744	0.000148888
0.00100000	0.000244668	0.000470576	0.000673057	0.000868719	0.00106512
0.000100000	0.00130829	0.00169381	0.00190287	0.00206803	0.00222202
1.00000e-05	0.00207345	0.00215923	0.00223627	0.00232845	0.00243618
1.00000e-06	0.00217762	0.00221129	0.00227151	0.00235532	0.00245800
1.00000e-07	0.00218811	0.00221651	0.00227504	0.00235801	0.00246019
1.00000e-08	0.00218916	0.00221703	0.00227539	0.00235828	0.00246041
1.00000e-09	0.00218926	0.00221709	0.00227543	0.00235831	0.00246043

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	3.55804e-27	1.36974e-26	4.32643e-26	1.19220e-25	2.98495e-25
1.00000e+07	3.44457e-24	1.32597e-23	4.18296e-23	1.15007e-22	2.87027e-22
1.00000e+06	3.40650e-21	1.30676e-20	4.10860e-20	1.12567e-19	2.79859e-19
100000.	3.09317e-18	1.15378e-17	3.53639e-17	9.44414e-17	2.28543e-16
10000.0	1.76782e-15	5.65699e-15	1.54645e-14	3.75068e-14	8.32156e-14
1000.00	7.50459e-13	1.72084e-12	3.75661e-12	7.80109e-12	1.54838e-11
100.000	3.54617e-10	6.32321e-10	1.09006e-09	1.83296e-09	3.02016e-09
10.0000	3.90343e-08	5.64948e-08	7.98306e-08	1.11204e-07	1.53594e-07
1.00000	7.87831e-07	1.05897e-06	1.41520e-06	1.89207e-06	2.53972e-06
0.100000	1.33049e-05	1.82301e-05	2.47038e-05	3.32721e-05	4.46513e-05
0.0100000	0.00196461	0.00253636	0.00323162	0.00408304	0.00512782
0.00100000	0.00126706	0.00147871	0.00170390	0.00194589	0.00220741

0.000100000	0.00237731	0.00254100	0.00271809	0.00291236	0.00312676
1.00000e-05	0.00255944	0.00269952	0.00285838	0.00303806	0.00324043
1.00000e-06	0.00257786	0.00271548	0.00287246	0.00305066	0.00325181
1.00000e-07	0.00257971	0.00271708	0.00287386	0.00305192	0.00325294
1.00000e-08	0.00257989	0.00271724	0.00287400	0.00305205	0.00325306
1.00000e-09	0.00257991	0.00271725	0.00287402	0.00305206	0.00325307

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	6.98507e-25	1.55920e-24	3.37009e-24	7.13135e-24	1.48924e-23
1.00000e+07	6.68887e-22	1.48545e-21	3.19105e-21	6.70463e-21	1.38890e-20
1.00000e+06	6.49365e-19	1.43498e-18	3.06507e-18	6.39722e-18	1.31497e-17
100000.	5.15036e-16	1.10221e-15	2.27212e-15	4.55871e-15	8.96918e-15
10000.0	1.72871e-13	3.42182e-13	6.53928e-13	1.21856e-12	2.23068e-12
1000.00	2.95896e-11	5.48608e-11	9.93606e-11	1.76765e-10	3.10170e-10
100.000	4.88902e-09	7.79008e-09	1.22365e-08	1.89740e-08	2.90780e-08
10.0000	2.11102e-07	2.89408e-07	3.96446e-07	5.43405e-07	7.46173e-07
1.00000	3.42880e-06	4.65886e-06	6.36996e-06	8.75829e-06	1.20966e-05
0.100000	5.97699e-05	7.98246e-05	0.000106351	0.000141305	0.000187158
0.0100000	0.000640695	0.000796442	0.000984632	0.00120997	0.00147706
0.00100000	0.00249070	0.00279762	0.00312979	0.00348874	0.00387600
0.000100000	0.00336361	0.00362484	0.00391218	0.00422725	0.00457166
1.00000e-05	0.00346713	0.00371964	0.00399932	0.00430759	0.00464588
1.00000e-06	0.00347748	0.00372910	0.00400802	0.00431560	0.00465328
1.00000e-07	0.00347852	0.00373005	0.00400889	0.00431641	0.00465402
1.00000e-08	0.00347862	0.00373014	0.00400898	0.00431649	0.00465410
1.00000e-09	0.00347863	0.00373015	0.00400898	0.00431650	0.00465411

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.08640e-23	6.37149e-23	1.31310e-22	2.70461e-22	5.56923e-22
1.00000e+07	2.85290e-20	5.83297e-20	1.18989e-19	2.42489e-19	4.93910e-19
1.00000e+06	2.67672e-17	5.41544e-17	1.09135e-16	2.19311e-16	4.39601e-16
100000.	1.73962e-14	3.33814e-14	6.35197e-14	1.20023e-13	2.25372e-13
10000.0	4.03321e-12	7.23054e-12	1.28861e-11	2.28658e-11	4.04299e-11
1000.00	5.38286e-10	9.25360e-10	1.57669e-09	2.66232e-09	4.45247e-09
100.000	4.40898e-08	6.62049e-08	9.85352e-08	1.45474e-07	2.13203e-07
10.0000	1.02742e-06	1.41956e-06	1.96895e-06	2.74170e-06	3.83145e-06
1.00000	1.67609e-05	2.32631e-05	3.22924e-05	4.47654e-05	6.18846e-05
0.100000	0.000246992	0.000324588	0.000424495	0.000552071	0.000713467
0.0100000	0.00179033	0.00215380	0.00257093	0.00304453	0.00357668
0.00100000	0.00429309	0.00474157	0.00522303	0.00573904	0.00629115
0.000100000	0.00494705	0.00535506	0.00579738	0.00627565	0.00679148
1.00000e-05	0.00501571	0.00541863	0.00585625	0.00633018	0.00684196
1.00000e-06	0.00502255	0.00542497	0.00586212	0.00633562	0.00684699
1.00000e-07	0.00502324	0.00542561	0.00586271	0.00633616	0.00684750
1.00000e-08	0.00502331	0.00542567	0.00586277	0.00633621	0.00684755
1.00000e-09	0.00502332	0.00542568	0.00586278	0.00633622	0.00684756

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.14614e-21	2.35555e-21	4.82847e-21	9.85389e-21	1.99735e-20
1.00000e+07	1.00534e-18	2.04370e-18	4.14469e-18	8.37229e-18	1.68087e-17
1.00000e+06	8.78694e-16	1.75022e-15	3.47027e-15	6.83953e-15	1.33750e-14
100000.	4.20661e-13	7.80474e-13	1.43902e-12	2.63539e-12	4.79019e-12
10000.0	7.12407e-11	1.25055e-10	2.18521e-10	3.79694e-10	6.55152e-10
1000.00	7.36916e-09	1.20598e-08	1.94995e-08	3.11324e-08	4.90578e-08
100.000	3.10393e-07	4.49181e-07	6.46501e-07	9.25897e-07	1.31995e-06
10.0000	5.36989e-06	7.54022e-06	1.05943e-05	1.48741e-05	2.08372e-05
1.00000	8.52071e-05	0.000116721	0.000158926	0.000214922	0.000288483
0.100000	0.000915559	0.00116581	0.00147204	0.00184219	0.00228396
0.0100000	0.00416865	0.00482096	0.00553336	0.00630494	0.00713421
0.00100000	0.00688077	0.00750924	0.00817768	0.00888700	0.00963789
0.000100000	0.00734635	0.00794161	0.00857842	0.00925772	0.00998019
1.00000e-05	0.00739305	0.00798479	0.00861829	0.00929450	0.0100141
1.00000e-06	0.00739771	0.00798910	0.00862227	0.00929816	0.0100174
1.00000e-07	0.00739817	0.00798953	0.00862267	0.00929853	0.0100178
1.00000e-08	0.00739822	0.00798957	0.00862271	0.00929857	0.0100178
1.00000e-09	0.00739823	0.00798957	0.00862271	0.00929857	0.0100178

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	4.00953e-20	7.94556e-20	1.54931e-19	1.46876e-17	3.51295e-14
1.00000e+07	3.34507e-17	6.57864e-17	1.27458e-16	1.15046e-14	1.32217e-11
1.00000e+06	2.58949e-14	4.95132e-14	9.32611e-14	4.79499e-12	1.66157e-09
100000.	8.63210e-12	1.54000e-11	2.71540e-11	6.76401e-10	6.99760e-08
10000.0	1.12085e-09	1.89809e-09	3.17601e-09	4.40199e-08	1.62262e-06
1000.00	7.62779e-08	1.17010e-07	1.77074e-07	1.16845e-06	2.27859e-05
100.000	1.87345e-06	2.64740e-06	3.72402e-06	1.76676e-05	0.000261783
10.0000	2.90870e-05	4.04078e-05	5.58016e-05	0.000224861	0.00223299

1.00000	0.000384122	0.000507141	0.000663629	0.00190611	0.0101666
0.100000	0.00280452	0.00341011	0.00410577	0.00763583	0.0210996
0.0100000	0.00801917	0.00895743	0.00994634	0.0132650	0.0255382
0.00100000	0.0104308	0.0112658	0.0121427	0.0147208	0.0261955
0.000100000	0.0107462	0.0115559	0.0124090	0.0148888	0.0262625
1.00000e-05	0.0107774	0.0115845	0.0124353	0.0149057	0.0262692
1.00000e-06	0.0107805	0.0115874	0.0124379	0.0149074	0.0262699
1.00000e-07	0.0107808	0.0115877	0.0124382	0.0149076	0.0262700
1.00000e-08	0.0107808	0.0115877	0.0124382	0.0149076	0.0262700
1.00000e-09	0.0107808	0.0115877	0.0124382	0.0149076	0.0262700

Pa\K | 500.000 600.000 700.000 800.000 900.000

1.00000e+08	9.63063e-11	2.42973e-08	3.55657e-07	1.91674e-06	1.02497e-05
1.00000e+07	3.40836e-09	2.14968e-07	2.62709e-06	1.27011e-05	5.71290e-05
1.00000e+06	1.03609e-07	1.84148e-06	1.36438e-05	6.38345e-05	0.000276014
100000.	1.81622e-06	1.84366e-05	0.000111457	0.000487404	0.00180403
10000.0	2.33271e-05	0.000180162	0.000953286	0.00351895	0.00977939
1000.00	0.000244688	0.00155745	0.00632496	0.0165087	0.0311388
100.000	0.00210491	0.00922148	0.0239372	0.0413317	0.0552893
10.0000	0.0108670	0.0280629	0.0467352	0.0596814	0.0661630
1.00000	0.0269717	0.0447170	0.0575415	0.0650070	0.0682907
0.100000	0.0367355	0.0499305	0.0596034	0.0657349	0.0685244
0.0100000	0.0388011	0.0506506	0.0598265	0.0658053	0.0685462
0.00100000	0.0390319	0.0507228	0.0598482	0.0658122	0.0685483
0.000100000	0.0390548	0.0507299	0.0598504	0.0658129	0.0685485
1.00000e-05	0.0390570	0.0507306	0.0598506	0.0658130	0.0685485
1.00000e-06	0.0390573	0.0507307	0.0598506	0.0658130	0.0685486
1.00000e-07	0.0390573	0.0507307	0.0598506	0.0658130	0.0685486
1.00000e-08	0.0390573	0.0507307	0.0598506	0.0658130	0.0685486
1.00000e-09	0.0390573	0.0507307	0.0598506	0.0658130	0.0685486

Pa\K | 1000.00 1100.00 1200.00 1300.00 1400.00

1.00000e+08	5.04097e-05	0.000162428	0.000424289	0.00104002	0.00168811
1.00000e+07	0.000249358	0.000900885	0.00258946	0.00551665	0.00817559
1.00000e+06	0.00108497	0.00352192	0.00840904	0.0141842	0.0179529
100000.	0.00538797	0.0124188	0.0215190	0.0284895	0.0311122
10000.0	0.0201807	0.0320638	0.0409388	0.0442839	0.0433697
1000.00	0.0448599	0.0532879	0.0556331	0.0537354	0.0498723
100.000	0.0623061	0.0634158	0.0608937	0.0566019	0.0516995
10.0000	0.0675393	0.0656497	0.0618446	0.0570696	0.0519845
1.00000	0.0683082	0.0659241	0.0619519	0.0571214	0.0520157
0.100000	0.0683839	0.0659505	0.0619623	0.0571270	0.0520190
0.0100000	0.0683910	0.0659529	0.0619635	0.0571276	0.0520195
0.00100000	0.0683917	0.0659535	0.0619641	0.0571276	0.0520195
0.000100000	0.0683917	0.0659535	0.0619641	0.0571276	0.0520195
1.00000e-05	0.0683917	0.0659535	0.0619641	0.0571276	0.0520195
1.00000e-06	0.0683917	0.0659535	0.0619641	0.0571276	0.0520195
1.00000e-07	0.0683917	0.0659535	0.0619641	0.0571276	0.0520195
1.00000e-08	0.0683917	0.0659535	0.0619641	0.0571276	0.0520195
1.00000e-09	0.0683917	0.0659535	0.0619641	0.0571276	0.0520195

Pa\K | 1500.00 1750.00 2000.00 2250.00 2500.00

1.00000e+08	0.00170504	0.00778568	0.00941807	0.00961490	0.00948724
1.00000e+07	0.00904804	0.0118873	0.0128356	0.0128175	0.0127442
1.00000e+06	0.0191724	0.0186390	0.0182525	0.0177276	0.0171050
100000.	0.0307088	0.0272966	0.0247784	0.0224237	0.0200323
10000.0	0.0405552	0.0342071	0.0288239	0.0244191	0.0208844
1000.00	0.0454848	0.0371820	0.0300606	0.0248484	0.0210208
100.000	0.0468170	0.0378749	0.0302777	0.0249073	0.0210363
10.0000	0.0470199	0.0379735	0.0303041	0.0249135	0.0210379
1.00000	0.0470418	0.0379841	0.0303068	0.0249142	0.0210380
0.100000	0.0470441	0.0379851	0.0303070	0.0249142	0.0210380
0.0100000	0.0470444	0.0379853	0.0303071	0.0249142	0.0210381
0.00100000	0.0470444	0.0379853	0.0303071	0.0249142	0.0210381
0.000100000	0.0470444	0.0379853	0.0303071	0.0249142	0.0210381
1.00000e-05	0.0470444	0.0379853	0.0303071	0.0249142	0.0210381
1.00000e-06	0.0470444	0.0379853	0.0303071	0.0249142	0.0210381
1.00000e-07	0.0470444	0.0379853	0.0303071	0.0249142	0.0210381
1.00000e-08	0.0470444	0.0379853	0.0303071	0.0249142	0.0210381
1.00000e-09	0.0470444	0.0379853	0.0303071	0.0249142	0.0210381

Pa\K | 2750.00 3000.00 3250.00 3500.00 3750.00

1.00000e+08	0.00937931	0.00931136	0.00925976	0.00919622	0.00909933
1.00000e+07	0.0126641	0.0124652	0.0121062	0.0116159	0.0110524
1.00000e+06	0.0161550	0.0149919	0.0137952	0.0126812	0.0116979
100000.	0.0177762	0.0158239	0.0142043	0.0128783	0.0117920

10000.0	0.0181162	0.0159572	0.0142569	0.0128994	0.0118006
1000.00	0.0181596	0.0159716	0.0142619	0.0129012	0.0118012
100.000	0.0181639	0.0159729	0.0142623	0.0129013	0.0118012
10.0000	0.0181643	0.0159730	0.0142624	0.0129013	0.0118013
1.00000	0.0181644	0.0159730	0.0142623	0.0129013	0.0118013
0.100000	0.0181644	0.0159730	0.0142623	0.0129013	0.0118013
0.0100000	0.0181644	0.0159730	0.0142623	0.0129013	0.0118013
0.00100000	0.0181644	0.0159730	0.0142623	0.0129013	0.0118013
0.000100000	0.0181644	0.0159730	0.0142623	0.0129013	0.0118013
1.00000e-05	0.0181644	0.0159730	0.0142623	0.0129013	0.0118013
1.00000e-06	0.0181644	0.0159730	0.0142623	0.0129013	0.0118013
1.00000e-07	0.0181644	0.0159730	0.0142623	0.0129013	0.0118013
1.00000e-08	0.0181644	0.0159730	0.0142623	0.0129013	0.0118013
1.00000e-09	0.0181644	0.0159730	0.0142623	0.0129013	0.0118013

Pa\K | 4000.00

1.00000e+08	0.00895930
1.00000e+07	0.0104710
1.00000e+06	0.0108518
100000.	0.0108966
10000.0	0.0109001
1000.00	0.0109002
100.000	0.0109003
10.0000	0.0109003
1.00000	0.0109003
0.100000	0.0109003
0.0100000	0.0109003
0.00100000	0.0109003
0.000100000	0.0109003
1.00000e-05	0.0109003
1.00000e-06	0.0109003
1.00000e-07	0.0109003
1.00000e-08	0.0109003
1.00000e-09	0.0109003

rad7

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08	9.40319e-18	1.52809e-15	6.33096e-14	6.30263e-13	3.02445e-12
1.00000e+07	2.55255e-15	2.64005e-14	6.58860e-13	6.34926e-12	3.03185e-11
1.00000e+06	3.14330e-13	1.45217e-12	9.26367e-12	6.82717e-11	3.10715e-10
100000.	3.21587e-11	1.33410e-10	3.60005e-10	1.16006e-09	3.85880e-09
10000.0	3.21207e-09	1.31302e-08	3.00241e-08	5.85891e-08	1.12277e-07
1000.00	3.10224e-07	1.22269e-06	2.65318e-06	4.61204e-06	7.19272e-06
100.000	2.23104e-05	6.53219e-05	0.000109005	0.000148289	0.000182083
10.0000	0.000261815	0.000285208	0.000274727	0.000263079	0.000253353
1.00000	0.000218460	0.000191054	0.000177868	0.000169550	0.000163620
0.100000	0.000144333	0.000129244	0.000121813	0.000117017	0.000113516
0.0100000	0.000101987	9.18831e-05	8.61670e-05	8.19507e-05	7.84442e-05
0.00100000	6.66393e-05	5.17495e-05	4.17886e-05	3.42362e-05	2.82300e-05
0.000100000	1.38689e-05	4.39711e-06	1.86694e-06	9.26834e-07	5.08159e-07
1.00000e-05	7.98104e-08	9.21579e-09	2.56468e-09	1.01743e-09	4.88640e-10
1.00000e-06	6.45241e-11	7.88098e-12	2.42868e-12	1.05570e-12	5.48870e-13
1.00000e-07	9.72936e-14	1.62037e-14	5.96185e-15	2.93335e-15	1.67785e-15
1.00000e-08	4.06011e-16	9.10159e-17	3.94539e-17	2.17402e-17	1.35611e-17
1.00000e-09	4.38022e-18	1.29351e-18	6.53215e-19	3.99982e-19	2.70442e-19

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08	9.53541e-12	2.30738e-11	4.67363e-11	8.35061e-11	1.36132e-10
1.00000e+07	9.54619e-11	2.30885e-10	4.67555e-10	8.35301e-10	1.36161e-09
1.00000e+06	9.65541e-10	2.32376e-09	4.69494e-09	8.37725e-09	1.36454e-08
100000.	1.07452e-08	2.47242e-08	4.88820e-08	8.61870e-08	1.39369e-07
10000.0	2.13829e-07	3.91690e-07	6.75680e-07	1.09406e-06	1.67236e-06
1000.00	1.05487e-05	1.48515e-05	2.02529e-05	2.68634e-05	3.47469e-05
100.000	0.000210528	0.000234154	0.000253567	0.000269346	0.000282004
10.0000	0.000245448	0.000238956	0.000233533	0.000228923	0.000224934
1.00000	0.000159090	0.000155467	0.000152477	0.000149945	0.000147752
0.100000	0.000110769	0.000108505	0.000106567	0.000104853	0.000103290
0.0100000	7.53193e-05	7.24028e-05	6.95880e-05	6.68027e-05	6.39969e-05
0.00100000	2.33419e-05	1.93118e-05	1.59644e-05	1.31736e-05	1.08448e-05
0.000100000	2.98650e-07	1.84750e-07	1.18848e-07	7.88244e-08	5.35682e-08
1.00000e-05	2.64519e-10	1.55375e-10	9.67883e-11	6.29981e-11	4.24122e-11
1.00000e-06	3.18525e-13	1.99051e-13	1.31126e-13	8.98239e-14	6.33941e-14
1.00000e-07	1.05259e-15	7.02667e-16	4.90272e-16	3.53433e-16	2.61198e-16
1.00000e-08	9.12743e-18	6.46554e-18	4.74918e-18	3.58285e-18	2.75812e-18
1.00000e-09	1.94306e-19	1.45413e-19	1.12007e-19	8.81123e-20	7.04203e-20

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.07147e-10	2.98970e-10	4.14047e-10	5.55011e-10	7.24838e-10
1.00000e+07	2.07181e-09	2.99009e-09	4.14091e-09	5.55057e-09	7.24886e-09
1.00000e+06	2.07525e-08	2.99400e-08	4.14524e-08	5.55524e-08	7.25371e-08
100000.	2.10940e-07	3.03290e-07	4.18833e-07	5.60156e-07	7.30178e-07
10000.0	2.43360e-06	3.39912e-06	4.58995e-06	6.02799e-06	7.73732e-06
1000.00	4.39243e-05	5.43809e-05	6.60733e-05	7.89363e-05	9.28863e-05
100.000	0.000291994	0.000299711	0.000305494	0.000309640	0.000312406
10.0000	0.000221422	0.000218277	0.000215409	0.000212752	0.000210251
1.00000	0.000145812	0.000144057	0.000142438	0.000140911	0.000139444
0.100000	0.000101821	0.000100400	9.89868e-05	9.75492e-05	9.60573e-05
0.0100000	6.11364e-05	5.82004e-05	5.51796e-05	5.20756e-05	4.88992e-05
0.00100000	8.90315e-06	7.28798e-06	5.94832e-06	4.84090e-06	3.92864e-06
0.000100000	3.71303e-08	2.61586e-08	1.86808e-08	1.34944e-08	9.84357e-09
1.00000e-05	2.93225e-11	2.07101e-11	1.48846e-11	1.08536e-11	8.01073e-12
1.00000e-06	4.57976e-14	3.37079e-14	2.51884e-14	1.90589e-14	1.45725e-14
1.00000e-07	1.96809e-16	1.50595e-16	1.16680e-16	9.13355e-17	7.21108e-17
1.00000e-08	2.15674e-18	1.70749e-18	1.36534e-18	1.10064e-18	8.93258e-19
1.00000e-09	5.69672e-20	4.65232e-20	3.82808e-20	3.16902e-20	2.63643e-20

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	9.27013e-10	1.16569e-09	1.44586e-09	1.77353e-09	2.15591e-09
1.00000e+07	9.27060e-09	1.16573e-08	1.44589e-08	1.77355e-08	2.15591e-08
1.00000e+06	9.27542e-08	1.16618e-07	1.44626e-07	1.77377e-07	2.15590e-07
100000.	9.32307e-07	1.17059e-06	1.44987e-06	1.77595e-06	2.15576e-06
10000.0	9.74522e-06	1.20831e-05	1.47872e-05	1.78991e-05	2.14662e-05
1000.00	0.000107823	0.000123632	0.000140183	0.000157332	0.000174926
100.000	0.000314018	0.000314668	0.000314523	0.000313731	0.000312414
10.0000	0.000207866	0.000205565	0.000203330	0.000201144	0.000198997
1.00000	0.000138012	0.000136596	0.000135181	0.000133754	0.000132305
0.100000	9.44857e-05	9.28119e-05	9.10164e-05	8.90823e-05	8.69957e-05
0.0100000	4.56694e-05	4.24112e-05	3.91542e-05	3.59300e-05	3.27709e-05
0.00100000	3.17978e-06	2.56716e-06	2.06763e-06	1.66160e-06	1.33252e-06
0.000100000	7.24101e-09	5.36545e-09	4.00103e-09	3.00029e-09	2.26099e-09
1.00000e-05	5.97363e-12	4.49396e-12	3.40664e-12	2.59960e-12	1.99536e-12
1.00000e-06	1.12412e-14	8.73733e-15	6.83577e-15	5.37880e-15	4.25395e-15
1.00000e-07	5.73457e-17	4.58872e-17	3.69159e-17	2.98393e-17	2.42218e-17
1.00000e-08	7.29035e-19	5.97856e-19	4.92290e-19	4.06803e-19	3.37230e-19
1.00000e-09	2.20231e-20	1.84593e-20	1.55165e-20	1.30746e-20	1.10402e-20

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.60167e-09	3.12111e-09	3.72647e-09	4.43229e-09	5.25570e-09
1.00000e+07	2.60163e-08	3.12101e-08	3.72630e-08	4.43200e-08	5.25525e-08
1.00000e+06	2.60126e-07	3.12011e-07	3.72461e-07	4.42919e-07	5.25083e-07
100000.	2.59755e-06	3.11110e-06	3.70790e-06	4.40143e-06	5.20741e-06
10000.0	2.55417e-05	3.01843e-05	3.54578e-05	4.14303e-05	4.81727e-05
1000.00	0.000192796	0.000210771	0.000228672	0.000246325	0.000263562
100.000	0.000310682	0.000308623	0.000306316	0.000303824	0.000301201
10.0000	0.000196883	0.000194800	0.000192745	0.000190718	0.000188717
1.00000	0.000130827	0.000129314	0.000127755	0.000126145	0.000124473
0.100000	8.47453e-05	8.23239e-05	7.97275e-05	7.69569e-05	7.40176e-05
0.0100000	2.97073e-05	2.67671e-05	2.39739e-05	2.13464e-05	1.88985e-05
0.00100000	1.06656e-06	8.52168e-07	6.79759e-07	5.41422e-07	4.30653e-07
0.000100000	1.71138e-09	1.30049e-09	9.91787e-10	7.58819e-10	5.82310e-10
1.00000e-05	1.53952e-12	1.19335e-12	9.28922e-13	7.25885e-13	5.69271e-13
1.00000e-06	3.37975e-15	2.69650e-15	2.15985e-15	1.73658e-15	1.40155e-15
1.00000e-07	1.97386e-17	1.61446e-17	1.32527e-17	1.09191e-17	9.03228e-18
1.00000e-08	2.80339e-19	2.33663e-19	1.95243e-19	1.63548e-19	1.37333e-19
1.00000e-09	9.33935e-21	7.91346e-21	6.71607e-21	5.70720e-21	4.85643e-21

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	6.21686e-09	7.33941e-09	8.65090e-09	1.62797e-08	8.33058e-08
1.00000e+07	6.21619e-08	7.33841e-08	8.64946e-08	1.62808e-07	8.32311e-07
1.00000e+06	6.20950e-07	7.32854e-07	8.63515e-07	1.62907e-06	8.24301e-06
100000.	6.14407e-06	7.23242e-06	8.49653e-06	1.62379e-05	7.32373e-05
10000.0	5.57572e-05	6.42557e-05	7.37359e-05	0.000133326	0.000334144
1000.00	0.000280223	0.000296165	0.000311265	0.000374175	0.000418537
100.000	0.000298491	0.000295731	0.000292949	0.000286306	0.000261595
10.0000	0.000186742	0.000184793	0.000182867	0.000179240	0.000158101
1.00000	0.000122731	0.000120906	0.000118987	0.000113551	8.15244e-05
0.100000	7.09201e-05	6.76798e-05	6.43165e-05	5.30012e-05	2.21383e-05
0.0100000	1.66389e-05	1.45714e-05	1.26953e-05	8.11324e-06	1.61801e-06
0.00100000	3.42127e-07	2.71502e-07	2.15246e-07	1.53956e-07	1.85413e-08
0.000100000	4.48095e-10	3.45705e-10	2.67361e-10	6.13955e-10	7.55614e-11
1.00000e-05	4.47970e-13	3.53677e-13	2.80144e-13	2.82359e-12	4.47004e-13
1.00000e-06	1.13562e-15	9.24094e-16	7.55653e-16	2.49484e-14	5.24530e-15

1.00000e-07	7.50528e-18	6.27042e-18	5.27461e-18	4.24777e-16	1.00543e-16
1.00000e-08	1.15657e-19	9.76928e-20	8.28314e-20	1.30343e-17	3.10859e-18
1.00000e-09	4.13812e-21	3.53122e-21	3.01836e-21	5.97671e-19	1.53972e-19

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	3.91091e-07	1.79037e-06	7.53914e-06	2.70754e-05	0.000106657
1.00000e+07	3.87891e-06	1.63385e-05	6.07398e-05	0.000194911	0.000536197
1.00000e+06	3.67356e-05	0.000134554	0.000375641	0.000769018	0.00125612
100000.	0.000238920	0.000523375	0.000816039	0.00103237	0.00122253
10000.0	0.000529292	0.000626776	0.000651027	0.000661119	0.000691902
1000.00	0.000407964	0.000382757	0.000350282	0.000314900	0.000280537
100.000	0.000236220	0.000200807	0.000152217	0.000105990	7.05852e-05
10.0000	0.000124194	7.94484e-05	4.15203e-05	2.00277e-05	9.48120e-06
1.00000	4.30501e-05	1.70103e-05	5.63027e-06	1.86819e-06	6.47014e-07
0.100000	6.39867e-06	1.48897e-06	3.24021e-07	7.94409e-08	2.19167e-08
0.0100000	2.61861e-07	4.03885e-08	6.70574e-09	1.42144e-09	3.70805e-10
0.00100000	2.30717e-09	3.30435e-10	5.83158e-11	1.39828e-11	4.63232e-12
0.000100000	1.16963e-11	2.72573e-12	7.74535e-13	2.33604e-13	1.15496e-13
1.00000e-05	1.30360e-13	6.85154e-14	2.79997e-14	9.24424e-15	6.56564e-15
1.00000e-06	2.96017e-15	2.26795e-15	1.01601e-15	3.83569e-16	4.89913e-16
1.00000e-07	5.39319e-17	3.91222e-17	1.89081e-17	1.35032e-17	4.21004e-17
1.00000e-08	1.08714e-18	5.82514e-19	4.37305e-19	8.92340e-19	4.06372e-18
1.00000e-09	5.24757e-20	2.80659e-20	3.09098e-20	8.41405e-20	4.03595e-19

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	0.000337046	0.000762628	0.00196055	0.00606619	0.0133966
1.00000e+07	0.00109982	0.00203071	0.00402411	0.00780442	0.0134297
1.00000e+06	0.00187061	0.00305175	0.00533884	0.00816159	0.00966609
100000.	0.00157884	0.00238327	0.00374441	0.00498431	0.00505605
10000.0	0.000810889	0.00106996	0.00142391	0.00164282	0.00150022
1000.00	0.000267922	0.000280659	0.000306246	0.000313778	0.000269028
100.000	5.04764e-05	4.10699e-05	3.81857e-05	3.71133e-05	3.16822e-05
10.0000	5.07548e-06	3.35829e-06	2.93507e-06	3.04421e-06	2.82136e-06
1.00000	2.74252e-07	1.64668e-07	1.65402e-07	2.16701e-07	2.33421e-07
0.100000	8.29677e-09	5.87503e-09	9.40430e-09	1.67595e-08	2.04828e-08
0.0100000	1.68150e-10	2.42668e-10	6.87552e-10	1.47485e-09	1.91643e-09
0.00100000	4.66251e-12	1.64582e-11	6.08182e-11	1.39370e-10	1.85553e-10
0.000100000	2.92028e-13	1.47596e-12	5.84298e-12	1.36542e-11	1.83305e-11
1.00000e-05	2.61544e-14	1.44234e-13	5.79590e-13	1.35997e-12	1.82867e-12
1.00000e-06	2.52779e-15	1.43381e-14	5.78538e-14	1.35884e-13	1.82771e-13
1.00000e-07	2.49584e-16	1.43092e-15	5.78203e-15	1.35848e-14	1.82739e-14
1.00000e-08	2.48647e-17	1.42983e-16	5.78066e-16	1.35834e-15	1.82725e-15
1.00000e-09	2.48336e-18	1.42937e-17	5.78005e-17	1.35827e-16	1.82719e-16

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.0163555	0.00264797	0.00217992	0.00194334	0.00186280
1.00000e+07	0.0188489	0.00202778	0.00119494	0.00103671	0.000996344
1.00000e+06	0.00956380	0.00153639	0.000790097	0.000561056	0.000401861
100000.	0.00417311	0.000706960	0.000284147	0.000145807	7.67858e-05
10000.0	0.00112589	0.000179763	5.49535e-05	2.16672e-05	9.40878e-06
1000.00	0.000191774	2.83856e-05	7.10632e-06	2.42164e-06	9.70192e-07
100.000	2.25005e-05	3.29761e-06	7.55356e-07	2.44784e-07	9.60909e-08
10.0000	2.11437e-06	3.33067e-07	7.53897e-08	2.42508e-08	9.49905e-09
1.00000	1.89258e-07	3.25827e-08	7.45911e-09	2.40435e-09	9.42419e-10
0.100000	1.75567e-08	3.20142e-09	7.40186e-10	2.39089e-10	9.37702e-11
0.0100000	1.68740e-09	3.16829e-10	7.36718e-11	2.38267e-11	9.34821e-12
0.00100000	1.65361e-10	3.15645e-11	7.35573e-12	2.38021e-12	9.34012e-13
0.000100000	1.64080e-11	3.15281e-12	7.35259e-13	2.37965e-13	9.33851e-14
1.00000e-05	1.63815e-12	3.15127e-13	7.35130e-14	2.37944e-14	9.33797e-15
1.00000e-06	1.63749e-13	3.15050e-14	7.35064e-15	2.37934e-15	9.33769e-16
1.00000e-07	1.63724e-14	3.15012e-15	7.35033e-16	2.37929e-16	9.33758e-17
1.00000e-08	1.63713e-15	3.14982e-16	7.35005e-17	2.37925e-17	9.33746e-18
1.00000e-09	1.63707e-16	3.14970e-17	7.34995e-18	2.37923e-18	9.33741e-19

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.00184622	0.00183346	0.00179093	0.00170454	0.00157593
1.00000e+07	0.000916281	0.000786484	0.000635491	0.000490991	0.000368386
1.00000e+06	0.000271312	0.000175347	0.000111213	7.06138e-05	4.54761e-05
100000.	4.05485e-05	2.19060e-05	1.22983e-05	7.21941e-06	4.42998e-06
10000.0	4.40405e-06	2.22381e-06	1.20578e-06	6.96054e-07	4.23870e-07
1000.00	4.37622e-07	2.17702e-07	1.17415e-07	6.76765e-08	4.12067e-08
100.000	4.30637e-08	2.13902e-08	1.15364e-08	6.65187e-09	4.05186e-09
10.0000	4.25641e-09	2.11488e-09	1.14105e-09	6.58132e-10	4.00989e-10
1.00000	4.22462e-10	2.09974e-10	1.13313e-10	6.53676e-11	3.98330e-11
0.100000	4.20465e-11	2.09015e-11	1.12809e-11	6.50825e-12	3.96618e-12
0.0100000	4.19245e-12	2.08434e-12	1.12505e-12	6.49122e-13	3.95605e-13

0.00100000	4.18921e-13	2.08284e-13	1.12430e-13	6.48713e-14	3.95370e-14
0.000100000	4.18861e-14	2.08258e-14	1.12417e-14	6.48645e-15	3.95332e-15
1.00000e-05	4.18840e-15	2.08251e-15	1.12414e-15	6.48628e-16	3.95321e-16
1.00000e-06	4.18833e-16	2.08247e-16	1.12412e-16	6.48621e-17	3.95317e-17
1.00000e-07	4.18827e-17	2.08245e-17	1.12411e-17	6.48617e-18	3.95315e-18
1.00000e-08	4.18825e-18	2.08244e-18	1.12411e-18	6.48612e-19	3.95313e-19
1.00000e-09	4.18822e-19	2.08243e-19	1.12410e-19	6.48612e-20	3.95313e-20

Pa\K	4000.00

1.00000e+08	0.00141706
1.00000e+07	0.000271980
1.00000e+06	2.99229e-05
100000.	2.83197e-06
10000.0	2.70099e-07
1000.00	2.62661e-08
100.000	2.58368e-09
10.0000	2.55746e-10
1.00000	2.54076e-11
0.100000	2.53000e-12
0.0100000	2.52368e-13
0.00100000	2.52222e-14
0.000100000	2.52200e-15
1.00000e-05	2.52194e-16
1.00000e-06	2.52192e-17
1.00000e-07	2.52190e-18
1.00000e-08	2.52190e-19
1.00000e-09	2.52190e-20

PAH7+H

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000

1.00000e+08	4.07035e-30	1.99378e-29	6.62007e-29	2.23238e-28	8.92037e-28
1.00000e+07	4.08728e-28	2.00982e-27	6.69249e-27	2.25822e-26	9.00082e-26
1.00000e+06	4.23515e-26	2.13362e-25	7.19479e-25	2.41976e-24	9.43937e-24
100000.	4.79976e-24	2.40160e-23	7.90109e-23	2.54021e-22	9.19602e-22
10000.0	4.76483e-22	2.20552e-21	6.91165e-21	2.07560e-20	6.65195e-20
1000.00	3.54491e-20	1.40742e-19	3.87256e-19	1.01860e-18	2.82040e-18
100.000	1.78875e-18	9.87825e-18	3.20848e-17	8.21059e-17	1.88131e-16
10.0000	6.10910e-16	3.55151e-15	9.97133e-15	2.19828e-14	4.34762e-14
1.00000	1.13943e-13	5.14327e-13	1.29648e-12	2.68417e-12	5.08171e-12
0.100000	1.23960e-11	5.30960e-11	1.30774e-10	2.66210e-10	4.96059e-10
0.0100000	1.16977e-09	4.66949e-09	1.07588e-08	2.04257e-08	3.52381e-08
0.00100000	6.96925e-08	1.94420e-07	3.37576e-07	5.00602e-07	6.87791e-07
0.000100000	8.40022e-07	1.21308e-06	1.45257e-06	1.66909e-06	1.89226e-06
1.00000e-05	1.61855e-06	1.73308e-06	1.84964e-06	1.99681e-06	2.17576e-06
1.00000e-06	1.74817e-06	1.79997e-06	1.89629e-06	2.03359e-06	2.20672e-06
1.00000e-07	1.76170e-06	1.80679e-06	1.90101e-06	2.03731e-06	2.20983e-06
1.00000e-08	1.76306e-06	1.80747e-06	1.90148e-06	2.03768e-06	2.21015e-06
1.00000e-09	1.76319e-06	1.80754e-06	1.90153e-06	2.03772e-06	2.21018e-06

Pa\K	70.0000	80.0000	90.0000	100.000	110.000

1.00000e+08	4.09622e-27	1.89768e-26	8.25515e-26	3.32670e-25	1.24354e-24
1.00000e+07	4.11834e-25	1.90290e-24	8.26484e-24	3.32759e-23	1.24322e-22
1.00000e+06	4.20982e-23	1.91056e-22	8.21229e-22	3.28791e-21	1.22485e-20
100000.	3.79556e-21	1.63593e-20	6.87225e-20	2.74584e-19	1.03264e-18
10000.0	2.38720e-19	9.47440e-19	3.97667e-18	1.66982e-17	6.65696e-17
1000.00	8.75948e-18	3.16445e-17	1.29452e-16	5.43465e-16	2.13012e-15
100.000	4.14393e-16	9.27665e-16	2.24222e-15	6.04846e-15	1.74264e-14
10.0000	8.18097e-14	1.51271e-13	2.79799e-13	5.22256e-13	9.86839e-13
1.00000	9.23837e-12	1.65791e-11	2.98149e-11	5.40753e-11	9.90414e-11
0.100000	8.86149e-10	1.55655e-09	2.72327e-09	4.76589e-09	8.33631e-09
0.0100000	5.75993e-08	9.11379e-08	1.41083e-07	2.14598e-07	3.21080e-07
0.00100000	9.04768e-07	1.15886e-06	1.45877e-06	1.81415e-06	2.23533e-06
0.000100000	2.13584e-06	2.41055e-06	2.72667e-06	3.09449e-06	3.52454e-06
1.00000e-05	2.38867e-06	2.64082e-06	2.93960e-06	3.29366e-06	3.71246e-06
1.00000e-06	2.41578e-06	2.66518e-06	2.96190e-06	3.31435e-06	3.73186e-06
1.00000e-07	2.41850e-06	2.66763e-06	2.96414e-06	3.31643e-06	3.73380e-06
1.00000e-08	2.41878e-06	2.66788e-06	2.96437e-06	3.31664e-06	3.73400e-06
1.00000e-09	2.41880e-06	2.66790e-06	2.96439e-06	3.31666e-06	3.73402e-06

Pa\K	120.000	130.000	140.000	150.000	160.000

1.00000e+08	4.31962e-24	1.39851e-23	4.24217e-23	1.21373e-22	3.29836e-22
1.00000e+07	4.31715e-22	1.39741e-21	4.23815e-21	1.21240e-20	3.29423e-20
1.00000e+06	4.24713e-20	1.37356e-19	4.16282e-19	1.18989e-18	3.22988e-18
100000.	3.62817e-18	1.18795e-17	3.63473e-17	1.04530e-16	2.84478e-16
10000.0	2.44232e-16	8.17280e-16	2.50409e-15	7.08594e-15	1.86919e-14

1000.00	7.46347e-15	2.32407e-14	6.49579e-14	1.65250e-13	3.87807e-13
100.000	4.95503e-14	1.32147e-13	3.25215e-13	7.40163e-13	1.57186e-12
10.0000	1.88685e-12	3.64082e-12	7.06566e-12	1.37495e-11	2.67733e-11
1.00000	1.82985e-10	3.40375e-10	6.36028e-10	1.19091e-09	2.22806e-09
0.100000	1.45288e-08	2.51370e-08	4.30240e-08	7.26349e-08	1.20670e-07
0.0100000	4.72462e-07	6.83484e-07	9.71927e-07	1.35880e-06	1.86839e-06
0.00100000	2.73334e-06	3.32020e-06	4.00923e-06	4.81540e-06	5.75582e-06
0.000100000	4.02787e-06	4.61643e-06	5.30351e-06	6.10411e-06	7.03540e-06
1.00000e-05	4.20638e-06	4.78690e-06	5.46695e-06	6.26131e-06	7.18692e-06
1.00000e-06	4.22471e-06	4.80434e-06	5.48361e-06	6.27728e-06	7.20228e-06
1.00000e-07	4.22655e-06	4.80608e-06	5.48528e-06	6.27888e-06	7.20382e-06
1.00000e-08	4.22673e-06	4.80626e-06	5.48545e-06	6.27904e-06	7.20398e-06
1.00000e-09	4.22675e-06	4.80628e-06	5.48547e-06	6.27905e-06	7.20399e-06

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	8.56891e-22	2.14010e-21	5.16231e-21	1.20729e-20	2.74583e-20
1.00000e+07	8.55670e-20	2.13660e-19	5.15265e-19	1.20468e-18	2.73893e-18
1.00000e+06	8.37885e-18	2.08885e-17	5.02758e-17	1.17264e-16	2.65847e-16
100000.	7.37366e-16	1.83042e-15	4.37144e-15	1.00802e-14	2.25067e-14
10000.0	4.63498e-14	1.08801e-13	2.43176e-13	5.19951e-13	1.06775e-12
1000.00	8.49405e-13	1.75319e-12	3.43717e-12	6.44248e-12	1.16071e-11
100.000	3.14748e-12	6.00223e-12	1.10000e-11	1.95303e-11	3.38407e-11
10.0000	5.21013e-11	1.01245e-10	1.96299e-10	3.79301e-10	7.29264e-10
1.00000	4.15162e-09	7.67855e-09	1.40494e-08	2.53524e-08	4.50025e-08
0.100000	1.96925e-07	3.15302e-07	4.94940e-07	7.61428e-07	1.14802e-06
0.0100000	2.52835e-06	3.36958e-06	4.42608e-06	5.73499e-06	7.33637e-06
0.00100000	6.84995e-06	8.12009e-06	9.59161e-06	1.12933e-05	1.32577e-05
0.000100000	8.11702e-06	9.37141e-06	1.08242e-05	1.25044e-05	1.44448e-05
1.00000e-05	8.26330e-06	9.51279e-06	1.09609e-05	1.26366e-05	1.45726e-05
1.00000e-06	8.27809e-06	9.52706e-06	1.09747e-05	1.26499e-05	1.45855e-05
1.00000e-07	8.27958e-06	9.52849e-06	1.09760e-05	1.26513e-05	1.45868e-05
1.00000e-08	8.27973e-06	9.52863e-06	1.09762e-05	1.26514e-05	1.45869e-05
1.00000e-09	8.27974e-06	9.52865e-06	1.09762e-05	1.26514e-05	1.45869e-05

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	6.08824e-20	1.31856e-19	2.79326e-19	5.79312e-19	1.17670e-18
1.00000e+07	6.07042e-18	1.31406e-17	2.78212e-17	5.76625e-17	1.17038e-16
1.00000e+06	5.87218e-16	1.26610e-15	2.66829e-15	5.50136e-15	1.11005e-14
100000.	4.87647e-14	1.02705e-13	2.10534e-13	4.20453e-13	8.18580e-13
10000.0	2.11286e-12	4.04020e-12	7.48386e-12	1.34578e-11	2.35377e-11
1000.00	2.01913e-11	3.40433e-11	5.58144e-11	8.92379e-11	1.39487e-10
100.000	5.76076e-11	9.69328e-11	1.62087e-10	2.70538e-10	4.52092e-10
10.0000	1.39238e-09	2.63404e-09	4.92556e-09	9.08356e-09	1.64854e-08
1.00000	7.84185e-08	1.33943e-07	2.24040e-07	3.66791e-07	5.87666e-07
0.100000	1.69671e-06	2.45918e-06	3.49737e-06	4.88370e-06	6.70090e-06
0.0100000	9.27326e-06	1.15917e-05	1.43408e-05	1.75734e-05	2.13453e-05
0.00100000	1.55211e-05	1.81246e-05	2.11134e-05	2.45375e-05	2.84520e-05
0.000100000	1.66820e-05	1.92574e-05	2.22163e-05	2.56090e-05	2.94909e-05
1.00000e-05	1.68057e-05	1.93768e-05	2.23316e-05	2.57202e-05	2.95982e-05
1.00000e-06	1.68182e-05	1.93888e-05	2.23432e-05	2.57315e-05	2.96090e-05
1.00000e-07	1.68194e-05	1.93901e-05	2.23443e-05	2.57325e-05	2.96101e-05
1.00000e-08	1.68195e-05	1.93902e-05	2.23444e-05	2.57326e-05	2.96102e-05
1.00000e-09	1.68195e-05	1.93902e-05	2.23444e-05	2.57326e-05	2.96102e-05

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	2.34047e-18	4.55574e-18	8.67018e-18	4.48642e-16	6.06078e-14
1.00000e+07	2.32599e-16	4.52360e-16	8.60110e-16	4.31887e-14	5.53968e-12
1.00000e+06	2.19188e-14	4.23325e-14	7.99033e-14	3.24067e-12	2.99911e-10
100000.	1.55427e-12	2.87864e-12	5.20047e-12	9.89801e-11	4.06178e-09
10000.0	4.01060e-11	6.66688e-11	1.08250e-10	6.57453e-10	1.30794e-08
1000.00	2.13629e-10	3.21216e-10	4.74993e-10	1.60205e-09	7.73087e-08
100.000	7.57375e-10	1.27122e-09	2.13286e-09	2.99883e-08	1.97448e-06
10.0000	2.93877e-08	5.13751e-08	8.79607e-08	8.80904e-07	2.37838e-05
1.00000	9.21552e-07	1.41489e-06	2.12779e-06	9.96849e-06	0.000102424
0.100000	9.04130e-06	1.20059e-05	1.57028e-05	3.80036e-05	0.000185067
0.0100000	2.57166e-05	3.07518e-05	3.65190e-05	6.02616e-05	0.000211662
0.00100000	3.29173e-05	3.79990e-05	4.37679e-05	6.53851e-05	0.000215372
0.000100000	3.39228e-05	3.89701e-05	4.47042e-05	6.59915e-05	0.000215761
1.00000e-05	3.40260e-05	3.90695e-05	4.47996e-05	6.60534e-05	0.000215800
1.00000e-06	3.40364e-05	3.90794e-05	4.48091e-05	6.60595e-05	0.000215803
1.00000e-07	3.40374e-05	3.90804e-05	4.48101e-05	6.60602e-05	0.000215804
1.00000e-08	3.40375e-05	3.90805e-05	4.48102e-05	6.60603e-05	0.000215804
1.00000e-09	3.40376e-05	3.90805e-05	4.48102e-05	6.60603e-05	0.000215804

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	2.39689e-11	6.24271e-09	1.08462e-07	1.12151e-06	1.34675e-05

1.00000e+07	3.88891e-09	1.78568e-07	1.69950e-06	8.52282e-06	3.54418e-05
1.00000e+06	1.18778e-07	3.69957e-06	1.74490e-05	4.20445e-05	8.87342e-05
100000.	2.82137e-07	7.96858e-06	3.89891e-05	9.27558e-05	0.000262186
10000.0	2.69788e-07	6.45374e-06	6.35570e-05	0.000314897	0.00109969
1000.00	3.10877e-06	5.01792e-05	0.000350427	0.00126394	0.00297169
100.000	4.15827e-05	0.000317995	0.00118095	0.00268987	0.00455272
10.0000	0.000212075	0.000835654	0.00197814	0.00346258	0.00507867
1.00000	0.000449024	0.00116669	0.00225542	0.00363443	0.00516266
0.100000	0.000555152	0.00124654	0.00229970	0.00365601	0.00517194
0.0100000	0.000574036	0.00125674	0.00230454	0.00365825	0.00517289
0.00100000	0.000576145	0.00125779	0.00230503	0.00365847	0.00517298
0.000100000	0.000576359	0.00125790	0.00230508	0.00365849	0.00517299
1.00000e-05	0.000576380	0.00125792	0.00230508	0.00365850	0.00517299
1.00000e-06	0.000576382	0.00125792	0.00230508	0.00365850	0.00517299
1.00000e-07	0.000576383	0.00125792	0.00230508	0.00365850	0.00517299
1.00000e-08	0.000576383	0.00125792	0.00230508	0.00365850	0.00517299
1.00000e-09	0.000576383	0.00125792	0.00230508	0.00365850	0.00517299

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	6.72805e-05	0.000140084	0.000212646	0.000359622	0.000509466
1.00000e+07	0.000118777	0.000352557	0.000936337	0.00197363	0.00295866
1.00000e+06	0.000246076	0.000846503	0.00230268	0.00429298	0.00583921
100000.	0.000863649	0.00235693	0.00471713	0.00700869	0.00841407
10000.0	0.00272888	0.00505046	0.00737670	0.00902376	0.00988451
1000.00	0.00512401	0.00716658	0.00872456	0.00972423	0.0102766
100.000	0.00635588	0.00787299	0.00902778	0.00982564	0.0103102
10.0000	0.00663261	0.00798905	0.00906520	0.00983307	0.0103096
1.00000	0.00666827	0.00800243	0.00906953	0.00983418	0.0103099
0.100000	0.00667200	0.00800387	0.00907005	0.00983437	0.0103100
0.0100000	0.00667239	0.00800405	0.00907010	0.00983443	0.0103100
0.00100000	0.00667246	0.00800405	0.00907010	0.00983443	0.0103100
0.000100000	0.00667246	0.00800405	0.00907010	0.00983443	0.0103100
1.00000e-05	0.00667246	0.00800405	0.00907010	0.00983443	0.0103100
1.00000e-06	0.00667246	0.00800405	0.00907010	0.00983443	0.0103100
1.00000e-07	0.00667246	0.00800405	0.00907010	0.00983443	0.0103100
1.00000e-08	0.00667246	0.00800405	0.00907010	0.00983443	0.0103100
1.00000e-09	0.00667246	0.00800405	0.00907010	0.00983443	0.0103100

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.000476587	0.00356880	0.00396356	0.00395344	0.00388677
1.00000e+07	0.00329863	0.00525885	0.00549677	0.00537879	0.00531521
1.00000e+06	0.00658111	0.00727376	0.00721260	0.00700291	0.00684428
100000.	0.00899633	0.00900498	0.00863698	0.00816009	0.00763807
10000.0	0.0102140	0.00968569	0.00914234	0.00847870	0.00779890
1000.00	0.0105154	0.00979000	0.00922330	0.00852525	0.00781926
100.000	0.0105397	0.00979092	0.00923053	0.00853036	0.00782149
10.0000	0.0105392	0.00978926	0.00923108	0.00853090	0.00782172
1.00000	0.0105394	0.00978915	0.00923115	0.00853097	0.00782174
0.100000	0.0105395	0.00978914	0.00923117	0.00853097	0.00782174
0.0100000	0.0105396	0.00978916	0.00923114	0.00853097	0.00782174
0.00100000	0.0105396	0.00978916	0.00923114	0.00853097	0.00782174
0.000100000	0.0105396	0.00978916	0.00923114	0.00853097	0.00782174
1.00000e-05	0.0105396	0.00978916	0.00923114	0.00853097	0.00782174
1.00000e-06	0.0105396	0.00978916	0.00923114	0.00853097	0.00782174
1.00000e-07	0.0105396	0.00978916	0.00923114	0.00853097	0.00782174
1.00000e-08	0.0105396	0.00978916	0.00923114	0.00853097	0.00782174
1.00000e-09	0.0105396	0.00978916	0.00923114	0.00853097	0.00782174

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.00384318	0.00381652	0.00379494	0.00376579	0.00371821
1.00000e+07	0.00529210	0.00523992	0.00512152	0.00493447	0.00469624
1.00000e+06	0.00659361	0.00624082	0.00583246	0.00541196	0.00500563
100000.	0.00707068	0.00650622	0.00597513	0.00548843	0.00504730
10000.0	0.00714468	0.00653987	0.00599094	0.00549629	0.00505145
1000.00	0.00715309	0.00654345	0.00599258	0.00549710	0.00505190
100.000	0.00715398	0.00654382	0.00599275	0.00549719	0.00505191
10.0000	0.00715408	0.00654386	0.00599278	0.00549719	0.00505194
1.00000	0.00715408	0.00654386	0.00599276	0.00549717	0.00505194
0.100000	0.00715408	0.00654386	0.00599276	0.00549717	0.00505194
0.0100000	0.00715408	0.00654386	0.00599276	0.00549717	0.00505194
0.00100000	0.00715408	0.00654386	0.00599276	0.00549717	0.00505194
0.000100000	0.00715408	0.00654386	0.00599276	0.00549717	0.00505194
1.00000e-05	0.00715408	0.00654386	0.00599276	0.00549717	0.00505194
1.00000e-06	0.00715408	0.00654386	0.00599276	0.00549717	0.00505194
1.00000e-07	0.00715408	0.00654386	0.00599276	0.00549717	0.00505194
1.00000e-08	0.00715408	0.00654386	0.00599276	0.00549717	0.00505194
1.00000e-09	0.00715408	0.00654386	0.00599276	0.00549717	0.00505194

Pa\K	4000.00
1.00000e+08	0.00364579
1.00000e+07	0.00442968
1.00000e+06	0.00462604
100000.	0.00464937
10000.0	0.00465167
1000.00	0.00465190
100.000	0.00465193
10.0000	0.00465193
1.00000	0.00465193
0.100000	0.00465193
0.0100000	0.00465193
0.00100000	0.00465193
0.000100000	0.00465193
1.00000e-05	0.00465193
1.00000e-06	0.00465193
1.00000e-07	0.00465193
1.00000e-08	0.00465193
1.00000e-09	0.00465193

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	3.28128e-17	4.93079e-15	2.03412e-13	2.02084e-12	9.67492e-12
1.00000e+07	8.74696e-15	8.71065e-14	2.11864e-12	2.03283e-11	9.67724e-11
1.00000e+06	1.06387e-12	4.86443e-12	2.98588e-11	2.15471e-10	9.70426e-10
100000.	1.05483e-10	4.22393e-10	1.08377e-09	3.22413e-09	9.94147e-09
10000.0	7.95978e-09	2.46344e-08	4.40536e-08	6.70959e-08	9.80418e-08
1000.00	1.50011e-07	2.46852e-07	3.16731e-07	3.77157e-07	4.34708e-07
100.000	5.86026e-07	7.95017e-07	9.15288e-07	9.92558e-07	1.04441e-06
10.0000	1.05811e-06	9.68404e-07	8.91442e-07	8.37609e-07	7.98533e-07
1.00000	6.72605e-07	5.84562e-07	5.45445e-07	5.22118e-07	5.06273e-07
0.100000	4.57046e-07	4.25046e-07	4.11706e-07	4.04085e-07	3.99044e-07
0.0100000	3.82169e-07	3.68106e-07	3.58465e-07	3.49908e-07	3.41646e-07
0.00100000	3.08246e-07	2.52261e-07	2.09085e-07	1.74196e-07	1.45401e-07
0.000100000	7.36319e-08	2.38516e-08	1.02134e-08	5.09497e-09	2.80271e-09
1.00000e-05	4.41799e-10	5.11472e-11	1.42490e-11	5.65745e-12	2.71933e-12
1.00000e-06	3.58617e-13	4.38164e-14	1.35083e-14	5.87492e-15	3.05636e-15
1.00000e-07	5.40911e-16	9.01021e-17	3.31630e-17	1.63251e-17	9.34357e-18
1.00000e-08	2.25732e-18	5.06111e-19	2.19468e-19	1.20994e-19	7.55206e-20
1.00000e-09	2.43536e-20	7.19308e-21	3.63381e-21	2.22624e-21	1.50621e-21

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	3.04233e-11	7.34087e-11	1.48237e-10	2.64005e-10	4.28914e-10
1.00000e+07	3.03738e-10	7.32147e-10	1.47732e-09	2.62929e-09	4.26888e-09
1.00000e+06	2.98937e-09	7.13281e-09	1.42841e-08	2.52533e-08	4.07380e-08
100000.	2.59809e-08	5.64256e-08	1.05482e-07	1.75852e-07	2.68630e-07
10000.0	1.41098e-07	1.98207e-07	2.68854e-07	3.50873e-07	4.41372e-07
1000.00	4.92706e-07	5.52685e-07	6.15023e-07	6.79415e-07	7.45223e-07
100.000	1.07970e-06	1.10356e-06	1.11921e-06	1.12876e-06	1.13368e-06
10.0000	7.68862e-07	7.45494e-07	7.26557e-07	7.10848e-07	6.97555e-07
1.00000	4.94698e-07	4.85846e-07	4.78861e-07	4.73215e-07	4.68553e-07
0.100000	3.95400e-07	3.92590e-07	3.90297e-07	3.88313e-07	3.86480e-07
0.0100000	3.33351e-07	3.24820e-07	3.15895e-07	3.06448e-07	2.96379e-07
0.00100000	1.21379e-07	1.01216e-07	8.42336e-08	6.99178e-08	5.78606e-08
0.000100000	1.65140e-09	1.02378e-09	6.59823e-10	4.38383e-10	2.98410e-10
1.00000e-05	1.47332e-12	8.66174e-13	5.40067e-13	3.51862e-13	2.37125e-13
1.00000e-06	1.77497e-15	1.11008e-15	7.31901e-16	5.01820e-16	3.54509e-16
1.00000e-07	5.86576e-18	3.91882e-18	2.73660e-18	1.97459e-18	1.46070e-18
1.00000e-08	5.08662e-20	3.60603e-20	2.65103e-20	2.00182e-20	1.54255e-20
1.00000e-09	1.08297e-21	8.11126e-22	6.25336e-22	4.92403e-22	3.93937e-22

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	6.50320e-10	9.35047e-10	1.28982e-09	1.72173e-09	2.23868e-09
1.00000e+07	6.46818e-09	9.29372e-09	1.28106e-08	1.70870e-08	2.21987e-08
1.00000e+06	6.13270e-08	8.75272e-08	1.19799e-07	1.58591e-07	2.04375e-07
100000.	3.83522e-07	5.19176e-07	6.73515e-07	8.44020e-07	1.02795e-06
10000.0	5.37396e-07	6.36315e-07	7.35980e-07	8.34756e-07	9.31484e-07
1000.00	8.11708e-07	8.78155e-07	9.43931e-07	1.00851e-06	1.07145e-06
100.000	1.13500e-06	1.13347e-06	1.12967e-06	1.12403e-06	1.11692e-06
10.0000	6.86092e-07	6.76029e-07	6.67036e-07	6.58860e-07	6.51310e-07
1.00000	4.64616e-07	4.61208e-07	4.58175e-07	4.55397e-07	4.52777e-07
0.100000	3.84666e-07	3.82758e-07	3.80648e-07	3.78239e-07	3.75439e-07
0.0100000	2.85611e-07	2.74109e-07	2.61869e-07	2.48929e-07	2.35364e-07
0.00100000	4.77293e-08	3.92439e-08	3.21635e-08	2.62787e-08	2.14069e-08

0.000100000	2.07170e-10	1.46182e-10	1.04556e-10	7.56467e-11	5.52687e-11
1.00000e-05	1.64116e-13	1.16043e-13	8.34993e-14	6.09605e-14	4.50512e-14
1.00000e-06	2.56369e-16	1.88898e-16	1.41316e-16	1.07056e-16	8.19588e-17
1.00000e-07	1.10175e-18	8.43950e-19	6.54634e-19	5.13055e-19	4.05578e-19
1.00000e-08	1.20746e-20	9.57008e-21	7.66133e-21	6.18367e-21	5.02504e-21
1.00000e-09	3.19026e-22	2.60841e-22	2.14892e-22	1.78127e-22	1.48397e-22

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.84988e-09	3.56627e-09	4.40089e-09	5.36948e-09	6.49082e-09
1.00000e+07	2.82334e-08	3.52949e-08	4.35068e-08	5.30171e-08	6.40017e-08
1.00000e+06	2.57669e-07	3.19062e-07	3.89226e-07	4.68926e-07	5.59026e-07
100000.	1.22248e-06	1.42486e-06	1.63243e-06	1.84273e-06	2.05349e-06
10000.0	1.02542e-06	1.11613e-06	1.20349e-06	1.28756e-06	1.36853e-06
1000.00	1.13244e-06	1.19116e-06	1.24739e-06	1.30097e-06	1.35171e-06
100.000	1.10864e-06	1.09942e-06	1.08948e-06	1.07900e-06	1.06816e-06
10.0000	6.44238e-07	6.37536e-07	6.31126e-07	6.24954e-07	6.18981e-07
1.00000	4.50240e-07	4.47727e-07	4.45194e-07	4.42606e-07	4.39937e-07
0.100000	3.72165e-07	3.68338e-07	3.63887e-07	3.58745e-07	3.52858e-07
0.0100000	2.21282e-07	2.06820e-07	1.92135e-07	1.77395e-07	1.62773e-07
0.00100000	1.73895e-08	1.40889e-08	1.13867e-08	9.18181e-09	7.38828e-09
0.000100000	4.07221e-11	3.02243e-11	2.25768e-11	1.69597e-11	1.28040e-11
1.00000e-05	3.36401e-14	2.53432e-14	1.92398e-14	1.47046e-14	1.13051e-14
1.00000e-06	6.33066e-17	4.92741e-17	3.86067e-17	3.04248e-17	2.41009e-17
1.00000e-07	3.22963e-19	2.58792e-19	2.08502e-19	1.68795e-19	1.37240e-19
1.00000e-08	4.10685e-21	3.37276e-21	2.78147e-21	2.30219e-21	1.91173e-21
1.00000e-09	1.24144e-22	1.04218e-22	8.77488e-23	7.40706e-23	6.26633e-23

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	7.78733e-09	9.28560e-09	1.10171e-08	1.30187e-08	1.53339e-08
1.00000e+07	7.66691e-08	9.12652e-08	1.08078e-07	1.27443e-07	1.49750e-07
1.00000e+06	6.60486e-07	7.74357e-07	9.01766e-07	1.04390e-06	1.20199e-06
100000.	2.26271e-06	2.46860e-06	2.66967e-06	2.86470e-06	3.05272e-06
10000.0	1.44674e-06	1.52254e-06	1.59640e-06	1.66874e-06	1.74000e-06
1000.00	1.39948e-06	1.44417e-06	1.48569e-06	1.52395e-06	1.55890e-06
100.000	1.05709e-06	1.04591e-06	1.03471e-06	1.02360e-06	1.01263e-06
10.0000	6.13187e-07	6.07554e-07	6.02077e-07	5.96752e-07	5.91576e-07
1.00000	4.37159e-07	4.34253e-07	4.31193e-07	4.27954e-07	4.24506e-07
0.100000	3.46174e-07	3.38657e-07	3.30285e-07	3.21050e-07	3.10966e-07
0.0100000	1.48435e-07	1.34532e-07	1.21199e-07	1.08547e-07	9.66623e-08
0.00100000	5.93356e-09	4.75681e-09	3.80726e-09	3.04280e-09	2.42864e-09
0.000100000	9.70982e-12	7.39306e-12	5.64964e-12	4.33177e-12	3.33154e-12
1.00000e-05	8.73739e-15	6.78489e-15	5.29141e-15	4.14304e-15	3.25591e-15
1.00000e-06	1.91807e-17	1.53303e-17	1.23023e-17	9.91086e-18	8.01538e-18
1.00000e-07	1.12031e-19	9.17967e-20	7.54966e-20	6.23272e-20	5.16657e-20
1.00000e-08	1.59210e-21	1.32957e-21	1.11324e-21	9.34540e-22	7.86559e-22
1.00000e-09	5.31170e-23	4.51052e-23	3.83698e-23	3.26882e-23	2.78913e-23

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	1.80133e-08	2.11156e-08	2.47089e-08	4.55764e-08	2.14490e-07
1.00000e+07	1.75447e-07	2.05050e-07	2.39146e-07	4.27227e-07	1.79736e-06
1.00000e+06	1.37726e-06	1.57092e-06	1.78409e-06	2.60793e-06	6.62750e-06
100000.	3.23305e-06	3.40526e-06	3.56915e-06	3.79221e-06	5.35710e-06
10000.0	1.81062e-06	1.88097e-06	1.95138e-06	2.31921e-06	3.10812e-06
1000.00	1.59054e-06	1.61886e-06	1.64393e-06	1.73623e-06	1.77213e-06
100.000	1.00188e-06	9.91390e-07	9.81198e-07	9.77021e-07	9.48895e-07
10.0000	5.86548e-07	5.81663e-07	5.76918e-07	6.16764e-07	5.96814e-07
1.00000	4.20817e-07	4.16845e-07	4.12550e-07	4.49540e-07	3.57883e-07
0.100000	3.00064e-07	2.88400e-07	2.76046e-07	2.55195e-07	1.16891e-07
0.0100000	8.56050e-08	7.54109e-08	6.60938e-08	4.49417e-08	9.63606e-09
0.00100000	1.93617e-09	1.54198e-09	1.22695e-09	8.91042e-10	1.13830e-10
0.000100000	2.56962e-12	1.98728e-12	1.54083e-12	3.54073e-12	4.61140e-13
1.00000e-05	2.56773e-15	2.03192e-15	1.61337e-15	1.62581e-14	2.72944e-15
1.00000e-06	6.50869e-18	5.30851e-18	4.35138e-18	1.44084e-16	3.26363e-17
1.00000e-07	4.30265e-20	3.60317e-20	3.03846e-20	2.49562e-18	6.82337e-19
1.00000e-08	6.64055e-22	5.62395e-22	4.78199e-22	8.01568e-20	2.59726e-20
1.00000e-09	2.38364e-23	2.04063e-23	1.75043e-23	3.95668e-21	1.64375e-21

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	9.02123e-07	3.26723e-06	9.54868e-06	2.22096e-05	5.63974e-05
1.00000e+07	5.92910e-06	1.46005e-05	2.82215e-05	5.26682e-05	0.000125705
1.00000e+06	1.17759e-05	1.72761e-05	2.54308e-05	4.60722e-05	0.000112986
100000.	6.95693e-06	9.11052e-06	1.29606e-05	2.37223e-05	6.02539e-05
10000.0	3.70478e-06	4.34330e-06	5.86643e-06	1.07599e-05	2.73240e-05
1000.00	1.81539e-06	2.04454e-06	2.73121e-06	4.69066e-06	1.04095e-05
100.000	9.70482e-07	1.04117e-06	1.18669e-06	1.58279e-06	2.64886e-06
10.0000	5.44542e-07	4.45289e-07	3.47135e-07	3.14642e-07	3.78743e-07

1.00000	2.19198e-07	1.08855e-07	5.21371e-08	3.17616e-08	2.93418e-08
0.100000	3.84768e-08	1.09792e-08	3.36986e-09	1.52012e-09	1.40531e-09
0.0100000	1.74291e-09	3.24264e-10	7.55343e-11	3.40332e-11	6.82749e-11
0.00100000	1.56868e-11	2.70568e-12	7.20452e-13	8.73969e-13	5.44302e-12
0.000100000	7.91530e-14	2.28305e-14	1.41546e-14	6.32492e-14	5.28805e-13
1.00000e-05	8.94563e-16	6.22441e-16	8.48808e-16	6.03661e-15	5.26807e-14
1.00000e-06	2.15409e-17	2.52074e-17	6.52290e-17	5.94259e-16	5.26337e-15
1.00000e-07	5.25619e-19	1.01679e-18	5.64115e-18	5.90385e-17	5.26185e-16
1.00000e-08	2.36128e-20	7.50204e-20	5.48675e-19	5.89687e-18	5.26156e-17
1.00000e-09	1.98376e-21	7.25959e-21	5.47302e-20	5.89610e-19	5.26151e-18

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	0.000179722	0.000572901	0.00185498	0.00530061	0.00924980
1.00000e+07	0.000368812	0.00102977	0.00232020	0.00413305	0.00541666
1.00000e+06	0.000339160	0.000938106	0.00181507	0.00235456	0.00229435
100000.	0.000189937	0.000526323	0.000917910	0.000994355	0.000819538
10000.0	8.38740e-05	0.000211556	0.000311558	0.000283742	0.000205284
1000.00	2.70629e-05	5.56416e-05	6.68688e-05	5.25945e-05	3.46595e-05
100.000	5.35433e-06	8.84257e-06	9.14947e-06	6.64775e-06	4.19662e-06
10.0000	6.14561e-07	9.09910e-07	9.13852e-07	6.65328e-07	4.22245e-07
1.00000	4.65124e-08	7.63425e-08	8.29588e-08	6.30418e-08	4.08726e-08
0.100000	3.26384e-09	6.71350e-09	7.86580e-09	6.13972e-09	4.02458e-09
0.0100000	2.77808e-10	6.45234e-10	7.75629e-10	6.09890e-10	4.00865e-10
0.00100000	2.69053e-11	6.40620e-11	7.73630e-11	6.09083e-11	4.00520e-11
0.000100000	2.67931e-12	6.39955e-12	7.73298e-12	6.08930e-12	4.00443e-12
1.00000e-05	2.67777e-13	6.39849e-13	7.73239e-13	6.08898e-13	4.00424e-13
1.00000e-06	2.67748e-14	6.39830e-14	7.73222e-14	6.08887e-14	4.00418e-14
1.00000e-07	2.67740e-15	6.39824e-15	7.73222e-15	6.08887e-15	4.00416e-15
1.00000e-08	2.67738e-16	6.39824e-16	7.73222e-16	6.08887e-16	4.00415e-16
1.00000e-09	2.67738e-17	6.39818e-17	7.73216e-17	6.08887e-17	4.00415e-17

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.00959078	0.000828679	0.000588319	0.000498547	0.000471267
1.00000e+07	0.00539412	0.000379577	0.000227587	0.000189496	0.000173558
1.00000e+06	0.00187471	0.000170514	9.79283e-05	7.13717e-05	5.20610e-05
100000.	0.000594720	5.88773e-05	2.91592e-05	1.63438e-05	9.12700e-06
10000.0	0.000136761	1.31064e-05	5.21796e-06	2.32376e-06	1.09526e-06
1000.00	2.17163e-05	1.92991e-06	6.50928e-07	2.56407e-07	1.13099e-07
100.000	2.55578e-06	2.18900e-07	6.86481e-08	2.59916e-08	1.12888e-08
10.0000	2.57709e-07	2.23078e-08	6.89347e-09	2.59297e-09	1.12411e-09
1.00000	2.52120e-08	2.22062e-09	6.87035e-10	2.58453e-10	1.12058e-10
0.100000	2.49514e-09	2.21311e-10	6.85905e-11	2.58145e-11	1.11944e-11
0.0100000	2.48823e-10	2.21065e-11	6.85613e-12	2.58083e-12	1.11924e-12
0.00100000	2.48656e-11	2.20984e-12	6.85522e-13	2.58067e-13	1.11920e-13
0.000100000	2.48613e-12	2.20956e-13	6.85491e-14	2.58062e-14	1.11918e-14
1.00000e-05	2.48600e-13	2.20945e-14	6.85477e-15	2.58059e-15	1.11917e-15
1.00000e-06	2.48597e-14	2.20940e-15	6.85474e-16	2.58059e-16	1.11917e-16
1.00000e-07	2.48595e-15	2.20939e-16	6.85470e-17	2.58058e-17	1.11917e-17
1.00000e-08	2.48594e-16	2.20937e-17	6.85467e-18	2.58058e-18	1.11917e-18
1.00000e-09	2.48594e-17	2.20937e-18	6.85467e-19	2.58058e-19	1.11917e-19

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.000459427	0.000445006	0.000421791	0.000389251	0.000349851
1.00000e+07	0.000153821	0.000129013	0.000103129	7.96687e-05	6.03210e-05
1.00000e+06	3.59562e-05	2.39050e-05	1.56784e-05	1.03436e-05	6.95075e-06
100000.	5.08459e-06	2.89652e-06	1.71501e-06	1.06205e-06	6.87750e-07
10000.0	5.50150e-07	2.96303e-07	1.70634e-07	1.04332e-07	6.72018e-08
1000.00	5.51629e-08	2.93718e-08	1.68481e-08	1.02906e-08	6.62814e-09
100.000	5.47971e-09	2.91436e-09	1.67164e-09	1.02124e-09	6.57944e-10
10.0000	5.45516e-10	2.90166e-10	1.66464e-10	1.01712e-10	6.55366e-11
1.00000	5.43884e-11	2.89336e-11	1.66004e-11	1.01439e-11	6.53655e-12
0.100000	5.43388e-12	2.89092e-12	1.65874e-12	1.01364e-12	6.53196e-13
0.0100000	5.43307e-13	2.89055e-13	1.65855e-13	1.01354e-13	6.53135e-14
0.00100000	5.43291e-14	2.89048e-14	1.65852e-14	1.01352e-14	6.53125e-15
0.000100000	5.43286e-15	2.89048e-15	1.65851e-15	1.01352e-15	6.53121e-16
1.00000e-05	5.43283e-16	2.89045e-16	1.65850e-16	1.01351e-16	6.53121e-17
1.00000e-06	5.43283e-17	2.89045e-17	1.65850e-17	1.01351e-17	6.53121e-18
1.00000e-07	5.43281e-18	2.89045e-18	1.65850e-18	1.01351e-18	6.53121e-19
1.00000e-08	5.43281e-19	2.89045e-19	1.65850e-19	1.01351e-19	6.53121e-20
1.00000e-09	5.43281e-20	2.89045e-20	1.65850e-20	1.01351e-20	6.53121e-21

Pa\K	4000.00
1.00000e+08	0.000307225
1.00000e+07	4.53073e-05
1.00000e+06	4.78934e-06
100000.	4.64239e-07

10000.0	4.52746e-08
1000.00	4.46672e-09
100.000	4.43496e-10
10.0000	4.41801e-11
1.00000	4.40671e-12
0.100000	4.40378e-13
0.0100000	4.40338e-14
0.00100000	4.40331e-15
0.000100000	4.40331e-16
1.00000e-05	4.40329e-17
1.00000e-06	4.40329e-18
1.00000e-07	4.40329e-19
1.00000e-08	4.40329e-20
1.00000e-09	4.40329e-21

Ph+MeAc

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	4.18090e-40	1.62986e-36	1.64847e-34	3.67845e-33	3.82425e-32
1.00000e+07	2.49758e-36	2.55423e-33	3.26579e-31	7.87935e-30	8.24085e-29
1.00000e+06	7.21543e-32	5.71410e-30	4.97591e-28	1.08964e-26	1.07309e-25
100000.	8.54508e-28	2.00615e-26	5.81960e-25	1.08855e-23	1.02140e-22
10000.0	7.34853e-24	1.18786e-22	9.39404e-22	8.47187e-21	6.08981e-20
1000.00	2.86296e-20	3.12234e-19	1.43745e-18	5.64948e-18	2.20113e-17
100.000	3.69945e-17	3.17187e-16	1.22953e-15	3.72698e-15	1.02612e-14
10.0000	2.22044e-14	1.45816e-13	4.71360e-13	1.20153e-12	2.74194e-12
1.00000	5.90846e-12	2.98604e-11	8.10606e-11	1.79499e-10	3.62562e-10
0.100000	7.33682e-10	3.02633e-09	7.25827e-09	1.45145e-08	2.66353e-08
0.0100000	4.48322e-08	1.33219e-07	2.55229e-07	4.26748e-07	6.71024e-07
0.00100000	8.41079e-07	1.73659e-06	2.70718e-06	3.87806e-06	5.34076e-06
0.000100000	5.04199e-06	7.06157e-06	8.68473e-06	1.04514e-05	1.25208e-05
1.00000e-05	9.12304e-06	9.97593e-06	1.10541e-05	1.25305e-05	1.44295e-05
1.00000e-06	9.91712e-06	1.04014e-05	1.13615e-05	1.27828e-05	1.46513e-05
1.00000e-07	1.00039e-05	1.04458e-05	1.13931e-05	1.28086e-05	1.46738e-05
1.00000e-08	1.00126e-05	1.04503e-05	1.13963e-05	1.28111e-05	1.46761e-05
1.00000e-09	1.00135e-05	1.04507e-05	1.13966e-05	1.28114e-05	1.46763e-05

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	2.55022e-31	1.28225e-30	5.33347e-30	1.94536e-29	6.46827e-29
1.00000e+07	5.35271e-28	2.58156e-27	1.02203e-26	3.53354e-26	1.11125e-25
1.00000e+06	6.66791e-25	3.10512e-24	1.19409e-23	4.02620e-23	1.23820e-22
100000.	6.14957e-22	2.78507e-21	1.04188e-20	3.41315e-20	1.01756e-19
10000.0	3.17486e-19	1.29112e-18	4.39712e-18	1.31950e-17	3.61464e-17
1000.00	8.10373e-17	2.69753e-16	8.10085e-16	2.22989e-15	5.73241e-15
100.000	2.70269e-14	6.88923e-14	1.69588e-13	4.02191e-13	9.19697e-13
10.0000	5.91835e-12	1.24105e-11	2.55689e-11	5.19461e-11	1.04177e-10
1.00000	7.01355e-10	1.33218e-09	2.51178e-09	4.71227e-09	8.78277e-09
0.100000	4.67286e-08	8.00196e-08	1.35015e-07	2.25104e-07	3.70799e-07
0.0100000	1.02289e-06	1.53496e-06	2.28345e-06	3.37407e-06	4.94850e-06
0.00100000	7.19685e-06	9.57416e-06	1.26276e-05	1.65350e-05	2.14959e-05
0.000100000	1.50080e-05	1.80439e-05	2.17808e-05	2.63885e-05	3.20545e-05
1.00000e-05	1.68115e-05	1.97820e-05	2.34796e-05	2.80661e-05	3.37230e-05
1.00000e-06	1.70147e-05	1.99735e-05	2.36635e-05	2.82452e-05	3.38991e-05
1.00000e-07	1.70353e-05	1.99928e-05	2.36821e-05	2.82632e-05	3.39169e-05
1.00000e-08	1.70374e-05	1.99948e-05	2.36839e-05	2.82650e-05	3.39186e-05
1.00000e-09	1.70376e-05	1.99950e-05	2.36841e-05	2.82652e-05	3.39188e-05

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.01334e-28	5.97528e-28	1.71220e-27	4.77688e-27	1.30460e-26
1.00000e+07	3.26857e-25	9.16749e-25	2.48488e-24	6.56865e-24	1.70363e-23
1.00000e+06	3.56805e-22	9.81579e-22	2.61137e-21	6.77701e-21	1.72540e-20
100000.	2.83402e-19	7.50784e-19	1.91550e-18	4.74616e-18	1.14839e-17
10000.0	9.26669e-17	2.26276e-16	5.32874e-16	1.22097e-15	2.73849e-15
1000.00	1.39875e-14	3.28089e-14	7.46654e-14	1.65916e-13	3.61466e-13
100.000	2.03439e-12	4.37110e-12	9.15983e-12	1.87882e-11	3.78346e-11
10.0000	2.06410e-10	4.04512e-10	7.84992e-10	1.50962e-09	2.87734e-09
1.00000	1.62193e-08	2.96042e-08	5.33001e-08	9.45106e-08	1.64853e-07
0.100000	6.02924e-07	9.67045e-07	1.52951e-06	2.38536e-06	3.66835e-06
0.0100000	7.19139e-06	1.03374e-05	1.46778e-05	2.05646e-05	2.84128e-05
0.00100000	2.77305e-05	3.54828e-05	4.50231e-05	5.66516e-05	7.07009e-05
0.000100000	3.89849e-05	4.74094e-05	5.75850e-05	6.97998e-05	8.43762e-05
1.00000e-05	4.06526e-05	4.90813e-05	5.92637e-05	7.14863e-05	8.60694e-05
1.00000e-06	4.08270e-05	4.92550e-05	5.94371e-05	7.16594e-05	8.62426e-05
1.00000e-07	4.08445e-05	4.92724e-05	5.94545e-05	7.16768e-05	8.62600e-05
1.00000e-08	4.08463e-05	4.92741e-05	5.94563e-05	7.16785e-05	8.62617e-05
1.00000e-09	4.08465e-05	4.92743e-05	5.94564e-05	7.16787e-05	8.62619e-05

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.49953e-26	9.23875e-26	2.40310e-25	6.16199e-25	1.55786e-24
1.00000e+07	4.35167e-23	1.09726e-22	2.73458e-22	6.73980e-22	1.64298e-21
1.00000e+06	4.32457e-20	1.06921e-19	2.61020e-19	6.29404e-19	1.49895e-18
100000.	2.72308e-17	6.34181e-17	1.45256e-16	3.27482e-16	7.27104e-16
10000.0	6.03715e-15	1.31170e-14	2.81341e-14	5.96251e-14	1.24907e-13
1000.00	7.73883e-13	1.63006e-12	3.37920e-12	6.89422e-12	1.38401e-11
100.000	7.49823e-11	1.46531e-10	2.82770e-10	5.39382e-10	1.01753e-09
10.0000	5.43247e-09	1.01479e-08	1.87256e-08	3.40731e-08	6.10321e-08
1.00000	2.82614e-07	4.75908e-07	7.86950e-07	1.27772e-06	2.03719e-06
0.100000	5.56312e-06	8.31893e-06	1.22646e-05	1.78231e-05	2.55242e-05
0.0100000	3.86987e-05	5.19560e-05	6.87673e-05	8.97544e-05	0.000115566
0.00100000	8.75371e-05	0.000107561	0.000131205	0.000158934	0.000191238
0.000100000	0.000101673	0.000122083	0.000146037	0.000173996	0.000206449
1.00000e-05	0.000103370	0.000123783	0.000147734	0.000175687	0.000208129
1.00000e-06	0.000103543	0.000123955	0.000147907	0.000175858	0.000208299
1.00000e-07	0.000103561	0.000123973	0.000147924	0.000175876	0.000208316
1.00000e-08	0.000103562	0.000123974	0.000147925	0.000175877	0.000208317
1.00000e-09	0.000103563	0.000123975	0.000147926	0.000175878	0.000208318

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	3.88234e-24	9.52981e-24	2.30089e-23	5.45281e-23	1.26501e-22
1.00000e+07	3.96022e-21	9.43137e-21	2.21617e-20	5.12757e-20	1.16506e-19
1.00000e+06	3.52423e-18	8.17382e-18	1.86790e-17	4.19866e-17	9.26337e-17
100000.	1.59036e-15	3.42714e-15	7.27495e-15	1.52042e-14	3.12546e-14
10000.0	2.58643e-13	5.29188e-13	1.06911e-12	2.13072e-12	4.18372e-12
1000.00	2.73343e-11	5.31097e-11	1.01523e-10	1.90957e-10	3.53448e-10
100.000	1.89852e-09	3.50230e-09	6.38351e-09	1.14844e-08	2.03704e-08
10.0000	1.07454e-07	1.85727e-07	3.14891e-07	5.23441e-07	8.52945e-07
1.00000	3.19045e-06	4.90955e-06	7.42631e-06	1.10464e-05	1.61644e-05
0.100000	3.60137e-05	5.00559e-05	6.85305e-05	9.24194e-05	0.000122785
0.0100000	0.000146863	0.000184309	0.000228551	0.000280215	0.000339882
0.00100000	0.000228629	0.000271634	0.000320786	0.000376616	0.000439646
0.000100000	0.000243909	0.000286904	0.000335970	0.000391642	0.000454447
1.00000e-05	0.000245573	0.000288547	0.000337587	0.000393229	0.000455997
1.00000e-06	0.000245741	0.000288712	0.000337750	0.000393388	0.000456153
1.00000e-07	0.000245758	0.000288729	0.000337766	0.000393404	0.000456168
1.00000e-08	0.000245759	0.000288730	0.000337767	0.000393405	0.000456170
1.00000e-09	0.000245760	0.000288730	0.000337767	0.000393405	0.000456170

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	2.86445e-22	6.31295e-22	1.35092e-21	3.53410e-21	2.41562e-21
1.00000e+07	2.59183e-19	5.62837e-19	1.18994e-18	2.74101e-18	7.63597e-18
1.00000e+06	2.00108e-16	4.22201e-16	8.68054e-16	1.03769e-15	8.31809e-15
100000.	6.31097e-14	1.24965e-13	2.42230e-13	1.32088e-12	3.52062e-12
10000.0	8.08135e-12	1.53310e-11	2.85159e-11	8.99617e-11	1.06995e-10
1000.00	6.43752e-10	1.15347e-09	2.03229e-09	3.80559e-09	2.18292e-09
100.000	3.55786e-08	6.11130e-08	1.03114e-07	1.10038e-07	2.96926e-07
10.0000	1.36254e-06	2.13431e-06	3.27949e-06	1.79603e-06	0.000247846
1.00000	2.32782e-05	3.30024e-05	4.60771e-05	0.000145308	0.000102720
0.100000	0.000160745	0.000207430	0.000263948	0.000501142	0.000192887
0.0100000	0.000408094	0.000485329	0.000572002	0.00071965	0.000223718
0.00100000	0.000510374	0.000589268	0.000676754	0.000832259	0.000228133
0.000100000	0.000524888	0.000603439	0.000690532	0.000839463	0.000228603
1.00000e-05	0.000526398	0.000604905	0.000691951	0.000840202	0.000228650
1.00000e-06	0.000526549	0.000605052	0.000692093	0.000840277	0.000228654
1.00000e-07	0.000526565	0.000605066	0.000692108	0.000840284	0.000228655
1.00000e-08	0.000526566	0.000605068	0.000692109	0.000840285	0.000228655
1.00000e-09	0.000526566	0.000605068	0.000692109	0.000840285	0.000228655

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	1.34759e-11	4.21441e-09	6.44657e-08	3.66420e-07	1.99215e-06
1.00000e+07	4.20458e-10	3.63711e-08	4.98341e-07	2.80465e-06	1.23645e-05
1.00000e+06	1.26076e-08	3.18894e-07	2.49493e-06	1.21669e-05	4.97542e-05
100000.	2.06717e-07	2.72274e-06	1.73669e-05	7.64909e-05	0.000275522
10000.0	3.13152e-06	2.79222e-05	0.000148251	0.000534153	0.00142960
1000.00	3.56231e-05	0.000241104	0.000965672	0.00244530	0.00443813
100.000	0.000291309	0.00133733	0.00348135	0.00589459	0.00764863
10.0000	0.00138857	0.00380381	0.00644724	0.00816871	0.00890680
1.00000	0.00318622	0.00574637	0.00765659	0.00869662	0.00909044
0.100000	0.00413350	0.00628271	0.00785224	0.00875221	0.00910543
0.0100000	0.00431674	0.00635517	0.00787408	0.00875807	0.00910708
0.00100000	0.00433795	0.00636301	0.00787648	0.00875881	0.00910729
0.000100000	0.00434012	0.00636381	0.00787671	0.00875888	0.00910729
1.00000e-05	0.00434033	0.00636389	0.00787679	0.00875888	0.00910729
1.00000e-06	0.00434036	0.00636390	0.00787679	0.00875888	0.00910729

1.00000e-07	0.00434036	0.00636390	0.00787679	0.00875888	0.00910729
1.00000e-08	0.00434036	0.00636390	0.00787679	0.00875888	0.00910729
1.00000e-09	0.00434036	0.00636390	0.00787679	0.00875888	0.00910729

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	9.37012e-06	2.94048e-05	7.61101e-05	0.000187524	0.000307252
1.00000e+07	4.78290e-05	0.000162263	0.000460525	0.000988470	0.00148445
1.00000e+06	0.000181673	0.000573129	0.00137733	0.00237242	0.00308189
100000.	0.000802516	0.00183947	0.00322290	0.00435970	0.00489526
10000.0	0.00287174	0.00451744	0.00579449	0.00637152	0.00639927
1000.00	0.00621531	0.00729746	0.00764635	0.00750522	0.00714297
100.000	0.00843680	0.00853871	0.00826736	0.00783134	0.00734444
10.0000	0.00900771	0.00877233	0.00836488	0.00787972	0.00737441
1.00000	0.00906907	0.00879411	0.00837404	0.00788459	0.00737752
0.100000	0.00907409	0.00879611	0.00837502	0.00788510	0.00737786
0.0100000	0.00907467	0.00879642	0.00837514	0.00788521	0.00737791
0.00100000	0.00907480	0.00879642	0.00837514	0.00788521	0.00737791
0.000100000	0.00907480	0.00879642	0.00837514	0.00788521	0.00737791
1.00000e-05	0.00907480	0.00879642	0.00837514	0.00788521	0.00737791
1.00000e-06	0.00907480	0.00879642	0.00837514	0.00788521	0.00737791
1.00000e-07	0.00907480	0.00879642	0.00837514	0.00788521	0.00737791
1.00000e-08	0.00907480	0.00879642	0.00837514	0.00788521	0.00737791
1.00000e-09	0.00907480	0.00879642	0.00837514	0.00788521	0.00737791

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.000312145	0.00260679	0.00360075	0.00380228	0.00373772
1.00000e+07	0.00166195	0.00334647	0.00419124	0.00432653	0.00420003
1.00000e+06	0.00338143	0.00443017	0.00487493	0.00479522	0.00455471
100000.	0.00498436	0.00559035	0.00548846	0.00512840	0.00474520
10000.0	0.00616967	0.00635085	0.00579519	0.00524592	0.00479325
1000.00	0.00671816	0.00663797	0.00587785	0.00526875	0.00480041
100.000	0.00686229	0.00670131	0.00589166	0.00527179	0.00480124
10.0000	0.00688372	0.00671015	0.00589330	0.00527211	0.00480130
1.00000	0.00688597	0.00671111	0.00589348	0.00527212	0.00480131
0.100000	0.00688623	0.00671121	0.00589349	0.00527212	0.00480131
0.0100000	0.00688624	0.00671122	0.00589349	0.00527212	0.00480131
0.00100000	0.00688624	0.00671122	0.00589349	0.00527212	0.00480131
0.000100000	0.00688624	0.00671122	0.00589349	0.00527212	0.00480131
1.00000e-05	0.00688624	0.00671122	0.00589349	0.00527212	0.00480131
1.00000e-06	0.00688624	0.00671122	0.00589349	0.00527212	0.00480131
1.00000e-07	0.00688624	0.00671122	0.00589349	0.00527212	0.00480131
1.00000e-08	0.00688624	0.00671122	0.00589349	0.00527212	0.00480131
1.00000e-09	0.00688624	0.00671122	0.00589349	0.00527212	0.00480131

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.00363722	0.00354540	0.00347260	0.00341998	0.00338473
1.00000e+07	0.00405023	0.00392135	0.00381628	0.00373076	0.00366037
1.00000e+06	0.00432031	0.00412002	0.00395731	0.00382870	0.00372791
100000.	0.00442532	0.00417575	0.00398665	0.00384452	0.00373679
10000.0	0.00444503	0.00418396	0.00399022	0.00384620	0.00373765
1000.00	0.00444746	0.00418484	0.00399058	0.00384635	0.00373773
100.000	0.00444770	0.00418493	0.00399062	0.00384636	0.00373773
10.0000	0.00444775	0.00418496	0.00399062	0.00384636	0.00373773
1.00000	0.00444775	0.00418496	0.00399061	0.00384635	0.00373773
0.100000	0.00444775	0.00418496	0.00399061	0.00384635	0.00373773
0.0100000	0.00444775	0.00418496	0.00399061	0.00384635	0.00373773
0.00100000	0.00444775	0.00418496	0.00399061	0.00384635	0.00373773
0.000100000	0.00444775	0.00418496	0.00399061	0.00384635	0.00373773
1.00000e-05	0.00444775	0.00418496	0.00399061	0.00384635	0.00373773
1.00000e-06	0.00444775	0.00418496	0.00399061	0.00384635	0.00373773
1.00000e-07	0.00444775	0.00418496	0.00399061	0.00384635	0.00373773
1.00000e-08	0.00444775	0.00418496	0.00399061	0.00384635	0.00373773
1.00000e-09	0.00444775	0.00418496	0.00399061	0.00384635	0.00373773

Pa\K	4000.00
1.00000e+08	0.00336217
1.00000e+07	0.00360144
1.00000e+06	0.00364814
100000.	0.00365342
10000.0	0.00365390
1000.00	0.00365395
100.000	0.00365394
10.0000	0.00365394
1.00000	0.00365394
0.100000	0.00365394
0.0100000	0.00365394

0.00100000 | 0.00365394
 0.000100000 | 0.00365394
 1.00000e-05 | 0.00365394
 1.00000e-06 | 0.00365394
 1.00000e-07 | 0.00365394
 1.00000e-08 | 0.00365394
 1.00000e-09 | 0.00365394

PhcycC3H3_A+H

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.29433e-58	7.11438e-56	7.93567e-54	2.45561e-52	4.40121e-51
1.00000e+07	2.41539e-55	9.74051e-54	8.09488e-52	2.46379e-50	4.40469e-49
1.00000e+06	2.66567e-52	3.62558e-51	9.67840e-50	2.54489e-48	4.43946e-47
100000.	2.66976e-49	2.96294e-48	2.50584e-47	3.32473e-46	4.76884e-45
10000.0	2.44925e-46	2.44224e-45	1.40917e-44	8.64798e-44	6.67621e-43
1000.00	1.13977e-43	6.28909e-43	2.23614e-42	8.27393e-42	3.70214e-41
100.000	3.98620e-42	1.08440e-41	2.89405e-41	9.07572e-41	3.66724e-40
10.0000	4.13649e-41	1.08491e-40	2.82542e-40	8.68185e-40	3.46580e-39
1.00000	3.92676e-40	9.68919e-40	2.38706e-39	6.96732e-39	2.65275e-38
0.100000	2.30193e-39	3.53508e-39	5.82162e-39	1.19786e-38	3.35382e-38
0.0100000	6.49683e-40	1.56339e-40	8.25048e-41	7.81585e-41	1.26384e-40
0.00100000	3.39895e-43	2.60902e-44	1.02948e-44	9.70986e-45	1.97054e-44
0.000100000	5.31280e-47	9.82934e-48	7.95447e-48	1.54703e-47	8.04614e-47
1.00000e-05	2.83000e-49	1.53553e-49	2.13440e-49	6.26318e-49	4.74604e-48
1.00000e-06	1.68937e-50	1.18158e-50	1.80732e-50	5.64252e-50	4.48701e-49
1.00000e-07	1.59636e-51	1.14959e-51	1.77664e-51	5.58302e-51	4.46175e-50
1.00000e-08	1.58726e-52	1.14642e-52	1.77360e-52	5.57709e-52	4.45923e-51
1.00000e-09	1.58635e-53	1.14610e-53	1.77329e-53	5.57650e-53	4.45897e-52

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	6.45302e-50	9.86760e-49	2.05700e-47	7.85030e-46	5.57289e-44
1.00000e+07	6.45350e-48	9.86535e-47	2.05620e-45	7.84668e-44	5.57034e-42
1.00000e+06	6.45904e-46	9.84474e-45	2.04867e-43	7.81201e-42	5.54544e-40
100000.	6.50655e-44	9.64144e-43	1.97593e-41	7.47943e-40	5.30707e-38
10000.0	6.41414e-42	7.82045e-41	1.42901e-39	5.12144e-38	3.63838e-36
1000.00	2.21867e-40	1.94189e-39	2.90884e-38	9.71626e-37	7.28224e-35
100.000	2.10020e-39	1.83235e-38	2.79144e-37	9.54138e-36	7.35203e-34
10.0000	1.98182e-38	1.73657e-37	2.65778e-36	9.11723e-35	7.05658e-33
1.00000	1.45252e-37	1.22316e-36	1.81130e-35	6.15036e-34	4.90643e-32
0.100000	1.40091e-37	9.36595e-37	1.19524e-35	4.47140e-34	5.42001e-32
0.0100000	3.65149e-40	2.15338e-39	5.11743e-38	1.09466e-35	5.77600e-33
0.00100000	1.05308e-43	3.17000e-42	8.11203e-40	6.29104e-37	5.40419e-34
0.000100000	1.46505e-45	1.56634e-43	6.53631e-41	5.88999e-38	5.35800e-35
1.00000e-05	1.15701e-46	1.46282e-44	6.39553e-42	5.85057e-39	5.35327e-36
1.00000e-06	1.12979e-47	1.45291e-45	6.38160e-43	5.84663e-40	5.35280e-37
1.00000e-07	1.12711e-48	1.45193e-46	6.38021e-44	5.84624e-41	5.35275e-38
1.00000e-08	1.12684e-49	1.45183e-47	6.38007e-45	5.84620e-42	5.35275e-39
1.00000e-09	1.12681e-50	1.45182e-48	6.38006e-46	5.84620e-43	5.35275e-40

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	5.23998e-42	3.52083e-40	1.53865e-38	4.26091e-37	8.29117e-36
1.00000e+07	5.23784e-40	3.51948e-38	1.53805e-36	4.25920e-35	8.28761e-34
1.00000e+06	5.21675e-38	3.50612e-36	1.53216e-34	4.24211e-33	8.25219e-32
100000.	5.01459e-36	3.37808e-34	1.47571e-32	4.07923e-31	7.91582e-30
10000.0	3.58361e-34	2.46901e-32	1.07999e-30	2.95909e-29	5.65800e-28
1000.00	8.57109e-33	6.50721e-31	2.93577e-29	8.01343e-28	1.50314e-26
100.000	9.50482e-32	7.61673e-30	3.52391e-28	9.65325e-27	1.80381e-25
10.0000	9.30833e-31	7.53047e-29	3.49478e-27	9.55723e-26	1.77942e-24
1.00000	7.11117e-30	5.91343e-28	2.73533e-26	7.36648e-25	1.34240e-23
0.100000	1.79005e-29	1.76737e-27	8.40050e-26	2.22094e-24	3.91270e-23
0.0100000	1.83886e-29	2.10692e-27	1.03835e-25	2.75383e-24	4.82313e-23
0.00100000	1.82840e-29	2.14230e-27	1.06215e-25	2.81951e-24	4.93613e-23
0.000100000	1.82717e-29	2.14582e-27	1.06458e-25	2.82622e-24	4.94770e-23
1.00000e-05	1.82704e-29	2.14617e-27	1.06482e-25	2.82689e-24	4.94886e-23
1.00000e-06	1.82703e-29	2.14621e-27	1.06484e-25	2.82696e-24	4.94897e-23
1.00000e-07	1.82703e-29	2.14621e-27	1.06485e-25	2.82697e-24	4.94898e-23
1.00000e-08	1.82703e-29	2.14621e-27	1.06485e-25	2.82697e-24	4.94899e-23
1.00000e-09	1.82703e-29	2.14621e-27	1.06485e-25	2.82697e-24	4.94899e-23

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.18951e-34	1.31976e-33	1.17225e-32	8.57183e-32	5.27749e-31
1.00000e+07	1.18896e-32	1.31909e-31	1.17162e-30	8.56685e-30	5.27420e-29
1.00000e+06	1.18351e-30	1.31256e-29	1.16536e-28	8.51758e-28	5.24176e-27
100000.	1.13191e-28	1.25106e-27	1.10667e-26	8.05834e-26	4.94076e-25
10000.0	7.94586e-27	8.60355e-26	7.44652e-25	5.30402e-24	3.18272e-23

1000.00	2.05566e-25	2.15872e-24	1.80896e-23	1.24735e-22	7.25307e-22
100.000	2.44937e-24	2.54964e-23	2.11625e-22	1.44515e-21	8.32432e-21
10.0000	2.40491e-23	2.48934e-22	2.05314e-21	1.39244e-20	7.96276e-20
1.00000	1.76880e-22	1.77847e-21	1.42066e-20	9.31140e-20	5.13914e-19
0.100000	4.94607e-22	4.74777e-21	3.61148e-20	2.25224e-19	1.18343e-18
0.0100000	6.03549e-22	5.72270e-21	4.29613e-20	2.64397e-19	1.37157e-18
0.00100000	6.17044e-22	5.84261e-21	4.37951e-20	2.69115e-19	1.39397e-18
0.000100000	6.18425e-22	5.85487e-21	4.38804e-20	2.69597e-19	1.39625e-18
1.00000e-05	6.18563e-22	5.85610e-21	4.38889e-20	2.69645e-19	1.39648e-18
1.00000e-06	6.18577e-22	5.85622e-21	4.38898e-20	2.69650e-19	1.39651e-18
1.00000e-07	6.18578e-22	5.85623e-21	4.38898e-20	2.69650e-19	1.39651e-18
1.00000e-08	6.18579e-22	5.85623e-21	4.38899e-20	2.69650e-19	1.39651e-18
1.00000e-09	6.18579e-22	5.85623e-21	4.38899e-20	2.69650e-19	1.39651e-18

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.78680e-30	1.28187e-29	5.20525e-29	1.88782e-28	6.17854e-28
1.00000e+07	2.78495e-28	1.28097e-27	5.20142e-27	1.88636e-26	6.17361e-26
1.00000e+06	2.76675e-26	1.27214e-25	5.16382e-25	1.87215e-24	6.12541e-24
100000.	2.59859e-24	1.19083e-23	4.81884e-23	1.74216e-22	5.68566e-22
10000.0	1.63997e-22	7.37270e-22	2.93122e-21	1.04276e-20	3.35350e-20
1000.00	3.62788e-21	1.58660e-20	6.15046e-20	2.13820e-19	6.73420e-19
100.000	4.12673e-20	1.78992e-19	6.88650e-19	2.37777e-18	7.44274e-18
10.0000	3.91820e-19	1.68677e-18	6.44152e-18	2.20793e-17	6.86206e-17
1.00000	2.43932e-18	1.01312e-17	3.73535e-17	1.23750e-16	3.72241e-16
0.100000	5.35637e-18	2.12638e-17	7.51471e-17	2.39373e-16	6.94505e-16
0.0100000	6.13338e-18	2.40778e-17	8.42298e-17	2.65853e-16	7.65029e-16
0.00100000	6.22483e-18	2.44053e-17	8.52756e-17	2.68872e-16	7.72993e-16
0.000100000	6.23414e-18	2.44385e-17	8.53818e-17	2.69178e-16	7.73800e-16
1.00000e-05	6.23507e-18	2.44419e-17	8.53924e-17	2.69209e-16	7.73881e-16
1.00000e-06	6.23517e-18	2.44422e-17	8.53935e-17	2.69212e-16	7.73888e-16
1.00000e-07	6.23517e-18	2.44422e-17	8.53936e-17	2.69212e-16	7.73889e-16
1.00000e-08	6.23517e-18	2.44422e-17	8.53936e-17	2.69212e-16	7.73889e-16
1.00000e-09	6.23517e-18	2.44422e-17	8.53936e-17	2.69212e-16	7.73889e-16

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	1.84174e-27	5.04170e-27	1.27690e-26	1.88187e-23	8.56769e-19
1.00000e+07	1.84022e-25	5.03743e-25	1.27578e-24	1.87695e-21	5.18988e-17
1.00000e+06	1.82540e-23	4.99577e-23	1.26500e-22	1.97716e-19	9.66481e-15
100000.	1.69050e-21	4.61722e-21	1.16705e-20	1.38393e-17	8.63413e-14
10000.0	9.83879e-20	2.65480e-19	6.63638e-19	2.38552e-16	1.58526e-13
1000.00	1.93861e-18	5.14154e-18	1.26518e-17	2.27912e-15	1.11369e-12
100.000	2.13071e-17	5.62272e-17	1.37730e-16	1.83215e-14	7.13058e-12
10.0000	1.95096e-16	5.11407e-16	1.24465e-15	7.15089e-14	1.95692e-11
1.00000	1.02584e-15	2.61055e-15	6.17744e-15	7.48997e-14	2.38670e-11
0.100000	1.85181e-15	4.57295e-15	1.05295e-14	5.20768e-14	2.38471e-11
0.0100000	2.02502e-15	4.96846e-15	1.13750e-14	4.92093e-14	2.38173e-11
0.00100000	2.04441e-15	5.01238e-15	1.14682e-14	4.89461e-14	2.38141e-11
0.000100000	2.04638e-15	5.01682e-15	1.14776e-14	4.89201e-14	2.38137e-11
1.00000e-05	2.04657e-15	5.01727e-15	1.14786e-14	4.89175e-14	2.38137e-11
1.00000e-06	2.04659e-15	5.01731e-15	1.14787e-14	4.89173e-14	2.38137e-11
1.00000e-07	2.04659e-15	5.01732e-15	1.14787e-14	4.89173e-14	2.38137e-11
1.00000e-08	2.04659e-15	5.01732e-15	1.14787e-14	4.89173e-14	2.38137e-11
1.00000e-09	2.04659e-15	5.01732e-15	1.14787e-14	4.89173e-14	2.38137e-11

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	4.88070e-13	4.76801e-10	9.03480e-09	5.13699e-08	2.57161e-07
1.00000e+07	5.52926e-12	3.82046e-09	6.71245e-08	2.83101e-07	7.82119e-07
1.00000e+06	1.26623e-10	1.15399e-08	1.00494e-07	2.65880e-07	5.99751e-07
100000.	2.39721e-10	1.41985e-08	8.15766e-08	2.18710e-07	8.98077e-07
10000.0	9.06262e-11	6.18401e-09	6.59087e-08	3.86866e-07	1.93892e-06
1000.00	1.67572e-10	7.63000e-09	1.08402e-07	6.87011e-07	2.76805e-06
100.000	6.41820e-10	1.58027e-08	1.54932e-07	8.16401e-07	2.94684e-06
10.0000	1.13336e-09	2.00878e-08	1.65849e-07	8.28642e-07	2.95318e-06
1.00000	1.25053e-09	2.06888e-08	1.66336e-07	8.28062e-07	2.95225e-06
0.100000	1.26087e-09	2.07285e-08	1.66293e-07	8.27896e-07	2.95212e-06
0.0100000	1.26176e-09	2.07315e-08	1.66288e-07	8.27884e-07	2.95211e-06
0.00100000	1.26185e-09	2.07318e-08	1.66287e-07	8.27884e-07	2.95211e-06
0.000100000	1.26186e-09	2.07318e-08	1.66287e-07	8.27884e-07	2.95211e-06
1.00000e-05	1.26187e-09	2.07318e-08	1.66287e-07	8.27884e-07	2.95211e-06
1.00000e-06	1.26187e-09	2.07318e-08	1.66287e-07	8.27884e-07	2.95211e-06
1.00000e-07	1.26187e-09	2.07318e-08	1.66287e-07	8.27884e-07	2.95211e-06
1.00000e-08	1.26187e-09	2.07318e-08	1.66287e-07	8.27884e-07	2.95211e-06
1.00000e-09	1.26187e-09	2.07318e-08	1.66287e-07	8.27884e-07	2.95211e-06

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	1.45310e-06	6.28801e-06	1.87799e-05	4.22509e-05	5.18129e-05

1.00000e+07	3.02404e-06	1.79713e-05	8.20750e-05	0.000226166	0.000361798
1.00000e+06	2.96752e-06	1.97077e-05	8.96121e-05	0.000252015	0.000456010
100000.	4.84052e-06	2.13410e-05	6.77521e-05	0.000156702	0.000276844
10000.0	7.37726e-06	2.13761e-05	4.93893e-05	9.53904e-05	0.000160578
1000.00	8.27654e-06	2.00019e-05	4.12516e-05	7.54087e-05	0.000125484
100.000	8.28819e-06	1.93932e-05	3.93941e-05	7.16234e-05	0.000119173
10.0000	8.26465e-06	1.92889e-05	3.91406e-05	7.11428e-05	0.000118389
1.00000	8.26107e-06	1.92772e-05	3.91137e-05	7.10932e-05	0.000118308
0.100000	8.26075e-06	1.92760e-05	3.91111e-05	7.10885e-05	0.000118300
0.0100000	8.26073e-06	1.92759e-05	3.91108e-05	7.10879e-05	0.000118299
0.00100000	8.26073e-06	1.92759e-05	3.91108e-05	7.10879e-05	0.000118299
0.000100000	8.26073e-06	1.92759e-05	3.91108e-05	7.10879e-05	0.000118299
1.00000e-05	8.26073e-06	1.92759e-05	3.91108e-05	7.10879e-05	0.000118299
1.00000e-06	8.26073e-06	1.92759e-05	3.91108e-05	7.10879e-05	0.000118299
1.00000e-07	8.26073e-06	1.92759e-05	3.91108e-05	7.10879e-05	0.000118299
1.00000e-08	8.26073e-06	1.92759e-05	3.91108e-05	7.10879e-05	0.000118299
1.00000e-09	8.26073e-06	1.92759e-05	3.91108e-05	7.10879e-05	0.000118299

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	3.92600e-05	0.00644865	0.00772879	0.00796956	0.00793486
1.00000e+07	0.000397301	0.00684124	0.00857831	0.00890783	0.00842902
1.00000e+06	0.000618185	0.00512140	0.00669840	0.00621889	0.00520278
100000.	0.000403979	0.00258149	0.00327307	0.00293167	0.00281185
10000.0	0.000242653	0.00103434	0.00144170	0.00172503	0.00220793
1000.00	0.000193253	0.000576718	0.000993803	0.00150476	0.00212207
100.000	0.000184383	0.000497823	0.000927275	0.00147746	0.00211272
10.0000	0.000183283	0.000488209	0.000919762	0.00147461	0.00211179
1.00000	0.000183170	0.000487220	0.000919006	0.00147433	0.00211170
0.100000	0.000183159	0.000487126	0.000918932	0.00147430	0.00211169
0.0100000	0.000183158	0.000487115	0.000918925	0.00147430	0.00211169
0.00100000	0.000183158	0.000487115	0.000918925	0.00147430	0.00211168
0.000100000	0.000183158	0.000487115	0.000918925	0.00147430	0.00211168
1.00000e-05	0.000183158	0.000487115	0.000918925	0.00147430	0.00211168
1.00000e-06	0.000183158	0.000487115	0.000918925	0.00147430	0.00211168
1.00000e-07	0.000183158	0.000487115	0.000918925	0.00147430	0.00211168
1.00000e-08	0.000183158	0.000487115	0.000918925	0.00147430	0.00211168
1.00000e-09	0.000183158	0.000487115	0.000918925	0.00147430	0.00211168

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.00785396	0.00772747	0.00754698	0.00732470	0.00708783
1.00000e+07	0.00769860	0.00699756	0.00647459	0.00617162	0.00605931
1.00000e+06	0.00458724	0.00443919	0.00460280	0.00492110	0.00528716
100000.	0.00309871	0.00359308	0.00414828	0.00468675	0.00517146
10000.0	0.00282207	0.00346902	0.00409250	0.00466167	0.00516047
1000.00	0.00278912	0.00345585	0.00408700	0.00465935	0.00515950
100.000	0.00278579	0.00345457	0.00408648	0.00465913	0.00515941
10.0000	0.00278546	0.00345445	0.00408644	0.00465911	0.00515939
1.00000	0.00278544	0.00345445	0.00408643	0.00465910	0.00515939
0.100000	0.00278544	0.00345445	0.00408643	0.00465910	0.00515939
0.0100000	0.00278544	0.00345445	0.00408643	0.00465910	0.00515939
0.00100000	0.00278544	0.00345445	0.00408643	0.00465910	0.00515939
0.000100000	0.00278544	0.00345445	0.00408643	0.00465910	0.00515939
1.00000e-05	0.00278544	0.00345445	0.00408643	0.00465910	0.00515939
1.00000e-06	0.00278544	0.00345445	0.00408643	0.00465910	0.00515939
1.00000e-07	0.00278544	0.00345445	0.00408643	0.00465910	0.00515939
1.00000e-08	0.00278544	0.00345445	0.00408643	0.00465910	0.00515939
1.00000e-09	0.00278544	0.00345445	0.00408643	0.00465910	0.00515939

Pa\K	4000.00
1.00000e+08	0.00686543
1.00000e+07	0.00607878
1.00000e+06	0.00563975
100000.	0.00558665
10000.0	0.00558224
1000.00	0.00558189
100.000	0.00558187
10.0000	0.00558187
1.00000	0.00558187
0.100000	0.00558187
0.0100000	0.00558187
0.00100000	0.00558187
0.000100000	0.00558187
1.00000e-05	0.00558187
1.00000e-06	0.00558187
1.00000e-07	0.00558187
1.00000e-08	0.00558187
1.00000e-09	0.00558187

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	6.43000e-47	1.23935e-42	2.75933e-40	9.35675e-39	1.23774e-37
1.00000e+07	6.48125e-41	7.21639e-38	1.26872e-35	3.71161e-34	4.34909e-33
1.00000e+06	2.38558e-35	2.12884e-33	1.97289e-31	5.11306e-30	5.61115e-29
100000.	2.89024e-30	1.13865e-28	2.70209e-27	5.27219e-26	5.38584e-25
10000.0	2.55721e-25	7.94047e-24	6.93607e-23	5.31098e-22	3.59260e-21
1000.00	1.09287e-20	2.31974e-19	1.38274e-18	5.54387e-18	1.94125e-17
100.000	1.47916e-16	2.38285e-15	1.19299e-14	3.92702e-14	1.05731e-13
10.0000	7.40504e-13	7.37629e-12	2.63293e-11	6.56102e-11	1.37287e-10
1.00000	5.60046e-10	2.96093e-09	7.59956e-09	1.52331e-08	2.70986e-08
0.100000	8.13114e-08	3.26089e-07	7.26461e-07	1.30926e-06	2.12013e-06
0.0100000	5.05425e-06	1.43245e-05	2.52467e-05	3.79290e-05	5.27680e-05
0.00100000	8.98782e-05	0.000175887	0.000252697	0.000326475	0.000400016
0.000100000	0.000495423	0.000641314	0.000719357	0.000780139	0.000836127
1.00000e-05	0.000784566	0.000816179	0.000844056	0.000877139	0.000915574
1.00000e-06	0.000823354	0.000835514	0.000857113	0.000887069	0.000923616
1.00000e-07	0.000827245	0.000837447	0.000858419	0.000888061	0.000924419
1.00000e-08	0.000827634	0.000837641	0.000858549	0.000888161	0.000924500
1.00000e-09	0.000827673	0.000837660	0.000858562	0.000888171	0.000924508

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	9.54393e-37	5.25027e-36	2.31133e-35	8.74840e-35	2.98735e-34
1.00000e+07	3.02045e-32	1.51423e-31	6.12679e-31	2.14467e-30	6.80367e-30
1.00000e+06	3.72148e-28	1.80044e-27	7.07574e-27	2.41591e-26	7.49633e-26
100000.	3.44117e-24	1.61641e-23	6.17769e-23	2.04978e-22	6.16833e-22
10000.0	1.87538e-20	7.72016e-20	2.65603e-19	8.02741e-19	2.21275e-18
1000.00	6.35645e-17	1.94306e-16	5.51596e-16	1.46258e-15	3.66637e-15
100.000	2.55751e-13	5.81773e-13	1.27203e-12	2.70025e-12	5.59306e-12
10.0000	2.60923e-10	4.69411e-10	8.18299e-10	1.40064e-09	2.37120e-09
1.00000	4.51664e-08	7.26075e-08	1.14462e-07	1.78576e-07	2.76939e-07
0.100000	3.22679e-06	4.72793e-06	6.76183e-06	9.51458e-06	1.32298e-05
0.0100000	7.03199e-05	9.13360e-05	0.000116764	0.000147719	0.000185451
0.00100000	0.000475052	0.000553037	0.000635251	0.000722758	0.000816382
0.000100000	0.000892013	0.000950375	0.00101296	0.00108104	0.00115553
1.00000e-05	0.000959303	0.00100870	0.00106436	0.00112689	0.00119680
1.00000e-06	0.000966070	0.00101455	0.00106950	0.00113146	0.00120092
1.00000e-07	0.000966747	0.00101513	0.00107001	0.00113192	0.00120133
1.00000e-08	0.000966814	0.00101519	0.00107007	0.00113197	0.00120137
1.00000e-09	0.000966821	0.00101520	0.00107007	0.00113197	0.00120137

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	9.51950e-34	2.90035e-33	8.59652e-33	2.50859e-32	7.26350e-32
1.00000e+07	2.02087e-29	5.75331e-29	1.59660e-28	4.37007e-28	1.18896e-27
1.00000e+06	2.18171e-25	6.09239e-25	1.65915e-24	4.45657e-24	1.18946e-23
100000.	1.73573e-21	4.66790e-21	1.21851e-20	3.12077e-20	7.89744e-20
10000.0	5.71887e-18	1.41441e-17	3.39808e-17	8.01649e-17	1.87097e-16
1000.00	8.80503e-15	2.04998e-14	4.67062e-14	1.04834e-13	2.32762e-13
100.000	1.13411e-11	2.25731e-11	4.42040e-11	8.53296e-11	1.62609e-10
10.0000	3.98672e-09	6.67264e-09	1.11334e-08	1.85324e-08	3.07806e-08
1.00000	4.27592e-07	6.57324e-07	1.00534e-06	1.52818e-06	2.30598e-06
0.100000	1.82213e-05	2.48898e-05	3.37430e-05	4.54188e-05	6.07107e-05
0.0100000	0.000231311	0.000286710	0.000353084	0.000431838	0.000524291
0.00100000	0.000916746	0.00102431	0.00113942	0.00126237	0.00139339
0.000100000	0.00123709	0.00132624	0.00142337	0.00152881	0.00164284
1.00000e-05	0.00127450	0.00136033	0.00145454	0.00155739	0.00166909
1.00000e-06	0.00127823	0.00136372	0.00145765	0.00156023	0.00167170
1.00000e-07	0.00127860	0.00136406	0.00145796	0.00156051	0.00167197
1.00000e-08	0.00127864	0.00136410	0.00145799	0.00156054	0.00167199
1.00000e-09	0.00127864	0.00136410	0.00145799	0.00156055	0.00167199

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.09617e-31	6.04205e-31	1.74023e-30	5.00485e-30	1.43498e-29
1.00000e+07	3.23040e-27	8.78521e-27	2.39294e-26	6.52489e-26	1.77861e-25
1.00000e+06	3.16806e-23	8.43709e-23	2.24747e-22	5.98362e-22	1.58975e-21
100000.	1.98309e-19	4.95201e-19	1.23069e-18	3.04374e-18	7.48639e-18
10000.0	4.34082e-16	1.00386e-15	2.31659e-15	5.33411e-15	1.22428e-14
1000.00	5.12175e-13	1.11708e-12	2.41251e-12	5.15067e-12	1.08509e-11
100.000	3.06228e-10	5.70301e-10	1.05070e-09	1.91527e-09	3.45389e-09
10.0000	5.09886e-08	8.41581e-08	1.38208e-07	2.25446e-07	3.64613e-07
1.00000	3.45037e-06	5.11414e-06	7.50267e-06	1.08872e-05	1.56199e-05
0.100000	8.05905e-05	0.000106229	0.000139003	0.000180501	0.000232497
0.0100000	0.000631613	0.000754772	0.000894477	0.00105114	0.00122488
0.00100000	0.00153273	0.00168056	0.00183705	0.00200233	0.00217648

0.000100000	0.00176572	0.00189770	0.00203896	0.00218965	0.00234988
1.00000e-05	0.00178987	0.00191992	0.00205941	0.00220847	0.00236718
1.00000e-06	0.00179228	0.00192213	0.00206145	0.00221035	0.00236891
1.00000e-07	0.00179252	0.00192235	0.00206164	0.00221053	0.00236907
1.00000e-08	0.00179254	0.00192238	0.00206166	0.00221055	0.00236909
1.00000e-09	0.00179255	0.00192238	0.00206167	0.00221055	0.00236909

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	4.09154e-29	1.15602e-28	3.22131e-28	8.80434e-28	2.34678e-27
1.00000e+07	4.83613e-25	1.30750e-24	3.49999e-24	9.22852e-24	2.38363e-23
1.00000e+06	4.20569e-21	1.10462e-20	2.86964e-20	7.34107e-20	1.84045e-19
100000.	1.82928e-17	4.43376e-17	1.06375e-16	2.51940e-16	5.87106e-16
10000.0	2.79644e-14	6.34309e-14	1.42513e-13	3.16229e-13	6.90830e-13
1000.00	2.25174e-11	4.59601e-11	9.21610e-11	1.81395e-10	3.50195e-10
100.000	6.16001e-09	1.08602e-08	1.89147e-08	3.25183e-08	5.51392e-08
10.0000	5.83621e-07	9.23097e-07	1.44080e-06	2.21694e-06	3.36041e-06
1.00000	2.21500e-05	3.10408e-05	4.29868e-05	5.88281e-05	7.95620e-05
0.100000	0.000296914	0.000375765	0.000471073	0.000584776	0.000718619
0.0100000	0.00141547	0.00162238	0.00184482	0.00208173	0.00233182
0.00100000	0.00235950	0.00255131	0.00275172	0.00296048	0.00317718
0.000100000	0.00251965	0.00269889	0.00288744	0.00308500	0.00329120
1.00000e-05	0.00253554	0.00271348	0.00290081	0.00309724	0.00330238
1.00000e-06	0.00253713	0.00271493	0.00290214	0.00309846	0.00330349
1.00000e-07	0.00253729	0.00271508	0.00290227	0.00309858	0.00330361
1.00000e-08	0.00253729	0.00271509	0.00290229	0.00309859	0.00330362
1.00000e-09	0.00253730	0.00271509	0.00290229	0.00309859	0.00330362

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	6.06878e-27	1.51625e-26	3.64934e-26	1.09530e-22	2.04254e-17
1.00000e+07	5.99954e-23	1.46509e-22	3.46007e-22	7.97228e-19	2.71638e-14
1.00000e+06	4.50104e-19	1.06953e-18	2.46177e-18	2.27043e-15	1.05815e-11
100000.	1.34137e-15	2.99424e-15	6.51044e-15	1.72651e-12	1.26692e-09
10000.0	1.48109e-12	3.10683e-12	6.35975e-12	4.91810e-10	7.91442e-08
1000.00	6.62731e-10	1.22875e-09	2.23070e-09	5.07245e-08	2.48925e-06
100.000	9.21318e-08	1.51564e-07	2.45272e-07	2.28090e-06	4.50698e-05
10.0000	5.01566e-06	7.37024e-06	1.06622e-05	4.95498e-05	0.000468694
1.00000	0.000106348	0.000140508	0.000183507	0.000505689	0.00238422
0.100000	0.000874054	0.00105214	0.00125344	0.00219194	0.00529537
0.0100000	0.00259365	0.00286567	0.00314621	0.00394612	0.00655534
0.00100000	0.00340135	0.00363234	0.00386944	0.00441041	0.00674392
0.000100000	0.00350550	0.00372730	0.00395583	0.00446354	0.00676293
1.00000e-05	0.00351571	0.00373659	0.00396429	0.00446886	0.00676483
1.00000e-06	0.00351672	0.00373752	0.00396513	0.00446939	0.00676501
1.00000e-07	0.00351683	0.00373761	0.00396521	0.00446943	0.00676504
1.00000e-08	0.00351684	0.00373762	0.00396522	0.00446944	0.00676504
1.00000e-09	0.00351684	0.00373762	0.00396522	0.00446944	0.00676504

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	5.79299e-13	1.93147e-10	3.10957e-09	2.25545e-08	1.31561e-07
1.00000e+07	5.45567e-11	3.26834e-09	4.39451e-08	3.38126e-07	1.48196e-06
1.00000e+06	3.04854e-09	6.49785e-08	4.17563e-07	1.85827e-06	6.90633e-06
100000.	8.71323e-08	9.34439e-07	4.66940e-06	1.67562e-05	5.42705e-05
10000.0	2.08775e-06	1.47769e-05	6.12097e-05	0.000179283	0.000417527
1000.00	3.21132e-05	0.000168717	0.000537470	0.00112582	0.00176234
100.000	0.000331177	0.00118294	0.00249037	0.00348644	0.00379237
10.0000	0.00194627	0.00415667	0.00560613	0.00567171	0.00493759
1.00000	0.00536124	0.00724349	0.00733331	0.00639371	0.00518013
0.100000	0.00768047	0.00831531	0.00768094	0.00648887	0.00520275
0.0100000	0.00819839	0.00846618	0.00771693	0.00649697	0.00520444
0.00100000	0.00825582	0.00848094	0.00772037	0.00649774	0.00520461
0.000100000	0.00826144	0.00848241	0.00772071	0.00649782	0.00520462
1.00000e-05	0.00826200	0.00848258	0.00772075	0.00649783	0.00520463
1.00000e-06	0.00826206	0.00848258	0.00772075	0.00649783	0.00520463
1.00000e-07	0.00826206	0.00848258	0.00772075	0.00649783	0.00520463
1.00000e-08	0.00826206	0.00848258	0.00772075	0.00649783	0.00520463
1.00000e-09	0.00826206	0.00848258	0.00772075	0.00649783	0.00520463

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	5.08637e-07	1.33701e-06	3.09509e-06	7.04046e-06	1.10666e-05
1.00000e+07	4.48585e-06	1.19128e-05	2.86772e-05	5.54814e-05	7.72787e-05
1.00000e+06	2.22504e-05	6.10921e-05	0.000128451	0.000196301	0.000228517
100000.	0.000143455	0.000292636	0.000449841	0.000529963	0.000517380
10000.0	0.000742348	0.00102504	0.00113603	0.00106344	0.000903670
1000.00	0.00213733	0.00214040	0.00187811	0.00152511	0.00119943
100.000	0.00346960	0.00286713	0.00224613	0.00172141	0.00131575
10.0000	0.00396468	0.00306193	0.00232543	0.00175913	0.00133691

1.00000	0.00403756	0.00308341	0.00233254	0.00176211	0.00133849
0.100000	0.00404267	0.00308456	0.00233282	0.00176219	0.00133851
0.0100000	0.00404303	0.00308463	0.00233284	0.00176219	0.00133851
0.00100000	0.00404306	0.00308464	0.00233284	0.00176219	0.00133851
0.000100000	0.00404307	0.00308464	0.00233284	0.00176219	0.00133851
1.00000e-05	0.00404307	0.00308464	0.00233284	0.00176219	0.00133851
1.00000e-06	0.00404307	0.00308464	0.00233284	0.00176219	0.00133851
1.00000e-07	0.00404307	0.00308464	0.00233284	0.00176219	0.00133851
1.00000e-08	0.00404307	0.00308464	0.00233284	0.00176219	0.00133851
1.00000e-09	0.00404307	0.00308464	0.00233284	0.00176219	0.00133851

Pa\K | 1500.00 1750.00 2000.00 2250.00 2500.00

1.00000e+08	1.11131e-05	0.000111070	0.000116942	0.000114096	0.000109870
1.00000e+07	8.22148e-05	0.000151540	0.000145563	0.000137625	0.000133336
1.00000e+06	0.000226713	0.000219268	0.000196060	0.000186216	0.000178534
100000.	0.000460002	0.000355349	0.000292358	0.000251829	0.000217239
10000.0	0.000740481	0.000509249	0.000370107	0.000285564	0.000230127
1000.00	0.000939998	0.000600200	0.000400934	0.000294400	0.000232473
100.000	0.00101432	0.000628651	0.000407759	0.000295807	0.000232752
10.0000	0.00102739	0.000633455	0.000408682	0.000295958	0.000232775
1.00000	0.00102834	0.000633919	0.000408767	0.000295969	0.000232776
0.100000	0.00102834	0.000633945	0.000408772	0.000295970	0.000232776
0.0100000	0.00102834	0.000633946	0.000408772	0.000295970	0.000232776
0.00100000	0.00102834	0.000633946	0.000408772	0.000295970	0.000232776
0.000100000	0.00102834	0.000633946	0.000408772	0.000295970	0.000232776
1.00000e-05	0.00102834	0.000633946	0.000408772	0.000295970	0.000232776
1.00000e-06	0.00102834	0.000633946	0.000408772	0.000295970	0.000232776
1.00000e-07	0.00102834	0.000633946	0.000408772	0.000295970	0.000232776
1.00000e-08	0.00102834	0.000633946	0.000408772	0.000295970	0.000232776
1.00000e-09	0.00102834	0.000633946	0.000408772	0.000295970	0.000232776

Pa\K | 2750.00 3000.00 3250.00 3500.00 3750.00

1.00000e+08	0.000106133	0.000102972	0.000100270	9.78438e-05	9.55286e-05
1.00000e+07	0.000130648	0.000127509	0.000123132	0.000117704	0.000111826
1.00000e+06	0.000167432	0.000154142	0.000140786	0.000128688	0.000118374
100000.	0.000187855	0.000164199	0.000145552	0.000130903	0.000119393
10000.0	0.000192527	0.000165886	0.000146171	0.000131134	0.000119479
1000.00	0.000193156	0.000166063	0.000146223	0.000131149	0.000119482
100.000	0.000193214	0.000166075	0.000146225	0.000131148	0.000119481
10.0000	0.000193217	0.000166075	0.000146225	0.000131148	0.000119481
1.00000	0.000193217	0.000166075	0.000146224	0.000131148	0.000119481
0.100000	0.000193216	0.000166074	0.000146224	0.000131148	0.000119481
0.0100000	0.000193216	0.000166074	0.000146224	0.000131148	0.000119481
0.00100000	0.000193216	0.000166074	0.000146224	0.000131148	0.000119481
0.000100000	0.000193216	0.000166074	0.000146224	0.000131148	0.000119481
1.00000e-05	0.000193216	0.000166074	0.000146224	0.000131148	0.000119481
1.00000e-06	0.000193216	0.000166074	0.000146224	0.000131148	0.000119481
1.00000e-07	0.000193216	0.000166074	0.000146224	0.000131148	0.000119481
1.00000e-08	0.000193216	0.000166074	0.000146224	0.000131148	0.000119481
1.00000e-09	0.000193216	0.000166074	0.000146224	0.000131148	0.000119481

Pa\K | 4000.00

1.00000e+08	9.32355e-05
1.00000e+07	0.000106084
1.00000e+06	0.000109893
100000.	0.000110359
10000.0	0.000110389
1000.00	0.000110389
100.000	0.000110388
10.0000	0.000110388
1.00000	0.000110388
0.100000	0.000110388
0.0100000	0.000110388
0.00100000	0.000110388
0.000100000	0.000110388
1.00000e-05	0.000110388
1.00000e-06	0.000110388
1.00000e-07	0.000110388
1.00000e-08	0.000110388
1.00000e-09	0.000110388

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08	6.02472e-21	4.98290e-20	1.66918e-19	3.95275e-19	7.79291e-19
1.00000e+07	6.16472e-18	5.27652e-17	1.82585e-16	4.45495e-16	9.02899e-16

1.00000e+06	8.08441e-15	8.05850e-14	3.03083e-13	7.76350e-13	1.61913e-12
100000.	1.47915e-11	1.31454e-10	4.41392e-10	1.02948e-09	1.98570e-09
10000.0	1.38597e-08	9.40523e-08	2.71359e-07	5.68950e-07	1.00979e-06
1000.00	5.37325e-06	2.68646e-05	6.34720e-05	0.000113961	0.000177675
100.000	0.000601371	0.00175409	0.00289544	0.00391306	0.00478987
10.0000	0.00700910	0.00791632	0.00760391	0.00707504	0.00651207
1.00000	0.00400580	0.00166245	0.000788641	0.000411511	0.000230741
0.100000	2.47191e-05	3.04950e-06	1.34043e-06	8.26738e-07	5.80342e-07
0.0100000	1.46296e-07	3.38833e-08	1.36978e-08	7.06109e-09	4.18162e-09
0.00100000	5.13172e-10	5.98533e-11	1.66737e-11	6.63457e-12	3.19964e-12
0.000100000	2.05336e-13	1.12196e-14	1.89404e-15	5.14718e-16	1.82759e-16
1.00000e-05	5.29486e-18	1.53553e-19	2.11225e-20	5.35273e-21	1.87912e-21
1.00000e-06	6.79388e-23	3.20582e-24	6.51496e-25	2.29631e-25	1.08155e-25
1.00000e-07	1.18607e-26	2.04980e-27	8.70906e-28	5.02612e-28	3.39830e-28
1.00000e-08	9.24580e-29	3.07155e-29	1.74724e-29	1.21095e-29	9.35348e-30
1.00000e-09	3.80231e-30	1.73133e-30	1.13305e-30	8.52704e-31	6.94619e-31

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.37221e-18	2.23991e-18	3.46674e-18	5.16377e-18	7.48027e-18
1.00000e+07	1.63127e-15	2.72778e-15	4.31927e-15	6.57515e-15	9.72591e-15
1.00000e+06	2.97255e-12	5.00848e-12	7.94325e-12	1.20572e-11	1.77215e-11
100000.	3.41005e-09	5.41888e-09	8.15418e-09	1.17955e-08	1.65752e-08
10000.0	1.61782e-06	2.41963e-06	3.44667e-06	4.73778e-06	6.34177e-06
1000.00	0.000254193	0.000343274	0.000444895	0.000559271	0.000686841
100.000	0.00553100	0.00614771	0.00665290	0.00705958	0.00737995
10.0000	0.00595966	0.00543073	0.00492954	0.00445773	0.00401598
1.00000	0.000137083	8.55160e-05	5.56908e-05	3.77195e-05	2.65061e-05
0.100000	4.36547e-07	3.43302e-07	2.78628e-07	2.31574e-07	1.96074e-07
0.0100000	2.70959e-09	1.86972e-09	1.35105e-09	1.01088e-09	7.76966e-10
0.00100000	1.73810e-12	1.02282e-12	6.37094e-13	4.13887e-13	2.77687e-13
0.000100000	7.71270e-17	3.67406e-17	1.91448e-17	1.06912e-17	6.30965e-18
1.00000e-05	8.08107e-22	3.99218e-22	2.18196e-22	1.28875e-22	8.10322e-23
1.00000e-06	6.10412e-26	3.90935e-26	2.75910e-26	2.11311e-26	1.74440e-26
1.00000e-07	2.54443e-28	2.05578e-28	1.77106e-28	1.61973e-28	1.57266e-28
1.00000e-08	7.76843e-30	6.83868e-30	6.34313e-30	6.19444e-30	6.38004e-30
1.00000e-09	6.00762e-31	5.43191e-31	5.16223e-31	5.12971e-31	5.38823e-31

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.06195e-17	1.48618e-17	2.05965e-17	2.83697e-17	3.89523e-17
1.00000e+07	1.40894e-14	2.01087e-14	2.84073e-14	3.98700e-14	5.57614e-14
1.00000e+06	2.54355e-11	3.58777e-11	4.99786e-11	6.90227e-11	9.47943e-11
100000.	2.27974e-08	3.08645e-08	4.13112e-08	5.48521e-08	7.24450e-08
10000.0	8.32048e-06	1.07522e-05	1.37359e-05	1.73968e-05	2.18921e-05
1000.00	0.000828229	0.000984190	0.00115555	0.00134312	0.00154764
100.000	0.00762519	0.00780510	0.00792822	0.00800186	0.00803219
10.0000	0.00360442	0.00322284	0.00287073	0.00254736	0.00225180
1.00000	1.92929e-05	1.45237e-05	1.12900e-05	9.04427e-06	7.44838e-06
0.100000	1.68503e-07	1.46574e-07	1.28777e-07	1.14081e-07	1.01759e-07
0.0100000	6.09861e-10	4.86681e-10	3.93489e-10	3.21445e-10	2.64743e-10
0.00100000	1.91111e-13	1.34280e-13	9.60049e-14	6.96832e-14	5.12687e-14
0.000100000	3.89723e-18	2.50206e-18	1.66169e-18	1.13800e-18	8.02221e-19
1.00000e-05	5.37315e-23	3.73826e-23	2.72514e-23	2.08664e-23	1.68928e-23
1.00000e-06	1.55025e-26	1.48588e-26	1.53957e-26	1.72611e-26	2.09078e-26
1.00000e-07	1.62509e-28	1.79154e-28	2.11110e-28	2.65806e-28	3.56827e-28
1.00000e-08	6.96655e-30	8.09143e-30	1.00038e-29	1.31785e-29	1.84504e-29
1.00000e-09	5.95926e-31	7.05710e-31	8.80012e-31	1.17380e-30	1.64883e-30

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	5.34407e-17	7.34027e-17	1.01092e-16	1.39766e-16	1.94152e-16
1.00000e+07	7.79003e-14	1.08917e-13	1.52633e-13	2.14627e-13	3.03061e-13
1.00000e+06	1.29782e-10	1.77472e-10	2.42760e-10	3.32541e-10	4.56541e-10
100000.	9.53776e-08	1.25384e-07	1.64805e-07	2.16799e-07	2.85623e-07
10000.0	2.74196e-05	3.42257e-05	4.26170e-05	5.29720e-05	6.57547e-05
1000.00	0.00176967	0.00200953	0.00226719	0.00254221	0.00283369
100.000	0.00802440	0.00798281	0.00791101	0.00781201	0.00768829
10.0000	0.00198297	0.00173968	0.00152063	0.00132444	0.00114962
1.00000	6.28843e-06	5.42641e-06	4.77157e-06	4.26326e-06	3.86031e-06
0.100000	9.12888e-08	8.22859e-08	7.44617e-08	6.75965e-08	6.15211e-08
0.0100000	2.19454e-10	1.82850e-10	1.52983e-10	1.28437e-10	1.08160e-10
0.00100000	3.82014e-14	2.88182e-14	2.20144e-14	1.70422e-14	1.33878e-14
0.000100000	5.81764e-19	4.34284e-19	3.34332e-19	2.66277e-19	2.20403e-19
1.00000e-05	1.46176e-23	1.37164e-23	1.41716e-23	1.63087e-23	2.09813e-23
1.00000e-06	2.72571e-26	3.80592e-26	5.66527e-26	8.95756e-26	1.50072e-25
1.00000e-07	5.09437e-28	7.70870e-28	1.23421e-27	2.08744e-27	3.72812e-27
1.00000e-08	2.73660e-29	4.29469e-29	7.10242e-29	1.23990e-28	2.28434e-28
1.00000e-09	2.46481e-30	3.89178e-30	6.48456e-30	1.13914e-29	2.10218e-29

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.71138e-16	3.80793e-16	5.37891e-16	7.64153e-16	1.09158e-15
1.00000e+07	4.29923e-13	6.12850e-13	8.77842e-13	1.26327e-12	1.82578e-12
1.00000e+06	6.28503e-10	8.67859e-10	1.20211e-09	1.67016e-09	2.32708e-09
100000.	3.77025e-07	4.98741e-07	6.61173e-07	8.78274e-07	1.16870e-06
10000.0	8.15289e-05	0.000100973	0.000124895	0.000154246	0.000190128
1000.00	0.00314022	0.00345990	0.00379031	0.00412862	0.00447162
100.000	0.00754196	0.00737481	0.00718845	0.00698438	0.00676404
10.0000	0.000994684	0.000858101	0.000738316	0.000633802	0.000543071
1.00000	3.53434e-06	3.26555e-06	3.03988e-06	2.84728e-06	2.68043e-06
0.100000	5.61037e-08	5.12408e-08	4.68511e-08	4.28703e-08	3.92481e-08
0.0100000	9.13486e-11	7.73868e-11	6.57886e-11	5.61680e-11	4.82151e-11
0.00100000	1.06937e-14	8.70866e-15	7.25557e-15	6.20975e-15	5.48489e-15
0.000100000	1.90738e-19	1.73882e-19	1.68502e-19	1.75431e-19	1.98594e-19
1.00000e-05	3.00257e-23	4.72932e-23	8.09975e-23	1.49171e-22	2.92661e-22
1.00000e-06	2.66013e-25	4.98332e-25	9.85354e-25	2.05286e-24	4.49436e-24
1.00000e-07	7.02860e-27	1.39904e-26	2.93650e-26	6.48907e-26	1.50566e-25
1.00000e-08	4.42809e-28	9.06296e-28	1.95239e-27	4.43773e-27	1.05458e-26
1.00000e-09	4.08595e-29	8.38957e-29	1.85146e-28	4.21104e-28	1.00230e-27

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	1.56732e-15	2.26083e-15	3.27413e-15	6.04006e-14	5.84481e-12
1.00000e+07	2.64897e-12	3.85591e-12	5.62722e-12	1.00770e-10	8.09413e-09
1.00000e+06	3.25066e-09	4.55065e-09	6.38135e-09	7.54389e-08	2.84883e-06
100000.	1.55732e-06	2.07711e-06	2.77161e-06	1.91555e-05	0.000229169
10000.0	0.000233799	0.000286672	0.000350300	0.00103786	0.00320220
1000.00	0.00481581	0.00515749	0.00549290	0.00651480	0.00642148
100.000	0.00652894	0.00628063	0.00602080	0.00427201	0.00198133
10.0000	0.000464683	0.000397276	0.000339569	0.000197510	7.70508e-05
1.00000	2.53392e-06	2.40376e-06	2.28695e-06	2.67540e-06	2.87846e-06
0.100000	3.59449e-08	3.29299e-08	3.01798e-08	5.40551e-08	9.44800e-08
0.0100000	4.16800e-11	3.63621e-11	3.21019e-11	2.46861e-10	2.11685e-09
0.00100000	5.02406e-15	4.79449e-15	4.78593e-15	4.80159e-13	4.85648e-11
0.000100000	2.47447e-19	3.42701e-19	5.29432e-19	3.39488e-15	1.98221e-12
1.00000e-05	6.06867e-22	1.32082e-21	2.99792e-21	9.04177e-17	1.06335e-13
1.00000e-06	1.03048e-23	2.46406e-23	6.11539e-23	3.82610e-18	6.83638e-15
1.00000e-07	3.62886e-25	9.23608e-25	2.41963e-24	2.49725e-19	5.53222e-16
1.00000e-08	2.61645e-26	6.76711e-26	1.80927e-25	2.28255e-20	5.14492e-17
1.00000e-09	2.50097e-27	6.44910e-27	1.72491e-26	2.60821e-21	5.54411e-18

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	2.28297e-09	9.18425e-08	1.22687e-06	1.14540e-05	7.21545e-05
1.00000e+07	6.55251e-07	7.30372e-06	4.56445e-05	0.000192553	0.000495888
1.00000e+06	4.72815e-05	0.000169501	0.000455462	0.000898657	0.00117153
100000.	0.000984890	0.00159645	0.00176969	0.00157322	0.00117241
10000.0	0.00445721	0.00325913	0.00172156	0.000896036	0.000563591
1000.00	0.00405116	0.00195887	0.000919948	0.000516685	0.000367380
100.000	0.000935683	0.000637482	0.000443513	0.000254049	0.000142755
10.0000	8.72380e-05	0.000137900	0.000113298	5.59338e-05	2.53788e-05
1.00000	8.77238e-06	1.92796e-05	1.52398e-05	6.94020e-06	2.95192e-06
0.100000	6.41950e-07	1.66227e-06	1.39929e-06	6.72005e-07	2.94302e-07
0.0100000	3.33970e-08	1.18218e-07	1.16586e-07	6.07983e-08	2.75994e-08
0.00100000	1.89122e-09	8.80642e-09	9.70219e-09	5.34582e-09	2.48953e-09
0.000100000	1.26621e-10	6.86579e-10	8.05333e-10	4.59134e-10	2.17312e-10
1.00000e-05	9.01610e-12	5.24845e-11	6.28895e-11	3.62691e-11	1.72366e-11
1.00000e-06	6.80584e-13	4.07734e-12	4.91546e-12	2.84322e-12	1.35467e-12
1.00000e-07	5.94171e-14	3.61603e-13	4.37967e-13	2.53670e-13	1.21047e-13
1.00000e-08	5.76151e-15	3.55323e-14	4.25765e-14	2.48486e-14	1.18440e-14
1.00000e-09	6.38664e-16	3.63363e-15	4.17144e-15	2.61063e-15	1.20222e-15

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	0.000188105	0.000231463	0.000209973	0.000173328	0.000139756
1.00000e+07	0.000694700	0.000679824	0.000599234	0.000543149	0.000520773
1.00000e+06	0.00109033	0.000888132	0.000734698	0.000634274	0.000584308
100000.	0.000826653	0.000629184	0.000519948	0.000439497	0.000392570
10000.0	0.000454576	0.000400320	0.000334056	0.000264344	0.000216659
1000.00	0.000282149	0.000203764	0.000136492	9.06242e-05	6.42639e-05
100.000	8.24913e-05	4.69164e-05	2.66354e-05	1.58483e-05	1.02331e-05
10.0000	1.24336e-05	6.38296e-06	3.42263e-06	1.95388e-06	1.19944e-06
1.00000	1.39823e-06	7.07562e-07	3.76238e-07	2.11519e-07	1.26042e-07
0.100000	1.41349e-07	7.20006e-08	3.83253e-08	2.13825e-08	1.25058e-08
0.0100000	1.34550e-08	6.90601e-09	3.68657e-09	2.04811e-09	1.18247e-09
0.00100000	1.22931e-09	6.36075e-10	3.40801e-10	1.88754e-10	1.07831e-10
0.000100000	1.08169e-10	5.61996e-11	3.01081e-11	1.65822e-11	9.37042e-12
1.00000e-05	8.58821e-12	4.45987e-12	2.38400e-12	1.30714e-12	7.33916e-13
1.00000e-06	6.75661e-13	3.50793e-13	1.87254e-13	1.02420e-13	5.73228e-14

1.00000e-07	6.04238e-14	3.13737e-14	1.67273e-14	9.13175e-15	5.10592e-15
1.00000e-08	5.92013e-15	3.08441e-15	1.64331e-15	8.95882e-16	4.99476e-16
1.00000e-09	5.88769e-16	3.06598e-16	1.62246e-16	8.85679e-17	6.42732e-21

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.000127872	2.08705e-05	3.41282e-05	4.37841e-05	4.80931e-05
1.00000e+07	0.000548004	5.50773e-05	6.51823e-05	5.66261e-05	5.00650e-05
1.00000e+06	0.000605664	0.000164419	0.000140460	8.04241e-05	4.98720e-05
100000.	0.000391659	0.000189951	0.000128526	5.25833e-05	2.29673e-05
10000.0	0.000194369	8.63063e-05	4.25511e-05	1.25154e-05	4.11695e-06
1000.00	4.99103e-05	1.63275e-05	6.38638e-06	1.57002e-06	4.56307e-07
100.000	7.17276e-06	1.83017e-06	6.70749e-07	1.57810e-07	4.45297e-08
10.0000	7.85633e-07	1.64992e-07	6.31047e-08	1.51116e-08	4.26810e-09
1.00000	7.89246e-08	1.42667e-08	5.85657e-09	1.44528e-09	4.10740e-10
0.100000	7.60361e-09	1.25095e-09	5.48077e-10	1.39032e-10	3.97472e-11
0.0100000	7.04212e-10	1.11170e-10	5.17232e-11	1.34417e-11	3.86282e-12
0.00100000	6.31718e-11	9.93874e-12	6.91188e-12	1.30443e-12	3.76560e-13
0.000100000	5.41214e-12	8.65179e-13	4.64696e-13	1.26316e-13	3.66321e-14
1.00000e-05	4.20904e-13	7.58768e-14	4.43474e-14	1.23018e-14	3.58194e-15
1.00000e-06	3.27860e-14	6.73093e-15	4.26278e-15	1.20322e-15	3.51520e-16
1.00000e-07	2.91794e-15	6.30454e-16	4.18040e-16	1.19081e-16	3.48571e-17
1.00000e-08	2.85821e-16	6.23960e-17	4.16762e-17	1.18901e-17	3.48164e-18
1.00000e-09	7.36674e-20	4.92968e-18	3.91220e-18	1.14718e-18	3.37769e-19

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	4.82532e-05	4.62793e-05	4.31233e-05	3.93071e-05	3.52032e-05
1.00000e+07	4.24284e-05	3.43498e-05	2.69052e-05	2.06207e-05	1.55985e-05
1.00000e+06	3.15844e-05	1.97134e-05	1.21419e-05	7.44686e-06	4.58909e-06
100000.	1.06385e-05	5.07341e-06	2.49421e-06	1.27233e-06	6.76413e-07
10000.0	1.54818e-06	6.38282e-07	2.84164e-07	1.35559e-07	6.88439e-08
1000.00	1.59625e-07	6.31653e-08	2.74460e-08	1.28822e-08	6.45719e-09
100.000	1.53294e-08	6.00766e-09	2.59133e-09	1.20787e-09	6.00832e-10
10.0000	1.46509e-09	5.71864e-10	2.45527e-10	1.13866e-10	5.63285e-11
1.00000	1.40859e-10	5.48014e-11	2.34311e-11	1.08170e-11	5.32547e-12
0.100000	1.36182e-11	5.28145e-12	2.24905e-12	1.03371e-12	5.06596e-13
0.0100000	1.32219e-12	5.11193e-13	2.16841e-13	9.92411e-14	4.84213e-14
0.00100000	1.28739e-13	4.96161e-14	2.09622e-14	9.55160e-15	4.63901e-15
0.000100000	1.25039e-14	4.80065e-15	2.01858e-15	9.15037e-16	4.42040e-16
1.00000e-05	1.22121e-15	4.67450e-16	1.95812e-16	8.83974e-17	4.25212e-17
1.00000e-06	1.19715e-16	4.57009e-17	1.90795e-17	8.58146e-18	4.11207e-18
1.00000e-07	1.18693e-17	4.52733e-18	1.88808e-18	8.48251e-19	4.05972e-19
1.00000e-08	1.18546e-18	4.52083e-19	1.88492e-19	8.46672e-20	4.05299e-20
1.00000e-09	1.14791e-19	4.35750e-20	1.80613e-20	8.05880e-21	3.82917e-21

Pa\K	4000.00
1.00000e+08	3.10938e-05
1.00000e+07	1.17261e-05
1.00000e+06	2.86327e-06
100000.	3.75575e-07
10000.0	3.70109e-08
1000.00	3.42678e-09
100.000	3.15955e-10
10.0000	2.94420e-11
1.00000	2.76977e-12
0.100000	2.62253e-13
0.0100000	2.49541e-14
0.00100000	2.37954e-15
0.000100000	2.25517e-16
1.00000e-05	2.15998e-17
1.00000e-06	2.08074e-18
1.00000e-07	2.05186e-19
1.00000e-08	2.04789e-20
1.00000e-09	1.92083e-21

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	2.66617e-13	1.08975e-12	2.43806e-12	4.32758e-12	6.79453e-12
1.00000e+07	2.66492e-11	1.08872e-10	2.43462e-10	4.31947e-10	6.77868e-10
1.00000e+06	2.65243e-09	1.07848e-08	2.40072e-08	4.24021e-08	6.62460e-08
100000.	2.53436e-07	9.86870e-07	2.11225e-06	3.59745e-06	5.43143e-06
10000.0	1.79249e-05	5.70066e-05	0.000107088	0.000165693	0.000231619
1000.00	0.000585682	0.00134955	0.00204600	0.00268719	0.00328536
100.000	0.00530849	0.00728646	0.00762441	0.00725538	0.00658624
10.0000	0.00309992	0.00685353	0.00205072	7.87260e-05	3.70733e-05
1.00000	5.79988e-06	1.79974e-06	8.05333e-07	4.08230e-07	2.25334e-07

0.100000	2.32735e-08	2.81793e-09	1.14869e-09	6.63752e-10	4.43806e-10
0.0100000	9.52338e-11	1.95702e-11	7.45633e-12	3.70029e-12	2.13282e-12
0.00100000	2.38651e-13	2.65448e-14	7.42383e-15	3.02285e-15	1.50531e-15
0.000100000	1.19305e-16	9.62900e-18	2.16172e-18	7.30669e-19	3.09055e-19
1.00000e-05	1.71457e-20	9.51212e-22	1.89016e-22	6.18098e-23	2.63299e-23
1.00000e-06	1.93838e-24	1.76907e-25	5.09945e-26	2.24570e-26	1.23077e-26
1.00000e-07	2.47288e-27	7.08089e-28	3.94314e-28	2.69542e-28	2.03033e-28
1.00000e-08	9.63424e-29	4.54782e-29	2.97487e-29	2.19611e-29	1.72963e-29
1.00000e-09	8.96794e-30	4.39757e-30	2.90960e-30	2.15981e-30	1.70661e-30

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	9.88560e-12	1.36598e-11	1.81950e-11	2.35931e-11	2.99889e-11
1.00000e+07	9.85795e-10	1.36152e-09	1.81266e-09	2.34926e-09	2.98452e-09
1.00000e+06	9.59069e-08	1.31859e-07	1.74735e-07	2.25376e-07	2.84893e-07
100000.	7.61191e-06	1.01444e-05	1.30439e-05	1.63375e-05	2.00644e-05
10000.0	0.000304010	0.000382249	0.000465986	0.000555128	0.000649821
1000.00	0.00384557	0.00436950	0.00485771	0.00531038	0.00572752
100.000	0.00581312	0.00503493	0.00430137	0.00363576	0.00304678
10.0000	2.07516e-05	1.33706e-05	9.57842e-06	7.38727e-06	5.97964e-06
1.00000	1.32936e-07	8.28995e-08	5.42580e-08	3.70920e-08	2.63918e-08
0.100000	3.21728e-10	2.45754e-10	1.94798e-10	1.58744e-10	1.32178e-10
0.0100000	1.35417e-12	9.19787e-13	6.56382e-13	4.86243e-13	3.70758e-13
0.00100000	8.48193e-16	5.18891e-16	3.36297e-16	2.27327e-16	1.58608e-16
0.000100000	1.50805e-19	8.12607e-20	4.70886e-20	2.88395e-20	1.84463e-20
1.00000e-05	1.32095e-23	7.40244e-24	4.49037e-24	2.88986e-24	1.94652e-24
1.00000e-06	7.70294e-27	5.26574e-27	3.83010e-27	2.91521e-27	2.29608e-27
1.00000e-07	1.61836e-28	1.33829e-28	1.13516e-28	9.80616e-29	8.58673e-29
1.00000e-08	1.41917e-29	1.19761e-29	1.03114e-29	9.01063e-30	7.96231e-30
1.00000e-09	1.40333e-30	1.18608e-30	1.02242e-30	8.94251e-31	7.90793e-31

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	3.75559e-11	4.65162e-11	5.71524e-11	6.98221e-11	8.49778e-11
1.00000e+07	3.73549e-09	4.62395e-09	5.67757e-09	6.93135e-09	8.42944e-09
1.00000e+06	3.54714e-07	4.36654e-07	5.33000e-07	6.46604e-07	7.81022e-07
100000.	2.42789e-05	2.90504e-05	3.44663e-05	4.06341e-05	4.76844e-05
10000.0	0.000750420	0.000857454	0.000971604	0.00109367	0.00122458
1000.00	0.00610877	0.00645336	0.00675995	0.00702675	0.00725157
100.000	0.00253493	0.00209620	0.00172426	0.00141177	0.00115124
10.0000	4.98969e-06	4.24167e-06	3.64561e-06	3.15276e-06	2.73511e-06
1.00000	1.94877e-08	1.48923e-08	1.17444e-08	9.52892e-09	7.92910e-09
0.100000	1.11961e-10	9.61659e-11	8.35490e-11	7.32784e-11	6.47795e-11
0.0100000	2.89170e-13	2.29605e-13	1.84914e-13	1.50612e-13	1.23776e-13
0.00100000	1.13401e-16	8.26608e-17	6.12026e-17	4.59042e-17	3.48083e-17
0.000100000	1.22172e-20	8.32624e-21	5.81142e-21	4.13893e-21	2.99938e-21
1.00000e-05	1.35922e-24	9.77171e-25	7.19571e-25	5.40642e-25	4.13214e-25
1.00000e-06	1.85688e-27	1.53336e-27	1.28763e-27	1.09623e-27	9.44003e-28
1.00000e-07	7.59701e-29	6.77574e-29	6.08220e-29	5.48826e-29	4.97380e-29
1.00000e-08	7.09681e-30	6.36844e-30	5.74606e-30	5.20769e-30	4.73735e-30
1.00000e-09	7.05260e-31	6.33197e-31	5.71561e-31	5.18202e-31	4.71551e-31

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.03190e-10	1.25181e-10	1.51860e-10	1.84375e-10	2.24174e-10
1.00000e+07	1.02275e-08	1.23956e-08	1.50220e-08	1.82177e-08	2.21221e-08
1.00000e+06	9.40660e-07	1.13098e-06	1.35870e-06	1.63212e-06	1.96140e-06
100000.	5.57746e-05	6.50932e-05	7.58637e-05	8.83502e-05	0.000102863
10000.0	0.00136534	0.00151699	0.00168069	0.00185752	0.00204856
1000.00	0.00743196	0.00756543	0.00764975	0.00768315	0.00766455
100.000	0.000935484	0.000757832	0.000612312	0.000493660	0.000397311
10.0000	2.37569e-06	2.06351e-06	1.79106e-06	1.55284e-06	1.34456e-06
1.00000	6.74501e-09	5.84770e-09	5.15220e-09	4.60150e-09	4.15666e-09
0.100000	5.76445e-11	5.15774e-11	4.63592e-11	4.18250e-11	3.78488e-11
0.0100000	1.02449e-13	8.52811e-14	7.13155e-14	5.98621e-14	5.04106e-14
0.00100000	2.66457e-17	2.05703e-17	1.60039e-17	1.25437e-17	9.90405e-18
0.000100000	2.20666e-21	1.64522e-21	1.24133e-21	9.46805e-22	7.29487e-22
1.00000e-05	3.20518e-25	2.51859e-25	2.00214e-25	1.60867e-25	1.30593e-25
1.00000e-06	8.20797e-28	7.19642e-28	6.35636e-28	5.65301e-28	5.06210e-28
1.00000e-07	4.52408e-29	4.12801e-29	3.77707e-29	3.46469e-29	3.18572e-29
1.00000e-08	4.32309e-30	3.95580e-30	3.62837e-30	3.33516e-30	3.07165e-30
1.00000e-09	4.30437e-31	3.93964e-31	3.61431e-31	3.32283e-31	3.06072e-31

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.73083e-10	3.33407e-10	4.08046e-10	5.00661e-10	6.15856e-10
1.00000e+07	2.69105e-08	3.28030e-08	4.00757e-08	4.90746e-08	6.02331e-08
1.00000e+06	2.35902e-06	2.84018e-06	3.42348e-06	4.13144e-06	4.99141e-06
100000.	0.000119762	0.000139463	0.000162449	0.000189262	0.000220521
10000.0	0.00225476	0.00247692	0.00271561	0.00297104	0.00324303

1000.00	0.00759381	0.00747185	0.00730076	0.00708375	0.00682513
100.000	0.000319360	0.000256499	0.000205949	0.000165401	0.000132941
10.0000	1.16273e-06	1.00436e-06	8.66813e-07	7.47744e-07	6.45016e-07
1.00000	3.79061e-09	3.48422e-09	3.22379e-09	2.99930e-09	2.80336e-09
0.100000	3.43335e-11	3.12032e-11	2.83984e-11	2.58724e-11	2.35882e-11
0.0100000	4.25763e-14	3.60639e-14	3.06432e-14	2.61317e-14	2.23837e-14
0.00100000	7.87970e-18	6.32118e-18	5.11881e-18	4.19155e-18	3.47935e-18
0.000100000	5.67518e-22	4.45832e-22	3.53926e-22	2.84491e-22	2.32560e-22
1.00000e-05	1.07174e-25	8.91176e-26	7.55241e-26	6.61107e-26	6.14673e-26
1.00000e-06	4.56813e-28	4.16479e-28	3.85854e-28	3.67824e-28	3.69811e-28
1.00000e-07	2.93626e-29	2.71359e-29	2.51651e-29	2.34610e-29	2.20795e-29
1.00000e-08	2.83414e-30	2.61966e-30	2.42576e-30	2.25063e-30	2.09312e-30
1.00000e-09	2.82431e-31	2.61056e-31	2.41692e-31	2.24126e-31	2.08180e-31

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	7.59425e-10	9.38644e-10	1.16262e-09	5.43530e-09	4.63315e-08
1.00000e+07	7.40923e-08	9.13277e-08	1.12778e-07	5.07159e-07	3.88845e-06
1.00000e+06	6.03640e-06	7.30616e-06	8.84829e-06	3.29996e-05	0.000179726
100000.	0.000256915	0.000299211	0.000348247	0.000920189	0.00275995
10000.0	0.00353092	0.00383346	0.00414881	0.00634575	0.00749078
1000.00	0.00653010	0.00620464	0.00585512	0.00417625	0.00134850
100.000	0.000106998	8.62881e-05	6.97678e-05	4.55207e-05	8.31682e-06
10.0000	5.56689e-07	4.81000e-07	4.16348e-07	3.08808e-07	1.43124e-07
1.00000	2.63043e-09	2.47626e-09	2.33761e-09	4.07875e-09	3.25320e-09
0.100000	1.15166e-11	1.96351e-11	1.79258e-11	5.24400e-11	5.44302e-11
0.0100000	1.92818e-14	1.67311e-14	1.46556e-14	2.44564e-13	6.40205e-13
0.00100000	2.93807e-18	2.53578e-18	2.25071e-18	3.92080e-16	7.51116e-15
0.000100000	1.95105e-22	1.71100e-22	1.62274e-22	6.65798e-19	1.22392e-16
1.00000e-05	6.37718e-26	7.85128e-26	1.18521e-25	4.37135e-21	1.24225e-18
1.00000e-06	4.09068e-28	5.24980e-28	8.07792e-28	8.39205e-23	1.14690e-20
1.00000e-07	2.11710e-29	2.10971e-29	2.27034e-29	5.34642e-24	1.15552e-22
1.00000e-08	1.95331e-30	1.83350e-30	1.74103e-30	5.04457e-25	1.41776e-24
1.00000e-09	1.93709e-31	1.80611e-31	1.68847e-31	5.01370e-26	4.06730e-26

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	4.07864e-07	3.53908e-06	2.70755e-05	0.000134278	0.000404676
1.00000e+07	2.73017e-05	0.000152701	0.000597843	0.00141238	0.00198491
1.00000e+06	0.000776024	0.00226812	0.00419608	0.00483035	0.00374149
100000.	0.00554298	0.00688239	0.00555237	0.00335366	0.00169742
10000.0	0.00528124	0.00246227	0.000910730	0.000351154	0.000163407
1000.00	0.000320528	7.19149e-05	2.11576e-05	1.16699e-05	1.06513e-05
100.000	2.67802e-06	1.57976e-06	1.10733e-06	8.46069e-07	8.91190e-07
10.0000	1.21160e-07	1.34163e-07	1.01852e-07	6.07275e-08	5.31398e-08
1.00000	5.55141e-09	9.72709e-09	7.49012e-09	3.75378e-09	2.43969e-09
0.100000	2.23005e-10	4.97636e-10	4.16009e-10	2.10162e-10	1.07435e-10
0.0100000	6.43160e-12	2.00312e-11	2.00061e-11	1.10732e-11	5.47620e-12
0.00100000	1.84556e-13	7.62728e-13	8.62634e-13	5.10364e-13	2.58169e-13
0.000100000	4.27149e-15	1.97616e-14	2.36783e-14	1.47423e-14	7.64888e-15
1.00000e-05	4.57975e-17	2.15213e-16	2.63245e-16	1.69644e-16	9.06201e-17
1.00000e-06	4.15450e-19	1.92765e-18	2.34704e-18	1.50302e-18	8.00644e-19
1.00000e-07	4.06468e-21	1.87599e-20	2.27488e-20	1.44834e-20	7.69046e-21
1.00000e-08	4.06697e-23	1.87368e-22	2.25650e-22	1.44715e-22	7.93974e-23
1.00000e-09	4.34707e-25	1.92186e-24	2.25350e-24	1.60595e-24	1.11924e-24

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	0.000612601	0.000592778	0.000468047	0.000358344	0.000306489
1.00000e+07	0.00159974	0.000965461	0.000593342	0.000445254	0.000426085
1.00000e+06	0.00218005	0.00113804	0.000651236	0.000462792	0.000410226
100000.	0.000845985	0.000453388	0.000277288	0.000197240	0.000161240
10000.0	0.000106495	7.71900e-05	5.44900e-05	3.95119e-05	3.09438e-05
1000.00	1.15151e-05	9.79017e-06	6.90995e-06	4.89051e-06	3.75681e-06
100.000	1.00671e-06	8.24398e-07	5.58914e-07	3.87431e-07	2.96787e-07
10.0000	5.71717e-08	4.73489e-08	3.28703e-08	2.30136e-08	1.77213e-08
1.00000	2.34376e-09	2.02793e-09	1.49787e-09	1.08576e-09	8.58171e-10
0.100000	7.41376e-11	5.71965e-11	4.25415e-11	3.18529e-11	2.81820e-11
0.0100000	3.06524e-12	1.88419e-12	1.21459e-12	8.51387e-13	9.56598e-13
0.00100000	1.41467e-13	8.18133e-14	4.87518e-14	3.32065e-14	5.30469e-14
0.000100000	4.26895e-15	2.49424e-15	1.50243e-15	1.23470e-15	3.71331e-15
1.00000e-05	5.26331e-17	3.24600e-17	2.29485e-17	4.71927e-17	3.15441e-16
1.00000e-06	4.69157e-19	3.14042e-19	4.76623e-19	3.57422e-18	3.06732e-17
1.00000e-07	4.67591e-21	5.10553e-21	3.08596e-20	3.46403e-19	3.05845e-18
1.00000e-08	6.72197e-23	2.61474e-22	2.92597e-21	3.45339e-20	3.05757e-19
1.00000e-09	2.76217e-24	2.36766e-23	2.91010e-22	3.45233e-21	3.05747e-20

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.000325097	6.31039e-05	6.54128e-05	6.91667e-05	7.07545e-05

1.00000e+07	0.000478535	0.000206646	0.000144874	9.71354e-05	6.64992e-05
1.00000e+06	0.000424850	0.000248993	0.000102666	4.14230e-05	1.93032e-05
100000.	0.000148250	7.34691e-05	2.31201e-05	7.50028e-06	2.95576e-06
10000.0	2.66887e-05	1.24090e-05	3.53286e-06	9.96838e-07	3.45994e-07
1000.00	3.19872e-06	1.62989e-06	4.24892e-07	1.07651e-07	3.46961e-08
100.000	2.58527e-07	1.68867e-07	4.32378e-08	1.05662e-08	3.32887e-09
10.0000	1.61454e-08	1.54161e-08	4.14489e-09	1.01910e-09	3.20179e-10
1.00000	8.67307e-10	1.38862e-09	3.97483e-10	9.91204e-11	3.11730e-11
0.100000	4.04728e-11	1.28086e-10	3.85145e-11	9.71305e-12	3.05707e-12
0.0100000	2.41338e-12	1.22046e-11	3.78320e-12	9.61287e-13	3.02927e-13
0.00100000	1.94764e-13	1.18604e-12	3.74452e-13	9.56057e-14	3.01593e-14
0.000100000	1.75050e-14	1.16284e-13	3.71816e-14	9.52581e-15	3.00736e-15
1.00000e-05	1.68090e-15	1.15581e-14	3.71047e-15	9.51614e-16	3.00504e-16
1.00000e-06	1.66993e-16	1.15493e-15	3.70953e-16	9.51495e-17	3.00479e-17
1.00000e-07	1.66876e-17	1.15483e-16	3.70942e-17	9.51483e-18	3.00476e-18
1.00000e-08	1.66864e-18	1.15482e-17	3.70939e-18	9.51483e-19	3.00473e-19
1.00000e-09	1.66863e-19	1.15482e-18	3.70939e-19	9.51483e-20	3.00473e-20

Pa\K | 2750.00 3000.00 3250.00 3500.00 3750.00

1.00000e+08	6.82958e-05	6.23574e-05	5.43598e-05	4.57734e-05	3.76403e-05
1.00000e+07	4.40881e-05	2.85515e-05	1.83927e-05	1.19487e-05	7.89552e-06
1.00000e+06	9.64064e-06	5.04380e-06	2.75916e-06	1.58073e-06	9.48873e-07
100000.	1.28905e-06	6.05517e-07	3.05498e-07	1.65270e-07	9.54376e-08
10000.0	1.37396e-07	6.07300e-08	2.95446e-08	1.56531e-08	8.93249e-09
1000.00	1.32150e-08	5.71122e-09	2.74248e-09	1.44021e-09	8.16061e-10
100.000	1.25175e-09	5.36176e-10	2.55452e-10	1.33107e-10	7.48219e-11
10.0000	1.19826e-10	5.10222e-11	2.41417e-11	1.24835e-11	6.95983e-12
1.00000	1.16351e-11	4.93292e-12	2.32162e-12	1.19321e-12	6.60803e-13
0.100000	1.13845e-12	4.80939e-13	2.25352e-13	1.15240e-13	6.34697e-14
0.0100000	1.12776e-13	4.76036e-14	2.22822e-14	1.13812e-14	6.26037e-15
0.00100000	1.12302e-14	4.74028e-15	2.21864e-15	1.13310e-15	6.23196e-16
0.000100000	1.12007e-15	4.72822e-16	2.21308e-16	1.13029e-16	6.21670e-17
1.00000e-05	1.11931e-16	4.72522e-17	2.21175e-17	1.12964e-17	6.21323e-18
1.00000e-06	1.11922e-17	4.72485e-18	2.21159e-18	1.12956e-18	6.21285e-19
1.00000e-07	1.11921e-18	4.72483e-19	2.21157e-19	1.12955e-19	6.21281e-20
1.00000e-08	1.11921e-19	4.72483e-20	2.21157e-20	1.12955e-20	6.21279e-21
1.00000e-09	1.11921e-20	4.72483e-21	2.21157e-21	1.12955e-21	6.21279e-22

Pa\K | 4000.00

1.00000e+08	3.05064e-05
1.00000e+07	5.33291e-06
1.00000e+06	5.96021e-07
100000.	5.84566e-08
10000.0	5.43373e-09
1000.00	4.93292e-10
100.000	4.48612e-11
10.0000	4.13727e-12
1.00000	3.90009e-13
0.100000	3.72402e-14
0.0100000	3.66833e-15
0.00100000	3.65121e-16
0.000100000	3.64234e-17
1.00000e-05	3.64038e-18
1.00000e-06	3.64016e-19
1.00000e-07	3.64014e-20
1.00000e-08	3.64014e-21
1.00000e-09	3.64014e-22

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08	1.20143e-08	2.43464e-08	3.65933e-08	4.90728e-08	6.19381e-08
1.00000e+07	1.20053e-07	2.43099e-07	3.65116e-07	4.89278e-07	6.17106e-07
1.00000e+06	1.19165e-06	2.39497e-06	3.57121e-06	4.75192e-06	5.95153e-06
100000.	1.10889e-05	2.08165e-05	2.91838e-05	3.66883e-05	4.35797e-05
10000.0	6.46779e-05	9.07211e-05	0.000106842	0.000118600	0.000127404
1000.00	0.000127704	9.86871e-05	7.36866e-05	5.69276e-05	4.54899e-05
100.000	1.71210e-05	5.46511e-06	2.54251e-06	1.39205e-06	8.35545e-07
10.0000	1.01071e-07	7.10671e-09	1.20865e-09	3.17858e-10	1.09941e-10
1.00000	4.42918e-12	7.13852e-13	2.92527e-13	1.51343e-13	9.03937e-14
0.100000	1.68417e-14	6.21351e-15	4.34590e-15	3.60699e-15	3.23803e-15
0.0100000	1.97549e-15	1.56370e-15	1.44363e-15	1.39717e-15	1.38202e-15
0.00100000	1.06650e-15	8.57837e-16	7.19957e-16	6.15670e-16	5.31948e-16
0.000100000	2.42422e-16	7.91211e-17	3.45906e-17	1.77863e-17	1.01545e-17
1.00000e-05	1.45000e-18	1.70006e-19	4.85430e-20	1.99475e-20	9.99674e-21
1.00000e-06	1.22843e-21	1.65930e-22	5.85660e-23	2.98309e-23	1.84446e-23
1.00000e-07	5.14703e-24	1.91845e-24	1.19116e-24	8.72843e-25	6.95551e-25

1.00000e-08	3.25282e-25	1.58744e-25	1.06382e-25	8.07167e-26	6.56050e-26
1.00000e-09	3.16531e-26	1.56783e-26	1.05533e-26	8.02453e-27	6.53064e-27

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
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1.00000e+08	7.52604e-08	8.90921e-08	1.03501e-07	1.18582e-07	1.34463e-07
1.00000e+07	7.49296e-07	8.86352e-07	1.02893e-06	1.17794e-06	1.33461e-06
1.00000e+06	7.17592e-06	8.42874e-06	9.71455e-06	1.10401e-05	1.24141e-05
100000.	4.99916e-05	5.60120e-05	6.17140e-05	6.71671e-05	7.24391e-05
10000.0	0.000133852	0.000138327	0.000141145	0.000142578	0.000142864
1000.00	3.73256e-05	3.12432e-05	2.65466e-05	2.28133e-05	1.97762e-05
100.000	5.32000e-07	3.52833e-07	2.41033e-07	1.68363e-07	1.19641e-07
10.0000	4.63756e-11	2.28947e-11	1.28751e-11	8.06801e-12	5.51996e-12
1.00000	6.02170e-14	4.37963e-14	3.42046e-14	2.82869e-14	2.44799e-14
0.100000	3.03925e-15	2.93495e-15	2.89023e-15	2.88695e-15	2.91482e-15
0.0100000	1.38347e-15	1.39468e-15	1.41182e-15	1.43237e-15	1.45445e-15
0.00100000	4.62367e-16	4.03226e-16	3.52202e-16	3.07759e-16	2.68841e-16
0.000100000	6.24132e-18	4.05228e-18	2.74426e-18	1.92128e-18	1.38170e-18
1.00000e-05	5.67979e-21	3.51864e-21	2.32172e-21	1.60718e-21	1.15530e-21
1.00000e-06	1.28530e-23	9.70634e-24	7.76062e-24	6.47226e-24	5.57453e-24
1.00000e-07	5.83739e-25	5.07559e-25	4.52807e-25	4.11908e-25	3.80493e-25
1.00000e-08	5.57608e-26	4.89116e-26	4.39171e-26	4.01466e-26	3.72279e-26
1.00000e-09	5.55554e-27	4.87621e-27	4.38037e-27	4.00580e-27	3.71569e-27

Pa\K	120.000	130.000	140.000	150.000	160.000
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1.00000e+08	1.51303e-07	1.69291e-07	1.88650e-07	2.09640e-07	2.32555e-07
1.00000e+07	1.50049e-06	1.67739e-06	1.86744e-06	2.07311e-06	2.29723e-06
1.00000e+06	1.38477e-05	1.53536e-05	1.69462e-05	1.86418e-05	2.04580e-05
100000.	7.75961e-05	8.27015e-05	8.78155e-05	9.29955e-05	9.82951e-05
10000.0	0.000142206	0.000140779	0.000138727	0.000136171	0.000133211
1000.00	1.72586e-05	1.51396e-05	1.33333e-05	1.17772e-05	1.04247e-05
100.000	8.61834e-08	6.27691e-08	4.61318e-08	3.41624e-08	2.54624e-08
10.0000	4.04624e-12	3.12591e-12	2.51157e-12	2.07769e-12	1.75680e-12
1.00000	2.19557e-14	2.02513e-14	1.90956e-14	1.83240e-14	1.78332e-14
0.100000	2.96766e-15	3.04159e-15	3.13411e-15	3.24357e-15	3.36889e-15
0.0100000	1.47656e-15	1.49741e-15	1.51587e-15	1.53100e-15	1.54199e-15
0.00100000	2.34673e-16	2.04665e-16	1.78327e-16	1.55246e-16	1.35055e-16
0.000100000	1.01587e-18	7.60893e-19	5.79010e-19	4.46692e-19	3.48790e-19
1.00000e-05	8.56243e-22	6.50960e-22	5.05772e-22	4.00513e-22	3.22607e-22
1.00000e-06	4.92459e-24	4.44055e-24	4.07277e-24	3.78982e-24	3.57110e-24
1.00000e-07	3.55896e-25	3.36416e-25	3.20926e-25	3.08662e-25	2.99094e-25
1.00000e-08	3.49293e-26	3.31014e-26	3.16441e-26	3.04890e-26	2.95888e-26
1.00000e-09	3.48713e-27	3.30533e-27	3.16037e-27	3.04546e-27	2.95592e-27

Pa\K	170.000	180.000	190.000	200.000	210.000
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1.00000e+08	2.57743e-07	2.85597e-07	3.16572e-07	3.51193e-07	3.90059e-07
1.00000e+07	2.54305e-06	2.81429e-06	3.11520e-06	3.45062e-06	3.82612e-06
1.00000e+06	2.24143e-05	2.45323e-05	2.68353e-05	2.93486e-05	3.20994e-05
100000.	0.000103764	0.000109451	0.000115396	0.000121638	0.000128207
10000.0	0.000129931	0.000126401	0.000122680	0.000118818	0.000114855
1000.00	9.24038e-06	8.19687e-06	7.27284e-06	6.45136e-06	5.71886e-06
100.000	1.90843e-08	1.43745e-08	1.08750e-08	8.26075e-09	6.29879e-09
10.0000	1.51066e-12	1.31652e-12	1.16025e-12	1.03262e-12	9.27431e-13
1.00000	1.75575e-14	1.74537e-14	1.74943e-14	1.76613e-14	1.79439e-14
0.100000	3.50937e-15	3.66452e-15	3.83403e-15	4.01766e-15	4.21518e-15
0.0100000	1.54822e-15	1.54924e-15	1.54481e-15	1.53485e-15	1.51948e-15
0.00100000	1.17427e-16	1.02066e-16	8.87041e-17	7.71013e-17	6.70404e-17
0.000100000	2.75284e-19	2.19379e-19	1.76376e-19	1.42959e-19	1.16755e-19
1.00000e-05	2.63933e-22	2.19093e-22	1.84404e-22	1.57304e-22	1.35968e-22
1.00000e-06	3.40274e-24	3.27520e-24	3.18194e-24	3.11848e-24	3.08184e-24
1.00000e-07	2.91855e-25	2.86693e-25	2.83445e-25	2.82013e-25	2.82360e-25
1.00000e-08	2.89102e-26	2.84309e-26	2.81363e-26	2.80181e-26	2.80737e-26
1.00000e-09	2.88846e-27	2.84086e-27	2.81167e-27	2.80008e-27	2.80583e-27

Pa\K	220.000	230.000	240.000	250.000	260.000
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1.00000e+08	4.33861e-07	4.83386e-07	5.39542e-07	6.03362e-07	6.76031e-07
1.00000e+07	4.24798e-06	4.72333e-06	5.26032e-06	5.86813e-06	6.55711e-06
1.00000e+06	3.51172e-05	3.84331e-05	4.20803e-05	4.60943e-05	5.05118e-05
100000.	0.000135128	0.000142417	0.000150080	0.000158114	0.000166503
10000.0	0.000110826	0.000106760	0.000102680	9.86058e-05	9.45532e-05
1000.00	5.06433e-06	4.47875e-06	3.95458e-06	3.48545e-06	3.06592e-06
100.000	4.82021e-09	3.70180e-09	2.85296e-09	2.20671e-09	1.71326e-09
10.0000	8.40285e-13	7.67984e-13	7.08118e-13	6.58820e-13	6.18618e-13
1.00000	1.83365e-14	1.88370e-14	1.94464e-14	2.01684e-14	2.10088e-14
0.100000	4.42638e-15	4.65100e-15	4.88873e-15	5.13925e-15	5.40220e-15
0.0100000	1.49897e-15	1.47372e-15	1.44424e-15	1.41114e-15	1.37505e-15
0.00100000	5.83281e-17	5.07914e-17	4.42778e-17	3.86521e-17	3.37957e-17

0.000100000	9.60394e-20	7.95400e-20	6.63100e-20	5.56362e-20	4.69763e-20
1.00000e-05	1.19085e-22	1.05694e-22	9.50834e-23	8.67295e-23	8.02403e-23
1.00000e-06	3.07027e-24	3.08294e-24	3.11990e-24	3.18199e-24	3.27083e-24
1.00000e-07	2.84499e-25	2.88495e-25	2.94460e-25	3.02563e-25	3.13033e-25
1.00000e-08	2.83052e-26	2.87194e-26	2.93283e-26	3.01491e-26	3.12050e-26
1.00000e-09	2.82912e-27	2.87069e-27	2.93169e-27	3.01386e-27	3.11953e-27

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	7.58902e-07	8.53516e-07	9.61627e-07	2.16392e-06	7.17210e-06
1.00000e+07	7.33898e-06	8.22688e-06	9.23554e-06	2.00466e-05	5.99856e-05
1.00000e+06	5.53721e-05	6.07154e-05	6.65843e-05	0.000121028	0.000255958
100000.	0.000175219	0.000184224	0.000193467	0.000256357	0.000294673
10000.0	9.05345e-05	8.65601e-05	8.26384e-05	6.89903e-05	3.56994e-05
1000.00	2.69122e-06	2.35715e-06	2.05992e-06	1.36396e-06	3.37192e-07
100.000	1.33542e-09	1.04535e-09	8.22070e-10	1.06295e-09	2.75657e-10
10.0000	5.86330e-13	5.61004e-13	5.41868e-13	3.93422e-12	7.16227e-12
1.00000	2.19751e-14	2.30772e-14	2.43268e-14	6.32857e-13	1.44764e-12
0.100000	5.67723e-15	5.96406e-15	6.26249e-15	2.07451e-13	3.25755e-13
0.0100000	1.33664e-15	1.29657e-15	1.25549e-15	3.28195e-14	2.52858e-14
0.00100000	2.96052e-17	2.59895e-17	2.28703e-17	6.58035e-16	3.30105e-16
0.000100000	3.99142e-20	3.41285e-20	3.93691e-20	3.81771e-18	4.26652e-18
1.00000e-05	7.53272e-23	7.17811e-23	6.94583e-23	1.24016e-19	2.98830e-19
1.00000e-06	3.38895e-24	3.53980e-24	3.72803e-24	1.11242e-20	2.90625e-20
1.00000e-07	3.26173e-25	3.42369e-25	3.62117e-25	1.10183e-21	2.89835e-21
1.00000e-08	3.25264e-26	3.41521e-26	3.61319e-26	1.10072e-22	2.89749e-22
1.00000e-09	3.25175e-27	3.41438e-27	3.61241e-27	1.10060e-23	2.89739e-23

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	2.42334e-05	7.64649e-05	0.000213964	0.000561662	0.00159353
1.00000e+07	0.000166891	0.000389288	0.000758453	0.00142651	0.00259171
1.00000e+06	0.000463122	0.000669736	0.000859362	0.00118363	0.00158650
100000.	0.000269558	0.000216854	0.000190444	0.000222243	0.000284184
10000.0	1.65915e-05	8.42477e-06	6.40929e-06	9.47219e-06	1.99475e-05
1000.00	9.62847e-08	4.86963e-08	7.59178e-08	3.66206e-07	2.07729e-06
100.000	2.52301e-10	7.22785e-10	4.73750e-09	4.92562e-08	3.48454e-07
10.0000	2.10883e-11	1.01142e-10	8.06174e-10	7.94313e-09	4.63246e-08
1.00000	4.20014e-12	1.72561e-11	1.09521e-10	8.78519e-10	4.59148e-09
0.100000	5.91810e-13	1.61854e-12	8.41835e-12	7.28609e-11	4.22983e-10
0.0100000	2.70542e-14	6.34395e-14	5.05540e-13	6.34912e-12	4.10172e-11
0.00100000	4.16652e-16	2.59401e-15	4.18442e-14	6.16408e-13	4.08143e-12
0.000100000	1.86914e-17	2.22815e-16	4.09316e-15	6.14388e-14	4.07921e-13
1.00000e-05	1.73677e-18	2.19881e-17	4.08438e-16	6.14184e-15	4.07899e-14
1.00000e-06	1.72492e-19	2.19549e-18	4.08339e-17	6.14162e-16	4.07897e-15
1.00000e-07	1.72345e-20	2.19503e-19	4.08327e-18	6.14159e-17	4.07897e-16
1.00000e-08	1.72327e-21	2.19497e-20	4.08326e-19	6.14159e-18	4.07897e-17
1.00000e-09	1.72325e-22	2.19496e-21	4.08326e-20	6.14159e-19	4.07897e-18

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	0.00342243	0.00523218	0.00624738	0.00632601	0.00568736
1.00000e+07	0.00330962	0.00300518	0.00270144	0.00264904	0.00262110
1.00000e+06	0.00168475	0.00139782	0.00114898	0.00100538	0.000870654
100000.	0.000333827	0.000331303	0.000300887	0.000254705	0.000198472
10000.0	4.09065e-05	5.76241e-05	5.67083e-05	4.54790e-05	3.28521e-05
1000.00	6.62404e-06	9.77280e-06	8.80380e-06	6.46125e-06	4.40410e-06
100.000	1.01171e-06	1.29654e-06	1.05834e-06	7.35963e-07	4.88008e-07
10.0000	1.14604e-07	1.35901e-07	1.07886e-07	7.43790e-08	4.91755e-08
1.00000	1.10922e-08	1.32394e-08	1.06123e-08	7.35997e-09	4.88083e-09
0.100000	1.07178e-09	1.30325e-09	1.05287e-09	7.32592e-10	4.86516e-10
0.0100000	1.06263e-10	1.29908e-10	1.05131e-10	7.31982e-11	4.86234e-11
0.00100000	1.06138e-11	1.29855e-11	1.05112e-11	7.31900e-12	4.86198e-12
0.000100000	1.06124e-12	1.29849e-12	1.05110e-12	7.31895e-13	4.86193e-13
1.00000e-05	1.06122e-13	1.29848e-13	1.05110e-13	7.31895e-14	4.86193e-14
1.00000e-06	1.06122e-14	1.29848e-14	1.05110e-14	7.31895e-15	4.86193e-15
1.00000e-07	1.06122e-15	1.29848e-15	1.05110e-15	7.31895e-16	4.86193e-16
1.00000e-08	1.06122e-16	1.29848e-16	1.05110e-16	7.31895e-17	4.86193e-17
1.00000e-09	1.06122e-17	1.29848e-17	1.05110e-17	7.31895e-18	4.86193e-18

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.00488152	0.000279052	0.000270995	0.000266995	0.000255352
1.00000e+07	0.00245792	0.000168081	0.000149421	0.000120862	9.00353e-05
1.00000e+06	0.000730069	6.94796e-05	4.25497e-05	2.54030e-05	1.51358e-05
100000.	0.000146925	1.35051e-05	6.68619e-06	3.46492e-06	1.84595e-06
10000.0	2.27112e-05	2.01667e-06	8.71541e-07	4.02825e-07	1.97475e-07
1000.00	2.92805e-06	2.51253e-07	9.77666e-08	4.20881e-08	1.98997e-08
100.000	3.19001e-07	2.69779e-08	1.00382e-08	4.22500e-09	1.98131e-09
10.0000	3.20898e-08	2.72581e-09	1.00517e-09	4.21541e-10	1.97495e-10

1.00000	3.19009e-09	2.72306e-10	1.00379e-10	4.20888e-11	1.97189e-11
0.100000	3.18211e-10	2.72068e-11	1.00317e-11	4.20661e-12	1.97092e-12
0.0100000	3.18067e-11	2.72021e-12	1.00307e-12	4.20630e-13	1.97079e-13
0.00100000	3.18048e-12	2.72013e-13	1.00306e-13	4.20624e-14	1.97077e-14
0.000100000	3.18045e-13	2.72012e-14	1.00305e-14	4.20624e-15	1.97077e-15
1.00000e-05	3.18045e-14	2.72012e-15	1.00305e-15	4.20624e-16	1.97077e-16
1.00000e-06	3.18045e-15	2.72012e-16	1.00305e-16	4.20624e-17	1.97077e-17
1.00000e-07	3.18045e-16	2.72012e-17	1.00305e-17	4.20624e-18	1.97077e-18
1.00000e-08	3.18045e-17	2.72012e-18	1.00305e-18	4.20624e-19	1.97077e-19
1.00000e-09	3.18045e-18	2.72012e-19	1.00305e-19	4.20624e-20	1.97077e-20

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.000234539	0.000207172	0.000177398	0.000148626	0.000122829
1.00000e+07	6.43150e-05	4.52213e-05	3.17790e-05	2.25175e-05	1.61708e-05
1.00000e+06	9.14750e-06	5.65312e-06	3.59411e-06	2.35973e-06	1.60180e-06
100000.	1.01934e-06	5.89575e-07	3.58729e-07	2.29284e-07	1.53246e-07
10000.0	1.03677e-07	5.84038e-08	3.51008e-08	2.23182e-08	1.48879e-08
1000.00	1.02919e-08	5.76682e-09	3.46047e-09	2.19973e-09	1.46762e-09
100.000	1.02232e-09	5.72565e-10	3.43593e-10	2.18448e-10	1.45767e-10
10.0000	1.01893e-10	5.70714e-11	3.42518e-11	2.17783e-11	1.45334e-11
1.00000	1.01740e-11	5.69879e-12	3.42028e-12	2.17476e-12	1.45131e-12
0.100000	1.01693e-12	5.69632e-13	3.41885e-13	2.17389e-13	1.45075e-13
0.0100000	1.01687e-13	5.69600e-14	3.41867e-14	2.17378e-14	1.45068e-14
0.00100000	1.01686e-14	5.69598e-15	3.41865e-15	2.17377e-15	1.45067e-15
0.000100000	1.01686e-15	5.69598e-16	3.41865e-16	2.17377e-16	1.45067e-16
1.00000e-05	1.01686e-16	5.69598e-17	3.41865e-17	2.17377e-17	1.45067e-17
1.00000e-06	1.01686e-17	5.69598e-18	3.41865e-18	2.17377e-18	1.45067e-18
1.00000e-07	1.01686e-18	5.69598e-19	3.41865e-19	2.17377e-19	1.45067e-19
1.00000e-08	1.01686e-19	5.69598e-20	3.41865e-20	2.17377e-20	1.45067e-20
1.00000e-09	1.01686e-20	5.69598e-21	3.41865e-21	2.17377e-21	1.45067e-21

Pa\K	4000.00
1.00000e+08	0.000100777
1.00000e+07	1.18063e-05
1.00000e+06	1.12310e-06
100000.	1.06532e-07
10000.0	1.03442e-08
1000.00	1.01998e-09
100.000	1.01320e-10
10.0000	1.01025e-11
1.00000	1.00885e-12
0.100000	1.00846e-13
0.0100000	1.00841e-14
0.00100000	1.00841e-15
0.000100000	1.00841e-16
1.00000e-05	1.00841e-17
1.00000e-06	1.00841e-18
1.00000e-07	1.00841e-19
1.00000e-08	1.00841e-20
1.00000e-09	1.00841e-21

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.46899e-14	3.05373e-14	4.83702e-14	6.97153e-14	9.57786e-14
1.00000e+07	1.46898e-13	3.05372e-13	4.83701e-13	6.97151e-13	9.57781e-13
1.00000e+06	1.46897e-12	3.05367e-12	4.83688e-12	6.97126e-12	9.57738e-12
100000.	1.46885e-11	3.05315e-11	4.83563e-11	6.96882e-11	9.57310e-11
10000.0	1.46761e-10	3.04791e-10	4.82311e-10	6.94446e-10	9.53048e-10
1000.00	1.45530e-09	2.99650e-09	4.70137e-09	6.70994e-09	9.12423e-09
100.000	1.34267e-08	2.56331e-08	3.75154e-08	5.01070e-08	6.38774e-08
10.0000	7.53360e-08	1.03715e-07	1.22422e-07	1.39462e-07	1.56847e-07
1.00000	1.37094e-07	1.46978e-07	1.56729e-07	1.68883e-07	1.83425e-07
0.100000	1.51134e-07	1.58490e-07	1.69842e-07	1.85339e-07	2.04775e-07
0.0100000	1.80279e-07	2.18615e-07	2.65705e-07	3.24533e-07	3.97884e-07
0.00100000	4.53263e-07	7.31796e-07	1.00438e-06	1.29565e-06	1.61811e-06
0.000100000	2.79463e-06	2.31517e-06	2.67414e-06	3.00566e-06	3.35179e-06
1.00000e-05	1.86000e-06	3.05982e-06	3.23843e-06	3.46746e-06	3.74799e-06
1.00000e-06	3.07751e-06	3.15630e-06	3.30508e-06	3.51944e-06	3.79129e-06
1.00000e-07	3.09720e-06	3.16617e-06	3.31184e-06	3.52469e-06	3.79565e-06
1.00000e-08	3.09918e-06	3.16716e-06	3.31252e-06	3.52522e-06	3.79609e-06
1.00000e-09	3.09938e-06	3.16726e-06	3.31259e-06	3.52527e-06	3.79613e-06

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.27823e-13	1.67468e-13	2.16917e-13	2.79170e-13	3.58292e-13
1.00000e+07	1.27822e-12	1.67466e-12	2.16915e-12	2.79167e-12	3.58288e-12

1.00000e+06	1.27815e-11	1.67455e-11	2.16898e-11	2.79141e-11	3.58249e-11
100000.	1.27745e-10	1.67344e-10	2.16726e-10	2.78881e-10	3.57856e-10
10000.0	1.27045e-09	1.66239e-09	2.15026e-09	2.76302e-09	3.53976e-09
1000.00	1.20445e-08	1.55947e-08	1.99393e-08	2.52947e-08	3.19421e-08
100.000	7.91187e-08	9.61247e-08	1.15254e-07	1.36943e-07	1.61713e-07
10.0000	1.75302e-06	1.95291e-07	2.17272e-07	2.41756e-07	2.69324e-07
1.00000	2.00247e-07	2.19455e-07	2.41375e-07	2.66526e-07	2.95607e-07
0.100000	2.28350e-07	2.56812e-07	2.91495e-07	3.34369e-07	3.88161e-07
0.0100000	4.89787e-07	6.06265e-07	7.55661e-07	9.48847e-07	1.19942e-06
0.00100000	1.98228e-06	2.39997e-06	2.88438e-06	3.44949e-06	4.10975e-06
0.000100000	3.73166e-06	4.16028e-06	4.65203e-06	5.22110e-06	5.88172e-06
1.00000e-05	4.08239e-06	4.47766e-06	4.94387e-06	5.49272e-06	6.13685e-06
1.00000e-06	4.11998e-06	4.51120e-06	4.97440e-06	5.52090e-06	6.16316e-06
1.00000e-07	4.12376e-06	4.51458e-06	4.97746e-06	5.52373e-06	6.16580e-06
1.00000e-08	4.12414e-06	4.51491e-06	4.97777e-06	5.52401e-06	6.16606e-06
1.00000e-09	4.12418e-06	4.51495e-06	4.97780e-06	5.52404e-06	6.16609e-06

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	4.59770e-13	5.91012e-13	7.62043e-13	9.86437e-13	1.28259e-12
1.00000e+07	4.59764e-12	5.91003e-12	7.62029e-12	9.86416e-12	1.28256e-11
1.00000e+06	4.59704e-11	5.90913e-11	7.61894e-11	9.86210e-11	1.28225e-10
100000.	4.59113e-10	5.90022e-10	7.60545e-10	9.84157e-10	1.27910e-09
10000.0	4.53287e-09	5.81265e-09	7.47337e-09	9.64134e-09	1.24857e-08
1000.00	4.02428e-08	5.06572e-08	6.37678e-08	8.03060e-08	1.01182e-07
100.000	1.90176e-07	2.23039e-07	2.61125e-07	3.05389e-07	3.56935e-07
10.0000	3.00643e-07	3.36475e-07	3.77706e-07	4.25368e-07	4.80670e-07
1.00000	3.29508e-07	3.69355e-07	4.16573e-07	4.72991e-07	5.40973e-07
0.100000	4.56573e-07	5.44591e-07	6.58929e-07	8.08594e-07	1.00560e-06
0.0100000	1.52398e-06	1.94235e-06	2.47788e-06	3.15745e-06	4.01152e-06
0.00100000	4.88013e-06	5.77636e-06	6.81543e-06	8.01593e-06	9.39855e-06
0.000100000	6.64850e-06	7.53681e-06	8.56339e-06	9.74674e-06	1.11076e-05
1.00000e-05	6.88981e-06	7.76629e-06	8.78248e-06	9.95652e-06	1.13088e-05
1.00000e-06	6.91457e-06	7.78973e-06	8.80477e-06	9.97777e-06	1.13292e-05
1.00000e-07	6.91705e-06	7.79208e-06	8.80701e-06	9.97996e-06	1.13312e-05
1.00000e-08	6.91730e-06	7.79232e-06	8.80724e-06	9.98016e-06	1.13315e-05
1.00000e-09	6.91732e-06	7.79234e-06	8.80726e-06	9.98016e-06	1.13315e-05

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.67544e-12	2.19877e-12	2.89823e-12	3.83551e-12	5.09371e-12
1.00000e+07	1.67540e-11	2.19870e-11	2.89811e-11	3.83532e-11	5.09341e-11
1.00000e+06	1.67491e-10	2.19793e-10	2.89693e-10	3.83347e-10	5.09048e-10
100000.	1.67006e-09	2.19040e-09	2.88516e-09	3.81498e-09	5.06131e-09
10000.0	1.62324e-08	2.11819e-08	2.77329e-08	3.64105e-08	4.79030e-08
1000.00	1.27516e-07	1.60674e-07	2.02301e-07	2.54355e-07	3.19141e-07
100.000	4.17041e-07	4.87182e-07	5.69055e-07	6.64610e-07	7.76082e-07
10.0000	5.45036e-07	6.20155e-07	7.08034e-07	8.11071e-07	9.32147e-07
1.00000	6.23608e-07	7.24956e-07	8.50385e-07	1.00701e-06	1.20425e-06
0.100000	1.26584e-06	1.61003e-06	2.06486e-06	2.66400e-06	3.44918e-06
0.0100000	5.07399e-06	6.38187e-06	7.97496e-06	9.89546e-06	1.21877e-05
0.00100000	1.09864e-05	1.28051e-05	1.48835e-05	1.72535e-05	1.99498e-05
0.000100000	1.26691e-05	1.44573e-05	1.65012e-05	1.88330e-05	2.14883e-05
1.00000e-05	1.28825e-05	1.46433e-05	1.66800e-05	1.90050e-05	2.16535e-05
1.00000e-06	1.28821e-05	1.46620e-05	1.66981e-05	1.90223e-05	2.16701e-05
1.00000e-07	1.28840e-05	1.46639e-05	1.66999e-05	1.90241e-05	2.16718e-05
1.00000e-08	1.28841e-05	1.46640e-05	1.67000e-05	1.90243e-05	2.16719e-05
1.00000e-09	1.28841e-05	1.46641e-05	1.67001e-05	1.90243e-05	2.16720e-05

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	6.78452e-12	9.05766e-12	1.21132e-11	1.62176e-11	2.17243e-11
1.00000e+07	6.78405e-11	9.05693e-11	1.21120e-10	1.62158e-10	2.17214e-10
1.00000e+06	6.77940e-10	9.04954e-10	1.21003e-09	1.61971e-09	2.16917e-09
100000.	6.73323e-09	8.97633e-09	1.19841e-08	1.60127e-08	2.13993e-08
10000.0	6.31055e-08	8.31740e-08	1.09588e-07	1.44223e-07	1.89434e-07
1000.00	3.99341e-07	4.98042e-07	6.18766e-07	7.65488e-07	9.42668e-07
100.000	9.06027e-07	1.05737e-06	1.23341e-06	1.43799e-06	1.67539e-06
10.0000	1.07475e-06	1.24314e-06	1.44253e-06	1.67940e-06	1.96177e-06
1.00000	1.45462e-06	1.77453e-06	2.18553e-06	2.71557e-06	3.40050e-06
0.100000	4.47104e-06	5.78965e-06	7.47475e-06	9.60544e-06	1.22696e-05
0.0100000	1.48978e-05	1.80735e-05	2.17642e-05	2.60209e-05	3.08964e-05
0.00100000	2.30112e-05	2.64796e-05	3.04002e-05	3.48223e-05	3.97984e-05
0.000100000	2.45055e-05	2.79274e-05	3.17996e-05	3.61715e-05	4.10965e-05
1.00000e-05	2.46643e-05	2.80797e-05	3.19456e-05	3.63115e-05	4.12303e-05
1.00000e-06	2.46803e-05	2.80950e-05	3.19603e-05	3.63255e-05	4.12437e-05
1.00000e-07	2.46818e-05	2.80966e-05	3.19618e-05	3.63269e-05	4.12451e-05
1.00000e-08	2.46820e-05	2.80967e-05	3.19619e-05	3.63271e-05	4.12452e-05
1.00000e-09	2.46820e-05	2.80967e-05	3.19619e-05	3.63271e-05	4.12452e-05

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	2.91000e-11	3.89570e-11	5.20938e-11	2.56874e-10	3.23380e-09
1.00000e+07	2.90952e-10	3.89495e-10	5.20820e-10	2.56580e-09	3.22050e-08
1.00000e+06	2.90481e-09	3.88748e-09	5.19644e-09	2.53762e-08	3.09685e-07
100000.	2.85857e-08	3.81461e-08	5.08211e-08	2.30873e-07	2.32710e-06
10000.0	2.48145e-07	3.23942e-07	4.21168e-07	1.33419e-06	7.86496e-06
1000.00	1.15526e-06	1.40874e-06	1.70911e-06	2.85573e-06	9.60033e-06
100.000	1.95056e-06	2.26913e-06	2.63751e-06	2.29559e-06	4.26743e-06
10.0000	2.29972e-06	2.70585e-06	3.19596e-06	4.16362e-07	4.07504e-07
1.00000	4.28569e-06	5.42774e-06	6.89597e-06	8.02725e-09	7.88325e-09
0.100000	1.55622e-05	1.95847e-05	2.44422e-05	3.34289e-11	3.95819e-11
0.0100000	3.64453e-05	4.27244e-05	4.97930e-05	6.14804e-14	1.09226e-13
0.00100000	2.53849e-05	5.16419e-05	5.86322e-05	1.21784e-16	4.62759e-16
0.000100000	4.66310e-05	5.28352e-05	5.97728e-05	6.28969e-19	4.65512e-18
1.00000e-05	4.67588e-05	5.29572e-05	5.98890e-05	7.50922e-21	8.83466e-20
1.00000e-06	4.67716e-05	5.29693e-05	5.99006e-05	1.76545e-22	2.87988e-21
1.00000e-07	4.67729e-05	5.29706e-05	5.99017e-05	7.89876e-24	1.57735e-22
1.00000e-08	4.67730e-05	5.29707e-05	5.99019e-05	6.31664e-25	1.35444e-23
1.00000e-09	4.67730e-05	5.29707e-05	5.99019e-05	6.14036e-26	1.32962e-24

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	3.41478e-08	3.38032e-07	2.91918e-06	2.71751e-05	0.000259793
1.00000e+07	3.35165e-07	2.87344e-06	1.83088e-05	8.76732e-05	0.000388502
1.00000e+06	2.93408e-06	1.88348e-05	6.55465e-05	0.000139836	0.000247011
100000.	1.48729e-05	5.21388e-05	9.38965e-05	0.000134907	0.000180511
10000.0	2.74717e-05	5.41959e-05	7.20638e-05	0.000112172	0.000177115
1000.00	2.02066e-05	2.85400e-05	4.07353e-05	7.94259e-05	0.000125676
100.000	5.62058e-06	7.23279e-06	1.19706e-05	2.46004e-05	3.38140e-05
10.0000	4.58366e-07	6.49475e-07	1.23595e-06	2.75746e-06	3.76733e-06
1.00000	1.04788e-08	1.96139e-08	5.39720e-08	1.67908e-07	2.85760e-07
0.100000	8.16412e-11	3.02910e-10	1.72970e-09	9.21418e-09	2.12241e-08
0.0100000	5.06595e-13	5.02880e-12	6.52442e-11	5.70041e-10	1.68604e-09
0.00100000	5.48568e-15	1.28535e-13	3.14489e-12	3.98124e-11	1.41943e-10
0.000100000	1.08633e-16	4.68929e-15	1.82737e-13	3.04676e-12	1.24846e-11
1.00000e-05	3.32841e-18	2.23675e-16	1.22660e-14	2.50338e-13	1.13625e-12
1.00000e-06	1.50530e-19	1.36350e-17	9.40377e-16	2.19627e-14	1.06739e-13
1.00000e-07	9.92785e-21	1.05614e-18	8.21457e-17	2.05565e-15	1.03471e-14
1.00000e-08	8.99172e-22	9.96160e-20	7.97096e-18	2.02593e-16	1.02786e-15
1.00000e-09	8.88692e-23	9.89379e-21	7.94324e-19	2.02254e-17	1.02709e-16

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	0.00106880	0.00193919	0.00237319	0.00239496	0.00215341
1.00000e+07	0.00108590	0.00191152	0.00269643	0.00347192	0.00395619
1.00000e+06	0.000423323	0.000751705	0.00124135	0.00173754	0.00201299
100000.	0.000236691	0.000370149	0.000565769	0.000717928	0.000764181
10000.0	0.000222924	0.000273420	0.000316976	0.000319734	0.000285028
1000.00	0.000127226	0.000113678	9.78107e-05	7.79721e-05	5.80660e-05
100.000	2.77435e-05	1.98951e-05	1.42988e-05	1.00309e-05	6.83848e-06
10.0000	3.00920e-06	2.07062e-06	1.43340e-06	9.79966e-07	6.56943e-07
1.00000	2.59672e-07	1.89228e-07	1.33738e-07	9.21130e-08	6.19161e-08
0.100000	2.24269e-08	1.74296e-08	1.26209e-08	8.77515e-09	5.92179e-09
0.0100000	2.00630e-09	1.63937e-09	1.20965e-09	8.47240e-10	5.73513e-10
0.00100000	1.84641e-10	1.56677e-10	1.17259e-10	8.25816e-11	5.60301e-11
0.000100000	1.73576e-11	1.51513e-11	1.14606e-11	8.10468e-12	5.50830e-12
1.00000e-05	1.65899e-12	1.47860e-12	1.12723e-12	7.99568e-13	5.44115e-13
1.00000e-06	1.61016e-13	1.45513e-13	1.11513e-13	7.92592e-14	5.39833e-14
1.00000e-07	1.58681e-14	1.44399e-14	1.10947e-14	7.89377e-15	5.37888e-15
1.00000e-08	1.58200e-15	1.44175e-15	1.10835e-15	7.88755e-16	5.37521e-16
1.00000e-09	1.58146e-16	1.44150e-16	1.10823e-16	7.88690e-17	5.37480e-17

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.00187348	0.000189599	0.000176569	0.000166021	0.000159026
1.00000e+07	0.00398931	8.25551e-05	8.39029e-05	8.80626e-05	8.75637e-05
1.00000e+06	0.00205605	7.32179e-05	7.06114e-05	6.15348e-05	4.71116e-05
100000.	0.000730208	5.34606e-05	3.67992e-05	2.22174e-05	1.21021e-05
10000.0	0.000234061	1.81365e-05	8.56597e-06	3.79632e-06	1.64615e-06
1000.00	4.13210e-05	2.93268e-06	1.10853e-06	4.24661e-07	1.69232e-07
100.000	4.56902e-06	3.24480e-07	1.14004e-07	4.20261e-08	1.64597e-08
10.0000	4.33974e-07	3.22987e-08	1.12025e-08	4.10602e-09	1.60473e-09
1.00000	4.09409e-08	3.17640e-09	1.10063e-09	4.03240e-10	1.57577e-10
0.100000	3.92271e-09	3.13422e-10	1.08623e-10	3.97991e-11	1.55532e-11
0.0100000	3.80435e-10	3.10350e-11	1.07579e-11	3.94192e-12	1.54053e-12
0.00100000	3.72055e-11	3.08096e-12	1.06813e-12	3.91406e-13	1.52967e-13
0.000100000	3.66048e-12	3.06440e-13	1.06249e-13	3.89357e-14	1.52168e-14
1.00000e-05	3.61790e-13	3.05240e-14	1.05841e-14	3.87871e-15	1.51589e-15
1.00000e-06	3.59086e-14	3.04488e-15	1.05592e-15	3.86985e-16	1.51252e-16

1.00000e-07	3.57874e-15	3.04324e-16	1.05540e-16	3.86807e-17	1.51187e-17
1.00000e-08	3.57650e-16	3.04305e-17	1.05534e-17	3.86789e-18	1.51179e-18
1.00000e-09	3.57626e-17	3.04303e-18	1.05533e-18	3.86786e-19	1.51178e-19

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.000153852	0.000148309	0.000141041	0.000131561	0.000120091
1.00000e+07	8.09002e-05	6.96500e-05	5.64795e-05	4.37235e-05	3.27643e-05
1.00000e+06	3.25653e-05	2.10148e-05	1.30511e-05	7.99594e-06	4.92286e-06
100000.	6.25384e-06	3.19597e-06	1.66257e-06	8.95861e-07	5.04312e-07
10000.0	7.27334e-07	3.35958e-07	1.64241e-07	8.52940e-08	4.69896e-08
1000.00	7.14695e-08	3.22573e-08	1.55869e-08	8.04612e-09	4.41796e-09
100.000	6.90046e-09	3.10480e-09	1.49811e-09	7.72720e-10	4.24024e-10
10.0000	6.72257e-10	3.02385e-10	1.45876e-10	7.52259e-11	4.12679e-11
1.00000	6.60103e-11	2.96903e-11	1.43219e-11	7.38450e-12	4.05018e-12
0.100000	6.51540e-12	2.93045e-12	1.41348e-12	7.28715e-13	3.99610e-13
0.0100000	6.45346e-13	2.90252e-13	1.39992e-13	7.21657e-14	3.95691e-14
0.00100000	6.40794e-14	2.88198e-14	1.38995e-14	7.16468e-15	3.92807e-15
0.000100000	6.37452e-15	2.86689e-15	1.38263e-15	7.12655e-16	3.90689e-16
1.00000e-05	6.35023e-16	2.85593e-16	1.37731e-16	7.09885e-17	3.89148e-17
1.00000e-06	6.33642e-17	2.84982e-17	1.37440e-17	7.08401e-18	3.88339e-18
1.00000e-07	6.33380e-18	2.84870e-18	1.37388e-18	7.08140e-19	3.88200e-19
1.00000e-08	6.33352e-19	2.84858e-19	1.37383e-19	7.08111e-20	3.88185e-20
1.00000e-09	6.33349e-20	2.84858e-20	1.37382e-20	7.08109e-21	3.88183e-21

Pa\K	4000.00
1.00000e+08	0.000107308
1.00000e+07	2.40714e-05
1.00000e+06	3.08421e-06
100000.	2.97357e-07
10000.0	2.73549e-08
1000.00	2.56645e-09
100.000	2.46174e-10
10.0000	2.39500e-11
1.00000	2.34988e-12
0.100000	2.31800e-13
0.0100000	2.29489e-14
0.00100000	2.27788e-15
0.000100000	2.26539e-16
1.00000e-05	2.25630e-17
1.00000e-06	2.25163e-18
1.00000e-07	2.25082e-19
1.00000e-08	2.25074e-20
1.00000e-09	2.25074e-21

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.98103e-49	2.64184e-46	2.72943e-44	7.39592e-43	1.12592e-41
1.00000e+07	3.35969e-46	2.99107e-44	2.74838e-42	7.40418e-41	1.12620e-39
1.00000e+06	3.77722e-43	6.55479e-42	2.93772e-40	7.48589e-39	1.12895e-37
100000.	3.81229e-40	4.19408e-39	4.81058e-38	8.29107e-37	1.15585e-35
10000.0	3.69362e-37	3.71043e-36	2.16337e-35	1.52582e-34	1.37458e-33
1000.00	2.70797e-34	2.04693e-33	8.49720e-33	3.37517e-32	1.56372e-31
100.000	3.55955e-32	1.08362e-31	2.72476e-31	7.62082e-31	2.66627e-30
10.0000	4.53183e-31	1.14786e-30	2.75223e-30	7.50722e-30	2.59435e-29
1.00000	4.52266e-30	1.12587e-29	2.66247e-29	7.17590e-29	2.45546e-28
0.100000	4.06528e-29	9.11673e-29	1.96003e-28	4.83902e-28	1.52801e-27
0.0100000	1.59654e-28	1.71395e-28	2.07446e-28	3.22364e-28	7.02518e-28
0.00100000	1.28426e-29	2.49803e-30	1.30058e-30	1.30117e-30	2.52083e-30
0.000100000	1.48465e-32	3.04174e-33	2.33309e-33	4.02129e-33	1.78014e-32
1.00000e-05	1.04166e-34	5.46631e-35	6.88746e-35	1.75128e-34	1.11381e-33
1.00000e-06	6.39889e-36	4.26682e-36	5.88872e-36	1.58940e-35	1.05929e-34
1.00000e-07	6.06399e-37	4.15722e-37	5.79439e-37	1.57380e-36	1.05395e-35
1.00000e-08	6.03114e-38	4.14636e-38	5.78502e-38	1.57225e-37	1.05342e-36
1.00000e-09	6.02786e-39	4.14528e-39	5.78408e-39	1.57209e-38	1.05336e-37

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.36640e-40	1.67057e-39	2.54596e-38	5.27071e-37	1.19562e-35
1.00000e+07	1.36642e-38	1.67042e-37	2.54563e-36	5.26999e-35	1.19545e-33
1.00000e+06	1.36654e-36	1.66901e-35	2.54244e-34	5.26280e-33	1.19383e-31
100000.	1.36758e-34	1.65503e-33	2.51090e-32	5.19204e-31	1.17785e-29
10000.0	1.36300e-32	1.52334e-31	2.22920e-30	4.56997e-29	1.03826e-27
1000.00	9.33632e-31	7.64899e-30	9.69167e-29	1.97285e-27	4.64507e-26
100.000	1.29756e-29	9.49745e-29	1.18755e-27	2.62821e-26	6.75272e-25
10.0000	1.26235e-28	9.30113e-28	1.17650e-26	2.66226e-25	6.98232e-24
1.00000	1.18575e-27	8.69003e-27	1.09935e-25	2.51033e-24	6.63460e-23

0.100000	6.87187e-27	4.77375e-26	6.06691e-25	1.50719e-23	4.24336e-22
0.0100000	2.41121e-27	1.56091e-26	3.58825e-25	1.98002e-23	7.85838e-22
0.00100000	1.20986e-29	6.09205e-28	1.58977e-25	1.72285e-23	8.10304e-22
0.000100000	2.68410e-31	3.67585e-28	1.47273e-25	1.69555e-23	8.11654e-22
1.00000e-05	2.22758e-32	3.52242e-28	1.46214e-25	1.69286e-23	8.11780e-22
1.00000e-06	2.18606e-33	3.50774e-28	1.46109e-25	1.69259e-23	8.11793e-22
1.00000e-07	2.18195e-34	3.50628e-28	1.46099e-25	1.69256e-23	8.11794e-22
1.00000e-08	2.18154e-35	3.50614e-28	1.46098e-25	1.69256e-23	8.11794e-22
1.00000e-09	2.18150e-36	3.50612e-28	1.46097e-25	1.69256e-23	8.11794e-22

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.28705e-34	3.33292e-33	3.69356e-32	3.20777e-31	2.26212e-30
1.00000e+07	2.28674e-32	3.33244e-31	3.69300e-30	3.20725e-29	2.26170e-28
1.00000e+06	2.28360e-30	3.32767e-29	3.68735e-28	3.20190e-27	2.25755e-26
100000.	2.25273e-28	3.28083e-27	3.63194e-26	3.14963e-25	2.21698e-24
10000.0	1.98500e-26	2.87858e-25	3.16249e-24	2.71413e-23	1.88580e-22
1000.00	9.03615e-25	1.30453e-23	1.40562e-22	1.17132e-21	7.84514e-21
100.000	1.37439e-23	2.01368e-22	2.16418e-21	1.78115e-20	1.17138e-19
10.0000	1.43688e-22	2.11405e-21	2.27251e-20	1.86631e-19	1.22298e-18
1.00000	1.36783e-21	2.00776e-20	2.14694e-19	1.74977e-18	1.13528e-17
0.100000	8.90294e-21	1.29465e-19	1.35035e-18	1.06232e-17	6.60003e-17
0.0100000	1.84820e-20	2.76169e-19	2.85111e-18	2.18013e-17	1.30426e-16
0.00100000	2.01614e-20	3.07236e-19	3.18627e-18	2.43047e-17	1.44562e-16
0.000100000	2.03293e-20	3.10580e-19	3.22328e-18	2.45836e-17	1.46137e-16
1.00000e-05	2.03460e-20	3.10917e-19	3.22702e-18	2.46118e-17	1.46296e-16
1.00000e-06	2.03477e-20	3.10951e-19	3.22739e-18	2.46146e-17	1.46312e-16
1.00000e-07	2.03478e-20	3.10954e-19	3.22743e-18	2.46149e-17	1.46314e-16
1.00000e-08	2.03479e-20	3.10954e-19	3.22744e-18	2.46149e-17	1.46314e-16
1.00000e-09	2.03479e-20	3.10954e-19	3.22744e-18	2.46149e-17	1.46314e-16

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.33829e-29	6.82977e-29	3.07659e-28	1.24630e-27	4.60749e-27
1.00000e+07	1.33802e-27	6.82819e-27	3.07577e-26	1.24593e-25	4.60592e-25
1.00000e+06	1.33528e-25	6.81244e-25	3.06774e-24	1.24223e-23	4.59036e-23
100000.	1.30859e-23	6.65991e-23	2.99032e-22	1.20677e-21	4.44202e-21
10000.0	1.09598e-21	5.47775e-21	2.40897e-20	9.49644e-20	3.40606e-19
1000.00	4.37051e-20	2.08436e-19	8.71383e-19	3.25568e-18	1.10430e-17
100.000	6.38526e-19	2.97356e-18	1.21256e-17	4.41749e-17	1.46135e-16
10.0000	6.63620e-18	3.07416e-17	1.24628e-16	4.51144e-16	1.48215e-15
1.00000	6.08467e-17	2.77664e-16	1.10557e-15	3.91768e-15	1.25542e-14
0.100000	3.36469e-16	1.45200e-15	5.43953e-15	1.80559e-14	5.40032e-14
0.0100000	6.37177e-16	2.62926e-15	9.41331e-15	2.98781e-14	8.55585e-14
0.00100000	7.01059e-16	2.86992e-15	1.01927e-14	3.21005e-14	9.12447e-14
0.000100000	7.08155e-16	2.89652e-15	1.02783e-14	3.23431e-14	9.18611e-14
1.00000e-05	7.08872e-16	2.89920e-15	1.02869e-14	3.23675e-14	9.19232e-14
1.00000e-06	7.08945e-16	2.89947e-15	1.02878e-14	3.23699e-14	9.19294e-14
1.00000e-07	7.08951e-16	2.89950e-15	1.02879e-14	3.23702e-14	9.19301e-14
1.00000e-08	7.08951e-16	2.89950e-15	1.02879e-14	3.23702e-14	9.19301e-14
1.00000e-09	7.08952e-16	2.89950e-15	1.02879e-14	3.23702e-14	9.19301e-14

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.57216e-26	4.99263e-26	1.48427e-25	4.14769e-25	1.09257e-24
1.00000e+07	1.57155e-24	4.99045e-24	1.48354e-23	4.14542e-23	1.09191e-22
1.00000e+06	1.56552e-22	4.96880e-22	1.47633e-21	4.12308e-21	1.08547e-20
100000.	1.50837e-20	4.76508e-20	1.40889e-19	3.91533e-19	1.02579e-18
10000.0	1.12457e-18	3.44894e-18	9.89218e-18	2.66688e-17	6.78350e-17
1000.00	3.44389e-17	9.97492e-17	2.70459e-16	6.90699e-16	1.66915e-15
100.000	4.44776e-16	1.25860e-15	3.33865e-15	8.35510e-15	1.98209e-14
10.0000	4.47758e-15	1.25693e-14	3.30581e-14	8.19843e-14	1.92666e-13
1.00000	3.68546e-14	1.00157e-13	2.54117e-13	6.06096e-13	1.36652e-12
0.100000	1.47550e-13	3.72507e-13	8.77229e-13	1.94223e-12	4.06960e-12
0.0100000	2.24225e-13	5.44160e-13	1.23485e-12	2.64149e-12	5.36190e-12
0.00100000	2.37481e-13	5.72668e-13	1.29200e-12	2.74922e-12	5.55425e-12
0.000100000	2.38908e-13	5.75719e-13	1.29809e-12	2.76062e-12	5.57450e-12
1.00000e-05	2.39052e-13	5.76027e-13	1.29870e-12	2.76177e-12	5.57654e-12
1.00000e-06	2.39066e-13	5.76057e-13	1.29876e-12	2.76188e-12	5.57674e-12
1.00000e-07	2.39067e-13	5.76061e-13	1.29877e-12	2.76189e-12	5.57676e-12
1.00000e-08	2.39067e-13	5.76061e-13	1.29877e-12	2.76189e-12	5.57676e-12
1.00000e-09	2.39067e-13	5.76061e-13	1.29877e-12	2.76189e-12	5.57676e-12

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	2.71898e-24	6.40520e-24	1.43116e-23	1.52575e-21	3.80792e-18
1.00000e+07	2.71722e-22	6.40073e-22	1.43009e-21	1.56312e-19	2.03861e-16
1.00000e+06	2.69982e-20	6.35679e-20	1.41967e-19	1.60763e-17	2.81340e-14
100000.	2.53959e-18	5.95375e-18	1.32439e-17	1.32227e-15	6.48813e-13
10000.0	1.63276e-16	3.72805e-16	8.09283e-16	3.66773e-14	6.86801e-12

1000.00	3.83067e-15	8.37240e-15	1.74677e-14	4.17113e-13	6.83531e-11
100.000	4.47369e-14	9.63372e-14	1.98371e-13	3.88601e-12	5.41664e-10
10.0000	4.30661e-13	9.18317e-13	1.87243e-12	2.53240e-11	2.30933e-09
1.00000	2.92562e-12	5.97000e-12	1.16477e-11	6.80937e-11	4.16571e-09
0.100000	8.11401e-12	1.54642e-11	2.82789e-11	7.41171e-11	4.59362e-09
0.0100000	1.03852e-11	1.92799e-11	3.44343e-11	6.99135e-11	4.62762e-09
0.00100000	1.07125e-11	1.98132e-11	3.52706e-11	6.93086e-11	4.63049e-09
0.000100000	1.07468e-11	1.98688e-11	3.53574e-11	6.92472e-11	4.63077e-09
1.00000e-05	1.07503e-11	1.98744e-11	3.53661e-11	6.92411e-11	4.63079e-09
1.00000e-06	1.07506e-11	1.98750e-11	3.53670e-11	6.92404e-11	4.63079e-09
1.00000e-07	1.07506e-11	1.98751e-11	3.53671e-11	6.92404e-11	4.63079e-09
1.00000e-08	1.07506e-11	1.98751e-11	3.53671e-11	6.92404e-11	4.63079e-09
1.00000e-09	1.07506e-11	1.98751e-11	3.53671e-11	6.92404e-11	4.63079e-09

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	7.63073e-13	6.46834e-10	1.18521e-08	6.67000e-08	3.44177e-07
1.00000e+07	9.36272e-12	5.29025e-09	8.79466e-08	3.68804e-07	1.11146e-06
1.00000e+06	2.03279e-10	1.70233e-08	1.40349e-07	3.94345e-07	1.21491e-06
100000.	5.60554e-10	2.43648e-08	1.42847e-07	5.74876e-07	3.20879e-06
10000.0	7.13066e-10	2.48275e-08	2.94261e-07	2.05076e-06	9.84932e-06
1000.00	4.26108e-09	1.01385e-07	1.02832e-06	5.34534e-06	1.78599e-05
100.000	2.28620e-08	3.24476e-07	2.08468e-06	7.88382e-06	2.13657e-05
10.0000	5.64808e-08	5.19423e-07	2.57247e-06	8.58319e-06	2.19864e-05
1.00000	7.34918e-08	5.73269e-07	2.65873e-06	8.67514e-06	2.20529e-05
0.100000	7.62934e-08	5.80091e-07	2.66811e-06	8.68446e-06	2.20595e-05
0.0100000	7.65784e-08	5.80781e-07	2.66906e-06	8.68545e-06	2.20602e-05
0.00100000	7.66067e-08	5.80850e-07	2.66915e-06	8.68552e-06	2.20602e-05
0.000100000	7.66095e-08	5.80857e-07	2.66916e-06	8.68552e-06	2.20602e-05
1.00000e-05	7.66098e-08	5.80858e-07	2.66916e-06	8.68552e-06	2.20602e-05
1.00000e-06	7.66098e-08	5.80858e-07	2.66916e-06	8.68552e-06	2.20602e-05
1.00000e-07	7.66098e-08	5.80858e-07	2.66916e-06	8.68552e-06	2.20602e-05
1.00000e-08	7.66098e-08	5.80858e-07	2.66916e-06	8.68552e-06	2.20602e-05
1.00000e-09	7.66098e-08	5.80858e-07	2.66916e-06	8.68552e-06	2.20602e-05

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	1.92903e-06	7.92754e-06	2.30785e-05	5.12508e-05	6.24037e-05
1.00000e+07	4.86282e-06	2.66174e-05	0.000110190	0.000286930	0.000445756
1.00000e+06	7.04317e-06	4.06226e-05	0.000157546	0.000390779	0.000649396
100000.	1.63697e-05	6.17003e-05	0.000166207	0.000329804	0.000513412
10000.0	3.27369e-05	8.07784e-05	0.000157950	0.000259188	0.000376156
1000.00	4.36610e-05	8.62566e-05	0.000147018	0.000225765	0.000321382
100.000	4.63440e-05	8.61274e-05	0.000142913	0.000217510	0.000309352
10.0000	4.66302e-05	8.59386e-05	0.000142215	0.000216319	0.000307706
1.00000	4.66540e-05	8.59122e-05	0.000142137	0.000216192	0.000307534
0.100000	4.66562e-05	8.59092e-05	0.000142129	0.000216180	0.000307517
0.0100000	4.66565e-05	8.59091e-05	0.000142129	0.000216178	0.000307516
0.00100000	4.66565e-05	8.59091e-05	0.000142129	0.000216178	0.000307516
0.000100000	4.66565e-05	8.59091e-05	0.000142129	0.000216178	0.000307515
1.00000e-05	4.66565e-05	8.59091e-05	0.000142129	0.000216178	0.000307515
1.00000e-06	4.66565e-05	8.59091e-05	0.000142129	0.000216178	0.000307515
1.00000e-07	4.66565e-05	8.59091e-05	0.000142129	0.000216178	0.000307515
1.00000e-08	4.66565e-05	8.59091e-05	0.000142129	0.000216178	0.000307515
1.00000e-09	4.66565e-05	8.59091e-05	0.000142129	0.000216178	0.000307515

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	4.70032e-05	0.00271312	0.00314422	0.00320077	0.00318157
1.00000e+07	0.000481496	0.00327748	0.00383501	0.00388005	0.00370844
1.00000e+06	0.000830630	0.00285121	0.00337654	0.00313847	0.00279679
100000.	0.000679510	0.00177685	0.00206534	0.00196929	0.00198928
10000.0	0.000501070	0.00100411	0.00128513	0.00150336	0.00177044
1000.00	0.000431428	0.000749297	0.00108111	0.00141393	0.00173814
100.000	0.000416628	0.000701981	0.00104958	0.00140257	0.00173459
10.0000	0.000414641	0.000696002	0.00104597	0.00140138	0.00173423
1.00000	0.000414435	0.000695382	0.00104561	0.00140127	0.00173420
0.100000	0.000414415	0.000695321	0.00104557	0.00140125	0.00173419
0.0100000	0.000414414	0.000695318	0.00104557	0.00140125	0.00173419
0.00100000	0.000414413	0.000695318	0.00104557	0.00140125	0.00173419
0.000100000	0.000414413	0.000695318	0.00104557	0.00140125	0.00173419
1.00000e-05	0.000414413	0.000695318	0.00104557	0.00140125	0.00173419
1.00000e-06	0.000414413	0.000695318	0.00104557	0.00140125	0.00173419
1.00000e-07	0.000414413	0.000695318	0.00104557	0.00140125	0.00173419
1.00000e-08	0.000414413	0.000695318	0.00104557	0.00140125	0.00173419
1.00000e-09	0.000414413	0.000695318	0.00104557	0.00140125	0.00173419

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.00315892	0.00312674	0.00307822	0.00301347	0.00293784

1.00000e+07	0.00347807	0.00326025	0.00309024	0.00297431	0.00290111
1.00000e+06	0.00261238	0.00257193	0.00261003	0.00267367	0.00273213
100000.	0.00213383	0.00231448	0.00248069	0.00261262	0.00270576
10000.0	0.00203962	0.00227515	0.00246451	0.00260619	0.00270346
1000.00	0.00202814	0.00227097	0.00246295	0.00260561	0.00270329
100.000	0.00202698	0.00227056	0.00246283	0.00260558	0.00270328
10.0000	0.00202687	0.00227053	0.00246281	0.00260558	0.00270328
1.00000	0.00202686	0.00227052	0.00246280	0.00260557	0.00270328
0.100000	0.00202686	0.00227052	0.00246280	0.00260557	0.00270328
0.0100000	0.00202686	0.00227052	0.00246280	0.00260557	0.00270328
0.00100000	0.00202686	0.00227052	0.00246280	0.00260557	0.00270328
0.000100000	0.00202686	0.00227052	0.00246280	0.00260557	0.00270328
1.00000e-05	0.00202686	0.00227052	0.00246280	0.00260557	0.00270328
1.00000e-06	0.00202686	0.00227052	0.00246280	0.00260557	0.00270328
1.00000e-07	0.00202686	0.00227052	0.00246280	0.00260557	0.00270328
1.00000e-08	0.00202686	0.00227052	0.00246280	0.00260557	0.00270328
1.00000e-09	0.00202686	0.00227052	0.00246280	0.00260557	0.00270328

Pa\K | 4000.00

1.00000e+08	0.00285810
1.00000e+07	0.00285385
1.00000e+06	0.00277168
100000.	0.00276233
10000.0	0.00276180
1000.00	0.00276176
100.000	0.00276178
10.0000	0.00276178
1.00000	0.00276178
0.100000	0.00276178
0.0100000	0.00276178
0.00100000	0.00276178
0.000100000	0.00276178
1.00000e-05	0.00276178
1.00000e-06	0.00276178
1.00000e-07	0.00276178
1.00000e-08	0.00276178
1.00000e-09	0.00276178

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08	9.61692e-17	7.50018e-16	2.44085e-15	5.68542e-15	1.10807e-14
1.00000e+07	8.82331e-14	7.30189e-13	2.41481e-12	5.61341e-12	1.08296e-11
1.00000e+06	7.88637e-11	5.47778e-10	1.56428e-09	3.20236e-09	5.52103e-09
100000.	2.55245e-08	1.07887e-07	2.36319e-07	4.08180e-07	6.23510e-07
10000.0	2.06010e-06	6.66559e-06	1.26575e-05	1.97643e-05	2.78705e-05
1000.00	7.00164e-05	0.000162203	0.000245068	0.000319569	0.000387314
100.000	0.000563600	0.000677597	0.000675697	0.000656623	0.000640992
10.0000	0.000556746	0.000491369	0.000424410	0.000368221	0.000321770
1.00000	0.000163881	5.75805e-05	2.49876e-05	1.22838e-05	6.58978e-06
0.100000	6.01202e-07	6.44763e-08	2.63114e-08	1.54450e-08	1.04533e-08
0.0100000	2.30808e-09	4.77052e-10	1.81667e-10	9.00239e-11	5.17928e-11
0.00100000	5.72258e-12	6.10998e-13	1.62597e-13	6.27910e-14	2.96302e-14
0.000100000	1.75641e-15	8.98387e-17	1.46566e-17	3.89508e-18	1.36083e-18
1.00000e-05	3.72023e-20	1.03266e-21	1.39301e-22	3.49082e-23	1.21655e-23
1.00000e-06	4.30524e-25	2.01087e-26	4.07350e-27	1.43429e-27	6.75858e-28
1.00000e-07	7.38420e-29	1.29239e-29	5.53279e-30	3.26849e-30	2.25461e-30
1.00000e-08	6.05569e-31	1.99876e-31	1.19353e-31	8.09026e-32	7.31126e-32
1.00000e-09	2.49533e-32	8.71788e-33	8.42499e-33	8.16742e-33	2.51529e-33

Pa\K | 70.0000 80.0000 90.0000 100.0000 110.0000

1.00000e+08	1.93221e-14	3.12403e-14	4.78626e-14	7.04973e-14	1.00847e-13
1.00000e+07	1.86208e-11	2.96283e-11	4.46236e-11	6.45672e-11	9.06820e-11
1.00000e+06	8.58035e-09	1.24519e-08	1.72285e-08	2.30345e-08	3.00340e-08
100000.	8.83411e-07	1.19002e-06	1.54684e-06	1.95907e-06	2.43391e-06
10000.0	3.69013e-05	4.68122e-05	5.75922e-05	6.92658e-05	8.18906e-05
1000.00	0.000449217	0.000505844	0.000557645	0.000605035	0.000648404
100.000	0.000631141	0.000625430	0.000621877	0.000618981	0.000615769
10.0000	0.000282643	0.000249028	0.000219712	0.000193880	0.000170970
1.00000	3.78105e-06	2.29248e-06	1.45760e-06	9.67156e-07	6.67582e-07
0.100000	7.64152e-09	5.87094e-09	4.67290e-09	3.81963e-09	3.18776e-09
0.0100000	3.28133e-11	2.22336e-11	1.58242e-11	1.16887e-11	8.88524e-12
0.00100000	1.58271e-14	9.18858e-15	5.65979e-15	3.64244e-15	2.42424e-15
0.000100000	5.67202e-19	2.67529e-19	1.38278e-19	7.67046e-20	4.50141e-20
1.00000e-05	5.20544e-24	2.56279e-24	1.39707e-24	8.23736e-25	5.17513e-25
1.00000e-06	3.82227e-28	2.45851e-28	1.74384e-28	1.34525e-28	1.12488e-28
1.00000e-07	1.71177e-30	1.42429e-30	1.27336e-30	1.25685e-30	1.27555e-30

1.00000e-08 | 6.81861e-32 5.12397e-32 5.16880e-32 5.66194e-32 5.87338e-32
1.00000e-09 | 3.17862e-33 7.02923e-33 1.35266e-33 1.61954e-33 4.31032e-33

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.41162e-13	1.94437e-13	2.64705e-13	3.57413e-13	4.79971e-13
1.00000e+07	1.24549e-10	1.68223e-10	2.24401e-10	2.96624e-10	3.89558e-10
1.00000e+06	3.84420e-08	4.85359e-08	6.06705e-08	7.52988e-08	9.29955e-08
100000.	2.98085e-06	3.61200e-06	4.34260e-06	5.19157e-06	6.18223e-06
10000.0	9.55553e-05	0.000110377	0.000126498	0.000144086	0.000163332
1000.00	0.000688106	0.000724453	0.000757712	0.000788106	0.000815826
100.000	0.000611673	0.000606404	0.000599849	0.000591996	0.000582895
10.0000	0.000150571	0.000132373	0.000116131	0.000101641	8.87311e-05
1.00000	4.78305e-07	3.55058e-07	2.72561e-07	2.15893e-07	1.75995e-07
0.100000	2.70511e-09	2.32694e-09	2.02421e-09	1.77739e-09	1.57291e-09
0.0100000	6.90759e-12	5.46624e-12	4.38700e-12	3.56052e-12	2.91567e-12
0.00100000	1.65691e-15	1.15724e-15	8.23086e-16	5.94728e-16	4.35861e-16
0.000100000	2.76712e-20	1.76944e-20	1.17123e-20	7.99886e-21	5.62631e-21
1.00000e-05	3.42967e-25	2.38599e-25	1.74120e-25	1.33528e-25	1.08376e-25
1.00000e-06	1.01235e-28	9.91284e-29	1.05164e-28	1.21361e-28	1.51967e-28
1.00000e-07	1.42730e-30	1.68470e-30	2.13166e-30	2.94762e-30	4.24587e-30
1.00000e-08	8.55149e-32	9.85144e-32	1.55507e-31	2.13732e-31	3.57312e-31
1.00000e-09	1.67956e-32	6.11092e-33	3.92565e-33	6.09777e-32	2.28288e-32

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	6.42490e-13	8.58817e-13	1.14797e-12	1.53611e-12	2.05933e-12
1.00000e+07	5.09365e-10	6.64185e-10	8.64770e-10	1.12532e-09	1.46456e-09
1.00000e+06	1.14489e-07	1.40700e-07	1.72792e-07	2.12228e-07	2.60851e-07
100000.	7.34313e-06	8.70910e-06	1.03224e-05	1.22340e-05	1.45051e-05
10000.0	0.000184449	0.000207674	0.000233254	0.000261455	0.000292546
1000.00	0.000841040	0.000863902	0.000884564	0.000903182	0.000919918
100.000	0.000572622	0.000561268	0.000548922	0.000535667	0.000521581
10.0000	7.42524e-05	6.70724e-05	5.80719e-05	5.01414e-05	4.31800e-05
1.00000	1.47223e-07	1.25986e-07	1.09949e-07	9.75712e-08	8.78118e-08
0.100000	1.40111e-09	1.25498e-09	1.12928e-09	1.02008e-09	9.24379e-10
0.0100000	2.40475e-12	1.99483e-12	1.66265e-12	1.39137e-12	1.16854e-12
0.00100000	3.23686e-16	2.43495e-16	1.85575e-16	1.43397e-16	1.12496e-16
0.000100000	4.07313e-21	3.03711e-21	2.33657e-21	1.86094e-21	1.54132e-21
1.00000e-05	9.42214e-26	8.89498e-26	9.26644e-26	1.07835e-25	1.40697e-25
1.00000e-06	2.05382e-28	2.98127e-28	4.61405e-28	7.61835e-28	1.35222e-27
1.00000e-07	6.47713e-30	1.05315e-29	1.83353e-29	3.33753e-29	6.39287e-29
1.00000e-08	4.83064e-31	8.79737e-31	1.52563e-30	1.99173e-30	5.21099e-30
1.00000e-09	1.08014e-32	1.48870e-32	1.09816e-32	1.93147e-31	1.73799e-31

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.76734e-12	3.72886e-12	5.03872e-12	6.82777e-12	9.27644e-12
1.00000e+07	1.90715e-09	2.48552e-09	3.24220e-09	4.23283e-09	5.52999e-09
1.00000e+06	3.20972e-07	3.95483e-07	4.88000e-07	6.03024e-07	7.46149e-07
100000.	1.72089e-05	2.04321e-05	2.42771e-05	2.88639e-05	3.43320e-05
10000.0	0.000326797	0.000364460	0.000405769	0.000450917	0.000500038
1000.00	0.000934944	0.000948438	0.000960582	0.000971551	0.000981502
100.000	0.000506733	0.000491191	0.000475014	0.000458265	0.000441009
10.0000	3.70931e-05	3.17928e-05	2.71966e-05	2.32276e-05	1.98144e-05
1.00000	7.99619e-08	7.35288e-08	6.81660e-08	6.36257e-08	5.97289e-08
0.100000	8.39840e-10	7.64647e-10	6.97373e-10	6.36894e-10	5.82325e-10
0.0100000	9.84798e-13	8.32925e-13	7.07330e-13	6.03582e-13	5.18159e-13
0.00100000	8.97802e-17	7.30894e-17	6.09080e-17	5.21732e-17	4.61573e-17
0.000100000	1.33593e-21	1.22103e-21	1.18792e-21	1.24397e-21	1.41988e-21
1.00000e-05	2.04714e-25	3.29229e-25	5.78876e-25	1.10090e-24	2.24692e-24
1.00000e-06	2.52696e-27	5.06677e-27	1.07755e-26	2.44456e-26	5.86289e-26
1.00000e-07	1.26409e-28	2.83482e-28	6.36909e-28	1.55147e-27	4.08678e-27
1.00000e-08	8.73858e-30	1.74943e-29	3.66607e-29	1.36415e-28	3.98376e-28
1.00000e-09	4.10245e-31	4.95481e-31	5.61208e-31	1.13372e-30	2.43902e-30

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	1.26330e-11	1.72381e-11	2.35571e-11	2.35562e-10	4.52628e-09
1.00000e+07	7.22806e-09	9.44913e-09	1.23504e-08	7.85544e-08	8.29244e-07
1.00000e+06	9.24303e-07	1.14602e-06	1.42179e-06	6.12933e-06	3.94582e-05
100000.	4.08419e-05	4.85771e-05	5.77449e-05	0.000168895	0.000542596
10000.0	0.000553201	0.000610381	0.000671454	0.00108614	0.00150369
1000.00	0.000990594	0.000998934	0.00100662	0.00108575	0.000985489
100.000	0.000423315	0.000405261	0.000386932	0.000308954	0.000168151
10.0000	1.68913e-05	1.43978e-05	1.22789e-05	8.12198e-06	3.95450e-06
1.00000	5.63442e-08	5.33747e-08	5.07476e-08	6.80208e-08	1.00323e-07
0.100000	5.32972e-10	4.88290e-10	4.47860e-10	9.24566e-10	2.93732e-09
0.0100000	4.48244e-13	3.91596e-13	3.46461e-13	3.16373e-12	7.71921e-11
0.00100000	4.23867e-17	4.06007e-17	4.07434e-17	5.78721e-15	2.32384e-12

0.000100000	1.78972e-21	2.51840e-21	3.97565e-21	5.22960e-17	1.29148e-13
1.00000e-05	4.88875e-24	1.12915e-23	2.74880e-23	2.51679e-18	1.05243e-14
1.00000e-06	1.49008e-25	3.96829e-25	1.10385e-24	2.09883e-19	1.00354e-15
1.00000e-07	1.04097e-26	2.95611e-26	8.44449e-26	2.05503e-20	9.89973e-17
1.00000e-08	1.04484e-27	2.05422e-27	7.18485e-27	1.55321e-21	8.80683e-18
1.00000e-09	1.39810e-29	2.28111e-29	6.15486e-29	2.08309e-22	2.65099e-19

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	7.30337e-08	9.64753e-07	1.03748e-05	7.81769e-05	0.000444919
1.00000e+07	6.52026e-06	3.44527e-05	0.000158444	0.000562360	0.00149016
1.00000e+06	0.000154270	0.000305144	0.000451868	0.000713171	0.00103995
100000.	0.000957902	0.000939450	0.000556489	0.000399823	0.000404176
10000.0	0.00150616	0.00104048	0.000487954	0.000295030	0.000285813
1000.00	0.000807659	0.000540070	0.000301212	0.000211602	0.000187035
100.000	0.000128418	0.000132091	0.000108331	7.61371e-05	5.16483e-05
10.0000	8.78947e-06	2.16201e-05	2.07774e-05	1.27465e-05	7.00753e-06
1.00000	7.82599e-07	2.58453e-06	2.35592e-06	1.34489e-06	6.94020e-07
0.100000	5.97453e-08	2.12241e-07	2.02476e-07	1.22627e-07	6.51640e-08
0.0100000	3.52231e-09	1.55969e-08	1.71841e-08	1.13590e-08	6.24675e-09
0.00100000	2.33911e-10	1.26537e-09	1.54782e-09	1.08403e-09	6.08985e-10
0.000100000	1.86411e-11	1.11495e-10	1.45141e-10	1.05359e-10	5.99726e-11
1.00000e-05	1.71420e-12	1.06228e-11	1.41649e-11	1.04250e-11	5.96448e-12
1.00000e-06	1.68136e-13	1.05024e-12	1.40832e-12	1.03984e-12	5.95681e-13
1.00000e-07	1.67164e-14	1.04898e-13	1.40741e-13	1.04012e-13	5.95544e-14
1.00000e-08	1.56862e-15	1.05368e-14	1.39599e-14	1.03871e-14	5.94689e-15
1.00000e-09	1.94896e-16	1.17025e-15	1.35485e-15	1.14306e-15	6.14399e-16

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	0.00120603	0.00157430	0.00153319	0.00139204	0.00120993
1.00000e+07	0.00250133	0.00298827	0.00312321	0.00326509	0.00332725
1.00000e+06	0.00129237	0.00148410	0.00166715	0.00176819	0.00171416
100000.	0.000475466	0.000581710	0.000666255	0.000663759	0.000583180
10000.0	0.000329711	0.000356365	0.000332717	0.000268584	0.000196403
1000.00	0.000165203	0.000130062	9.12139e-05	5.89485e-05	3.65241e-05
100.000	3.38088e-05	2.08427e-05	1.23153e-05	7.13788e-06	4.12822e-06
10.0000	3.90037e-06	2.17782e-06	1.22104e-06	6.90076e-07	3.94320e-07
1.00000	3.73935e-07	2.06314e-07	1.15376e-07	6.52616e-08	3.73655e-08
0.100000	3.55866e-08	1.97697e-08	1.10997e-08	6.29564e-09	3.61223e-09
0.0100000	3.45258e-09	1.92723e-09	1.08466e-09	6.16152e-10	3.53931e-10
0.00100000	3.38980e-10	1.89742e-10	1.06935e-10	6.07971e-11	3.49440e-11
0.000100000	3.35289e-11	1.87998e-11	1.06043e-11	6.03224e-12	3.46836e-12
1.00000e-05	3.34029e-12	1.87424e-12	1.05761e-12	6.01774e-13	3.46071e-13
1.00000e-06	3.33750e-13	1.87300e-13	1.05701e-13	6.01491e-14	3.45921e-14
1.00000e-07	3.33649e-14	1.87297e-14	1.05688e-14	6.01344e-15	3.45936e-15
1.00000e-08	3.33381e-15	1.87532e-15	1.05634e-15	6.01050e-16	3.45317e-16
1.00000e-09	3.42817e-16	1.89888e-16	1.06386e-16	6.01289e-17	3.05115e-17

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.00103267	7.79899e-05	7.38415e-05	7.04191e-05	6.71757e-05
1.00000e+07	0.00315973	3.92505e-05	3.77670e-05	3.52743e-05	3.13919e-05
1.00000e+06	0.00155259	3.81337e-05	3.03853e-05	2.32191e-05	1.70726e-05
100000.	0.000476254	3.08942e-05	1.80166e-05	1.01967e-05	5.58430e-06
10000.0	0.000136463	1.08420e-05	4.46730e-06	1.87960e-06	8.15210e-07
1000.00	2.23122e-05	1.72112e-06	5.77572e-07	2.10826e-07	8.39114e-08
100.000	2.40579e-06	1.89869e-07	5.94199e-08	2.08686e-08	8.16050e-09
10.0000	2.28382e-07	1.89100e-08	5.84881e-09	2.04362e-09	7.97725e-10
1.00000	2.16901e-08	1.86178e-09	5.76173e-10	2.01393e-10	7.86297e-11
0.100000	2.10043e-09	1.84206e-10	5.70551e-11	1.99513e-11	7.79108e-12
0.0100000	2.05976e-10	1.83002e-11	5.66990e-12	1.98308e-12	7.74476e-13
0.00100000	2.03448e-11	1.82267e-12	5.64793e-13	1.97563e-13	7.71634e-14
0.000100000	2.01986e-12	1.82035e-13	5.64121e-14	1.97346e-14	7.70834e-15
1.00000e-05	2.01569e-13	1.81994e-14	5.64002e-15	1.97308e-15	7.70698e-16
1.00000e-06	2.01497e-14	1.81981e-15	5.63974e-16	1.97287e-16	7.70608e-17
1.00000e-07	2.01436e-15	1.81995e-16	5.64128e-17	1.97230e-17	7.70611e-18
1.00000e-08	2.01275e-16	1.81978e-17	5.62714e-18	1.97290e-18	7.69678e-19
1.00000e-09	1.77751e-17	1.73785e-18	5.38422e-19	1.88308e-19	7.35365e-20

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	6.35044e-05	5.91019e-05	5.41273e-05	4.88866e-05	4.36574e-05
1.00000e+07	2.68695e-05	2.23336e-05	1.81494e-05	1.44910e-05	1.14172e-05
1.00000e+06	1.20501e-05	8.22082e-06	5.47838e-06	3.60324e-06	2.35993e-06
100000.	2.99712e-06	1.60858e-06	8.76558e-07	4.89192e-07	2.80714e-07
10000.0	3.69638e-07	1.76768e-07	8.91883e-08	4.72830e-08	2.61966e-08
1000.00	3.63082e-08	1.69425e-08	8.43745e-09	4.43994e-09	2.44805e-09
100.000	3.50607e-09	1.63157e-09	8.11647e-10	4.26881e-10	2.35280e-10
10.0000	3.42602e-10	1.59438e-10	7.93258e-11	4.17264e-11	2.30001e-11

1.00000	3.37755e-11	1.57207e-11	7.82261e-12	4.11523e-12	2.26857e-12
0.100000	3.34705e-12	1.55803e-12	7.75333e-13	4.07908e-13	2.24875e-13
0.0100000	3.32739e-13	1.54896e-13	7.70852e-14	4.05568e-14	2.23594e-14
0.00100000	3.31543e-14	1.54348e-14	7.68177e-15	4.04183e-15	2.22844e-15
0.000100000	3.31214e-15	1.54203e-15	7.67481e-16	4.03831e-16	2.22657e-16
1.00000e-05	3.31159e-16	1.54178e-16	7.67365e-17	4.03772e-17	2.22623e-17
1.00000e-06	3.31164e-17	1.54169e-17	7.67347e-18	4.03739e-18	2.22617e-18
1.00000e-07	3.31190e-18	1.54162e-18	7.67312e-19	4.04020e-19	2.22644e-19
1.00000e-08	3.30054e-19	1.53400e-19	7.63106e-20	4.00971e-20	2.21999e-20
1.00000e-09	3.15911e-20	1.47053e-20	7.31793e-21	3.85012e-21	2.12264e-21

Pa\K | 4000.00

1.00000e+08	3.86425e-05
1.00000e+07	8.91501e-06
1.00000e+06	1.55045e-06
100000.	1.65861e-07
10000.0	1.50917e-08
1000.00	1.40498e-09
100.000	1.34973e-10
10.0000	1.31950e-11
1.00000	1.30154e-12
0.100000	1.29025e-13
0.0100000	1.28295e-14
0.00100000	1.27871e-15
0.000100000	1.27767e-16
1.00000e-05	1.27749e-17
1.00000e-06	1.27749e-18
1.00000e-07	1.27728e-19
1.00000e-08	1.27242e-20
1.00000e-09	1.21798e-21

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08	1.25655e-42	6.80810e-39	7.32674e-37	1.52776e-35	1.41137e-34
1.00000e+07	1.40473e-38	7.08312e-36	7.33977e-34	1.52727e-32	1.41020e-31
1.00000e+06	1.94031e-34	1.03214e-32	7.48741e-31	1.52289e-29	1.39880e-28
100000.	1.98951e-30	4.15967e-29	8.88576e-28	1.48310e-26	1.29630e-25
10000.0	1.71273e-26	2.69775e-25	1.80174e-24	1.29201e-23	8.10698e-23
1000.00	7.15463e-23	7.69341e-22	3.26923e-21	1.10397e-20	3.59036e-20
100.000	9.72177e-20	8.06712e-19	2.89903e-18	7.89665e-18	1.91519e-17
10.0000	5.55690e-17	3.26143e-16	9.42318e-16	2.16741e-15	4.51964e-15
1.00000	1.02342e-14	4.68610e-14	1.21848e-13	2.63476e-13	5.26081e-13
0.100000	1.11109e-12	4.82888e-12	1.22645e-11	2.60612e-11	5.11733e-11
0.0100000	1.04347e-10	4.21138e-10	9.97679e-10	1.97151e-09	3.57103e-09
0.00100000	6.10310e-09	1.72188e-08	3.08243e-08	4.76756e-08	6.87695e-08
0.000100000	7.48169e-08	1.11651e-07	1.38762e-07	1.66312e-07	1.97284e-07
1.00000e-05	1.53078e-07	1.67124e-07	1.83037e-07	2.04398e-07	2.31594e-07
1.00000e-06	1.68105e-07	1.75060e-07	1.88672e-07	2.08944e-07	2.35527e-07
1.00000e-07	1.69731e-07	1.75885e-07	1.89249e-07	2.09407e-07	2.35925e-07
1.00000e-08	1.69895e-07	1.75968e-07	1.89307e-07	2.09454e-07	2.35965e-07
1.00000e-09	1.69911e-07	1.75976e-07	1.89313e-07	2.09458e-07	2.35969e-07

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08	8.20883e-34	3.58191e-33	1.29430e-32	4.11729e-32	1.20079e-31
1.00000e+07	8.19954e-31	3.57686e-30	1.29210e-29	4.10894e-29	1.19791e-28
1.00000e+06	8.10814e-28	3.52719e-27	1.27048e-26	4.02734e-26	1.16985e-25
100000.	7.30408e-25	3.10066e-24	1.08974e-23	3.36501e-23	9.49693e-23
10000.0	3.86204e-22	1.45807e-21	4.64535e-21	1.31143e-20	3.39808e-20
1000.00	1.13169e-19	3.34207e-19	9.14093e-19	2.33277e-18	5.63322e-18
100.000	4.42101e-17	9.97720e-17	2.21783e-16	4.85993e-16	1.05031e-15
10.0000	9.04664e-15	1.79014e-14	3.54841e-14	7.07151e-14	1.41622e-13
1.00000	1.01747e-12	1.95599e-12	3.78187e-12	7.37431e-12	1.44787e-11
0.100000	9.71225e-11	1.82399e-10	3.42231e-10	6.41942e-10	1.19943e-09
0.0100000	6.16939e-09	1.03647e-08	1.70690e-08	2.76024e-08	4.37925e-08
0.00100000	9.53543e-08	1.29044e-07	1.71806e-07	2.25900e-07	2.93858e-07
0.000100000	2.33451e-07	2.76610e-07	3.28762e-07	3.92111e-07	4.69069e-07
1.00000e-05	2.65289e-07	3.06756e-07	3.57720e-07	4.20224e-07	4.96574e-07
1.00000e-06	2.68838e-07	3.10047e-07	3.60832e-07	4.23208e-07	4.99464e-07
1.00000e-07	2.69197e-07	3.10379e-07	3.61146e-07	4.23508e-07	4.99755e-07
1.00000e-08	2.69233e-07	3.10413e-07	3.61177e-07	4.23538e-07	4.99784e-07
1.00000e-09	2.69236e-07	3.10416e-07	3.61180e-07	4.23541e-07	4.99787e-07

Pa\K | 120.000 130.000 140.000 150.000 160.000

1.00000e+08	3.30191e-31	8.73066e-31	2.25038e-30	5.70684e-30	1.43222e-29
1.00000e+07	3.29254e-28	8.70136e-28	2.24143e-27	5.67991e-27	1.42418e-26

1.00000e+06	3.20181e-25	8.41938e-25	2.15595e-24	5.42480e-24	1.34884e-23
100000.	2.51695e-22	6.38316e-22	1.56925e-21	3.77221e-21	8.91508e-21
10000.0	8.28744e-20	1.93717e-19	4.39645e-19	9.77635e-19	2.14337e-18
1000.00	1.30562e-17	2.93979e-17	6.49145e-17	1.41531e-16	3.06059e-16
100.000	2.24260e-15	4.74336e-15	9.96569e-15	2.08442e-14	4.34669e-14
10.0000	2.84676e-13	5.73878e-13	1.15972e-12	2.34856e-12	4.76296e-12
1.00000	2.85475e-11	5.63798e-11	1.11272e-10	2.18938e-10	4.28300e-10
0.100000	2.22191e-09	4.06346e-09	7.31136e-09	1.29094e-08	2.23254e-08
0.0100000	6.80792e-08	1.03624e-07	1.54414e-07	2.25353e-07	3.22338e-07
0.00100000	3.78499e-07	4.82991e-07	6.10924e-07	7.66413e-07	9.54187e-07
0.000100000	5.62314e-07	6.74868e-07	8.10198e-07	9.72317e-07	1.16588e-06
1.00000e-05	5.89376e-07	7.01600e-07	8.36673e-07	9.98575e-07	1.19195e-06
1.00000e-06	5.92196e-07	7.04367e-07	8.39399e-07	1.00127e-06	1.19461e-06
1.00000e-07	5.92480e-07	7.04645e-07	8.39673e-07	1.00154e-06	1.19488e-06
1.00000e-08	5.92508e-07	7.04673e-07	8.39700e-07	1.00157e-06	1.19491e-06
1.00000e-09	5.92511e-07	7.04675e-07	8.39703e-07	1.00157e-06	1.19491e-06

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.56910e-29	8.84607e-29	2.18160e-28	5.35177e-28	1.30481e-27
1.00000e+07	3.54525e-26	8.77570e-26	2.16096e-25	5.29159e-25	1.28743e-24
1.00000e+06	3.32452e-23	8.13387e-23	1.97584e-22	4.76280e-22	1.13811e-21
100000.	2.07814e-20	4.78591e-20	1.08966e-19	2.45304e-19	5.45888e-19
10000.0	4.65194e-18	1.00202e-17	2.14509e-17	4.56681e-17	9.67022e-17
1000.00	6.58201e-16	1.40943e-15	3.00575e-15	6.38114e-15	1.34746e-14
100.000	9.04343e-14	1.87728e-13	3.88639e-13	8.01745e-13	1.64643e-12
10.0000	9.66294e-12	1.95802e-11	3.95490e-11	7.94457e-11	1.58323e-10
1.00000	8.30566e-10	1.59164e-09	3.00503e-09	5.57476e-09	1.01396e-08
0.100000	3.77688e-08	6.24576e-08	1.00932e-07	1.59397e-07	2.46084e-07
0.0100000	4.52309e-07	6.23281e-07	8.44356e-07	1.12572e-06	1.47866e-06
0.00100000	1.17970e-06	1.44920e-06	1.76987e-06	2.14992e-06	2.59862e-06
0.000100000	1.39629e-06	1.66977e-06	1.99351e-06	2.37570e-06	2.82564e-06
1.00000e-05	1.42217e-06	1.69546e-06	2.01898e-06	2.40093e-06	2.85060e-06
1.00000e-06	1.42480e-06	1.69807e-06	2.02157e-06	2.40348e-06	2.85311e-06
1.00000e-07	1.42507e-06	1.69833e-06	2.02182e-06	2.40374e-06	2.85337e-06
1.00000e-08	1.42509e-06	1.69836e-06	2.02185e-06	2.40377e-06	2.85340e-06
1.00000e-09	1.42510e-06	1.69836e-06	2.02185e-06	2.40377e-06	2.85340e-06

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	3.15756e-27	7.56979e-27	1.79302e-26	4.18174e-26	9.56385e-26
1.00000e+07	3.10793e-24	7.43018e-24	1.75454e-23	4.07842e-23	9.29495e-23
1.00000e+06	2.69224e-21	6.29311e-21	1.45020e-20	3.28514e-20	7.29104e-20
100000.	1.20033e-18	2.60626e-18	5.58240e-18	1.17786e-17	2.44335e-17
10000.0	2.03606e-16	4.25971e-16	8.84506e-16	1.81970e-15	3.70040e-15
1000.00	2.82712e-14	5.88636e-14	1.21447e-13	2.47860e-13	4.99304e-13
100.000	3.36155e-12	6.81429e-12	1.36929e-11	2.72243e-11	5.34400e-11
10.0000	3.12219e-10	6.07781e-10	1.16523e-09	2.19565e-09	4.05900e-09
1.00000	1.80517e-08	3.14224e-08	5.34466e-08	8.88118e-08	1.44191e-07
0.100000	3.71597e-07	5.49212e-07	7.95114e-07	1.12853e-06	1.57177e-06
0.0100000	1.91552e-06	2.44975e-06	3.09593e-06	3.86978e-06	4.78821e-06
0.00100000	3.12644e-06	3.74517e-06	4.46792e-06	5.30925e-06	6.28524e-06
0.000100000	3.35384e-06	3.97212e-06	4.69363e-06	5.53299e-06	6.50632e-06
1.00000e-05	3.37850e-06	3.99643e-06	4.71757e-06	5.55653e-06	6.52940e-06
1.00000e-06	3.38098e-06	3.99889e-06	4.71999e-06	5.55890e-06	6.53173e-06
1.00000e-07	3.38124e-06	3.99913e-06	4.72023e-06	5.55913e-06	6.53196e-06
1.00000e-08	3.38126e-06	3.99916e-06	4.72025e-06	5.55915e-06	6.53198e-06
1.00000e-09	3.38127e-06	3.99916e-06	4.72025e-06	5.55916e-06	6.53198e-06

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	2.13576e-25	4.63857e-25	9.76505e-25	1.52529e-22	8.56673e-17
1.00000e+07	2.06830e-22	4.47600e-22	9.38968e-22	1.38705e-19	9.65008e-14
1.00000e+06	1.57982e-19	3.33084e-19	6.81375e-19	5.55314e-17	9.57378e-12
100000.	4.97139e-17	9.89573e-17	1.92219e-16	8.79587e-15	7.28207e-11
10000.0	7.41647e-15	1.46036e-14	2.81623e-14	1.07874e-12	2.62975e-10
1000.00	9.90334e-13	1.92875e-12	3.67853e-12	1.03931e-10	1.44697e-08
100.000	1.03318e-10	1.96236e-10	3.65247e-10	6.68250e-09	4.73786e-07
10.0000	7.35052e-09	1.30233e-08	2.25525e-08	2.02952e-07	5.71015e-06
1.00000	2.28807e-07	3.55045e-07	5.39057e-07	2.20670e-06	2.40374e-05
0.100000	2.15005e-06	2.89136e-06	3.82606e-06	7.95520e-06	4.23956e-05
0.0100000	5.86938e-06	7.13273e-06	8.59898e-06	1.21258e-05	4.80098e-05
0.00100000	7.41349e-06	8.71319e-06	1.02051e-05	1.30294e-05	4.87796e-05
0.000100000	7.63129e-06	8.92713e-06	1.04147e-05	1.31363e-05	4.88605e-05
1.00000e-05	7.65388e-06	8.94920e-06	1.04362e-05	1.31473e-05	4.88686e-05
1.00000e-06	7.65615e-06	8.95142e-06	1.04384e-05	1.31483e-05	4.88695e-05
1.00000e-07	7.65638e-06	8.95164e-06	1.04385e-05	1.31484e-05	4.88695e-05
1.00000e-08	7.65640e-06	8.95166e-06	1.04385e-05	1.31484e-05	4.88695e-05
1.00000e-09	7.65640e-06	8.95167e-06	1.04385e-05	1.31484e-05	4.88696e-05

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	3.72075e-12	5.95583e-10	1.00155e-08	6.72721e-08	4.36445e-07
1.00000e+07	1.63767e-09	6.59631e-08	4.91777e-07	1.93353e-06	5.65969e-06
1.00000e+06	4.52612e-08	1.60616e-06	7.41932e-06	1.67543e-05	2.98064e-05
100000.	6.82147e-08	3.02808e-06	1.61552e-05	3.48631e-05	7.53456e-05
10000.0	3.78284e-08	1.70026e-06	1.83000e-05	8.17541e-05	0.000260142
1000.00	7.17800e-07	1.19430e-05	8.41193e-05	0.000299567	0.000685011
100.000	1.01422e-05	7.73788e-05	0.000284594	0.000637525	0.00105220
10.0000	5.18107e-05	0.000204572	0.000479823	0.000824241	0.00117698
1.00000	0.000108718	0.000285303	0.000547779	0.000866067	0.00119712
0.100000	0.000133467	0.000304488	0.000558585	0.000871332	0.00119936
0.0100000	0.000137771	0.000306926	0.000559769	0.000871881	0.00119959
0.00100000	0.000138251	0.000307179	0.000559889	0.000871932	0.00119961
0.000100000	0.000138300	0.000307204	0.000559900	0.000871939	0.00119961
1.00000e-05	0.000138306	0.000307206	0.000559902	0.000871939	0.00119961
1.00000e-06	0.000138306	0.000307206	0.000559902	0.000871939	0.00119961
1.00000e-07	0.000138306	0.000307206	0.000559902	0.000871939	0.00119961
1.00000e-08	0.000138306	0.000307206	0.000559902	0.000871939	0.00119961
1.00000e-09	0.000138306	0.000307206	0.000559902	0.000871939	0.00119961

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	1.91724e-06	5.66570e-06	1.42554e-05	3.46707e-05	5.50973e-05
1.00000e+07	1.42913e-05	4.10970e-05	0.000116185	0.000252111	0.000376151
1.00000e+06	5.93908e-05	0.000160109	0.000391163	0.000684978	0.000884868
100000.	0.000199865	0.000488638	0.000913444	0.00128317	0.00146087
10000.0	0.000608046	0.00107334	0.00149860	0.00175007	0.00182688
1000.00	0.00114230	0.00154015	0.00180166	0.00192385	0.00194363
100.000	0.00142316	0.00170011	0.00187350	0.00195433	0.00196164
10.0000	0.00148776	0.00172721	0.00188297	0.00195749	0.00196329
1.00000	0.00149619	0.00173039	0.00188410	0.00195792	0.00196355
0.100000	0.00149709	0.00173074	0.00188423	0.00195799	0.00196360
0.0100000	0.00149718	0.00173077	0.00188425	0.00195800	0.00196361
0.00100000	0.00149719	0.00173078	0.00188425	0.00195800	0.00196361
0.000100000	0.00149719	0.00173078	0.00188425	0.00195800	0.00196361
1.00000e-05	0.00149719	0.00173078	0.00188425	0.00195800	0.00196361
1.00000e-06	0.00149719	0.00173078	0.00188425	0.00195800	0.00196361
1.00000e-07	0.00149719	0.00173078	0.00188425	0.00195800	0.00196361
1.00000e-08	0.00149719	0.00173078	0.00188425	0.00195800	0.00196361
1.00000e-09	0.00149719	0.00173078	0.00188425	0.00195800	0.00196361

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	5.08059e-05	0.000384267	0.000395259	0.000391875	0.000389196
1.00000e+07	0.000412442	0.000781319	0.000753320	0.000723984	0.000700243
1.00000e+06	0.000950550	0.00143048	0.00123441	0.00110033	0.000987047
100000.	0.00148137	0.00182889	0.00146550	0.00121980	0.00101776
10000.0	0.00179716	0.00177180	0.00143735	0.00118631	0.000985568
1000.00	0.00189885	0.00170612	0.00142181	0.00117770	0.000979966
100.000	0.00191573	0.00169599	0.00142073	0.00117700	0.000979445
10.0000	0.00191747	0.00169492	0.00142069	0.00117695	0.000979399
1.00000	0.00191773	0.00169484	0.00142069	0.00117695	0.000979395
0.100000	0.00191777	0.00169483	0.00142069	0.00117695	0.000979395
0.0100000	0.00191777	0.00169483	0.00142069	0.00117695	0.000979395
0.00100000	0.00191777	0.00169483	0.00142069	0.00117695	0.000979395
0.000100000	0.00191777	0.00169483	0.00142069	0.00117695	0.000979395
1.00000e-05	0.00191777	0.00169483	0.00142069	0.00117695	0.000979395
1.00000e-06	0.00191777	0.00169483	0.00142069	0.00117695	0.000979395
1.00000e-07	0.00191777	0.00169483	0.00142069	0.00117695	0.000979395
1.00000e-08	0.00191777	0.00169483	0.00142069	0.00117695	0.000979395
1.00000e-09	0.00191777	0.00169483	0.00142069	0.00117695	0.000979395

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.000387484	0.000384330	0.000378549	0.000369548	0.000357134
1.00000e+07	0.000671725	0.000633323	0.000585626	0.000532687	0.000479255
1.00000e+06	0.000867246	0.000749378	0.000644442	0.000556720	0.000485368
100000.	0.000850960	0.000719501	0.000617433	0.000537364	0.000473195
10000.0	0.000828027	0.000705665	0.000609845	0.000533470	0.000471316
1000.00	0.000824864	0.000704032	0.000609048	0.000533097	0.000471155
100.000	0.000824563	0.000703878	0.000608975	0.000533064	0.000471140
10.0000	0.000824538	0.000703863	0.000608968	0.000533060	0.000471138
1.00000	0.000824532	0.000703861	0.000608967	0.000533059	0.000471138
0.100000	0.000824532	0.000703861	0.000608967	0.000533059	0.000471138
0.0100000	0.000824532	0.000703861	0.000608967	0.000533059	0.000471138
0.00100000	0.000824532	0.000703861	0.000608967	0.000533059	0.000471138
0.000100000	0.000824532	0.000703861	0.000608967	0.000533059	0.000471138
1.00000e-05	0.000824532	0.000703861	0.000608967	0.000533059	0.000471138
1.00000e-06	0.000824532	0.000703861	0.000608967	0.000533059	0.000471138

1.00000e-07	0.000824532	0.000703861	0.000608967	0.000533059	0.000471138
1.00000e-08	0.000824532	0.000703861	0.000608967	0.000533059	0.000471138
1.00000e-09	0.000824532	0.000703861	0.000608967	0.000533059	0.000471138

Pa\K	4000.00
1.00000e+08	0.000341605
1.00000e+07	0.000428932
1.00000e+06	0.000427527
100000.	0.000420592
10000.0	0.000419761
1000.00	0.000419700
100.000	0.000419695
10.0000	0.000419695
1.00000	0.000419695
0.100000	0.000419695
0.0100000	0.000419695
0.00100000	0.000419695
0.000100000	0.000419695
1.00000e-05	0.000419695
1.00000e-06	0.000419695
1.00000e-07	0.000419695
1.00000e-08	0.000419695
1.00000e-09	0.000419695

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.32038e-50	1.30420e-47	1.41434e-45	4.13653e-44	6.92723e-43
1.00000e+07	2.37065e-47	1.54398e-45	1.41089e-43	4.07427e-42	6.78521e-41
1.00000e+06	2.56550e-44	3.81951e-43	1.38059e-41	3.53481e-40	5.59425e-39
100000.	1.95702e-41	1.66925e-40	1.27000e-39	1.55820e-38	1.85411e-37
10000.0	5.19433e-39	2.91409e-38	1.17406e-37	5.61745e-37	3.58761e-36
1000.00	4.93920e-37	2.11858e-36	6.75585e-36	2.28658e-35	9.38400e-35
100.000	1.42146e-35	3.80897e-35	9.55936e-35	2.74968e-34	1.00234e-33
10.0000	1.49333e-34	3.81729e-34	9.39231e-34	2.66026e-33	9.62304e-33
1.00000	1.47014e-33	3.67452e-33	8.85905e-33	2.46316e-32	8.76626e-32
0.100000	1.22253e-32	2.56264e-32	5.27291e-32	1.26914e-31	3.96046e-31
0.0100000	2.69126e-32	1.92321e-32	1.80373e-32	2.37295e-32	4.63251e-32
0.00100000	4.21113e-34	5.48587e-35	2.48534e-35	2.36885e-35	4.56739e-35
0.000100000	1.99604e-37	3.85786e-38	2.98400e-38	5.32147e-38	2.47277e-37
1.00000e-05	1.22304e-39	6.46829e-40	8.40130e-40	2.23492e-39	1.50222e-38
1.00000e-06	7.40665e-41	5.01310e-41	7.14847e-41	2.02090e-40	1.42443e-39
1.00000e-07	7.00896e-42	4.88084e-42	7.03056e-42	2.00032e-41	1.41683e-40
1.00000e-08	6.96998e-43	4.86774e-43	7.01884e-43	1.99827e-42	1.41607e-41
1.00000e-09	6.96609e-44	4.86643e-44	7.01767e-44	1.99807e-43	1.41600e-42

Pa\K	70.0000	80.0000	90.0000	100.0000	110.0000
1.00000e+08	9.39183e-42	1.30155e-40	2.31230e-39	6.20193e-38	2.09877e-36
1.00000e+07	9.15728e-40	1.26413e-38	2.24107e-37	6.01826e-36	2.04188e-34
1.00000e+06	7.25033e-38	9.67893e-37	1.68701e-35	4.59158e-34	1.59698e-32
100000.	2.02561e-36	2.40194e-35	4.00725e-34	1.19141e-32	4.69191e-31
10000.0	2.87174e-35	2.90883e-34	4.49066e-33	1.36046e-31	5.72411e-30
1000.00	5.13191e-34	4.04665e-33	5.39308e-32	1.51734e-30	6.31543e-29
100.000	5.12033e-33	3.95346e-32	5.30922e-31	1.52227e-29	6.48994e-28
10.0000	4.92794e-32	3.83527e-31	5.19245e-30	1.49921e-28	6.43719e-27
1.00000	4.42777e-31	3.40696e-30	4.58738e-29	1.34051e-27	5.84954e-26
0.100000	1.77812e-30	1.24237e-29	1.62877e-28	5.59055e-27	2.87733e-25
0.0100000	1.48016e-31	9.10104e-31	2.56447e-29	4.13654e-27	3.82166e-25
0.00100000	2.23657e-34	6.03121e-33	7.76777e-30	3.50618e-27	3.81108e-25
0.000100000	3.94924e-36	3.67583e-34	6.93872e-30	3.44938e-27	3.80849e-25
1.00000e-05	3.19673e-37	3.50878e-35	6.86241e-30	3.44378e-27	3.80822e-25
1.00000e-06	3.12925e-38	3.49267e-36	6.85484e-30	3.44322e-27	3.80819e-25
1.00000e-07	3.12257e-39	3.49107e-37	6.85408e-30	3.44316e-27	3.80819e-25
1.00000e-08	3.12191e-40	3.49091e-38	6.85400e-30	3.44316e-27	3.80819e-25
1.00000e-09	3.12184e-41	3.49089e-39	6.85400e-30	3.44316e-27	3.80819e-25

Pa\K	120.0000	130.0000	140.0000	150.0000	160.0000
1.00000e+08	6.28905e-35	1.40132e-33	2.26764e-32	2.74144e-31	2.57742e-30
1.00000e+07	6.12692e-33	1.36514e-31	2.20679e-30	2.66314e-29	2.49787e-28
1.00000e+06	4.85625e-31	1.08319e-29	1.73849e-28	2.07134e-27	1.90992e-26
100000.	1.52698e-29	3.47281e-28	5.52521e-27	6.42128e-26	5.71944e-25
10000.0	1.94618e-28	4.51114e-27	7.21309e-26	8.36535e-25	7.41094e-24
1000.00	2.16559e-27	5.07396e-26	8.20556e-25	9.62713e-24	8.62743e-23
100.000	2.26168e-26	5.35333e-25	8.72090e-24	1.02857e-22	9.25000e-22
10.0000	2.25226e-25	5.34062e-24	8.70511e-23	1.02635e-21	9.21952e-21
1.00000	2.05816e-24	4.87175e-23	7.89121e-22	9.21448e-21	8.17233e-20

0.100000	1.07662e-23	2.56736e-22	4.08133e-21	4.60744e-20	3.91114e-19
0.0100000	1.70443e-23	4.29131e-22	6.87834e-21	7.66535e-20	6.35554e-19
0.00100000	1.78040e-23	4.55977e-22	7.34905e-21	8.19076e-20	6.77364e-19
0.000100000	1.78785e-23	4.58760e-22	7.39883e-21	8.24675e-20	6.81827e-19
1.00000e-05	1.78860e-23	4.59040e-22	7.40384e-21	8.25238e-20	6.82276e-19
1.00000e-06	1.78867e-23	4.59068e-22	7.40434e-21	8.25294e-20	6.82321e-19
1.00000e-07	1.78868e-23	4.59071e-22	7.40439e-21	8.25300e-20	6.82325e-19
1.00000e-08	1.78868e-23	4.59071e-22	7.40439e-21	8.25301e-20	6.82326e-19
1.00000e-09	1.78868e-23	4.59071e-22	7.40439e-21	8.25301e-20	6.82326e-19

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.95766e-29	1.24152e-28	6.75617e-28	3.22544e-27	1.37472e-26
1.00000e+07	1.89170e-27	1.19553e-26	6.47997e-26	3.07960e-25	1.30600e-24
1.00000e+06	1.41687e-25	8.74371e-25	4.61431e-24	2.12969e-23	8.75253e-23
100000.	4.07380e-24	2.40456e-23	1.21101e-22	5.32890e-22	2.08827e-21
10000.0	5.24407e-23	3.07529e-22	1.54006e-21	6.74698e-21	2.63636e-20
1000.00	6.17311e-22	3.65799e-21	1.84916e-20	8.16738e-20	3.21283e-19
100.000	6.63123e-21	3.93134e-20	1.98576e-19	8.75425e-19	3.43420e-18
10.0000	6.59701e-20	3.90084e-19	1.96372e-18	8.62112e-18	3.36515e-17
1.00000	5.75572e-19	3.33886e-18	1.64317e-17	7.02631e-17	2.66138e-16
0.100000	2.61709e-18	1.43409e-17	6.63659e-17	2.65918e-16	9.41460e-16
0.0100000	4.13132e-18	2.19357e-17	9.82743e-17	3.81276e-16	1.30819e-15
0.00100000	4.38590e-18	2.31824e-17	1.03370e-16	3.99177e-16	1.36345e-15
0.000100000	4.41304e-18	2.33150e-17	1.03911e-16	4.01068e-16	1.36927e-15
1.00000e-05	4.41577e-18	2.33283e-17	1.03965e-16	4.01258e-16	1.36986e-15
1.00000e-06	4.41605e-18	2.33297e-17	1.03970e-16	4.01277e-16	1.36992e-15
1.00000e-07	4.41607e-18	2.33298e-17	1.03971e-16	4.01279e-16	1.36992e-15
1.00000e-08	4.41608e-18	2.33298e-17	1.03971e-16	4.01279e-16	1.36992e-15
1.00000e-09	4.41608e-18	2.33298e-17	1.03971e-16	4.01279e-16	1.36992e-15

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	5.30217e-26	1.86960e-25	6.07363e-25	1.82863e-24	5.12691e-24
1.00000e+07	5.00976e-24	1.75633e-23	5.67163e-23	1.69722e-22	4.72939e-22
1.00000e+06	3.24865e-22	1.10105e-21	3.43666e-21	9.94421e-21	2.68179e-20
100000.	7.39911e-21	2.39874e-20	7.18131e-20	1.99959e-19	5.20744e-19
10000.0	9.32946e-20	3.02576e-19	9.07633e-19	2.53584e-18	6.63459e-18
1000.00	1.14282e-18	3.72045e-18	1.11872e-17	3.12962e-17	8.19158e-17
100.000	1.21744e-17	3.94788e-17	1.18223e-16	3.29356e-16	8.58552e-16
10.0000	1.18606e-16	3.82096e-16	1.13598e-15	3.14027e-15	8.11970e-15
1.00000	9.06970e-16	2.81617e-15	8.04873e-15	2.13499e-14	5.29171e-14
0.100000	2.99448e-15	8.67433e-15	2.31434e-14	5.74012e-14	1.33362e-13
0.0100000	4.03786e-15	1.13700e-14	2.95436e-14	7.15081e-14	1.62474e-13
0.00100000	4.19064e-15	1.17536e-14	3.04305e-14	7.34136e-14	1.66312e-13
0.000100000	4.20666e-15	1.17937e-14	3.05228e-14	7.36112e-14	1.66708e-13
1.00000e-05	4.20827e-15	1.17978e-14	3.05320e-14	7.36311e-14	1.66749e-13
1.00000e-06	4.20842e-15	1.17982e-14	3.05330e-14	7.36330e-14	1.66753e-13
1.00000e-07	4.20844e-15	1.17982e-14	3.05331e-14	7.36332e-14	1.66753e-13
1.00000e-08	4.20844e-15	1.17982e-14	3.05331e-14	7.36332e-14	1.66753e-13
1.00000e-09	4.20844e-15	1.17982e-14	3.05331e-14	7.36332e-14	1.66753e-13

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	1.34403e-23	3.30688e-23	7.66352e-23	1.30288e-20	1.77878e-17
1.00000e+07	1.23230e-21	3.01379e-21	6.94303e-21	7.94122e-19	4.35068e-16
1.00000e+06	6.77080e-20	1.60668e-19	3.59643e-19	1.75848e-17	1.40786e-14
100000.	1.27414e-18	2.94022e-18	6.42074e-18	2.96034e-16	1.77789e-13
10000.0	1.63254e-17	3.79175e-17	8.33940e-17	3.92846e-15	1.04020e-12
1000.00	2.01519e-16	4.67735e-16	1.02773e-15	3.84103e-14	9.26533e-12
100.000	2.10388e-15	4.86536e-15	1.06542e-14	3.41453e-13	6.87513e-11
10.0000	1.97322e-14	4.52502e-14	9.82644e-14	1.93170e-12	2.54870e-10
1.00000	1.23243e-13	2.70979e-13	5.64782e-13	3.90423e-12	3.97657e-10
0.100000	2.92085e-13	6.06205e-13	1.19748e-12	3.48840e-12	4.17886e-10
0.0100000	3.48734e-13	7.10794e-13	1.38164e-12	3.24815e-12	4.18852e-10
0.00100000	3.56035e-13	7.23993e-13	1.40443e-12	3.22205e-12	4.18924e-10
0.000100000	3.56788e-13	7.25348e-13	1.40676e-12	3.21945e-12	4.18930e-10
1.00000e-05	3.56863e-13	7.25484e-13	1.40700e-12	3.21920e-12	4.18931e-10
1.00000e-06	3.56871e-13	7.25499e-13	1.40702e-12	3.21917e-12	4.18931e-10
1.00000e-07	3.56872e-13	7.25499e-13	1.40702e-12	3.21917e-12	4.18931e-10
1.00000e-08	3.56872e-13	7.25499e-13	1.40702e-12	3.21917e-12	4.18931e-10
1.00000e-09	3.56872e-13	7.25499e-13	1.40702e-12	3.21917e-12	4.18931e-10

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	6.85992e-13	4.33812e-10	7.32002e-09	3.97088e-08	2.03822e-07
1.00000e+07	4.45423e-12	2.42891e-09	3.99640e-08	1.67565e-07	5.14615e-07
1.00000e+06	8.33045e-11	7.16289e-09	5.98395e-08	1.64955e-07	4.79581e-07
100000.	2.11554e-10	9.71094e-09	5.50127e-08	1.98462e-07	1.07731e-06
10000.0	1.72358e-10	7.29407e-09	8.56076e-08	6.01563e-07	3.01722e-06

1000.00	7.71098e-10	2.22378e-08	2.52965e-07	1.42482e-06	5.10200e-06
100.000	3.75209e-09	6.35346e-08	4.67304e-07	1.97496e-06	5.88480e-06
10.0000	8.25545e-09	9.40384e-08	5.51402e-07	2.10404e-06	6.00314e-06
1.00000	1.00480e-08	1.01024e-07	5.64171e-07	2.11905e-06	6.01466e-06
0.100000	1.02874e-08	1.01811e-07	5.65455e-07	2.12050e-06	6.01578e-06
0.0100000	1.03102e-08	1.01888e-07	5.65582e-07	2.12065e-06	6.01590e-06
0.00100000	1.03125e-08	1.01896e-07	5.65595e-07	2.12067e-06	6.01591e-06
0.000100000	1.03128e-08	1.01897e-07	5.65596e-07	2.12067e-06	6.01591e-06
1.00000e-05	1.03128e-08	1.01897e-07	5.65596e-07	2.12067e-06	6.01591e-06
1.00000e-06	1.03128e-08	1.01897e-07	5.65596e-07	2.12067e-06	6.01591e-06
1.00000e-07	1.03128e-08	1.01897e-07	5.65596e-07	2.12067e-06	6.01591e-06
1.00000e-08	1.03128e-08	1.01897e-07	5.65596e-07	2.12067e-06	6.01591e-06
1.00000e-09	1.03128e-08	1.01897e-07	5.65596e-07	2.12067e-06	6.01591e-06

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	1.04459e-06	3.31936e-06	8.58599e-06	2.18609e-05	3.69791e-05
1.00000e+07	2.38984e-06	1.21825e-05	4.38181e-05	0.000109338	0.000183922
1.00000e+06	2.87754e-06	1.71707e-05	6.33583e-05	0.000147882	0.000245422
100000.	5.78476e-06	2.30347e-05	6.30139e-05	0.000123673	0.000192822
10000.0	1.05719e-05	2.75024e-05	5.59959e-05	9.44854e-05	0.000140797
1000.00	1.33281e-05	2.80260e-05	5.04482e-05	8.11277e-05	0.000120174
100.000	1.38644e-05	2.76589e-05	4.87295e-05	7.80018e-05	0.000115757
10.0000	1.39037e-05	2.75586e-05	4.84604e-05	7.75655e-05	0.000115163
1.00000	1.39058e-05	2.75462e-05	4.84310e-05	7.75194e-05	0.000115101
0.100000	1.39060e-05	2.75450e-05	4.84281e-05	7.75147e-05	0.000115095
0.0100000	1.39061e-05	2.75448e-05	4.84278e-05	7.75141e-05	0.000115094
0.00100000	1.39061e-05	2.75448e-05	4.84277e-05	7.75141e-05	0.000115094
0.000100000	1.39061e-05	2.75448e-05	4.84277e-05	7.75141e-05	0.000115094
1.00000e-05	1.39061e-05	2.75448e-05	4.84277e-05	7.75141e-05	0.000115094
1.00000e-06	1.39061e-05	2.75448e-05	4.84277e-05	7.75141e-05	0.000115094
1.00000e-07	1.39061e-05	2.75448e-05	4.84277e-05	7.75141e-05	0.000115094
1.00000e-08	1.39061e-05	2.75448e-05	4.84277e-05	7.75141e-05	0.000115094
1.00000e-09	1.39061e-05	2.75448e-05	4.84277e-05	7.75141e-05	0.000115094

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	3.83329e-05	0.000878194	0.00109694	0.00112769	0.00110874
1.00000e+07	0.000222167	0.000945835	0.00123396	0.00125314	0.00120009
1.00000e+06	0.000330659	0.000839105	0.00110685	0.00107712	0.00102890
100000.	0.000264175	0.000592707	0.000768568	0.000794134	0.000855109
10000.0	0.000194127	0.000387772	0.000539865	0.000664271	0.000799641
1000.00	0.000167204	0.000312384	0.000474352	0.000637038	0.000790721
100.000	0.000161596	0.000297508	0.000463738	0.000633443	0.000789710
10.0000	0.000160852	0.000295576	0.000462498	0.000633062	0.000789609
1.00000	0.000160776	0.000295376	0.000462372	0.000633023	0.000789599
0.100000	0.000160768	0.000295356	0.000462363	0.000633020	0.000789599
0.0100000	0.000160767	0.000295354	0.000462359	0.000633020	0.000789599
0.00100000	0.000160767	0.000295354	0.000462359	0.000633020	0.000789599
0.000100000	0.000160767	0.000295354	0.000462359	0.000633020	0.000789599
1.00000e-05	0.000160767	0.000295354	0.000462359	0.000633020	0.000789599
1.00000e-06	0.000160767	0.000295354	0.000462359	0.000633020	0.000789599
1.00000e-07	0.000160767	0.000295354	0.000462359	0.000633020	0.000789599
1.00000e-08	0.000160767	0.000295354	0.000462359	0.000633020	0.000789599
1.00000e-09	0.000160767	0.000295354	0.000462359	0.000633020	0.000789599

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.00108729	0.00107003	0.00105814	0.00105086	0.00104600
1.00000e+07	0.00115777	0.00113950	0.00113923	0.00114599	0.00115045
1.00000e+06	0.00103356	0.00107019	0.00111267	0.00114557	0.00116282
100000.	0.000945213	0.00103164	0.00109868	0.00114228	0.00116361
10000.0	0.000924361	0.00102450	0.00109656	0.00114189	0.00116377
1000.00	0.000921623	0.00102371	0.00109637	0.00114187	0.00116380
100.000	0.000921345	0.00102363	0.00109635	0.00114187	0.00116380
10.0000	0.000921317	0.00102362	0.00109635	0.00114188	0.00116381
1.00000	0.000921315	0.00102362	0.00109635	0.00114187	0.00116381
0.100000	0.000921315	0.00102362	0.00109635	0.00114187	0.00116381
0.0100000	0.000921315	0.00102362	0.00109635	0.00114187	0.00116381
0.00100000	0.000921315	0.00102362	0.00109635	0.00114187	0.00116381
0.000100000	0.000921315	0.00102362	0.00109635	0.00114187	0.00116381
1.00000e-05	0.000921315	0.00102362	0.00109635	0.00114187	0.00116381
1.00000e-06	0.000921315	0.00102362	0.00109635	0.00114187	0.00116381
1.00000e-07	0.000921315	0.00102362	0.00109635	0.00114187	0.00116381
1.00000e-08	0.000921315	0.00102362	0.00109635	0.00114187	0.00116381
1.00000e-09	0.000921315	0.00102362	0.00109635	0.00114187	0.00116381

Pa\K	4000.00
1.00000e+08	0.00104072

1.00000e+07	0.00114707
1.00000e+06	0.00116383
100000.	0.00116586
10000.0	0.00116614
1000.00	0.00116618
100.000	0.00116618
10.0000	0.00116618
1.00000	0.00116618
0.100000	0.00116618
0.0100000	0.00116618
0.00100000	0.00116618
0.000100000	0.00116618
1.00000e-05	0.00116618
1.00000e-06	0.00116618
1.00000e-07	0.00116618
1.00000e-08	0.00116618
1.00000e-09	0.00116618

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	6.93617e-13	2.83495e-12	6.34237e-12	1.12575e-11	1.76747e-11
1.00000e+07	6.93070e-11	2.83045e-10	6.32736e-10	1.12222e-09	1.76057e-09
1.00000e+06	6.87635e-09	2.78594e-08	6.18000e-08	1.08779e-07	1.69365e-07
100000.	6.36506e-07	2.39135e-06	4.94409e-06	8.13836e-06	1.18779e-05
10000.0	3.30722e-05	7.69156e-05	0.000110924	0.000136508	0.000155741
1000.00	0.000175760	0.000143149	0.000108948	8.51113e-05	6.85354e-05
100.000	2.64523e-05	8.60624e-06	4.03910e-06	2.22291e-06	1.33880e-06
10.0000	1.63463e-07	1.15143e-08	1.95386e-09	5.12214e-10	1.76514e-10
1.00000	6.91017e-12	1.08725e-12	4.44156e-13	2.29809e-13	1.37388e-13
0.100000	2.55699e-14	9.29706e-15	6.42257e-15	5.28027e-15	4.70388e-15
0.0100000	2.80830e-15	2.18345e-15	1.99992e-15	1.92603e-15	1.89810e-15
0.00100000	1.45979e-15	1.17012e-15	9.80352e-16	8.37089e-16	7.22153e-16
0.000100000	3.29908e-16	1.07603e-16	4.70047e-17	2.41444e-17	1.37672e-17
1.00000e-05	1.97196e-18	2.31100e-19	6.59341e-20	2.70631e-20	1.35436e-20
1.00000e-06	1.66776e-21	2.24381e-22	7.87934e-23	3.99071e-23	2.45297e-23
1.00000e-07	6.72069e-24	2.50588e-24	1.54901e-24	1.13122e-24	8.98546e-25
1.00000e-08	4.22190e-25	2.05769e-25	1.37684e-25	1.04256e-25	8.45316e-26
1.00000e-09	4.10366e-26	2.03122e-26	1.36539e-26	1.03621e-26	8.41301e-27

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	2.57154e-11	3.55335e-11	4.73309e-11	6.13745e-11	7.80145e-11
1.00000e+07	2.55950e-09	3.53390e-09	4.70331e-09	6.09364e-09	7.73883e-09
1.00000e+06	2.44346e-07	3.34757e-07	4.41996e-07	5.67947e-07	7.15099e-07
100000.	1.60905e-05	2.07211e-05	2.57317e-05	3.11002e-05	3.68186e-05
10000.0	0.000170062	0.000180477	0.000187736	0.000192428	0.000195028
1000.00	5.65608e-05	4.75609e-05	4.05630e-05	3.49685e-05	3.03946e-05
100.000	8.54454e-07	5.67665e-07	3.88286e-07	2.71474e-07	1.93049e-07
10.0000	7.41425e-11	3.64264e-11	2.03777e-11	1.27023e-11	8.64812e-12
1.00000	9.16130e-14	6.66723e-14	5.20739e-14	4.30415e-14	3.72084e-14
0.100000	4.38646e-15	4.21178e-15	4.12631e-15	4.10212e-15	4.12335e-15
0.0100000	1.89417e-15	1.90415e-15	1.92244e-15	1.94538e-15	1.97030e-15
0.00100000	6.26684e-16	5.45595e-16	4.75695e-16	4.14874e-16	3.61677e-16
0.000100000	8.44970e-18	5.47745e-18	3.70303e-18	2.58774e-18	1.85732e-18
1.00000e-05	7.68236e-21	4.75040e-21	3.12801e-21	2.16040e-21	1.54909e-21
1.00000e-06	1.69917e-23	1.27556e-23	1.01384e-23	8.40567e-24	7.19728e-24
1.00000e-07	7.51634e-25	6.51311e-25	5.78970e-25	5.24686e-25	4.82739e-25
1.00000e-08	7.16486e-26	6.26557e-26	5.60705e-26	5.10734e-26	4.71790e-26
1.00000e-09	7.13729e-27	6.24554e-27	5.59189e-27	5.09551e-27	4.70845e-27

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	9.77034e-11	1.21021e-10	1.48703e-10	1.81686e-10	2.21148e-10
1.00000e+07	9.68274e-09	1.19815e-08	1.47061e-08	1.79467e-08	2.18166e-08
1.00000e+06	8.86650e-07	1.08664e-06	1.32011e-06	1.59328e-06	1.91379e-06
100000.	4.28910e-05	4.93303e-05	5.61565e-05	6.33948e-05	7.10740e-05
10000.0	0.000195922	0.000195426	0.000193800	0.000191255	0.000187966
1000.00	2.65871e-05	2.33703e-05	2.06191e-05	1.82419e-05	1.61699e-05
100.000	1.39134e-07	1.01371e-07	7.45200e-08	5.51928e-08	4.11396e-08
10.0000	6.31244e-12	4.85993e-12	3.89451e-12	3.21553e-12	2.71532e-12
1.00000	3.33207e-14	3.06762e-14	2.88634e-14	2.76319e-14	2.68242e-14
0.100000	4.18034e-15	4.26701e-15	4.37928e-15	4.51443e-15	4.67054e-15
0.0100000	1.99507e-15	2.01791e-15	2.03729e-15	2.05189e-15	2.06066e-15
0.00100000	3.15038e-16	2.74132e-16	2.38287e-16	2.06925e-16	1.79537e-16
0.000100000	1.36270e-18	1.01839e-18	7.73124e-19	5.94953e-19	4.63327e-19
1.00000e-05	1.14495e-21	8.67831e-22	6.72048e-22	5.30255e-22	4.25410e-22
1.00000e-06	6.32071e-24	5.66559e-24	5.16504e-24	4.77669e-24	4.47271e-24
1.00000e-07	4.49637e-25	4.23143e-25	4.01773e-25	3.84515e-25	3.70658e-25

1.00000e-08	4.40859e-26	4.15981e-26	3.95844e-26	3.79545e-26	3.66447e-26
1.00000e-09	4.40089e-27	4.15343e-27	3.95310e-27	3.79092e-27	3.66059e-27

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.68583e-10	3.25875e-10	3.95405e-10	4.80179e-10	5.83989e-10
1.00000e+07	2.64586e-08	3.20524e-08	3.88238e-08	4.70564e-08	5.71063e-08
1.00000e+06	2.29097e-06	2.73611e-06	3.26287e-06	3.88764e-06	4.62997e-06
100000.	7.92245e-05	8.78768e-05	9.70601e-05	0.000106800	0.000117117
10000.0	0.000184078	0.000179712	0.000174969	0.000169932	0.000164674
1000.00	1.43512e-05	1.27450e-05	1.13199e-05	1.00506e-05	8.91673e-06
100.000	3.08341e-08	2.32228e-08	1.75667e-08	1.33414e-08	1.01704e-08
10.0000	2.33296e-12	2.03227e-12	1.79083e-12	1.59405e-12	1.43210e-12
1.00000	2.63395e-14	2.61114e-14	2.60967e-14	2.62671e-14	2.66045e-14
0.100000	4.84626e-15	5.04055e-15	5.25261e-15	5.48172e-15	5.72718e-15
0.0100000	2.06278e-15	2.05769e-15	2.04510e-15	2.02497e-15	1.99750e-15
0.00100000	1.55666e-16	1.34905e-16	1.16880e-16	1.01259e-16	8.77410e-17
0.000100000	3.64658e-19	2.89741e-19	2.32214e-19	1.87592e-19	1.52669e-19
1.00000e-05	3.46511e-22	2.86249e-22	2.39641e-22	2.03218e-22	1.74512e-22
1.00000e-06	4.23429e-24	4.04841e-24	3.90600e-24	3.80068e-24	3.72807e-24
1.00000e-07	3.59704e-25	3.51299e-25	3.45199e-25	3.41245e-25	3.39344e-25
1.00000e-08	3.56101e-26	3.48190e-26	3.42496e-26	3.38876e-26	3.37255e-26
1.00000e-09	3.55767e-27	3.47899e-27	3.42240e-27	3.38651e-27	3.37055e-27

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	7.11622e-10	8.69123e-10	1.06411e-09	1.30620e-09	1.60751e-09
1.00000e+07	6.94195e-08	8.45551e-08	1.03212e-07	1.26266e-07	1.54805e-07
1.00000e+06	5.51306e-06	6.56427e-06	7.81558e-06	9.30418e-06	1.10729e-05
100000.	0.000128023	0.000139523	0.000151608	0.000164259	0.000177440
10000.0	0.000159252	0.000153719	0.000148113	0.000142469	0.000136817
1000.00	7.90204e-06	6.99291e-06	6.17806e-06	5.44792e-06	4.79426e-06
100.000	7.78075e-09	5.97343e-09	4.60194e-09	3.55797e-09	2.76102e-09
10.0000	1.29809e-12	1.18699e-12	1.09501e-12	1.01925e-12	9.57408e-13
1.00000	2.70988e-14	2.77448e-14	2.85421e-14	2.94934e-14	3.06047e-14
0.100000	5.98829e-15	6.26426e-15	6.55422e-15	6.85725e-15	7.17235e-15
0.0100000	1.96312e-15	1.92242e-15	1.87614e-15	1.82510e-15	1.77022e-15
0.00100000	7.60595e-17	6.59764e-17	5.72809e-17	4.97879e-17	4.33344e-17
0.000100000	1.25112e-19	1.03208e-19	8.56799e-20	7.15672e-20	6.01405e-20
1.00000e-05	1.51747e-22	1.33618e-22	1.19161e-22	1.07661e-22	9.85736e-23
1.00000e-06	3.68523e-24	3.67045e-24	3.68299e-24	3.72296e-24	3.79134e-24
1.00000e-07	3.39465e-25	3.41629e-25	3.45909e-25	3.52435e-25	3.61391e-25
1.00000e-08	3.37609e-26	3.39970e-26	3.44417e-26	3.51084e-26	3.60158e-26
1.00000e-09	3.37431e-27	3.39810e-27	3.44273e-27	3.50951e-27	3.60038e-27

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	1.98329e-09	2.45271e-09	3.03980e-09	1.29709e-08	1.09688e-07
1.00000e+07	1.90187e-07	2.34097e-07	2.88614e-07	1.14865e-06	7.99224e-06
1.00000e+06	1.31709e-05	1.56533e-05	1.85825e-05	5.06046e-05	0.000173069
100000.	0.000191104	0.000205184	0.000219601	0.000294254	0.000358766
10000.0	0.000131178	0.000125573	0.000120016	9.53962e-05	4.91154e-05
1000.00	4.20989e-06	3.68840e-06	3.22407e-06	2.01522e-06	4.89783e-07
100.000	2.15096e-09	1.68273e-09	1.32243e-09	1.60359e-09	4.01604e-10
10.0000	9.07645e-13	8.68475e-13	8.38696e-13	5.64540e-12	9.57996e-12
1.00000	3.18839e-14	3.33419e-14	3.49915e-14	7.75292e-13	1.58772e-12
0.100000	7.49853e-15	7.83482e-15	8.18036e-15	2.10899e-13	2.96577e-13
0.0100000	1.71239e-15	1.65253e-15	1.59150e-15	3.14415e-14	2.18705e-14
0.00100000	3.77784e-17	3.29960e-17	2.88795e-17	6.23245e-16	2.77024e-16
0.000100000	5.08408e-20	4.32364e-20	3.69917e-20	3.40109e-18	3.00588e-18
1.00000e-05	9.14987e-23	8.61343e-23	8.22628e-23	9.69378e-20	1.92746e-19
1.00000e-06	3.88996e-24	4.02156e-24	4.18992e-24	8.50492e-21	1.85959e-20
1.00000e-07	3.73030e-25	3.87679e-25	4.05761e-25	8.40695e-22	1.85305e-21
1.00000e-08	3.71897e-26	3.86631e-26	4.04781e-26	8.39659e-23	1.85232e-22
1.00000e-09	3.71786e-27	3.86527e-27	4.04685e-27	8.39539e-24	1.85224e-23

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	9.34658e-07	7.00417e-06	3.53628e-05	0.000102119	0.000257663
1.00000e+07	4.46762e-05	0.000163230	0.000362912	0.000588114	0.000865619
1.00000e+06	0.000400454	0.000619468	0.000734502	0.000844614	0.000949669
100000.	0.000329936	0.000253581	0.000199970	0.000202548	0.000227224
10000.0	2.22137e-05	1.05461e-05	7.13954e-06	9.07000e-06	1.62191e-05
1000.00	1.33852e-07	6.16588e-08	8.09715e-08	3.10678e-07	1.44774e-06
100.000	3.40861e-10	8.40875e-10	4.32069e-09	3.47341e-08	2.12275e-07
10.0000	2.48824e-11	9.72187e-11	5.91907e-10	4.69436e-09	2.54184e-08
1.00000	3.91886e-12	1.29121e-11	6.40381e-11	4.36083e-10	2.24231e-09
0.100000	4.60924e-13	1.02085e-12	4.12818e-12	3.10440e-11	1.89272e-10
0.0100000	1.99366e-14	3.56165e-14	2.08629e-13	2.49010e-12	1.78729e-11
0.00100000	2.68698e-16	1.16023e-15	1.57675e-14	2.37245e-13	1.77117e-12

0.000100000	9.87944e-18	9.32820e-17	1.52460e-15	2.35971e-14	1.76942e-13
1.00000e-05	8.93241e-19	9.15057e-18	1.51961e-16	2.35843e-15	1.76924e-14
1.00000e-06	8.84787e-20	9.12960e-19	1.51903e-17	2.35829e-16	1.76923e-15
1.00000e-07	8.83689e-21	9.12642e-20	1.51895e-18	2.35827e-17	1.76922e-16
1.00000e-08	8.83551e-22	9.12601e-21	1.51893e-19	2.35827e-18	1.76922e-17
1.00000e-09	8.83534e-23	9.12601e-22	1.51893e-20	2.35827e-19	1.76922e-18

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	0.000516356	0.000815065	0.00102659	0.00107506	0.000982032
1.00000e+07	0.000937924	0.000752374	0.000616259	0.000580129	0.000567498
1.00000e+06	0.000877451	0.000633213	0.000444879	0.000344116	0.000275616
100000.	0.000235608	0.000201127	0.000152654	0.000110547	7.65872e-05
10000.0	2.85220e-05	3.48814e-05	2.95839e-05	2.06240e-05	1.32108e-05
1000.00	4.13202e-06	5.64938e-06	4.59068e-06	2.99064e-06	1.81776e-06
100.000	5.92653e-07	7.35347e-07	5.52871e-07	3.44137e-07	2.03922e-07
10.0000	6.34221e-08	7.44643e-08	5.51078e-08	3.42337e-08	2.02862e-08
1.00000	5.70273e-09	6.92390e-09	5.25898e-09	3.31509e-09	1.97817e-09
0.100000	5.27113e-10	6.65499e-10	5.14471e-10	3.26848e-10	1.95687e-10
0.0100000	5.17518e-11	6.60344e-11	5.12415e-11	3.26030e-11	1.95316e-11
0.00100000	5.16250e-12	6.59703e-12	5.12165e-12	3.25930e-12	1.95269e-12
0.000100000	5.16114e-13	6.59635e-13	5.12137e-13	3.25918e-13	1.95264e-13
1.00000e-05	5.16100e-14	6.59629e-14	5.12134e-14	3.25917e-14	1.95263e-14
1.00000e-06	5.16098e-15	6.59629e-15	5.12134e-15	3.25917e-15	1.95263e-15
1.00000e-07	5.16098e-16	6.59629e-16	5.12134e-16	3.25917e-16	1.95263e-16
1.00000e-08	5.16098e-17	6.59629e-17	5.12134e-17	3.25917e-17	1.95263e-17
1.00000e-09	5.16098e-18	6.59629e-18	5.12134e-18	3.25917e-18	1.95263e-18

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.000851101	7.11160e-05	6.74923e-05	6.49524e-05	6.22237e-05
1.00000e+07	0.000531668	3.56540e-05	3.15982e-05	2.55353e-05	1.92291e-05
1.00000e+06	0.000219864	1.89164e-05	1.05303e-05	5.86887e-06	3.37389e-06
100000.	5.18150e-05	4.05203e-06	1.73320e-06	8.13428e-07	4.09792e-07
10000.0	8.23873e-06	6.24155e-07	2.28685e-07	9.41084e-08	4.29459e-08
1000.00	1.08710e-06	8.07511e-08	2.60681e-08	9.78808e-09	4.25217e-09
100.000	1.19733e-07	8.85642e-09	2.68997e-09	9.76251e-10	4.18541e-10
10.0000	1.18986e-08	8.96541e-10	2.68618e-10	9.68570e-11	4.14410e-11
1.00000	1.16391e-09	8.90059e-11	2.66413e-11	9.59570e-12	4.10319e-12
0.100000	1.15308e-10	8.86308e-12	2.65397e-12	9.55870e-13	4.08732e-13
0.0100000	1.15119e-11	8.85640e-13	2.65242e-13	9.55348e-14	4.08515e-14
0.00100000	1.15095e-12	8.85544e-14	2.65223e-14	9.55289e-15	4.08492e-15
0.000100000	1.15092e-13	8.85532e-15	2.65220e-15	9.55283e-16	4.08489e-16
1.00000e-05	1.15092e-14	8.85528e-16	2.65220e-16	9.55283e-17	4.08489e-17
1.00000e-06	1.15092e-15	8.85528e-17	2.65220e-17	9.55283e-18	4.08489e-18
1.00000e-07	1.15092e-16	8.85528e-18	2.65220e-18	9.55283e-19	4.08489e-19
1.00000e-08	1.15092e-17	8.85528e-19	2.65220e-19	9.55283e-20	4.08489e-20
1.00000e-09	1.15092e-18	8.85528e-20	2.65220e-20	9.55283e-21	4.08489e-21

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	5.83579e-05	5.32277e-05	4.73543e-05	4.13645e-05	3.57152e-05
1.00000e+07	1.40814e-05	1.02860e-05	7.59381e-06	5.70094e-06	4.36352e-06
1.00000e+06	2.03048e-06	1.28334e-06	8.52203e-07	5.93464e-07	4.31618e-07
100000.	2.22303e-07	1.30603e-07	8.29106e-08	5.63473e-08	4.05105e-08
10000.0	2.19389e-08	1.25170e-08	7.85896e-09	5.32919e-09	3.83666e-09
1000.00	2.12900e-09	1.20779e-09	7.58340e-10	5.15196e-10	3.71740e-10
100.000	2.08837e-10	1.18478e-10	7.44688e-11	5.06564e-11	3.65956e-11
10.0000	2.06722e-11	1.17316e-11	7.37759e-12	5.02128e-12	3.62945e-12
1.00000	2.04660e-12	1.16175e-12	7.30933e-13	4.97772e-13	3.60017e-13
0.100000	2.03892e-13	1.15766e-13	7.28565e-14	4.96310e-14	3.59062e-14
0.0100000	2.03790e-14	1.15712e-14	7.28260e-15	4.96123e-15	3.58942e-15
0.00100000	2.03779e-15	1.15707e-15	7.28230e-16	4.96106e-16	3.58930e-16
0.000100000	2.03778e-16	1.15706e-16	7.28226e-17	4.96104e-17	3.58930e-17
1.00000e-05	2.03778e-17	1.15706e-17	7.28226e-18	4.96104e-18	3.58930e-18
1.00000e-06	2.03778e-18	1.15706e-18	7.28226e-19	4.96104e-19	3.58930e-19
1.00000e-07	2.03778e-19	1.15706e-19	7.28226e-20	4.96104e-20	3.58930e-20
1.00000e-08	2.03778e-20	1.15706e-20	7.28226e-21	4.96104e-21	3.58930e-21
1.00000e-09	2.03778e-21	1.15706e-21	7.28226e-22	4.96104e-22	3.58930e-22

Pa\K	4000.00
1.00000e+08	3.06525e-05
1.00000e+07	3.40779e-06
1.00000e+06	3.26052e-07
100000.	3.04678e-08
10000.0	2.89291e-09
1000.00	2.80901e-10
100.000	2.76829e-11
10.0000	2.74686e-12

1.00000	2.72628e-13
0.100000	2.71979e-14
0.0100000	2.71898e-15
0.00100000	2.71888e-16
0.000100000	2.71888e-17
1.00000e-05	2.71888e-18
1.00000e-06	2.71888e-19
1.00000e-07	2.71888e-20
1.00000e-08	2.71888e-21
1.00000e-09	2.71888e-22

PAH9+H
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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	2.87456e-36	4.87279e-35	2.51417e-34	8.27106e-34	2.15166e-33
1.00000e+07	2.88803e-32	4.94367e-31	2.57937e-30	8.58466e-30	2.25976e-29
1.00000e+06	3.21391e-28	6.03784e-27	3.36549e-26	1.17661e-25	3.21683e-25
100000.	5.01852e-24	9.54939e-23	5.10931e-22	1.69897e-21	4.41659e-21
10000.0	5.59108e-20	8.24031e-19	3.78125e-18	1.12629e-17	2.68440e-17
1000.00	2.60569e-16	2.88979e-15	1.10970e-14	2.88131e-14	6.11760e-14
100.000	4.05136e-13	2.82989e-12	8.02608e-12	1.64087e-11	2.83831e-11
10.0000	9.60301e-11	2.99010e-10	5.23105e-10	7.59795e-10	1.00961e-09
1.00000	1.67492e-09	2.71419e-09	3.38228e-09	3.90521e-09	4.36321e-09
0.100000	4.53145e-09	5.05593e-09	5.43469e-09	5.82823e-09	6.26073e-09
0.0100000	6.22631e-09	7.55617e-09	8.98333e-09	1.05874e-08	1.24117e-08
0.00100000	1.58468e-08	2.49692e-08	3.30041e-08	4.06097e-08	4.80772e-08
0.000100000	5.76413e-08	7.17956e-08	7.91013e-08	8.47263e-08	8.99134e-08
1.00000e-05	8.47907e-08	8.75826e-08	9.01320e-08	9.32068e-08	9.68126e-08
1.00000e-06	8.81109e-08	8.92267e-08	9.12409e-08	9.40503e-08	9.74964e-08
1.00000e-07	8.84404e-08	8.93904e-08	9.13514e-08	9.41345e-08	9.75647e-08
1.00000e-08	8.84733e-08	8.94068e-08	9.13625e-08	9.41429e-08	9.75715e-08
1.00000e-09	8.84766e-08	8.94084e-08	9.13636e-08	9.41437e-08	9.75722e-08

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	4.85733e-33	1.00060e-32	1.94067e-32	3.62010e-32	6.59537e-32
1.00000e+07	5.16262e-29	1.07645e-28	2.11378e-28	3.99357e-28	7.37272e-28
1.00000e+06	7.57164e-25	1.61677e-24	3.23591e-24	6.20699e-24	1.15944e-23
100000.	9.90127e-21	2.01741e-20	3.85841e-20	7.07828e-20	1.26483e-19
10000.0	5.59498e-17	1.06919e-16	1.92846e-16	3.34728e-16	5.66818e-16
1000.00	1.15080e-13	2.00088e-13	3.29889e-13	5.24498e-13	8.13563e-13
100.000	4.44036e-11	6.50427e-11	9.10666e-11	1.23507e-10	1.63733e-10
10.0000	1.27401e-09	1.55511e-09	1.85604e-09	2.18094e-09	2.53497e-09
1.00000	4.79092e-09	5.20779e-09	5.62809e-09	6.06434e-09	6.52882e-09
0.100000	6.74132e-09	7.28174e-09	7.89967e-09	8.61931e-09	9.47221e-09
0.0100000	1.45073e-08	1.69468e-08	1.98258e-08	2.32607e-08	2.73875e-08
0.00100000	5.55924e-08	6.33188e-08	7.14098e-08	8.00061e-08	8.92356e-08
0.000100000	9.51250e-08	1.00620e-07	1.06583e-07	1.13163e-07	1.20487e-07
1.00000e-05	1.00948e-07	1.05662e-07	1.11030e-07	1.17140e-07	1.24082e-07
1.00000e-06	1.01525e-07	1.06161e-07	1.11470e-07	1.17534e-07	1.24439e-07
1.00000e-07	1.01582e-07	1.06211e-07	1.11514e-07	1.17574e-07	1.24474e-07
1.00000e-08	1.01588e-07	1.06216e-07	1.11519e-07	1.17578e-07	1.24478e-07
1.00000e-09	1.01589e-07	1.06216e-07	1.11519e-07	1.17578e-07	1.24478e-07

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.18727e-31	2.13096e-31	3.84071e-31	6.98966e-31	1.28967e-30
1.00000e+07	1.34571e-27	2.45087e-27	4.48605e-27	8.29899e-27	1.55808e-26
1.00000e+06	2.13451e-23	3.90884e-23	7.17133e-23	1.32532e-22	2.47693e-22
100000.	2.22673e-19	3.89601e-19	6.82027e-19	1.20068e-18	2.13358e-18
10000.0	9.45881e-16	1.56731e-15	2.59347e-15	4.30378e-15	7.18360e-15
1000.00	1.24133e-12	1.87413e-12	2.81160e-12	4.20336e-12	6.27346e-12
100.000	2.13541e-10	2.75265e-10	3.51915e-10	4.47358e-10	5.66547e-10
10.0000	2.92429e-09	3.35618e-09	3.83908e-09	4.38288e-09	4.99914e-09
1.00000	7.03431e-09	7.59493e-09	8.22689e-09	8.94956e-09	9.78671e-09
0.100000	1.04987e-08	1.17501e-08	1.32928e-08	1.52124e-08	1.76192e-08
0.0100000	3.23598e-08	3.83497e-08	4.55473e-08	5.41607e-08	6.44155e-08
0.00100000	9.92176e-08	1.10069e-07	1.21911e-07	1.34876e-07	1.49114e-07
0.000100000	1.28669e-07	1.37819e-07	1.48054e-07	1.59502e-07	1.72306e-07
1.00000e-05	1.31946e-07	1.40826e-07	1.50828e-07	1.62071e-07	1.74693e-07
1.00000e-06	1.32270e-07	1.41125e-07	1.51104e-07	1.62327e-07	1.74931e-07
1.00000e-07	1.32303e-07	1.41155e-07	1.51132e-07	1.62352e-07	1.74955e-07
1.00000e-08	1.32306e-07	1.41158e-07	1.51134e-07	1.62355e-07	1.74957e-07
1.00000e-09	1.32307e-07	1.41158e-07	1.51135e-07	1.62355e-07	1.74957e-07

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.41915e-30	4.62002e-30	8.98625e-30	1.77922e-29	3.58148e-29
1.00000e+07	2.97670e-26	5.79524e-26	1.15004e-25	2.32465e-25	4.77973e-25

1.00000e+06	4.69321e-22	9.02679e-22	1.76274e-21	3.49260e-21	7.01238e-21
100000.	3.83619e-18	6.98821e-18	1.29014e-17	2.41268e-17	4.56531e-17
10000.0	1.20819e-14	2.04912e-14	3.50424e-14	6.03755e-14	1.04663e-13
1000.00	9.35582e-12	1.39448e-11	2.07663e-11	3.08773e-11	4.58012e-11
100.000	7.15792e-10	9.03099e-10	1.13857e-09	1.43492e-09	1.80797e-09
10.0000	5.70140e-09	6.50566e-09	7.43085e-09	8.49955e-09	9.73887e-09
1.00000	1.07682e-08	1.19321e-08	1.33276e-08	1.50188e-08	1.70898e-08
0.100000	2.06559e-08	2.45044e-08	2.93954e-08	3.56163e-08	4.35206e-08
0.0100000	7.65541e-08	9.08350e-08	1.07533e-07	1.26938e-07	1.49362e-07
0.00100000	1.64795e-07	1.82114e-07	2.01293e-07	2.22590e-07	2.46291e-07
0.000100000	1.86632e-07	2.02671e-07	2.20644e-07	2.40800e-07	2.63428e-07
1.00000e-05	1.88857e-07	2.04750e-07	2.22587e-07	2.42621e-07	2.65134e-07
1.00000e-06	1.89078e-07	2.04956e-07	2.22781e-07	2.42802e-07	2.65304e-07
1.00000e-07	1.89101e-07	2.04977e-07	2.22800e-07	2.42820e-07	2.65322e-07
1.00000e-08	1.89103e-07	2.04979e-07	2.22802e-07	2.42822e-07	2.65323e-07
1.00000e-09	1.89103e-07	2.04979e-07	2.22802e-07	2.42822e-07	2.65323e-07

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	7.31667e-29	1.51374e-28	3.16342e-28	6.65704e-28	1.40537e-27
1.00000e+07	9.97753e-25	2.10968e-24	4.50639e-24	9.69370e-24	2.09208e-23
1.00000e+06	1.42433e-20	2.92106e-20	6.03544e-20	1.25325e-19	2.60784e-19
100000.	8.72732e-17	1.68245e-16	3.26423e-16	6.35983e-16	1.24133e-15
10000.0	1.82242e-13	3.18136e-13	5.55695e-13	9.69341e-13	1.68548e-12
1000.00	6.77126e-11	9.96847e-11	1.46019e-10	2.12677e-10	3.07846e-10
100.000	2.27737e-09	2.86735e-09	3.60749e-09	4.53382e-09	5.68979e-09
10.0000	1.11816e-08	1.28676e-08	1.48461e-08	1.71781e-08	1.99394e-08
1.00000	1.96510e-08	2.28474e-08	2.68688e-08	3.19627e-08	3.84482e-08
0.100000	5.35354e-08	6.61673e-08	8.20057e-08	1.01724e-07	1.26079e-07
0.0100000	1.75132e-07	2.04606e-07	2.38168e-07	2.76239e-07	3.19280e-07
0.00100000	2.72726e-07	3.02263e-07	3.35312e-07	3.72334e-07	4.13840e-07
0.000100000	2.88849e-07	3.17429e-07	3.49578e-07	3.85752e-07	4.26459e-07
1.00000e-05	2.90451e-07	3.18934e-07	3.50992e-07	3.87081e-07	4.27707e-07
1.00000e-06	2.90610e-07	3.19084e-07	3.51133e-07	3.87213e-07	4.27832e-07
1.00000e-07	2.90627e-07	3.19099e-07	3.51147e-07	3.87226e-07	4.27844e-07
1.00000e-08	2.90628e-07	3.19100e-07	3.51148e-07	3.87227e-07	4.27846e-07
1.00000e-09	2.90629e-07	3.19100e-07	3.51149e-07	3.87228e-07	4.27846e-07

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	2.96327e-27	6.21058e-27	1.28759e-26	5.23315e-23	3.21015e-16
1.00000e+07	4.51068e-23	9.67130e-23	2.05272e-22	1.10615e-18	1.50060e-12
1.00000e+06	5.41990e-19	1.12091e-18	2.29801e-18	5.97620e-15	5.10174e-10
100000.	2.42076e-15	4.70291e-15	9.07387e-15	5.23642e-12	1.60249e-08
10000.0	2.91604e-12	5.01122e-12	8.53975e-12	4.61541e-10	6.61521e-08
1000.00	4.42663e-10	6.32140e-10	8.96292e-10	6.59831e-09	1.12138e-07
100.000	7.12750e-09	8.90902e-09	1.11078e-08	2.92375e-08	1.80717e-07
10.0000	2.32256e-08	2.71573e-08	3.18861e-08	6.25240e-08	4.42250e-07
1.00000	4.67335e-08	5.73326e-08	7.08835e-08	1.75934e-07	1.20077e-06
0.100000	1.55905e-07	1.92104e-07	2.35641e-07	4.78947e-07	1.97605e-06
0.0100000	3.67804e-07	4.22373e-07	4.83611e-07	7.32257e-07	2.23336e-06
0.00100000	4.60396e-07	5.12622e-07	5.71204e-07	7.92672e-07	2.26910e-06
0.000100000	4.72261e-07	5.23778e-07	5.81690e-07	7.99432e-07	2.27274e-06
1.00000e-05	4.73435e-07	5.24881e-07	5.82728e-07	8.00106e-07	2.27311e-06
1.00000e-06	4.73552e-07	5.24991e-07	5.82832e-07	8.00174e-07	2.27314e-06
1.00000e-07	4.73563e-07	5.25003e-07	5.82842e-07	8.00180e-07	2.27314e-06
1.00000e-08	4.73564e-07	5.25004e-07	5.82843e-07	8.00181e-07	2.27314e-06
1.00000e-09	4.73564e-07	5.25004e-07	5.82843e-07	8.00181e-07	2.27314e-06

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	1.51891e-11	1.12174e-09	1.59190e-08	1.33694e-07	1.01875e-06
1.00000e+07	1.64399e-08	5.82641e-07	3.94536e-06	1.51809e-05	4.21261e-05
1.00000e+06	7.38491e-07	1.82830e-05	7.78761e-05	0.000168232	0.000269202
100000.	3.15822e-06	5.33302e-05	0.000200369	0.000347004	0.000472461
10000.0	2.88156e-06	3.55461e-05	0.000161313	0.000346536	0.000551380
1000.00	1.39981e-06	1.44084e-05	9.26864e-05	0.000266630	0.000425410
100.000	1.24856e-06	8.97347e-06	4.98593e-05	0.000130559	0.000184903
10.0000	2.84579e-06	1.16739e-05	3.41029e-05	6.87076e-05	0.000104715
1.00000	5.00570e-06	1.40329e-05	3.10475e-05	5.75236e-05	9.32917e-05
0.100000	5.95449e-06	1.46158e-05	3.06742e-05	5.62696e-05	9.21328e-05
0.0100000	6.12362e-06	1.46903e-05	3.06378e-05	5.61486e-05	9.20219e-05
0.00100000	6.14221e-06	1.46979e-05	3.06343e-05	5.61368e-05	9.20114e-05
0.000100000	6.14407e-06	1.46987e-05	3.06339e-05	5.61357e-05	9.20100e-05
1.00000e-05	6.14426e-06	1.46988e-05	3.06339e-05	5.61355e-05	9.20100e-05
1.00000e-06	6.14428e-06	1.46988e-05	3.06339e-05	5.61355e-05	9.20100e-05
1.00000e-07	6.14428e-06	1.46988e-05	3.06339e-05	5.61355e-05	9.20100e-05
1.00000e-08	6.14428e-06	1.46988e-05	3.06339e-05	5.61355e-05	9.20100e-05
1.00000e-09	6.14428e-06	1.46988e-05	3.06339e-05	5.61355e-05	9.20100e-05

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	3.67370e-06	5.79127e-06	6.65290e-06	7.02613e-06	6.80994e-06
1.00000e+07	7.59460e-05	9.93521e-05	0.000113515	0.000129374	0.000142852
1.00000e+06	0.000352647	0.000431094	0.000518285	0.000589677	0.000612872
100000.	0.000615528	0.000800788	0.000970607	0.00102956	0.000973480
10000.0	0.000756676	0.000897370	0.000918699	0.000840931	0.000734846
1000.00	0.000491872	0.000486282	0.000457043	0.000436629	0.000434135
100.000	0.000211517	0.000238321	0.000274321	0.000316859	0.000360796
10.0000	0.000145918	0.000194535	0.000247706	0.000301347	0.000351922
1.00000	0.000138120	0.000189881	0.000245045	0.000299843	0.000351076
0.100000	0.000137367	0.000189441	0.000244795	0.000299702	0.000350998
0.0100000	0.000137295	0.000189398	0.000244771	0.000299689	0.000350990
0.00100000	0.000137288	0.000189394	0.000244769	0.000299688	0.000350989
0.000100000	0.000137288	0.000189394	0.000244769	0.000299688	0.000350989
1.00000e-05	0.000137287	0.000189394	0.000244769	0.000299688	0.000350989
1.00000e-06	0.000137287	0.000189394	0.000244769	0.000299688	0.000350989
1.00000e-07	0.000137287	0.000189394	0.000244769	0.000299688	0.000350989
1.00000e-08	0.000137287	0.000189394	0.000244769	0.000299688	0.000350989
1.00000e-09	0.000137287	0.000189394	0.000244769	0.000299688	0.000350989

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	5.85294e-06	0.000132934	0.000143382	0.000149165	0.000151648
1.00000e+07	0.000145586	0.000315251	0.000351121	0.000365009	0.000341642
1.00000e+06	0.000594214	0.000673494	0.000633410	0.000571702	0.000474746
100000.	0.000868611	0.000813903	0.000655814	0.000543668	0.000440525
10000.0	0.000647675	0.000555909	0.000473066	0.000425817	0.000382705
1000.00	0.000445077	0.000398914	0.000402813	0.000393959	0.000371057
100.000	0.000401976	0.000370125	0.000392584	0.000390045	0.000369803
10.0000	0.000396969	0.000366782	0.000391504	0.000389659	0.000369685
1.00000	0.000396498	0.000366449	0.000391400	0.000389621	0.000369675
0.100000	0.000396454	0.000366416	0.000391391	0.000389615	0.000369672
0.0100000	0.000396451	0.000366413	0.000391387	0.000389615	0.000369672
0.00100000	0.000396450	0.000366412	0.000391387	0.000389615	0.000369672
0.000100000	0.000396450	0.000366412	0.000391387	0.000389615	0.000369672
1.00000e-05	0.000396450	0.000366412	0.000391387	0.000389615	0.000369672
1.00000e-06	0.000396450	0.000366412	0.000391387	0.000389615	0.000369672
1.00000e-07	0.000396450	0.000366412	0.000391387	0.000389615	0.000369672
1.00000e-08	0.000396450	0.000366412	0.000391387	0.000389615	0.000369672
1.00000e-09	0.000396450	0.000366412	0.000391387	0.000389615	0.000369672

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.000150827	0.000146517	0.000139423	0.000130590	0.000120965
1.00000e+07	0.000303327	0.000263390	0.000227048	0.000195646	0.000168990
1.00000e+06	0.000387170	0.000318901	0.000266532	0.000225174	0.000191297
100000.	0.000366332	0.000311831	0.000267696	0.000229609	0.000196107
10000.0	0.000342993	0.000304033	0.000265927	0.000229823	0.000196771
1000.00	0.000339296	0.000303051	0.000265787	0.000229908	0.000196886
100.000	0.000338942	0.000302971	0.000265786	0.000229925	0.000196902
10.0000	0.000338912	0.000302966	0.000265788	0.000229927	0.000196904
1.00000	0.000338907	0.000302964	0.000265788	0.000229927	0.000196904
0.100000	0.000338907	0.000302964	0.000265788	0.000229927	0.000196904
0.0100000	0.000338907	0.000302964	0.000265788	0.000229927	0.000196904
0.00100000	0.000338907	0.000302964	0.000265788	0.000229927	0.000196904
0.000100000	0.000338907	0.000302964	0.000265788	0.000229927	0.000196904
1.00000e-05	0.000338907	0.000302964	0.000265788	0.000229927	0.000196904
1.00000e-06	0.000338907	0.000302964	0.000265788	0.000229927	0.000196904
1.00000e-07	0.000338907	0.000302964	0.000265788	0.000229927	0.000196904
1.00000e-08	0.000338907	0.000302964	0.000265788	0.000229927	0.000196904
1.00000e-09	0.000338907	0.000302964	0.000265788	0.000229927	0.000196904

Pa\K	4000.00
1.00000e+08	0.000111243
1.00000e+07	0.000146429
1.00000e+06	0.000162854
100000.	0.000166797
10000.0	0.000167411
1000.00	0.000167504
100.000	0.000167516
10.0000	0.000167518
1.00000	0.000167518
0.100000	0.000167518
0.0100000	0.000167518
0.00100000	0.000167518
0.000100000	0.000167518
1.00000e-05	0.000167518
1.00000e-06	0.000167518

1.00000e-07 | 0.000167518
1.00000e-08 | 0.000167518
1.00000e-09 | 0.000167518

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.72188e-44	3.43912e-43	2.54679e-42	1.40990e-41	7.03886e-41
1.00000e+07	1.55242e-40	2.92758e-39	2.08910e-38	1.12529e-37	5.50027e-37
1.00000e+06	1.13251e-36	1.91785e-35	1.24929e-34	6.21414e-34	2.83670e-33
100000.	4.13836e-33	4.65112e-32	2.37190e-31	9.98981e-31	4.04720e-30
10000.0	3.73903e-30	2.91214e-29	1.23405e-28	4.60899e-28	1.71475e-27
1000.00	1.07718e-27	5.66111e-27	1.87657e-26	5.87407e-26	1.91457e-25
100.000	6.15348e-26	1.59488e-25	3.46099e-25	8.14221e-25	2.17658e-24
10.0000	3.82021e-25	6.93809e-25	1.25381e-24	2.54357e-24	6.05720e-24
1.00000	5.71358e-25	4.66851e-25	6.40121e-25	1.26941e-24	3.49954e-24
0.100000	6.97938e-25	1.65222e-24	3.59143e-24	8.61692e-24	2.57210e-23
0.0100000	5.90526e-24	1.20025e-23	2.26680e-23	4.81807e-23	1.30948e-22
0.00100000	1.58331e-23	1.35687e-23	1.43009e-23	2.07211e-23	4.88501e-23
0.000100000	1.16182e-24	4.04099e-25	3.46854e-25	5.83910e-25	2.99049e-24
1.00000e-05	2.47223e-26	1.33544e-26	1.56850e-26	3.65207e-26	9.21838e-25
1.00000e-06	1.73579e-27	1.11493e-27	1.40381e-27	4.51411e-27	7.57813e-25
1.00000e-07	1.66754e-28	1.09370e-28	1.38835e-28	1.52411e-27	7.41836e-25
1.00000e-08	1.66078e-29	1.09158e-29	1.39327e-29	1.22719e-27	7.40243e-25
1.00000e-09	1.66010e-30	1.09137e-30	1.45848e-30	1.19752e-27	7.40083e-25

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	3.47408e-40	1.79859e-39	1.00119e-38	5.87013e-38	3.44772e-37
1.00000e+07	2.67178e-36	1.36824e-35	7.56687e-35	4.41792e-34	2.58332e-33
1.00000e+06	1.30239e-32	6.38634e-32	3.42193e-31	1.94683e-30	1.10695e-29
100000.	1.70629e-29	7.90552e-29	4.09316e-28	2.27196e-27	1.25549e-26
10000.0	6.80550e-27	3.03276e-26	1.53669e-25	8.39682e-25	4.53943e-24
1000.00	6.90510e-25	2.90388e-24	1.43759e-23	7.76830e-23	4.09927e-22
100.000	6.96838e-24	2.88162e-23	1.55187e-22	9.28696e-22	5.17809e-21
10.0000	1.84691e-23	8.32624e-23	5.45877e-22	3.82591e-21	2.30374e-20
1.00000	1.47141e-23	1.04573e-22	9.71684e-22	7.95550e-21	5.05386e-20
0.100000	1.07663e-22	6.57873e-22	4.91993e-21	3.44971e-20	2.00789e-19
0.0100000	5.23993e-22	3.23156e-21	2.43273e-20	1.66498e-19	9.27838e-19
0.00100000	2.64779e-22	3.05339e-21	3.39074e-20	2.69755e-19	1.56372e-18
0.000100000	8.76831e-23	2.31957e-21	3.26744e-20	2.79794e-19	1.66105e-18
1.00000e-05	7.34873e-23	2.23807e-21	3.24762e-20	2.80605e-19	1.67086e-18
1.00000e-06	7.21547e-23	2.22994e-21	3.24557e-20	2.80683e-19	1.67184e-18
1.00000e-07	7.20224e-23	2.22913e-21	3.24536e-20	2.80691e-19	1.67194e-18
1.00000e-08	7.20092e-23	2.22905e-21	3.24534e-20	2.80692e-19	1.67195e-18
1.00000e-09	7.20079e-23	2.22904e-21	3.24534e-20	2.80692e-19	1.67195e-18

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.93780e-36	1.01700e-35	4.95098e-35	2.24276e-34	9.51955e-34
1.00000e+07	1.44307e-32	7.51118e-32	3.61906e-31	1.61945e-30	6.77778e-30
1.00000e+06	5.97283e-29	2.98009e-28	1.36690e-27	5.78899e-27	2.28222e-26
100000.	6.52030e-26	3.10193e-25	1.34698e-24	5.37448e-24	1.98991e-23
10000.0	2.28080e-23	1.03854e-22	4.27808e-22	1.60741e-21	5.56951e-21
1000.00	1.96691e-21	8.38240e-21	3.18000e-20	1.08648e-19	3.38863e-19
100.000	2.49579e-20	1.03194e-19	3.71908e-19	1.19268e-18	3.46923e-18
10.0000	1.13535e-19	4.65306e-19	1.63250e-18	5.04041e-18	1.40167e-17
1.00000	2.52363e-19	1.03277e-18	3.60588e-18	1.11029e-17	3.09486e-17
0.100000	9.60135e-19	3.86762e-18	1.35207e-17	4.20988e-17	1.19191e-16
0.0100000	4.20648e-18	1.59633e-17	5.22865e-17	1.51747e-16	3.98565e-16
0.00100000	7.02832e-18	2.58788e-17	8.14608e-17	2.26392e-16	5.69229e-16
0.000100000	7.50783e-18	2.75930e-17	8.64222e-17	2.38697e-16	5.96324e-16
1.00000e-05	7.55826e-18	2.77754e-17	8.69513e-17	2.40007e-16	5.99194e-16
1.00000e-06	7.56333e-18	2.77938e-17	8.70046e-17	2.40139e-16	5.99483e-16
1.00000e-07	7.56384e-18	2.77956e-17	8.70099e-17	2.40152e-16	5.99512e-16
1.00000e-08	7.56389e-18	2.77958e-17	8.70104e-17	2.40153e-16	5.99515e-16
1.00000e-09	7.56389e-18	2.77958e-17	8.70105e-17	2.40153e-16	5.99515e-16

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.81543e-33	1.45433e-32	5.30429e-32	1.86034e-31	6.29799e-31
1.00000e+07	2.67383e-29	1.00142e-28	3.58253e-28	1.23037e-27	4.07238e-27
1.00000e+06	8.44871e-26	2.96049e-25	9.88670e-25	3.16459e-24	9.75324e-24
100000.	6.90497e-23	2.26537e-22	7.07893e-22	2.11960e-21	6.11064e-21
10000.0	1.79860e-20	5.46383e-20	1.57337e-19	4.32156e-19	1.13788e-18
1000.00	9.77032e-19	2.63262e-18	6.68961e-18	1.61514e-17	3.72830e-17
100.000	9.30190e-18	2.32919e-17	5.50365e-17	1.23733e-16	2.66402e-16
10.0000	3.57695e-17	8.50295e-17	1.90556e-16	4.06505e-16	8.31984e-16
1.00000	7.97064e-17	1.92689e-16	4.42596e-16	9.74833e-16	2.07288e-15

0.100000	3.11776e-16	7.62649e-16	1.76067e-15	3.86327e-15	8.10104e-15
0.0100000	9.63420e-16	2.17187e-15	4.61474e-15	9.32058e-15	1.80180e-14
0.00100000	1.31922e-15	2.85879e-15	5.85787e-15	1.14496e-14	2.14952e-14
0.000100000	1.37350e-15	2.95952e-15	6.03329e-15	1.17393e-14	2.19528e-14
1.00000e-05	1.37922e-15	2.97008e-15	6.05159e-15	1.17694e-14	2.20000e-14
1.00000e-06	1.37980e-15	2.97114e-15	6.05343e-15	1.17724e-14	2.20048e-14
1.00000e-07	1.37986e-15	2.97125e-15	6.05362e-15	1.17727e-14	2.20052e-14
1.00000e-08	1.37986e-15	2.97126e-15	6.05363e-15	1.17728e-14	2.20053e-14
1.00000e-09	1.37986e-15	2.97126e-15	6.05364e-15	1.17728e-14	2.20053e-14

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.06328e-30	6.54884e-30	2.01356e-29	5.99027e-29	1.72132e-28
1.00000e+07	1.30265e-26	4.03319e-26	1.20916e-25	3.50809e-25	9.83731e-25
1.00000e+06	2.90450e-23	8.37812e-23	2.34401e-22	6.36298e-22	1.67513e-21
100000.	1.70252e-20	4.59700e-20	1.20509e-19	3.07000e-19	7.60132e-19
10000.0	2.88362e-18	7.05590e-18	1.67112e-17	3.83792e-17	8.55774e-17
1000.00	8.27072e-17	1.77079e-16	3.67220e-16	7.39720e-16	1.45068e-15
100.000	5.52149e-16	1.10622e-15	2.14948e-15	4.06147e-15	7.47818e-15
10.0000	1.64424e-15	3.15434e-15	5.89958e-15	1.07939e-14	1.93679e-14
1.00000	4.27608e-15	8.58585e-15	1.68151e-14	3.21593e-14	6.00927e-14
0.100000	1.63057e-14	3.16173e-14	5.92408e-14	1.07540e-13	1.89562e-13
0.0100000	3.35253e-14	6.03185e-14	1.05340e-13	1.79131e-13	2.97376e-13
0.00100000	3.89754e-14	6.85587e-14	1.17410e-13	1.96321e-13	3.21252e-13
0.000100000	3.96708e-14	6.95810e-14	1.18870e-13	1.98353e-13	3.24017e-13
1.00000e-05	3.97424e-14	6.96860e-14	1.19019e-13	1.98560e-13	3.24298e-13
1.00000e-06	3.97496e-14	6.96964e-14	1.19034e-13	1.98581e-13	3.24326e-13
1.00000e-07	3.97504e-14	6.96975e-14	1.19036e-13	1.98583e-13	3.24329e-13
1.00000e-08	3.97504e-14	6.96976e-14	1.19036e-13	1.98584e-13	3.24329e-13
1.00000e-09	3.97505e-14	6.96976e-14	1.19036e-13	1.98584e-13	3.24329e-13

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	4.76950e-28	1.27272e-27	3.26873e-27	1.62844e-22	2.76149e-16
1.00000e+07	2.66262e-24	6.94814e-24	1.74684e-23	4.43109e-19	3.00841e-13
1.00000e+06	4.27292e-21	1.05494e-20	2.51861e-20	2.62914e-16	3.20722e-11
100000.	1.82850e-18	4.27007e-18	9.67234e-18	2.59841e-14	2.77471e-10
10000.0	1.85401e-16	3.90383e-16	7.98906e-16	2.14387e-13	2.30097e-10
1000.00	2.77439e-15	5.17986e-15	9.44757e-15	2.84825e-13	5.70021e-11
100.000	1.34388e-14	2.35974e-14	4.05164e-14	2.70020e-13	2.16930e-11
10.0000	3.41400e-14	5.91677e-14	1.00830e-13	5.88399e-13	3.99818e-11
1.00000	1.09712e-13	1.95656e-13	3.40681e-13	1.58111e-12	6.79994e-11
0.100000	3.25097e-13	5.43345e-13	8.86190e-13	2.19938e-12	7.69993e-11
0.0100000	4.82952e-13	7.68560e-13	1.19993e-12	2.23504e-12	7.80589e-11
0.00100000	5.15377e-13	8.11712e-13	1.25632e-12	2.22809e-12	7.81584e-11
0.000100000	5.19064e-13	8.16541e-13	1.26255e-12	2.22712e-12	7.81682e-11
1.00000e-05	5.19439e-13	8.17030e-13	1.26317e-12	2.22703e-12	7.81692e-11
1.00000e-06	5.19476e-13	8.17079e-13	1.26323e-12	2.22701e-12	7.81693e-11
1.00000e-07	5.19480e-13	8.17084e-13	1.26324e-12	2.22701e-12	7.81693e-11
1.00000e-08	5.19480e-13	8.17085e-13	1.26324e-12	2.22701e-12	7.81693e-11
1.00000e-09	5.19480e-13	8.17085e-13	1.26324e-12	2.22701e-12	7.81693e-11

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	7.98941e-12	5.31109e-10	7.08025e-09	5.37161e-08	3.08074e-07
1.00000e+07	3.63725e-09	1.32709e-07	8.98435e-07	3.47770e-06	9.61320e-06
1.00000e+06	1.04468e-07	3.46367e-06	1.56848e-05	3.48362e-05	5.66900e-05
100000.	1.78467e-07	6.87382e-06	3.45356e-05	6.55689e-05	9.23620e-05
10000.0	5.08354e-08	2.53522e-06	2.14195e-05	5.62386e-05	9.53336e-05
1000.00	7.58250e-09	6.56185e-07	1.01144e-05	3.78109e-05	6.37094e-05
100.000	1.73550e-09	1.83555e-07	3.65870e-06	1.33283e-05	1.77730e-05
10.0000	1.22926e-09	5.46847e-08	8.21561e-07	2.43240e-06	2.91747e-06
1.00000	1.19262e-09	1.74004e-08	1.51957e-07	4.40365e-07	8.02895e-07
0.100000	1.16763e-09	1.04111e-08	6.04315e-08	2.14419e-07	5.87083e-07
0.0100000	1.16249e-09	9.57796e-09	5.10023e-08	1.92387e-07	5.66340e-07
0.00100000	1.16191e-09	9.49383e-09	5.00781e-08	1.90242e-07	5.64318e-07
0.000100000	1.16186e-09	9.48551e-09	4.99865e-08	1.90031e-07	5.64118e-07
1.00000e-05	1.16185e-09	9.48461e-09	4.99774e-08	1.90010e-07	5.64099e-07
1.00000e-06	1.16185e-09	9.48453e-09	4.99765e-08	1.90008e-07	5.64097e-07
1.00000e-07	1.16185e-09	9.48453e-09	4.99764e-08	1.90008e-07	5.64096e-07
1.00000e-08	1.16185e-09	9.48453e-09	4.99764e-08	1.90007e-07	5.64096e-07
1.00000e-09	1.16185e-09	9.48453e-09	4.99764e-08	1.90007e-07	5.64096e-07

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	8.62639e-07	1.18437e-06	1.22039e-06	1.17157e-06	1.07356e-06
1.00000e+07	1.68571e-05	2.13205e-05	2.36747e-05	2.62810e-05	2.83400e-05
1.00000e+06	7.45326e-05	9.05962e-05	0.000107866	0.000121355	0.000124749
100000.	0.000121288	0.000156754	0.000187119	0.000194337	0.000179228
10000.0	0.000131473	0.000151878	0.000147755	0.000125472	0.000100051

1000.00	6.99675e-05	6.07854e-05	4.71191e-05	3.65520e-05	3.16181e-05
100.000	1.54275e-05	1.22551e-05	1.11412e-05	1.26173e-05	1.64954e-05
10.0000	3.01503e-06	3.90174e-06	6.03158e-06	9.60216e-06	1.47238e-05
1.00000	1.54200e-06	3.01425e-06	5.51964e-06	9.30842e-06	1.45534e-05
0.100000	1.39891e-06	2.92967e-06	5.47112e-06	9.28059e-06	1.45372e-05
0.0100000	1.38517e-06	2.92154e-06	5.46645e-06	9.27792e-06	1.45357e-05
0.00100000	1.38383e-06	2.92074e-06	5.46599e-06	9.27765e-06	1.45355e-05
0.000100000	1.38370e-06	2.92066e-06	5.46594e-06	9.27765e-06	1.45355e-05
1.00000e-05	1.38369e-06	2.92065e-06	5.46594e-06	9.27759e-06	1.45355e-05
1.00000e-06	1.38369e-06	2.92065e-06	5.46594e-06	9.27759e-06	1.45355e-05
1.00000e-07	1.38369e-06	2.92065e-06	5.46594e-06	9.27759e-06	1.45355e-05
1.00000e-08	1.38369e-06	2.92065e-06	5.46594e-06	9.27759e-06	1.45355e-05
1.00000e-09	1.38369e-06	2.92065e-06	5.46594e-06	9.27759e-06	1.45355e-05

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	9.62709e-07	0.000187838	0.000192674	0.000195855	0.000196947
1.00000e+07	2.83534e-05	0.000428327	0.000434896	0.000419922	0.000383650
1.00000e+06	0.000119542	0.000809303	0.000672107	0.000535432	0.000414060
100000.	0.000155569	0.000761786	0.000486179	0.000318828	0.000223553
10000.0	8.08423e-05	0.000295317	0.000165836	0.000124115	0.000117617
1000.00	3.18760e-05	7.47901e-05	6.89123e-05	8.24852e-05	0.000100357
100.000	2.24727e-05	3.74471e-05	5.57712e-05	7.76543e-05	9.85474e-05
10.0000	2.14188e-05	3.32556e-05	5.44027e-05	7.71737e-05	9.83717e-05
1.00000	2.13180e-05	3.28366e-05	5.42678e-05	7.71264e-05	9.83547e-05
0.100000	2.13085e-05	3.27953e-05	5.42544e-05	7.71218e-05	9.83530e-05
0.0100000	2.13075e-05	3.27912e-05	5.42530e-05	7.71214e-05	9.83527e-05
0.00100000	2.13074e-05	3.27908e-05	5.42530e-05	7.71214e-05	9.83527e-05
0.000100000	2.13074e-05	3.27908e-05	5.42530e-05	7.71214e-05	9.83527e-05
1.00000e-05	2.13074e-05	3.27908e-05	5.42530e-05	7.71214e-05	9.83527e-05
1.00000e-06	2.13074e-05	3.27908e-05	5.42530e-05	7.71214e-05	9.83527e-05
1.00000e-07	2.13074e-05	3.27908e-05	5.42530e-05	7.71214e-05	9.83527e-05
1.00000e-08	2.13074e-05	3.27908e-05	5.42530e-05	7.71214e-05	9.83527e-05
1.00000e-09	2.13074e-05	3.27908e-05	5.42530e-05	7.71214e-05	9.83527e-05

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.000194835	0.000188861	0.000179656	0.000168349	0.000156020
1.00000e+07	0.000338176	0.000292108	0.000250104	0.000214067	0.000184248
1.00000e+06	0.000319075	0.000251353	0.000205884	0.000175861	0.000155350
100000.	0.000177211	0.000157184	0.000148458	0.000143155	0.000137873
10000.0	0.000123625	0.000131285	0.000136354	0.000137702	0.000135559
1000.00	0.000116486	0.000128311	0.000135118	0.000137205	0.000135378
100.000	0.000115783	0.000128030	0.000135006	0.000137162	0.000135363
10.0000	0.000115716	0.000128003	0.000134996	0.000137159	0.000135362
1.00000	0.000115709	0.000128001	0.000134995	0.000137158	0.000135362
0.100000	0.000115709	0.000128001	0.000134995	0.000137158	0.000135362
0.0100000	0.000115709	0.000128001	0.000134995	0.000137158	0.000135362
0.00100000	0.000115709	0.000128001	0.000134995	0.000137158	0.000135362
0.000100000	0.000115709	0.000128001	0.000134995	0.000137158	0.000135362
1.00000e-05	0.000115709	0.000128001	0.000134995	0.000137158	0.000135362
1.00000e-06	0.000115709	0.000128001	0.000134995	0.000137158	0.000135362
1.00000e-07	0.000115709	0.000128001	0.000134995	0.000137158	0.000135362
1.00000e-08	0.000115709	0.000128001	0.000134995	0.000137158	0.000135362
1.00000e-09	0.000115709	0.000128001	0.000134995	0.000137158	0.000135362

Pa\K	4000.00
1.00000e+08	0.000143503
1.00000e+07	0.000160025
1.00000e+06	0.000140211
100000.	0.000131540
10000.0	0.000130676
1000.00	0.000130628
100.000	0.000130626
10.0000	0.000130625
1.00000	0.000130625
0.100000	0.000130625
0.0100000	0.000130625
0.00100000	0.000130625
0.000100000	0.000130625
1.00000e-05	0.000130625
1.00000e-06	0.000130625
1.00000e-07	0.000130625
1.00000e-08	0.000130625
1.00000e-09	0.000130625

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
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1.00000e+08	2.26646e-19	4.41452e-17	1.84595e-15	1.84674e-14	8.91197e-14
1.00000e+07	6.36772e-17	7.21682e-16	1.90486e-14	1.84974e-13	8.87690e-13
1.00000e+06	7.94990e-15	3.69841e-14	2.50803e-13	1.88220e-12	8.54548e-12
100000.	7.54693e-13	2.88211e-12	7.19605e-12	2.11030e-11	6.29710e-11
10000.0	3.90252e-11	9.09181e-11	1.34406e-10	1.77725e-10	2.31878e-10
1000.00	2.72578e-10	3.75388e-10	4.50351e-10	5.16722e-10	5.81330e-10
100.000	7.29712e-10	9.47773e-10	1.07322e-09	1.15419e-09	1.20898e-09
10.0000	1.21225e-09	1.11935e-09	1.04401e-09	9.93768e-10	9.59048e-10
1.00000	8.50450e-10	7.90045e-10	7.68432e-10	7.57733e-10	7.51777e-10
0.100000	7.29193e-10	7.19346e-10	7.15718e-10	7.13823e-10	7.12709e-10
0.0100000	6.99672e-10	6.83991e-10	6.69735e-10	6.55819e-10	6.41797e-10
0.00100000	5.80135e-10	4.75685e-10	3.94640e-10	3.29062e-10	2.74899e-10
0.000100000	1.39015e-10	4.50473e-11	1.92981e-11	9.63238e-12	5.30238e-12
1.00000e-05	8.34375e-13	9.66156e-14	2.69265e-14	1.06969e-14	5.14515e-15
1.00000e-06	6.77352e-16	8.27860e-17	2.55365e-17	1.11145e-17	5.78754e-18
1.00000e-07	1.02379e-18	1.71195e-19	6.33069e-20	3.13339e-20	1.80449e-20
1.00000e-08	4.44981e-21	1.04680e-21	4.74683e-22	2.73298e-22	1.78150e-22
1.00000e-09	6.42669e-23	2.25779e-23	1.28281e-23	8.64566e-24	6.36732e-24

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	2.82767e-13	6.89027e-13	1.40612e-12	2.53245e-12	4.16323e-12
1.00000e+07	2.80972e-12	6.83453e-12	1.39254e-11	2.50406e-11	4.10992e-11
1.00000e+06	2.64001e-11	6.31176e-11	1.26636e-10	2.24303e-10	3.62521e-10
100000.	1.57295e-10	3.25433e-10	5.79436e-10	9.20694e-10	1.34176e-09
10000.0	3.04568e-10	3.98332e-10	5.11561e-10	6.40323e-10	7.79908e-10
1000.00	6.47628e-10	7.17104e-10	7.89954e-10	8.65627e-10	9.43238e-10
100.000	1.24674e-09	1.27278e-09	1.29042e-09	1.30183e-09	1.30853e-09
10.0000	9.34023e-10	9.15395e-10	9.01213e-10	8.90237e-10	8.81638e-10
1.00000	7.48388e-10	7.46587e-10	7.45858e-10	7.45887e-10	7.46454e-10
0.100000	7.12025e-10	7.11586e-10	7.11265e-10	7.10942e-10	7.10496e-10
0.0100000	6.27386e-10	6.12344e-10	5.96442e-10	5.79469e-10	5.61252e-10
0.00100000	2.29687e-10	1.91712e-10	1.59707e-10	1.32705e-10	1.09944e-10
0.000100000	1.32671e-12	1.94007e-12	1.25157e-12	8.32378e-13	5.67222e-13
1.00000e-05	2.78982e-15	1.64158e-15	1.02452e-15	6.68177e-16	4.50791e-16
1.00000e-06	3.36469e-18	2.10686e-18	1.39098e-18	9.55140e-19	6.75867e-19
1.00000e-07	1.14074e-20	7.68086e-21	5.41088e-21	3.94273e-21	2.94891e-21
1.00000e-08	1.25421e-22	9.30709e-23	7.17557e-23	5.69505e-23	4.62443e-23
1.00000e-09	4.95629e-24	4.00756e-24	3.33141e-24	2.82806e-24	2.44066e-24

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	6.39130e-12	9.31066e-12	1.30214e-11	1.76352e-11	2.32823e-11
1.00000e+07	6.29878e-11	9.15930e-11	1.27848e-10	1.72783e-10	2.27585e-10
1.00000e+06	5.46747e-10	7.81693e-10	1.07160e-09	1.42049e-09	1.83240e-09
100000.	1.82935e-09	2.36726e-09	2.93863e-09	3.52750e-09	4.11970e-09
10000.0	9.25791e-10	1.07411e-09	1.22186e-09	1.36681e-09	1.50750e-09
1000.00	1.02182e-09	1.10050e-09	1.17848e-09	1.25515e-09	1.33001e-09
100.000	1.31157e-09	1.31172e-09	1.30959e-09	1.30563e-09	1.30021e-09
10.0000	8.74825e-10	8.69360e-10	8.64909e-10	8.61214e-10	8.58080e-10
1.00000	7.47387e-10	7.48545e-10	7.49807e-10	7.51073e-10	7.52257e-10
0.100000	7.09795e-10	7.08699e-10	7.07065e-10	7.04749e-10	7.01608e-10
0.0100000	5.41661e-10	5.20625e-10	4.98139e-10	4.74272e-10	4.49158e-10
0.00100000	9.08004e-11	7.47511e-11	6.13452e-11	5.01908e-11	4.09460e-11
0.000100000	3.94247e-13	2.78527e-13	1.99475e-13	1.44519e-13	1.05741e-13
1.00000e-05	3.12361e-16	2.21139e-16	1.59332e-16	1.16488e-16	8.62151e-17
1.00000e-06	4.89654e-19	3.61508e-19	2.71046e-19	2.05837e-19	1.58011e-19
1.00000e-07	2.25189e-21	1.74912e-21	1.37813e-21	1.09927e-21	8.86417e-22
1.00000e-08	3.82554e-23	3.21441e-23	2.73745e-23	2.35910e-23	2.05497e-23
1.00000e-09	2.13466e-24	1.88801e-24	1.68595e-24	1.51830e-24	1.37777e-24

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.01172e-11	3.83264e-11	4.81365e-11	5.98227e-11	7.37186e-11
1.00000e+07	2.93651e-10	3.72649e-10	4.66580e-10	5.77849e-10	7.09331e-10
1.00000e+06	2.31152e-09	2.86224e-09	3.48923e-09	4.19728e-09	4.99127e-09
100000.	4.70341e-09	5.26910e-09	5.80965e-09	6.32005e-09	6.79716e-09
10000.0	1.64306e-09	1.77310e-09	1.89763e-09	2.01690e-09	2.13140e-09
1000.00	1.40267e-09	1.47282e-09	1.54020e-09	1.60463e-09	1.66595e-09
100.000	1.29365e-09	1.28620e-09	1.27812e-09	1.26958e-09	1.26078e-09
10.0000	8.55364e-10	8.52962e-10	8.50801e-10	8.48838e-10	8.47050e-10
1.00000	7.53296e-10	7.54140e-10	7.54754e-10	7.55109e-10	7.55186e-10
0.100000	6.97501e-10	6.92297e-10	6.85867e-10	6.78095e-10	6.68872e-10
0.0100000	4.23000e-10	3.96051e-10	3.68607e-10	3.40986e-10	3.13512e-10
0.00100000	3.33132e-11	2.70341e-11	2.18868e-11	1.76809e-11	1.42546e-11
0.000100000	7.80295e-14	5.80083e-14	4.34051e-14	3.26650e-14	2.47082e-14
1.00000e-05	6.44790e-17	4.86574e-17	3.70049e-17	2.83355e-17	2.18284e-17
1.00000e-06	1.22421e-19	9.56078e-20	7.51945e-20	5.95128e-20	4.73722e-20
1.00000e-07	7.21850e-22	5.93238e-22	4.91799e-22	4.11177e-22	3.46680e-22

1.00000e-08	1.80779e-23	1.60511e-23	1.43769e-23	1.29862e-23	1.18264e-23
1.00000e-09	1.25905e-24	1.15812e-24	1.07195e-24	9.98175e-25	9.34942e-25

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	9.02288e-11	1.09841e-10	1.33144e-10	1.60842e-10	1.93780e-10
1.00000e+07	8.64454e-10	1.04728e-09	1.26261e-09	1.51606e-09	1.81418e-09
1.00000e+06	5.87595e-09	6.85570e-09	7.93434e-09	9.11478e-09	1.03989e-08
100000.	7.23943e-09	7.64664e-09	8.01955e-09	8.35979e-09	8.66955e-09
10000.0	2.24173e-09	2.34861e-09	2.45277e-09	2.55498e-09	2.65597e-09
1000.00	1.72401e-09	1.77870e-09	1.82993e-09	1.87764e-09	1.92179e-09
100.000	1.25189e-09	1.24304e-09	1.23435e-09	1.22593e-09	1.21790e-09
10.0000	8.45430e-10	8.43980e-10	8.42709e-10	8.41637e-10	8.40777e-10
1.00000	7.54966e-10	7.54430e-10	7.53552e-10	7.52304e-10	7.50644e-10
0.100000	6.58103e-10	6.45716e-10	6.31659e-10	6.15910e-10	5.98481e-10
0.0100000	2.86502e-10	2.60248e-10	2.35008e-10	2.10998e-10	1.88388e-10
0.00100000	1.14712e-11	9.21599e-12	7.39311e-12	5.92289e-12	4.73949e-12
0.000100000	1.87713e-11	1.43262e-11	1.09728e-11	8.43344e-12	6.50269e-12
1.00000e-05	1.69066e-17	1.31584e-17	1.02870e-17	8.07545e-18	6.36400e-18
1.00000e-06	3.79098e-20	3.04917e-20	2.46472e-20	2.00228e-20	1.63509e-20
1.00000e-07	2.94812e-22	2.52923e-22	2.18992e-22	1.91462e-22	1.69125e-22
1.00000e-08	1.08568e-23	1.00458e-23	9.36839e-24	8.80525e-24	8.34070e-24
1.00000e-09	8.80801e-25	8.34587e-25	7.95383e-25	7.62437e-25	7.35181e-25

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	2.32966e-10	2.79596e-10	3.35085e-10	6.29560e-10	3.69526e-09
1.00000e+07	2.16460e-09	2.57604e-09	3.05848e-09	5.32819e-09	2.43753e-08
1.00000e+06	1.17870e-08	1.32781e-08	1.48693e-08	1.88173e-08	4.03996e-08
100000.	8.95142e-09	9.20826e-09	9.44309e-09	1.01039e-08	1.36580e-08
10000.0	2.75645e-09	2.85708e-09	2.95842e-09	3.83072e-09	5.46990e-09
1000.00	1.96240e-09	1.99949e-09	2.03317e-09	2.48180e-09	2.82390e-09
100.000	1.21032e-09	1.20327e-09	1.19682e-09	1.50096e-09	1.65919e-09
10.0000	8.40149e-10	8.39768e-10	8.39650e-10	1.15625e-09	1.26241e-09
1.00000	7.48521e-10	7.45877e-10	7.42641e-10	1.00419e-09	8.85620e-10
0.100000	5.79423e-10	5.58825e-10	5.36816e-10	6.06731e-10	3.04993e-10
0.0100000	1.67300e-10	1.47810e-10	1.29950e-10	1.07857e-10	2.53394e-11
0.00100000	3.78867e-12	3.02599e-12	2.41511e-12	2.14126e-12	3.00233e-13
0.000100000	5.02912e-15	3.90058e-15	3.03356e-15	8.55630e-15	1.26707e-15
1.00000e-05	5.03397e-18	3.99642e-18	3.18430e-18	4.30651e-17	1.20413e-17
1.00000e-06	1.34273e-20	1.10953e-20	9.23382e-21	7.31999e-19	5.65456e-19
1.00000e-07	1.51041e-22	1.36482e-22	1.24880e-22	4.44885e-20	4.97726e-20
1.00000e-08	7.96307e-24	7.66250e-24	7.43222e-24	4.04984e-21	4.87088e-21
1.00000e-09	7.13172e-25	6.96080e-25	6.83682e-25	3.95886e-22	4.84855e-22

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	1.85064e-08	7.35054e-08	2.24081e-07	6.43979e-07	2.68075e-06
1.00000e+07	7.91745e-08	1.88967e-07	4.22388e-07	1.25725e-06	5.25845e-06
1.00000e+06	6.50505e-08	1.05374e-07	2.34878e-07	8.51654e-07	3.98100e-06
100000.	1.94016e-08	3.36518e-08	8.40195e-08	3.43083e-07	1.87369e-06
10000.0	7.69937e-09	1.27692e-08	3.17616e-08	1.40778e-07	8.78869e-07
1000.00	3.54830e-09	5.76680e-09	1.44080e-08	6.41623e-08	3.72182e-07
100.000	2.08648e-09	3.18371e-09	6.77450e-09	2.43405e-08	1.03856e-07
10.0000	1.38872e-09	1.57871e-09	2.28359e-09	5.61168e-09	1.66504e-08
1.00000	6.44774e-10	4.41983e-10	3.95221e-10	6.83212e-10	1.70390e-09
0.100000	1.18802e-10	4.68970e-11	2.82872e-11	4.85770e-11	1.48053e-10
0.0100000	5.42812e-12	1.43609e-12	9.41418e-13	3.34124e-12	1.37844e-11
0.00100000	5.01264e-14	1.70395e-14	4.40750e-14	3.02025e-13	1.36032e-12
0.000100000	3.63022e-16	6.22689e-16	3.94749e-15	2.98680e-14	1.35831e-13
1.00000e-05	1.40726e-17	5.47766e-17	3.90302e-16	2.98326e-15	1.35808e-14
1.00000e-06	1.19558e-18	5.33577e-18	3.89348e-17	2.98269e-16	1.35806e-15
1.00000e-07	1.14881e-19	5.28809e-19	3.89050e-18	2.98257e-17	1.35806e-16
1.00000e-08	1.14079e-20	5.27990e-20	3.89001e-19	2.98255e-18	1.35806e-17
1.00000e-09	1.13977e-21	5.27912e-21	3.88996e-20	2.98255e-19	1.35806e-18

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	1.38188e-05	5.65407e-05	0.000185082	0.000493518	0.000806256
1.00000e+07	2.12072e-05	6.35359e-05	0.000159419	0.000310638	0.000415112
1.00000e+06	1.63682e-05	4.57857e-05	8.87749e-05	0.000123684	0.000128180
100000.	8.68406e-06	2.32410e-05	3.67202e-05	4.04240e-05	3.53391e-05
10000.0	4.02643e-06	8.85752e-06	1.07699e-05	9.54144e-06	7.28529e-06
1000.00	1.33104e-06	2.16141e-06	2.04553e-06	1.54114e-06	1.07538e-06
100.000	2.62082e-07	3.26917e-07	2.64313e-07	1.83613e-07	1.23055e-07
10.0000	3.25559e-08	3.58102e-08	2.75631e-08	1.88215e-08	1.25319e-08
1.00000	3.19608e-09	3.51676e-09	2.72557e-09	1.87021e-09	1.24846e-09
0.100000	3.05205e-10	3.45792e-10	2.70609e-10	1.86346e-10	1.24576e-10
0.0100000	3.00585e-11	3.44266e-11	2.70151e-11	1.86191e-11	1.24512e-11
0.00100000	2.99846e-12	3.44031e-12	2.70079e-12	1.86165e-12	1.24501e-12

0.000100000	2.99761e-13	3.44003e-13	2.70070e-13	1.86161e-13	1.24499e-13
1.00000e-05	2.99752e-14	3.43999e-14	2.70068e-14	1.86161e-14	1.24499e-14
1.00000e-06	2.99751e-15	3.43998e-15	2.70068e-15	1.86161e-15	1.24499e-15
1.00000e-07	2.99751e-16	3.43998e-16	2.70068e-16	1.86161e-16	1.24499e-16
1.00000e-08	2.99751e-17	3.43998e-17	2.70068e-17	1.86161e-17	1.24499e-17
1.00000e-09	2.99751e-18	3.43998e-18	2.70068e-18	1.86161e-18	1.24499e-18

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.000799589	8.36038e-05	6.33240e-05	5.36743e-05	5.05079e-05
1.00000e+07	0.000413904	3.01335e-05	1.95630e-05	1.67669e-05	1.60230e-05
1.00000e+06	0.000110557	1.02145e-05	6.63690e-06	5.29821e-06	4.21850e-06
100000.	2.74245e-05	2.79265e-06	1.65580e-06	1.06564e-06	6.73574e-07
10000.0	5.23589e-06	5.23900e-07	2.61922e-07	1.39698e-07	7.72140e-08
1000.00	7.34075e-07	6.93047e-08	3.05817e-08	1.49265e-08	7.89022e-09
100.000	8.20753e-08	7.51555e-09	3.15919e-09	1.50496e-09	7.88584e-10
10.0000	8.32981e-09	7.61057e-10	3.16931e-10	1.50424e-10	7.87440e-11
1.00000	8.31001e-10	7.61400e-11	3.16926e-11	1.50387e-11	7.87213e-12
0.100000	8.29795e-11	7.61164e-12	3.16897e-12	1.50378e-12	7.87179e-13
0.0100000	8.29496e-12	7.61077e-13	3.16887e-13	1.50377e-13	7.87173e-14
0.00100000	8.29439e-13	7.61053e-14	3.16884e-14	1.50376e-14	7.87170e-15
0.000100000	8.29429e-14	7.61049e-15	3.16884e-15	1.50376e-15	7.87170e-16
1.00000e-05	8.29424e-15	7.61045e-16	3.16884e-16	1.50376e-16	7.87170e-17
1.00000e-06	8.29424e-16	7.61045e-17	3.16884e-17	1.50376e-17	7.87170e-18
1.00000e-07	8.29424e-17	7.61045e-18	3.16884e-18	1.50376e-18	7.87170e-19
1.00000e-08	8.29424e-18	7.61045e-19	3.16884e-19	1.50376e-19	7.87170e-20
1.00000e-09	8.29424e-19	7.61045e-20	3.16884e-20	1.50376e-20	7.87170e-21

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	4.94967e-05	4.86244e-05	4.69706e-05	4.42264e-05	4.04951e-05
1.00000e+07	1.49056e-05	1.31020e-05	1.09267e-05	8.75591e-06	6.83265e-06
1.00000e+06	3.15989e-06	2.26173e-06	1.58366e-06	1.10461e-06	7.76367e-07
100000.	4.20286e-07	2.64800e-07	1.70780e-07	1.13314e-07	7.73584e-08
10000.0	4.45782e-08	2.69799e-08	1.70665e-08	1.12235e-08	7.63219e-09
1000.00	4.47143e-09	2.68723e-09	1.69562e-09	1.11421e-09	7.57549e-10
100.000	4.45710e-10	2.67674e-10	1.68878e-10	1.10975e-10	7.54566e-11
10.0000	4.44991e-11	2.67249e-11	1.68622e-11	1.10814e-11	7.53515e-12
1.00000	4.44871e-12	2.67183e-12	1.68583e-12	1.10790e-12	7.53364e-13
0.100000	4.44853e-13	2.67176e-13	1.68579e-13	1.10787e-13	7.53347e-14
0.0100000	4.44850e-14	2.67174e-14	1.68578e-14	1.10787e-14	7.53345e-15
0.00100000	4.44850e-15	2.67174e-15	1.68578e-15	1.10787e-15	7.53345e-16
0.000100000	4.44850e-16	2.67174e-16	1.68578e-16	1.10787e-16	7.53345e-17
1.00000e-05	4.44850e-17	2.67174e-17	1.68578e-17	1.10787e-17	7.53345e-18
1.00000e-06	4.44850e-18	2.67174e-18	1.68578e-18	1.10787e-18	7.53345e-19
1.00000e-07	4.44850e-19	2.67174e-19	1.68578e-19	1.10787e-19	7.53345e-20
1.00000e-08	4.44850e-20	2.67174e-20	1.68578e-20	1.10787e-20	7.53345e-21
1.00000e-09	4.44850e-21	2.67174e-21	1.68578e-21	1.10787e-21	7.53345e-22

Pa\K	4000.00
1.00000e+08	3.61150e-05
1.00000e+07	5.25278e-06
1.00000e+06	5.53272e-07
100000.	5.42313e-08
10000.0	5.34180e-09
1000.00	5.30231e-10
100.000	5.28182e-11
10.0000	5.27473e-12
1.00000	5.27372e-13
0.100000	5.27362e-14
0.0100000	5.27360e-15
0.00100000	5.27360e-16
0.000100000	5.27360e-17
1.00000e-05	5.27360e-18
1.00000e-06	5.27360e-19
1.00000e-07	5.27360e-20
1.00000e-08	5.27360e-21
1.00000e-09	5.27360e-22

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	N/A	N/A	N/A	N/A	N/A
1.00000e+07	N/A	N/A	N/A	N/A	N/A
1.00000e+06	N/A	N/A	N/A	N/A	N/A
100000.	N/A	N/A	N/A	N/A	N/A
10000.0	N/A	N/A	N/A	N/A	N/A
1000.00	N/A	N/A	N/A	N/A	N/A

1.00000e+06	N/A	N/A	N/A	N/A	N/A
100000.	N/A	N/A	N/A	N/A	N/A
10000.0	N/A	N/A	N/A	N/A	N/A
1000.00	N/A	N/A	N/A	N/A	N/A
100.000	N/A	N/A	N/A	N/A	N/A
10.0000	N/A	N/A	N/A	N/A	N/A
1.00000	N/A	N/A	N/A	N/A	N/A
0.100000	N/A	N/A	N/A	N/A	N/A
0.0100000	N/A	N/A	N/A	N/A	N/A
0.00100000	N/A	N/A	N/A	N/A	N/A
0.000100000	N/A	N/A	N/A	N/A	N/A
1.00000e-05	N/A	N/A	N/A	N/A	N/A
1.00000e-06	N/A	N/A	N/A	N/A	N/A
1.00000e-07	N/A	N/A	N/A	N/A	N/A
1.00000e-08	N/A	N/A	N/A	N/A	N/A
1.00000e-09	N/A	N/A	N/A	N/A	N/A

Pa\K | 270.000 280.000 290.000 300.000 400.000

1.00000e+08	N/A	N/A	N/A	2.69625e-18	2.92716e-16
1.00000e+07	N/A	N/A	N/A	2.68825e-16	3.06676e-14
1.00000e+06	N/A	N/A	N/A	2.61366e-14	3.18814e-12
100000.	N/A	N/A	N/A	2.08971e-12	1.56501e-10
10000.0	N/A	N/A	N/A	8.08341e-11	3.10720e-09
1000.00	N/A	N/A	N/A	1.15845e-09	2.62483e-08
100.000	N/A	N/A	N/A	8.29786e-09	1.20248e-07
10.0000	N/A	N/A	N/A	3.53121e-08	4.69747e-07
1.00000	N/A	N/A	N/A	1.54081e-07	1.38942e-06
0.100000	N/A	N/A	N/A	4.43828e-07	2.25191e-06
0.0100000	N/A	N/A	N/A	6.52559e-07	2.51424e-06
0.00100000	N/A	N/A	N/A	6.98569e-07	2.55024e-06
0.000100000	N/A	N/A	N/A	7.03977e-07	2.55401e-06
1.00000e-05	N/A	N/A	N/A	7.04528e-07	2.55439e-06
1.00000e-06	N/A	N/A	N/A	7.04583e-07	2.55443e-06
1.00000e-07	N/A	N/A	N/A	7.04589e-07	2.55443e-06
1.00000e-08	N/A	N/A	N/A	7.04590e-07	2.55443e-06
1.00000e-09	N/A	N/A	N/A	7.04590e-07	2.55443e-06

Pa\K | 500.000 600.000 700.000 800.000 900.000

1.00000e+08	4.15128e-13	2.94723e-10	1.20176e-08	1.86086e-07	1.20201e-06
1.00000e+07	7.75298e-11	6.84135e-09	2.76813e-07	3.35715e-06	1.39605e-05
1.00000e+06	4.01613e-09	1.72552e-07	2.34200e-06	1.23394e-05	3.49363e-05
100000.	1.81476e-08	6.79451e-07	5.80126e-06	1.96981e-05	4.94001e-05
10000.0	8.55686e-08	1.25306e-06	7.86670e-06	2.93002e-05	8.73774e-05
1000.00	3.50059e-07	2.80626e-06	1.50552e-05	5.37336e-05	0.000137696
100.000	1.23067e-06	7.93535e-06	3.09508e-05	8.02651e-05	0.000158892
10.0000	3.68020e-06	1.56825e-05	4.34212e-05	9.16787e-05	0.000163001
1.00000	6.52495e-06	1.98791e-05	4.70321e-05	9.37561e-05	0.000163537
0.100000	7.67959e-06	2.07844e-05	4.75313e-05	9.39781e-05	0.000163596
0.0100000	7.87616e-06	2.08959e-05	4.75846e-05	9.40013e-05	0.000163603
0.00100000	7.89805e-06	2.09075e-05	4.75901e-05	9.40042e-05	0.000163603
0.000100000	7.90027e-06	2.09087e-05	4.75908e-05	9.40042e-05	0.000163603
1.00000e-05	7.90049e-06	2.09088e-05	4.75908e-05	9.40042e-05	0.000163603
1.00000e-06	7.90051e-06	2.09088e-05	4.75908e-05	9.40042e-05	0.000163603
1.00000e-07	7.90052e-06	2.09088e-05	4.75908e-05	9.40042e-05	0.000163603
1.00000e-08	7.90052e-06	2.09088e-05	4.75908e-05	9.40042e-05	0.000163603
1.00000e-09	7.90052e-06	2.09088e-05	4.75908e-05	9.40042e-05	0.000163603

Pa\K | 1000.00 1100.00 1200.00 1300.00 1400.00

1.00000e+08	3.26408e-06	4.94416e-06	5.79063e-06	5.91568e-06	5.50337e-06
1.00000e+07	2.95451e-05	4.48626e-05	6.13177e-05	8.11832e-05	9.67225e-05
1.00000e+06	7.17796e-05	0.000128953	0.000215185	0.000315950	0.000389452
100000.	0.000111208	0.000222501	0.000376764	0.000524100	0.000618971
10000.0	0.000201087	0.000354553	0.000510224	0.000634344	0.000718711
1000.00	0.000260784	0.000390595	0.000510239	0.000615456	0.000703785
100.000	0.000259402	0.000370196	0.000483928	0.000592852	0.000688565
10.0000	0.000255783	0.000363909	0.000478380	0.000588904	0.000686101
1.00000	0.000255334	0.000363233	0.000477837	0.000588546	0.000685890
0.100000	0.000255303	0.000363179	0.000477794	0.000588520	0.000685878
0.0100000	0.000255302	0.000363175	0.000477791	0.000588514	0.000685873
0.00100000	0.000255302	0.000363175	0.000477791	0.000588514	0.000685873
0.000100000	0.000255302	0.000363175	0.000477791	0.000588514	0.000685873
1.00000e-05	0.000255302	0.000363175	0.000477791	0.000588514	0.000685873
1.00000e-06	0.000255302	0.000363175	0.000477791	0.000588514	0.000685873
1.00000e-07	0.000255302	0.000363175	0.000477791	0.000588514	0.000685873
1.00000e-08	0.000255302	0.000363175	0.000477791	0.000588514	0.000685873
1.00000e-09	0.000255302	0.000363175	0.000477791	0.000588514	0.000685873

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	4.99278e-06	0.000171220	0.000173888	0.000167874	0.000160718
1.00000e+07	0.000102128	0.000227469	0.000220444	0.000214301	0.000215179
1.00000e+06	0.000422435	0.000299809	0.000312620	0.000339774	0.000356565
100000.	0.000664659	0.000491341	0.000533237	0.000538860	0.000500371
10000.0	0.000772345	0.000697228	0.000694865	0.000634040	0.000547283
1000.00	0.000772484	0.000764938	0.000735146	0.000651962	0.000554314
100.000	0.000764598	0.000774003	0.000740362	0.000654078	0.000555081
10.0000	0.000763289	0.000774836	0.000740904	0.000654295	0.000555160
1.00000	0.000763189	0.000774925	0.000740960	0.000654319	0.000555170
0.100000	0.000763187	0.000774932	0.000740966	0.000654319	0.000555170
0.0100000	0.000763188	0.000774933	0.000740966	0.000654319	0.000555170
0.00100000	0.000763188	0.000774933	0.000740966	0.000654319	0.000555170
0.000100000	0.000763188	0.000774933	0.000740966	0.000654319	0.000555170
1.00000e-05	0.000763188	0.000774933	0.000740966	0.000654319	0.000555170
1.00000e-06	0.000763188	0.000774933	0.000740966	0.000654319	0.000555170
1.00000e-07	0.000763188	0.000774933	0.000740966	0.000654319	0.000555170
1.00000e-08	0.000763188	0.000774933	0.000740966	0.000654319	0.000555170
1.00000e-09	0.000763188	0.000774933	0.000740966	0.000654319	0.000555170

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.000154793	0.000150400	0.000147294	0.000144884	0.000142478
1.00000e+07	0.000219508	0.000222001	0.000219484	0.000211493	0.000199342
1.00000e+06	0.000351258	0.000328081	0.000296026	0.000262330	0.000230984
100000.	0.000439999	0.000377291	0.000321430	0.000274805	0.000236859
10000.0	0.000460921	0.000386139	0.000325066	0.000276264	0.000237419
1000.00	0.000463563	0.000387123	0.000325430	0.000276397	0.000237463
100.000	0.000463839	0.000387223	0.000325466	0.000276409	0.000237469
10.0000	0.000463867	0.000387232	0.000325471	0.000276411	0.000237469
1.00000	0.000463869	0.000387232	0.000325470	0.000276411	0.000237469
0.100000	0.000463869	0.000387232	0.000325470	0.000276411	0.000237469
0.0100000	0.000463869	0.000387232	0.000325470	0.000276411	0.000237469
0.00100000	0.000463869	0.000387232	0.000325470	0.000276411	0.000237469
0.000100000	0.000463869	0.000387232	0.000325470	0.000276411	0.000237469
1.00000e-05	0.000463869	0.000387232	0.000325470	0.000276411	0.000237469
1.00000e-06	0.000463869	0.000387232	0.000325470	0.000276411	0.000237469
1.00000e-07	0.000463869	0.000387232	0.000325470	0.000276411	0.000237469
1.00000e-08	0.000463869	0.000387232	0.000325470	0.000276411	0.000237469
1.00000e-09	0.000463869	0.000387232	0.000325470	0.000276411	0.000237469

Pa\K	4000.00
1.00000e+08	0.000139523
1.00000e+07	0.000184908
1.00000e+06	0.000203541
100000.	0.000206169
10000.0	0.000206358
1000.00	0.000206370
100.000	0.000206372
10.0000	0.000206372
1.00000	0.000206372
0.100000	0.000206372
0.0100000	0.000206372
0.00100000	0.000206372
0.000100000	0.000206372
1.00000e-05	0.000206372
1.00000e-06	0.000206372
1.00000e-07	0.000206372
1.00000e-08	0.000206372
1.00000e-09	0.000206372

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	4.08956e-34	2.06288e-30	2.59921e-28	5.56923e-27	4.89315e-26
1.00000e+07	4.04663e-29	6.09925e-27	5.15973e-25	9.29882e-24	7.23391e-23
1.00000e+06	6.84875e-25	1.64908e-23	5.33356e-22	8.81818e-21	6.80671e-20
100000.	6.50785e-21	1.19386e-19	1.02968e-18	9.88513e-18	6.63281e-17
10000.0	5.98534e-17	8.78361e-16	4.24230e-15	1.60072e-14	5.76272e-14
1000.00	2.44158e-13	2.43171e-12	8.89481e-12	2.30184e-11	5.11955e-11
100.000	3.13323e-10	2.40642e-09	7.53573e-09	1.69050e-08	3.19866e-08
10.0000	1.50333e-07	6.92804e-07	1.51446e-06	2.54992e-06	3.77412e-06
1.00000	9.29971e-06	2.19650e-05	3.45741e-05	4.74627e-05	6.08883e-05
0.100000	0.000111464	0.000207874	0.000287427	0.000355454	0.000414528
0.0100000	0.000560588	0.000662309	0.000673400	0.000661411	0.000642199
0.00100000	0.000545274	0.000411909	0.000325565	0.000262382	0.000213503
0.000100000	9.95361e-05	2.98876e-05	1.22915e-05	5.96666e-06	3.21549e-06

1.00000e-05	4.75896e-07	5.21188e-08	1.41130e-08	5.49827e-09	2.60622e-09
1.00000e-06	3.30175e-10	3.90749e-11	1.18837e-11	5.13177e-12	2.66002e-12
1.00000e-07	4.67802e-13	7.92285e-14	3.00938e-14	1.52049e-14	9.19912e-15
1.00000e-08	2.48920e-15	6.62498e-16	3.56721e-16	2.21406e-16	1.87145e-16
1.00000e-09	5.83480e-17	2.10118e-17	1.92855e-17	2.35126e-17	4.77409e-18

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08	2.56963e-25	9.74331e-25	2.96613e-24	7.73686e-24	1.80445e-23
1.00000e+07	3.46240e-22	1.21991e-21	3.49893e-21	8.68821e-21	1.94448e-20
1.00000e+06	3.26537e-19	1.15466e-18	3.32247e-18	8.27001e-18	1.85372e-17
100000.	3.01031e-16	1.02817e-15	2.87494e-15	6.96487e-15	1.51910e-14
10000.0	1.86485e-13	5.20437e-13	1.26494e-12	2.74635e-12	5.45889e-12
1000.00	1.05513e-10	2.06726e-10	3.87547e-10	6.96831e-10	1.20561e-09
100.000	5.47366e-08	8.77980e-08	1.34669e-07	1.99846e-07	2.88955e-07
10.0000	5.18460e-06	6.79584e-06	8.63555e-06	1.07418e-05	1.31611e-05
1.00000	7.50637e-05	9.02057e-05	0.000106537	0.000124269	0.000143583
0.100000	0.000466150	0.000511352	0.000550867	0.000585211	0.000614744
0.0100000	0.000620522	0.000597931	0.000574885	0.000551442	0.000527529
0.00100000	0.000174582	0.000143060	0.000117267	9.60382e-05	7.85202e-05
0.000100000	1.86362e-06	1.13950e-06	7.25677e-07	4.77086e-07	3.21696e-07
1.00000e-05	1.39658e-09	8.13456e-10	5.03393e-10	3.25819e-10	2.18401e-10
1.00000e-06	1.54339e-12	9.65962e-13	6.39102e-13	4.41351e-13	3.14305e-13
1.00000e-07	5.93747e-15	4.30660e-15	3.17675e-15	2.40657e-15	1.95050e-15
1.00000e-08	1.44327e-16	1.09965e-16	9.18346e-17	1.01120e-16	7.02881e-17
1.00000e-09	1.90022e-17	6.65573e-18	6.68392e-18	2.22605e-18	4.36725e-18

Pa\K | 120.000 130.000 140.000 150.000 160.000

1.00000e+08	3.87550e-23	7.82921e-23	1.51129e-22	2.82092e-22	5.13837e-22
1.00000e+07	4.03300e-20	7.90831e-20	1.48803e-19	2.71705e-19	4.85607e-19
1.00000e+06	3.84715e-17	7.54171e-17	1.41729e-16	2.58203e-16	4.59921e-16
100000.	3.06405e-14	5.82692e-14	1.05976e-13	1.86318e-13	3.19241e-13
10000.0	1.01361e-11	1.78615e-11	3.02400e-11	4.96605e-11	7.96994e-11
1000.00	2.01610e-09	3.27524e-09	5.19450e-09	8.07841e-09	1.23648e-08
100.000	4.08919e-07	5.68145e-07	7.76760e-07	1.04688e-06	1.39293e-06
10.0000	1.59479e-05	1.91650e-05	2.28839e-05	2.71867e-05	3.21656e-05
1.00000	0.000164614	0.000187441	0.000212076	0.000238461	0.000266461
0.100000	0.000639731	0.000660384	0.000676886	0.000689411	0.000698130
0.0100000	0.000503053	0.000477950	0.000452211	0.000425884	0.000399083
0.00100000	6.40593e-05	5.21360e-05	4.23255e-05	3.42744e-05	2.76866e-05
0.000100000	2.21424e-07	1.55019e-07	1.10074e-07	7.90989e-08	5.74272e-08
1.00000e-05	1.50375e-10	1.05967e-10	7.60037e-11	5.53520e-11	4.08612e-11
1.00000e-06	2.29883e-13	1.71787e-13	1.31537e-13	1.01627e-13	8.10014e-14
1.00000e-07	1.61368e-15	1.36671e-15	1.20641e-15	1.07101e-15	1.01326e-15
1.00000e-08	6.34380e-17	5.94598e-17	7.36028e-17	5.40217e-17	7.18887e-17
1.00000e-09	5.67596e-18	2.21116e-17	5.31051e-17	1.68271e-17	3.27829e-18

Pa\K | 170.000 180.000 190.000 200.000 210.000

1.00000e+08	9.19833e-22	1.62701e-21	2.85528e-21	4.98648e-21	8.68485e-21
1.00000e+07	8.55173e-19	1.49143e-18	2.58574e-18	4.46876e-18	7.71330e-18
1.00000e+06	8.06216e-16	1.39766e-15	2.40500e-15	4.11821e-15	7.02969e-15
100000.	5.36393e-13	8.87955e-13	1.45335e-12	2.35805e-12	3.79976e-12
10000.0	1.25734e-10	1.95878e-10	3.02391e-10	4.63811e-10	7.08138e-10
1000.00	1.86799e-08	2.79130e-08	4.13123e-08	6.06080e-08	8.81625e-08
100.000	1.83200e-06	2.38428e-06	3.07348e-06	3.92741e-06	4.97851e-06
10.0000	3.79243e-05	4.45766e-05	5.22441e-05	6.10524e-05	7.11263e-05
1.00000	0.000295866	0.000326392	0.000357697	0.000389382	0.000421015
0.100000	0.000703206	0.000704802	0.000703074	0.000698170	0.000690236
0.0100000	0.000371974	0.000344766	0.000317700	0.000291029	0.000265005
0.00100000	2.23121e-05	1.79405e-05	1.43949e-05	1.15275e-05	9.21440e-06
0.000100000	4.20639e-08	3.10502e-08	2.30766e-08	1.72548e-08	1.29725e-08
1.00000e-05	3.05062e-11	2.30337e-11	1.75531e-11	1.35041e-11	1.04763e-11
1.00000e-06	6.47220e-14	5.34440e-14	4.49992e-14	3.85122e-14	3.41168e-14
1.00000e-07	9.01252e-16	9.30545e-16	8.98594e-16	9.10932e-16	9.33050e-16
1.00000e-08	5.62476e-17	9.56546e-17	7.04220e-17	4.33100e-17	1.05363e-16
1.00000e-09	7.89045e-19	4.49136e-19	2.34757e-18	1.03789e-18	8.03037e-19

Pa\K | 220.000 230.000 240.000 250.000 260.000

1.00000e+08	1.51072e-20	2.62687e-20	4.56761e-20	7.94137e-20	1.37977e-19
1.00000e+07	1.33128e-17	2.29911e-17	3.97362e-17	6.87126e-17	1.18797e-16
1.00000e+06	1.19743e-14	2.03641e-14	3.45785e-14	5.86058e-14	9.90794e-14
100000.	6.08915e-12	9.71270e-12	1.54295e-11	2.44185e-11	3.85001e-11
10000.0	1.07756e-09	1.63536e-09	2.47593e-09	3.73896e-09	5.62903e-09
1000.00	1.27148e-07	1.81751e-07	2.57396e-07	3.60984e-07	5.01135e-07
100.000	6.26437e-06	7.82832e-06	9.71962e-06	1.19936e-05	1.47116e-05
10.0000	8.25814e-05	9.55170e-05	0.000110005	0.000126083	0.000143744
1.00000	0.000452146	0.000482318	0.000511094	0.000538063	0.000562853

0.100000	0.000679415	0.000665851	0.000649700	0.000631134	0.000610342
0.0100000	0.000239868	0.000215832	0.000193074	0.000171735	0.000151913
0.00100000	7.35329e-06	5.85937e-06	4.66275e-06	3.70617e-06	2.94302e-06
0.000100000	9.80189e-09	7.44141e-09	5.67444e-09	4.34625e-09	3.34383e-09
1.00000e-05	8.21956e-12	6.51904e-12	5.23416e-12	4.27372e-12	3.55666e-12
1.00000e-06	3.10143e-14	2.91902e-14	2.84455e-14	2.87962e-14	3.01631e-14
1.00000e-07	9.59415e-16	1.07421e-15	1.20762e-15	1.34067e-15	1.57902e-15
1.00000e-08	7.04315e-17	8.57374e-17	1.55536e-16	1.94794e-16	1.36226e-16
1.00000e-09	4.24317e-19	1.87308e-19	1.11035e-17	6.32446e-18	3.01744e-18

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	2.39301e-19	4.13628e-19	7.11045e-19	1.86644e-17	8.11139e-15
1.00000e+07	2.05108e-16	3.53068e-16	6.04699e-16	1.57658e-14	4.37366e-12
1.00000e+06	1.66919e-13	2.79859e-13	4.66215e-13	7.90321e-12	8.38407e-10
100000.	6.04636e-11	9.45412e-11	1.47070e-10	1.40460e-09	5.39542e-08
10000.0	8.44207e-09	1.25997e-08	1.86921e-08	1.23983e-07	1.74437e-06
1000.00	6.88415e-07	9.35539e-07	1.25752e-06	4.37436e-06	2.38636e-05
100.000	1.79392e-05	2.17459e-05	2.62016e-05	5.42404e-05	0.000148323
10.0000	0.000162927	0.000183519	0.000205351	0.000296314	0.000436335
1.00000	0.000585140	0.000604647	0.000621158	0.000635715	0.000509743
0.100000	0.000585140	0.000562961	0.000536876	0.000417208	0.000177101
0.0100000	0.000133666	0.000117012	0.000101936	5.93261e-05	1.25854e-05
0.00100000	2.33515e-06	1.85172e-06	1.46783e-06	9.41828e-07	1.50833e-07
0.000100000	2.58455e-09	2.00832e-09	1.56979e-09	3.57103e-09	1.71763e-09
1.00000e-05	3.02513e-12	2.66933e-12	2.43113e-12	3.00473e-11	6.92317e-11
1.00000e-06	3.25197e-14	3.64632e-14	4.17410e-14	1.12514e-12	4.95519e-12
1.00000e-07	1.83124e-15	2.14745e-15	2.71339e-15	9.34749e-14	4.75003e-13
1.00000e-08	1.96891e-16	2.02263e-16	1.50335e-16	6.02065e-15	3.64171e-14
1.00000e-09	5.60491e-18	5.01360e-18	2.70170e-18	1.67330e-16	3.64535e-22

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	3.70714e-12	2.20963e-10	3.22120e-09	2.63624e-08	1.63130e-07
1.00000e+07	2.98425e-10	2.61654e-09	1.27925e-08	6.16569e-08	2.63053e-07
1.00000e+06	1.52296e-08	6.03924e-08	1.53797e-07	3.17982e-07	8.26286e-07
100000.	4.25193e-07	1.21720e-06	2.44029e-06	3.74098e-06	6.26011e-06
10000.0	6.82115e-06	1.42857e-05	2.28649e-05	2.61784e-05	2.79220e-05
1000.00	5.36083e-05	8.54510e-05	0.000102988	8.19971e-05	5.49755e-05
100.000	0.000213029	0.000248185	0.000204190	0.000106464	4.49887e-05
10.0000	0.000400546	0.000309565	0.000160825	5.45928e-05	1.53418e-05
1.00000	0.000283795	0.000138032	4.66414e-05	1.12708e-05	2.37640e-06
0.100000	5.82380e-05	1.96159e-05	5.19585e-06	1.09770e-06	2.12124e-07
0.0100000	2.96814e-06	1.05503e-06	3.28036e-07	7.97881e-08	1.69485e-08
0.00100000	6.82070e-08	5.20606e-08	2.30857e-08	6.63153e-09	1.52970e-09
0.000100000	3.07754e-09	3.76458e-09	1.95670e-09	6.09221e-10	1.46387e-10
1.00000e-05	2.14421e-10	3.15980e-10	1.77670e-10	5.79649e-11	1.42759e-11
1.00000e-06	1.83256e-11	2.92943e-11	1.70442e-11	5.67430e-12	1.41289e-12
1.00000e-07	1.74987e-12	2.88075e-12	1.68756e-12	5.64450e-13	1.41073e-13
1.00000e-08	1.79524e-13	2.89193e-13	1.67398e-13	5.59452e-14	1.40385e-14
1.00000e-09	5.39671e-14	2.98849e-14	3.31605e-14	6.67014e-15	1.45800e-15

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	6.85661e-07	1.86673e-06	4.29184e-06	9.46040e-06	1.42151e-05
1.00000e+07	9.01716e-07	2.53290e-06	5.83426e-06	1.02732e-05	1.27623e-05
1.00000e+06	2.35476e-06	5.63525e-06	9.66211e-06	1.15271e-05	1.02019e-05
100000.	1.06845e-05	1.55276e-05	1.71297e-05	1.41276e-05	9.38321e-06
10000.0	2.85245e-05	2.55262e-05	1.86292e-05	1.11352e-05	5.84693e-06
1000.00	3.47904e-05	2.03010e-05	1.04987e-05	4.88029e-06	2.14565e-06
100.000	1.85285e-05	7.60477e-06	3.02832e-06	1.17713e-06	4.58091e-07
10.0000	4.48157e-06	1.41878e-06	4.72758e-07	1.64281e-07	5.97146e-08
1.00000	5.58888e-07	1.52877e-07	4.66626e-08	1.54820e-08	5.51953e-09
0.100000	4.75470e-08	1.27189e-08	3.84916e-09	1.27359e-09	4.54401e-10
0.0100000	4.01012e-09	1.10251e-09	3.37235e-10	1.11495e-10	3.94345e-11
0.00100000	3.74821e-10	1.04394e-10	3.20031e-11	1.05292e-11	3.68167e-12
0.000100000	3.64518e-11	1.02065e-11	3.13056e-12	1.02720e-12	3.56933e-13
1.00000e-05	3.58942e-12	1.00829e-12	3.09454e-13	1.01436e-13	3.51500e-14
1.00000e-06	3.56742e-13	1.00351e-13	3.08107e-14	1.00956e-14	3.49461e-15
1.00000e-07	3.56733e-14	1.00332e-14	3.07927e-15	1.00853e-15	3.49194e-16
1.00000e-08	3.55898e-15	1.00239e-15	3.08445e-16	1.00771e-16	3.49429e-17
1.00000e-09	3.61766e-16	9.99544e-17	3.04658e-17	9.89923e-18	2.97574e-18

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	1.36133e-05	6.20188e-07	5.08197e-07	4.45283e-07	4.20736e-07
1.00000e+07	1.21660e-05	3.56257e-07	2.31002e-07	2.01913e-07	1.88797e-07
1.00000e+06	7.59247e-06	3.26757e-07	1.77952e-07	1.19452e-07	8.07626e-08
100000.	5.58783e-06	2.39880e-07	9.01695e-08	4.01884e-08	1.88462e-08
10000.0	2.91766e-06	1.03273e-07	2.55591e-08	7.83909e-09	2.78685e-09

1000.00	9.34485e-07	2.66600e-08	4.65018e-09	1.08979e-09	3.29300e-10
100.000	1.81978e-07	4.54405e-09	6.30958e-10	1.26880e-10	3.56150e-11
10.0000	2.27323e-08	5.67326e-10	7.14032e-11	1.34959e-11	3.69298e-12
1.00000	2.09983e-09	5.77704e-11	7.22072e-12	1.34787e-12	3.66021e-13
0.100000	1.74013e-10	5.24361e-12	6.74903e-13	1.26814e-13	3.43509e-14
0.0100000	1.49143e-11	4.57946e-13	6.06814e-14	1.15306e-14	3.12081e-15
0.00100000	1.36775e-12	4.09184e-14	5.50754e-15	1.05511e-15	2.85197e-16
0.000100000	1.31137e-13	3.81348e-15	5.15815e-16	9.91966e-17	2.67661e-17
1.00000e-05	1.28425e-14	3.66309e-16	4.95443e-17	9.54499e-18	2.57285e-18
1.00000e-06	1.27331e-15	3.57561e-17	4.82968e-18	9.32007e-19	2.51281e-19
1.00000e-07	1.27010e-16	3.54500e-18	4.78205e-19	9.23497e-20	2.48869e-20
1.00000e-08	1.26900e-17	3.53471e-19	4.75712e-20	9.18516e-21	2.47270e-21
1.00000e-09	1.07588e-18	3.32105e-20	4.48049e-21	8.64887e-22	2.33207e-22

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	4.10695e-07	4.01190e-07	3.85507e-07	3.61759e-07	3.31236e-07
1.00000e+07	1.68657e-07	1.41805e-07	1.13259e-07	8.71902e-08	6.56601e-08
1.00000e+06	5.24346e-08	3.30684e-08	2.06682e-08	1.30266e-08	8.38323e-09
100000.	9.13306e-09	4.64108e-09	2.49898e-09	1.42865e-09	8.64532e-10
10000.0	1.12714e-09	5.15432e-10	2.62308e-10	1.45713e-10	8.69049e-11
1000.00	1.22589e-10	5.39951e-11	2.70337e-11	1.49034e-11	8.85164e-12
100.000	1.28654e-11	5.59496e-12	2.78193e-12	1.52610e-12	9.02672e-13
10.0000	1.31986e-12	5.70130e-13	2.81862e-13	1.53808e-13	9.05201e-14
1.00000	1.30125e-13	5.59515e-14	2.75427e-14	1.49665e-14	8.77028e-15
0.100000	1.21795e-14	5.22931e-15	2.57191e-15	1.39608e-15	8.16742e-16
0.0100000	1.10586e-15	4.75484e-16	2.34344e-16	1.27408e-16	7.45732e-17
0.00100000	1.01015e-16	4.35088e-17	2.14960e-17	1.17095e-17	6.86001e-18
0.000100000	9.47296e-18	4.08413e-18	2.02090e-18	1.10216e-18	6.46018e-19
1.00000e-05	8.10503e-19	3.93022e-19	1.94797e-19	1.06394e-19	6.24252e-20
1.00000e-06	8.89949e-20	3.84734e-20	1.91048e-20	1.04496e-20	6.13964e-21
1.00000e-07	8.83431e-21	3.82105e-21	1.89870e-21	1.03924e-21	6.10985e-22
1.00000e-08	8.80678e-22	3.80163e-22	1.88763e-22	1.03155e-22	6.07018e-23
1.00000e-09	8.26877e-23	3.58101e-23	1.78086e-23	9.75278e-24	5.73280e-24

Pa\K	4000.00
1.00000e+08	2.96757e-07
1.00000e+07	4.90105e-08
1.00000e+06	5.55181e-09
100000.	5.51158e-10
10000.0	5.49838e-11
1000.00	5.58500e-12
100.000	5.67435e-13
10.0000	5.66237e-14
1.00000	5.46094e-15
0.100000	5.07314e-16
0.0100000	4.62860e-17
0.00100000	4.25719e-18
0.000100000	4.00807e-19
1.00000e-05	3.87544e-20
1.00000e-06	3.81508e-21
1.00000e-07	3.79911e-22
1.00000e-08	3.76789e-23
1.00000e-09	3.56211e-24

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	3.28001e-27	3.42992e-24	2.22580e-22	3.04225e-21	1.89663e-20
1.00000e+07	9.12895e-24	4.30048e-22	2.25599e-20	3.04739e-19	1.89604e-18
1.00000e+06	1.27588e-20	1.42892e-19	2.58468e-18	3.10334e-17	1.89104e-16
100000.	1.30669e-17	1.10828e-16	5.69798e-16	3.62753e-15	1.84980e-14
10000.0	1.11845e-14	8.02760e-14	2.52746e-13	6.67587e-13	1.75096e-12
1000.00	4.37069e-12	2.12324e-11	5.15232e-11	9.89074e-11	1.71772e-10
100.000	5.50065e-10	2.11864e-09	4.50585e-09	7.70895e-09	1.18201e-08
10.0000	3.04584e-08	8.16324e-08	1.38488e-07	2.01331e-07	2.71708e-07
1.00000	5.17616e-07	1.09651e-06	1.69660e-06	2.34567e-06	3.06469e-06
0.100000	5.48573e-06	1.11596e-05	1.69464e-05	2.31018e-05	2.97935e-05
0.0100000	5.14002e-05	9.70539e-05	0.000137201	0.000173788	0.000207417
0.00100000	0.000282220	0.000336580	0.000326869	0.000297644	0.000262989
0.000100000	0.000150412	5.41076e-05	2.46212e-05	1.28571e-05	7.34195e-06
1.00000e-05	1.38063e-06	1.98804e-07	6.42077e-08	2.85351e-08	1.50243e-08
1.00000e-06	2.94875e-09	5.53758e-10	2.21825e-10	1.16336e-10	6.99357e-11
1.00000e-07	2.21636e-11	6.48970e-12	3.29554e-12	2.02591e-12	1.37074e-12
1.00000e-08	6.42199e-13	2.62326e-13	1.57185e-13	1.07261e-13	7.81191e-14
1.00000e-09	4.55502e-14	2.14726e-14	1.36084e-14	9.57229e-15	7.10650e-15

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
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1.00000e+08	7.52597e-20	2.24624e-19	5.53648e-19	1.19283e-18	2.33097e-18
1.00000e+07	7.51819e-18	2.24292e-17	5.52624e-17	1.19021e-16	2.32499e-16
1.00000e+06	7.44261e-16	2.21041e-15	5.42617e-15	1.16458e-14	2.26686e-14
100000.	6.79175e-14	1.93552e-13	4.59956e-13	9.58395e-13	1.81215e-12
10000.0	4.36752e-12	9.85088e-12	1.99646e-11	3.68696e-11	6.31452e-11
1000.00	2.84332e-10	4.56665e-10	7.14400e-10	1.08888e-09	1.61816e-09
100.000	1.70085e-08	2.35221e-08	3.16899e-08	4.19271e-08	5.47468e-08
10.0000	3.51695e-07	4.44058e-07	5.52360e-07	6.81017e-07	8.35422e-07
1.00000	3.87556e-06	4.80558e-06	5.88893e-06	7.16714e-06	8.68969e-06
0.100000	3.71761e-05	4.54234e-05	5.47275e-05	6.52835e-05	7.72710e-05
0.0100000	0.000238182	0.000265967	0.000290513	0.000311478	0.000328497
0.00100000	0.000228348	0.000195947	0.000166643	0.000140673	0.000117985
0.000100000	4.46570e-06	2.84623e-06	1.87993e-06	1.27675e-06	8.86510e-07
1.00000e-05	8.78562e-09	5.51461e-09	3.64059e-09	2.49479e-09	1.75884e-09
1.00000e-06	4.56493e-11	3.14694e-11	2.25421e-11	1.66049e-11	1.24904e-11
1.00000e-07	9.82527e-13	7.31655e-13	5.59536e-13	4.36201e-13	3.44912e-13
1.00000e-08	5.91910e-14	4.60490e-14	3.64928e-14	2.93064e-14	2.37655e-14
1.00000e-09	5.45653e-15	4.28670e-15	3.42275e-15	2.76520e-15	2.25337e-15

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	4.23719e-18	7.29488e-18	1.20531e-17	1.93036e-17	3.01958e-17
1.00000e+07	4.22469e-16	7.27030e-16	1.20068e-15	1.92195e-15	3.00462e-15
1.00000e+06	4.10359e-14	7.03309e-14	1.15629e-13	1.84161e-13	2.86280e-13
100000.	3.18477e-12	5.29252e-12	8.42225e-12	1.29561e-11	1.94052e-11
10000.0	1.01882e-10	1.56853e-10	2.32770e-10	3.35635e-10	4.73207e-10
1000.00	2.34914e-09	3.34075e-09	4.66840e-09	6.42998e-09	8.75368e-09
100.000	7.07834e-08	9.08256e-08	1.15864e-07	1.47155e-07	1.86294e-07
10.0000	1.02215e-06	1.24927e-06	1.52681e-06	1.86731e-06	2.28651e-06
1.00000	1.05151e-05	1.27127e-05	1.53643e-05	1.85665e-05	2.24315e-05
0.100000	9.08355e-05	0.000106070	0.000122999	0.000141559	0.000161591
0.0100000	0.000341249	0.000349517	0.000353228	0.000352459	0.000347440
0.00100000	9.83870e-05	8.16163e-05	6.73821e-05	5.53882e-05	4.53472e-05
0.000100000	6.26657e-07	4.49520e-07	3.26409e-07	2.39454e-07	1.77196e-07
1.00000e-05	1.26770e-09	9.29878e-10	6.91813e-10	5.20695e-10	3.95680e-10
1.00000e-06	9.54783e-12	7.39085e-12	5.77867e-12	4.55469e-12	3.61359e-12
1.00000e-07	1.75664e-13	2.22135e-13	1.80148e-13	1.46832e-13	1.20154e-13
1.00000e-08	1.94125e-14	1.59439e-14	1.31497e-14	1.08800e-14	9.02417e-15
1.00000e-09	1.84812e-15	1.52313e-15	1.25993e-15	1.04514e-15	8.68839e-16

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	4.64062e-17	7.03906e-17	1.05754e-16	1.57798e-16	2.34326e-16
1.00000e+07	4.61451e-15	6.99399e-15	1.04983e-14	1.56484e-14	2.32095e-14
1.00000e+06	4.36863e-13	6.57327e-13	9.78517e-13	1.44481e-12	2.11990e-12
100000.	2.84541e-11	4.10198e-11	5.83300e-11	8.20233e-11	1.14281e-10
10000.0	6.55623e-10	8.96222e-10	1.21261e-09	1.62812e-09	2.17366e-09
1000.00	1.18080e-08	1.58148e-08	2.10657e-08	2.79440e-08	3.69508e-08
100.000	2.35326e-07	2.96864e-07	3.74256e-07	4.71791e-07	5.94950e-07
10.0000	2.80427e-06	3.44555e-06	4.24171e-06	5.23183e-06	6.46429e-06
1.00000	2.70885e-05	3.26812e-05	3.93656e-05	4.73032e-05	5.66526e-05
0.100000	0.000182833	0.000204921	0.000227401	0.000249748	0.000271393
0.0100000	0.000338535	0.000326216	0.000311028	0.000293560	0.000274414
0.00100000	3.69902e-05	3.00714e-05	2.43707e-05	1.96942e-05	1.58730e-05
0.000100000	1.32100e-07	9.91124e-08	7.47748e-08	5.66862e-08	4.31556e-08
1.00000e-05	3.03100e-10	2.33757e-10	1.81318e-10	1.41337e-10	1.10641e-10
1.00000e-06	2.88245e-12	2.30955e-12	1.85743e-12	1.49851e-12	1.21216e-12
1.00000e-07	9.86357e-14	8.11769e-14	6.69446e-14	5.52983e-14	4.57387e-14
1.00000e-08	7.49907e-15	6.24075e-15	5.19928e-15	4.33519e-15	3.61693e-15
1.00000e-09	7.23454e-16	6.03141e-16	5.03299e-16	4.20269e-16	3.51104e-16

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	3.46815e-16	5.12154e-16	7.55146e-16	1.11214e-15	1.63626e-15
1.00000e+07	3.43037e-14	5.05762e-14	7.44344e-14	1.09392e-13	1.60554e-13
1.00000e+06	3.09502e-12	4.50023e-12	6.52016e-12	9.41537e-12	1.35512e-11
100000.	1.58002e-10	2.17016e-10	2.96382e-10	4.02745e-10	5.44814e-10
10000.0	2.89025e-09	3.83236e-09	5.07221e-09	6.70549e-09	8.85874e-09
1000.00	4.87403e-08	6.41629e-08	8.43200e-08	1.10633e-07	1.44928e-07
100.000	7.50729e-07	9.48035e-07	1.19817e-06	1.51543e-06	1.91776e-06
10.0000	7.99842e-06	9.90594e-06	1.22726e-05	1.51985e-05	1.87986e-05
1.00000	6.75580e-05	8.01364e-05	9.44620e-05	0.000110555	0.000128364
0.100000	0.000291752	0.000310258	0.000326397	0.000339729	0.000349914
0.0100000	0.000254169	0.000233370	0.000212502	0.000191981	0.000172152
0.00100000	1.27623e-05	1.02383e-05	8.19672e-06	6.54996e-06	5.22510e-06
0.000100000	3.29778e-08	2.52840e-08	1.94429e-08	1.49913e-08	1.15870e-08
1.00000e-05	8.69310e-11	6.85232e-11	5.41674e-11	4.29279e-11	3.40982e-11
1.00000e-06	9.82748e-13	7.98304e-13	6.49574e-13	5.29337e-13	4.31924e-13
1.00000e-07	3.78723e-14	3.13864e-14	2.60300e-14	2.16008e-14	1.79343e-14

1.00000e-08	3.01901e-15	2.52075e-15	2.10521e-15	1.75844e-15	1.46897e-15
1.00000e-09	2.93421e-16	2.45269e-16	2.05048e-16	1.71437e-16	1.43342e-16

Pa\K	270.000	280.000	290.000	300.000	400.000
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1.00000e+08	2.40463e-15	3.52844e-15	5.16614e-15	3.55977e-14	1.32458e-12
1.00000e+07	2.35300e-13	3.44203e-13	5.02239e-13	3.25744e-12	1.02989e-10
1.00000e+06	1.94358e-11	2.77681e-11	3.94981e-11	1.87863e-10	3.71401e-09
100000.	7.33947e-10	9.84878e-10	1.31659e-09	4.34388e-09	6.46544e-08
10000.0	1.16988e-08	1.54442e-08	2.03798e-08	7.49693e-08	9.53941e-07
1000.00	1.89543e-07	2.47446e-07	3.22388e-07	1.08227e-06	1.02527e-05
100.000	2.42762e-06	3.07284e-06	3.88754e-06	1.10294e-05	7.38952e-05
10.0000	2.32018e-05	2.85481e-05	3.49853e-05	7.92740e-05	0.000273483
1.00000	0.000147768	0.000168561	0.000190462	0.000285195	0.000386014
0.100000	0.000356722	0.000360041	0.000359882	0.000327731	0.000161573
0.0100000	0.000153285	0.000135576	0.000119159	7.03237e-05	1.40346e-05
0.00100000	4.16175e-06	3.31013e-06	2.62945e-06	1.61368e-06	1.90798e-07
0.000100000	8.97565e-09	6.96710e-09	5.41836e-09	9.86651e-09	1.21432e-09
1.00000e-05	2.71407e-11	2.16437e-11	1.72906e-11	1.09776e-10	1.66768e-11
1.00000e-06	3.52856e-13	2.88575e-13	2.36244e-13	3.25672e-12	5.71669e-13
1.00000e-07	1.48969e-14	1.23789e-14	1.02905e-14	1.72157e-13	3.27377e-14
1.00000e-08	1.22725e-15	1.02539e-15	8.56801e-16	1.41178e-14	2.79984e-15
1.00000e-09	1.19855e-16	1.00218e-16	8.38018e-17	1.37573e-15	2.74592e-16

Pa\K	500.000	600.000	700.000	800.000	900.000
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1.00000e+08	7.84724e-11	8.91365e-09	1.13098e-07	6.74223e-07	4.12330e-06
1.00000e+07	2.63258e-09	5.52930e-08	4.68450e-07	2.83724e-06	1.66854e-05
1.00000e+06	5.37794e-08	5.29431e-07	3.72644e-06	1.97314e-05	7.95586e-05
100000.	7.58873e-07	6.11269e-06	3.35631e-05	0.000121475	0.000307361
10000.0	8.70310e-06	5.14903e-05	0.000186259	0.000412736	0.000620581
1000.00	6.62640e-05	0.000238110	0.000480029	0.000607287	0.000542741
100.000	0.000264979	0.000478694	0.000503386	0.000364572	0.000199648
10.0000	0.000437648	0.000374539	0.000207723	8.95425e-05	3.18601e-05
1.00000	0.000259604	0.000108038	3.35180e-05	9.28726e-06	2.34462e-06
0.100000	4.79999e-05	1.06469e-05	2.06192e-06	4.13022e-07	8.33595e-08
0.0100000	2.17860e-06	3.09715e-07	4.51341e-08	7.85843e-09	1.52069e-09
0.00100000	2.25371e-08	2.90344e-09	4.36387e-10	8.63016e-11	2.03995e-11
0.000100000	1.65584e-10	2.64833e-11	5.14916e-12	1.30738e-12	4.05841e-13
1.00000e-05	2.79065e-12	5.45925e-13	1.28744e-13	3.91779e-14	1.48884e-14
1.00000e-06	1.07745e-13	2.32126e-14	6.00901e-15	2.04062e-15	8.80895e-16
1.00000e-07	6.59841e-15	1.50258e-15	4.10830e-16	1.48144e-16	6.83236e-17
1.00000e-08	5.81176e-16	1.35205e-16	3.76432e-17	1.37913e-17	6.46846e-18
1.00000e-09	5.72350e-17	1.33531e-17	3.72636e-18	1.36783e-18	6.42831e-19

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
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1.00000e+08	1.71934e-05	4.14005e-05	8.53387e-05	0.000162466	0.000230715
1.00000e+07	6.29237e-05	0.000144450	0.000240889	0.000305970	0.000312185
1.00000e+06	0.000218314	0.000397945	0.000495315	0.000456231	0.000368292
100000.	0.000532849	0.000651023	0.000588492	0.000435348	0.000312122
10000.0	0.000665290	0.000542529	0.000361990	0.000222262	0.000144869
1000.00	0.000371668	0.000211346	0.000109679	5.85550e-05	3.56067e-05
100.000	9.17788e-05	3.88984e-05	1.68137e-05	8.20624e-06	4.80363e-06
10.0000	1.05846e-05	3.61076e-06	1.38901e-06	6.51905e-07	3.84431e-07
1.00000	6.16533e-07	1.84498e-07	6.82324e-08	3.30879e-08	2.12386e-08
0.100000	1.95407e-08	5.76726e-09	2.30210e-09	1.29427e-09	1.01055e-09
0.0100000	3.80636e-10	1.32257e-10	6.70953e-11	4.99162e-11	5.15485e-11
0.00100000	6.70650e-12	3.22378e-12	2.29639e-12	2.34135e-12	3.14386e-12
0.000100000	1.78982e-13	1.15861e-13	1.08895e-13	1.40987e-13	2.27976e-13
1.00000e-05	8.03545e-15	6.28445e-15	7.00007e-15	1.04713e-14	1.88886e-14
1.00000e-06	5.33510e-16	4.61207e-16	5.60071e-16	8.99833e-16	1.71226e-15
1.00000e-07	4.38358e-17	3.98096e-17	5.03896e-17	8.36972e-17	1.63255e-16
1.00000e-08	4.20713e-18	3.86321e-18	4.93357e-18	8.25118e-18	1.61747e-17
1.00000e-09	4.18767e-19	3.85023e-19	4.92196e-19	8.23816e-19	1.61581e-18

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
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1.00000e+08	0.000263212	8.07181e-05	7.56868e-05	7.56301e-05	8.00739e-05
1.00000e+07	0.000318996	0.000130360	9.36108e-05	7.56898e-05	7.20549e-05
1.00000e+06	0.000307581	0.000184540	0.000121122	7.07921e-05	4.45892e-05
100000.	0.000244327	0.000149823	7.30055e-05	2.76244e-05	1.15866e-05
10000.0	0.000107231	5.81019e-05	1.99046e-05	5.26455e-06	1.67403e-06
1000.00	2.51565e-05	1.18371e-05	3.09859e-06	6.58694e-07	1.82526e-07
100.000	3.32426e-06	1.50710e-06	3.48161e-07	6.81707e-08	1.81144e-08
10.0000	2.74927e-07	1.45123e-07	3.39861e-08	6.66564e-09	1.76800e-09
1.00000	1.71183e-08	1.26368e-08	3.21757e-09	6.48570e-10	1.73211e-10
0.100000	1.00512e-09	1.10679e-09	3.07089e-10	6.35122e-11	1.70698e-11
0.0100000	6.50100e-11	1.00318e-10	2.96880e-11	6.25804e-12	1.68979e-12
0.00100000	4.80097e-12	9.37416e-12	2.89931e-12	6.19396e-13	1.67802e-13

0.000100000	3.95188e-13	8.95956e-13	2.85257e-13	6.15030e-14	1.67000e-14
1.00000e-05	3.52171e-14	8.72891e-14	2.82605e-14	6.12596e-15	1.66563e-15
1.00000e-06	3.30983e-15	8.68161e-15	2.82078e-15	6.12126e-16	1.66482e-16
1.00000e-07	3.20995e-16	8.67631e-16	2.82020e-16	6.12076e-17	1.66473e-17
1.00000e-08	3.19110e-17	8.67580e-17	2.82014e-17	6.12070e-18	1.66472e-18
1.00000e-09	3.18902e-18	8.67576e-18	2.82014e-18	6.12070e-19	1.66472e-19

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	8.41122e-05	8.65581e-05	8.59939e-05	8.18540e-05	7.46702e-05
1.00000e+07	6.54046e-05	5.43117e-05	4.17839e-05	3.04459e-05	2.14485e-05
1.00000e+06	2.73158e-05	1.60064e-05	9.15750e-06	5.23482e-06	3.04220e-06
100000.	5.14531e-06	2.36789e-06	1.13895e-06	5.77914e-07	3.10384e-07
10000.0	6.18651e-07	2.54216e-07	1.14495e-07	5.60159e-08	2.94967e-08
1000.00	6.27511e-08	2.49010e-08	1.10362e-08	5.36008e-09	2.81270e-09
100.000	6.12113e-09	2.41296e-09	1.06670e-09	5.17496e-10	2.71385e-10
10.0000	5.96969e-10	2.35265e-10	1.03989e-10	5.04420e-11	2.64481e-11
1.00000	5.85962e-11	2.31061e-11	1.02148e-11	4.95493e-12	2.59784e-12
0.100000	5.78449e-12	2.28217e-12	1.00907e-12	4.89492e-13	2.56635e-13
0.0100000	5.73338e-13	2.26288e-13	1.00067e-13	4.85437e-14	2.54509e-14
0.00100000	5.69847e-14	2.24971e-14	9.94945e-15	4.82680e-15	2.53069e-15
0.000100000	5.67470e-15	2.24075e-15	9.91052e-16	4.80808e-16	2.52091e-16
1.00000e-05	5.66204e-16	2.23608e-16	9.89065e-17	4.79868e-17	2.51610e-17
1.00000e-06	5.65974e-17	2.23525e-17	9.88721e-18	4.79710e-18	2.51530e-18
1.00000e-07	5.65948e-18	2.23517e-18	9.88684e-19	4.79693e-19	2.51521e-19
1.00000e-08	5.65945e-19	2.23516e-19	9.88679e-20	4.79691e-20	2.51521e-20
1.00000e-09	5.65945e-20	2.23516e-20	9.88679e-21	4.79691e-21	2.51521e-21

Pa\K	4000.00
1.00000e+08	6.56162e-05
1.00000e+07	1.48587e-05
1.00000e+06	1.81701e-06
100000.	1.76198e-07
10000.0	1.65656e-08
1000.00	1.57670e-09
100.000	1.52058e-10
10.0000	1.48156e-11
1.00000	1.45510e-12
0.100000	1.43740e-13
0.0100000	1.42549e-14
0.00100000	1.41742e-15
0.000100000	1.41196e-16
1.00000e-05	1.40933e-17
1.00000e-06	1.40890e-18
1.00000e-07	1.40885e-19
1.00000e-08	1.40884e-20
1.00000e-09	1.40884e-21

PAH1+H
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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	6.49593e-68	2.53493e-65	4.23105e-63	1.84449e-61	4.45006e-60
1.00000e+07	8.35612e-64	4.27516e-62	4.35429e-60	1.83220e-58	4.38300e-57
1.00000e+06	7.28000e-60	1.67275e-58	5.03572e-57	1.68413e-55	3.77136e-54
100000.	4.21612e-56	7.36979e-55	7.35656e-54	1.00750e-52	1.53142e-51
10000.0	1.10952e-52	1.29193e-51	8.17664e-51	5.24575e-50	4.08283e-49
1000.00	8.52121e-50	6.55348e-49	3.08314e-48	1.45858e-47	8.14476e-47
100.000	1.52833e-47	8.35780e-47	3.36695e-46	1.43348e-45	7.45072e-45
10.0000	1.45083e-45	7.12023e-45	2.61556e-44	1.02525e-43	4.96920e-43
1.00000	7.17981e-44	2.17459e-43	5.69415e-43	1.72507e-42	6.80165e-42
0.100000	4.20934e-43	4.74348e-43	6.26794e-43	1.10327e-42	2.76571e-42
0.0100000	2.24442e-44	2.85061e-45	1.14021e-45	9.46921e-46	1.44633e-45
0.00100000	2.30008e-48	1.50008e-49	5.79098e-50	5.60578e-50	1.19670e-49
0.000100000	2.53797e-52	4.67267e-53	3.90739e-53	8.02211e-53	4.47275e-52
1.00000e-05	1.28627e-54	7.08951e-55	1.02622e-54	3.19497e-54	2.60754e-53
1.00000e-06	7.61510e-56	5.43141e-56	8.66425e-56	2.87262e-55	2.46210e-54
1.00000e-07	7.18888e-57	5.28180e-57	8.51459e-57	2.84174e-56	2.44792e-55
1.00000e-08	7.14717e-58	5.26700e-58	8.49972e-58	2.83867e-57	2.44651e-56
1.00000e-09	7.14300e-59	5.26552e-59	8.49824e-59	2.83836e-58	2.44637e-57

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	8.54302e-59	1.67404e-57	4.35335e-56	1.99073e-54	1.65225e-52
1.00000e+07	8.37220e-56	1.63380e-54	4.23484e-53	1.93381e-51	1.60611e-49
1.00000e+06	6.90782e-53	1.30129e-51	3.28125e-50	1.48233e-48	1.24070e-46
100000.	2.26563e-50	3.67348e-49	8.37086e-48	3.68425e-46	3.23399e-44
10000.0	3.99545e-48	5.11751e-47	1.01700e-45	4.17482e-44	3.61812e-42
1000.00	5.98735e-46	6.33892e-45	1.13228e-43	4.41018e-42	3.73817e-40

100.000	5.31428e-44	5.65286e-43	1.03137e-41	4.09764e-40	3.49855e-38
10.0000	3.35205e-42	3.40030e-41	5.93332e-40	2.27267e-38	1.90567e-36
1.00000	3.86606e-41	3.39059e-40	5.24486e-39	1.86399e-37	1.55669e-35
0.100000	1.06955e-41	6.79010e-41	8.39260e-40	3.08904e-38	3.73000e-36
0.0100000	4.12350e-45	2.46801e-44	6.06874e-43	1.36008e-40	7.59137e-38
0.00100000	6.83659e-49	2.22792e-47	6.19193e-45	5.22885e-42	4.91120e-39
0.000100000	8.86362e-51	1.03877e-48	4.73915e-46	4.67485e-43	4.66999e-40
1.00000e-05	6.94696e-52	9.64353e-50	4.61286e-47	4.62187e-44	4.64617e-41
1.00000e-06	6.77831e-53	9.57247e-51	4.60041e-48	4.61659e-45	4.64379e-42
1.00000e-07	6.76166e-54	9.56540e-52	4.59917e-49	4.61607e-46	4.64355e-43
1.00000e-08	6.76000e-55	9.56469e-53	4.59904e-50	4.61601e-47	4.64353e-44
1.00000e-09	6.75983e-56	9.56462e-54	4.59903e-51	4.61601e-48	4.64353e-45

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.88173e-50	1.97742e-48	1.84388e-46	8.76080e-45	2.68324e-43
1.00000e+07	1.83271e-47	1.93000e-45	1.80385e-43	8.56651e-42	2.62077e-40
1.00000e+06	1.44207e-44	1.54923e-42	1.47998e-40	7.00560e-39	2.12458e-37
100000.	4.11060e-42	4.87751e-40	5.21748e-38	2.47081e-36	7.35537e-35
10000.0	4.73974e-40	5.97943e-38	7.03773e-36	3.39583e-34	1.01921e-32
1000.00	4.87057e-38	6.20349e-36	7.44584e-34	3.69483e-32	1.12791e-30
100.000	4.56418e-36	5.83257e-34	7.05501e-32	3.51997e-30	1.07063e-28
10.0000	2.50158e-34	3.28999e-32	4.18626e-30	2.02473e-28	5.88236e-27
1.00000	2.21726e-33	3.43502e-31	5.87302e-29	2.76603e-27	7.58073e-26
0.100000	9.71664e-34	2.97037e-31	1.49730e-28	7.20251e-27	1.92788e-25
0.0100000	6.64600e-35	4.32132e-32	1.70382e-28	8.33277e-27	2.22910e-25
0.00100000	5.57808e-36	4.49140e-33	1.72618e-28	8.46089e-27	2.26361e-25
0.000100000	5.49633e-37	4.50871e-34	1.72844e-28	8.47387e-27	2.26711e-25
1.00000e-05	5.48811e-38	4.51044e-35	1.72867e-28	8.47516e-27	2.26746e-25
1.00000e-06	5.48728e-39	4.51061e-36	1.72869e-28	8.47529e-27	2.26750e-25
1.00000e-07	5.48720e-40	4.51063e-37	1.72869e-28	8.47531e-27	2.26750e-25
1.00000e-08	5.48719e-41	4.51063e-38	1.72869e-28	8.47531e-27	2.26750e-25
1.00000e-09	5.48719e-42	4.51063e-39	1.72869e-28	8.47531e-27	2.26750e-25

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	5.54419e-42	8.47068e-41	9.92258e-40	9.20120e-39	6.94168e-38
1.00000e+07	5.40786e-39	8.25011e-38	9.64901e-37	8.93314e-36	6.72850e-35
1.00000e+06	4.33882e-36	6.54380e-35	7.56241e-34	6.91710e-33	5.14755e-32
100000.	1.46681e-33	2.15472e-32	2.42450e-31	2.16094e-30	1.56915e-29
10000.0	2.03863e-31	2.99360e-30	3.36530e-29	2.99874e-28	2.17885e-27
1000.00	2.27791e-29	3.35850e-28	3.78330e-27	3.37620e-26	2.45591e-25
100.000	2.14811e-27	3.14017e-26	3.50480e-25	3.09806e-24	2.23221e-23
10.0000	1.12899e-25	1.57730e-24	1.68280e-23	1.42289e-22	9.82074e-22
1.00000	1.36983e-24	1.79805e-23	1.80188e-22	1.43263e-21	9.31846e-21
0.100000	3.37134e-24	4.26375e-23	4.10906e-22	3.14120e-21	1.96656e-20
0.0100000	3.87953e-24	4.87440e-23	4.66295e-22	3.53753e-21	2.19819e-20
0.00100000	3.93781e-24	4.94425e-23	4.72602e-22	3.58240e-21	2.22426e-20
0.000100000	3.94373e-24	4.95134e-23	4.73241e-22	3.58695e-21	2.22690e-20
1.00000e-05	3.94431e-24	4.95206e-23	4.73306e-22	3.58740e-21	2.22717e-20
1.00000e-06	3.94437e-24	4.95213e-23	4.73312e-22	3.58745e-21	2.22720e-20
1.00000e-07	3.94438e-24	4.95214e-23	4.73313e-22	3.58745e-21	2.22720e-20
1.00000e-08	3.94438e-24	4.95214e-23	4.73313e-22	3.58745e-21	2.22720e-20
1.00000e-09	3.94438e-24	4.95214e-23	4.73313e-22	3.58745e-21	2.22720e-20

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	4.36215e-37	2.33012e-36	1.07683e-35	4.37187e-35	1.58031e-34
1.00000e+07	4.22131e-34	2.25122e-33	1.03868e-32	4.21016e-32	1.51940e-31
1.00000e+06	3.19122e-31	1.68205e-30	7.67203e-30	3.07483e-29	1.09743e-28
100000.	9.50727e-29	4.90548e-28	2.19375e-27	8.63370e-27	3.03026e-26
10000.0	1.32200e-26	6.83556e-26	3.06509e-25	1.21007e-24	4.26175e-24
1000.00	1.49140e-24	7.71637e-24	3.46154e-23	1.36688e-22	4.81395e-22
100.000	1.34287e-22	6.88434e-22	3.06080e-21	1.19817e-20	4.18425e-20
10.0000	5.66983e-21	2.79515e-20	1.19750e-19	4.52605e-19	1.52894e-18
1.00000	5.08486e-20	2.37706e-19	9.68904e-19	3.49549e-18	1.13057e-17
0.100000	1.03477e-19	4.67494e-19	1.84604e-18	6.46769e-18	2.03629e-17
0.0100000	1.14847e-19	5.15449e-19	2.02310e-18	7.04903e-18	2.20826e-17
0.00100000	1.16118e-19	5.20777e-19	2.04266e-18	7.11290e-18	2.22706e-17
0.000100000	1.16247e-19	5.21317e-19	2.04464e-18	7.11935e-18	2.22895e-17
1.00000e-05	1.16260e-19	5.21370e-19	2.04483e-18	7.12000e-18	2.22914e-17
1.00000e-06	1.16262e-19	5.21376e-19	2.04485e-18	7.12006e-18	2.22916e-17
1.00000e-07	1.16262e-19	5.21376e-19	2.04486e-18	7.12007e-18	2.22916e-17
1.00000e-08	1.16262e-19	5.21377e-19	2.04486e-18	7.12007e-18	2.22916e-17
1.00000e-09	1.16262e-19	5.21377e-19	2.04486e-18	7.12007e-18	2.22916e-17

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	5.14589e-34	1.52502e-33	4.15055e-33	1.58124e-27	3.91764e-19
1.00000e+07	4.93954e-31	1.46150e-30	3.97119e-30	2.99184e-24	1.00901e-15

1.00000e+06	3.52901e-28	1.03300e-27	2.77731e-27	2.46166e-21	7.38684e-14
100000.	9.59559e-26	2.76944e-25	7.35067e-25	2.16822e-19	2.07959e-13
10000.0	1.35446e-23	3.92389e-23	1.04540e-22	2.32860e-18	4.02609e-14
1000.00	1.52956e-21	4.42886e-21	1.17900e-20	8.08707e-17	8.49679e-14
100.000	1.31858e-19	3.78736e-19	1.00032e-18	1.36426e-15	7.66229e-13
10.0000	4.66874e-17	1.30148e-17	3.34088e-17	5.10651e-15	1.98777e-12
1.00000	3.31480e-17	8.89570e-17	2.20354e-16	3.75547e-15	2.22385e-12
0.100000	5.82455e-17	1.52803e-16	3.70704e-16	2.46973e-15	2.19962e-12
0.0100000	6.28806e-17	1.64294e-16	3.97125e-16	2.35615e-15	2.19581e-12
0.00100000	6.33848e-17	1.65539e-16	3.99974e-16	2.34576e-15	2.19542e-12
0.000100000	6.34356e-17	1.65664e-16	4.00262e-16	2.34472e-15	2.19537e-12
1.00000e-05	6.34407e-17	1.65676e-16	4.00290e-16	2.34463e-15	2.19537e-12
1.00000e-06	6.34413e-17	1.65677e-16	4.00293e-16	2.34462e-15	2.19537e-12
1.00000e-07	6.34413e-17	1.65678e-16	4.00293e-16	2.34461e-15	2.19537e-12
1.00000e-08	6.34413e-17	1.65678e-16	4.00293e-16	2.34461e-15	2.19537e-12
1.00000e-09	6.34413e-17	1.65678e-16	4.00293e-16	2.34461e-15	2.19537e-12

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	7.02243e-14	4.06175e-11	8.11857e-10	5.37300e-09	3.77294e-08
1.00000e+07	3.82849e-11	1.96473e-09	1.85961e-08	7.63680e-08	2.19937e-07
1.00000e+06	9.76869e-10	4.21596e-08	2.06167e-07	4.74728e-07	8.10462e-07
100000.	7.81449e-10	6.54599e-08	4.01576e-07	8.21875e-07	1.29636e-06
10000.0	8.68164e-11	1.75772e-08	2.22950e-07	7.02292e-07	1.50064e-06
1000.00	2.76788e-11	5.16335e-09	1.17142e-07	5.56042e-07	1.30012e-06
100.000	9.20391e-11	3.72343e-09	6.50254e-08	3.13760e-07	7.92542e-07
10.0000	1.53253e-10	3.55090e-09	3.85943e-08	1.87136e-07	6.02205e-07
1.00000	1.64120e-10	3.35281e-09	3.08466e-08	1.59132e-07	5.69998e-07
0.100000	1.64722e-10	3.29633e-09	2.95554e-08	1.55372e-07	5.66293e-07
0.0100000	1.64749e-10	3.28890e-09	2.94167e-08	1.55001e-07	5.65942e-07
0.00100000	1.64752e-10	3.28818e-09	2.94039e-08	1.54967e-07	5.65909e-07
0.000100000	1.64753e-10	3.28811e-09	2.94027e-08	1.54964e-07	5.65906e-07
1.00000e-05	1.64753e-10	3.28810e-09	2.94026e-08	1.54963e-07	5.65906e-07
1.00000e-06	1.64753e-10	3.28810e-09	2.94026e-08	1.54963e-07	5.65906e-07
1.00000e-07	1.64753e-10	3.28810e-09	2.94026e-08	1.54963e-07	5.65906e-07
1.00000e-08	1.64753e-10	3.28810e-09	2.94026e-08	1.54963e-07	5.65906e-07
1.00000e-09	1.64753e-10	3.28810e-09	2.94026e-08	1.54963e-07	5.65906e-07

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	1.89090e-07	6.50836e-07	1.79455e-06	4.68164e-06	7.82282e-06
1.00000e+07	6.28240e-07	2.60656e-06	1.00844e-05	2.66080e-05	4.57896e-05
1.00000e+06	1.41228e-06	4.24588e-06	1.45185e-05	3.46987e-05	5.88797e-05
100000.	2.38732e-06	5.79640e-06	1.40081e-05	2.70756e-05	4.25840e-05
10000.0	3.00573e-06	5.88778e-06	1.08509e-05	1.80713e-05	2.74969e-05
1000.00	2.44933e-06	4.52568e-06	8.16244e-06	1.38080e-05	2.17120e-05
100.000	1.78138e-06	3.79940e-06	7.35849e-06	1.28632e-05	2.05698e-05
10.0000	1.61164e-06	3.66766e-06	7.24258e-06	1.27406e-05	2.04260e-05
1.00000	1.58877e-06	3.65258e-06	7.23035e-06	1.27281e-05	2.04112e-05
0.100000	1.58640e-06	3.65111e-06	7.22918e-06	1.27268e-05	2.04098e-05
0.0100000	1.58618e-06	3.65097e-06	7.22906e-06	1.27267e-05	2.04097e-05
0.00100000	1.58616e-06	3.65096e-06	7.22906e-06	1.27267e-05	2.04097e-05
0.000100000	1.58616e-06	3.65096e-06	7.22906e-06	1.27267e-05	2.04096e-05
1.00000e-05	1.58616e-06	3.65096e-06	7.22906e-06	1.27267e-05	2.04096e-05
1.00000e-06	1.58616e-06	3.65096e-06	7.22906e-06	1.27267e-05	2.04096e-05
1.00000e-07	1.58616e-06	3.65096e-06	7.22906e-06	1.27267e-05	2.04096e-05
1.00000e-08	1.58616e-06	3.65096e-06	7.22906e-06	1.27267e-05	2.04096e-05
1.00000e-09	1.58616e-06	3.65096e-06	7.22906e-06	1.27267e-05	2.04096e-05

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	7.39400e-06	0.000426973	0.000597003	0.000650595	0.000648267
1.00000e+07	5.50242e-05	0.000371222	0.000568439	0.000638788	0.000606865
1.00000e+06	8.07306e-05	0.000295856	0.000453428	0.000468536	0.000401847
100000.	5.95136e-05	0.000189874	0.000261007	0.000254297	0.000239249
10000.0	3.92551e-05	9.86348e-05	0.000136918	0.000161471	0.000191433
1000.00	3.19533e-05	6.51350e-05	0.000103348	0.000143168	0.000184203
100.000	3.05539e-05	5.90772e-05	9.82297e-05	0.000140857	0.000183407
10.0000	3.03779e-05	5.83374e-05	9.76496e-05	0.000140615	0.000183328
1.00000	3.03598e-05	5.82613e-05	9.75912e-05	0.000140592	0.000183320
0.100000	3.03581e-05	5.82540e-05	9.75855e-05	0.000140589	0.000183319
0.0100000	3.03579e-05	5.82532e-05	9.75848e-05	0.000140589	0.000183319
0.00100000	3.03579e-05	5.82532e-05	9.75848e-05	0.000140589	0.000183319
0.000100000	3.03579e-05	5.82532e-05	9.75848e-05	0.000140589	0.000183319
1.00000e-05	3.03579e-05	5.82532e-05	9.75848e-05	0.000140589	0.000183319
1.00000e-06	3.03579e-05	5.82532e-05	9.75848e-05	0.000140589	0.000183319
1.00000e-07	3.03579e-05	5.82532e-05	9.75848e-05	0.000140589	0.000183319
1.00000e-08	3.03579e-05	5.82532e-05	9.75848e-05	0.000140589	0.000183319
1.00000e-09	3.03579e-05	5.82532e-05	9.75848e-05	0.000140589	0.000183319

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.000630775	0.000606396	0.000578371	0.000550247	0.000525942
1.00000e+07	0.000546652	0.000489170	0.000447096	0.000423689	0.000417468
1.00000e+06	0.000350242	0.000329044	0.000330266	0.000344978	0.000367671
100000.	0.000248273	0.000271103	0.000299010	0.000328590	0.000359265
10000.0	0.000226494	0.000261470	0.000294724	0.000326655	0.000358389
1000.00	0.000223776	0.000260416	0.000294293	0.000326475	0.000358313
100.000	0.000223500	0.000260314	0.000294253	0.000326458	0.000358305
10.0000	0.000223474	0.000260305	0.000294251	0.000326456	0.000358305
1.00000	0.000223471	0.000260302	0.000294248	0.000326455	0.000358305
0.100000	0.000223471	0.000260302	0.000294248	0.000326455	0.000358305
0.0100000	0.000223471	0.000260302	0.000294248	0.000326455	0.000358305
0.00100000	0.000223471	0.000260302	0.000294248	0.000326455	0.000358305
0.000100000	0.000223471	0.000260302	0.000294248	0.000326455	0.000358305
1.00000e-05	0.000223471	0.000260302	0.000294248	0.000326455	0.000358305
1.00000e-06	0.000223471	0.000260302	0.000294248	0.000326455	0.000358305
1.00000e-07	0.000223471	0.000260302	0.000294248	0.000326455	0.000358305
1.00000e-08	0.000223471	0.000260302	0.000294248	0.000326455	0.000358305
1.00000e-09	0.000223471	0.000260302	0.000294248	0.000326455	0.000358305

Pa\K	4000.00
1.00000e+08	0.000508784
1.00000e+07	0.000425224
1.00000e+06	0.000395562
100000.	0.000391398
10000.0	0.000391015
1000.00	0.000390983
100.000	0.000390980
10.0000	0.000390980
1.00000	0.000390980
0.100000	0.000390980
0.0100000	0.000390980
0.00100000	0.000390980
0.000100000	0.000390980
1.00000e-05	0.000390980
1.00000e-06	0.000390980
1.00000e-07	0.000390980
1.00000e-08	0.000390980
1.00000e-09	0.000390980

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	9.60610e-58	4.08813e-56	5.43250e-55	5.38595e-54	5.00882e-53
1.00000e+07	5.70439e-53	1.73698e-51	1.81971e-50	1.49345e-49	1.18295e-48
1.00000e+06	8.47811e-49	1.53504e-47	1.18474e-46	7.80851e-46	5.22138e-45
100000.	2.14452e-45	2.27029e-44	1.32395e-43	7.29092e-43	4.30939e-42
10000.0	1.14336e-42	8.28016e-42	3.88683e-41	1.84089e-40	9.77072e-40
1000.00	1.44238e-40	5.54228e-40	1.72864e-39	6.09215e-39	2.59212e-38
100.000	1.36867e-39	2.68364e-39	6.17956e-39	1.72580e-38	5.89319e-38
10.0000	3.00616e-39	3.17593e-39	5.04210e-39	1.17661e-38	3.92501e-38
1.00000	4.79691e-39	1.22431e-38	3.00453e-38	8.53038e-38	3.11071e-37
0.100000	3.88648e-38	7.70275e-38	1.52246e-37	3.56632e-37	1.09379e-36
0.0100000	5.52656e-38	3.00373e-38	2.40451e-38	2.87063e-38	5.27677e-38
0.00100000	3.30801e-40	3.58607e-41	1.53717e-41	1.44627e-41	2.80927e-41
0.000100000	1.06012e-43	2.00823e-44	1.56806e-44	2.85879e-44	1.36858e-43
1.00000e-05	6.15944e-46	3.27702e-46	4.33374e-46	1.18376e-45	8.22026e-45
1.00000e-06	3.70929e-47	2.53268e-47	3.68049e-47	1.06886e-46	7.78570e-46
1.00000e-07	3.50814e-48	2.46516e-48	3.61910e-48	1.05783e-47	7.74326e-47
1.00000e-08	3.48843e-49	2.45848e-49	3.61299e-49	1.05673e-48	7.73903e-48
1.00000e-09	3.48646e-50	2.45781e-50	3.61238e-50	1.05662e-49	7.73860e-49

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	4.92157e-52	5.65277e-51	8.37911e-50	1.70753e-48	4.56635e-47
1.00000e+07	1.01048e-47	1.03005e-46	1.39527e-45	2.70983e-44	7.20795e-43
1.00000e+06	3.90679e-44	3.60654e-43	4.58060e-42	8.65328e-41	2.31105e-39
100000.	2.96442e-41	2.59581e-40	3.20715e-39	6.00542e-38	1.61346e-36
10000.0	6.24918e-39	5.23621e-38	6.31664e-37	1.16802e-35	3.13617e-34
1000.00	1.40387e-37	1.04093e-36	1.16436e-35	2.14375e-34	6.35325e-33
100.000	2.57900e-37	1.59962e-36	1.68310e-35	3.70021e-34	1.68730e-32
10.0000	1.96525e-37	1.55624e-36	2.20858e-35	7.12351e-34	4.52610e-32
1.00000	1.61427e-36	1.27883e-35	1.77207e-34	5.67424e-33	3.29848e-31
0.100000	4.86246e-36	3.38357e-35	4.41540e-34	1.74460e-32	1.31072e-30
0.0100000	1.62622e-37	9.80661e-37	2.31373e-35	9.19865e-33	1.46500e-30
0.00100000	1.40234e-40	3.88323e-39	9.07386e-37	7.78146e-33	1.43957e-30
0.000100000	2.26407e-42	2.18771e-40	8.22400e-38	7.66185e-33	1.43663e-30

1.00000e-05	1.81540e-43	2.07103e-41	8.14503e-39	7.65011e-33	1.43633e-30
1.00000e-06	1.77538e-44	2.05980e-42	8.13719e-40	7.64894e-33	1.43630e-30
1.00000e-07	1.77143e-45	2.05868e-43	8.13640e-41	7.64882e-33	1.43630e-30
1.00000e-08	1.77103e-46	2.05857e-44	8.13632e-42	7.64881e-33	1.43630e-30
1.00000e-09	1.77099e-47	2.05856e-45	8.13632e-43	7.64881e-33	1.43630e-30

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.35464e-45	3.69811e-44	8.35549e-43	1.51502e-41	2.21577e-40
1.00000e+07	2.16990e-41	5.95438e-40	1.32778e-38	2.33953e-37	3.28662e-36
1.00000e+06	7.07058e-38	1.94082e-36	4.24131e-35	7.20882e-34	9.65986e-33
100000.	4.99980e-35	1.36976e-33	2.93918e-32	4.84616e-31	6.24601e-30
10000.0	9.81103e-33	2.66753e-31	5.57466e-30	8.82081e-29	1.07858e-27
1000.00	2.32854e-31	6.83498e-30	1.44596e-28	2.22666e-27	2.58475e-26
100.000	9.71664e-31	3.42210e-29	7.80133e-28	1.23283e-26	1.43102e-25
10.0000	3.09366e-30	1.12680e-28	2.57155e-27	4.01208e-26	4.57224e-25
1.00000	1.74431e-29	5.75856e-28	1.24127e-26	1.86169e-25	2.06317e-24
0.100000	7.33971e-29	2.41525e-27	5.05490e-26	7.26364e-25	7.65090e-24
0.0100000	1.01877e-28	3.55967e-27	7.53703e-26	1.07283e-24	1.10788e-23
0.00100000	1.04835e-28	3.71594e-27	7.90469e-26	1.12541e-24	1.15987e-23
0.000100000	1.05124e-28	3.73196e-27	7.94297e-26	1.13092e-24	1.16532e-23
1.00000e-05	1.05153e-28	3.73355e-27	7.94681e-26	1.13147e-24	1.16587e-23
1.00000e-06	1.05156e-28	3.73371e-27	7.94720e-26	1.13153e-24	1.16593e-23
1.00000e-07	1.05156e-28	3.73373e-27	7.94724e-26	1.13153e-24	1.16593e-23
1.00000e-08	1.05156e-28	3.73373e-27	7.94724e-26	1.13153e-24	1.16593e-23
1.00000e-09	1.05156e-28	3.73373e-27	7.94724e-26	1.13153e-24	1.16593e-23

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.65979e-39	2.67709e-38	2.30431e-37	1.72419e-36	1.13613e-35
1.00000e+07	3.75774e-35	3.58110e-34	2.90662e-33	2.04553e-32	1.26591e-31
1.00000e+06	1.04549e-31	9.38508e-31	7.15516e-30	4.72520e-29	2.74569e-28
100000.	6.46442e-29	5.52758e-28	4.00453e-27	2.51017e-26	1.38458e-25
10000.0	1.04966e-26	8.37917e-26	5.63479e-25	3.26455e-24	1.65967e-23
1000.00	2.34987e-25	1.73362e-24	1.06974e-23	5.66146e-23	2.62320e-22
100.000	1.28138e-24	9.22323e-24	5.51784e-23	2.81899e-22	1.25702e-21
10.0000	4.01346e-24	2.83380e-23	1.66630e-22	8.38961e-22	3.69783e-21
1.00000	1.77537e-23	1.23548e-22	7.18319e-22	3.58121e-21	1.56308e-20
0.100000	6.22519e-23	4.08116e-22	2.22964e-21	1.04293e-20	4.26874e-20
0.0100000	8.79316e-23	5.61080e-22	2.98189e-21	1.35751e-20	5.41420e-20
0.00100000	9.17752e-23	5.83530e-22	3.08978e-21	1.40154e-20	5.57059e-20
0.000100000	9.21782e-23	5.85880e-22	3.10104e-21	1.40612e-20	5.58682e-20
1.00000e-05	9.22187e-23	5.86115e-22	3.10217e-21	1.40658e-20	5.58844e-20
1.00000e-06	9.22228e-23	5.86139e-22	3.10229e-21	1.40663e-20	5.58861e-20
1.00000e-07	9.22232e-23	5.86142e-22	3.10230e-21	1.40663e-20	5.58862e-20
1.00000e-08	9.22233e-23	5.86142e-22	3.10230e-21	1.40663e-20	5.58862e-20
1.00000e-09	9.22233e-23	5.86142e-22	3.10230e-21	1.40663e-20	5.58862e-20

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	6.66108e-35	3.50490e-34	1.66786e-33	7.22954e-33	2.87407e-32
1.00000e+07	6.96679e-31	3.44083e-30	1.53728e-29	6.25854e-29	2.33784e-28
1.00000e+06	1.42127e-27	6.61885e-27	2.79625e-26	1.07950e-25	3.83366e-25
100000.	6.81074e-25	3.01959e-24	1.21719e-23	4.49419e-23	1.52996e-22
10000.0	7.51481e-23	3.06685e-22	1.13907e-21	3.88132e-21	1.22165e-20
1000.00	1.08193e-21	4.02544e-21	1.36558e-20	4.26040e-20	1.23112e-19
100.000	4.97884e-21	1.77648e-20	5.77454e-20	1.72558e-19	4.77559e-19
10.0000	1.45199e-20	5.14928e-20	1.66710e-19	4.96913e-19	1.37299e-18
1.00000	6.07194e-20	2.12701e-19	6.79001e-19	1.99221e-18	5.41053e-18
0.100000	1.55598e-19	5.12306e-19	1.54118e-18	4.27580e-18	1.10235e-17
0.0100000	1.92615e-19	6.20142e-19	1.82805e-18	4.98014e-18	1.26339e-17
0.00100000	1.97547e-19	6.34176e-19	1.86456e-18	5.06793e-18	1.28307e-17
0.000100000	1.98057e-19	6.35624e-19	1.86831e-18	5.07693e-18	1.28509e-17
1.00000e-05	1.98108e-19	6.35768e-19	1.86869e-18	5.07784e-18	1.28529e-17
1.00000e-06	1.98113e-19	6.35783e-19	1.86873e-18	5.07792e-18	1.28531e-17
1.00000e-07	1.98114e-19	6.35785e-19	1.86873e-18	5.07793e-18	1.28531e-17
1.00000e-08	1.98114e-19	6.35785e-19	1.86873e-18	5.07794e-18	1.28531e-17
1.00000e-09	1.98114e-19	6.35785e-19	1.86873e-18	5.07794e-18	1.28531e-17

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	1.05471e-31	3.59458e-31	1.14402e-30	6.29655e-24	6.80088e-17
1.00000e+07	8.06528e-28	2.58561e-27	7.74665e-27	1.39737e-20	6.34645e-14
1.00000e+06	1.26022e-24	3.85680e-24	1.10470e-23	7.26367e-18	4.97166e-12
100000.	4.83096e-22	1.42257e-21	3.92581e-21	4.78961e-16	2.46222e-11
10000.0	3.57307e-20	9.76252e-20	2.50349e-19	1.73826e-15	9.27799e-12
1000.00	3.31480e-19	8.35946e-19	1.98366e-18	6.70838e-16	8.90209e-13
100.000	1.23159e-18	2.97538e-18	6.76498e-18	2.14098e-16	1.39055e-13
10.0000	3.53655e-18	8.53367e-18	1.93742e-17	4.56988e-16	1.31722e-13
1.00000	1.36833e-17	3.23950e-17	7.21318e-17	5.68109e-16	1.41403e-13

0.100000	2.65764e-17	6.02355e-17	1.28936e-16	4.36416e-16	1.37992e-13
0.0100000	3.00307e-17	6.72303e-17	1.42379e-16	4.10260e-16	1.37186e-13
0.00100000	3.04454e-17	6.80564e-17	1.43943e-16	4.07720e-16	1.37094e-13
0.000100000	3.04877e-17	6.81406e-17	1.44102e-16	4.07469e-16	1.37084e-13
1.00000e-05	3.04920e-17	6.81491e-17	1.44118e-16	4.07444e-16	1.37083e-13
1.00000e-06	3.04924e-17	6.81498e-17	1.44120e-16	4.07441e-16	1.37083e-13
1.00000e-07	3.04924e-17	6.81499e-17	1.44120e-16	4.07441e-16	1.37083e-13
1.00000e-08	3.04924e-17	6.81499e-17	1.44120e-16	4.07441e-16	1.37083e-13
1.00000e-09	3.04924e-17	6.81499e-17	1.44120e-16	4.07441e-16	1.37083e-13

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	2.64285e-12	1.74759e-10	2.28640e-09	1.74728e-08	9.83129e-08
1.00000e+07	1.15003e-09	4.34121e-08	2.95284e-07	1.14967e-06	3.17803e-06
1.00000e+06	2.94089e-08	1.10347e-06	5.11577e-06	1.14835e-05	1.88048e-05
100000.	3.36249e-08	1.91748e-06	1.07262e-05	2.10219e-05	2.99775e-05
10000.0	5.63270e-09	5.84465e-07	6.17466e-06	1.72741e-05	2.99605e-05
1000.00	5.73334e-10	1.41279e-07	2.83627e-06	1.14136e-05	1.97363e-05
100.000	9.61698e-11	3.81641e-08	1.01396e-06	3.97925e-06	5.38932e-06
10.0000	3.08754e-11	9.98635e-09	2.17571e-07	6.85031e-07	7.63983e-07
1.00000	1.26660e-11	1.85579e-09	2.98485e-08	8.31619e-08	1.05909e-07
0.100000	8.02494e-12	3.36442e-10	4.20424e-09	1.49034e-08	3.87475e-08
0.0100000	7.34831e-12	1.55493e-10	1.56369e-09	8.24784e-09	3.22916e-08
0.00100000	7.27606e-12	1.37235e-10	1.30494e-09	7.59981e-09	3.16622e-08
0.000100000	7.26881e-12	1.35415e-10	1.27933e-09	7.53589e-09	3.16002e-08
1.00000e-05	7.26808e-12	1.35233e-10	1.27679e-09	7.52954e-09	3.15940e-08
1.00000e-06	7.26801e-12	1.35215e-10	1.27653e-09	7.52888e-09	3.15934e-08
1.00000e-07	7.26800e-12	1.35214e-10	1.27651e-09	7.52888e-09	3.15934e-08
1.00000e-08	7.26800e-12	1.35214e-10	1.27650e-09	7.52888e-09	3.15934e-08
1.00000e-09	7.26800e-12	1.35214e-10	1.27650e-09	7.52888e-09	3.15934e-08

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	2.70662e-07	3.69140e-07	3.79829e-07	3.64968e-07	3.34975e-07
1.00000e+07	5.56609e-06	7.03785e-06	7.81701e-06	8.68203e-06	9.36862e-06
1.00000e+06	2.47897e-05	3.01526e-05	3.58873e-05	4.03403e-05	4.14388e-05
100000.	3.95298e-05	5.10934e-05	6.08440e-05	6.29070e-05	5.76527e-05
10000.0	4.15934e-05	4.79854e-05	4.63137e-05	3.86763e-05	2.99783e-05
1000.00	2.17391e-05	1.86099e-05	1.38530e-05	9.93953e-06	7.75585e-06
100.000	4.52371e-06	3.22591e-06	2.42598e-06	2.32816e-06	2.93846e-06
10.0000	6.16131e-07	5.84737e-07	8.07684e-07	1.37291e-06	2.37732e-06
1.00000	1.52581e-07	3.04220e-07	6.45606e-07	1.27990e-06	2.32339e-06
0.100000	1.07550e-07	2.77485e-07	6.30248e-07	1.27108e-06	2.31827e-06
0.0100000	1.03225e-07	2.74912e-07	6.28762e-07	1.27023e-06	2.31777e-06
0.00100000	1.02803e-07	2.74660e-07	6.28622e-07	1.27015e-06	2.31772e-06
0.000100000	1.02762e-07	2.74636e-07	6.28605e-07	1.27014e-06	2.31772e-06
1.00000e-05	1.02757e-07	2.74634e-07	6.28605e-07	1.27014e-06	2.31772e-06
1.00000e-06	1.02757e-07	2.74633e-07	6.28605e-07	1.27014e-06	2.31772e-06
1.00000e-07	1.02757e-07	2.74633e-07	6.28605e-07	1.27014e-06	2.31772e-06
1.00000e-08	1.02757e-07	2.74633e-07	6.28605e-07	1.27014e-06	2.31772e-06
1.00000e-09	1.02757e-07	2.74633e-07	6.28605e-07	1.27014e-06	2.31772e-06

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	3.00727e-07	0.000151580	0.000155555	0.000158516	0.000159893
1.00000e+07	9.38001e-06	0.000351734	0.000358281	0.000347746	0.000318172
1.00000e+06	3.96888e-05	0.000650370	0.000538750	0.000428205	0.000326483
100000.	4.96450e-05	0.000591727	0.000368009	0.000231219	0.000150420
10000.0	2.33032e-05	0.000215582	0.000106247	6.76591e-05	5.87452e-05
1000.00	7.26000e-06	4.13460e-05	2.88328e-05	3.33777e-05	4.40438e-05
100.000	4.25385e-06	1.20404e-05	1.84170e-05	2.94166e-05	4.25031e-05
10.0000	3.91996e-06	8.76049e-06	1.73344e-05	2.90222e-05	4.23529e-05
1.00000	3.88806e-06	8.43272e-06	1.72276e-05	2.89836e-05	4.23383e-05
0.100000	3.88502e-06	8.40042e-06	1.72171e-05	2.89798e-05	4.23369e-05
0.0100000	3.88473e-06	8.39721e-06	1.72161e-05	2.89794e-05	4.23369e-05
0.00100000	3.88470e-06	8.39689e-06	1.72160e-05	2.89794e-05	4.23369e-05
0.000100000	3.88470e-06	8.39689e-06	1.72160e-05	2.89794e-05	4.23369e-05
1.00000e-05	3.88470e-06	8.39689e-06	1.72160e-05	2.89794e-05	4.23369e-05
1.00000e-06	3.88470e-06	8.39689e-06	1.72160e-05	2.89794e-05	4.23369e-05
1.00000e-07	3.88470e-06	8.39689e-06	1.72160e-05	2.89794e-05	4.23369e-05
1.00000e-08	3.88470e-06	8.39689e-06	1.72160e-05	2.89794e-05	4.23369e-05
1.00000e-09	3.88470e-06	8.39689e-06	1.72160e-05	2.89794e-05	4.23369e-05

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.000158653	0.000154173	0.000146908	0.000137757	0.000127610
1.00000e+07	0.000279870	0.000240504	0.000204344	0.000173269	0.000147676
1.00000e+06	0.000245281	0.000187253	0.000149006	0.000124969	0.000109897
100000.	0.000110674	9.47765e-05	9.01683e-05	8.96742e-05	8.97725e-05
10000.0	6.26806e-05	7.05648e-05	7.82190e-05	8.38924e-05	8.70576e-05

1000.00	5.63495e-05	6.77852e-05	7.69813e-05	8.33430e-05	8.68219e-05
100.000	5.57231e-05	6.75198e-05	7.68663e-05	8.32935e-05	8.68013e-05
10.0000	5.56628e-05	6.74945e-05	7.68555e-05	8.32889e-05	8.67996e-05
1.00000	5.56570e-05	6.74920e-05	7.68544e-05	8.32882e-05	8.67994e-05
0.100000	5.56565e-05	6.74918e-05	7.68541e-05	8.32882e-05	8.67994e-05
0.0100000	5.56562e-05	6.74918e-05	7.68541e-05	8.32882e-05	8.67994e-05
0.00100000	5.56562e-05	6.74918e-05	7.68541e-05	8.32882e-05	8.67994e-05
0.000100000	5.56562e-05	6.74918e-05	7.68541e-05	8.32882e-05	8.67994e-05
1.00000e-05	5.56562e-05	6.74918e-05	7.68541e-05	8.32882e-05	8.67994e-05
1.00000e-06	5.56562e-05	6.74918e-05	7.68541e-05	8.32882e-05	8.67994e-05
1.00000e-07	5.56562e-05	6.74918e-05	7.68541e-05	8.32882e-05	8.67994e-05
1.00000e-08	5.56562e-05	6.74918e-05	7.68541e-05	8.32882e-05	8.67994e-05
1.00000e-09	5.56562e-05	6.74918e-05	7.68541e-05	8.32882e-05	8.67994e-05

Pa\K	4000.00
1.00000e+08	0.000117178
1.00000e+07	0.000127115
1.00000e+06	9.98977e-05
100000.	8.90128e-05
10000.0	8.78115e-05
1000.00	8.77201e-05
100.000	8.77128e-05
10.0000	8.77122e-05
1.00000	8.77122e-05
0.100000	8.77122e-05
0.0100000	8.77122e-05
0.00100000	8.77122e-05
0.000100000	8.77122e-05
1.00000e-05	8.77122e-05
1.00000e-06	8.77122e-05
1.00000e-07	8.77122e-05
1.00000e-08	8.77122e-05
1.00000e-09	8.77122e-05

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.94796e-33	6.33634e-32	4.63090e-31	1.91971e-30	5.91839e-30
1.00000e+07	1.36410e-28	3.45088e-27	2.10059e-26	7.54737e-26	2.06894e-25
1.00000e+06	3.13183e-24	5.25927e-23	2.55953e-22	7.87277e-22	1.91140e-21
100000.	1.92119e-20	2.08247e-19	7.81795e-19	2.00032e-18	4.21112e-18
10000.0	2.74837e-17	2.02427e-16	6.22952e-16	1.39536e-15	2.65619e-15
1000.00	1.28946e-14	7.03115e-14	1.79973e-13	3.50336e-13	5.93282e-13
100.000	1.95872e-12	6.82443e-12	1.32078e-11	2.08355e-11	2.97063e-11
10.0000	5.86892e-11	1.23658e-10	1.86009e-10	2.49603e-10	3.16168e-10
1.00000	4.66688e-10	7.19247e-10	8.85505e-10	1.01928e-09	1.13928e-09
0.100000	1.16551e-09	1.29969e-09	1.39924e-09	1.50435e-09	1.62104e-09
0.0100000	1.59342e-09	1.93039e-09	2.29568e-09	2.71029e-09	3.18600e-09
0.00100000	4.01410e-09	6.32156e-09	8.37443e-09	1.03412e-08	1.22968e-08
0.000100000	1.46207e-08	1.82985e-08	2.02492e-08	2.17857e-08	2.32259e-08
1.00000e-05	2.17325e-08	2.25005e-08	2.32151e-08	2.40835e-08	2.51072e-08
1.00000e-06	2.26371e-08	2.29505e-08	2.35195e-08	2.43157e-08	2.52960e-08
1.00000e-07	2.27274e-08	2.29955e-08	2.35499e-08	2.43389e-08	2.53149e-08
1.00000e-08	2.27364e-08	2.30000e-08	2.35529e-08	2.43412e-08	2.53168e-08
1.00000e-09	2.27373e-08	2.30004e-08	2.35533e-08	2.43415e-08	2.53170e-08

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.52501e-29	3.49583e-29	7.40647e-29	1.48761e-28	2.88383e-28
1.00000e+07	4.82379e-25	1.01306e-24	1.98424e-24	3.70908e-24	6.72457e-24
1.00000e+06	4.02551e-21	7.73194e-21	1.39637e-20	2.41965e-20	4.08049e-20
100000.	7.89146e-18	1.37204e-17	2.26965e-17	3.63237e-17	5.69074e-17
10000.0	4.58532e-15	7.42922e-15	1.15374e-14	1.74157e-14	2.58072e-14
1000.00	9.24270e-13	1.36395e-12	1.94062e-12	2.69319e-12	3.67503e-12
100.000	3.99131e-11	5.16301e-11	6.51248e-11	8.07712e-11	9.90653e-11
10.0000	3.86670e-10	4.61995e-10	5.43223e-10	6.31701e-10	7.29067e-10
1.00000	1.25360e-09	1.36694e-09	1.48295e-09	1.60498e-09	1.73647e-09
0.100000	1.75172e-09	1.89971e-09	2.07009e-09	2.26985e-09	2.50819e-09
0.0100000	3.73725e-09	4.38476e-09	5.15609e-09	6.08531e-09	7.21271e-09
0.00100000	1.42906e-08	1.63675e-08	1.85711e-08	2.09429e-08	2.35216e-08
0.000100000	2.46904e-08	2.62493e-08	2.79555e-08	2.98527e-08	3.19798e-08
1.00000e-05	2.62872e-08	2.76391e-08	2.91874e-08	3.09600e-08	3.29857e-08
1.00000e-06	2.64470e-08	2.77780e-08	2.93104e-08	3.10705e-08	3.30861e-08
1.00000e-07	2.64629e-08	2.77919e-08	2.93227e-08	3.10816e-08	3.30961e-08
1.00000e-08	2.64645e-08	2.77933e-08	2.93239e-08	3.10827e-08	3.30971e-08
1.00000e-09	2.64647e-08	2.77934e-08	2.93241e-08	3.10828e-08	3.30972e-08

Pa\K	120.000	130.000	140.000	150.000	160.000
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1.00000e+08	5.46726e-28	1.02382e-27	1.90837e-27	3.56133e-27	6.68252e-27
1.00000e+07	1.19655e-23	2.10828e-23	3.70353e-23	6.51967e-23	1.15446e-22
1.00000e+06	6.76694e-20	1.11220e-19	1.82250e-19	2.99090e-19	4.93197e-19
100000.	8.80309e-17	1.35334e-16	2.07796e-16	3.19866e-16	4.95008e-16
10000.0	3.78112e-14	5.50700e-14	8.00528e-14	1.16496e-13	1.70077e-13
1000.00	4.95913e-12	6.64486e-12	8.86737e-12	1.18100e-11	1.57207e-11
100.000	1.20649e-10	1.46346e-10	1.77203e-10	2.14550e-10	2.60079e-10
10.0000	8.37273e-10	9.58612e-10	1.09578e-09	1.25194e-09	1.43085e-09
1.00000	1.88112e-09	2.04311e-09	2.22734e-09	2.43978e-09	2.68783e-09
0.100000	2.79700e-09	3.15165e-09	3.59211e-09	4.14445e-09	4.84275e-09
0.0100000	8.58477e-09	1.02544e-08	1.22812e-08	1.47318e-08	1.76797e-08
0.00100000	2.63444e-08	2.94492e-08	3.28760e-08	3.66691e-08	4.08788e-08
0.000100000	3.43732e-08	3.70693e-08	4.01068e-08	4.35294e-08	4.73861e-08
1.00000e-05	3.52947e-08	3.79190e-08	4.08947e-08	4.42628e-08	4.80714e-08
1.00000e-06	3.53866e-08	3.80038e-08	4.09732e-08	4.43359e-08	4.81397e-08
1.00000e-07	3.53958e-08	3.80123e-08	4.09810e-08	4.43433e-08	4.81466e-08
1.00000e-08	3.53967e-08	3.80131e-08	4.09818e-08	4.43440e-08	4.81473e-08
1.00000e-09	3.53968e-08	3.80132e-08	4.09819e-08	4.43441e-08	4.81473e-08

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.26453e-26	2.41740e-26	4.67254e-26	9.13170e-26	1.80343e-25
1.00000e+07	2.06145e-22	3.71738e-22	6.77342e-22	1.24685e-21	2.31714e-21
1.00000e+06	8.19052e-19	1.37175e-18	2.31833e-18	3.95381e-18	6.80147e-18
100000.	7.17644e-16	1.21311e-15	1.92440e-15	3.08036e-15	4.97313e-15
10000.0	2.49461e-13	3.67887e-13	5.45601e-13	8.13551e-13	1.21894e-12
1000.00	2.09336e-11	2.78974e-11	3.72120e-11	4.96759e-11	6.63479e-11
100.000	3.15938e-10	3.84839e-10	4.70203e-10	5.76325e-10	7.08578e-10
10.0000	1.63691e-09	1.87542e-09	2.15267e-09	2.47622e-09	2.85523e-09
1.00000	2.98091e-09	3.33113e-09	3.75429e-09	4.27119e-09	4.90923e-09
0.100000	5.73141e-09	6.86778e-09	8.32525e-09	1.01964e-08	1.25964e-08
0.0100000	2.12058e-08	2.53977e-08	3.03506e-08	3.61673e-08	4.29589e-08
0.00100000	4.55634e-08	5.07896e-08	5.66348e-08	6.31876e-08	7.05497e-08
0.000100000	5.17345e-08	5.66407e-08	6.21812e-08	6.84441e-08	7.55303e-08
1.00000e-05	5.23764e-08	5.72433e-08	6.27479e-08	6.89778e-08	7.60335e-08
1.00000e-06	5.24405e-08	5.73034e-08	6.28045e-08	6.90311e-08	7.60837e-08
1.00000e-07	5.24468e-08	5.73094e-08	6.28101e-08	6.90365e-08	7.60888e-08
1.00000e-08	5.24474e-08	5.73100e-08	6.28107e-08	6.90370e-08	7.60893e-08
1.00000e-09	5.24475e-08	5.73101e-08	6.28107e-08	6.90370e-08	7.60894e-08

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	3.59572e-25	7.22908e-25	1.46347e-24	2.97856e-24	6.08333e-24
1.00000e+07	4.34272e-21	8.19762e-21	1.55641e-20	2.96766e-20	5.67342e-20
1.00000e+06	1.17923e-17	2.05868e-17	3.61498e-17	6.37763e-17	1.12909e-16
100000.	8.09185e-15	1.32567e-14	2.18437e-14	3.61585e-14	6.00593e-14
10000.0	1.83357e-12	2.76618e-12	4.18073e-12	6.32290e-12	9.55855e-12
1000.00	8.86268e-11	1.18354e-10	1.57949e-10	2.10578e-10	2.80378e-10
100.000	8.73643e-10	1.07978e-09	1.33716e-09	1.65818e-09	2.05797e-09
10.0000	3.30086e-09	3.82678e-09	4.44995e-09	5.19149e-09	6.07795e-09
1.00000	5.70481e-09	6.70608e-09	7.97666e-09	9.60010e-09	1.16852e-08
0.100000	1.56659e-08	1.95737e-08	2.45187e-08	3.07314e-08	3.84737e-08
0.0100000	5.08460e-08	5.99600e-08	7.04449e-08	8.24596e-08	9.61797e-08
0.00100000	7.88364e-08	8.81788e-08	9.87252e-08	1.10642e-07	1.24114e-07
0.000100000	8.35548e-08	9.26480e-08	1.02957e-07	1.14649e-07	1.27908e-07
1.00000e-05	8.40297e-08	9.30964e-08	1.03381e-07	1.15049e-07	1.28287e-07
1.00000e-06	8.40771e-08	9.31413e-08	1.03424e-07	1.15089e-07	1.28325e-07
1.00000e-07	8.40818e-08	9.31458e-08	1.03427e-07	1.15094e-07	1.28328e-07
1.00000e-08	8.40823e-08	9.31461e-08	1.03428e-07	1.15094e-07	1.28328e-07
1.00000e-09	8.40823e-08	9.31462e-08	1.03428e-07	1.15094e-07	1.28328e-07

Pa\K	270.000	280.000	290.000	300.000	400.000
1.00000e+08	1.24408e-23	2.54117e-23	5.17000e-23	4.84749e-20	1.85986e-15
1.00000e+07	1.08546e-19	2.07403e-19	3.94864e-19	1.40457e-16	2.32212e-12
1.00000e+06	2.00328e-16	3.55668e-16	6.30797e-16	9.90076e-14	4.27679e-10
100000.	9.99777e-14	1.66580e-13	2.77407e-13	1.72533e-11	9.84162e-09
10000.0	1.44284e-11	2.17248e-11	3.25975e-11	4.71283e-10	3.19960e-08
1000.00	3.72735e-10	4.94644e-10	6.55145e-10	2.75551e-09	4.14106e-08
100.000	2.55472e-09	3.17035e-09	3.93095e-09	8.51975e-09	5.65292e-08
10.0000	7.14285e-09	8.42876e-09	9.98959e-09	1.72277e-08	1.35401e-07
1.00000	1.43722e-08	1.78392e-08	2.23092e-08	4.88954e-08	3.61526e-07
0.100000	4.80383e-08	5.97474e-08	7.39501e-08	1.30467e-07	5.82898e-07
0.0100000	1.11800e-07	1.29539e-07	1.49635e-07	1.95781e-07	6.53769e-07
0.00100000	1.39353e-07	1.56587e-07	1.76075e-07	2.11080e-07	6.63550e-07
0.000100000	1.42943e-07	1.59986e-07	1.79291e-07	2.12813e-07	6.64553e-07
1.00000e-05	1.43302e-07	1.60324e-07	1.79611e-07	2.12987e-07	6.64654e-07
1.00000e-06	1.43337e-07	1.60358e-07	1.79643e-07	2.13004e-07	6.64663e-07
1.00000e-07	1.43341e-07	1.60362e-07	1.79646e-07	2.13006e-07	6.64664e-07

1.00000e-08 | 1.43341e-07 1.60362e-07 1.79646e-07 2.13006e-07 6.64664e-07
1.00000e-09 | 1.43341e-07 1.60362e-07 1.79646e-07 2.13006e-07 6.64664e-07

Pa\K	500.000	600.000	700.000	800.000	900.000
1.00000e+08	2.13134e-11	1.29066e-09	1.66004e-08	1.23851e-07	6.84872e-07
1.00000e+07	9.87621e-09	3.24888e-07	2.15939e-06	8.20528e-06	2.22128e-05
1.00000e+06	3.76489e-07	9.08853e-06	3.86513e-05	8.34889e-05	0.000133377
100000.	1.47849e-06	2.53304e-05	9.69968e-05	0.000169161	0.000230764
10000.0	1.23491e-06	1.60190e-05	7.59920e-05	0.000166022	0.000265263
1000.00	5.38505e-07	6.15526e-06	4.24630e-05	0.000125032	0.000199696
100.000	4.27320e-07	3.44075e-06	2.12387e-05	5.75331e-05	8.05258e-05
10.0000	9.32087e-07	4.07092e-06	1.28212e-05	2.67803e-05	4.09012e-05
1.00000	1.60136e-06	4.73941e-06	1.10177e-05	2.11622e-05	3.52343e-05
0.100000	1.88439e-06	4.90247e-06	1.07808e-05	2.05266e-05	3.46569e-05
0.0100000	1.93371e-06	4.92315e-06	1.07570e-05	2.04651e-05	3.46016e-05
0.00100000	1.93913e-06	4.92528e-06	1.07547e-05	2.04591e-05	3.45962e-05
0.000100000	1.93968e-06	4.92550e-06	1.07545e-05	2.04585e-05	3.45957e-05
1.00000e-05	1.93973e-06	4.92552e-06	1.07545e-05	2.04585e-05	3.45956e-05
1.00000e-06	1.93974e-06	4.92552e-06	1.07544e-05	2.04585e-05	3.45956e-05
1.00000e-07	1.93974e-06	4.92552e-06	1.07544e-05	2.04585e-05	3.45956e-05
1.00000e-08	1.93974e-06	4.92552e-06	1.07544e-05	2.04585e-05	3.45956e-05
1.00000e-09	1.93974e-06	4.92552e-06	1.07544e-05	2.04585e-05	3.45956e-05

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	1.87056e-06	2.54805e-06	2.63669e-06	2.57906e-06	2.40688e-06
1.00000e+07	3.84993e-05	4.85136e-05	5.40041e-05	6.03574e-05	6.54795e-05
1.00000e+06	0.000173954	0.000211184	0.000252175	0.000285061	0.000294286
100000.	0.000300326	0.000389477	0.000470022	0.000495987	0.000466145
10000.0	0.000363276	0.000428323	0.000434655	0.000393393	0.000339579
1000.00	0.000228314	0.000221461	0.000203656	0.000191235	0.000188715
100.000	8.96479e-05	9.90250e-05	0.000113509	0.000132084	0.000152359
10.0000	5.72965e-05	7.74654e-05	0.000100416	0.000124448	0.000147975
1.00000	5.34424e-05	7.51704e-05	9.91049e-05	0.000123706	0.000147557
0.100000	5.30691e-05	7.49530e-05	9.89813e-05	0.000123637	0.000147517
0.0100000	5.30335e-05	7.49324e-05	9.89696e-05	0.000123630	0.000147514
0.00100000	5.30300e-05	7.49299e-05	9.89685e-05	0.000123629	0.000147513
0.000100000	5.30296e-05	7.49299e-05	9.89685e-05	0.000123629	0.000147513
1.00000e-05	5.30296e-05	7.49299e-05	9.89685e-05	0.000123629	0.000147513
1.00000e-06	5.30296e-05	7.49299e-05	9.89685e-05	0.000123629	0.000147513
1.00000e-07	5.30296e-05	7.49299e-05	9.89685e-05	0.000123629	0.000147513
1.00000e-08	5.30296e-05	7.49299e-05	9.89685e-05	0.000123629	0.000147513
1.00000e-09	5.30296e-05	7.49299e-05	9.89685e-05	0.000123629	0.000147513

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	2.13649e-06	9.65752e-05	9.94528e-05	0.000101468	0.000102523
1.00000e+07	6.56108e-05	0.000250882	0.000256084	0.000249255	0.000230503
1.00000e+06	0.000282943	0.000545742	0.000464614	0.000383517	0.000313300
100000.	0.000412912	0.000618248	0.000444944	0.000338337	0.000272873
10000.0	0.000296091	0.000364115	0.000284083	0.000250948	0.000231529
1000.00	0.000193794	0.000224225	0.000227874	0.000229679	0.000224037
100.000	0.000172276	0.000199296	0.000219921	0.000227153	0.000223255
10.0000	0.000169785	0.000196435	0.000219085	0.000226903	0.000223182
1.00000	0.000169550	0.000196149	0.000219003	0.000226879	0.000223175
0.100000	0.000169528	0.000196121	0.000218995	0.000226877	0.000223174
0.0100000	0.000169526	0.000196118	0.000218994	0.000226876	0.000223174
0.00100000	0.000169526	0.000196118	0.000218994	0.000226876	0.000223174
0.000100000	0.000169526	0.000196118	0.000218994	0.000226876	0.000223174
1.00000e-05	0.000169526	0.000196118	0.000218994	0.000226876	0.000223174
1.00000e-06	0.000169526	0.000196118	0.000218994	0.000226876	0.000223174
1.00000e-07	0.000169526	0.000196118	0.000218994	0.000226876	0.000223174
1.00000e-08	0.000169526	0.000196118	0.000218994	0.000226876	0.000223174
1.00000e-09	0.000169526	0.000196118	0.000218994	0.000226876	0.000223174

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.000102002	9.94954e-05	9.52613e-05	8.98271e-05	8.37094e-05
1.00000e+07	0.000206439	0.000181630	0.000158406	0.000137654	0.000119510
1.00000e+06	0.000257360	0.000214295	0.000181049	0.000154578	0.000132671
100000.	0.000231382	0.000201553	0.000176909	0.000154838	0.000134622
10000.0	0.000214074	0.000195253	0.000175142	0.000154730	0.000135003
1000.00	0.000211611	0.000194547	0.000175017	0.000154776	0.000135083
100.000	0.000211381	0.000194491	0.000175014	0.000154786	0.000135094
10.0000	0.000211361	0.000194486	0.000175014	0.000154787	0.000135095
1.00000	0.000211358	0.000194486	0.000175014	0.000154787	0.000135095
0.100000	0.000211358	0.000194486	0.000175014	0.000154787	0.000135095
0.0100000	0.000211358	0.000194486	0.000175014	0.000154787	0.000135095
0.00100000	0.000211358	0.000194486	0.000175014	0.000154787	0.000135095

0.000100000	0.000211358	0.000194486	0.000175014	0.000154787	0.000135095
1.00000e-05	0.000211358	0.000194486	0.000175014	0.000154787	0.000135095
1.00000e-06	0.000211358	0.000194486	0.000175014	0.000154787	0.000135095
1.00000e-07	0.000211358	0.000194486	0.000175014	0.000154787	0.000135095
1.00000e-08	0.000211358	0.000194486	0.000175014	0.000154787	0.000135095
1.00000e-09	0.000211358	0.000194486	0.000175014	0.000154787	0.000135095

Pa\K	4000.00
1.00000e+08	7.73182e-05
1.00000e+07	0.000103789
1.00000e+06	0.000114013
100000.	0.000116244
10000.0	0.000116684
1000.00	0.000116755
100.000	0.000116764
10.0000	0.000116765
1.00000	0.000116765
0.100000	0.000116765
0.0100000	0.000116765
0.00100000	0.000116765
0.000100000	0.000116765
1.00000e-05	0.000116765
1.00000e-06	0.000116765
1.00000e-07	0.000116765
1.00000e-08	0.000116765
1.00000e-09	0.000116765

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	N/A	N/A	N/A	N/A	N/A
1.00000e+07	N/A	N/A	N/A	N/A	N/A
1.00000e+06	N/A	N/A	N/A	N/A	N/A
100000.	N/A	N/A	N/A	N/A	N/A
10000.0	N/A	N/A	N/A	N/A	N/A
1000.00	N/A	N/A	N/A	N/A	N/A
100.000	N/A	N/A	N/A	N/A	N/A
10.0000	N/A	N/A	N/A	N/A	N/A
1.00000	N/A	N/A	N/A	N/A	N/A
0.100000	N/A	N/A	N/A	N/A	N/A
0.0100000	N/A	N/A	N/A	N/A	N/A
0.00100000	N/A	N/A	N/A	N/A	N/A
0.000100000	N/A	N/A	N/A	N/A	N/A
1.00000e-05	N/A	N/A	N/A	N/A	N/A
1.00000e-06	N/A	N/A	N/A	N/A	N/A
1.00000e-07	N/A	N/A	N/A	N/A	N/A
1.00000e-08	N/A	N/A	N/A	N/A	N/A
1.00000e-09	N/A	N/A	N/A	N/A	N/A

Pa\K	70.0000	80.0000	90.0000	100.0000	110.0000
1.00000e+08	N/A	N/A	N/A	N/A	N/A
1.00000e+07	N/A	N/A	N/A	N/A	N/A
1.00000e+06	N/A	N/A	N/A	N/A	N/A
100000.	N/A	N/A	N/A	N/A	N/A
10000.0	N/A	N/A	N/A	N/A	N/A
1000.00	N/A	N/A	N/A	N/A	N/A
100.000	N/A	N/A	N/A	N/A	N/A
10.0000	N/A	N/A	N/A	N/A	N/A
1.00000	N/A	N/A	N/A	N/A	N/A
0.100000	N/A	N/A	N/A	N/A	N/A
0.0100000	N/A	N/A	N/A	N/A	N/A
0.00100000	N/A	N/A	N/A	N/A	N/A
0.000100000	N/A	N/A	N/A	N/A	N/A
1.00000e-05	N/A	N/A	N/A	N/A	N/A
1.00000e-06	N/A	N/A	N/A	N/A	N/A
1.00000e-07	N/A	N/A	N/A	N/A	N/A
1.00000e-08	N/A	N/A	N/A	N/A	N/A
1.00000e-09	N/A	N/A	N/A	N/A	N/A

Pa\K	120.0000	130.0000	140.0000	150.0000	160.0000
1.00000e+08	N/A	N/A	N/A	N/A	N/A
1.00000e+07	N/A	N/A	N/A	N/A	N/A
1.00000e+06	N/A	N/A	N/A	N/A	N/A
100000.	N/A	N/A	N/A	N/A	N/A
10000.0	N/A	N/A	N/A	N/A	N/A
1000.00	N/A	N/A	N/A	N/A	N/A

100.0000	N/A	N/A	N/A	N/A	N/A
10.0000	N/A	N/A	N/A	N/A	N/A
1.000000	N/A	N/A	N/A	N/A	N/A
0.100000	N/A	N/A	N/A	N/A	N/A
0.0100000	N/A	N/A	N/A	N/A	N/A
0.00100000	N/A	N/A	N/A	N/A	N/A
0.000100000	N/A	N/A	N/A	N/A	N/A
1.00000e-05	N/A	N/A	N/A	N/A	N/A
1.00000e-06	N/A	N/A	N/A	N/A	N/A
1.00000e-07	N/A	N/A	N/A	N/A	N/A
1.00000e-08	N/A	N/A	N/A	N/A	N/A
1.00000e-09	N/A	N/A	N/A	N/A	N/A

Pa\K | 170.000 180.000 190.000 200.000 210.000

1.00000e+08	N/A	N/A	N/A	N/A	N/A
1.00000e+07	N/A	N/A	N/A	N/A	N/A
1.00000e+06	N/A	N/A	N/A	N/A	N/A
100000.	N/A	N/A	N/A	N/A	N/A
10000.0	N/A	N/A	N/A	N/A	N/A
1000.00	N/A	N/A	N/A	N/A	N/A
100.000	N/A	N/A	N/A	N/A	N/A
10.0000	N/A	N/A	N/A	N/A	N/A
1.00000	N/A	N/A	N/A	N/A	N/A
0.100000	N/A	N/A	N/A	N/A	N/A
0.0100000	N/A	N/A	N/A	N/A	N/A
0.00100000	N/A	N/A	N/A	N/A	N/A
0.000100000	N/A	N/A	N/A	N/A	N/A
1.00000e-05	N/A	N/A	N/A	N/A	N/A
1.00000e-06	N/A	N/A	N/A	N/A	N/A
1.00000e-07	N/A	N/A	N/A	N/A	N/A
1.00000e-08	N/A	N/A	N/A	N/A	N/A
1.00000e-09	N/A	N/A	N/A	N/A	N/A

Pa\K | 220.000 230.000 240.000 250.000 260.000

1.00000e+08	N/A	N/A	N/A	N/A	N/A
1.00000e+07	N/A	N/A	N/A	N/A	N/A
1.00000e+06	N/A	N/A	N/A	N/A	N/A
100000.	N/A	N/A	N/A	N/A	N/A
10000.0	N/A	N/A	N/A	N/A	N/A
1000.00	N/A	N/A	N/A	N/A	N/A
100.000	N/A	N/A	N/A	N/A	N/A
10.0000	N/A	N/A	N/A	N/A	N/A
1.00000	N/A	N/A	N/A	N/A	N/A
0.100000	N/A	N/A	N/A	N/A	N/A
0.0100000	N/A	N/A	N/A	N/A	N/A
0.00100000	N/A	N/A	N/A	N/A	N/A
0.000100000	N/A	N/A	N/A	N/A	N/A
1.00000e-05	N/A	N/A	N/A	N/A	N/A
1.00000e-06	N/A	N/A	N/A	N/A	N/A
1.00000e-07	N/A	N/A	N/A	N/A	N/A
1.00000e-08	N/A	N/A	N/A	N/A	N/A
1.00000e-09	N/A	N/A	N/A	N/A	N/A

Pa\K | 270.000 280.000 290.000 300.000 400.000

1.00000e+08	N/A	N/A	N/A	3.17755e-28	1.11686e-18
1.00000e+07	N/A	N/A	N/A	1.01596e-24	9.92642e-16
1.00000e+06	N/A	N/A	N/A	3.38087e-22	3.13939e-14
100000.	N/A	N/A	N/A	4.82469e-21	2.31832e-14
10000.0	N/A	N/A	N/A	8.49025e-22	6.40227e-16
1000.00	N/A	N/A	N/A	3.02933e-24	5.62831e-18
100.000	N/A	N/A	N/A	4.17400e-26	2.89698e-19
10.0000	N/A	N/A	N/A	3.50954e-27	6.14275e-20
1.00000	N/A	N/A	N/A	5.70779e-28	1.52564e-20
0.100000	N/A	N/A	N/A	1.53590e-28	2.51251e-21
0.0100000	N/A	N/A	N/A	9.99715e-29	3.66740e-22
0.00100000	N/A	N/A	N/A	9.41657e-29	1.21226e-22
0.000100000	N/A	N/A	N/A	9.35776e-29	9.62639e-23
1.00000e-05	N/A	N/A	N/A	9.35187e-29	9.37637e-23
1.00000e-06	N/A	N/A	N/A	9.35128e-29	9.35133e-23
1.00000e-07	N/A	N/A	N/A	9.35121e-29	9.34889e-23
1.00000e-08	N/A	N/A	N/A	9.35121e-29	9.34862e-23
1.00000e-09	N/A	N/A	N/A	9.35121e-29	9.34862e-23

Pa\K | 500.000 600.000 700.000 800.000 900.000

1.00000e+08	7.23224e-14	3.71650e-12	4.34645e-11	3.31954e-10	1.95648e-09
1.00000e+07	4.15128e-11	1.51497e-09	9.43667e-09	3.64302e-08	1.03518e-07

1.00000e+06	8.71278e-10	4.23097e-08	2.03947e-07	4.68791e-07	7.83662e-07
100000.	3.43453e-10	5.59846e-08	3.97678e-07	8.39891e-07	1.23526e-06
10000.0	1.45385e-11	1.21492e-08	2.00636e-07	6.38709e-07	1.16562e-06
1000.00	8.53690e-13	2.78774e-09	8.93741e-08	4.12466e-07	7.55197e-07
100.000	1.30627e-13	7.52236e-10	3.18473e-08	1.43226e-07	2.04915e-07
10.0000	3.43966e-14	1.95028e-10	6.80076e-09	2.44257e-08	2.80096e-08
1.00000	7.81823e-15	3.41471e-11	8.98140e-10	2.72696e-09	2.84641e-09
0.100000	1.09837e-15	3.99710e-12	9.19741e-11	2.66190e-10	2.78322e-10
0.0100000	1.17001e-16	4.02890e-13	9.02764e-12	2.62604e-11	3.14580e-11
0.00100000	1.21607e-17	4.03011e-14	9.05131e-13	2.90024e-12	7.39274e-12
0.000100000	1.64301e-18	4.17679e-15	1.01300e-13	5.95471e-13	5.01972e-12
1.00000e-05	5.91187e-19	5.67985e-16	2.12953e-14	3.66679e-13	4.78436e-12
1.00000e-06	4.86004e-19	2.07195e-16	1.33079e-14	3.43859e-13	4.76088e-12
1.00000e-07	4.75486e-19	1.71119e-16	1.25094e-14	3.41579e-13	4.75854e-12
1.00000e-08	4.74433e-19	1.67511e-16	1.24296e-14	3.41351e-13	4.75831e-12
1.00000e-09	4.74328e-19	1.67150e-16	1.24216e-14	3.41329e-13	4.75828e-12

Pa\K | 1000.00 | 1100.00 | 1200.00 | 1300.00 | 1400.00

1.00000e+08	5.59633e-09	7.82418e-09	8.19270e-09	7.98023e-09	7.41009e-09
1.00000e+07	1.85569e-07	2.38672e-07	2.68628e-07	3.01719e-07	3.28830e-07
1.00000e+06	1.04477e-06	1.27748e-06	1.52362e-06	1.71298e-06	1.75941e-06
100000.	1.64784e-06	2.13535e-06	2.53730e-06	2.60657e-06	2.36353e-06
10000.0	1.64785e-06	1.90900e-06	1.83380e-06	1.50605e-06	1.12421e-06
1000.00	8.47693e-07	7.24573e-07	5.25120e-07	3.47637e-07	2.27250e-07
100.000	1.72936e-07	1.16640e-07	7.21977e-08	4.58177e-08	3.64376e-08
10.0000	2.01141e-08	1.24714e-08	8.17965e-09	8.02779e-09	1.42953e-08
1.00000	1.98893e-09	1.40994e-09	1.76965e-09	4.34957e-09	1.21686e-08
0.100000	2.28205e-10	3.55711e-10	1.16207e-09	4.00099e-09	1.19667e-08
0.0100000	5.91094e-11	2.54278e-10	1.10349e-09	3.96730e-09	1.19472e-08
0.00100000	4.25953e-11	2.44359e-10	1.09775e-09	3.96400e-09	1.19453e-08
0.000100000	4.09665e-11	2.43380e-10	1.09719e-09	3.96367e-09	1.19451e-08
1.00000e-05	4.08049e-11	2.43283e-10	1.09713e-09	3.96365e-09	1.19451e-08
1.00000e-06	4.07888e-11	2.43273e-10	1.09712e-09	3.96364e-09	1.19451e-08
1.00000e-07	4.07872e-11	2.43273e-10	1.09712e-09	3.96364e-09	1.19451e-08
1.00000e-08	4.07870e-11	2.43273e-10	1.09712e-09	3.96364e-09	1.19451e-08
1.00000e-09	4.07870e-11	2.43273e-10	1.09712e-09	3.96364e-09	1.19451e-08

Pa\K | 1500.00 | 1750.00 | 2000.00 | 2250.00 | 2500.00

1.00000e+08	6.72505e-09	0.000110396	0.000114421	0.000117443	0.000119123
1.00000e+07	3.32141e-07	0.000306899	0.000313627	0.000305029	0.000279140
1.00000e+06	1.68510e-06	0.000568773	0.000466388	0.000367413	0.000274269
100000.	2.00215e-06	0.000499070	0.000300145	0.000177963	0.000101658
10000.0	8.13897e-07	0.000175679	7.54482e-05	3.50108e-05	1.90139e-05
1000.00	1.63990e-07	2.80009e-05	1.03900e-05	5.74458e-06	6.04756e-06
100.000	4.53123e-08	3.24377e-06	1.69716e-06	2.38393e-06	4.69288e-06
10.0000	3.22274e-08	4.77778e-07	7.95872e-07	2.04962e-06	4.56080e-06
1.00000	3.09788e-08	2.01513e-07	7.07003e-07	2.01686e-06	4.54791e-06
0.100000	3.08600e-08	1.74289e-07	6.98241e-07	2.01364e-06	4.54664e-06
0.0100000	3.08485e-08	1.71595e-07	6.97374e-07	2.01332e-06	4.54650e-06
0.00100000	3.08474e-08	1.71327e-07	6.97287e-07	2.01329e-06	4.54650e-06
0.000100000	3.08473e-08	1.71300e-07	6.97280e-07	2.01328e-06	4.54650e-06
1.00000e-05	3.08472e-08	1.71297e-07	6.97277e-07	2.01328e-06	4.54650e-06
1.00000e-06	3.08472e-08	1.71297e-07	6.97277e-07	2.01328e-06	4.54650e-06
1.00000e-07	3.08472e-08	1.71297e-07	6.97277e-07	2.01328e-06	4.54650e-06
1.00000e-08	3.08472e-08	1.71297e-07	6.97277e-07	2.01328e-06	4.54650e-06
1.00000e-09	3.08472e-08	1.71297e-07	6.97277e-07	2.01328e-06	4.54650e-06

Pa\K | 2750.00 | 3000.00 | 3250.00 | 3500.00 | 3750.00

1.00000e+08	0.000118744	0.000115854	0.000110793	0.000104243	9.68943e-05
1.00000e+07	0.000244846	0.000208965	0.000175539	0.000146657	0.000123111
1.00000e+06	0.000197290	0.000140563	0.000102675	7.96950e-05	6.72743e-05
100000.	6.02589e-05	4.13036e-05	3.51172e-05	3.57142e-05	3.96382e-05
10000.0	1.50617e-05	1.70837e-05	2.21653e-05	2.87622e-05	3.59060e-05
1000.00	9.20187e-06	1.43265e-05	2.08148e-05	2.80809e-05	3.55576e-05
100.000	8.62126e-06	1.40610e-05	2.06870e-05	2.80172e-05	3.55253e-05
10.0000	8.56515e-06	1.40354e-05	2.06748e-05	2.80110e-05	3.55223e-05
1.00000	8.55966e-06	1.40329e-05	2.06735e-05	2.80105e-05	3.55219e-05
0.100000	8.55914e-06	1.40327e-05	2.06734e-05	2.80103e-05	3.55219e-05
0.0100000	8.55909e-06	1.40327e-05	2.06734e-05	2.80103e-05	3.55219e-05
0.00100000	8.55909e-06	1.40327e-05	2.06734e-05	2.80103e-05	3.55219e-05
0.000100000	8.55906e-06	1.40327e-05	2.06734e-05	2.80103e-05	3.55219e-05
1.00000e-05	8.55906e-06	1.40327e-05	2.06734e-05	2.80103e-05	3.55219e-05
1.00000e-06	8.55906e-06	1.40327e-05	2.06734e-05	2.80103e-05	3.55219e-05
1.00000e-07	8.55906e-06	1.40327e-05	2.06734e-05	2.80103e-05	3.55219e-05
1.00000e-08	8.55906e-06	1.40327e-05	2.06734e-05	2.80103e-05	3.55219e-05
1.00000e-09	8.55906e-06	1.40327e-05	2.06734e-05	2.80103e-05	3.55219e-05

Pa\K	4000.00
1.00000e+08	8.93131e-05
1.00000e+07	0.000104819
1.00000e+06	6.16876e-05
100000.	4.49090e-05
10000.0	4.29299e-05
1000.00	4.27535e-05
100.000	4.27374e-05
10.0000	4.27360e-05
1.00000	4.27358e-05
0.100000	4.27358e-05
0.0100000	4.27358e-05
0.00100000	4.27358e-05
0.000100000	4.27358e-05
1.00000e-05	4.27358e-05
1.00000e-06	4.27358e-05
1.00000e-07	4.27358e-05
1.00000e-08	4.27358e-05
1.00000e-09	4.27358e-05

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.80102e-16	4.28138e-16	8.71713e-16	1.69700e-15	3.16390e-15
1.00000e+07	1.80102e-15	4.28137e-15	8.71710e-15	1.69699e-14	3.16388e-14
1.00000e+06	1.80100e-14	4.28126e-14	8.71679e-14	1.69692e-13	3.16372e-13
100000.	1.80077e-13	4.28021e-13	8.71377e-13	1.69618e-12	3.16204e-12
10000.0	1.79849e-12	4.26967e-12	8.68363e-12	1.68879e-11	3.14541e-11
1000.00	1.77598e-11	4.16700e-11	8.39325e-11	1.61839e-10	2.98860e-10
100.000	1.57687e-10	3.35130e-10	6.28071e-10	1.14353e-09	2.00247e-09
10.0000	7.13731e-10	1.07183e-09	1.73176e-09	2.89487e-09	4.71326e-09
1.00000	9.46702e-10	1.26062e-09	2.04844e-09	3.42645e-09	5.52227e-09
0.100000	9.64928e-10	1.34615e-09	2.24443e-09	3.81302e-09	6.24462e-09
0.0100000	1.29963e-09	2.13356e-09	3.82782e-09	6.89357e-09	1.20939e-08
0.00100000	4.12784e-09	7.83891e-09	1.41560e-08	2.53625e-08	4.43517e-08
0.000100000	1.33504e-08	1.92097e-08	3.07805e-08	5.14158e-08	8.42993e-08
1.00000e-05	1.61488e-08	2.14368e-08	3.46391e-08	5.77998e-08	9.36940e-08
1.00000e-06	1.59521e-08	2.15063e-08	3.50244e-08	5.85234e-08	9.47686e-08
1.00000e-07	1.59134e-08	2.15093e-08	3.50625e-08	5.85966e-08	9.48777e-08
1.00000e-08	1.59093e-08	2.15096e-08	3.50663e-08	5.86040e-08	9.48886e-08
1.00000e-09	1.59089e-08	2.15096e-08	3.50666e-08	5.86047e-08	9.48897e-08

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	5.66892e-15	9.83799e-15	1.66586e-14	2.76747e-14	4.52837e-14
1.00000e+07	5.66889e-14	9.83792e-14	1.66585e-13	2.76744e-13	4.52831e-13
1.00000e+06	5.66853e-13	9.83719e-13	1.66570e-12	2.76715e-12	4.52776e-12
100000.	5.66497e-12	9.82987e-12	1.66424e-11	2.76429e-11	4.52222e-11
10000.0	5.62956e-11	9.75736e-11	1.64978e-10	2.73600e-10	4.46763e-10
1000.00	5.29957e-10	9.08995e-10	1.51859e-09	2.48366e-09	3.99057e-09
100.000	3.36400e-09	5.44909e-09	8.56286e-09	1.31181e-08	1.96645e-08
10.0000	7.37482e-09	1.11406e-08	1.63667e-08	2.35238e-08	3.32245e-08
1.00000	8.52378e-09	1.27115e-08	1.84825e-08	2.63776e-08	3.71249e-08
0.100000	9.84668e-09	1.51157e-08	2.28249e-08	3.41501e-08	5.08727e-08
0.0100000	2.07283e-08	3.49890e-08	5.84105e-08	9.64652e-08	1.57368e-07
0.00100000	7.53941e-08	1.24735e-07	2.01034e-07	3.15790e-07	4.83858e-07
0.000100000	1.34021e-07	2.07204e-07	3.12822e-07	4.62501e-07	6.71015e-07
1.00000e-05	1.46770e-07	2.23623e-07	3.33232e-07	4.87229e-07	7.00384e-07
1.00000e-06	1.48209e-07	2.25443e-07	3.35457e-07	4.89886e-07	7.03502e-07
1.00000e-07	1.48355e-07	2.25627e-07	3.35682e-07	4.90154e-07	7.03816e-07
1.00000e-08	1.48369e-07	2.25646e-07	3.35704e-07	4.90181e-07	7.03848e-07
1.00000e-09	1.48371e-07	2.25648e-07	3.35707e-07	4.90183e-07	7.03851e-07

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	7.31919e-14	1.17112e-13	1.85818e-13	2.92728e-13	4.58264e-13
1.00000e+07	7.31908e-13	1.17110e-12	1.85814e-12	2.92721e-12	4.58250e-12
1.00000e+06	7.31802e-12	1.17090e-11	1.85776e-11	2.92650e-11	4.58118e-11
100000.	7.30743e-11	1.16889e-10	1.85397e-10	2.91938e-10	4.56790e-10
10000.0	7.20329e-10	1.14920e-09	1.81699e-09	2.85037e-09	4.43990e-09
1000.00	6.31443e-09	9.85709e-09	1.51989e-08	2.31675e-08	3.49271e-08
100.000	2.89256e-08	4.18477e-08	5.96596e-08	8.39473e-08	1.16742e-07
10.0000	4.62614e-08	6.36600e-08	8.67478e-08	1.17240e-07	1.57350e-07
1.00000	5.17074e-08	7.14630e-08	9.82307e-08	1.34561e-07	1.84021e-07
0.100000	7.56966e-08	1.12740e-07	1.68275e-07	2.51817e-07	3.77689e-07
0.0100000	2.53142e-07	4.00978e-07	6.24896e-07	9.57695e-07	1.44316e-06
0.00100000	7.24186e-07	1.06078e-06	1.52394e-06	2.15172e-06	2.99174e-06
0.000100000	9.57034e-07	1.34413e-06	1.86209e-06	2.54835e-06	3.44992e-06

1.00000e-05	9.91349e-07	1.38368e-06	1.90710e-06	2.59905e-06	3.50646e-06
1.00000e-06	9.94956e-07	1.38780e-06	1.91177e-06	2.60427e-06	3.51225e-06
1.00000e-07	9.95319e-07	1.38822e-06	1.91223e-06	2.60480e-06	3.51284e-06
1.00000e-08	9.95355e-07	1.38826e-06	1.91228e-06	2.60485e-06	3.51289e-06
1.00000e-09	9.95359e-07	1.38826e-06	1.91229e-06	2.60486e-06	3.51290e-06

Pa\K | 170.000 180.000 190.000 200.000 210.000

1.00000e+08	7.13332e-13	1.10443e-12	1.70107e-12	2.60652e-12	3.97312e-12
1.00000e+07	7.13308e-12	1.10438e-11	1.70098e-11	2.60637e-11	3.97283e-11
1.00000e+06	7.13059e-11	1.10392e-10	1.70014e-10	2.60482e-10	3.97001e-10
100000.	7.10594e-10	1.09937e-09	1.69176e-09	2.58949e-09	3.94214e-09
10000.0	6.86994e-09	1.05613e-08	1.61311e-08	2.44748e-08	3.68787e-08
1000.00	5.20903e-08	7.68581e-08	1.12187e-07	1.61987e-07	2.31353e-07
100.000	1.60631e-07	2.18877e-07	2.95579e-07	3.95840e-07	5.25989e-07
10.0000	2.09928e-07	2.78640e-07	3.68197e-07	4.84660e-07	6.35848e-07
1.00000	2.51640e-07	3.44563e-07	4.73000e-07	6.51604e-07	9.01447e-07
0.100000	5.67205e-07	8.51617e-07	1.27595e-06	1.90383e-06	2.82325e-06
0.0100000	2.13852e-06	3.11709e-06	4.47113e-06	6.31492e-06	8.78808e-06
0.00100000	4.10319e-06	5.55927e-06	7.44989e-06	9.88470e-06	1.29968e-05
0.000100000	4.62531e-06	6.14707e-06	8.10445e-06	1.06065e-05	1.37855e-05
1.00000e-05	4.68784e-06	6.21569e-06	8.17919e-06	1.06874e-05	1.38725e-05
1.00000e-06	4.69423e-06	6.22266e-06	8.18678e-06	1.06956e-05	1.38813e-05
1.00000e-07	4.69486e-06	6.22337e-06	8.18753e-06	1.06964e-05	1.38821e-05
1.00000e-08	4.69493e-06	6.22344e-06	8.18761e-06	1.06964e-05	1.38822e-05
1.00000e-09	4.69493e-06	6.22344e-06	8.18762e-06	1.06964e-05	1.38822e-05

Pa\K | 220.000 230.000 240.000 250.000 260.000

1.00000e+08	6.02411e-12	9.08440e-12	1.36233e-11	2.03143e-11	3.01154e-11
1.00000e+07	6.02360e-11	9.08348e-11	1.36218e-10	2.03114e-10	3.01103e-10
1.00000e+06	6.01850e-10	9.07431e-10	1.36053e-09	2.02824e-09	3.00592e-09
100000.	5.96816e-09	8.98401e-09	1.34446e-08	1.99985e-08	2.95620e-08
10000.0	5.51699e-08	8.19126e-08	1.20663e-07	1.76287e-07	2.55359e-07
1000.00	3.26823e-07	4.56674e-07	6.31243e-07	8.63280e-07	1.16833e-06
100.000	6.93824e-07	9.08912e-07	1.18293e-06	1.53012e-06	1.96774e-06
10.0000	8.31874e-07	1.08590e-06	1.41512e-06	1.84218e-06	2.39703e-06
1.00000	1.25280e-06	1.74901e-06	2.45166e-06	3.44745e-06	4.85691e-06
0.100000	4.15331e-06	6.05161e-06	8.72215e-06	1.24233e-05	1.74758e-05
0.0100000	1.20591e-05	1.63293e-05	2.18370e-05	2.88624e-05	3.77321e-05
0.00100000	1.69463e-05	2.19247e-05	2.81598e-05	3.59207e-05	4.55230e-05
0.000100000	1.78012e-05	2.28443e-05	2.91422e-05	3.69633e-05	4.66229e-05
1.00000e-05	1.78940e-05	2.29430e-05	2.92466e-05	3.70732e-05	4.67380e-05
1.00000e-06	1.79035e-05	2.29530e-05	2.92572e-05	3.70843e-05	4.67496e-05
1.00000e-07	1.79044e-05	2.29541e-05	2.92582e-05	3.70854e-05	4.67507e-05
1.00000e-08	1.79044e-05	2.29542e-05	2.92583e-05	3.70855e-05	4.67508e-05
1.00000e-09	1.79045e-05	2.29542e-05	2.92584e-05	3.70855e-05	4.67508e-05

Pa\K | 270.000 280.000 290.000 300.000 400.000

1.00000e+08	4.43782e-11	6.49910e-11	9.45617e-11	4.24257e-10	9.48501e-09
1.00000e+07	4.43692e-10	6.49756e-10	9.45354e-10	4.23574e-09	9.43078e-08
1.00000e+06	4.42804e-09	6.48222e-09	9.42734e-09	4.16946e-08	8.94938e-07
100000.	4.34177e-08	6.33409e-08	9.17590e-08	3.64476e-07	6.27619e-06
10000.0	3.66630e-07	5.21584e-07	7.35044e-07	1.81231e-06	1.89158e-05
1000.00	1.56516e-06	2.07612e-06	2.72763e-06	3.40460e-06	2.72075e-05
100.000	2.51670e-06	3.20227e-06	4.05485e-06	4.27157e-06	4.63564e-05
10.0000	3.11939e-06	4.06212e-06	5.29517e-06	8.65755e-06	0.000151744
1.00000	6.84501e-06	9.63372e-06	1.35156e-05	3.06198e-05	0.000399655
0.100000	2.42693e-05	3.32691e-05	4.50199e-05	6.97323e-05	0.000578302
0.0100000	4.88248e-05	6.25759e-05	7.94827e-05	8.81216e-05	0.000620075
0.00100000	5.73346e-05	7.17811e-05	8.93509e-05	9.10077e-05	0.000625171
0.000100000	5.84883e-05	7.29848e-05	9.06004e-05	9.13159e-05	0.000625696
1.00000e-05	5.86083e-05	7.31093e-05	9.07290e-05	9.13471e-05	0.000625749
1.00000e-06	5.86203e-05	7.31217e-05	9.07418e-05	9.13501e-05	0.000625754
1.00000e-07	5.86215e-05	7.31230e-05	9.07432e-05	9.13505e-05	0.000625754
1.00000e-08	5.86216e-05	7.31232e-05	9.07433e-05	9.13505e-05	0.000625754
1.00000e-09	5.86216e-05	7.31232e-05	9.07433e-05	9.13505e-05	0.000625754

Pa\K | 500.000 600.000 700.000 800.000 900.000

1.00000e+08	1.53931e-07	2.58903e-06	2.94833e-05	0.000286710	0.00277186
1.00000e+07	1.48205e-06	1.91754e-05	0.000182812	0.00119800	0.00553209
1.00000e+06	1.26193e-05	0.000116054	0.000647692	0.00231912	0.00632774
100000.	5.90676e-05	0.000320637	0.00113341	0.00322275	0.00912501
10000.0	0.000112636	0.000487532	0.00193881	0.00721836	0.0228073
1000.00	0.000172634	0.00108045	0.00556917	0.0192573	0.0466409
100.000	0.000486130	0.00334630	0.0131952	0.0332469	0.0624972
10.0000	0.00142480	0.00664250	0.0188942	0.0392645	0.0667668
1.00000	0.00238141	0.00827077	0.0204905	0.0403895	0.0673651

0.100000	0.00270377	0.00859123	0.0207148	0.0405212	0.0674292
0.0100000	0.00275181	0.00862900	0.0207387	0.0405348	0.0674357
0.00100000	0.00275697	0.00863292	0.0207412	0.0405361	0.0674364
0.000100000	0.00275750	0.00863333	0.0207414	0.0405363	0.0674364
1.00000e-05	0.00275755	0.00863333	0.0207415	0.0405363	0.0674364
1.00000e-06	0.00275756	0.00863333	0.0207415	0.0405363	0.0674364
1.00000e-07	0.00275756	0.00863333	0.0207415	0.0405363	0.0674364
1.00000e-08	0.00275756	0.00863333	0.0207415	0.0405363	0.0674364
1.00000e-09	0.00275756	0.00863333	0.0207415	0.0405363	0.0674364

Pa\K	1000.00	1100.00	1200.00	1300.00	1400.00
1.00000e+08	0.0122244	0.0247095	0.0344806	0.0444879	0.0527745
1.00000e+07	0.0153956	0.0312144	0.0585510	0.100632	0.138671
1.00000e+06	0.0154567	0.0382567	0.0849219	0.144928	0.192272
100000.	0.0258379	0.0633476	0.120246	0.176307	0.215835
10000.0	0.0550320	0.101768	0.151175	0.191788	0.221037
1000.00	0.0845583	0.125254	0.162391	0.193401	0.218366
100.000	0.0965255	0.131207	0.163687	0.192367	0.216616
10.0000	0.0987218	0.131957	0.163693	0.192086	0.216275
1.00000	0.0989774	0.132034	0.163692	0.192057	0.216240
0.100000	0.0990045	0.132043	0.163693	0.192054	0.216237
0.0100000	0.0990073	0.132044	0.163693	0.192054	0.216237
0.00100000	0.0990073	0.132044	0.163693	0.192054	0.216237
0.000100000	0.0990073	0.132044	0.163693	0.192054	0.216237
1.00000e-05	0.0990073	0.132044	0.163693	0.192054	0.216237
1.00000e-06	0.0990073	0.132044	0.163693	0.192054	0.216237
1.00000e-07	0.0990073	0.132044	0.163693	0.192054	0.216237
1.00000e-08	0.0990073	0.132044	0.163693	0.192054	0.216237
1.00000e-09	0.0990073	0.132044	0.163693	0.192054	0.216237

Pa\K	1500.00	1750.00	2000.00	2250.00	2500.00
1.00000e+08	0.0508856	0.224689	0.275415	0.283376	0.279213
1.00000e+07	0.153887	0.254329	0.299363	0.305044	0.298531
1.00000e+06	0.219452	0.278217	0.310395	0.308980	0.300749
100000.	0.240258	0.284626	0.302512	0.300063	0.295889
10000.0	0.241785	0.278867	0.291234	0.293584	0.293469
1000.00	0.238166	0.273849	0.286758	0.291881	0.293001
100.000	0.236452	0.272319	0.285881	0.291630	0.292945
10.0000	0.236143	0.272076	0.285771	0.291602	0.292940
1.00000	0.236112	0.272050	0.285760	0.291600	0.292939
0.100000	0.236110	0.272048	0.285759	0.291600	0.292939
0.0100000	0.236109	0.272047	0.285759	0.291600	0.292939
0.00100000	0.236109	0.272047	0.285759	0.291600	0.292939
0.000100000	0.236109	0.272047	0.285759	0.291600	0.292939
1.00000e-05	0.236109	0.272047	0.285759	0.291600	0.292939
1.00000e-06	0.236109	0.272047	0.285759	0.291600	0.292939
1.00000e-07	0.236109	0.272047	0.285759	0.291600	0.292939
1.00000e-08	0.236109	0.272047	0.285759	0.291600	0.292939
1.00000e-09	0.236109	0.272047	0.285759	0.291600	0.292939

Pa\K	2750.00	3000.00	3250.00	3500.00	3750.00
1.00000e+08	0.273742	0.268882	0.265007	0.262075	0.259872
1.00000e+07	0.291410	0.285714	0.281276	0.277551	0.274127
1.00000e+06	0.294236	0.289305	0.285041	0.280970	0.276955
100000.	0.292503	0.289076	0.285333	0.281355	0.277291
10000.0	0.291790	0.288929	0.285344	0.281397	0.277330
1000.00	0.291681	0.288912	0.285348	0.281403	0.277335
100.000	0.291670	0.288911	0.285348	0.281404	0.277336
10.0000	0.291669	0.288911	0.285348	0.281404	0.277336
1.00000	0.291669	0.288911	0.285349	0.281404	0.277336
0.100000	0.291669	0.288911	0.285349	0.281404	0.277336
0.0100000	0.291669	0.288911	0.285349	0.281404	0.277336
0.00100000	0.291669	0.288911	0.285349	0.281404	0.277336
0.000100000	0.291669	0.288911	0.285349	0.281404	0.277336
1.00000e-05	0.291669	0.288911	0.285349	0.281404	0.277336
1.00000e-06	0.291669	0.288911	0.285349	0.281404	0.277336
1.00000e-07	0.291669	0.288911	0.285349	0.281404	0.277336
1.00000e-08	0.291669	0.288911	0.285349	0.281404	0.277336
1.00000e-09	0.291669	0.288911	0.285349	0.281404	0.277336

Pa\K	4000.00
1.00000e+08	0.258120
1.00000e+07	0.270796
1.00000e+06	0.273005
100000.	0.273261
10000.0	0.273291

1000.00		0.273295
100.000		0.273295
10.0000		0.273295
1.00000		0.273295
0.100000		0.273295
0.0100000		0.273295
0.00100000		0.273295
0.000100000		0.273295
1.00000e-05		0.273295
1.00000e-06		0.273295
1.00000e-07		0.273295
1.00000e-08		0.273295
1.00000e-09		0.273295