

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

- Supporting information -

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Content

Page 2 : Modified Arrhenius expressions for the rate coefficient of the benzyl + acetylene 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 963 : Tabulated effective product yields for the major products

Product species needed to obtain a product fraction of 0.995

species	maximum contribution
Indene+H	1.00000
rad20	0.999996
PhCH ₂ CCH+H	0.595618
rad22	0.572686
rad21	0.263695
rad18	0.171125
PhCHCCH ₂ +H	0.161819
Ph+Allene	0.104926
rad23	0.101050
rad45	0.0705181
rad6	0.0345606
PAH ₃ +H	0.0332896
rad11	0.0225527
rad50	0.0215186
rad9	0.0195022
PAH ₉ +H	0.0186062
rad39	0.0178671
rad51	0.0173912
rad71	0.0153456
PAH ₇ +H	0.0151909
rad38	0.0140360
rad36	0.00692738
rad46	0.00642053
rad19anti	0.00632991
PhCCH+CH ₃	0.00627731
rad73	0.00478529
rad30	0.00419530
Ph+MeAc	0.00395008
rad35	0.00346264
Benzyl+C ₂ H ₂	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 benzyl + acetylene, as obtained in the TST calculations. As redissociation is a very important channel at temperatures above 1000K, it needs to be taken into account to get the effective rate coefficient of this reactions. See main text for a modified Arrhenius expression for T=1000-4000K including redissociation corrections.

10-300 K : $k_{\text{rad20}}(T) = 1.036 \times 10^{-11} \cdot T^{-0.590} \cdot \exp(-55.183 \text{ kJ mol}^{-1} / kT)$
reproduces TST calculations within factor of 1.4

200-2000 K : $k_{\text{rad20}}(T) = 3.391 \times 10^{-18} \cdot T^{1.842} \cdot \exp(-51.819 \text{ kJ mol}^{-1} / kT)$
reproduces TST calculations within factor of 1.04

1000-4000 K : $k_{\text{rad20}}(T) = 8.067 \times 10^{-19} \cdot T^{2.022} \cdot \exp(-50.289 \text{ kJ mol}^{-1} / kT)$
reproduces TST calculations within factor of 1.0002

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         | 1.343336e-156 (1.00 )  1.343336e-156 (1.00 )
-----
species       | PYtrue      Cumul      | PYeffective  Cumul
-----
rad20         | 0.999996    0.999996    | 0.999996    0.999996
rad21         | 3.64035e-06 1.000000    | 3.64035e-06 1.000000
rad18         | 5.08657e-07 1.000000    | 5.08657e-07 1.000000
rad22         | 4.00050e-12 1.000000    | 4.00050e-12 1.000000
Benzy1+C2H2  | 8.63868e-13 1.000000    | 0.00000      1.000000
rad24         | 1.47758e-13 1.000000    | 1.47758e-13 1.000000
Indene+H     | 1.18838e-13 1.000000    | 1.18838e-13 1.000000
rad11         | 4.10061e-16 1.000000    | 4.10061e-16 1.000000
rad45         | 8.69426e-17 1.000000    | 8.69426e-17 1.000000
rad36         | 8.16642e-18 1.000000    | 8.16642e-18 1.000000
rad23         | 3.38759e-21 1.000000    | 3.38759e-21 1.000000
rad6          | 4.56654e-25 1.000000    | 4.56654e-25 1.000000
rad30         | 4.07086e-27 1.000000    | 4.07086e-27 1.000000
rad15         | 8.39424e-30 1.000000    | 8.39424e-30 1.000000
rad8          | 9.98060e-35 1.000000    | 9.98060e-35 1.000000
rad25         | 5.10770e-36 1.000000    | 5.10770e-36 1.000000
rad13         | 3.49524e-37 1.000000    | 3.49524e-37 1.000000
rad7          | 6.35993e-38 1.000000    | 6.35993e-38 1.000000
rad33         | 4.48585e-40 1.000000    | 4.48585e-40 1.000000
rad38         | 2.92319e-40 1.000000    | 2.92319e-40 1.000000
PhCHCCH2+H  | 5.91399e-41 1.000000    | 5.91399e-41 1.000000
rad60syn     | 1.16287e-41 1.000000    | 1.16287e-41 1.000000
rad35         | 3.57958e-42 1.000000    | 3.57958e-42 1.000000
PAH9+H       | 1.59579e-42 1.000000    | 1.59579e-42 1.000000
rad60anti    | 5.37796e-43 1.000000    | 5.37796e-43 1.000000
rad9         | 3.65947e-43 1.000000    | 3.65947e-43 1.000000
rad28         | 1.23506e-44 1.000000    | 1.23506e-44 1.000000
PhCH2CCH+H  | 8.27399e-45 1.000000    | 8.27399e-45 1.000000
rad46         | 2.05236e-45 1.000000    | 2.05236e-45 1.000000
Ph+Allene    | 1.27002e-46 1.000000    | 1.27002e-46 1.000000
rad3          | 1.29103e-48 1.000000    | 1.29103e-48 1.000000
PAH7+H       | 9.05508e-49 1.000000    | 9.05508e-49 1.000000
rad4         | 1.39034e-49 1.000000    | 1.39034e-49 1.000000
PAH3+H       | 5.19573e-50 1.000000    | 5.19573e-50 1.000000
rad59        | 2.55002e-50 1.000000    | 2.55002e-50 1.000000
rad26        | 1.03848e-52 1.000000    | 1.03848e-52 1.000000
rad31        | 1.85634e-58 1.000000    | 1.85634e-58 1.000000
rad39        | 1.17641e-59 1.000000    | 1.17641e-59 1.000000
rad50        | 5.92591e-60 1.000000    | 5.92591e-60 1.000000
rad2         | 3.52590e-60 1.000000    | 3.52590e-60 1.000000
rad1         | 2.21508e-61 1.000000    | 2.21508e-61 1.000000
rad10        | 4.39737e-62 1.000000    | 4.39737e-62 1.000000
rad14        | 3.16334e-64 1.000000    | 3.16334e-64 1.000000
PhCCH+CH3   | 2.48045e-64 1.000000    | 2.48045e-64 1.000000
rad12        | 3.42679e-65 1.000000    | 3.42679e-65 1.000000
rad37        | 7.66161e-67 1.000000    | 7.66161e-67 1.000000
rad58        | 1.02444e-68 1.000000    | 1.02444e-68 1.000000
rad52        | 3.73627e-69 1.000000    | 3.73627e-69 1.000000
Ph+MeAc     | 7.91728e-71 1.000000    | 7.91728e-71 1.000000
rad51        | 1.20233e-73 1.000000    | 1.20233e-73 1.000000
rad27        | 1.52234e-74 1.000000    | 1.52234e-74 1.000000
PhCCCH3+H   | 1.93006e-76 1.000000    | 1.93006e-76 1.000000

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rad70	4.85658e-77	1.00000	4.85658e-77	1.00000
PAH10+CH3	1.34523e-77	1.00000	1.34523e-77	1.00000
rad19syn	1.26012e-78	1.00000	1.26012e-78	1.00000
rad47	1.90699e-79	1.00000	1.90699e-79	1.00000
rad54	1.57450e-79	1.00000	1.57450e-79	1.00000
rad65	3.91997e-80	1.00000	3.91997e-80	1.00000
rad34	4.49173e-82	1.00000	4.49173e-82	1.00000
rad5	3.64897e-82	1.00000	3.64897e-82	1.00000
PAH1+H	2.23264e-84	1.00000	2.23264e-84	1.00000
rad55	1.93832e-85	1.00000	1.93832e-85	1.00000
PhcycC3H3_A+H	4.86150e-87	1.00000	4.86150e-87	1.00000
rad62	3.18154e-93	1.00000	3.18154e-93	1.00000
rad43	1.01678e-96	1.00000	1.01678e-96	1.00000
rad42	8.86649e-101	1.00000	8.86649e-101	1.00000
rad41	1.37502e-103	1.00000	1.37502e-103	1.00000

100000000. Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.15918e-108 (1.00)	1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999992	0.999992	0.999992	0.999992
rad21	7.36733e-06	0.999999	7.36733e-06	0.999999
rad18	1.03027e-06	1.00000	1.03027e-06	1.00000
rad22	1.63960e-11	1.00000	1.63960e-11	1.00000
Benzyl+C2H2	2.02165e-12	1.00000	0.00000	1.00000
rad24	6.07632e-13	1.00000	6.07632e-13	1.00000
Indene+H	4.87498e-13	1.00000	4.87498e-13	1.00000
rad11	1.71394e-15	1.00000	1.71394e-15	1.00000
rad45	6.85944e-16	1.00000	6.85944e-16	1.00000
rad36	1.03761e-16	1.00000	1.03761e-16	1.00000
rad23	2.81496e-20	1.00000	2.81496e-20	1.00000
rad6	3.91085e-24	1.00000	3.91085e-24	1.00000
rad30	1.96240e-26	1.00000	1.96240e-26	1.00000
rad15	4.13425e-29	1.00000	4.13425e-29	1.00000
rad8	2.71911e-34	1.00000	2.71911e-34	1.00000
rad25	5.05415e-35	1.00000	5.05415e-35	1.00000
rad13	1.04377e-35	1.00000	1.04377e-35	1.00000
rad7	1.91824e-36	1.00000	1.91824e-36	1.00000
rad33	1.38626e-38	1.00000	1.38626e-38	1.00000
rad38	1.09158e-38	1.00000	1.09158e-38	1.00000
PhCHCCH2+H	6.15499e-40	1.00000	6.15499e-40	1.00000
rad35	6.61880e-41	1.00000	6.61880e-41	1.00000
rad60syn	6.28489e-41	1.00000	6.28489e-41	1.00000
PAH9+H	2.98909e-41	1.00000	2.98909e-41	1.00000
rad9	3.08226e-42	1.00000	3.08226e-42	1.00000
rad60anti	2.93609e-42	1.00000	2.93609e-42	1.00000
rad28	1.36530e-43	1.00000	1.36530e-43	1.00000
rad46	4.24110e-44	1.00000	4.24110e-44	1.00000
PhCH2CCH+H	2.44302e-44	1.00000	2.44302e-44	1.00000
Ph+Allene	1.40283e-45	1.00000	1.40283e-45	1.00000
rad3	7.82100e-47	1.00000	7.82100e-47	1.00000
rad4	1.62919e-47	1.00000	1.62919e-47	1.00000
PAH7+H	1.03441e-47	1.00000	1.03441e-47	1.00000
PAH3+H	3.01240e-49	1.00000	3.01240e-49	1.00000
rad59	1.47680e-49	1.00000	1.47680e-49	1.00000
rad26	1.22442e-51	1.00000	1.22442e-51	1.00000
rad31	2.44288e-56	1.00000	2.44288e-56	1.00000
rad2	9.03964e-58	1.00000	9.03964e-58	1.00000
rad39	2.64247e-58	1.00000	2.64247e-58	1.00000
rad50	1.41281e-58	1.00000	1.41281e-58	1.00000
rad1	1.02112e-58	1.00000	1.02112e-58	1.00000
rad10	1.04306e-60	1.00000	1.04306e-60	1.00000
rad14	4.48646e-62	1.00000	4.48646e-62	1.00000
PhCCH+CH3	3.64997e-62	1.00000	3.64997e-62	1.00000
rad12	8.14225e-64	1.00000	8.14225e-64	1.00000
rad37	1.82639e-65	1.00000	1.82639e-65	1.00000
rad52	1.81947e-67	1.00000	1.81947e-67	1.00000
rad58	6.81730e-68	1.00000	6.81730e-68	1.00000
Ph+MeAc	8.20016e-69	1.00000	8.20016e-69	1.00000
rad27	8.48571e-72	1.00000	8.48571e-72	1.00000
rad51	6.10150e-72	1.00000	6.10150e-72	1.00000
PhCCCH3+H	1.12773e-73	1.00000	1.12773e-73	1.00000
rad70	1.31834e-75	1.00000	1.31834e-75	1.00000
PAH10+CH3	3.52815e-76	1.00000	3.52815e-76	1.00000
rad19syn	1.05998e-76	1.00000	1.05998e-76	1.00000
rad54	1.35152e-77	1.00000	1.35152e-77	1.00000

rad47	5.49481e-78	1.00000	5.49481e-78	1.00000
rad65	1.02933e-78	1.00000	1.02933e-78	1.00000
rad5	1.84176e-80	1.00000	1.84176e-80	1.00000
rad34	1.26925e-80	1.00000	1.26925e-80	1.00000
PAH1+H	6.31872e-83	1.00000	6.31872e-83	1.00000
rad55	1.72711e-83	1.00000	1.72711e-83	1.00000
PhcycC3H3_A+H	4.32542e-85	1.00000	4.32542e-85	1.00000
rad62	9.77111e-91	1.00000	9.77111e-91	1.00000
rad43	5.93049e-95	1.00000	5.93049e-95	1.00000
rad42	5.47679e-99	1.00000	5.47679e-99	1.00000
rad41	8.11056e-102	1.00000	8.11056e-102	1.00000

100000000. Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999987	0.999987	0.999987	0.999987
rad21	1.10374e-05	0.999998	1.10374e-05	0.999998
rad18	1.54603e-06	1.000000	1.54603e-06	1.000000
rad22	3.68510e-11	1.000000	3.68510e-11	1.000000
Benzyl+C2H2	3.92745e-12	1.000000	0.000000	1.000000
rad24	1.37591e-12	1.000000	1.37591e-12	1.000000
Indene+H	1.09769e-12	1.000000	1.09769e-12	1.000000
rad11	4.00566e-15	1.000000	4.00566e-15	1.000000
rad45	2.25600e-15	1.000000	2.25600e-15	1.000000
rad36	4.10078e-16	1.000000	4.10078e-16	1.000000
rad23	9.51322e-20	1.000000	9.51322e-20	1.000000
rad6	1.40428e-23	1.000000	1.40428e-23	1.000000
rad30	6.13680e-26	1.000000	6.13680e-26	1.000000
rad15	1.35244e-28	1.000000	1.35244e-28	1.000000
rad8	7.51194e-34	1.000000	7.51194e-34	1.000000
rad25	2.44042e-34	1.000000	2.44042e-34	1.000000
rad13	7.43090e-35	1.000000	7.43090e-35	1.000000
rad7	1.38042e-35	1.000000	1.38042e-35	1.000000
rad38	1.04125e-37	1.000000	1.04125e-37	1.000000
rad33	1.02676e-37	1.000000	1.02676e-37	1.000000
PhCHCCH2+H	3.30395e-39	1.000000	3.30395e-39	1.000000
rad35	4.05240e-40	1.000000	4.05240e-40	1.000000
rad60syn	2.49800e-40	1.000000	2.49800e-40	1.000000
PAH9+H	1.88083e-40	1.000000	1.88083e-40	1.000000
rad9	1.61672e-41	1.000000	1.61672e-41	1.000000
rad60anti	1.19193e-41	1.000000	1.19193e-41	1.000000
rad28	8.32938e-43	1.000000	8.32938e-43	1.000000
rad46	3.32842e-43	1.000000	3.32842e-43	1.000000
PhCH2CCH+H	7.98747e-44	1.000000	7.98747e-44	1.000000
Ph+Allene	8.52998e-45	1.000000	8.52998e-45	1.000000
rad3	8.82278e-46	1.000000	8.82278e-46	1.000000
rad4	2.60606e-46	1.000000	2.60606e-46	1.000000
PAH7+H	6.76346e-47	1.000000	6.76346e-47	1.000000
PAH3+H	1.38730e-48	1.000000	1.38730e-48	1.000000
rad59	6.78488e-49	1.000000	6.78488e-49	1.000000
rad26	8.55888e-51	1.000000	8.55888e-51	1.000000
rad31	4.52827e-55	1.000000	4.52827e-55	1.000000
rad2	2.46689e-56	1.000000	2.46689e-56	1.000000
rad1	3.69740e-57	1.000000	3.69740e-57	1.000000
rad39	2.43879e-57	1.000000	2.43879e-57	1.000000
rad50	1.51000e-57	1.000000	1.51000e-57	1.000000
rad10	1.07975e-59	1.000000	1.07975e-59	1.000000
rad14	9.63330e-61	1.000000	9.63330e-61	1.000000
PhCCH+CH3	8.34242e-61	1.000000	8.34242e-61	1.000000
rad12	8.45961e-63	1.000000	8.45961e-63	1.000000
rad37	1.91094e-64	1.000000	1.91094e-64	1.000000
rad52	3.19758e-66	1.000000	3.19758e-66	1.000000
rad58	4.19346e-67	1.000000	4.19346e-67	1.000000
Ph+MeAc	2.02796e-67	1.000000	2.02796e-67	1.000000
rad27	3.90153e-70	1.000000	3.90153e-70	1.000000
rad51	1.18040e-70	1.000000	1.18040e-70	1.000000
PhCCCH3+H	5.69331e-72	1.000000	5.69331e-72	1.000000
rad70	1.80557e-74	1.000000	1.80557e-74	1.000000
PAH10+CH3	4.52042e-75	1.000000	4.52042e-75	1.000000
rad19syn	2.37677e-75	1.000000	2.37677e-75	1.000000
rad54	3.19423e-76	1.000000	3.19423e-76	1.000000
rad47	8.79735e-77	1.000000	8.79735e-77	1.000000
rad65	1.31677e-77	1.000000	1.31677e-77	1.000000
rad5	3.18072e-79	1.000000	3.18072e-79	1.000000
rad34	1.89123e-79	1.000000	1.89123e-79	1.000000

PAH1+H	9.52252e-82	1.000000	9.52252e-82	1.000000
rad55	4.50667e-82	1.000000	4.50667e-82	1.000000
PhcycC3H3_A+H	1.12571e-83	1.000000	1.12571e-83	1.000000
rad62	5.02723e-89	1.000000	5.02723e-89	1.000000
rad43	1.36919e-93	1.000000	1.36919e-93	1.000000
rad42	1.42801e-97	1.000000	1.42801e-97	1.000000
rad41	1.95215e-100	1.000000	1.95215e-100	1.000000

100000000. Pa, 50.0000000 K

=====				
Rate constant	True (fraction)		Effective (fraction)	

Total	2.31816e-70 (1.00)		2.31816e-70 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

rad20	0.999983	0.999983	0.999983	0.999983
rad21	1.47309e-05	0.999998	1.47309e-05	0.999998
rad18	2.06796e-06	1.000000	2.06796e-06	1.000000
rad22	6.57746e-11	1.000000	6.57746e-11	1.000000
Benzyl+C2H2	7.12724e-12	1.000000	0.000000	1.000000
rad24	2.48146e-12	1.000000	2.48146e-12	1.000000
Indene+H	1.96413e-12	1.000000	1.96413e-12	1.000000
rad11	7.53559e-15	1.000000	7.53559e-15	1.000000
rad45	5.32645e-15	1.000000	5.32645e-15	1.000000
rad36	1.05054e-15	1.000000	1.05054e-15	1.000000
rad23	2.27833e-19	1.000000	2.27833e-19	1.000000
rad6	3.65294e-23	1.000000	3.65294e-23	1.000000
rad30	1.74698e-25	1.000000	1.74698e-25	1.000000
rad15	4.10734e-28	1.000000	4.10734e-28	1.000000
rad8	2.37912e-33	1.000000	2.37912e-33	1.000000
rad25	9.68012e-34	1.000000	9.68012e-34	1.000000
rad13	3.12658e-34	1.000000	3.12658e-34	1.000000
rad7	5.87647e-35	1.000000	5.87647e-35	1.000000
rad38	6.22474e-37	1.000000	6.22474e-37	1.000000
rad33	4.51697e-37	1.000000	4.51697e-37	1.000000
PhCHCCH2+H	1.52381e-38	1.000000	1.52381e-38	1.000000
rad35	1.68050e-39	1.000000	1.68050e-39	1.000000
rad60syn	9.99456e-40	1.000000	9.99456e-40	1.000000
PAH9+H	8.13443e-40	1.000000	8.13443e-40	1.000000
rad9	7.81088e-41	1.000000	7.81088e-41	1.000000
rad60anti	4.91345e-41	1.000000	4.91345e-41	1.000000
rad28	4.60279e-42	1.000000	4.60279e-42	1.000000
rad46	1.98995e-42	1.000000	1.98995e-42	1.000000
PhCH2CCH+H	3.20616e-43	1.000000	3.20616e-43	1.000000
Ph+Allene	4.69128e-44	1.000000	4.69128e-44	1.000000
rad3	5.47752e-45	1.000000	5.47752e-45	1.000000
rad4	2.03044e-45	1.000000	2.03044e-45	1.000000
PAH7+H	4.12176e-46	1.000000	4.12176e-46	1.000000
PAH3+H	6.83364e-48	1.000000	6.83364e-48	1.000000
rad59	3.33068e-48	1.000000	3.33068e-48	1.000000
rad26	5.73163e-50	1.000000	5.73163e-50	1.000000
rad31	4.20107e-54	1.000000	4.20107e-54	1.000000
rad2	3.05292e-55	1.000000	3.05292e-55	1.000000
rad1	5.40713e-56	1.000000	5.40713e-56	1.000000
rad39	1.82728e-56	1.000000	1.82728e-56	1.000000
rad50	1.40448e-56	1.000000	1.40448e-56	1.000000
rad10	9.50614e-59	1.000000	9.50614e-59	1.000000
rad14	1.09719e-59	1.000000	1.09719e-59	1.000000
PhCCH+CH3	1.03164e-59	1.000000	1.03164e-59	1.000000
rad12	7.48788e-62	1.000000	7.48788e-62	1.000000
rad37	1.70877e-63	1.000000	1.70877e-63	1.000000
rad52	4.68500e-65	1.000000	4.68500e-65	1.000000
Ph+MeAc	3.18621e-66	1.000000	3.18621e-66	1.000000
rad58	3.10879e-66	1.000000	3.10879e-66	1.000000
rad27	7.54022e-69	1.000000	7.54022e-69	1.000000
rad51	1.99017e-69	1.000000	1.99017e-69	1.000000
PhCCCH3+H	1.25140e-70	1.000000	1.25140e-70	1.000000
rad70	2.35626e-73	1.000000	2.35626e-73	1.000000
PAH10+CH3	5.38234e-74	1.000000	5.38234e-74	1.000000
rad19syn	3.87178e-74	1.000000	3.87178e-74	1.000000
rad54	5.61875e-75	1.000000	5.61875e-75	1.000000
rad47	1.45627e-75	1.000000	1.45627e-75	1.000000
rad65	1.56845e-76	1.000000	1.56845e-76	1.000000
rad5	4.36071e-78	1.000000	4.36071e-78	1.000000
rad34	2.77910e-78	1.000000	2.77910e-78	1.000000
PAH1+H	1.42648e-80	1.000000	1.42648e-80	1.000000
rad55	9.16557e-81	1.000000	9.16557e-81	1.000000
PhcycC3H3_A+H	2.28201e-82	1.000000	2.28201e-82	1.000000
rad62	1.56606e-87	1.000000	1.56606e-87	1.000000

rad43	2.80323e-92	1.000000	2.80323e-92	1.000000
rad42	3.46310e-96	1.000000	3.46310e-96	1.000000
rad41	4.27758e-99	1.000000	4.27758e-99	1.000000

100000000. Pa, 60.0000000 K

=====				
Rate constant	True (fraction)		Effective (fraction)	

Total	8.44107e-61 (1.00)		8.44107e-61 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

rad20	0.999979	0.999979	0.999979	0.999979
rad21	1.84988e-05	0.999997	1.84988e-05	0.999997
rad18	2.60361e-06	1.00000	2.60361e-06	1.00000
rad22	1.04004e-10	1.00000	1.04004e-10	1.00000
Benzyl+C2H2	1.23358e-11	1.00000	0.00000	1.00000
rad24	3.97310e-12	1.00000	3.97310e-12	1.00000
Indene+H	3.11510e-12	1.00000	3.11510e-12	1.00000
rad11	1.26790e-14	1.00000	1.26790e-14	1.00000
rad45	1.05728e-14	1.00000	1.05728e-14	1.00000
rad36	2.16089e-15	1.00000	2.16089e-15	1.00000
rad23	4.55620e-19	1.00000	4.55620e-19	1.00000
rad6	8.07044e-23	1.00000	8.07044e-23	1.00000
rad30	5.00128e-25	1.00000	5.00128e-25	1.00000
rad15	1.27618e-27	1.00000	1.27618e-27	1.00000
rad8	8.78002e-33	1.00000	8.78002e-33	1.00000
rad25	3.66523e-33	1.00000	3.66523e-33	1.00000
rad13	1.01268e-33	1.00000	1.01268e-33	1.00000
rad7	1.92785e-34	1.00000	1.92785e-34	1.00000
rad38	3.01419e-36	1.00000	3.01419e-36	1.00000
rad33	1.53770e-36	1.00000	1.53770e-36	1.00000
PhCHCCH2+H	6.95278e-38	1.00000	6.95278e-38	1.00000
rad35	5.77429e-39	1.00000	5.77429e-39	1.00000
rad60syn	4.34426e-39	1.00000	4.34426e-39	1.00000
PAH9+H	2.96699e-39	1.00000	2.96699e-39	1.00000
rad9	3.88407e-40	1.00000	3.88407e-40	1.00000
rad60anti	2.21400e-40	1.00000	2.21400e-40	1.00000
rad28	2.61191e-41	1.00000	2.61191e-41	1.00000
rad46	1.10014e-41	1.00000	1.10014e-41	1.00000
PhCH2CCH+H	1.57212e-42	1.00000	1.57212e-42	1.00000
Ph+Allene	2.64938e-43	1.00000	2.64938e-43	1.00000
rad3	2.56574e-44	1.00000	2.56574e-44	1.00000
rad4	1.11851e-44	1.00000	1.11851e-44	1.00000
PAH7+H	2.63233e-45	1.00000	2.63233e-45	1.00000
PAH3+H	3.81701e-47	1.00000	3.81701e-47	1.00000
rad59	1.85249e-47	1.00000	1.85249e-47	1.00000
rad26	4.10073e-49	1.00000	4.10073e-49	1.00000
rad31	2.83229e-53	1.00000	2.83229e-53	1.00000
rad2	2.62405e-54	1.00000	2.62405e-54	1.00000
rad1	5.17579e-55	1.00000	5.17579e-55	1.00000
rad50	1.33591e-55	1.00000	1.33591e-55	1.00000
rad39	1.33034e-55	1.00000	1.33034e-55	1.00000
rad10	8.39616e-58	1.00000	8.39616e-58	1.00000
PhCCH+CH3	9.89601e-59	1.00000	9.89601e-59	1.00000
rad14	9.54627e-59	1.00000	9.54627e-59	1.00000
rad12	6.65826e-61	1.00000	6.65826e-61	1.00000
rad37	1.53893e-62	1.00000	1.53893e-62	1.00000
rad52	7.00722e-64	1.00000	7.00722e-64	1.00000
Ph+MeAc	4.18211e-65	1.00000	4.18211e-65	1.00000
rad58	2.84179e-65	1.00000	2.84179e-65	1.00000
rad27	9.87456e-68	1.00000	9.87456e-68	1.00000
rad51	3.54125e-68	1.00000	3.54125e-68	1.00000
PhCCCH3+H	1.91241e-69	1.00000	1.91241e-69	1.00000
rad70	3.34025e-72	1.00000	3.34025e-72	1.00000
PAH10+CH3	6.84361e-73	1.00000	6.84361e-73	1.00000
rad19syn	5.89534e-73	1.00000	5.89534e-73	1.00000
rad54	9.39225e-74	1.00000	9.39225e-74	1.00000
rad47	2.80239e-74	1.00000	2.80239e-74	1.00000
rad65	2.00827e-75	1.00000	2.00827e-75	1.00000
rad5	5.83892e-77	1.00000	5.83892e-77	1.00000
rad34	4.54303e-77	1.00000	4.54303e-77	1.00000
PAH1+H	2.39109e-79	1.00000	2.39109e-79	1.00000
rad55	1.82901e-79	1.00000	1.82901e-79	1.00000
PhcycC3H3_A+H	4.53919e-81	1.00000	4.53919e-81	1.00000
rad62	4.16622e-86	1.00000	4.16622e-86	1.00000
rad43	6.02392e-91	1.00000	6.02392e-91	1.00000
rad42	9.10648e-95	1.00000	9.10648e-95	1.00000
rad41	1.00609e-97	1.00000	1.00609e-97	1.00000

100000000. Pa, 70.0000000 K

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

Total | 5.61998e-54 (1.00) 5.61998e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999974	0.999974	0.999974	0.999974
rad21	2.23832e-05	0.999996	2.23832e-05	0.999996
rad18	3.15942e-06	1.000000	3.15942e-06	1.000000
rad22	1.52792e-10	1.000000	1.52792e-10	1.000000
Benzyl+C2H2	2.06313e-11	1.000000	0.000000	1.000000
rad24	5.92123e-12	1.000000	5.92123e-12	1.000000
Indene+H	4.59247e-12	1.000000	4.59247e-12	1.000000
rad11	1.99808e-14	1.000000	1.99808e-14	1.000000
rad45	1.88925e-14	1.000000	1.88925e-14	1.000000
rad36	3.91002e-15	1.000000	3.91002e-15	1.000000
rad23	8.17339e-19	1.000000	8.17339e-19	1.000000
rad6	1.62479e-22	1.000000	1.62479e-22	1.000000
rad30	1.53288e-24	1.000000	1.53288e-24	1.000000
rad15	4.34095e-27	1.000000	4.34095e-27	1.000000
rad8	3.90244e-32	1.000000	3.90244e-32	1.000000
rad25	1.44202e-32	1.000000	1.44202e-32	1.000000
rad13	2.83769e-33	1.000000	2.83769e-33	1.000000
rad7	5.47975e-34	1.000000	5.47975e-34	1.000000
rad38	1.32334e-35	1.000000	1.32334e-35	1.000000
rad33	4.55809e-36	1.000000	4.55809e-36	1.000000
PhCHCCH2+H	3.41917e-37	1.000000	3.41917e-37	1.000000
rad60syn	2.17650e-38	1.000000	2.17650e-38	1.000000
rad35	1.79299e-38	1.000000	1.79299e-38	1.000000
PAH9+H	9.97119e-39	1.000000	9.97119e-39	1.000000
rad9	2.14712e-39	1.000000	2.14712e-39	1.000000
rad60anti	1.15508e-39	1.000000	1.15508e-39	1.000000
rad28	1.64306e-40	1.000000	1.64306e-40	1.000000
rad46	6.22767e-41	1.000000	6.22767e-41	1.000000
PhCH2CCH+H	9.58849e-42	1.000000	9.58849e-42	1.000000
Ph+Allene	1.66169e-42	1.000000	1.66169e-42	1.000000
rad3	1.04594e-43	1.000000	1.04594e-43	1.000000
rad4	5.15420e-44	1.000000	5.15420e-44	1.000000
PAH7+H	1.89248e-44	1.000000	1.89248e-44	1.000000
PAH3+H	2.53429e-46	1.000000	2.53429e-46	1.000000
rad59	1.22393e-46	1.000000	1.22393e-46	1.000000
rad26	3.34954e-48	1.000000	3.34954e-48	1.000000
rad31	1.65231e-52	1.000000	1.65231e-52	1.000000
rad2	1.91291e-53	1.000000	1.91291e-53	1.000000
rad1	4.05885e-54	1.000000	4.05885e-54	1.000000
rad50	1.41902e-54	1.000000	1.41902e-54	1.000000
rad39	1.04011e-54	1.000000	1.04011e-54	1.000000
rad10	8.14625e-57	1.000000	8.14625e-57	1.000000
PhCCH+CH3	8.81610e-58	1.000000	8.81610e-58	1.000000
rad14	7.59804e-58	1.000000	7.59804e-58	1.000000
rad12	6.51160e-60	1.000000	6.51160e-60	1.000000
rad37	1.52766e-61	1.000000	1.52766e-61	1.000000
rad52	1.18543e-62	1.000000	1.18543e-62	1.000000
Ph+MeAc	5.32864e-64	1.000000	5.32864e-64	1.000000
rad58	3.27449e-64	1.000000	3.27449e-64	1.000000
rad27	1.10313e-66	1.000000	1.10313e-66	1.000000
rad51	7.32008e-67	1.000000	7.32008e-67	1.000000
PhCCCH3+H	2.55072e-68	1.000000	2.55072e-68	1.000000
rad70	5.50448e-71	1.000000	5.50448e-71	1.000000
PAH10+CH3	9.99771e-72	1.000000	9.99771e-72	1.000000
rad19syn	9.53629e-72	1.000000	9.53629e-72	1.000000
rad54	1.68757e-72	1.000000	1.68757e-72	1.000000
rad47	6.67140e-73	1.000000	6.67140e-73	1.000000
rad65	2.98660e-74	1.000000	2.98660e-74	1.000000
rad34	8.77562e-76	1.000000	8.77562e-76	1.000000
rad5	8.48807e-76	1.000000	8.48807e-76	1.000000
PAH1+H	4.75673e-78	1.000000	4.75673e-78	1.000000
rad55	4.01525e-78	1.000000	4.01525e-78	1.000000
PhcycC3H3_A+H	9.93903e-80	1.000000	9.93903e-80	1.000000
rad62	1.11810e-84	1.000000	1.11810e-84	1.000000
rad43	1.46946e-89	1.000000	1.46946e-89	1.000000
rad42	2.78856e-93	1.000000	2.78856e-93	1.000000
rad41	2.74142e-96	1.000000	2.74142e-96	1.000000

100000000. Pa, 80.0000000 K

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

Total | 7.28864e-49 (1.00) 7.28864e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999970	0.999970	0.999970	0.999970
rad21	2.64266e-05	0.999996	2.64266e-05	0.999996
rad18	3.74194e-06	1.00000	3.74194e-06	1.00000
rad22	2.13897e-10	1.00000	2.13897e-10	1.00000
Benzyl+C2H2	3.36684e-11	1.00000	0.00000	1.00000
rad24	8.42429e-12	1.00000	8.42429e-12	1.00000
Indene+H	6.45503e-12	1.00000	6.45503e-12	1.00000
rad45	3.15191e-14	1.00000	3.15191e-14	1.00000
rad11	3.02387e-14	1.00000	3.02387e-14	1.00000
rad36	6.52559e-15	1.00000	6.52559e-15	1.00000
rad23	1.36659e-18	1.00000	1.36659e-18	1.00000
rad6	3.09856e-22	1.00000	3.09856e-22	1.00000
rad30	5.23379e-24	1.00000	5.23379e-24	1.00000
rad15	1.72976e-26	1.00000	1.72976e-26	1.00000
rad8	2.25109e-31	1.00000	2.25109e-31	1.00000
rad25	6.29180e-32	1.00000	6.29180e-32	1.00000
rad13	7.33561e-33	1.00000	7.33561e-33	1.00000
rad7	1.43966e-33	1.00000	1.43966e-33	1.00000
rad38	5.57023e-35	1.00000	5.57023e-35	1.00000
rad33	1.25647e-35	1.00000	1.25647e-35	1.00000
PhCHCCH2+H	1.97893e-36	1.00000	1.97893e-36	1.00000
rad60syn	1.36974e-37	1.00000	1.36974e-37	1.00000
rad35	5.27133e-38	1.00000	5.27133e-38	1.00000
PAH9+H	3.22396e-38	1.00000	3.22396e-38	1.00000
rad9	1.44702e-38	1.00000	1.44702e-38	1.00000
rad60anti	7.59924e-39	1.00000	7.59924e-39	1.00000
rad28	1.25095e-39	1.00000	1.25095e-39	1.00000
rad46	3.91265e-40	1.00000	3.91265e-40	1.00000
PhCH2CCH+H	7.76210e-41	1.00000	7.76210e-41	1.00000
Ph+Allene	1.26856e-41	1.00000	1.26856e-41	1.00000
rad3	4.02612e-43	1.00000	4.02612e-43	1.00000
rad4	2.18501e-43	1.00000	2.18501e-43	1.00000
PAH7+H	1.67130e-43	1.00000	1.67130e-43	1.00000
PAH3+H	2.16662e-45	1.00000	2.16662e-45	1.00000
rad59	1.04064e-45	1.00000	1.04064e-45	1.00000
rad26	3.40245e-47	1.00000	3.40245e-47	1.00000
rad31	9.26857e-52	1.00000	9.26857e-52	1.00000
rad2	1.33666e-52	1.00000	1.33666e-52	1.00000
rad1	2.98551e-53	1.00000	2.98551e-53	1.00000
rad50	1.84916e-53	1.00000	1.84916e-53	1.00000
rad39	9.66464e-54	1.00000	9.66464e-54	1.00000
rad10	9.58005e-56	1.00000	9.58005e-56	1.00000
PhCCH+CH3	8.33498e-57	1.00000	8.33498e-57	1.00000
rad14	6.27703e-57	1.00000	6.27703e-57	1.00000
rad12	7.72812e-59	1.00000	7.72812e-59	1.00000
rad37	1.84424e-60	1.00000	1.84424e-60	1.00000
rad52	2.51326e-61	1.00000	2.51326e-61	1.00000
Ph+MeAc	7.52457e-63	1.00000	7.52457e-63	1.00000
rad58	5.07016e-63	1.00000	5.07016e-63	1.00000
rad51	1.94392e-65	1.00000	1.94392e-65	1.00000
rad27	1.22861e-65	1.00000	1.22861e-65	1.00000
PhCCCH3+H	3.49388e-67	1.00000	3.49388e-67	1.00000
rad70	1.15004e-69	1.00000	1.15004e-69	1.00000
rad19syn	1.85202e-70	1.00000	1.85202e-70	1.00000
PAH10+CH3	1.83519e-70	1.00000	1.83519e-70	1.00000
rad54	3.67455e-71	1.00000	3.67455e-71	1.00000
rad47	2.14368e-71	1.00000	2.14368e-71	1.00000
rad65	5.67205e-73	1.00000	5.67205e-73	1.00000
rad34	2.17459e-74	1.00000	2.17459e-74	1.00000
rad5	1.49082e-74	1.00000	1.49082e-74	1.00000
PAH1+H	1.21766e-76	1.00000	1.21766e-76	1.00000
rad55	1.08877e-76	1.00000	1.08877e-76	1.00000
PhcycC3H3_A+H	2.69122e-78	1.00000	2.69122e-78	1.00000
rad62	3.49175e-83	1.00000	3.49175e-83	1.00000
rad43	4.45953e-88	1.00000	4.45953e-88	1.00000
rad42	1.08964e-91	1.00000	1.08964e-91	1.00000
rad41	9.46216e-95	1.00000	9.46216e-95	1.00000

100000000. Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.85154e-45 (1.00)	6.85154e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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rad20	0.999965	0.999965	0.999965	0.999965
rad21	3.06740e-05	0.999996	3.06740e-05	0.999996
rad18	4.35827e-06	1.00000	4.35827e-06	1.00000
rad22	2.89702e-10	1.00000	2.89702e-10	1.00000
Benzyl+C2H2	5.39888e-11	1.00000	0.00000	1.00000
rad24	1.16177e-11	1.00000	1.16177e-11	1.00000
Indene+H	8.78315e-12	1.00000	8.78315e-12	1.00000
rad45	5.01919e-14	1.00000	5.01919e-14	1.00000
rad11	4.46250e-14	1.00000	4.46250e-14	1.00000
rad36	1.03274e-14	1.00000	1.03274e-14	1.00000
rad23	2.17953e-18	1.00000	2.17953e-18	1.00000
rad6	5.73411e-22	1.00000	5.73411e-22	1.00000
rad30	1.95518e-23	1.00000	1.95518e-23	1.00000
rad15	8.35495e-26	1.00000	8.35495e-26	1.00000
rad8	1.93487e-30	1.00000	1.93487e-30	1.00000
rad25	3.13158e-31	1.00000	3.13158e-31	1.00000
rad13	1.82127e-32	1.00000	1.82127e-32	1.00000
rad7	3.64120e-33	1.00000	3.64120e-33	1.00000
rad38	2.30089e-34	1.00000	2.30089e-34	1.00000
rad33	3.35804e-35	1.00000	3.35804e-35	1.00000
PhCHCCH2+H	1.48360e-35	1.00000	1.48360e-35	1.00000
rad60syn	1.23882e-36	1.00000	1.23882e-36	1.00000
rad35	1.51027e-37	1.00000	1.51027e-37	1.00000
rad9	1.34733e-37	1.00000	1.34733e-37	1.00000
PAH9+H	1.02483e-37	1.00000	1.02483e-37	1.00000
rad60anti	7.22424e-38	1.00000	7.22424e-38	1.00000
rad28	1.29566e-38	1.00000	1.29566e-38	1.00000
rad46	2.89852e-39	1.00000	2.89852e-39	1.00000
PhCH2CCH+H	9.51451e-40	1.00000	9.51451e-40	1.00000
Ph+Allene	1.33873e-40	1.00000	1.33873e-40	1.00000
PAH7+H	2.05440e-42	1.00000	2.05440e-42	1.00000
rad3	1.54171e-42	1.00000	1.54171e-42	1.00000
rad4	9.04895e-43	1.00000	9.04895e-43	1.00000
PAH3+H	2.73855e-44	1.00000	2.73855e-44	1.00000
rad59	1.30739e-44	1.00000	1.30739e-44	1.00000
rad26	4.89019e-46	1.00000	4.89019e-46	1.00000
rad31	5.35613e-51	1.00000	5.35613e-51	1.00000
rad2	9.71658e-52	1.00000	9.71658e-52	1.00000
rad50	3.34290e-52	1.00000	3.34290e-52	1.00000
rad1	2.25247e-52	1.00000	2.25247e-52	1.00000
rad39	1.21464e-52	1.00000	1.21464e-52	1.00000
rad10	1.56606e-54	1.00000	1.56606e-54	1.00000
PhCCH+CH3	9.37358e-56	1.00000	9.37358e-56	1.00000
rad14	5.92143e-56	1.00000	5.92143e-56	1.00000
rad12	1.27689e-57	1.00000	1.27689e-57	1.00000
rad37	3.10774e-59	1.00000	3.10774e-59	1.00000
rad52	7.62577e-60	1.00000	7.62577e-60	1.00000
Ph+MeAc	1.36423e-61	1.00000	1.36423e-61	1.00000
rad58	1.20102e-61	1.00000	1.20102e-61	1.00000
rad51	7.60268e-64	1.00000	7.60268e-64	1.00000
rad27	1.54259e-64	1.00000	1.54259e-64	1.00000
PhCCCH3+H	5.67695e-66	1.00000	5.67695e-66	1.00000
rad70	3.50426e-68	1.00000	3.50426e-68	1.00000
rad19syn	5.07102e-69	1.00000	5.07102e-69	1.00000
PAH10+CH3	4.86399e-69	1.00000	4.86399e-69	1.00000
rad54	1.13887e-69	1.00000	1.13887e-69	1.00000
rad47	1.06779e-69	1.00000	1.06779e-69	1.00000
rad65	1.59565e-71	1.00000	1.59565e-71	1.00000
rad34	7.93402e-73	1.00000	7.93402e-73	1.00000
rad5	3.66572e-73	1.00000	3.66572e-73	1.00000
PAH1+H	4.59383e-75	1.00000	4.59383e-75	1.00000
rad55	4.28632e-75	1.00000	4.28632e-75	1.00000
PhcycC3H3_A+H	1.06004e-76	1.00000	1.06004e-76	1.00000
rad62	1.51143e-81	1.00000	1.51143e-81	1.00000
rad43	1.94362e-86	1.00000	1.94362e-86	1.00000
rad42	6.31121e-90	1.00000	6.31121e-90	1.00000
rad41	4.76364e-93	1.00000	4.76364e-93	1.00000

100000000. Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02671e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999960	0.999960	0.999960	0.999960
rad21	3.51748e-05	0.999995	3.51748e-05	0.999995
rad18	5.01629e-06	1.00000	5.01629e-06	1.00000
rad22	3.83390e-10	1.00000	3.83390e-10	1.00000

Benzyl+C2H2	8.54966e-11	1.00000	0.00000	1.00000
rad24	1.56866e-11	1.00000	1.56866e-11	1.00000
Indene+H	1.16851e-11	1.00000	1.16851e-11	1.00000
rad45	7.74108e-14	1.00000	7.74108e-14	1.00000
rad11	6.48728e-14	1.00000	6.48728e-14	1.00000
rad36	1.57744e-14	1.00000	1.57744e-14	1.00000
rad23	3.36667e-18	1.00000	3.36667e-18	1.00000
rad6	1.04657e-21	1.00000	1.04657e-21	1.00000
rad30	7.42785e-23	1.00000	7.42785e-23	1.00000
rad15	4.56762e-25	1.00000	4.56762e-25	1.00000
rad8	2.97828e-29	1.00000	2.97828e-29	1.00000
rad25	1.70595e-30	1.00000	1.70595e-30	1.00000
rad13	4.46224e-32	1.00000	4.46224e-32	1.00000
rad7	9.11204e-33	1.00000	9.11204e-33	1.00000
rad38	9.37201e-34	1.00000	9.37201e-34	1.00000
PhCHCCH2+H	1.49589e-34	1.00000	1.49589e-34	1.00000
rad33	8.94799e-35	1.00000	8.94799e-35	1.00000
rad60syn	1.87487e-35	1.00000	1.87487e-35	1.00000
rad9	1.96807e-36	1.00000	1.96807e-36	1.00000
rad60anti	1.16444e-36	1.00000	1.16444e-36	1.00000
rad35	4.29880e-37	1.00000	4.29880e-37	1.00000
PAH9+H	3.24064e-37	1.00000	3.24064e-37	1.00000
rad28	2.03438e-37	1.00000	2.03438e-37	1.00000
rad46	2.52987e-38	1.00000	2.52987e-38	1.00000
PhCH2CCH+H	2.11336e-38	1.00000	2.11336e-38	1.00000
Ph+Allene	2.22575e-39	1.00000	2.22575e-39	1.00000
PAH7+H	4.01685e-41	1.00000	4.01685e-41	1.00000
rad3	6.06974e-42	1.00000	6.06974e-42	1.00000
rad4	3.80095e-42	1.00000	3.80095e-42	1.00000
PAH3+H	6.11474e-43	1.00000	6.11474e-43	1.00000
rad59	2.89934e-43	1.00000	2.89934e-43	1.00000
rad26	1.15280e-44	1.00000	1.15280e-44	1.00000
rad31	3.30864e-50	1.00000	3.30864e-50	1.00000
rad50	9.43873e-51	1.00000	9.43873e-51	1.00000
rad2	7.67890e-51	1.00000	7.67890e-51	1.00000
rad39	2.34586e-51	1.00000	2.34586e-51	1.00000
rad1	1.82960e-51	1.00000	1.82960e-51	1.00000
rad10	4.14992e-53	1.00000	4.14992e-53	1.00000
PhCCH+CH3	1.33062e-54	1.00000	1.33062e-54	1.00000
rad14	6.62820e-55	1.00000	6.62820e-55	1.00000
rad12	3.42835e-56	1.00000	3.42835e-56	1.00000
rad37	8.54569e-58	1.00000	8.54569e-58	1.00000
rad52	3.77703e-58	1.00000	3.77703e-58	1.00000
rad58	5.19684e-60	1.00000	5.19684e-60	1.00000
Ph+MeAc	3.61611e-60	1.00000	3.61611e-60	1.00000
rad51	5.04447e-62	1.00000	5.04447e-62	1.00000
rad27	2.34914e-63	1.00000	2.34914e-63	1.00000
PhCCCH3+H	1.20758e-64	1.00000	1.20758e-64	1.00000
rad70	1.86098e-66	1.00000	1.86098e-66	1.00000
rad19syn	2.35508e-67	1.00000	2.35508e-67	1.00000
PAH10+CH3	2.20905e-67	1.00000	2.20905e-67	1.00000
rad47	9.63943e-68	1.00000	9.63943e-68	1.00000
rad54	6.06616e-68	1.00000	6.06616e-68	1.00000
rad65	8.00022e-70	1.00000	8.00022e-70	1.00000
rad34	5.09294e-71	1.00000	5.09294e-71	1.00000
rad5	1.49900e-71	1.00000	1.49900e-71	1.00000
PAH1+H	3.03860e-73	1.00000	3.03860e-73	1.00000
rad55	2.97978e-73	1.00000	2.97978e-73	1.00000
PhcycC3H3_A+H	7.39748e-75	1.00000	7.39748e-75	1.00000
rad62	1.10590e-79	1.00000	1.10590e-79	1.00000
rad43	1.45536e-84	1.00000	1.45536e-84	1.00000
rad42	6.57879e-88	1.00000	6.57879e-88	1.00000
rad41	4.18079e-91	1.00000	4.18079e-91	1.00000

100000000. Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04932e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999954	0.999954	0.999954	0.999954
rad21	3.99840e-05	0.999994	3.99840e-05	0.999994
rad18	5.72490e-06	1.000000	5.72490e-06	1.000000
rad22	4.99168e-10	1.000000	4.99168e-10	1.000000
Benzyl+C2H2	1.34180e-10	1.000000	0.000000	1.000000
rad24	2.08830e-11	1.000000	2.08830e-11	1.000000
Indene+H	1.53062e-11	1.000000	1.53062e-11	1.000000
rad45	1.16823e-13	1.000000	1.16823e-13	1.000000

rad11	9.35581e-14	1.000000	9.35581e-14	1.000000
rad36	2.35352e-14	1.000000	2.35352e-14	1.000000
rad23	5.09109e-18	1.000000	5.09109e-18	1.000000
rad6	1.90535e-21	1.000000	1.90535e-21	1.000000
rad30	2.68296e-22	1.000000	2.68296e-22	1.000000
rad15	2.48283e-24	1.000000	2.48283e-24	1.000000
rad8	8.95044e-28	1.000000	8.95044e-28	1.000000
rad25	9.36819e-30	1.000000	9.36819e-30	1.000000
rad13	1.09890e-31	1.000000	1.09890e-31	1.000000
rad7	2.29818e-32	1.000000	2.29818e-32	1.000000
rad38	3.75528e-33	1.000000	3.75528e-33	1.000000
PhCHCCH2+H	1.80997e-33	1.000000	1.80997e-33	1.000000
rad60syn	4.77779e-34	1.000000	4.77779e-34	1.000000
rad33	2.42082e-34	1.000000	2.42082e-34	1.000000
rad9	4.78044e-35	1.000000	4.78044e-35	1.000000
rad60anti	3.35015e-35	1.000000	3.35015e-35	1.000000
rad28	4.72536e-36	1.000000	4.72536e-36	1.000000
rad35	1.23392e-36	1.000000	1.23392e-36	1.000000
PAH9+H	1.02655e-36	1.000000	1.02655e-36	1.000000
PhCH2CCH+H	9.60142e-37	1.000000	9.60142e-37	1.000000
rad46	2.39171e-37	1.000000	2.39171e-37	1.000000
Ph+Allene	5.87471e-38	1.000000	5.87471e-38	1.000000
PAH7+H	1.29394e-39	1.000000	1.29394e-39	1.000000
PAH3+H	2.69229e-41	1.000000	2.69229e-41	1.000000
rad3	2.49885e-41	1.000000	2.49885e-41	1.000000
rad4	1.65103e-41	1.000000	1.65103e-41	1.000000
rad59	1.26630e-41	1.000000	1.26630e-41	1.000000
rad26	4.75615e-43	1.000000	4.75615e-43	1.000000
rad50	4.24845e-49	1.000000	4.24845e-49	1.000000
rad31	2.19612e-49	1.000000	2.19612e-49	1.000000
rad39	7.08433e-50	1.000000	7.08433e-50	1.000000
rad2	6.62758e-50	1.000000	6.62758e-50	1.000000
rad1	1.61105e-50	1.000000	1.61105e-50	1.000000
rad10	1.91302e-51	1.000000	1.91302e-51	1.000000
PhCCH+CH3	2.28647e-53	1.000000	2.28647e-53	1.000000
rad14	8.49180e-54	1.000000	8.49180e-54	1.000000
rad12	1.60833e-54	1.000000	1.60833e-54	1.000000
rad37	4.13637e-56	1.000000	4.13637e-56	1.000000
rad52	3.15573e-56	1.000000	3.15573e-56	1.000000
rad58	4.62634e-58	1.000000	4.62634e-58	1.000000
Ph+MeAc	1.41049e-58	1.000000	1.41049e-58	1.000000
rad51	5.92819e-60	1.000000	5.92819e-60	1.000000
rad27	4.31440e-62	1.000000	4.31440e-62	1.000000
PhCCCH3+H	3.32758e-63	1.000000	3.32758e-63	1.000000
rad70	1.93265e-64	1.000000	1.93265e-64	1.000000
rad19syn	2.06148e-65	1.000000	2.06148e-65	1.000000
PAH10+CH3	1.90698e-65	1.000000	1.90698e-65	1.000000
rad47	1.67193e-65	1.000000	1.67193e-65	1.000000
rad54	6.21512e-66	1.000000	6.21512e-66	1.000000
rad65	7.98818e-68	1.000000	7.98818e-68	1.000000
rad34	6.46116e-69	1.000000	6.46116e-69	1.000000
rad5	1.12654e-69	1.000000	1.12654e-69	1.000000
rad55	4.15567e-71	1.000000	4.15567e-71	1.000000
PAH1+H	3.93204e-71	1.000000	3.93204e-71	1.000000
PhcycC3H3_A+H	1.04148e-72	1.000000	1.04148e-72	1.000000
rad62	1.54403e-77	1.000000	1.54403e-77	1.000000
rad43	2.09385e-82	1.000000	2.09385e-82	1.000000
rad42	1.41472e-85	1.000000	1.41472e-85	1.000000
rad41	7.16806e-89	1.000000	7.16806e-89	1.000000

100000000. Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87106e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999948	0.999948	0.999948	0.999948
rad21	4.51635e-05	0.999993	4.51635e-05	0.999993
rad18	6.49423e-06	1.000000	6.49423e-06	1.000000
rad22	6.42585e-10	1.000000	6.42585e-10	1.000000
Benzyl+C2H2	2.09193e-10	1.000000	0.000000	1.000000
rad24	2.75506e-11	1.000000	2.75506e-11	1.000000
Indene+H	1.98403e-11	1.000000	1.98403e-11	1.000000
rad45	1.73815e-13	1.000000	1.73815e-13	1.000000
rad11	1.34529e-13	1.000000	1.34529e-13	1.000000
rad36	3.45924e-14	1.000000	3.45924e-14	1.000000
rad23	7.59670e-18	1.000000	7.59670e-18	1.000000
rad6	3.48677e-21	1.000000	3.48677e-21	1.000000

rad30	8.93476e-22	1.000000	8.93476e-22	1.000000
rad15	1.22892e-23	1.000000	1.22892e-23	1.000000
rad8	2.89193e-26	1.000000	2.89193e-26	1.000000
rad25	4.86845e-29	1.000000	4.86845e-29	1.000000
rad13	2.75167e-31	1.000000	2.75167e-31	1.000000
rad7	5.90817e-32	1.000000	5.90817e-32	1.000000
PhCHCCH2+H	2.18159e-32	1.000000	2.18159e-32	1.000000
rad38	1.47545e-32	1.000000	1.47545e-32	1.000000
rad60syn	1.37010e-32	1.000000	1.37010e-32	1.000000
rad9	1.74813e-33	1.000000	1.74813e-33	1.000000
rad60anti	1.15981e-33	1.000000	1.15981e-33	1.000000
rad33	6.71701e-34	1.000000	6.71701e-34	1.000000
rad28	1.24314e-34	1.000000	1.24314e-34	1.000000
PhCH2CCH+H	6.85796e-35	1.000000	6.85796e-35	1.000000
rad35	3.79051e-36	1.000000	3.79051e-36	1.000000
PAH9+H	3.27071e-36	1.000000	3.27071e-36	1.000000
rad46	2.19940e-36	1.000000	2.19940e-36	1.000000
Ph+Allene	1.84509e-36	1.000000	1.84509e-36	1.000000
PAH7+H	5.42608e-38	1.000000	5.42608e-38	1.000000
PAH3+H	1.80869e-39	1.000000	1.80869e-39	1.000000
rad59	8.42621e-40	1.000000	8.42621e-40	1.000000
rad3	1.07948e-40	1.000000	1.07948e-40	1.000000
rad4	7.45135e-41	1.000000	7.45135e-41	1.000000
rad26	2.73764e-41	1.000000	2.73764e-41	1.000000
rad50	2.47533e-47	1.000000	2.47533e-47	1.000000
rad39	2.64849e-48	1.000000	2.64849e-48	1.000000
rad31	1.53799e-48	1.000000	1.53799e-48	1.000000
rad2	6.09934e-49	1.000000	6.09934e-49	1.000000
rad1	1.50343e-49	1.000000	1.50343e-49	1.000000
rad10	1.22735e-49	1.000000	1.22735e-49	1.000000
PhCCH+CH3	4.27035e-52	1.000000	4.27035e-52	1.000000
rad14	1.15752e-52	1.000000	1.15752e-52	1.000000
rad12	1.05574e-52	1.000000	1.05574e-52	1.000000
rad52	3.55925e-54	1.000000	3.55925e-54	1.000000
rad37	2.82534e-54	1.000000	2.82534e-54	1.000000
rad58	6.51409e-56	1.000000	6.51409e-56	1.000000
Ph+MeAc	6.60779e-57	1.000000	6.60779e-57	1.000000
rad51	9.73798e-58	1.000000	9.73798e-58	1.000000
rad27	8.91486e-61	1.000000	8.91486e-61	1.000000
PhCCCH3+H	1.05490e-61	1.000000	1.05490e-61	1.000000
rad70	3.06918e-62	1.000000	3.06918e-62	1.000000
rad47	4.29912e-63	1.000000	4.29912e-63	1.000000
rad19syn	2.68907e-63	1.000000	2.68907e-63	1.000000
PAH10+CH3	2.46840e-63	1.000000	2.46840e-63	1.000000
rad54	9.68252e-64	1.000000	9.68252e-64	1.000000
rad65	1.23845e-65	1.000000	1.23845e-65	1.000000
rad34	1.26156e-66	1.000000	1.26156e-66	1.000000
rad5	1.24125e-67	1.000000	1.24125e-67	1.000000
rad55	9.23998e-69	1.000000	9.23998e-69	1.000000
PAH1+H	7.77036e-69	1.000000	7.77036e-69	1.000000
PhcycC3H3_A+H	2.35561e-70	1.000000	2.35561e-70	1.000000
rad62	3.27287e-75	1.000000	3.27287e-75	1.000000
rad43	4.55051e-80	1.000000	4.55051e-80	1.000000
rad42	5.04540e-83	1.000000	5.04540e-83	1.000000
rad41	1.87167e-86	1.000000	1.87167e-86	1.000000

100000000. Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.94360e-35 (1.00)	3.94360e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999942	0.999942	0.999942	0.999942
rad21	5.07832e-05	0.999993	5.07832e-05	0.999993
rad18	7.33589e-06	1.00000	7.33589e-06	1.00000
rad22	8.20932e-10	1.00000	8.20932e-10	1.00000
Benzyl+C2H2	3.24450e-10	1.00000	0.00000	1.00000
rad24	3.61578e-11	1.00000	3.61578e-11	1.00000
Indene+H	2.55471e-11	1.00000	2.55471e-11	1.00000
rad45	2.56406e-13	1.00000	2.56406e-13	1.00000
rad11	1.93558e-13	1.00000	1.93558e-13	1.00000
rad36	5.04027e-14	1.00000	5.04027e-14	1.00000
rad23	1.12524e-17	1.00000	1.12524e-17	1.00000
rad6	6.44488e-21	1.00000	6.44488e-21	1.00000
rad30	2.73267e-21	1.00000	2.73267e-21	1.00000
rad15	5.37857e-23	1.00000	5.37857e-23	1.00000
rad8	7.17037e-25	1.00000	7.17037e-25	1.00000
rad25	2.33020e-28	1.00000	2.33020e-28	1.00000

rad13	7.04670e-31	1.00000	7.04670e-31	1.00000
rad60syn	3.26217e-31	1.00000	3.26217e-31	1.00000
PhCHCCH2+H	2.32756e-31	1.00000	2.32756e-31	1.00000
rad7	1.55640e-31	1.00000	1.55640e-31	1.00000
rad9	7.21050e-32	1.00000	7.21050e-32	1.00000
rad38	5.67270e-32	1.00000	5.67270e-32	1.00000
rad60anti	3.34537e-32	1.00000	3.34537e-32	1.00000
PhCH2CCH+H	6.24693e-33	1.00000	6.24693e-33	1.00000
rad28	2.89961e-33	1.00000	2.89961e-33	1.00000
rad33	1.91796e-33	1.00000	1.91796e-33	1.00000
Ph+Allene	5.18947e-35	1.00000	5.18947e-35	1.00000
rad35	2.44721e-35	1.00000	2.44721e-35	1.00000
rad46	1.83712e-35	1.00000	1.83712e-35	1.00000
PAH9+H	1.04971e-35	1.00000	1.04971e-35	1.00000
PAH7+H	2.17022e-36	1.00000	2.17022e-36	1.00000
PAH3+H	1.47561e-37	1.00000	1.47561e-37	1.00000
rad59	6.79043e-38	1.00000	6.79043e-38	1.00000
rad26	1.73146e-39	1.00000	1.73146e-39	1.00000
rad3	4.86377e-40	1.00000	4.86377e-40	1.00000
rad4	3.47603e-40	1.00000	3.47603e-40	1.00000
rad50	1.50473e-45	1.00000	1.50473e-45	1.00000
rad39	9.58244e-47	1.00000	9.58244e-47	1.00000
rad31	1.10541e-47	1.00000	1.10541e-47	1.00000
rad10	8.69014e-48	1.00000	8.69014e-48	1.00000
rad2	5.78788e-48	1.00000	5.78788e-48	1.00000
rad1	1.43926e-48	1.00000	1.43926e-48	1.00000
PhCCH+CH3	7.91647e-51	1.00000	7.91647e-51	1.00000
rad12	7.71730e-51	1.00000	7.71730e-51	1.00000
rad14	1.57863e-51	1.00000	1.57863e-51	1.00000
rad52	4.38385e-52	1.00000	4.38385e-52	1.00000
rad37	2.17847e-52	1.00000	2.17847e-52	1.00000
rad58	1.17509e-53	1.00000	1.17509e-53	1.00000
Ph+MeAc	3.04929e-55	1.00000	3.04929e-55	1.00000
rad51	1.79971e-55	1.00000	1.79971e-55	1.00000
rad27	1.91978e-59	1.00000	1.91978e-59	1.00000
rad70	6.05938e-60	1.00000	6.05938e-60	1.00000
PhCCCH3+H	3.42722e-60	1.00000	3.42722e-60	1.00000
rad47	1.30545e-60	1.00000	1.30545e-60	1.00000
rad19syn	4.16523e-61	1.00000	4.16523e-61	1.00000
PAH10+CH3	3.89239e-61	1.00000	3.89239e-61	1.00000
rad54	1.83332e-61	1.00000	1.83332e-61	1.00000
rad65	2.39105e-63	1.00000	2.39105e-63	1.00000
rad34	3.08060e-64	1.00000	3.08060e-64	1.00000
rad5	1.63167e-65	1.00000	1.63167e-65	1.00000
rad55	2.64731e-66	1.00000	2.64731e-66	1.00000
PAH1+H	1.90325e-66	1.00000	1.90325e-66	1.00000
PhcycC3H3_A+H	6.93631e-68	1.00000	6.93631e-68	1.00000
rad62	8.48785e-73	1.00000	8.48785e-73	1.00000
rad43	1.21139e-77	1.00000	1.21139e-77	1.00000
rad42	2.46411e-80	1.00000	2.46411e-80	1.00000
rad41	6.04778e-84	1.00000	6.04778e-84	1.00000

100000000. Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.44756e-33 (1.00)	1.44756e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999935	0.999935	0.999935	0.999935
rad21	5.69228e-05	0.999992	5.69228e-05	0.999992
rad18	8.26315e-06	1.00000	8.26315e-06	1.00000
rad22	1.04378e-09	1.00000	1.04378e-09	1.00000
Benzyl+C2H2	5.00981e-10	1.00000	0.00000	1.00000
rad24	4.73437e-11	1.00000	4.73437e-11	1.00000
Indene+H	3.27731e-11	1.00000	3.27731e-11	1.00000
rad45	3.76630e-13	1.00000	3.76630e-13	1.00000
rad11	2.79325e-13	1.00000	2.79325e-13	1.00000
rad36	7.31372e-14	1.00000	7.31372e-14	1.00000
rad23	1.66216e-17	1.00000	1.66216e-17	1.00000
rad6	1.20619e-20	1.00000	1.20619e-20	1.00000
rad30	7.73718e-21	1.00000	7.73718e-21	1.00000
rad15	2.08581e-22	1.00000	2.08581e-22	1.00000
rad8	1.25982e-23	1.00000	1.25982e-23	1.00000
rad25	1.02336e-27	1.00000	1.02336e-27	1.00000
rad60syn	5.80764e-30	1.00000	5.80764e-30	1.00000
rad9	2.27592e-30	1.00000	2.27592e-30	1.00000
PhCHCCH2+H	2.11255e-30	1.00000	2.11255e-30	1.00000
rad13	1.84785e-30	1.00000	1.84785e-30	1.00000

rad60anti	7.07654e-31	1.00000	7.07654e-31	1.00000
PhCH2CCH+H	5.38241e-31	1.00000	5.38241e-31	1.00000
rad7	4.20376e-31	1.00000	4.20376e-31	1.00000
rad38	2.13224e-31	1.00000	2.13224e-31	1.00000
rad28	5.35542e-32	1.00000	5.35542e-32	1.00000
rad33	5.62696e-33	1.00000	5.62696e-33	1.00000
Ph+Allene	1.14225e-33	1.00000	1.14225e-33	1.00000
rad35	5.97210e-34	1.00000	5.97210e-34	1.00000
rad46	1.35966e-34	1.00000	1.35966e-34	1.00000
PAH7+H	6.59477e-35	1.00000	6.59477e-35	1.00000
PAH9+H	3.39178e-35	1.00000	3.39178e-35	1.00000
PAH3+H	1.08356e-35	1.00000	1.08356e-35	1.00000
rad59	4.90746e-36	1.00000	4.90746e-36	1.00000
rad26	9.01875e-38	1.00000	9.01875e-38	1.00000
rad3	2.26062e-39	1.00000	2.26062e-39	1.00000
rad4	1.65929e-39	1.00000	1.65929e-39	1.00000
rad50	7.65519e-44	1.00000	7.65519e-44	1.00000
rad39	2.87209e-45	1.00000	2.87209e-45	1.00000
rad10	5.14199e-46	1.00000	5.14199e-46	1.00000
rad31	7.94120e-47	1.00000	7.94120e-47	1.00000
rad2	5.49508e-47	1.00000	5.49508e-47	1.00000
rad1	1.37272e-47	1.00000	1.37272e-47	1.00000
rad12	4.78350e-49	1.00000	4.78350e-49	1.00000
PhCCH+CH3	1.38178e-49	1.00000	1.38178e-49	1.00000
rad52	4.68922e-50	1.00000	4.68922e-50	1.00000
rad14	2.07394e-50	1.00000	2.07394e-50	1.00000
rad37	1.45263e-50	1.00000	1.45263e-50	1.00000
rad58	2.01398e-51	1.00000	2.01398e-51	1.00000
rad51	2.93392e-53	1.00000	2.93392e-53	1.00000
Ph+MeAc	1.21045e-53	1.00000	1.21045e-53	1.00000
rad70	1.11596e-57	1.00000	1.11596e-57	1.00000
rad27	4.06083e-58	1.00000	4.06083e-58	1.00000
rad47	3.59504e-58	1.00000	3.59504e-58	1.00000
PhCCCH3+H	1.05187e-58	1.00000	1.05187e-58	1.00000
rad19syn	5.77362e-59	1.00000	5.77362e-59	1.00000
PAH10+CH3	5.66779e-59	1.00000	5.66779e-59	1.00000
rad54	3.15900e-59	1.00000	3.15900e-59	1.00000
rad65	4.31982e-61	1.00000	4.31982e-61	1.00000
rad34	7.03872e-62	1.00000	7.03872e-62	1.00000
rad5	1.95908e-63	1.00000	1.95908e-63	1.00000
rad55	7.25867e-64	1.00000	7.25867e-64	1.00000
PAH1+H	4.34003e-64	1.00000	4.34003e-64	1.00000
PhcycC3H3_A+H	1.97571e-65	1.00000	1.97571e-65	1.00000
rad62	2.02926e-70	1.00000	2.02926e-70	1.00000
rad43	2.98057e-75	1.00000	2.98057e-75	1.00000
rad42	1.22756e-77	1.00000	1.22756e-77	1.00000
rad41	1.81482e-81	1.00000	1.81482e-81	1.00000

100000000. Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27736e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999927	0.999927	0.999927	0.999927
rad21	6.36722e-05	0.999991	6.36722e-05	0.999991
rad18	9.29122e-06	1.000000	9.29122e-06	1.000000
rad22	1.32368e-09	1.000000	1.32368e-09	1.000000
Benzyl+C2H2	7.70343e-10	1.000000	0.000000	1.000000
rad24	6.19809e-11	1.000000	6.19809e-11	1.000000
Indene+H	4.19821e-11	1.000000	4.19821e-11	1.000000
rad45	5.52626e-13	1.000000	5.52626e-13	1.000000
rad11	4.04904e-13	1.000000	4.04904e-13	1.000000
rad36	1.06049e-13	1.000000	1.06049e-13	1.000000
rad23	2.45715e-17	1.000000	2.45715e-17	1.000000
rad6	2.28705e-20	1.000000	2.28705e-20	1.000000
rad30	2.05079e-20	1.000000	2.05079e-20	1.000000
rad15	7.26297e-22	1.000000	7.26297e-22	1.000000
rad8	1.60446e-22	1.000000	1.60446e-22	1.000000
rad25	4.14982e-27	1.000000	4.14982e-27	1.000000
rad60syn	7.73783e-29	1.000000	7.73783e-29	1.000000
rad9	5.18231e-29	1.000000	5.18231e-29	1.000000
PhCH2CCH+H	4.90044e-29	1.000000	4.90044e-29	1.000000
PhCHCCH2+H	1.63145e-29	1.000000	1.63145e-29	1.000000
rad60anti	1.09804e-29	1.000000	1.09804e-29	1.000000
rad13	4.95191e-30	1.000000	4.95191e-30	1.000000
rad7	1.16105e-30	1.000000	1.16105e-30	1.000000
rad38	7.83318e-31	1.000000	7.83318e-31	1.000000

rad28	7.69144e-31	1.000000	7.69144e-31	1.000000
Ph+Allene	1.93404e-32	1.000000	1.93404e-32	1.000000
rad33	1.68839e-32	1.000000	1.68839e-32	1.000000
rad35	1.52975e-32	1.000000	1.52975e-32	1.000000
PAH7+H	1.48386e-33	1.000000	1.48386e-33	1.000000
rad46	8.91769e-34	1.000000	8.91769e-34	1.000000
PAH3+H	6.20699e-34	1.000000	6.20699e-34	1.000000
rad59	2.63037e-34	1.000000	2.63037e-34	1.000000
PAH9+H	1.10124e-34	1.000000	1.10124e-34	1.000000
rad26	3.39736e-36	1.000000	3.39736e-36	1.000000
rad3	1.07062e-38	1.000000	1.07062e-38	1.000000
rad4	8.01492e-39	1.000000	8.01492e-39	1.000000
rad50	3.07047e-42	1.000000	3.07047e-42	1.000000
rad39	6.99974e-44	1.000000	6.99974e-44	1.000000
rad10	2.33904e-44	1.000000	2.33904e-44	1.000000
rad31	5.58653e-46	1.000000	5.58653e-46	1.000000
rad2	5.10740e-46	1.000000	5.10740e-46	1.000000
rad1	1.27742e-46	1.000000	1.27742e-46	1.000000
rad12	2.39053e-47	1.000000	2.39053e-47	1.000000
rad52	4.58623e-48	1.000000	4.58623e-48	1.000000
PhCCH+CH3	2.22764e-48	1.000000	2.22764e-48	1.000000
rad37	8.32234e-49	1.000000	8.32234e-49	1.000000
rad58	4.46562e-49	1.000000	4.46562e-49	1.000000
rad14	2.57780e-49	1.000000	2.57780e-49	1.000000
rad51	4.62350e-51	1.000000	4.62350e-51	1.000000
Ph+MeAc	4.09341e-52	1.000000	4.09341e-52	1.000000
rad70	2.51510e-55	1.000000	2.51510e-55	1.000000
rad47	1.02500e-55	1.000000	1.02500e-55	1.000000
PAH10+CH3	9.55040e-57	1.000000	9.55040e-57	1.000000
rad27	8.21402e-57	1.000000	8.21402e-57	1.000000
rad19syn	8.04811e-57	1.000000	8.04811e-57	1.000000
rad54	5.64153e-57	1.000000	5.64153e-57	1.000000
PhCCCH3+H	2.99653e-57	1.000000	2.99653e-57	1.000000
rad65	8.89518e-59	1.000000	8.89518e-59	1.000000
rad34	1.99857e-59	1.000000	1.99857e-59	1.000000
rad5	2.58158e-61	1.000000	2.58158e-61	1.000000
rad55	2.18975e-61	1.000000	2.18975e-61	1.000000
PAH1+H	1.19888e-61	1.000000	1.19888e-61	1.000000
PhcycC3H3_A+H	6.26228e-63	1.000000	6.26228e-63	1.000000
rad62	5.15626e-68	1.000000	5.15626e-68	1.000000
rad43	8.50877e-73	1.000000	8.50877e-73	1.000000
rad42	7.12664e-75	1.000000	7.12664e-75	1.000000
rad41	6.64650e-79	1.000000	6.64650e-79	1.000000

100000000. Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01169e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999918	0.999918	0.999918	0.999918
rad21	7.11338e-05	0.999989	7.11338e-05	0.999989
rad18	1.04375e-05	1.000000	1.04375e-05	1.000000
rad22	1.67706e-09	1.000000	1.67706e-09	1.000000
Benzyl+C2H2	1.17955e-09	1.000000	0.000000	1.000000
rad24	8.12604e-11	1.000000	8.12604e-11	1.000000
Indene+H	5.37939e-11	1.000000	5.37939e-11	1.000000
rad45	8.11859e-13	1.000000	8.11859e-13	1.000000
rad11	5.90007e-13	1.000000	5.90007e-13	1.000000
rad36	1.54029e-13	1.000000	1.54029e-13	1.000000
rad23	3.64461e-17	1.000000	3.64461e-17	1.000000
rad30	5.14365e-20	1.000000	5.14365e-20	1.000000
rad6	4.38963e-20	1.000000	4.38963e-20	1.000000
rad15	2.30611e-21	1.000000	2.30611e-21	1.000000
rad8	1.54444e-21	1.000000	1.54444e-21	1.000000
rad25	1.56815e-26	1.000000	1.56815e-26	1.000000
PhCH2CCH+H	1.69755e-27	1.000000	1.69755e-27	1.000000
rad9	8.59079e-28	1.000000	8.59079e-28	1.000000
rad60syn	7.94676e-28	1.000000	7.94676e-28	1.000000
rad60anti	1.28835e-28	1.000000	1.28835e-28	1.000000
PhCHCCH2+H	1.08761e-28	1.000000	1.08761e-28	1.000000
rad13	1.35087e-29	1.000000	1.35087e-29	1.000000
rad28	8.72352e-30	1.000000	8.72352e-30	1.000000
rad7	3.26448e-30	1.000000	3.26448e-30	1.000000
rad38	2.81255e-30	1.000000	2.81255e-30	1.000000
rad35	2.83593e-31	1.000000	2.83593e-31	1.000000
Ph+Allene	2.55709e-31	1.000000	2.55709e-31	1.000000
rad33	5.15022e-32	1.000000	5.15022e-32	1.000000

PAH7+H	2.49283e-32	1.000000	2.49283e-32	1.000000
PAH3+H	1.87956e-32	1.000000	1.87956e-32	1.000000
rad59	7.55040e-33	1.000000	7.55040e-33	1.000000
rad46	5.23724e-33	1.000000	5.23724e-33	1.000000
PAH9+H	3.58324e-34	1.000000	3.58324e-34	1.000000
rad26	8.51575e-35	1.000000	8.51575e-35	1.000000
rad3	5.10802e-38	1.000000	5.10802e-38	1.000000
rad4	3.87790e-38	1.000000	3.87790e-38	1.000000
rad50	8.74407e-41	1.000000	8.74407e-41	1.000000
rad39	1.36385e-42	1.000000	1.36385e-42	1.000000
rad10	7.13961e-43	1.000000	7.13961e-43	1.000000
rad2	4.58032e-45	1.000000	4.58032e-45	1.000000
rad31	3.79382e-45	1.000000	3.79382e-45	1.000000
rad1	1.14401e-45	1.000000	1.14401e-45	1.000000
rad12	8.11783e-46	1.000000	8.11783e-46	1.000000
rad52	3.24124e-46	1.000000	3.24124e-46	1.000000
rad58	8.01416e-47	1.000000	8.01416e-47	1.000000
PhCCH+CH3	3.28201e-47	1.000000	3.28201e-47	1.000000
rad37	3.27793e-47	1.000000	3.27793e-47	1.000000
rad14	3.00228e-48	1.000000	3.00228e-48	1.000000
rad51	5.37865e-49	1.000000	5.37865e-49	1.000000
Ph+MeAc	1.13526e-50	1.000000	1.13526e-50	1.000000
rad70	4.49083e-53	1.000000	4.49083e-53	1.000000
rad47	2.20755e-53	1.000000	2.20755e-53	1.000000
PAH10+CH3	1.25010e-54	1.000000	1.25010e-54	1.000000
rad19syn	8.05494e-55	1.000000	8.05494e-55	1.000000
rad54	7.28084e-55	1.000000	7.28084e-55	1.000000
rad27	1.55231e-55	1.000000	1.55231e-55	1.000000
PhCCCH3+H	7.68394e-56	1.000000	7.68394e-56	1.000000
rad65	1.42338e-56	1.000000	1.42338e-56	1.000000
rad34	4.52511e-57	1.000000	4.52511e-57	1.000000
rad55	4.83874e-59	1.000000	4.83874e-59	1.000000
PAH1+H	2.61830e-59	1.000000	2.61830e-59	1.000000
rad5	2.57617e-59	1.000000	2.57617e-59	1.000000
PhcycC3H3_A+H	1.46333e-60	1.000000	1.46333e-60	1.000000
rad62	9.69035e-66	1.000000	9.69035e-66	1.000000
rad43	1.90130e-70	1.000000	1.90130e-70	1.000000
rad42	3.06048e-72	1.000000	3.06048e-72	1.000000
rad41	1.92455e-76	1.000000	1.92455e-76	1.000000

100000000. Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54821e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999909	0.999909	0.999909	0.999909
rad21	7.94230e-05	0.999988	7.94230e-05	0.999988
rad18	1.17218e-05	1.00000	1.17218e-05	1.00000
rad22	2.12543e-09	1.00000	2.12543e-09	1.00000
Benzyl+C2H2	1.79813e-09	1.00000	0.00000	1.00000
rad24	1.06809e-10	1.00000	1.06809e-10	1.00000
Indene+H	6.90387e-11	1.00000	6.90387e-11	1.00000
rad45	1.19602e-12	1.00000	1.19602e-12	1.00000
rad11	8.64345e-13	1.00000	8.64345e-13	1.00000
rad36	2.24454e-13	1.00000	2.24454e-13	1.00000
rad23	5.43420e-17	1.00000	5.43420e-17	1.00000
rad30	1.23194e-19	1.00000	1.23194e-19	1.00000
rad6	8.51361e-20	1.00000	8.51361e-20	1.00000
rad8	1.17128e-20	1.00000	1.17128e-20	1.00000
rad15	6.77278e-21	1.00000	6.77278e-21	1.00000
rad25	5.57184e-26	1.00000	5.57184e-26	1.00000
PhCH2CCH+H	3.59092e-26	1.00000	3.59092e-26	1.00000
rad9	1.08182e-26	1.00000	1.08182e-26	1.00000
rad60syn	6.51534e-27	1.00000	6.51534e-27	1.00000
rad60anti	1.18669e-27	1.00000	1.18669e-27	1.00000
PhCHCCH2+H	6.37083e-28	1.00000	6.37083e-28	1.00000
rad28	8.02423e-29	1.00000	8.02423e-29	1.00000
rad13	3.73357e-29	1.00000	3.73357e-29	1.00000
rad38	9.87124e-30	1.00000	9.87124e-30	1.00000
rad7	9.29549e-30	1.00000	9.29549e-30	1.00000
rad35	3.91311e-30	1.00000	3.91311e-30	1.00000
Ph+Allene	2.71780e-30	1.00000	2.71780e-30	1.00000
PAH3+H	3.80712e-31	1.00000	3.80712e-31	1.00000
PAH7+H	3.24346e-31	1.00000	3.24346e-31	1.00000
rad33	1.58717e-31	1.00000	1.58717e-31	1.00000
rad59	1.46839e-31	1.00000	1.46839e-31	1.00000
rad46	2.79035e-32	1.00000	2.79035e-32	1.00000

rad26	1.55029e-33	1.00000	1.55029e-33	1.00000
PAH9+H	1.16502e-33	1.00000	1.16502e-33	1.00000
rad3	2.43179e-37	1.00000	2.43179e-37	1.00000
rad4	1.86377e-37	1.00000	1.86377e-37	1.00000
rad50	1.85490e-39	1.00000	1.85490e-39	1.00000
rad39	2.17376e-41	1.00000	2.17376e-41	1.00000
rad10	1.58595e-41	1.00000	1.58595e-41	1.00000
rad2	3.92973e-44	1.00000	3.92973e-44	1.00000
rad31	2.46466e-44	1.00000	2.46466e-44	1.00000
rad12	2.01377e-44	1.00000	2.01377e-44	1.00000
rad52	1.61331e-44	1.00000	1.61331e-44	1.00000
rad58	1.11857e-44	1.00000	1.11857e-44	1.00000
rad1	9.78253e-45	1.00000	9.78253e-45	1.00000
rad37	9.39964e-46	1.00000	9.39964e-46	1.00000
PhCCH+CH3	4.41396e-46	1.00000	4.41396e-46	1.00000
rad51	4.49349e-47	1.00000	4.49349e-47	1.00000
rad14	3.26548e-47	1.00000	3.26548e-47	1.00000
Ph+MeAc	2.61867e-49	1.00000	2.61867e-49	1.00000
rad70	6.11260e-51	1.00000	6.11260e-51	1.00000
rad47	3.47712e-51	1.00000	3.47712e-51	1.00000
PAH10+CH3	1.22309e-52	1.00000	1.22309e-52	1.00000
rad54	6.60442e-53	1.00000	6.60442e-53	1.00000
rad19syn	5.65285e-53	1.00000	5.65285e-53	1.00000
rad27	2.71637e-54	1.00000	2.71637e-54	1.00000
PhCCCH3+H	1.76532e-54	1.00000	1.76532e-54	1.00000
rad65	1.71160e-54	1.00000	1.71160e-54	1.00000
rad34	7.86613e-55	1.00000	7.86613e-55	1.00000
rad55	7.48890e-57	1.00000	7.48890e-57	1.00000
PAH1+H	4.35635e-57	1.00000	4.35635e-57	1.00000
rad5	1.87040e-57	1.00000	1.87040e-57	1.00000
PhcycC3H3_A+H	2.40461e-58	1.00000	2.40461e-58	1.00000
rad62	1.31113e-63	1.00000	1.31113e-63	1.00000
rad43	3.23789e-68	1.00000	3.23789e-68	1.00000
rad42	9.04523e-70	1.00000	9.04523e-70	1.00000
rad41	4.24083e-74	1.00000	4.24083e-74	1.00000

100000000. Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69315e-29 (1.00)	4.69315e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999898	0.999898	0.999898	0.999898
rad21	8.86705e-05	0.999987	8.86705e-05	0.999987
rad18	1.31669e-05	1.000000	1.31669e-05	1.000000
Benzyl+C2H2	2.72808e-09	1.000000	0.000000	1.000000
rad22	2.69694e-09	1.000000	2.69694e-09	1.000000
rad24	1.40846e-10	1.000000	1.40846e-10	1.000000
Indene+H	8.88277e-11	1.000000	8.88277e-11	1.000000
rad45	1.76854e-12	1.000000	1.76854e-12	1.000000
rad11	1.27267e-12	1.000000	1.27267e-12	1.000000
rad36	3.28471e-13	1.000000	3.28471e-13	1.000000
rad23	8.15462e-17	1.000000	8.15462e-17	1.000000
rad30	2.83824e-19	1.000000	2.83824e-19	1.000000
rad6	1.66476e-19	1.000000	1.66476e-19	1.000000
rad8	7.25579e-20	1.000000	7.25579e-20	1.000000
rad15	1.86229e-20	1.000000	1.86229e-20	1.000000
PhCH2CCH+H	5.41563e-25	1.000000	5.41563e-25	1.000000
rad25	1.87595e-25	1.000000	1.87595e-25	1.000000
rad9	1.07418e-25	1.000000	1.07418e-25	1.000000
rad60syn	4.40514e-26	1.000000	4.40514e-26	1.000000
rad60anti	8.88361e-27	1.000000	8.88361e-27	1.000000
PhCHCCH2+H	3.33480e-27	1.000000	3.33480e-27	1.000000
rad28	6.15081e-28	1.000000	6.15081e-28	1.000000
rad13	1.04040e-28	1.000000	1.04040e-28	1.000000
rad35	4.19277e-29	1.000000	4.19277e-29	1.000000
rad38	3.38707e-29	1.000000	3.38707e-29	1.000000
rad7	2.66676e-29	1.000000	2.66676e-29	1.000000
Ph+Allene	2.38957e-29	1.000000	2.38957e-29	1.000000
PAH3+H	5.67374e-30	1.000000	5.67374e-30	1.000000
PAH7+H	3.38107e-30	1.000000	3.38107e-30	1.000000
rad59	2.11218e-30	1.000000	2.11218e-30	1.000000
rad33	4.91301e-31	1.000000	4.91301e-31	1.000000
rad46	1.36583e-31	1.000000	1.36583e-31	1.000000
rad26	2.15934e-32	1.000000	2.15934e-32	1.000000
PAH9+H	3.77413e-33	1.000000	3.77413e-33	1.000000
rad3	1.14653e-36	1.000000	1.14653e-36	1.000000
rad4	8.84060e-37	1.000000	8.84060e-37	1.000000

rad50	3.05347e-38	1.000000	3.05347e-38	1.000000
rad39	2.89663e-40	1.000000	2.89663e-40	1.000000
rad10	2.70279e-40	1.000000	2.70279e-40	1.000000
rad58	1.33344e-42	1.000000	1.33344e-42	1.000000
rad52	5.62864e-43	1.000000	5.62864e-43	1.000000
rad12	3.83639e-43	1.000000	3.83639e-43	1.000000
rad2	3.21072e-43	1.000000	3.21072e-43	1.000000
rad31	1.52379e-43	1.000000	1.52379e-43	1.000000
rad1	7.95493e-44	1.000000	7.95493e-44	1.000000
rad37	2.05416e-44	1.000000	2.05416e-44	1.000000
PhCCH+CH3	5.42413e-45	1.000000	5.42413e-45	1.000000
rad51	2.69940e-45	1.000000	2.69940e-45	1.000000
rad14	3.31378e-46	1.000000	3.31378e-46	1.000000
Ph+MeAc	5.09602e-48	1.000000	5.09602e-48	1.000000
rad70	6.76191e-49	1.000000	6.76191e-49	1.000000
rad47	4.06624e-49	1.000000	4.06624e-49	1.000000
PAH10+CH3	9.18786e-51	1.000000	9.18786e-51	1.000000
rad54	4.27331e-51	1.000000	4.27331e-51	1.000000
rad19syn	2.79225e-51	1.000000	2.79225e-51	1.000000
rad65	1.62264e-52	1.000000	1.62264e-52	1.000000
rad34	1.13546e-52	1.000000	1.13546e-52	1.000000
rad27	4.37788e-53	1.000000	4.37788e-53	1.000000
PhCCCH3+H	3.62440e-53	1.000000	3.62440e-53	1.000000
rad55	8.22722e-55	1.000000	8.22722e-55	1.000000
PAH1+H	5.89928e-55	1.000000	5.89928e-55	1.000000
rad5	9.97688e-56	1.000000	9.97688e-56	1.000000
PhcycC3H3_A+H	2.81092e-56	1.000000	2.81092e-56	1.000000
rad62	1.30331e-61	1.000000	1.30331e-61	1.000000
rad43	4.48107e-66	1.000000	4.48107e-66	1.000000
rad42	1.83164e-67	1.000000	1.83164e-67	1.000000
rad41	7.61612e-72	1.000000	7.61612e-72	1.000000

100000000. Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.16530e-28 (1.00)	3.16530e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999886	0.999886	0.999886	0.999886
rad21	9.90240e-05	0.999985	9.90240e-05	0.999985
rad18	1.47984e-05	1.000000	1.47984e-05	1.000000
Benzyl+C2H2	4.11785e-09	1.000000	0.000000	1.000000
rad22	3.42835e-09	1.000000	3.42835e-09	1.000000
rad24	1.86402e-10	1.000000	1.86402e-10	1.000000
Indene+H	1.14650e-10	1.000000	1.14650e-10	1.000000
rad45	2.62599e-12	1.000000	2.62599e-12	1.000000
rad11	1.88226e-12	1.000000	1.88226e-12	1.000000
rad36	4.82946e-13	1.000000	4.82946e-13	1.000000
rad23	1.23236e-16	1.000000	1.23236e-16	1.000000
rad30	6.32583e-19	1.000000	6.32583e-19	1.000000
rad8	3.78431e-19	1.000000	3.78431e-19	1.000000
rad6	3.27396e-19	1.000000	3.27396e-19	1.000000
rad15	4.84231e-20	1.000000	4.84231e-20	1.000000
PhCH2CCH+H	6.27545e-24	1.000000	6.27545e-24	1.000000
rad9	8.69299e-25	1.000000	8.69299e-25	1.000000
rad25	6.02272e-25	1.000000	6.02272e-25	1.000000
rad60syn	2.52623e-25	1.000000	2.52623e-25	1.000000
rad60anti	5.57028e-26	1.000000	5.57028e-26	1.000000
PhCHCCH2+H	1.58309e-26	1.000000	1.58309e-26	1.000000
rad28	4.02743e-27	1.000000	4.02743e-27	1.000000
rad35	3.62353e-28	1.000000	3.62353e-28	1.000000
rad13	2.90990e-28	1.000000	2.90990e-28	1.000000
Ph+Allene	1.78397e-28	1.000000	1.78397e-28	1.000000
rad38	1.13646e-28	1.000000	1.13646e-28	1.000000
rad7	7.67179e-29	1.000000	7.67179e-29	1.000000
PAH3+H	6.60443e-29	1.000000	6.60443e-29	1.000000
PAH7+H	2.91253e-29	1.000000	2.91253e-29	1.000000
rad59	2.37594e-29	1.000000	2.37594e-29	1.000000
rad33	1.51987e-30	1.000000	1.51987e-30	1.000000
rad46	6.21043e-31	1.000000	6.21043e-31	1.000000
rad26	2.40196e-31	1.000000	2.40196e-31	1.000000
PAH9+H	1.21504e-32	1.000000	1.21504e-32	1.000000
rad3	5.32316e-36	1.000000	5.32316e-36	1.000000
rad4	4.11907e-36	1.000000	4.11907e-36	1.000000
rad50	4.07442e-37	1.000000	4.07442e-37	1.000000
rad10	3.73345e-39	1.000000	3.73345e-39	1.000000
rad39	3.32271e-39	1.000000	3.32271e-39	1.000000
rad58	1.82652e-40	1.000000	1.82652e-40	1.000000

rad52	1.49712e-41	1.000000	1.49712e-41	1.000000
rad12	5.98906e-42	1.000000	5.98906e-42	1.000000
rad2	2.49660e-42	1.000000	2.49660e-42	1.000000
rad31	8.94634e-43	1.000000	8.94634e-43	1.000000
rad1	6.15058e-43	1.000000	6.15058e-43	1.000000
rad37	3.70208e-43	1.000000	3.70208e-43	1.000000
rad51	1.29406e-43	1.000000	1.29406e-43	1.000000
PhCCH+CH3	6.14784e-44	1.000000	6.14784e-44	1.000000
rad14	3.15016e-45	1.000000	3.15016e-45	1.000000
Ph+MeAc	8.70118e-47	1.000000	8.70118e-47	1.000000
rad70	7.76767e-47	1.000000	7.76767e-47	1.000000
rad47	4.14487e-47	1.000000	4.14487e-47	1.000000
PAH10+CH3	6.21039e-49	1.000000	6.21039e-49	1.000000
rad54	2.24127e-49	1.000000	2.24127e-49	1.000000
rad19syn	1.08978e-49	1.000000	1.08978e-49	1.000000
rad34	1.79810e-50	1.000000	1.79810e-50	1.000000
rad65	1.51702e-50	1.000000	1.51702e-50	1.000000
PhCCCH3+H	6.85866e-52	1.000000	6.85866e-52	1.000000
rad27	6.61443e-52	1.000000	6.61443e-52	1.000000
PAH1+H	8.43496e-53	1.000000	8.43496e-53	1.000000
rad55	7.47549e-53	1.000000	7.47549e-53	1.000000
rad5	4.60642e-54	1.000000	4.60642e-54	1.000000
PhcycC3H3_A+H	2.71913e-54	1.000000	2.71913e-54	1.000000
rad62	1.10687e-59	1.000000	1.10687e-59	1.000000
rad43	6.54318e-64	1.000000	6.54318e-64	1.000000
rad42	2.92827e-65	1.000000	2.92827e-65	1.000000
rad41	1.45384e-69	1.000000	1.45384e-69	1.000000

100000000. Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76115e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999873	0.999873	0.999873	0.999873
rad21	0.000110650	0.999984	0.000110650	0.999984
rad18	1.66458e-05	1.00000	1.66458e-05	1.00000
Benzyl+C2H2	6.18178e-09	1.00000	0.00000	1.00000
rad22	4.36770e-09	1.00000	4.36770e-09	1.00000
rad24	2.47603e-10	1.00000	2.47603e-10	1.00000
Indene+H	1.48502e-10	1.00000	1.48502e-10	1.00000
rad45	3.91543e-12	1.00000	3.91543e-12	1.00000
rad11	2.79406e-12	1.00000	2.79406e-12	1.00000
rad36	7.13408e-13	1.00000	7.13408e-13	1.00000
rad23	1.87594e-16	1.00000	1.87594e-16	1.00000
rad8	1.70392e-18	1.00000	1.70392e-18	1.00000
rad30	1.36992e-18	1.00000	1.36992e-18	1.00000
rad6	6.45998e-19	1.00000	6.45998e-19	1.00000
rad15	1.20026e-19	1.00000	1.20026e-19	1.00000
PhCH2CCH+H	5.78698e-23	1.00000	5.78698e-23	1.00000
rad9	5.89447e-24	1.00000	5.89447e-24	1.00000
rad25	1.85313e-24	1.00000	1.85313e-24	1.00000
rad60syn	1.25822e-24	1.00000	1.25822e-24	1.00000
rad60anti	3.00068e-25	1.00000	3.00068e-25	1.00000
PhCHCCH2+H	6.90085e-26	1.00000	6.90085e-26	1.00000
rad28	2.30109e-26	1.00000	2.30109e-26	1.00000
rad35	2.60421e-27	1.00000	2.60421e-27	1.00000
Ph+Allene	1.15577e-27	1.00000	1.15577e-27	1.00000
rad13	8.13620e-28	1.00000	8.13620e-28	1.00000
PAH3+H	6.19579e-28	1.00000	6.19579e-28	1.00000
rad38	3.72976e-28	1.00000	3.72976e-28	1.00000
rad7	2.20409e-28	1.00000	2.20409e-28	1.00000
rad59	2.15840e-28	1.00000	2.15840e-28	1.00000
PAH7+H	2.12643e-28	1.00000	2.12643e-28	1.00000
rad33	4.67919e-30	1.00000	4.67919e-30	1.00000
rad46	2.64775e-30	1.00000	2.64775e-30	1.00000
rad26	2.19425e-30	1.00000	2.19425e-30	1.00000
PAH9+H	3.87854e-32	1.00000	3.87854e-32	1.00000
rad3	2.42358e-35	1.00000	2.42358e-35	1.00000
rad4	1.87859e-35	1.00000	1.87859e-35	1.00000
rad50	4.50193e-36	1.00000	4.50193e-36	1.00000
rad10	4.25705e-38	1.00000	4.25705e-38	1.00000
rad39	3.31869e-38	1.00000	3.31869e-38	1.00000
rad58	2.03548e-38	1.00000	2.03548e-38	1.00000
rad52	2.98595e-40	1.00000	2.98595e-40	1.00000
rad12	7.71004e-41	1.00000	7.71004e-41	1.00000
rad2	1.84673e-41	1.00000	1.84673e-41	1.00000
rad37	5.44510e-42	1.00000	5.44510e-42	1.00000

rad31	4.98529e-42	1.00000	4.98529e-42	1.00000
rad1	4.52102e-42	1.00000	4.52102e-42	1.00000
rad51	4.32362e-42	1.00000	4.32362e-42	1.00000
PhCCH+CH3	6.42608e-43	1.00000	6.42608e-43	1.00000
rad14	2.80599e-44	1.00000	2.80599e-44	1.00000
rad70	6.55344e-45	1.00000	6.55344e-45	1.00000
rad47	3.05690e-45	1.00000	3.05690e-45	1.00000
Ph+MeAc	1.29756e-45	1.00000	1.29756e-45	1.00000
PAH10+CH3	2.78232e-47	1.00000	2.78232e-47	1.00000
rad54	8.12139e-48	1.00000	8.12139e-48	1.00000
rad19syn	3.06702e-48	1.00000	3.06702e-48	1.00000
rad34	2.27754e-48	1.00000	2.27754e-48	1.00000
rad65	1.03514e-48	1.00000	1.03514e-48	1.00000
PhCCCH3+H	1.17551e-50	1.00000	1.17551e-50	1.00000
rad27	9.45788e-51	1.00000	9.45788e-51	1.00000
PAH1+H	9.41564e-51	1.00000	9.41564e-51	1.00000
rad55	4.72369e-51	1.00000	4.72369e-51	1.00000
PhcycC3H3_A+H	1.82781e-52	1.00000	1.82781e-52	1.00000
rad5	1.57774e-52	1.00000	1.57774e-52	1.00000
rad62	6.79453e-58	1.00000	6.79453e-58	1.00000
rad43	7.72166e-62	1.00000	7.72166e-62	1.00000
rad42	3.08799e-63	1.00000	3.08799e-63	1.00000
rad41	2.19741e-67	1.00000	2.19741e-67	1.00000

100000000. Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.30956e-27 (1.00)	8.30956e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999858	0.999858	0.999858	0.999858
rad21	0.000123735	0.999982	0.000123735	0.999982
rad18	1.87422e-05	1.00000	1.87422e-05	1.00000
Benzyl+C2H2	9.22675e-09	1.00000	0.00000	1.00000
rad22	5.57761e-09	1.00000	5.57761e-09	1.00000
rad24	3.30066e-10	1.00000	3.30066e-10	1.00000
Indene+H	1.93057e-10	1.00000	1.93057e-10	1.00000
rad45	5.86073e-12	1.00000	5.86073e-12	1.00000
rad11	4.15902e-12	1.00000	4.15902e-12	1.00000
rad36	1.05849e-12	1.00000	1.05849e-12	1.00000
rad23	2.87595e-16	1.00000	2.87595e-16	1.00000
rad8	6.76202e-18	1.00000	6.76202e-18	1.00000
rad30	2.89231e-18	1.00000	2.89231e-18	1.00000
rad6	1.27597e-18	1.00000	1.27597e-18	1.00000
rad15	2.85437e-19	1.00000	2.85437e-19	1.00000
PhCH2CCH+H	4.39425e-22	1.00000	4.39425e-22	1.00000
rad9	3.42958e-23	1.00000	3.42958e-23	1.00000
rad60syn	5.55146e-24	1.00000	5.55146e-24	1.00000
rad25	5.48659e-24	1.00000	5.48659e-24	1.00000
rad60anti	1.41861e-24	1.00000	1.41861e-24	1.00000
PhCHCCH2+H	2.79094e-25	1.00000	2.79094e-25	1.00000
rad28	1.16822e-25	1.00000	1.16822e-25	1.00000
rad35	1.59782e-26	1.00000	1.59782e-26	1.00000
Ph+Allene	6.62045e-27	1.00000	6.62045e-27	1.00000
PAH3+H	4.83442e-27	1.00000	4.83442e-27	1.00000
rad13	2.26651e-27	1.00000	2.26651e-27	1.00000
rad59	1.63324e-27	1.00000	1.63324e-27	1.00000
PAH7+H	1.34526e-27	1.00000	1.34526e-27	1.00000
rad38	1.19777e-27	1.00000	1.19777e-27	1.00000
rad7	6.30214e-28	1.00000	6.30214e-28	1.00000
rad26	1.69135e-29	1.00000	1.69135e-29	1.00000
rad33	1.42874e-29	1.00000	1.42874e-29	1.00000
rad46	1.06665e-29	1.00000	1.06665e-29	1.00000
PAH9+H	1.22522e-31	1.00000	1.22522e-31	1.00000
rad3	1.07879e-34	1.00000	1.07879e-34	1.00000
rad4	8.36593e-35	1.00000	8.36593e-35	1.00000
rad50	4.22734e-35	1.00000	4.22734e-35	1.00000
rad58	1.50852e-36	1.00000	1.50852e-36	1.00000
rad10	4.11584e-37	1.00000	4.11584e-37	1.00000
rad39	2.93058e-37	1.00000	2.93058e-37	1.00000
rad52	4.69922e-39	1.00000	4.69922e-39	1.00000
rad12	8.39465e-40	1.00000	8.39465e-40	1.00000
rad2	1.30035e-40	1.00000	1.30035e-40	1.00000
rad51	1.03573e-40	1.00000	1.03573e-40	1.00000
rad37	6.69910e-41	1.00000	6.69910e-41	1.00000
rad1	3.16238e-41	1.00000	3.16238e-41	1.00000
rad31	2.63906e-41	1.00000	2.63906e-41	1.00000
PhCCH+CH3	6.21139e-42	1.00000	6.21139e-42	1.00000

rad70	3.42764e-43	1.00000	3.42764e-43	1.00000
rad14	2.34596e-43	1.00000	2.34596e-43	1.00000
rad47	1.57992e-43	1.00000	1.57992e-43	1.00000
Ph+MeAc	1.70664e-44	1.00000	1.70664e-44	1.00000
PAH10+CH3	8.38733e-46	1.00000	8.38733e-46	1.00000
rad34	2.14987e-46	1.00000	2.14987e-46	1.00000
rad54	2.10684e-46	1.00000	2.10684e-46	1.00000
rad19syn	6.53659e-47	1.00000	6.53659e-47	1.00000
rad65	4.28307e-47	1.00000	4.28307e-47	1.00000
PAH1+H	7.65925e-49	1.00000	7.65925e-49	1.00000
rad55	2.04197e-49	1.00000	2.04197e-49	1.00000
PhCCCH3+H	1.81933e-49	1.00000	1.81933e-49	1.00000
rad27	1.38656e-49	1.00000	1.38656e-49	1.00000
PhcycC3H3_A+H	8.42866e-51	1.00000	8.42866e-51	1.00000
rad5	4.09838e-51	1.00000	4.09838e-51	1.00000
rad62	2.99250e-56	1.00000	2.99250e-56	1.00000
rad43	6.93487e-60	1.00000	6.93487e-60	1.00000
rad42	2.14941e-61	1.00000	2.14941e-61	1.00000
rad41	2.51361e-65	1.00000	2.51361e-65	1.00000

100000000. Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.40057e-26 (1.00)	3.40057e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999840	0.999840	0.999840	0.999840
rad21	0.000138490	0.999978	0.000138490	0.999978
rad18	2.11255e-05	1.000000	2.11255e-05	1.000000
Benzyl+C2H2	1.36886e-08	1.000000	0.000000	1.000000
rad22	7.13973e-09	1.000000	7.13973e-09	1.000000
rad24	4.41417e-10	1.000000	4.41417e-10	1.000000
Indene+H	2.51899e-10	1.000000	2.51899e-10	1.000000
rad45	8.80215e-12	1.000000	8.80215e-12	1.000000
rad11	6.20215e-12	1.000000	6.20215e-12	1.000000
rad36	1.57657e-12	1.000000	1.57657e-12	1.000000
rad23	4.43854e-16	1.000000	4.43854e-16	1.000000
rad8	2.40617e-17	1.000000	2.40617e-17	1.000000
rad30	5.96885e-18	1.000000	5.96885e-18	1.000000
rad6	2.51781e-18	1.000000	2.51781e-18	1.000000
rad15	6.54628e-19	1.000000	6.54628e-19	1.000000
PhCH2CCH+H	2.82248e-21	1.000000	2.82248e-21	1.000000
rad9	1.74693e-22	1.000000	1.74693e-22	1.000000
rad60syn	2.20595e-23	1.000000	2.20595e-23	1.000000
rad25	1.56813e-23	1.000000	1.56813e-23	1.000000
rad60anti	5.99148e-24	1.000000	5.99148e-24	1.000000
PhCHCCH2+H	1.05627e-24	1.000000	1.05627e-24	1.000000
rad28	5.35114e-25	1.000000	5.35114e-25	1.000000
rad35	8.55428e-26	1.000000	8.55428e-26	1.000000
Ph+Allene	3.40619e-26	1.000000	3.40619e-26	1.000000
PAH3+H	3.21930e-26	1.000000	3.21930e-26	1.000000
rad59	1.05589e-26	1.000000	1.05589e-26	1.000000
PAH7+H	7.51413e-27	1.000000	7.51413e-27	1.000000
rad13	6.27293e-27	1.000000	6.27293e-27	1.000000
rad38	3.76573e-27	1.000000	3.76573e-27	1.000000
rad7	1.78834e-27	1.000000	1.78834e-27	1.000000
rad26	1.12545e-28	1.000000	1.12545e-28	1.000000
rad33	4.31499e-29	1.000000	4.31499e-29	1.000000
rad46	4.08642e-29	1.000000	4.08642e-29	1.000000
PAH9+H	3.82432e-31	1.000000	3.82432e-31	1.000000
rad3	4.68518e-34	1.000000	4.68518e-34	1.000000
rad4	3.63195e-34	1.000000	3.63195e-34	1.000000
rad50	3.45219e-34	1.000000	3.45219e-34	1.000000
rad58	4.18929e-35	1.000000	4.18929e-35	1.000000
rad10	3.45588e-36	1.000000	3.45588e-36	1.000000
rad39	2.32276e-36	1.000000	2.32276e-36	1.000000
rad52	6.10387e-38	1.000000	6.10387e-38	1.000000
rad12	7.91946e-39	1.000000	7.91946e-39	1.000000
rad51	1.89258e-39	1.000000	1.89258e-39	1.000000
rad2	8.72999e-40	1.000000	8.73000e-40	1.000000
rad37	7.07073e-40	1.000000	7.07073e-40	1.000000
rad1	2.10881e-40	1.000000	2.10881e-40	1.000000
rad31	1.32976e-40	1.000000	1.32976e-40	1.000000
PhCCH+CH3	5.57607e-41	1.000000	5.57607e-41	1.000000
rad70	9.26548e-42	1.000000	9.26548e-42	1.000000
rad47	5.13473e-42	1.000000	5.13473e-42	1.000000
rad14	1.84632e-42	1.000000	1.84632e-42	1.000000
Ph+MeAc	2.00182e-43	1.000000	2.00182e-43	1.000000

PAH10+CH3	1.73078e-44	1.000000	1.73078e-44	1.000000
rad34	9.78476e-45	1.000000	9.78477e-45	1.000000
rad54	4.08744e-45	1.000000	4.08744e-45	1.000000
rad19syn	1.09998e-45	1.000000	1.09998e-45	1.000000
rad65	1.02540e-45	1.000000	1.02540e-45	1.000000
PAH1+H	3.15743e-47	1.000000	3.15743e-47	1.000000
rad55	5.72433e-48	1.000000	5.72433e-48	1.000000
PhCCCH3+H	2.53327e-48	1.000000	2.53327e-48	1.000000
rad27	2.17169e-48	1.000000	2.17169e-48	1.000000
PhcycC3H3_A+H	2.49718e-49	1.000000	2.49718e-49	1.000000
rad5	7.99826e-50	1.000000	7.99826e-50	1.000000
rad62	9.03841e-55	1.000000	9.03841e-55	1.000000
rad43	3.23935e-58	1.000000	3.23935e-58	1.000000
rad42	9.12963e-60	1.000000	9.12963e-60	1.000000
rad41	1.42462e-63	1.000000	1.42462e-63	1.000000

100000000. Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22972e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999821	0.999821	0.999821	0.999821
rad21	0.000155152	0.999976	0.000155152	0.999976
rad18	2.38383e-05	1.000000	2.38383e-05	1.000000
Benzyl+C2H2	2.01812e-08	1.000000	0.000000	1.000000
rad22	9.16026e-09	1.000000	9.16026e-09	1.000000
rad24	5.91989e-10	1.000000	5.91989e-10	1.000000
Indene+H	3.29824e-10	1.000000	3.29824e-10	1.000000
rad45	1.32558e-11	1.000000	1.32558e-11	1.000000
rad11	9.25743e-12	1.000000	9.25743e-12	1.000000
rad36	2.35578e-12	1.000000	2.35578e-12	1.000000
rad23	6.89171e-16	1.000000	6.89171e-16	1.000000
rad8	7.78773e-17	1.000000	7.78773e-17	1.000000
rad30	1.20645e-17	1.000000	1.20645e-17	1.000000
rad6	4.95462e-18	1.000000	4.95462e-18	1.000000
rad15	1.45385e-18	1.000000	1.45385e-18	1.000000
PhCH2CCH+H	1.56684e-20	1.000000	1.56684e-20	1.000000
rad9	7.92274e-22	1.000000	7.92274e-22	1.000000
rad60syn	8.00377e-23	1.000000	8.00377e-23	1.000000
rad25	4.33795e-23	1.000000	4.33795e-23	1.000000
rad60anti	2.29451e-23	1.000000	2.29451e-23	1.000000
PhCHCCH2+H	3.76755e-24	1.000000	3.76755e-24	1.000000
rad28	2.24003e-24	1.000000	2.24003e-24	1.000000
rad35	4.06919e-25	1.000000	4.06919e-25	1.000000
PAH3+H	1.86778e-25	1.000000	1.86778e-25	1.000000
Ph+Allene	1.59485e-25	1.000000	1.59485e-25	1.000000
rad59	5.95347e-26	1.000000	5.95347e-26	1.000000
PAH7+H	3.76416e-26	1.000000	3.76416e-26	1.000000
rad13	1.72098e-26	1.000000	1.72098e-26	1.000000
rad38	1.15979e-26	1.000000	1.15979e-26	1.000000
rad7	5.02512e-27	1.000000	5.02512e-27	1.000000
rad26	6.58759e-28	1.000000	6.58759e-28	1.000000
rad46	1.49690e-28	1.000000	1.49690e-28	1.000000
rad33	1.28631e-28	1.000000	1.28631e-28	1.000000
PAH9+H	1.17806e-30	1.000000	1.17806e-30	1.000000
rad50	2.50001e-33	1.000000	2.50001e-33	1.000000
rad3	1.98281e-33	1.000000	1.98281e-33	1.000000
rad4	1.53567e-33	1.000000	1.53567e-33	1.000000
rad58	9.15712e-34	1.000000	9.15712e-34	1.000000
rad10	2.57352e-35	1.000000	2.57352e-35	1.000000
rad39	1.67917e-35	1.000000	1.67917e-35	1.000000
rad52	6.79940e-37	1.000000	6.79940e-37	1.000000
rad12	6.64392e-38	1.000000	6.64392e-38	1.000000
rad51	2.90363e-38	1.000000	2.90363e-38	1.000000
rad37	6.63729e-39	1.000000	6.63729e-39	1.000000
rad2	5.60685e-39	1.000000	5.60685e-39	1.000000
rad1	1.34537e-39	1.000000	1.34537e-39	1.000000
rad31	6.39522e-40	1.000000	6.39522e-40	1.000000
PhCCH+CH3	4.69873e-40	1.000000	4.69873e-40	1.000000
rad70	2.21014e-40	1.000000	2.21014e-40	1.000000
rad47	1.45079e-40	1.000000	1.45079e-40	1.000000
rad14	1.37697e-41	1.000000	1.37697e-41	1.000000
Ph+MeAc	2.15419e-42	1.000000	2.15419e-42	1.000000
rad34	4.88310e-43	1.000000	4.88310e-43	1.000000
PAH10+CH3	3.27557e-43	1.000000	3.27557e-43	1.000000
rad54	6.85533e-44	1.000000	6.85533e-44	1.000000
rad65	2.15270e-44	1.000000	2.15270e-44	1.000000

rad19syn	1.61807e-44	1.00000	1.61807e-44	1.00000
PAH1+H	1.35154e-45	1.00000	1.35154e-45	1.00000
rad55	1.37065e-46	1.00000	1.37065e-46	1.00000
rad27	4.48029e-47	1.00000	4.48029e-47	1.00000
PhCCCH3+H	3.30196e-47	1.00000	3.30196e-47	1.00000
PhcycC3H3_A+H	6.36280e-48	1.00000	6.36280e-48	1.00000
rad5	1.47381e-48	1.00000	1.47381e-48	1.00000
rad62	2.42624e-53	1.00000	2.42624e-53	1.00000
rad43	1.77268e-56	1.00000	1.77268e-56	1.00000
rad42	3.47120e-58	1.00000	3.47120e-58	1.00000
rad41	1.05248e-61	1.00000	1.05248e-61	1.00000

100000000. Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.99091e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999799	0.999799	0.999799	0.999799
rad21	0.000173987	0.999973	0.000173987	0.999973
rad18	2.69290e-05	1.000000	2.69290e-05	1.000000
Benzyl+C2H2	2.95620e-08	1.000000	0.000000	1.000000
rad22	1.17771e-08	1.000000	1.17771e-08	1.000000
rad24	7.95741e-10	1.000000	7.95741e-10	1.000000
Indene+H	4.33247e-10	1.000000	4.33247e-10	1.000000
rad45	2.00026e-11	1.000000	2.00026e-11	1.000000
rad11	1.38184e-11	1.000000	1.38184e-11	1.000000
rad36	3.52881e-12	1.000000	3.52881e-12	1.000000
rad23	1.07578e-15	1.000000	1.07578e-15	1.000000
rad8	2.32018e-16	1.000000	2.32018e-16	1.000000
rad30	2.39219e-17	1.000000	2.39219e-17	1.000000
rad6	9.70848e-18	1.000000	9.70848e-18	1.000000
rad15	3.13708e-18	1.000000	3.13708e-18	1.000000
PhCH2CCH+H	7.65314e-20	1.000000	7.65315e-20	1.000000
rad9	3.24500e-21	1.000000	3.24500e-21	1.000000
rad60syn	2.68226e-22	1.000000	2.68226e-22	1.000000
rad25	1.16402e-22	1.000000	1.16402e-22	1.000000
rad60anti	8.06740e-23	1.000000	8.06740e-23	1.000000
PhCHCCH2+H	1.27401e-23	1.000000	1.27401e-23	1.000000
rad28	8.66172e-24	1.000000	8.66172e-24	1.000000
rad35	1.74596e-24	1.000000	1.74596e-24	1.000000
PAH3+H	9.60229e-25	1.000000	9.60229e-25	1.000000
Ph+Allene	6.87031e-25	1.000000	6.87031e-25	1.000000
rad59	2.97768e-25	1.000000	2.97768e-25	1.000000
PAH7+H	1.71334e-25	1.000000	1.71334e-25	1.000000
rad13	4.67193e-26	1.000000	4.67193e-26	1.000000
rad38	3.50194e-26	1.000000	3.50194e-26	1.000000
rad7	1.39578e-26	1.000000	1.39578e-26	1.000000
rad26	3.44448e-27	1.000000	3.44448e-27	1.000000
rad46	5.26718e-28	1.000000	5.26718e-28	1.000000
rad33	3.77894e-28	1.000000	3.77894e-28	1.000000
PAH9+H	3.57825e-30	1.000000	3.57825e-30	1.000000
rad50	1.62814e-32	1.000000	1.62814e-32	1.000000
rad58	1.24089e-32	1.000000	1.24089e-32	1.000000
rad3	8.17038e-33	1.000000	8.17038e-33	1.000000
rad4	6.32011e-33	1.000000	6.32011e-33	1.000000
rad10	1.71669e-34	1.000000	1.71669e-34	1.000000
rad39	1.11259e-34	1.000000	1.11259e-34	1.000000
rad52	6.54320e-36	1.000000	6.54320e-36	1.000000
rad12	4.96735e-37	1.000000	4.96735e-37	1.000000
rad51	3.63063e-37	1.000000	3.63063e-37	1.000000
rad37	5.49215e-38	1.000000	5.49215e-38	1.000000
rad2	3.44258e-38	1.000000	3.44258e-38	1.000000
rad1	8.20706e-39	1.000000	8.20706e-39	1.000000
PhCCH+CH3	3.69434e-39	1.000000	3.69434e-39	1.000000
rad70	3.45439e-39	1.000000	3.45439e-39	1.000000
rad31	2.94361e-39	1.000000	2.94361e-39	1.000000
rad47	2.67992e-39	1.000000	2.67992e-39	1.000000
rad14	9.70819e-41	1.000000	9.70819e-41	1.000000
Ph+MeAc	2.08608e-41	1.000000	2.08608e-41	1.000000
rad34	1.15471e-41	1.000000	1.15471e-41	1.000000
PAH10+CH3	4.60949e-42	1.000000	4.60949e-42	1.000000
rad54	9.09262e-43	1.000000	9.09262e-43	1.000000
rad65	3.16819e-43	1.000000	3.16819e-43	1.000000
rad19syn	1.95643e-43	1.000000	1.95643e-43	1.000000
PAH1+H	3.01887e-44	1.000000	3.01887e-44	1.000000
rad55	2.30521e-45	1.000000	2.30521e-45	1.000000
rad27	7.72713e-46	1.000000	7.72713e-46	1.000000

PhCCCH3+H	3.82770e-46	1.000000	3.82770e-46	1.000000
PhcycC3H3_A+H	1.11969e-46	1.000000	1.11969e-46	1.000000
rad5	2.10394e-47	1.000000	2.10394e-47	1.000000
rad62	4.64263e-52	1.000000	4.64263e-52	1.000000
rad43	5.09324e-55	1.000000	5.09324e-55	1.000000
rad42	8.66810e-57	1.000000	8.66810e-57	1.000000
rad41	3.99796e-60	1.000000	3.99796e-60	1.000000

100000000. Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17763e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999774	0.999774	0.999774	0.999774
rad21	0.000195292	0.999969	0.000195292	0.999969
rad18	3.04521e-05	1.000000	3.04521e-05	1.000000
Benzyl+C2H2	4.30192e-08	1.000000	0.00000	1.000000
rad22	1.51692e-08	1.000000	1.51692e-08	1.000000
rad24	1.07147e-09	1.000000	1.07147e-09	1.000000
Indene+H	5.70738e-10	1.000000	5.70738e-10	1.000000
rad45	3.02200e-11	1.000000	3.02201e-11	1.000000
rad11	2.06110e-11	1.000000	2.06110e-11	1.000000
rad36	5.29488e-12	1.000000	5.29488e-12	1.000000
rad23	1.68692e-15	1.000000	1.68692e-15	1.000000
rad8	6.42715e-16	1.000000	6.42715e-16	1.000000
rad30	4.65917e-17	1.000000	4.65917e-17	1.000000
rad6	1.89190e-17	1.000000	1.89190e-17	1.000000
rad15	6.59466e-18	1.000000	6.59466e-18	1.000000
PhCH2CCH+H	3.33954e-19	1.000000	3.33954e-19	1.000000
rad9	1.21487e-20	1.000000	1.21487e-20	1.000000
rad60syn	8.38300e-22	1.000000	8.38300e-22	1.000000
rad25	3.03535e-22	1.000000	3.03535e-22	1.000000
rad60anti	2.63153e-22	1.000000	2.63153e-22	1.000000
PhCHCCH2+H	4.10461e-23	1.000000	4.10461e-23	1.000000
rad28	3.12185e-23	1.000000	3.12185e-23	1.000000
rad35	6.84292e-24	1.000000	6.84292e-24	1.000000
PAH3+H	4.43817e-24	1.000000	4.43817e-24	1.000000
Ph+Allene	2.74802e-24	1.000000	2.74802e-24	1.000000
rad59	1.34038e-24	1.000000	1.34038e-24	1.000000
PAH7+H	7.16482e-25	1.000000	7.16482e-25	1.000000
rad13	1.25324e-25	1.000000	1.25324e-25	1.000000
rad38	1.03763e-25	1.000000	1.03763e-25	1.000000
rad7	3.82724e-26	1.000000	3.82724e-26	1.000000
rad26	1.63027e-26	1.000000	1.63027e-26	1.000000
rad46	1.78757e-27	1.000000	1.78757e-27	1.000000
rad33	1.09284e-27	1.000000	1.09284e-27	1.000000
PAH9+H	1.07108e-29	1.000000	1.07108e-29	1.000000
rad58	1.17684e-31	1.000000	1.17684e-31	1.000000
rad50	9.66065e-32	1.000000	9.66065e-32	1.000000
rad3	3.27637e-32	1.000000	3.27637e-32	1.000000
rad4	2.53087e-32	1.000000	2.53087e-32	1.000000
rad10	1.03578e-33	1.000000	1.03578e-33	1.000000
rad39	6.78917e-34	1.000000	6.78917e-34	1.000000
rad52	5.53547e-35	1.000000	5.53547e-35	1.000000
rad51	3.80629e-36	1.000000	3.80629e-36	1.000000
rad12	3.32778e-36	1.000000	3.32778e-36	1.000000
rad37	4.00935e-37	1.000000	4.00935e-37	1.000000
rad2	2.01633e-37	1.000000	2.01633e-37	1.000000
rad1	4.77728e-38	1.000000	4.77728e-38	1.000000
rad70	3.64605e-38	1.000000	3.64605e-38	1.000000
rad47	3.41346e-38	1.000000	3.41346e-38	1.000000
PhCCH+CH3	2.69313e-38	1.000000	2.69313e-38	1.000000
rad31	1.30044e-38	1.000000	1.30044e-38	1.000000
rad14	6.44285e-40	1.000000	6.44285e-40	1.000000
Ph+MeAc	1.79979e-40	1.000000	1.79979e-40	1.000000
rad34	1.35182e-40	1.000000	1.35182e-40	1.000000
PAH10+CH3	4.68923e-41	1.000000	4.68923e-41	1.000000
rad54	9.58789e-42	1.000000	9.58790e-42	1.000000
rad65	3.32747e-42	1.000000	3.32747e-42	1.000000
rad19syn	1.94248e-42	1.000000	1.94248e-42	1.000000
PAH1+H	3.53120e-43	1.000000	3.53120e-43	1.000000
rad55	2.77024e-44	1.000000	2.77024e-44	1.000000
rad27	8.53026e-45	1.000000	8.53026e-45	1.000000
PhCCCH3+H	3.83404e-45	1.000000	3.83404e-45	1.000000
PhcycC3H3_A+H	1.37116e-45	1.000000	1.37116e-45	1.000000
rad5	2.19615e-46	1.000000	2.19615e-46	1.000000
rad62	6.13121e-51	1.000000	6.13122e-51	1.000000

rad43	6.42093e-54	1.000000	6.42093e-54	1.000000
rad42	1.26236e-55	1.000000	1.26236e-55	1.000000
rad41	5.23621e-59	1.000000	5.23621e-59	1.000000

100000000. Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19452e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999746	0.999746	0.999746	0.999746
rad21	0.000219401	0.999965	0.000219401	0.999965
rad18	3.44692e-05	1.000000	3.44692e-05	1.000000
Benzyl+C2H2	6.21857e-08	1.000000	0.00000	1.000000
rad22	1.95679e-08	1.000000	1.95679e-08	1.000000
rad24	1.44441e-09	1.000000	1.44441e-09	1.000000
Indene+H	7.53726e-10	1.000000	7.53726e-10	1.000000
rad45	4.56774e-11	1.000000	4.56774e-11	1.000000
rad11	3.06974e-11	1.000000	3.06975e-11	1.000000
rad36	7.95222e-12	1.000000	7.95222e-12	1.000000
rad23	2.65511e-15	1.000000	2.65511e-15	1.000000
rad8	1.66950e-15	1.000000	1.66950e-15	1.000000
rad30	8.92293e-17	1.000000	8.92293e-17	1.000000
rad6	3.66274e-17	1.000000	3.66274e-17	1.000000
rad15	1.35357e-17	1.000000	1.35357e-17	1.000000
PhCH2CCH+H	1.31871e-18	1.000000	1.31871e-18	1.000000
rad9	4.20016e-20	1.000000	4.20016e-20	1.000000
rad60syn	2.46327e-21	1.000000	2.46327e-21	1.000000
rad60anti	8.03412e-22	1.000000	8.03412e-22	1.000000
rad25	7.70428e-22	1.000000	7.70428e-22	1.000000
PhCHCCH2+H	1.26524e-22	1.000000	1.26524e-22	1.000000
rad28	1.05675e-22	1.000000	1.05675e-22	1.000000
rad35	2.47579e-23	1.000000	2.47579e-23	1.000000
PAH3+H	1.86687e-23	1.000000	1.86687e-23	1.000000
Ph+Allene	1.02848e-23	1.000000	1.02848e-23	1.000000
rad59	5.49676e-24	1.000000	5.49676e-24	1.000000
PAH7+H	2.77840e-24	1.000000	2.77840e-24	1.000000
rad13	3.31851e-25	1.000000	3.31851e-25	1.000000
rad38	3.02042e-25	1.000000	3.02042e-25	1.000000
rad7	1.03498e-25	1.000000	1.03498e-25	1.000000
rad26	7.06291e-26	1.000000	7.06291e-26	1.000000
rad46	5.87278e-27	1.000000	5.87278e-27	1.000000
rad33	3.10858e-27	1.000000	3.10858e-27	1.000000
PAH9+H	3.15867e-29	1.000000	3.15867e-29	1.000000
rad58	9.28615e-31	1.000000	9.28615e-31	1.000000
rad50	5.28407e-31	1.000000	5.28407e-31	1.000000
rad3	1.27819e-31	1.000000	1.27819e-31	1.000000
rad4	9.85925e-32	1.000000	9.85925e-32	1.000000
rad10	5.70922e-33	1.000000	5.70922e-33	1.000000
rad39	3.84293e-33	1.000000	3.84293e-33	1.000000
rad52	4.19294e-34	1.000000	4.19294e-34	1.000000
rad51	3.47498e-35	1.000000	3.47498e-35	1.000000
rad12	2.02062e-35	1.000000	2.02062e-35	1.000000
rad37	2.62500e-36	1.000000	2.62500e-36	1.000000
rad2	1.12518e-36	1.000000	1.12518e-36	1.000000
rad47	3.63316e-37	1.000000	3.63316e-37	1.000000
rad70	3.19036e-37	1.000000	3.19036e-37	1.000000
rad1	2.65052e-37	1.000000	2.65052e-37	1.000000
PhCCH+CH3	1.82259e-37	1.000000	1.82259e-37	1.000000
rad31	5.52980e-38	1.000000	5.52980e-38	1.000000
rad14	4.02267e-39	1.000000	4.02267e-39	1.000000
Ph+MeAc	1.39994e-39	1.000000	1.39994e-39	1.000000
rad34	1.27965e-39	1.000000	1.27965e-39	1.000000
PAH10+CH3	4.00891e-40	1.000000	4.00891e-40	1.000000
rad54	8.61365e-41	1.000000	8.61365e-41	1.000000
rad65	2.93980e-41	1.000000	2.93980e-41	1.000000
rad19syn	1.66419e-41	1.000000	1.66419e-41	1.000000
PAH1+H	3.35163e-42	1.000000	3.35163e-42	1.000000
rad55	2.75922e-43	1.000000	2.75922e-43	1.000000
rad27	7.84548e-44	1.000000	7.84548e-44	1.000000
PhCCCH3+H	3.40538e-44	1.000000	3.40538e-44	1.000000
PhcycC3H3_A+H	1.38583e-44	1.000000	1.38583e-44	1.000000
rad5	1.93328e-45	1.000000	1.93328e-45	1.000000
rad62	6.69634e-50	1.000000	6.69634e-50	1.000000
rad43	6.51453e-53	1.000000	6.51453e-53	1.000000
rad42	1.49319e-54	1.000000	1.49319e-54	1.000000
rad41	5.47955e-58	1.000000	5.47955e-58	1.000000

100000000. Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.04141e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999714	0.999714	0.999714	0.999714
rad21	0.000246686	0.999961	0.000246686	0.999961
rad18	3.90494e-05	1.000000	3.90494e-05	1.000000
Benzyl+C2H2	8.92885e-08	1.000000	0.000000	1.000000
rad22	2.52719e-08	1.000000	2.52719e-08	1.000000
rad24	1.94829e-09	1.000000	1.94829e-09	1.000000
Indene+H	9.97425e-10	1.000000	9.97425e-10	1.000000
rad45	6.90218e-11	1.000000	6.90218e-11	1.000000
rad11	4.56240e-11	1.000000	4.56240e-11	1.000000
rad36	1.19456e-11	1.000000	1.19456e-11	1.000000
rad23	4.19136e-15	1.000000	4.19136e-15	1.000000
rad8	4.09594e-15	1.000000	4.09594e-15	1.000000
rad30	1.68181e-16	1.000000	1.68181e-16	1.000000
rad6	7.03901e-17	1.000000	7.03901e-17	1.000000
rad15	2.71769e-17	1.000000	2.71769e-17	1.000000
PhCH2CCH+H	4.76407e-18	1.000000	4.76407e-18	1.000000
rad9	1.35273e-19	1.000000	1.35273e-19	1.000000
rad60syn	6.85179e-21	1.000000	6.85179e-21	1.000000
rad60anti	2.31286e-21	1.000000	2.31286e-21	1.000000
rad25	1.90608e-21	1.000000	1.90608e-21	1.000000
PhCHCCH2+H	3.74473e-22	1.000000	3.74473e-22	1.000000
rad28	3.38116e-22	1.000000	3.38116e-22	1.000000
rad35	8.34261e-23	1.000000	8.34261e-23	1.000000
PAH3+H	7.22036e-23	1.000000	7.22036e-23	1.000000
Ph+Allene	3.62489e-23	1.000000	3.62489e-23	1.000000
rad59	2.07480e-23	1.000000	2.07480e-23	1.000000
PAH7+H	1.00696e-23	1.000000	1.00696e-23	1.000000
rad13	8.66746e-25	1.000000	8.66746e-25	1.000000
rad38	8.64875e-25	1.000000	8.64875e-25	1.000000
rad26	2.82723e-25	1.000000	2.82723e-25	1.000000
rad7	2.75840e-25	1.000000	2.75840e-25	1.000000
rad46	1.87414e-26	1.000000	1.87414e-26	1.000000
rad33	8.69261e-27	1.000000	8.69261e-27	1.000000
PAH9+H	9.17726e-29	1.000000	9.17726e-29	1.000000
rad58	6.30608e-30	1.000000	6.30608e-30	1.000000
rad50	2.69035e-30	1.000000	2.69035e-30	1.000000
rad3	4.84881e-31	1.000000	4.84881e-31	1.000000
rad4	3.73477e-31	1.000000	3.73477e-31	1.000000
rad10	2.89515e-32	1.000000	2.89515e-32	1.000000
rad39	2.02736e-32	1.000000	2.02736e-32	1.000000
rad52	2.87833e-33	1.000000	2.87833e-33	1.000000
rad51	2.80800e-34	1.000000	2.80800e-34	1.000000
rad12	1.11952e-34	1.000000	1.11952e-34	1.000000
rad37	1.55359e-35	1.000000	1.55359e-35	1.000000
rad2	5.96491e-36	1.000000	5.96491e-36	1.000000
rad47	3.33903e-36	1.000000	3.33903e-36	1.000000
rad70	2.39747e-36	1.000000	2.39747e-36	1.000000
rad1	1.39770e-36	1.000000	1.39770e-36	1.000000
PhCCH+CH3	1.14272e-36	1.000000	1.14272e-36	1.000000
rad31	2.26850e-37	1.000000	2.26850e-37	1.000000
rad14	2.35582e-38	1.000000	2.35582e-38	1.000000
rad34	1.03089e-38	1.000000	1.03089e-38	1.000000
Ph+MeAc	9.84302e-39	1.000000	9.84302e-39	1.000000
PAH10+CH3	2.96541e-39	1.000000	2.96541e-39	1.000000
rad54	6.71201e-40	1.000000	6.71201e-40	1.000000
rad65	2.25805e-40	1.000000	2.25805e-40	1.000000
rad19syn	1.24777e-40	1.000000	1.24777e-40	1.000000
PAH1+H	2.70960e-41	1.000000	2.70960e-41	1.000000
rad55	2.34067e-42	1.000000	2.34067e-42	1.000000
rad27	6.21796e-43	1.000000	6.21796e-43	1.000000
PhCCCH3+H	2.69671e-43	1.000000	2.69671e-43	1.000000
PhcycC3H3_A+H	1.18986e-43	1.000000	1.18986e-43	1.000000
rad5	1.47504e-44	1.000000	1.47504e-44	1.000000
rad62	6.22755e-49	1.000000	6.22755e-49	1.000000
rad43	5.61606e-52	1.000000	5.61606e-52	1.000000
rad42	1.48968e-53	1.000000	1.48968e-53	1.000000
rad41	4.86531e-57	1.000000	4.86531e-57	1.000000

100000000. Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 1.89357e-23 (1.00) 1.89357e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999678	0.999678	0.999678	0.999678
rad21	0.000277564	0.999956	0.000277564	0.999956
rad18	4.42705e-05	1.000000	4.42705e-05	1.000000
Benzyl+C2H2	1.27341e-07	1.000000	0.00000	1.000000
rad22	3.26658e-08	1.000000	3.26658e-08	1.000000
rad24	2.62801e-09	1.000000	2.62801e-09	1.000000
Indene+H	1.32205e-09	1.000000	1.32205e-09	1.000000
rad45	1.04196e-10	1.000000	1.04196e-10	1.000000
rad11	6.76292e-11	1.000000	6.76292e-11	1.000000
rad36	1.79361e-11	1.000000	1.79361e-11	1.000000
rad8	9.54953e-15	1.000000	9.54953e-15	1.000000
rad23	6.63124e-15	1.000000	6.63124e-15	1.000000
rad30	3.12213e-16	1.000000	3.12213e-16	1.000000
rad6	1.34193e-16	1.000000	1.34193e-16	1.000000
rad15	5.34592e-17	1.000000	5.34592e-17	1.000000
PhCH2CCH+H	1.58932e-17	1.000000	1.58932e-17	1.000000
rad9	4.08870e-19	1.000000	4.08870e-19	1.000000
rad60syn	1.81461e-20	1.000000	1.81461e-20	1.000000
rad60anti	6.31784e-21	1.000000	6.31784e-21	1.000000
rad25	4.60238e-21	1.000000	4.60238e-21	1.000000
PhCHCCH2+H	1.06735e-21	1.000000	1.06735e-21	1.000000
rad28	1.02807e-21	1.000000	1.02807e-21	1.000000
rad35	2.63766e-22	1.000000	2.63766e-22	1.000000
PAH3+H	2.58959e-22	1.000000	2.58959e-22	1.000000
Ph+Allene	1.20951e-22	1.000000	1.20951e-22	1.000000
rad59	7.27028e-23	1.000000	7.27029e-23	1.000000
PAH7+H	3.43308e-23	1.000000	3.43308e-23	1.000000
rad38	2.43975e-24	1.000000	2.43975e-24	1.000000
rad13	2.23170e-24	1.000000	2.23170e-24	1.000000
rad26	1.05376e-24	1.000000	1.05376e-24	1.000000
rad7	7.24155e-25	1.000000	7.24155e-25	1.000000
rad46	5.82824e-26	1.000000	5.82824e-26	1.000000
rad33	2.38860e-26	1.000000	2.38860e-26	1.000000
PAH9+H	2.62745e-28	1.000000	2.62746e-28	1.000000
rad58	3.72348e-29	1.000000	3.72348e-29	1.000000
rad50	1.28507e-29	1.000000	1.28507e-29	1.000000
rad3	1.78655e-30	1.000000	1.78655e-30	1.000000
rad4	1.37424e-30	1.000000	1.37424e-30	1.000000
rad10	1.35666e-31	1.000000	1.35666e-31	1.000000
rad39	9.99465e-32	1.000000	9.99465e-32	1.000000
rad52	1.80590e-32	1.000000	1.80590e-32	1.000000
rad51	2.02877e-33	1.000000	2.02877e-33	1.000000
rad12	5.67914e-34	1.000000	5.67914e-34	1.000000
rad37	8.34145e-35	1.000000	8.34145e-35	1.000000
rad2	2.99015e-35	1.000000	2.99015e-35	1.000000
rad47	2.68492e-35	1.000000	2.68492e-35	1.000000
rad70	1.56201e-35	1.000000	1.56201e-35	1.000000
rad1	6.97353e-36	1.000000	6.97353e-36	1.000000
PhCCH+CH3	6.61236e-36	1.000000	6.61236e-36	1.000000
rad31	8.98920e-37	1.000000	8.98920e-37	1.000000
rad14	1.28786e-37	1.000000	1.28786e-37	1.000000
rad34	7.12353e-38	1.000000	7.12353e-38	1.000000
Ph+MeAc	6.25333e-38	1.000000	6.25333e-38	1.000000
PAH10+CH3	1.91366e-38	1.000000	1.91366e-38	1.000000
rad54	4.57114e-39	1.000000	4.57115e-39	1.000000
rad65	1.52607e-39	1.000000	1.52607e-39	1.000000
rad19syn	8.23604e-40	1.000000	8.23604e-40	1.000000
PAH1+H	1.88168e-40	1.000000	1.88168e-40	1.000000
rad55	1.70866e-41	1.000000	1.70866e-41	1.000000
rad27	4.26966e-42	1.000000	4.26966e-42	1.000000
PhCCCH3+H	1.90561e-42	1.000000	1.90561e-42	1.000000
PhcycC3H3_A+H	8.76906e-43	1.000000	8.76906e-43	1.000000
rad5	9.82483e-44	1.000000	9.82483e-44	1.000000
rad62	4.98217e-48	1.000000	4.98217e-48	1.000000
rad43	4.14228e-51	1.000000	4.14228e-51	1.000000
rad42	1.26705e-52	1.000000	1.26705e-52	1.000000
rad41	3.68295e-56	1.000000	3.68295e-56	1.000000

100000000. Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.20015e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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rad20	0.999637	0.999637	0.999637	0.999637
rad21	0.000312496	0.999949	0.000312496	0.999949
rad18	5.02196e-05	1.000000	5.02196e-05	1.000000
Benzyl+C2H2	1.80388e-07	1.000000	0.000000	1.000000
rad22	4.22439e-08	1.000000	4.22439e-08	1.000000
rad24	3.54311e-09	1.000000	3.54311e-09	1.000000
Indene+H	1.75440e-09	1.000000	1.75440e-09	1.000000
rad45	1.57046e-10	1.000000	1.57046e-10	1.000000
rad11	9.99361e-11	1.000000	9.99362e-11	1.000000
rad36	2.69019e-11	1.000000	2.69019e-11	1.000000
rad8	2.12693e-14	1.000000	2.12693e-14	1.000000
rad23	1.05079e-14	1.000000	1.05079e-14	1.000000
rad30	5.71235e-16	1.000000	5.71235e-16	1.000000
rad6	2.53655e-16	1.000000	2.53655e-16	1.000000
rad15	1.03164e-16	1.000000	1.03164e-16	1.000000
PhCH2CCH+H	4.93508e-17	1.000000	4.93508e-17	1.000000
rad9	1.16719e-18	1.000000	1.16719e-18	1.000000
rad60syn	4.59791e-20	1.000000	4.59792e-20	1.000000
rad60anti	1.64625e-20	1.000000	1.64625e-20	1.000000
rad25	1.08576e-20	1.000000	1.08576e-20	1.000000
rad28	2.98400e-21	1.000000	2.98400e-21	1.000000
PhCHCCH2+H	2.93705e-21	1.000000	2.93706e-21	1.000000
PAH3+H	8.67371e-22	1.000000	8.67372e-22	1.000000
rad35	7.87321e-22	1.000000	7.87321e-22	1.000000
Ph+Allene	3.83705e-22	1.000000	3.83705e-22	1.000000
rad59	2.38194e-22	1.000000	2.38194e-22	1.000000
PAH7+H	1.10699e-22	1.000000	1.10699e-22	1.000000
rad38	6.79132e-24	1.000000	6.79132e-24	1.000000
rad13	5.66189e-24	1.000000	5.66189e-24	1.000000
rad26	3.68033e-24	1.000000	3.68033e-24	1.000000
rad7	1.87180e-24	1.000000	1.87180e-24	1.000000
rad46	1.77167e-25	1.000000	1.77167e-25	1.000000
rad33	6.44707e-26	1.000000	6.44707e-26	1.000000
PAH9+H	7.41519e-28	1.000000	7.41519e-28	1.000000
rad58	1.93706e-28	1.000000	1.93706e-28	1.000000
rad50	5.79619e-29	1.000000	5.79619e-29	1.000000
rad3	6.38113e-30	1.000000	6.38113e-30	1.000000
rad4	4.90256e-30	1.000000	4.90256e-30	1.000000
rad10	5.89573e-31	1.000000	5.89573e-31	1.000000
rad39	4.61737e-31	1.000000	4.61737e-31	1.000000
rad52	1.04270e-31	1.000000	1.04270e-31	1.000000
rad51	1.32244e-32	1.000000	1.32244e-32	1.000000
rad12	2.64702e-33	1.000000	2.64703e-33	1.000000
rad37	4.08069e-34	1.000000	4.08069e-34	1.000000
rad47	1.91541e-34	1.000000	1.91541e-34	1.000000
rad2	1.41102e-34	1.000000	1.41102e-34	1.000000
rad70	8.94173e-35	1.000000	8.94173e-35	1.000000
PhCCH+CH3	3.52300e-35	1.000000	3.52300e-35	1.000000
rad1	3.27736e-35	1.000000	3.27736e-35	1.000000
rad31	3.44151e-36	1.000000	3.44151e-36	1.000000
rad14	6.54628e-37	1.000000	6.54628e-37	1.000000
rad34	4.28881e-37	1.000000	4.28881e-37	1.000000
Ph+MeAc	3.59519e-37	1.000000	3.59519e-37	1.000000
PAH10+CH3	1.09018e-37	1.000000	1.09018e-37	1.000000
rad54	2.74505e-38	1.000000	2.74505e-38	1.000000
rad65	9.21283e-39	1.000000	9.21283e-39	1.000000
rad19syn	4.82036e-39	1.000000	4.82036e-39	1.000000
PAH1+H	1.13998e-39	1.000000	1.13998e-39	1.000000
rad55	1.08632e-40	1.000000	1.08632e-40	1.000000
rad27	2.57252e-41	1.000000	2.57252e-41	1.000000
PhCCCH3+H	1.20614e-41	1.000000	1.20614e-41	1.000000
PhcycC3H3_A+H	5.61637e-42	1.000000	5.61637e-42	1.000000
rad5	5.77734e-43	1.000000	5.77734e-43	1.000000
rad62	3.47214e-47	1.000000	3.47214e-47	1.000000
rad43	2.65695e-50	1.000000	2.65696e-50	1.000000
rad42	9.32155e-52	1.000000	9.32156e-52	1.000000
rad41	2.41798e-55	1.000000	2.41798e-55	1.000000

100000000. Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17740e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999343	0.999343	0.999344	0.999344
rad21	0.000560862	0.999904	0.000560862	0.999905
rad18	9.44830e-05	0.999998	9.44831e-05	0.999999
Benzyl+C2H2	1.05339e-06	0.999999	0.000000	0.999999

rad22	1.95620e-07	1.000000	1.95620e-07	1.000000
rad24	1.96244e-08	1.000000	1.96244e-08	1.000000
Indene+H	9.39514e-09	1.000000	9.39515e-09	1.000000
rad45	2.31574e-09	1.000000	2.31575e-09	1.000000
rad11	9.89839e-10	1.000000	9.89840e-10	1.000000
rad36	2.82668e-10	1.000000	2.82669e-10	1.000000
rad8	4.77162e-13	1.000000	4.77162e-13	1.000000
rad9	3.30623e-13	1.000000	3.30624e-13	1.000000
rad23	2.86013e-13	1.000000	2.86013e-13	1.000000
rad6	2.21021e-14	1.000000	2.21021e-14	1.000000
rad30	2.05683e-14	1.000000	2.05684e-14	1.000000
PhCH2CCH+H	1.81270e-14	1.000000	1.81271e-14	1.000000
rad15	5.10585e-15	1.000000	5.10586e-15	1.000000
rad60syn	1.36683e-17	1.000000	1.36683e-17	1.000000
rad28	6.75910e-18	1.000000	6.75910e-18	1.000000
rad60anti	6.02022e-18	1.000000	6.02022e-18	1.000000
PhCHCCH2+H	5.44095e-18	1.000000	5.44096e-18	1.000000
rad25	5.34497e-18	1.000000	5.34497e-18	1.000000
PAH3+H	2.75471e-18	1.000000	2.75472e-18	1.000000
rad12	1.88174e-18	1.000000	1.88174e-18	1.000000
Ph+Allene	1.66631e-18	1.000000	1.66631e-18	1.000000
rad35	8.03065e-19	1.000000	8.03066e-19	1.000000
PAH7+H	6.46004e-19	1.000000	6.46004e-19	1.000000
rad59	5.28839e-19	1.000000	5.28839e-19	1.000000
rad38	8.00124e-20	1.000000	8.00125e-20	1.000000
rad26	3.93271e-20	1.000000	3.93271e-20	1.000000
rad13	1.06357e-20	1.000000	1.06357e-20	1.000000
rad46	6.43797e-21	1.000000	6.43798e-21	1.000000
rad7	4.28554e-21	1.000000	4.28554e-21	1.000000
rad19anti	1.37099e-21	1.000000	1.37099e-21	1.000000
rad19syn	1.34387e-21	1.000000	1.34387e-21	1.000000
rad50	2.21861e-22	1.000000	2.21861e-22	1.000000
rad33	2.05004e-22	1.000000	2.05004e-22	1.000000
rad58	7.85613e-23	1.000000	7.85614e-23	1.000000
PAH9+H	6.67905e-23	1.000000	6.67905e-23	1.000000
rad39	1.48723e-23	1.000000	1.48723e-23	1.000000
rad51	8.60430e-24	1.000000	8.60431e-24	1.000000
rad52	7.20634e-24	1.000000	7.20635e-24	1.000000
rad47	6.06867e-24	1.000000	6.06868e-24	1.000000
rad2	2.47957e-24	1.000000	2.47957e-24	1.000000
rad5	1.19292e-24	1.000000	1.19292e-24	1.000000
rad3	5.67900e-25	1.000000	5.67901e-25	1.000000
rad1	5.52966e-25	1.000000	5.52966e-25	1.000000
rad4	4.32756e-25	1.000000	4.32756e-25	1.000000
rad10	2.13752e-25	1.000000	2.13753e-25	1.000000
rad67	1.97354e-25	1.000000	1.97354e-25	1.000000
rad70	8.03095e-27	1.000000	8.03096e-27	1.000000
PhCCH+CH3	1.91044e-27	1.000000	1.91044e-27	1.000000
rad37	1.73250e-27	1.000000	1.73250e-27	1.000000
rad73	9.55887e-28	1.000000	9.55888e-28	1.000000
rad65	5.93904e-28	1.000000	5.93904e-28	1.000000
rad34	5.02188e-28	1.000000	5.02188e-28	1.000000
rad71	4.31416e-28	1.000000	4.31416e-28	1.000000
Ph+MeAc	1.48410e-28	1.000000	1.48410e-28	1.000000
PAH10+CH3	9.69287e-29	1.000000	9.69288e-29	1.000000
PhCCCH3+H	6.75116e-29	1.000000	6.75117e-29	1.000000
PAH1+H	4.02527e-29	1.000000	4.02527e-29	1.000000
rad14	1.98475e-29	1.000000	1.98475e-29	1.000000
rad54	6.43184e-30	1.000000	6.43185e-30	1.000000
rad27	5.34294e-30	1.000000	5.34294e-30	1.000000
rad72	1.22117e-30	1.000000	1.22117e-30	1.000000
rad31	5.58825e-31	1.000000	5.58825e-31	1.000000
rad68syn	4.66793e-31	1.000000	4.66793e-31	1.000000
rad64	3.29925e-31	1.000000	3.29925e-31	1.000000
rad68anti	3.17528e-31	1.000000	3.17528e-31	1.000000
PAH8+H	2.15608e-31	1.000000	2.15609e-31	1.000000
rad55	1.87758e-31	1.000000	1.87758e-31	1.000000
PhcycC3H3_A+H	6.94419e-32	1.000000	6.94420e-32	1.000000
rad40syn	4.84426e-32	1.000000	4.84426e-32	1.000000
rad40anti	2.14009e-32	1.000000	2.14010e-32	1.000000
rad61	1.56200e-32	1.000000	1.56200e-32	1.000000
rad62	1.31310e-32	1.000000	1.31310e-32	1.000000
rad53	2.07839e-33	1.000000	2.07839e-33	1.000000
rad43	7.41508e-34	1.000000	7.41509e-34	1.000000
rad42	6.14677e-34	1.000000	6.14678e-34	1.000000
rad56	4.28263e-34	1.000000	4.28264e-34	1.000000
rad41	2.86173e-35	1.000000	2.86173e-35	1.000000

100000000. Pa, 310.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.44453e-22 (1.00)	2.44453e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999538	0.999538	0.999539	0.999539
rad21	0.000396646	0.999935	0.000396646	0.999936
rad18	6.47037e-05	0.999999	6.47037e-05	1.00000
Benzyl+C2H2	3.54785e-07	1.000000	0.00000	1.00000
rad22	7.06615e-08	1.000000	7.06615e-08	1.00000
rad24	6.41841e-09	1.000000	6.41841e-09	1.00000
Indene+H	3.09528e-09	1.000000	3.09529e-09	1.00000
rad45	3.54276e-10	1.000000	3.54276e-10	1.00000
rad11	2.15869e-10	1.000000	2.15869e-10	1.00000
rad36	6.02017e-11	1.000000	6.02017e-11	1.00000
rad8	9.36057e-14	1.000000	9.36057e-14	1.00000
rad23	2.64511e-14	1.000000	2.64512e-14	1.00000
rad30	1.83494e-15	1.000000	1.83494e-15	1.00000
rad6	8.82113e-16	1.000000	8.82114e-16	1.00000
PhCH2CCH+H	3.93848e-16	1.000000	3.93848e-16	1.00000
rad15	3.64351e-16	1.000000	3.64352e-16	1.00000
rad9	8.18036e-18	1.000000	8.18036e-18	1.00000
rad60syn	2.62629e-19	1.000000	2.62629e-19	1.00000
rad60anti	9.86929e-20	1.000000	9.86929e-20	1.00000
rad25	5.65659e-20	1.000000	5.65659e-20	1.00000
rad28	2.21797e-20	1.000000	2.21797e-20	1.00000
PhCHCCH2+H	2.01601e-20	1.000000	2.01601e-20	1.00000
PAH3+H	8.10417e-21	1.000000	8.10418e-21	1.00000
rad35	6.01928e-21	1.000000	6.01928e-21	1.00000
Ph+Allene	3.36098e-21	1.000000	3.36098e-21	1.00000
rad59	2.13743e-21	1.000000	2.13743e-21	1.00000
PAH7+H	9.90074e-22	1.000000	9.90074e-22	1.00000
rad38	5.09005e-23	1.000000	5.09005e-23	1.00000
rad26	3.76756e-23	1.000000	3.76757e-23	1.00000
rad13	3.47824e-23	1.000000	3.47824e-23	1.00000
rad7	1.19082e-23	1.000000	1.19082e-23	1.00000
rad46	1.54607e-24	1.000000	1.54607e-24	1.00000
rad33	4.43921e-25	1.000000	4.43921e-25	1.00000
PAH9+H	5.66725e-27	1.000000	5.66726e-27	1.00000
rad58	3.74830e-27	1.000000	3.74830e-27	1.00000
rad50	1.01205e-27	1.000000	1.01205e-27	1.00000
rad3	7.32952e-29	1.000000	7.32952e-29	1.00000
rad4	5.62088e-29	1.000000	5.62088e-29	1.00000
rad10	8.98569e-30	1.000000	8.98569e-30	1.00000
rad39	8.21178e-30	1.000000	8.21179e-30	1.00000
rad52	2.76019e-30	1.000000	2.76019e-30	1.00000
rad51	4.23877e-31	1.000000	4.23877e-31	1.00000
rad12	4.52182e-32	1.000000	4.52182e-32	1.00000
rad37	7.52006e-33	1.000000	7.52006e-33	1.00000
rad47	7.09586e-33	1.000000	7.09586e-33	1.00000
rad2	2.58401e-33	1.000000	2.58401e-33	1.00000
rad70	2.07961e-33	1.000000	2.07961e-33	1.00000
PhCCH+CH3	7.78557e-34	1.000000	7.78557e-34	1.00000
rad1	5.96700e-34	1.000000	5.96700e-34	1.00000
rad31	4.53165e-35	1.000000	4.53165e-35	1.00000
rad14	1.34713e-35	1.000000	1.34713e-35	1.00000
rad34	1.08250e-35	1.000000	1.08250e-35	1.00000
Ph+MeAc	8.90435e-36	1.000000	8.90436e-36	1.00000
PAH10+CH3	2.53714e-36	1.000000	2.53714e-36	1.00000
rad54	7.00733e-37	1.000000	7.00733e-37	1.00000
rad65	2.51944e-37	1.000000	2.51944e-37	1.00000
rad19syn	1.18272e-37	1.000000	1.18272e-37	1.00000
PAH1+H	2.92371e-38	1.000000	2.92372e-38	1.00000
rad55	3.02313e-39	1.000000	3.02313e-39	1.00000
rad27	6.59979e-40	1.000000	6.59980e-40	1.00000
PhCCCH3+H	3.53871e-40	1.000000	3.53871e-40	1.00000
PhcycC3H3_A+H	1.57753e-40	1.000000	1.57753e-40	1.00000
rad5	1.43099e-41	1.000000	1.43099e-41	1.00000
rad62	1.16385e-45	1.000000	1.16385e-45	1.00000
rad43	7.58239e-49	1.000000	7.58239e-49	1.00000
rad42	3.42586e-50	1.000000	3.42587e-50	1.00000
rad41	7.18471e-54	1.000000	7.18471e-54	1.00000

100000000. Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.60269e-20 (1.00)	3.60261e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.997743	0.997743	0.997763	0.997763
rad21	0.00189055	0.999634	0.00189059	0.999654
rad18	0.000343633	0.999977	0.000343640	0.999997
Benzyl+C2H2	2.00243e-05	0.999997	0.00000	0.999997
rad22	2.58875e-06	1.000000	2.58880e-06	1.000000
rad24	3.15151e-07	1.00000	3.15157e-07	1.00000
Indene+H	1.66294e-07	1.00000	1.66297e-07	1.00000
rad45	1.10214e-07	1.00000	1.10216e-07	1.00000
rad11	3.62749e-08	1.00000	3.62756e-08	1.00000
rad36	1.11129e-08	1.00000	1.11132e-08	1.00000
rad23	8.72973e-11	1.00000	8.72991e-11	1.00000
rad9	8.48005e-11	1.00000	8.48022e-11	1.00000
rad8	6.17404e-11	1.00000	6.17416e-11	1.00000
PhCH2CCH+H	1.30678e-11	1.00000	1.30680e-11	1.00000
rad6	6.22000e-12	1.00000	6.22012e-12	1.00000
rad30	2.79525e-12	1.00000	2.79531e-12	1.00000
rad15	8.81750e-13	1.00000	8.81768e-13	1.00000
rad38	2.73863e-14	1.00000	2.73869e-14	1.00000
rad28	1.35668e-14	1.00000	1.35671e-14	1.00000
PhCHCCH2+H	1.06623e-14	1.00000	1.06625e-14	1.00000
rad60syn	7.24333e-15	1.00000	7.24348e-15	1.00000
rad46	7.02768e-15	1.00000	7.02782e-15	1.00000
Ph+Allene	6.17266e-15	1.00000	6.17278e-15	1.00000
rad25	4.79774e-15	1.00000	4.79784e-15	1.00000
PAH9+H	4.72327e-15	1.00000	4.72337e-15	1.00000
PAH3+H	4.26210e-15	1.00000	4.26218e-15	1.00000
rad50	4.06330e-15	1.00000	4.06338e-15	1.00000
PAH7+H	3.89715e-15	1.00000	3.89723e-15	1.00000
rad60anti	3.53051e-15	1.00000	3.53058e-15	1.00000
rad35	1.53861e-15	1.00000	1.53864e-15	1.00000
rad12	1.45235e-15	1.00000	1.45238e-15	1.00000
rad39	1.24639e-15	1.00000	1.24641e-15	1.00000
rad51	1.00072e-15	1.00000	1.00074e-15	1.00000
rad59	7.37427e-16	1.00000	7.37442e-16	1.00000
rad52	3.33581e-16	1.00000	3.33588e-16	1.00000
rad26	3.30873e-16	1.00000	3.30880e-16	1.00000
rad47	1.27580e-16	1.00000	1.27583e-16	1.00000
rad13	3.82574e-17	1.00000	3.82581e-17	1.00000
rad7	2.89283e-17	1.00000	2.89289e-17	1.00000
rad71	1.64340e-17	1.00000	1.64343e-17	1.00000
rad73	1.33486e-17	1.00000	1.33488e-17	1.00000
rad10	1.12966e-17	1.00000	1.12969e-17	1.00000
rad19anti	6.95639e-18	1.00000	6.95653e-18	1.00000
PAH10+CH3	6.39992e-18	1.00000	6.40005e-18	1.00000
PhCCH+CH3	6.25466e-18	1.00000	6.25479e-18	1.00000
PAH1+H	5.57905e-18	1.00000	5.57916e-18	1.00000
rad65	4.26053e-18	1.00000	4.26062e-18	1.00000
rad37	3.20674e-18	1.00000	3.20680e-18	1.00000
Ph+MeAc	2.12750e-18	1.00000	2.12754e-18	1.00000
rad19syn	2.10036e-18	1.00000	2.10041e-18	1.00000
rad70	1.89215e-18	1.00000	1.89219e-18	1.00000
rad2	1.44141e-18	1.00000	1.44144e-18	1.00000
rad33	8.73579e-19	1.00000	8.73596e-19	1.00000
rad58	8.20392e-19	1.00000	8.20408e-19	1.00000
PhCCCH3+H	5.38371e-19	1.00000	5.38382e-19	1.00000
rad34	4.89792e-19	1.00000	4.89801e-19	1.00000
rad72	4.40243e-19	1.00000	4.40252e-19	1.00000
rad3	3.88163e-19	1.00000	3.88171e-19	1.00000
rad1	3.57580e-19	1.00000	3.57587e-19	1.00000
rad4	3.05575e-19	1.00000	3.05581e-19	1.00000
rad67	1.19455e-19	1.00000	1.19458e-19	1.00000
PAH8+H	1.15649e-19	1.00000	1.15652e-19	1.00000
rad64	1.03792e-19	1.00000	1.03794e-19	1.00000
rad14	5.22153e-20	1.00000	5.22164e-20	1.00000
rad68syn	3.75783e-20	1.00000	3.75790e-20	1.00000
rad54	2.78892e-20	1.00000	2.78898e-20	1.00000
rad62	2.63517e-20	1.00000	2.63522e-20	1.00000
rad68anti	2.44583e-20	1.00000	2.44588e-20	1.00000
PhcycC3H3_A+H	2.06303e-20	1.00000	2.06307e-20	1.00000
rad5	1.50108e-20	1.00000	1.50111e-20	1.00000
rad40syn	1.38475e-20	1.00000	1.38477e-20	1.00000
rad61	1.18842e-20	1.00000	1.18845e-20	1.00000
rad40anti	8.13625e-21	1.00000	8.13641e-21	1.00000
rad27	3.36188e-21	1.00000	3.36195e-21	1.00000
rad42	2.39845e-21	1.00000	2.39850e-21	1.00000
rad43	2.16130e-21	1.00000	2.16134e-21	1.00000
rad55	2.13837e-21	1.00000	2.13841e-21	1.00000
rad56	7.26755e-22	1.00000	7.26770e-22	1.00000

rad53	6.67492e-22	1.00000	6.67506e-22	1.00000
rad41	1.82294e-22	1.00000	1.82297e-22	1.00000
rad31	1.88222e-24	1.00000	1.88226e-24	1.00000

100000000. Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.22559e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.992074	0.992074	0.992365	0.992365
rad21	0.00634359	0.998418	0.00634544	0.998710
rad18	0.00124141	0.999659	0.00124178	0.999952
Benzyl+C2H2	0.000292689	0.999952	0.00000	0.999952
rad22	3.51056e-05	0.999987	3.51159e-05	0.999987
rad45	4.16053e-06	0.999991	4.16175e-06	0.999991
rad24	3.90474e-06	0.999995	3.90588e-06	0.999995
Indene+H	3.13509e-06	0.999998	3.13601e-06	0.999999
rad11	1.27057e-06	0.999999	1.27094e-06	1.000000
rad36	3.86226e-07	1.000000	3.86339e-07	1.000000
rad23	1.16388e-07	1.000000	1.16422e-07	1.000000
rad9	1.02556e-08	1.000000	1.02586e-08	1.000000
PhCH2CCH+H	4.18086e-09	1.000000	4.18209e-09	1.000000
rad8	2.98794e-09	1.000000	2.98882e-09	1.000000
rad6	2.04979e-09	1.000000	2.05039e-09	1.000000
rad38	1.10318e-09	1.000000	1.10350e-09	1.000000
PAH9+H	7.84850e-10	1.000000	7.85080e-10	1.000000
rad50	4.13390e-10	1.000000	4.13511e-10	1.000000
rad46	3.84842e-10	1.000000	3.84955e-10	1.000000
rad30	3.24362e-10	1.000000	3.24457e-10	1.000000
PAH7+H	2.94559e-10	1.000000	2.94645e-10	1.000000
rad28	1.72387e-10	1.000000	1.72437e-10	1.000000
rad39	1.71794e-10	1.000000	1.71845e-10	1.000000
Ph+Allene	1.71541e-10	1.000000	1.71591e-10	1.000000
rad51	1.36761e-10	1.000000	1.36801e-10	1.000000
rad15	1.25240e-10	1.000000	1.25277e-10	1.000000
PhCHCCH2+H	1.18843e-10	1.000000	1.18878e-10	1.000000
rad35	1.10415e-10	1.000000	1.10447e-10	1.000000
rad52	3.87722e-11	1.000000	3.87836e-11	1.000000
rad47	3.36163e-11	1.000000	3.36262e-11	1.000000
rad26	1.71300e-11	1.000000	1.71350e-11	1.000000
PAH3+H	8.59472e-12	1.000000	8.59723e-12	1.000000
rad25	4.62469e-12	1.000000	4.62604e-12	1.000000
rad71	3.74201e-12	1.000000	3.74311e-12	1.000000
rad60syn	3.00984e-12	1.000000	3.01072e-12	1.000000
rad73	2.81557e-12	1.000000	2.81639e-12	1.000000
rad7	2.66468e-12	1.000000	2.66546e-12	1.000000
PAH10+CH3	2.46182e-12	1.000000	2.46254e-12	1.000000
rad10	2.42524e-12	1.000000	2.42595e-12	1.000000
PAH1+H	2.08096e-12	1.000000	2.08157e-12	1.000000
PhCCH+CH3	2.03156e-12	1.000000	2.03216e-12	1.000000
rad60anti	1.62656e-12	1.000000	1.62703e-12	1.000000
rad65	1.20163e-12	1.000000	1.20198e-12	1.000000
rad19anti	1.06224e-12	1.000000	1.06255e-12	1.000000
rad59	1.04878e-12	1.000000	1.04909e-12	1.000000
rad37	1.03579e-12	1.000000	1.03609e-12	1.000000
Ph+MeAc	9.54740e-13	1.000000	9.55020e-13	1.000000
rad12	6.10354e-13	1.000000	6.10532e-13	1.000000
rad13	4.88894e-13	1.000000	4.89037e-13	1.000000
rad70	4.75321e-13	1.000000	4.75460e-13	1.000000
rad2	3.21539e-13	1.000000	3.21633e-13	1.000000
PhCCCH3+H	2.75714e-13	1.000000	2.75794e-13	1.000000
rad34	1.32689e-13	1.000000	1.32728e-13	1.000000
rad72	1.15171e-13	1.000000	1.15205e-13	1.000000
rad1	9.84605e-14	1.000000	9.84894e-14	1.000000
rad67	6.35443e-14	1.000000	6.35629e-14	1.000000
rad19syn	5.36940e-14	1.000000	5.37097e-14	1.000000
rad58	5.32798e-14	1.000000	5.32954e-14	1.000000
PAH8+H	4.34996e-14	1.000000	4.35124e-14	1.000000
rad64	4.04854e-14	1.000000	4.04973e-14	1.000000
rad3	3.84324e-14	1.000000	3.84437e-14	1.000000
rad4	3.16942e-14	1.000000	3.17035e-14	1.000000
rad54	1.36491e-14	1.000000	1.36531e-14	1.000000
PhcycC3H3_A+H	1.30212e-14	1.000000	1.30250e-14	1.000000
rad68syn	1.24523e-14	1.000000	1.24560e-14	1.000000
rad62	1.19381e-14	1.000000	1.19416e-14	1.000000
rad33	9.39395e-15	1.000000	9.39670e-15	1.000000
rad68anti	8.08518e-15	1.000000	8.08754e-15	1.000000

rad14	5.93533e-15	1.000000	5.93707e-15	1.00000
rad61	5.31858e-15	1.000000	5.32014e-15	1.00000
rad40syn	4.96050e-15	1.000000	4.96195e-15	1.00000
rad40anti	2.97635e-15	1.000000	2.97722e-15	1.00000
rad5	1.49486e-15	1.000000	1.49530e-15	1.00000
rad42	1.16122e-15	1.000000	1.16156e-15	1.00000
rad43	1.11389e-15	1.000000	1.11422e-15	1.00000
rad55	1.07359e-15	1.000000	1.07390e-15	1.00000
rad27	6.13396e-16	1.000000	6.13575e-16	1.00000
rad56	4.16495e-16	1.000000	4.16617e-16	1.00000
rad53	3.67337e-16	1.000000	3.67444e-16	1.00000
rad41	1.00390e-16	1.000000	1.00420e-16	1.00000
rad31	3.33524e-18	1.000000	3.33622e-18	1.00000

100000000. Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.36947e-17 (1.00)	1.36393e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.969802	0.969802	0.973741	0.973741
rad21	0.0207797	0.990582	0.0208641	0.994605
rad18	0.00453274	0.995114	0.00455115	0.999156
Benzyl+C2H2	0.000404484	0.999159	0.000000	0.999156
rad22	0.000528057	0.999687	0.000530201	0.999686
rad45	0.000123383	0.999811	0.000123884	0.999810
Indene+H	7.65438e-05	0.999887	7.68547e-05	0.999887
rad11	4.85126e-05	0.999936	4.87096e-05	0.999936
rad24	3.81396e-05	0.999974	3.82945e-05	0.999974
rad36	1.14607e-05	0.999985	1.15073e-05	0.999986
rad23	1.10061e-05	0.999996	1.10508e-05	0.999997
rad9	3.7776e-07	0.999997	9.41585e-07	0.999998
PhCH2CCH+H	7.59236e-07	0.999998	7.62320e-07	0.999998
rad6	6.62760e-07	0.999999	6.65452e-07	0.999999
rad38	1.61427e-07	0.999999	1.62083e-07	0.999999
PAH9+H	1.37760e-07	0.999999	1.38319e-07	0.999999
rad8	7.48950e-08	0.999999	7.51991e-08	0.999999
rad50	6.63347e-08	0.999999	6.66041e-08	1.000000
Ph+Allene	6.00745e-08	0.999999	6.03185e-08	1.000000
rad46	5.89039e-08	0.999999	5.91431e-08	1.000000
PAH7+H	5.09445e-08	0.999999	5.11514e-08	1.000000
PhCHCCH2+H	4.70615e-08	0.999999	4.72526e-08	1.000000
rad30	4.01030e-08	0.999999	4.02659e-08	1.000000
rad39	2.84447e-08	0.999999	2.85602e-08	1.000000
rad28	2.64030e-08	0.999999	2.65102e-08	1.000000
rad51	2.18571e-08	1.000000	2.19458e-08	1.000000
rad35	1.94836e-08	1.000000	1.95627e-08	1.000000
rad47	1.88259e-08	1.000000	1.89024e-08	1.000000
rad15	1.82350e-08	1.000000	1.83091e-08	1.000000
rad52	6.12271e-09	1.000000	6.14757e-09	1.000000
PAH3+H	3.87905e-09	1.000000	3.89480e-09	1.000000
rad25	2.67326e-09	1.000000	2.68412e-09	1.000000
rad26	2.65303e-09	1.000000	2.66381e-09	1.000000
rad60syn	9.29888e-10	1.000000	9.33665e-10	1.000000
rad7	9.26264e-10	1.000000	9.30026e-10	1.000000
rad60anti	5.29974e-10	1.000000	5.32126e-10	1.000000
PAH10+CH3	4.91721e-10	1.000000	4.93718e-10	1.000000
rad59	4.78783e-10	1.000000	4.80727e-10	1.000000
rad71	4.64324e-10	1.000000	4.66209e-10	1.000000
PhCCH+CH3	4.46529e-10	1.000000	4.48342e-10	1.000000
rad10	4.15235e-10	1.000000	4.16922e-10	1.000000
PAH1+H	4.01920e-10	1.000000	4.03552e-10	1.000000
rad19anti	3.84335e-10	1.000000	3.85895e-10	1.000000
rad73	3.60672e-10	1.000000	3.62136e-10	1.000000
Ph+MeAc	2.33343e-10	1.000000	2.34291e-10	1.000000
rad13	2.24492e-10	1.000000	2.25404e-10	1.000000
rad65	2.21631e-10	1.000000	2.22531e-10	1.000000
rad12	2.14881e-10	1.000000	2.15754e-10	1.000000
rad37	2.02048e-10	1.000000	2.02869e-10	1.000000
rad70	8.46779e-11	1.000000	8.50218e-11	1.000000
PhCCCH3+H	6.83229e-11	1.000000	6.86004e-11	1.000000
rad2	5.50480e-11	1.000000	5.52716e-11	1.000000
rad34	2.37625e-11	1.000000	2.38590e-11	1.000000
rad67	2.00241e-11	1.000000	2.01054e-11	1.000000
rad1	1.85296e-11	1.000000	1.86048e-11	1.000000
rad58	1.61684e-11	1.000000	1.62341e-11	1.000000
rad19syn	1.39633e-11	1.000000	1.40200e-11	1.000000
rad72	1.37615e-11	1.000000	1.38174e-11	1.000000

rad3	1.02224e-11	1.000000	1.02640e-11	1.000000
rad4	8.45441e-12	1.000000	8.48874e-12	1.000000
PAH8+H	8.10030e-12	1.000000	8.13320e-12	1.000000
rad64	7.86419e-12	1.000000	7.89613e-12	1.000000
rad33	6.10146e-12	1.000000	6.12624e-12	1.000000
PhcycC3H3_A+H	4.12458e-12	1.000000	4.14133e-12	1.000000
rad54	3.86132e-12	1.000000	3.87700e-12	1.000000
rad62	2.41339e-12	1.000000	2.42319e-12	1.000000
rad68syn	2.27778e-12	1.000000	2.28703e-12	1.000000
rad68anti	1.47848e-12	1.000000	1.48449e-12	1.000000
rad61	1.08682e-12	1.000000	1.09124e-12	1.000000
rad40syn	9.17405e-13	1.000000	9.21131e-13	1.000000
rad14	7.95153e-13	1.000000	7.98382e-13	1.000000
rad40anti	5.52278e-13	1.000000	5.54521e-13	1.000000
rad5	4.52126e-13	1.000000	4.53962e-13	1.000000
rad55	3.04127e-13	1.000000	3.05362e-13	1.000000
rad43	2.47008e-13	1.000000	2.48011e-13	1.000000
rad42	2.38510e-13	1.000000	2.39479e-13	1.000000
rad56	1.19707e-13	1.000000	1.20193e-13	1.000000
rad53	1.04988e-13	1.000000	1.05414e-13	1.000000
rad27	8.65116e-14	1.000000	8.68630e-14	1.000000
rad41	2.27037e-14	1.000000	2.27959e-14	1.000000
rad31	1.23752e-14	1.000000	1.24254e-14	1.000000

100000000. Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	7.67505e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.880417	0.880417	0.920285	0.920285
rad21	0.0514831	0.931900	0.0538144	0.974099
Benzyl+C2H2	0.0433217	0.975222	0.000000	0.974099
rad18	0.0140119	0.989234	0.0146464	0.988746
rad22	0.00531595	0.994550	0.00555667	0.994302
rad45	0.00192909	0.996479	0.00201644	0.996319
Indene+H	0.00161040	0.998089	0.00168333	0.998002
rad11	0.000997485	0.999087	0.00104265	0.999045
rad24	0.000261020	0.999348	0.000272840	0.999318
rad23	0.000225742	0.999573	0.000235964	0.999554
rad36	0.000202876	0.999776	0.000212062	0.999766
rad6	7.56747e-05	0.999852	7.91016e-05	0.999845
PhCH2CCH+H	5.85147e-05	0.999910	6.11645e-05	0.999906
rad9	4.53288e-05	0.999956	4.73815e-05	0.999953
Ph+Allene	1.40178e-05	0.999970	1.46526e-05	0.999968
PhCHCCH2+H	1.12597e-05	0.999981	1.17696e-05	0.999980
rad38	3.07875e-06	0.999984	3.21816e-06	0.999983
PAH9+H	2.88597e-06	0.999987	3.01666e-06	0.999986
rad30	2.43268e-06	0.999989	2.54284e-06	0.999989
PAH7+H	1.38829e-06	0.999991	1.45116e-06	0.999990
rad50	1.31293e-06	0.999992	1.37239e-06	0.999991
rad46	1.15840e-06	0.999993	1.21085e-06	0.999993
rad15	1.13039e-06	0.999994	1.18158e-06	0.999994
rad28	1.06891e-06	0.999996	1.11731e-06	0.999995
rad8	9.58106e-07	0.999996	1.00149e-06	0.999996
PAH3+H	6.19018e-07	0.999997	6.47049e-07	0.999997
rad39	5.74736e-07	0.999998	6.00762e-07	0.999997
rad47	5.63614e-07	0.999998	5.89137e-07	0.999998
rad35	4.56542e-07	0.999999	4.77216e-07	0.999998
rad51	4.24327e-07	0.999999	4.43542e-07	0.999999
rad25	3.07910e-07	0.999999	3.21853e-07	0.999999
rad7	2.16974e-07	1.000000	2.26799e-07	0.999999
rad19anti	1.98879e-07	1.000000	2.07884e-07	0.999999
rad52	1.18484e-07	1.000000	1.23849e-07	1.000000
rad60syn	1.01838e-07	1.000000	1.06450e-07	1.000000
rad26	8.47907e-08	1.000000	8.86303e-08	1.000000
rad59	7.20269e-08	1.000000	7.52885e-08	1.000000
rad60anti	6.01216e-08	1.000000	6.28441e-08	1.000000
rad12	5.02067e-08	1.000000	5.24802e-08	1.000000
PhCCH+CH3	4.30523e-08	1.000000	4.50019e-08	1.000000
rad13	4.24877e-08	1.000000	4.44116e-08	1.000000
Ph+MeAc	3.67058e-08	1.000000	3.83679e-08	1.000000
PAH10+CH3	1.20845e-08	1.000000	1.26317e-08	1.000000
rad67	1.18621e-08	1.000000	1.23992e-08	1.000000
PhCCCH3+H	1.11419e-08	1.000000	1.16464e-08	1.000000
rad10	1.07419e-08	1.000000	1.12283e-08	1.000000
PAH1+H	9.03176e-09	1.000000	9.44075e-09	1.000000
rad2	8.80414e-09	1.000000	9.20282e-09	1.000000

rad71	8.06137e-09	1.00000	8.42641e-09	1.00000
rad73	6.32499e-09	1.00000	6.61141e-09	1.00000
rad37	5.01203e-09	1.00000	5.23900e-09	1.00000
rad65	4.73808e-09	1.00000	4.95264e-09	1.00000
rad70	3.42569e-09	1.00000	3.58082e-09	1.00000
rad1	2.91062e-09	1.00000	3.04242e-09	1.00000
rad58	2.78836e-09	1.00000	2.91463e-09	1.00000
rad19syn	1.93187e-09	1.00000	2.01935e-09	1.00000
rad33	1.49891e-09	1.00000	1.56679e-09	1.00000
rad3	1.41046e-09	1.00000	1.47433e-09	1.00000
rad4	1.17150e-09	1.00000	1.22455e-09	1.00000
rad34	8.62049e-10	1.00000	9.01085e-10	1.00000
PhcycC3H3_A+H	6.60896e-10	1.00000	6.90824e-10	1.00000
rad54	5.70227e-10	1.00000	5.96048e-10	1.00000
rad72	2.37358e-10	1.00000	2.48106e-10	1.00000
PAH8+H	2.11471e-10	1.00000	2.21047e-10	1.00000
rad64	1.76058e-10	1.00000	1.84030e-10	1.00000
rad5	9.76019e-11	1.00000	1.02022e-10	1.00000
rad68syn	6.53990e-11	1.00000	6.83605e-11	1.00000
rad62	5.88541e-11	1.00000	6.15192e-11	1.00000
rad55	4.45358e-11	1.00000	4.65525e-11	1.00000
rad68anti	4.25444e-11	1.00000	4.44710e-11	1.00000
rad61	2.66885e-11	1.00000	2.78970e-11	1.00000
rad14	2.60433e-11	1.00000	2.72226e-11	1.00000
rad40syn	2.47992e-11	1.00000	2.59222e-11	1.00000
rad56	1.70664e-11	1.00000	1.78392e-11	1.00000
rad53	1.50494e-11	1.00000	1.57309e-11	1.00000
rad40anti	1.47470e-11	1.00000	1.54147e-11	1.00000
rad43	1.31592e-11	1.00000	1.37550e-11	1.00000
rad31	9.40983e-12	1.00000	9.83594e-12	1.00000
rad27	6.21427e-12	1.00000	6.49568e-12	1.00000
rad42	5.82969e-12	1.00000	6.09368e-12	1.00000
rad41	1.21486e-12	1.00000	1.26987e-12	1.00000

100000000. Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.12228e-16 (1.00)	2.57683e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.702935	0.702935	0.851728	0.851728
Benzyl+C2H2	0.174695	0.877630	0.000000	0.851728
rad21	0.0620012	0.939631	0.0751252	0.926853
rad18	0.0202432	0.959874	0.0245281	0.951381
rad22	0.0132987	0.973173	0.0161137	0.967495
Indene+H	0.0100743	0.983247	0.0122067	0.979702
rad45	0.00726274	0.990510	0.00880007	0.988502
rad11	0.00364824	0.994158	0.00442048	0.992922
rad23	0.00108324	0.995242	0.00131253	0.994235
PhCH2CCH+H	0.000962956	0.996205	0.00116679	0.995402
rad6	0.000928596	0.997133	0.00112515	0.996527
rad36	0.000857854	0.997991	0.00103944	0.997566
rad24	0.000694461	0.998685	0.000841460	0.998408
rad9	0.000509039	0.999195	0.000616788	0.999024
Ph+Allene	0.000379142	0.999574	0.000459396	0.999484
PhCHCCH2+H	0.000275699	0.999849	0.000334057	0.999818
rad30	2.72746e-05	0.999877	3.30479e-05	0.999851
PAH7+H	1.53139e-05	0.999892	1.85555e-05	0.999869
PAH3+H	1.48133e-05	0.999907	1.79489e-05	0.999887
PAH9+H	1.22854e-05	0.999919	1.48859e-05	0.999902
rad38	1.14935e-05	0.999931	1.39263e-05	0.999916
rad28	1.06208e-05	0.999941	1.28689e-05	0.999929
rad15	8.63372e-06	0.999950	1.04613e-05	0.999940
rad8	5.89207e-06	0.999956	7.13926e-06	0.999947
rad7	5.41931e-06	0.999961	6.56643e-06	0.999953
rad50	4.98818e-06	0.999966	6.04405e-06	0.999959
rad46	4.35377e-06	0.999970	5.27535e-06	0.999965
rad19anti	4.22882e-06	0.999975	5.12395e-06	0.999970
rad35	2.93431e-06	0.999978	3.55542e-06	0.999973
rad25	2.71868e-06	0.999980	3.29416e-06	0.999977
rad39	2.66505e-06	0.999983	3.22917e-06	0.999980
rad47	2.58190e-06	0.999986	3.12842e-06	0.999983
rad12	2.45820e-06	0.999988	2.97854e-06	0.999986
rad60syn	1.72071e-06	0.999990	2.08494e-06	0.999988
rad51	1.62284e-06	0.999991	1.96636e-06	0.999990
rad59	1.57833e-06	0.999993	1.91242e-06	0.999992
PhCCH+CH3	1.19325e-06	0.999994	1.44583e-06	0.999993
rad60anti	1.04284e-06	0.999995	1.26359e-06	0.999995

rad26	9.28297e-07	0.999996	1.12479e-06	0.999996
Ph+MeAc	8.34262e-07	0.999997	1.01085e-06	0.999997
rad13	7.77100e-07	0.999998	9.41591e-07	0.999998
rad52	4.51271e-07	0.999998	5.46793e-07	0.999998
rad67	2.95040e-07	0.999998	3.57492e-07	0.999999
rad2	2.45864e-07	0.999999	2.97907e-07	0.999999
PhCCCH3+H	2.38709e-07	0.999999	2.89237e-07	0.999999
rad10	1.28723e-07	0.999999	1.55970e-07	0.999999
PAH10+CH3	1.27045e-07	0.999999	1.53937e-07	0.999999
rad70	1.11354e-07	0.999999	1.34925e-07	1.000000
rad58	1.00986e-07	0.999999	1.22362e-07	1.000000
rad1	8.70748e-08	1.000000	1.05506e-07	1.000000
PAH1+H	8.59500e-08	1.000000	1.04143e-07	1.000000
rad19syn	7.77610e-08	1.000000	9.42209e-08	1.000000
rad37	5.46410e-08	1.000000	6.62071e-08	1.000000
rad33	4.57183e-08	1.000000	5.53956e-08	1.000000
rad3	4.08410e-08	1.000000	4.94859e-08	1.000000
rad4	3.51587e-08	1.000000	4.26009e-08	1.000000
rad71	3.08267e-08	1.000000	3.73519e-08	1.000000
rad34	2.82366e-08	1.000000	3.42135e-08	1.000000
rad73	2.40010e-08	1.000000	2.90813e-08	1.000000
PhcycC3H3_A+H	2.19966e-08	1.000000	2.66528e-08	1.000000
rad65	2.02156e-08	1.000000	2.44947e-08	1.000000
rad54	1.89759e-08	1.000000	2.29926e-08	1.000000
PAH8+H	6.24074e-09	1.000000	7.56173e-09	1.000000
rad68syn	2.06480e-09	1.000000	2.50186e-09	1.000000
rad64	1.64726e-09	1.000000	1.99594e-09	1.000000
rad55	1.48200e-09	1.000000	1.79570e-09	1.000000
rad5	1.42771e-09	1.000000	1.72992e-09	1.000000
rad68anti	1.34453e-09	1.000000	1.62913e-09	1.000000
rad72	9.22209e-10	1.000000	1.11742e-09	1.000000
rad40syn	7.52618e-10	1.000000	9.11927e-10	1.000000
rad62	6.54485e-10	1.000000	7.93022e-10	1.000000
rad56	5.64921e-10	1.000000	6.84500e-10	1.000000
rad31	5.01138e-10	1.000000	6.07216e-10	1.000000
rad53	4.99247e-10	1.000000	6.04924e-10	1.000000
rad14	4.92221e-10	1.000000	5.96411e-10	1.000000
rad40anti	4.41642e-10	1.000000	5.35126e-10	1.000000
rad61	2.71927e-10	1.000000	3.29487e-10	1.000000
rad43	2.27500e-10	1.000000	2.75656e-10	1.000000
rad27	1.42090e-10	1.000000	1.72166e-10	1.000000
rad42	6.38241e-11	1.000000	7.73340e-11	1.000000
rad41	2.10616e-11	1.000000	2.55197e-11	1.000000

100000000. Pa, 900.000000 K

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

Total | 9.21769e-16 (1.00) | 6.24579e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.549924	0.549924	0.811591	0.811591
Benzyl+C2H2	0.322413	0.872337	0.000000	0.811591
rad21	0.0502794	0.922616	0.0742036	0.885795
Indene+H	0.0217579	0.944374	0.0321108	0.917905
rad18	0.0146133	0.958988	0.0215666	0.939472
rad22	0.0115300	0.970518	0.0170163	0.956488
rad45	0.0108258	0.981343	0.0159770	0.972465
PhCH2CCH+H	0.00405348	0.985397	0.00598222	0.978448
rad11	0.00354298	0.988940	0.00522882	0.983676
rad6	0.00223366	0.991174	0.00329648	0.986973
rad23	0.00181552	0.992989	0.00267939	0.989652
rad9	0.00180351	0.994793	0.00266166	0.992314
Ph+Allene	0.00162192	0.996414	0.00239367	0.994708
rad36	0.00122164	0.997636	0.00180292	0.996510
PhCHCCH2+H	0.00106016	0.998696	0.00156461	0.998075
rad24	0.000839605	0.999536	0.00123911	0.999314
rad30	9.11167e-05	0.999627	0.000134472	0.999449
PAH3+H	8.44918e-05	0.999711	0.000124695	0.999573
PAH7+H	5.37990e-05	0.999765	7.93979e-05	0.999653
PAH9+H	2.47913e-05	0.999790	3.65877e-05	0.999689
rad8	2.40115e-05	0.999814	3.54367e-05	0.999725
rad28	2.35276e-05	0.999838	3.47226e-05	0.999759
rad7	2.01737e-05	0.999858	2.97728e-05	0.999789
rad12	1.69171e-05	0.999875	2.49666e-05	0.999814
rad38	1.66479e-05	0.999891	2.45693e-05	0.999839
rad15	1.52973e-05	0.999907	2.25762e-05	0.999861
rad35	9.65230e-06	0.999916	1.42451e-05	0.999876
rad19anti	9.18246e-06	0.999925	1.35517e-05	0.999889

rad59	8.42619e-06	0.999934	1.24356e-05	0.999902
rad60syn	7.70006e-06	0.999942	1.13639e-05	0.999913
rad50	7.49398e-06	0.999949	1.10598e-05	0.999924
PhCCH+CH3	6.57057e-06	0.999956	9.69701e-06	0.999934
rad46	6.46082e-06	0.999962	9.53504e-06	0.999943
rad39	5.90123e-06	0.999968	8.70918e-06	0.999952
rad25	5.24948e-06	0.999973	7.74731e-06	0.999960
rad60anti	4.75216e-06	0.999978	7.01336e-06	0.999967
rad47	3.93830e-06	0.999982	5.81224e-06	0.999973
rad13	3.24429e-06	0.999985	4.78801e-06	0.999977
Ph+MeAc	2.59738e-06	0.999988	3.83327e-06	0.999981
rad51	2.39181e-06	0.999990	3.52990e-06	0.999985
rad26	2.38689e-06	0.999993	3.52263e-06	0.999988
rad58	7.56601e-07	0.999993	1.11661e-06	0.999989
rad67	7.20628e-07	0.999994	1.06352e-06	0.999990
rad52	6.63132e-07	0.999995	9.78666e-07	0.999991
rad2	6.60176e-07	0.999995	9.74304e-07	0.999992
rad70	6.41887e-07	0.999996	9.47312e-07	0.999993
PhCCCH3+H	5.86396e-07	0.999997	8.65417e-07	0.999994
rad19syn	5.79462e-07	0.999997	8.55185e-07	0.999995
PAH10+CH3	5.23745e-07	0.999998	7.72956e-07	0.999996
rad10	3.97062e-07	0.999998	5.85993e-07	0.999996
PAH1+H	3.80362e-07	0.999999	5.61347e-07	0.999997
rad33	3.75237e-07	0.999999	5.53784e-07	0.999997
rad1	2.47425e-07	0.999999	3.65156e-07	0.999998
rad3	2.37652e-07	0.999999	3.50732e-07	0.999998
rad37	2.16410e-07	1.000000	3.19383e-07	0.999999
rad4	2.03966e-07	1.000000	3.01018e-07	0.999999
PhcycC3H3_A+H	1.82784e-07	1.000000	2.69758e-07	0.999999
rad34	1.72979e-07	1.000000	2.55286e-07	0.999999
rad54	1.35472e-07	1.000000	1.99933e-07	1.000000
PAH8+H	4.95857e-08	1.000000	7.31798e-08	1.000000
rad71	4.75936e-08	1.000000	7.02399e-08	1.000000
rad65	4.05123e-08	1.000000	5.97890e-08	1.000000
rad73	3.67906e-08	1.000000	5.42964e-08	1.000000
rad68syn	1.48867e-08	1.000000	2.19702e-08	1.000000
rad55	1.07495e-08	1.000000	1.58644e-08	1.000000
rad68anti	9.67511e-09	1.000000	1.42788e-08	1.000000
rad64	7.38143e-09	1.000000	1.08937e-08	1.000000
rad40syn	5.75162e-09	1.000000	8.48838e-09	1.000000
rad56	4.43259e-09	1.000000	6.54172e-09	1.000000
rad53	3.82721e-09	1.000000	5.64830e-09	1.000000
rad40anti	3.42313e-09	1.000000	5.05193e-09	1.000000
rad62	3.24510e-09	1.000000	4.78920e-09	1.000000
rad5	3.12675e-09	1.000000	4.61453e-09	1.000000
rad14	2.70633e-09	1.000000	3.99406e-09	1.000000
rad31	2.66856e-09	1.000000	3.93832e-09	1.000000
rad72	1.44240e-09	1.000000	2.12873e-09	1.000000
rad61	1.15925e-09	1.000000	1.71085e-09	1.000000
rad43	6.50728e-10	1.000000	9.60360e-10	1.000000
rad27	5.59586e-10	1.000000	8.25851e-10	1.000000
rad42	3.20669e-10	1.000000	4.73251e-10	1.000000
rad41	6.07278e-11	1.000000	8.96235e-11	1.000000

100000000. Pa, 1000.00000 K

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

Total | 2.23691e-15 (1.00) | 1.23074e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.449803	0.449803	0.00000	0.00000
rad20	0.428117	0.877920	0.778116	0.778116
rad21	0.0406101	0.918530	0.0738100	0.851926
Indene+H	0.0278498	0.946380	0.0506179	0.902544
rad45	0.0115535	0.957933	0.0209988	0.923543
PhCH2CCH+H	0.00860312	0.966537	0.0156364	0.939179
rad18	0.00832636	0.974863	0.0151334	0.954313
rad22	0.00730138	0.982164	0.0132705	0.967583
rad9	0.00318527	0.985350	0.00578932	0.973372
Ph+Allene	0.00277749	0.988127	0.00504817	0.978420
rad6	0.00266796	0.990795	0.00484909	0.983270
rad11	0.00242092	0.993216	0.00440009	0.987670
rad23	0.00193108	0.995147	0.00350980	0.991179
PhCHCCH2+H	0.00171363	0.996861	0.00311458	0.994294
rad36	0.00123549	0.998096	0.00224555	0.996540
rad24	0.000991702	0.999088	0.00180245	0.998342
PAH3+H	0.000236661	0.999324	0.000430138	0.998772
rad30	0.000174336	0.999499	0.000316861	0.999089

rad8	9.65198e-05	0.999595	0.000175428	0.999264
PAH7+H	7.75104e-05	0.999673	0.000140878	0.999405
PAH9+H	3.61996e-05	0.999709	6.57939e-05	0.999471
rad12	3.27059e-05	0.999742	5.94439e-05	0.999531
rad7	3.09829e-05	0.999773	5.63124e-05	0.999587
rad28	2.62560e-05	0.999799	4.77210e-05	0.999635
rad59	2.25402e-05	0.999822	4.09675e-05	0.999676
rad35	2.12462e-05	0.999843	3.86157e-05	0.999714
rad60syn	1.82810e-05	0.999861	3.32263e-05	0.999747
rad38	1.78981e-05	0.999879	3.25303e-05	0.999780
rad15	1.56652e-05	0.999895	2.84719e-05	0.999808
PhCCH+CH3	1.39760e-05	0.999909	2.54019e-05	0.999834
rad60anti	1.14260e-05	0.999920	2.07671e-05	0.999855
rad19anti	1.01473e-05	0.999930	1.84430e-05	0.999873
rad13	9.36027e-06	0.999940	1.70126e-05	0.999890
rad25	8.45298e-06	0.999948	1.53635e-05	0.999905
rad50	8.26318e-06	0.999956	1.50186e-05	0.999920
rad39	7.78025e-06	0.999964	1.41408e-05	0.999935
rad46	7.07419e-06	0.999971	1.28576e-05	0.999947
rad47	4.18560e-06	0.999975	7.60745e-06	0.999955
Ph+MeAc	4.15059e-06	0.999979	7.54381e-06	0.999963
rad26	2.79502e-06	0.999982	5.08003e-06	0.999968
rad51	2.59314e-06	0.999985	4.71311e-06	0.999972
rad58	2.50878e-06	0.999987	4.55978e-06	0.999977
rad33	1.69240e-06	0.999989	3.07599e-06	0.999980
rad19syn	1.39878e-06	0.999990	2.54232e-06	0.999983
rad70	1.15500e-06	0.999992	2.09924e-06	0.999985
rad67	1.01557e-06	0.999993	1.84583e-06	0.999987
rad2	8.93132e-07	0.999993	1.62329e-06	0.999988
PAH10+CH3	8.26703e-07	0.999994	1.50256e-06	0.999990
PhCCCH3+H	7.47034e-07	0.999995	1.35776e-06	0.999991
rad52	7.17901e-07	0.999996	1.30481e-06	0.999992
PAH1+H	6.11771e-07	0.999996	1.11191e-06	0.999993
PhcycC3H3_A+H	5.06842e-07	0.999997	9.21201e-07	0.999994
rad10	5.05839e-07	0.999997	9.19378e-07	0.999995
rad3	5.02565e-07	0.999998	9.13427e-07	0.999996
rad4	4.19842e-07	0.999998	7.63076e-07	0.999997
rad37	3.31406e-07	0.999999	6.02340e-07	0.999998
rad34	3.18714e-07	0.999999	5.79272e-07	0.999998
rad1	3.12882e-07	0.999999	5.68673e-07	0.999999
rad54	2.99921e-07	1.000000	5.45115e-07	0.999999
PAH8+H	1.00904e-07	1.000000	1.83395e-07	0.999999
rad65	6.02509e-08	1.000000	1.09508e-07	1.000000
rad71	5.36108e-08	1.000000	9.74393e-08	1.000000
rad73	4.12682e-08	1.000000	7.50063e-08	1.000000
rad68syn	2.91833e-08	1.000000	5.30416e-08	1.000000
rad55	2.39660e-08	1.000000	4.35589e-08	1.000000
rad68anti	1.89528e-08	1.000000	3.44473e-08	1.000000
rad64	1.19608e-08	1.000000	2.17390e-08	1.000000
rad40syn	1.15324e-08	1.000000	2.09605e-08	1.000000
rad56	1.02554e-08	1.000000	1.86395e-08	1.000000
rad14	8.80068e-09	1.000000	1.59955e-08	1.000000
rad53	8.75511e-09	1.000000	1.59127e-08	1.000000
rad40anti	6.90272e-09	1.000000	1.25459e-08	1.000000
rad62	5.64731e-09	1.000000	1.02642e-08	1.000000
rad31	5.25333e-09	1.000000	9.54809e-09	1.000000
rad5	3.70042e-09	1.000000	6.72563e-09	1.000000
rad61	1.88212e-09	1.000000	3.42080e-09	1.000000
rad27	1.68349e-09	1.000000	3.05980e-09	1.000000
rad72	1.63690e-09	1.000000	2.97512e-09	1.000000
rad43	8.56480e-10	1.000000	1.55668e-09	1.000000
rad42	5.59509e-10	1.000000	1.01693e-09	1.000000
rad41	7.98854e-11	1.000000	1.45194e-10	1.000000

100000000. Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.07032e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.559364	0.559364	0.00000	0.00000
rad20	0.315430	0.874794	0.715851	0.715851
rad21	0.0415513	0.916345	0.0942984	0.810149
Indene+H	0.0293847	0.945730	0.0666869	0.876836
PhCH2CCH+H	0.0127910	0.958521	0.0290286	0.905865
rad45	0.0110830	0.969604	0.0251523	0.931017
rad18	0.00578615	0.975390	0.0131314	0.944149
rad22	0.00516016	0.980550	0.0117107	0.955859

rad9	0.00392074	0.984471	0.00889791	0.964757
Ph+Allene	0.00323211	0.987703	0.00733509	0.972092
rad6	0.00249507	0.990198	0.00566242	0.977755
rad11	0.00228016	0.992478	0.00517469	0.982929
PhCHCCH2+H	0.00193243	0.994411	0.00438553	0.987315
rad23	0.00179191	0.996203	0.00406665	0.991382
rad24	0.00116266	0.997365	0.00263859	0.994020
rad36	0.00115312	0.998519	0.00261695	0.996637
PAH3+H	0.000420740	0.998939	0.000954847	0.997592
rad8	0.000299875	0.999239	0.000680551	0.998273
rad30	0.000247535	0.999487	0.000561768	0.998834
PAH7+H	8.20217e-05	0.999569	0.000186144	0.999020
PAH9+H	4.33030e-05	0.999612	9.82738e-05	0.999119
rad12	4.02243e-05	0.999652	9.12868e-05	0.999210
rad59	3.90250e-05	0.999691	8.85651e-05	0.999299
rad7	3.85804e-05	0.999730	8.75560e-05	0.999386
rad35	3.39015e-05	0.999764	7.69375e-05	0.999463
rad60syn	2.95838e-05	0.999793	6.71389e-05	0.999530
rad13	2.47934e-05	0.999818	5.62672e-05	0.999586
rad28	2.40724e-05	0.999842	5.46311e-05	0.999641
PhCCH+CH3	1.88728e-05	0.999861	4.28309e-05	0.999684
rad60anti	1.86263e-05	0.999880	4.22714e-05	0.999726
rad38	1.78767e-05	0.999898	4.05701e-05	0.999767
rad25	1.64508e-05	0.999914	3.73342e-05	0.999804
rad15	1.59899e-05	0.999930	3.62883e-05	0.999840
rad19anti	1.01069e-05	0.999940	2.29370e-05	0.999863
rad39	8.34277e-06	0.999948	1.89335e-05	0.999882
rad50	8.33631e-06	0.999957	1.89188e-05	0.999901
rad46	7.11480e-06	0.999964	1.61467e-05	0.999917
Ph+MeAc	5.09094e-06	0.999969	1.15536e-05	0.999929
rad58	4.88415e-06	0.999974	1.10843e-05	0.999940
rad33	4.43472e-06	0.999978	1.00643e-05	0.999950
rad47	4.01160e-06	0.999982	9.10410e-06	0.999959
rad26	2.60272e-06	0.999985	5.90674e-06	0.999965
rad51	2.59944e-06	0.999988	5.89929e-06	0.999971
rad19syn	1.96662e-06	0.999989	4.46313e-06	0.999975
rad67	1.32337e-06	0.999991	3.00332e-06	0.999978
rad70	1.20171e-06	0.999992	2.72723e-06	0.999981
rad2	9.79082e-07	0.999993	2.22197e-06	0.999983
PAH10+CH3	9.59073e-07	0.999994	2.17656e-06	0.999986
PhCCCH3+H	8.12968e-07	0.999995	1.84499e-06	0.999987
PhcycC3H3_A+H	7.99936e-07	0.999996	1.81541e-06	0.999989
rad52	7.19186e-07	0.999996	1.63215e-06	0.999991
PAH1+H	7.06750e-07	0.999997	1.60393e-06	0.999992
rad3	6.49549e-07	0.999998	1.47412e-06	0.999994
rad10	5.49604e-07	0.999998	1.24730e-06	0.999995
rad4	5.34410e-07	0.999999	1.21282e-06	0.999996
rad54	3.80598e-07	0.999999	8.63746e-07	0.999997
rad37	3.75895e-07	0.999999	8.53073e-07	0.999998
rad34	3.33575e-07	1.000000	7.57030e-07	0.999999
rad1	3.20846e-07	1.000000	7.28143e-07	1.000000
PAH8+H	1.08577e-07	1.000000	2.46411e-07	1.000000
rad65	7.39821e-08	1.000000	1.67898e-07	1.000000
rad71	5.50792e-08	1.000000	1.24999e-07	1.000000
rad73	4.22833e-08	1.000000	9.59596e-08	1.000000
rad68syn	3.10549e-08	1.000000	7.04774e-08	1.000000
rad55	3.04885e-08	1.000000	6.91921e-08	1.000000
rad14	2.43604e-08	1.000000	5.52846e-08	1.000000
rad68anti	2.01641e-08	1.000000	4.57613e-08	1.000000
rad64	1.38869e-08	1.000000	3.15155e-08	1.000000
rad56	1.32533e-08	1.000000	3.00776e-08	1.000000
rad40syn	1.23537e-08	1.000000	2.80360e-08	1.000000
rad53	1.12558e-08	1.000000	2.55445e-08	1.000000
rad40anti	7.40725e-09	1.000000	1.68104e-08	1.000000
rad31	6.60083e-09	1.000000	1.49802e-08	1.000000
rad62	6.18650e-09	1.000000	1.40399e-08	1.000000
rad27	4.53486e-09	1.000000	1.02916e-08	1.000000
rad5	3.90490e-09	1.000000	8.86196e-09	1.000000
rad61	2.23080e-09	1.000000	5.06268e-09	1.000000
rad72	1.68976e-09	1.000000	3.83482e-09	1.000000
rad43	8.33548e-10	1.000000	1.89169e-09	1.000000
rad42	6.10674e-10	1.000000	1.38589e-09	1.000000
rad41	7.73066e-11	1.000000	1.75443e-10	1.000000

100000000. Pa, 1200.00000 K

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

Total | 8.84330e-15 (1.00) | 3.41763e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.613535	0.613535	0.00000	0.00000
rad20	0.256989	0.870524	0.664972	0.664972
rad21	0.0461105	0.916635	0.119314	0.784286
Indene+H	0.0286552	0.945290	0.0741470	0.858433
PhCH2CCH+H	0.0148396	0.960129	0.0383983	0.896831
rad45	0.0103286	0.970458	0.0267259	0.923557
rad18	0.00571732	0.976175	0.0147939	0.938351
rad9	0.00406624	0.980241	0.0105216	0.948873
rad22	0.00388979	0.984131	0.0100651	0.958938
Ph+Allene	0.00312777	0.987259	0.00809329	0.967031
rad11	0.00306665	0.990326	0.00793512	0.974966
rad6	0.00207132	0.992397	0.00535965	0.980326
PhCHCCH2+H	0.00183317	0.994230	0.00474342	0.985069
rad23	0.00157276	0.995803	0.00406960	0.989139
rad24	0.00118743	0.996990	0.00307254	0.992211
rad36	0.00106177	0.998052	0.00274739	0.994959
rad8	0.000531537	0.998584	0.00137538	0.996334
PAH3+H	0.000530050	0.999114	0.00137153	0.997706
rad30	0.000280069	0.999394	0.000724694	0.998430
PAH7+H	7.94155e-05	0.999473	0.000205492	0.998636
rad7	5.50627e-05	0.999528	0.000142478	0.998778
rad13	5.22726e-05	0.999581	0.000135258	0.998914
rad59	4.85486e-05	0.999629	0.000125622	0.999039
PAH9+H	4.84676e-05	0.999678	0.000125413	0.999165
rad12	4.15908e-05	0.999719	0.000107618	0.999272
rad35	4.13296e-05	0.999760	0.000106943	0.999379
rad60syn	3.56572e-05	0.999796	9.22649e-05	0.999472
rad25	2.64744e-05	0.999823	6.85039e-05	0.999540
rad15	2.27350e-05	0.999845	5.88281e-05	0.999599
rad60anti	2.25280e-05	0.999868	5.82924e-05	0.999657
rad28	2.08745e-05	0.999889	5.40140e-05	0.999711
PhCCH+CH3	2.01278e-05	0.999909	5.20817e-05	0.999763
rad38	1.75749e-05	0.999926	4.54761e-05	0.999809
rad19anti	9.84350e-06	0.999936	2.54706e-05	0.999834
rad39	8.42794e-06	0.999945	2.18078e-05	0.999856
rad50	8.21732e-06	0.999953	2.12628e-05	0.999877
rad46	7.00386e-06	0.999960	1.81229e-05	0.999895
rad33	6.86788e-06	0.999967	1.77710e-05	0.999913
rad58	6.41632e-06	0.999973	1.66026e-05	0.999930
Ph+MeAc	5.31473e-06	0.999979	1.37521e-05	0.999943
rad47	3.74884e-06	0.999982	9.70033e-06	0.999953
rad51	2.55957e-06	0.999985	6.62302e-06	0.999960
rad26	2.32201e-06	0.999987	6.00833e-06	0.999966
rad19syn	2.12184e-06	0.999989	5.49037e-06	0.999971
rad67	1.45008e-06	0.999991	3.75216e-06	0.999975
PAH10+CH3	1.02223e-06	0.999992	2.64507e-06	0.999978
rad70	9.64014e-07	0.999993	2.49444e-06	0.999980
rad2	9.46842e-07	0.999994	2.45001e-06	0.999983
PhcycC3H3_A+H	8.83741e-07	0.999995	2.28673e-06	0.999985
PhCCCH3+H	8.12473e-07	0.999995	2.10232e-06	0.999987
PAH1+H	7.45313e-07	0.999996	1.92854e-06	0.999989
rad52	7.07948e-07	0.999997	1.83186e-06	0.999991
rad10	7.04586e-07	0.999998	1.82316e-06	0.999993
rad3	6.52953e-07	0.999998	1.68955e-06	0.999994
rad4	5.34902e-07	0.999999	1.38409e-06	0.999996
rad54	3.98382e-07	0.999999	1.03083e-06	0.999997
rad37	3.93369e-07	0.999999	1.01786e-06	0.999998
rad1	3.00044e-07	1.000000	7.76380e-07	0.999999
rad34	2.68040e-07	1.000000	6.93568e-07	0.999999
PAH8+H	8.83313e-08	1.000000	2.28562e-07	0.999999
rad65	8.51813e-08	1.000000	2.20411e-07	1.000000
rad71	5.51757e-08	1.000000	1.42770e-07	1.000000
rad14	4.84378e-08	1.000000	1.25336e-07	1.000000
rad73	4.22694e-08	1.000000	1.09374e-07	1.000000
rad55	3.20026e-08	1.000000	8.28086e-08	1.000000
rad68syn	2.51161e-08	1.000000	6.49892e-08	1.000000
rad68anti	1.63063e-08	1.000000	4.21936e-08	1.000000
rad64	1.47081e-08	1.000000	3.80581e-08	1.000000
rad56	1.41399e-08	1.000000	3.65877e-08	1.000000
rad53	1.19466e-08	1.000000	3.09124e-08	1.000000
rad40syn	1.00255e-08	1.000000	2.59415e-08	1.000000
rad27	8.29050e-09	1.000000	2.14521e-08	1.000000
rad31	6.56073e-09	1.000000	1.69763e-08	1.000000
rad40anti	6.01730e-09	1.000000	1.55701e-08	1.000000
rad62	5.31706e-09	1.000000	1.37582e-08	1.000000
rad5	4.03704e-09	1.000000	1.04461e-08	1.000000
rad61	2.41772e-09	1.000000	6.25598e-09	1.000000
rad72	1.69881e-09	1.000000	4.39576e-09	1.000000

rad43	7.07018e-10	1.00000	1.82945e-09	1.00000
rad42	5.23941e-10	1.00000	1.35573e-09	1.00000
rad41	6.55015e-11	1.00000	1.69489e-10	1.00000

100000000. Pa, 1300.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.52810e-14 (1.00)		5.63647e-15 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.631145	0.631145	0.00000	0.00000
rad20	0.237440	0.868585	0.643721	0.643721
rad21	0.0487368	0.917322	0.132130	0.775851
Indene+H	0.0269960	0.944318	0.0731887	0.849040
PhCH2CCH+H	0.0152177	0.959535	0.0412567	0.890296
rad45	0.00985247	0.969388	0.0267109	0.917007
rad18	0.00716066	0.976549	0.0194132	0.936420
rad11	0.00479246	0.981341	0.0129928	0.949413
rad9	0.00400688	0.985348	0.0108630	0.960276
rad22	0.00313892	0.988487	0.00850990	0.968786
Ph+Allene	0.00268764	0.991175	0.00728643	0.976073
rad6	0.00158362	0.992758	0.00429335	0.980366
PhCHCCH2+H	0.00155810	0.994316	0.00422415	0.984590
rad23	0.00136028	0.995677	0.00368784	0.988278
rad24	0.00114796	0.996824	0.00311221	0.991390
rad36	0.00100748	0.997832	0.00273138	0.994122
rad8	0.000674798	0.998507	0.00182944	0.995951
PAH3+H	0.000539966	0.999047	0.00146389	0.997415
rad30	0.000273047	0.999320	0.000740256	0.998155
rad7	8.44387e-05	0.999404	0.000228921	0.998384
PAH7+H	7.64823e-05	0.999481	0.000207350	0.998591
rad13	7.35439e-05	0.999554	0.000199384	0.998791
PAH9+H	5.40975e-05	0.999608	0.000146663	0.998937
rad59	4.91940e-05	0.999658	0.000133369	0.999071
rad15	4.28444e-05	0.999700	0.000116155	0.999187
rad35	4.24927e-05	0.999743	0.000115202	0.999302
rad12	4.10212e-05	0.999784	0.000112121	0.999413
rad60syn	3.56652e-05	0.999820	9.66916e-05	0.999510
rad25	2.99426e-05	0.999850	8.11770e-05	0.999591
rad60anti	2.25649e-05	0.999872	6.11755e-05	0.999652
PhCCH+CH3	1.86240e-05	0.999891	5.04913e-05	0.999703
rad28	1.83739e-05	0.999909	4.98131e-05	0.999753
rad38	1.77246e-05	0.999927	4.80529e-05	0.999801
rad19anti	9.74302e-06	0.999937	2.64142e-05	0.999827
rad39	8.48009e-06	0.999945	2.29903e-05	0.999850
rad50	8.28595e-06	0.999953	2.24639e-05	0.999873
rad33	7.50666e-06	0.999961	2.03512e-05	0.999893
rad46	7.05812e-06	0.999968	1.91352e-05	0.999912
rad58	6.65383e-06	0.999975	1.80391e-05	0.999930
Ph+MeAc	5.01692e-06	0.999980	1.36013e-05	0.999944
rad47	3.59020e-06	0.999983	9.73336e-06	0.999954
rad51	2.58388e-06	0.999986	7.00513e-06	0.999961
rad26	2.22698e-06	0.999988	6.03754e-06	0.999967
rad19syn	1.94798e-06	0.999990	5.28115e-06	0.999972
rad67	1.33959e-06	0.999991	3.63174e-06	0.999975
PAH10+CH3	1.03480e-06	0.999992	2.80544e-06	0.999978
rad10	9.60414e-07	0.999993	2.60377e-06	0.999981
rad2	8.61224e-07	0.999994	2.33486e-06	0.999983
PhCCCH3+H	7.80548e-07	0.999995	2.11614e-06	0.999985
PAH1+H	7.66205e-07	0.999996	2.07725e-06	0.999987
rad70	7.21160e-07	0.999996	1.95513e-06	0.999989
rad52	7.14568e-07	0.999997	1.93726e-06	0.999991
PhcycC3H3_A+H	7.11007e-07	0.999998	1.92760e-06	0.999993
rad3	5.62376e-07	0.999998	1.52465e-06	0.999995
rad4	4.60905e-07	0.999999	1.24955e-06	0.999996
rad37	3.92463e-07	0.999999	1.06400e-06	0.999997
rad54	3.77105e-07	1.000000	1.02237e-06	0.999998
rad1	2.70215e-07	1.000000	7.32576e-07	0.999999
rad34	2.01081e-07	1.000000	5.45148e-07	0.999999
rad65	9.77585e-08	1.000000	2.65032e-07	1.000000
PAH8+H	6.73536e-08	1.000000	1.82602e-07	1.000000
rad14	6.56392e-08	1.000000	1.77954e-07	1.000000
rad71	5.64530e-08	1.000000	1.53049e-07	1.000000
rad73	4.31713e-08	1.000000	1.17041e-07	1.000000
rad55	3.03870e-08	1.000000	8.23818e-08	1.000000
rad68syn	1.90140e-08	1.000000	5.15487e-08	1.000000
rad64	1.51809e-08	1.000000	4.11567e-08	1.000000
rad56	1.36455e-08	1.000000	3.69943e-08	1.000000

rad68anti	1.23431e-08	1.00000	3.34633e-08	1.00000
rad53	1.14721e-08	1.00000	3.11019e-08	1.00000
rad27	1.06265e-08	1.00000	2.88095e-08	1.00000
rad40syn	7.62263e-09	1.00000	2.06656e-08	1.00000
rad31	5.68634e-09	1.00000	1.54162e-08	1.00000
rad5	4.82967e-09	1.00000	1.30937e-08	1.00000
rad40anti	4.58086e-09	1.00000	1.24191e-08	1.00000
rad62	4.29729e-09	1.00000	1.16503e-08	1.00000
rad61	2.47687e-09	1.00000	6.71501e-09	1.00000
rad72	1.74342e-09	1.00000	4.72657e-09	1.00000
rad43	6.04304e-10	1.00000	1.63832e-09	1.00000
rad42	4.25210e-10	1.00000	1.15278e-09	1.00000
rad41	5.63005e-11	1.00000	1.52636e-10	1.00000

100000000. Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.46691e-14 (1.00)	8.88812e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.639707	0.639707	0.00000	0.00000
rad20	0.227498	0.867205	0.631423	0.631423
rad21	0.0497583	0.916963	0.138105	0.769528
Indene+H	0.0205075	0.942021	0.0695476	0.839076
PhCH2CCH+H	0.0149905	0.957011	0.0416065	0.880682
rad45	0.00969892	0.966710	0.0269195	0.907602
rad18	0.00939237	0.976103	0.0260687	0.933670
rad11	0.00667962	0.982782	0.0185394	0.952210
rad9	0.00393844	0.986721	0.0109312	0.963141
rad22	0.00303736	0.989758	0.00843023	0.971571
Ph+Allene	0.00220039	0.991958	0.00610721	0.977678
PhCHCCH2+H	0.00128180	0.993240	0.00355766	0.981236
rad23	0.00122816	0.994468	0.00340879	0.984645
rad6	0.00122478	0.995693	0.00339940	0.988044
rad24	0.00111074	0.996804	0.00308289	0.991127
rad36	0.000989160	0.997793	0.00274543	0.993873
rad8	0.000739050	0.998532	0.00205125	0.995924
PAH3+H	0.000501721	0.999034	0.00139253	0.997316
rad30	0.000248929	0.999283	0.000690907	0.998007
rad7	0.000103607	0.999386	0.000287563	0.998295
rad15	7.79094e-05	0.999464	0.000216239	0.998511
PAH7+H	7.43042e-05	0.999539	0.000206233	0.998717
rad13	7.17846e-05	0.999610	0.000199239	0.998916
PAH9+H	5.92883e-05	0.999670	0.000164556	0.999081
rad59	4.55921e-05	0.999715	0.000126542	0.999208
rad35	4.05639e-05	0.999756	0.000112586	0.999320
rad12	4.04068e-05	0.999796	0.000112150	0.999432
rad60syn	3.28612e-05	0.999829	9.12068e-05	0.999524
rad25	2.78874e-05	0.999857	7.74019e-05	0.999601
rad60anti	2.08037e-05	0.999878	5.77411e-05	0.999659
rad38	1.84018e-05	0.999896	5.10744e-05	0.999710
rad28	1.81997e-05	0.999914	5.05135e-05	0.999760
PhCCH+CH3	1.52210e-05	0.999930	4.22461e-05	0.999802
rad19anti	9.87673e-06	0.999939	2.74130e-05	0.999830
rad50	8.59748e-06	0.999948	2.38624e-05	0.999854
rad39	8.48190e-06	0.999957	2.35416e-05	0.999877
rad46	7.32147e-06	0.999964	2.03209e-05	0.999898
rad33	6.38718e-06	0.999970	1.77277e-05	0.999915
rad58	6.23806e-06	0.999976	1.73138e-05	0.999933
Ph+MeAc	4.38881e-06	0.999981	1.21812e-05	0.999945
rad47	3.54785e-06	0.999984	9.84712e-06	0.999955
rad51	2.68572e-06	0.999987	7.45425e-06	0.999962
rad26	2.55521e-06	0.999990	7.09202e-06	0.999969
rad19syn	1.63903e-06	0.999991	4.54915e-06	0.999974
rad67	1.11166e-06	0.999992	3.08542e-06	0.999977
rad10	1.08510e-06	0.999993	3.01171e-06	0.999980
PAH10+CH3	9.43308e-07	0.999994	2.61817e-06	0.999983
rad2	7.72492e-07	0.999995	2.14406e-06	0.999985
PAH1+H	7.61755e-07	0.999996	2.11426e-06	0.999987
PhCCCH3+H	7.45982e-07	0.999997	2.07049e-06	0.999989
rad52	7.42669e-07	0.999997	2.06129e-06	0.999991
rad70	5.63222e-07	0.999998	1.56323e-06	0.999992
PhcycC3H3_A+H	4.29647e-07	0.999998	1.19249e-06	0.999994
rad3	4.24127e-07	0.999999	1.17717e-06	0.999995
rad37	3.54473e-07	0.999999	9.83846e-07	0.999996
rad4	3.47920e-07	1.000000	9.65656e-07	0.999997
rad54	3.12921e-07	1.000000	8.68516e-07	0.999998
rad1	2.42962e-07	1.00000	6.74345e-07	0.999998

rad34	1.57620e-07	1.00000	4.37475e-07	0.999999
rad65	1.09934e-07	1.00000	3.05122e-07	0.999999
rad14	6.86445e-08	1.00000	1.90524e-07	0.999999
rad71	5.93563e-08	1.00000	1.64744e-07	0.999999
PAH8+H	5.37520e-08	1.00000	1.49190e-07	1.000000
rad73	4.53187e-08	1.00000	1.25783e-07	1.000000
rad55	2.52758e-08	1.00000	7.01533e-08	1.000000
rad64	1.51606e-08	1.00000	4.20785e-08	1.000000
rad68syn	1.50622e-08	1.00000	4.18053e-08	1.000000
rad56	1.14893e-08	1.00000	3.18886e-08	1.000000
rad27	1.10728e-08	1.00000	3.07327e-08	1.000000
rad68anti	9.77643e-09	1.00000	2.71346e-08	1.000000
rad53	9.62432e-09	1.00000	2.67124e-08	1.000000
rad5	7.86971e-09	1.00000	2.18425e-08	1.000000
rad40syn	6.06573e-09	1.00000	1.68355e-08	1.000000
rad31	4.41564e-09	1.00000	1.22557e-08	1.000000
rad40anti	3.64988e-09	1.00000	1.01303e-08	1.000000
rad62	3.54247e-09	1.00000	9.83219e-09	1.000000
rad61	2.27400e-09	1.00000	6.31151e-09	1.000000
rad72	1.83808e-09	1.00000	5.10162e-09	1.000000
rad43	5.31074e-10	1.00000	1.47400e-09	1.000000
rad42	3.53131e-10	1.00000	9.80120e-10	1.000000
rad41	4.98250e-11	1.00000	1.38290e-10	1.000000

100000000. Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	1.32524e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.648393	0.648393	0.00000	0.00000
rad20	0.217546	0.865939	0.618720	0.618720
rad21	0.0499730	0.915912	0.142128	0.760848
Indene+H	0.0232372	0.939149	0.0660887	0.826937
PhCH2CCH+H	0.0147527	0.953902	0.0419579	0.868895
rad18	0.0112638	0.965166	0.0320353	0.900930
rad45	0.00965095	0.974817	0.0274481	0.928378
rad11	0.00792968	0.982746	0.0225527	0.950931
rad9	0.00391389	0.986660	0.0111314	0.962062
rad22	0.00371131	0.990372	0.0105553	0.972617
Ph+Allene	0.00187187	0.992243	0.00532375	0.977941
rad23	0.00129344	0.993537	0.00367865	0.981620
PhCHCCH2+H	0.00111996	0.994657	0.00318526	0.984805
rad6	0.00111048	0.995767	0.00315830	0.987963
rad24	0.00108486	0.996852	0.00308545	0.991049
rad36	0.000982432	0.997835	0.00279412	0.993843
rad8	0.000759028	0.998594	0.00215874	0.996002
PAH3+H	0.000469522	0.999063	0.00133536	0.997337
rad30	0.000229920	0.999293	0.000653913	0.997991
rad15	0.000114279	0.999407	0.000325019	0.998316
rad7	9.06093e-05	0.999498	0.000257701	0.998574
PAH7+H	7.13593e-05	0.999569	0.000202952	0.998777
PAH9+H	5.90405e-05	0.999628	0.000167916	0.998945
rad13	5.42348e-05	0.999683	0.000154249	0.999099
rad59	4.25878e-05	0.999725	0.000121123	0.999220
rad12	4.02331e-05	0.999765	0.000114426	0.999334
rad35	3.83319e-05	0.999804	0.000109019	0.999443
rad60syn	3.05707e-05	0.999834	8.69456e-05	0.999530
rad25	2.54537e-05	0.999860	7.23926e-05	0.999603
rad28	2.21566e-05	0.999882	6.30152e-05	0.999666
rad60anti	1.93619e-05	0.999901	5.50671e-05	0.999721
rad38	1.92288e-05	0.999920	5.46883e-05	0.999775
PhCCH+CH3	1.09887e-05	0.999931	3.12530e-05	0.999807
rad19anti	1.02140e-05	0.999942	2.90494e-05	0.999836
rad50	8.98646e-06	0.999951	2.55583e-05	0.999861
rad39	8.17013e-06	0.999959	2.32366e-05	0.999885
rad46	7.65181e-06	0.999967	2.17624e-05	0.999906
rad58	5.87538e-06	0.999972	1.67101e-05	0.999923
rad33	4.47731e-06	0.999977	1.27339e-05	0.999936
Ph+MeAc	3.65031e-06	0.999981	1.03818e-05	0.999946
rad47	3.54137e-06	0.999984	1.00720e-05	0.999956
rad26	3.32893e-06	0.999987	9.46778e-06	0.999966
rad51	2.81045e-06	0.999990	7.99315e-06	0.999974
rad19syn	1.41682e-06	0.999992	4.02957e-06	0.999978
rad10	9.38754e-07	0.999993	2.66990e-06	0.999980
rad67	9.23382e-07	0.999993	2.62618e-06	0.999983
rad52	7.77125e-07	0.999994	2.21021e-06	0.999985
PhCCCH3+H	7.26795e-07	0.999995	2.06707e-06	0.999987

PAH10+CH3	7.22164e-07	0.999996	2.05390e-06	0.999989
rad2	7.06954e-07	0.999996	2.01064e-06	0.999991
PAH1+H	6.98694e-07	0.999997	1.98715e-06	0.999993
rad70	4.87433e-07	0.999998	1.38630e-06	0.999995
rad3	2.81345e-07	0.999998	8.00169e-07	0.999996
rad37	2.70238e-07	0.999998	7.68580e-07	0.999996
rad4	2.30739e-07	0.999998	6.56242e-07	0.999997
PhcycC3H3_A+H	2.25697e-07	0.999999	6.41902e-07	0.999998
rad1	2.23809e-07	0.999999	6.36531e-07	0.999998
rad54	2.23505e-07	0.999999	6.35667e-07	0.999999
rad34	1.36820e-07	0.999999	3.89127e-07	0.999999
rad65	1.11493e-07	0.999999	3.17096e-07	1.000000
rad71	6.27869e-08	0.999999	1.78571e-07	1.000000
rad14	6.03233e-08	0.999999	1.71565e-07	1.000000
rad73	4.78663e-08	0.999999	1.36136e-07	1.000000
PAH8+H	4.73104e-08	1.000000	1.34555e-07	1.000000
rad55	1.80792e-08	1.000000	5.14190e-08	1.000000
rad5	1.73564e-08	1.000000	4.93630e-08	1.000000
rad64	1.39743e-08	1.000000	3.97441e-08	1.000000
rad68syn	1.31837e-08	1.000000	3.74957e-08	1.000000
rad27	1.02377e-08	1.000000	2.91170e-08	1.000000
rad68anti	8.55629e-09	1.000000	2.43348e-08	1.000000
rad56	8.27759e-09	1.000000	2.35422e-08	1.000000
rad53	6.91908e-09	1.000000	1.96785e-08	1.000000
rad40syn	5.32706e-09	1.000000	1.51506e-08	1.000000
rad40anti	3.20829e-09	1.000000	9.12466e-09	1.000000
rad31	3.10989e-09	1.000000	8.84480e-09	1.000000
rad62	2.85492e-09	1.000000	8.11964e-09	1.000000
rad72	1.94921e-09	1.000000	5.54372e-09	1.000000
rad61	1.74764e-09	1.000000	4.97045e-09	1.000000
rad43	4.63324e-10	1.000000	1.31774e-09	1.000000
rad42	2.86422e-10	1.000000	8.14609e-10	1.000000
rad41	4.36705e-11	1.000000	1.24203e-10	1.000000

100000000. Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	2.04095e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.777821	0.777821	0.00000	0.00000
PhCH2CCH+H	0.102397	0.880218	0.460876	0.460876
PhCHCCH2+H	0.0342961	0.914514	0.154362	0.615238
rad20	0.0213062	0.935820	0.0958965	0.711135
Ph+Allene	0.0199506	0.955771	0.0897954	0.800930
Indene+H	0.0173608	0.973132	0.0781390	0.879069
PAH3+H	0.00606057	0.979192	0.0272779	0.906347
rad21	0.00247722	0.981669	0.0111496	0.917496
PAH7+H	0.00200493	0.983674	0.00902394	0.926520
PhCCH+CH3	0.00133814	0.985013	0.00602281	0.932543
rad50	0.00109130	0.986104	0.00491181	0.937455
rad39	0.00100741	0.987111	0.00453421	0.941989
rad51	0.000882931	0.987994	0.00397396	0.945963
rad18	0.000882165	0.988876	0.00397051	0.949934
PAH9+H	0.000826833	0.989703	0.00372147	0.953655
Ph+MeAc	0.000778335	0.990482	0.00350319	0.957158
rad22	0.000731338	0.991213	0.00329166	0.960450
rad71	0.000642304	0.991855	0.00289093	0.963341
rad11	0.000568052	0.992423	0.00255673	0.965898
rad30	0.000556263	0.992979	0.00250367	0.968401
rad38	0.000549595	0.993529	0.00247366	0.970875
rad9	0.000532321	0.994061	0.00239591	0.973271
rad19anti	0.000518186	0.994580	0.00233229	0.975603
rad35	0.000471419	0.995051	0.00212180	0.977725
rad45	0.000453401	0.995504	0.00204070	0.979766
rad47	0.000406734	0.995911	0.00183066	0.981596
rad59	0.000401991	0.996313	0.00180931	0.983406
rad8	0.000324422	0.996638	0.00146018	0.984866
PhCCH3+H	0.000318705	0.996956	0.00143445	0.986300
rad46	0.000281698	0.997238	0.00126789	0.987568
rad67	0.000258502	0.997496	0.00116348	0.988732
rad19syn	0.000256776	0.997753	0.00115572	0.989887
PAH1+H	0.000211905	0.997965	0.000953756	0.990841
rad73	0.000207778	0.998173	0.000935186	0.991776
rad6	0.000187792	0.998361	0.000845230	0.992622
PAH10+CH3	0.000183534	0.998544	0.000826063	0.993448
rad60syn	0.000172193	0.998716	0.000775018	0.994223
rad58	0.000170068	0.998887	0.000765455	0.994988

rad23	0.000146314	0.999033	0.000658540	0.995647
rad52	0.000143536	0.999176	0.000646036	0.996293
rad60anti	0.000129670	0.999306	0.000583628	0.996876
rad72	0.000119769	0.999426	0.000539067	0.997415
PAH8+H	8.91906e-05	0.999515	0.000401436	0.997817
rad36	8.26993e-05	0.999598	0.000372219	0.998189
rad24	7.47893e-05	0.999672	0.000336618	0.998526
rad70	4.79504e-05	0.999720	0.000215819	0.998741
rad15	4.64197e-05	0.999767	0.000208929	0.998950
rad12	4.55743e-05	0.999812	0.000205124	0.999155
PhcycC3H3_A+H	4.51393e-05	0.999858	0.000203166	0.999359
rad34	2.25210e-05	0.999880	0.000101364	0.999460
rad65	1.90400e-05	0.999899	8.56969e-05	0.999546
rad37	1.23122e-05	0.999911	5.54157e-05	0.999601
rad7	1.08486e-05	0.999922	4.88282e-05	0.999650
rad54	1.00744e-05	0.999932	4.53438e-05	0.999695
rad68syn	8.61330e-06	0.999941	3.87674e-05	0.999734
rad28	7.45072e-06	0.999948	3.33390e-05	0.999767
rad64	6.35496e-06	0.999955	2.86029e-05	0.999796
rad40syn	6.22853e-06	0.999961	2.80339e-05	0.999824
rad25	6.15719e-06	0.999967	2.77128e-05	0.999852
rad68anti	5.47091e-06	0.999973	2.46239e-05	0.999876
rad40anti	4.90763e-06	0.999977	2.20886e-05	0.999898
rad13	3.69214e-06	0.999981	1.66179e-05	0.999915
rad56	3.21782e-06	0.999984	1.44830e-05	0.999930
rad10	2.53687e-06	0.999987	1.14181e-05	0.999941
rad62	2.46797e-06	0.999989	1.11080e-05	0.999952
rad26	2.46417e-06	0.999992	1.10909e-05	0.999963
rad61	2.12523e-06	0.999994	9.56538e-06	0.999973
rad53	1.74386e-06	0.999996	7.84891e-06	0.999981
rad55	1.25526e-06	0.999997	5.64977e-06	0.999986
rad42	6.29147e-07	0.999998	2.83171e-06	0.999989
rad43	5.47509e-07	0.999998	2.46427e-06	0.999992
rad33	4.77617e-07	0.999999	2.14970e-06	0.999994
rad2	4.58082e-07	0.999999	2.06177e-06	0.999996
rad5	2.06185e-07	0.999999	9.28015e-07	0.999997
rad1	2.00855e-07	1.000000	9.04024e-07	0.999998
rad14	1.97236e-07	1.000000	8.87735e-07	0.999998
rad41	1.57448e-07	1.000000	7.08654e-07	0.999999
rad27	5.46371e-08	1.000000	2.45915e-07	0.999999
rad3	1.36655e-08	1.000000	6.15066e-08	0.999999
rad4	7.47177e-09	1.000000	3.36295e-08	1.000000

10000000. Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	3.79905e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.795044	0.795044	0.00000	0.00000
PhCH2CCH+H	0.0912342	0.886278	0.445140	0.445140
PhCHCCH2+H	0.0326124	0.918891	0.159119	0.604259
Indene+H	0.0183694	0.937260	0.0896257	0.693885
Ph+Allene	0.0182267	0.955487	0.0889295	0.782814
rad20	0.0170114	0.972498	0.0830003	0.865815
PAH3+H	0.00639769	0.978896	0.0312149	0.897029
rad21	0.00248776	0.981384	0.0121380	0.909167
PAH7+H	0.00204702	0.983431	0.00998758	0.919155
PhCCH+CH3	0.00127314	0.984704	0.00621178	0.925367
rad50	0.00115447	0.985858	0.00563276	0.931000
rad39	0.00106122	0.986919	0.00517780	0.936177
rad51	0.000937502	0.987857	0.00457415	0.940751
PAH9+H	0.000931244	0.988788	0.00454362	0.945295
rad18	0.000797104	0.989585	0.00388914	0.949184
Ph+MeAc	0.000760447	0.990346	0.00371029	0.952895
rad71	0.000687019	0.991033	0.00335202	0.956247
rad22	0.000685762	0.991718	0.00334589	0.959592
rad11	0.000587343	0.992306	0.00286570	0.962458
rad38	0.000584806	0.992891	0.00285332	0.965311
rad30	0.000578998	0.993470	0.00282498	0.968136
rad19anti	0.000509088	0.993979	0.00248388	0.970620
rad35	0.000496700	0.994475	0.00242344	0.973044
rad9	0.000489976	0.994965	0.00239063	0.975434
rad45	0.000445707	0.995411	0.00217464	0.977609
rad59	0.000422656	0.995834	0.00206217	0.979671
rad47	0.000390798	0.996225	0.00190674	0.981578
PhCCCH3+H	0.000305898	0.996530	0.00149250	0.983070
rad46	0.000298578	0.996829	0.00145679	0.984527

rad8	0.000293778	0.997123	0.00143337	0.985961
rad67	0.000258645	0.997381	0.00126195	0.987223
rad19syn	0.000240734	0.997622	0.00117456	0.988397
rad23	0.000233480	0.997856	0.00113917	0.989536
rad73	0.000221774	0.998077	0.00108205	0.990618
PAH1+H	0.000217935	0.998295	0.00106332	0.991682
PAH10+CH3	0.000184572	0.998480	0.000900543	0.992582
rad58	0.000181476	0.998661	0.000885437	0.993468
rad60syn	0.000180103	0.998842	0.000878736	0.994346
rad6	0.000167937	0.999009	0.000819381	0.995166
rad52	0.000152494	0.999162	0.000744032	0.995910
rad60anti	0.000135733	0.999298	0.000662251	0.996572
rad72	0.000128449	0.999426	0.000626716	0.997199
PAH8+H	8.63665e-05	0.999513	0.000421389	0.997620
rad36	8.10880e-05	0.999594	0.000395635	0.998016
rad24	7.46221e-05	0.999668	0.000364088	0.998380
rad15	5.11780e-05	0.999719	0.000249702	0.998630
rad70	4.63397e-05	0.999766	0.000226095	0.998856
PhcycC3H3_A+H	4.17895e-05	0.999808	0.000203895	0.999060
rad12	4.08562e-05	0.999848	0.000199341	0.999259
rad65	2.23640e-05	0.999871	0.000109116	0.999368
rad34	2.17705e-05	0.999893	0.000106220	0.999474
rad28	1.57661e-05	0.999908	7.69239e-05	0.999551
rad37	1.22791e-05	0.999921	5.99106e-05	0.999611
rad54	9.48529e-06	0.999930	4.62795e-05	0.999657
rad7	9.48290e-06	0.999940	4.62679e-05	0.999704
rad68syn	8.33306e-06	0.999948	4.06577e-05	0.999744
rad64	6.54807e-06	0.999954	3.19486e-05	0.999776
rad40syn	6.03005e-06	0.999960	2.94211e-05	0.999806
rad25	5.64569e-06	0.999966	2.75458e-05	0.999833
rad68anti	5.29288e-06	0.999971	2.58244e-05	0.999859
rad40anti	4.75214e-06	0.999976	2.31861e-05	0.999882
rad26	4.31990e-06	0.999980	2.10771e-05	0.999903
rad56	3.09940e-06	0.999984	1.51222e-05	0.999918
rad13	2.83096e-06	0.999986	1.38125e-05	0.999932
rad10	2.80489e-06	0.999989	1.36853e-05	0.999946
rad62	2.50064e-06	0.999992	1.22008e-05	0.999958
rad61	2.14660e-06	0.999994	1.04734e-05	0.999969
rad53	1.67231e-06	0.999996	8.15933e-06	0.999977
rad5	1.18861e-06	0.999997	5.79931e-06	0.999983
rad55	1.18685e-06	0.999998	5.79076e-06	0.999988
rad42	6.38765e-07	0.999999	3.11659e-06	0.999991
rad43	5.34350e-07	0.999999	2.60714e-06	0.999994
rad2	3.98256e-07	0.999999	1.94313e-06	0.999996
rad33	3.70536e-07	1.000000	1.80788e-06	0.999998
rad14	1.87916e-07	1.000000	9.16859e-07	0.999999
rad1	1.78625e-07	1.000000	8.71529e-07	1.000000
rad41	1.53880e-07	1.000000	7.50796e-07	1.000000
rad27	4.94420e-08	1.000000	2.41232e-07	1.000000
rad3	1.06841e-08	1.000000	5.21285e-08	1.000000
rad4	5.74106e-09	1.000000	2.80111e-08	1.000000

100000000. Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	6.15926e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.812866	0.812866	0.00000	0.00000
PhCH2CCH+H	0.0815652	0.894431	0.435866	0.435866
PhCHCCH2+H	0.0302551	0.924686	0.161676	0.597542
Indene+H	0.0188718	0.943558	0.100846	0.698388
Ph+Allene	0.0164509	0.960009	0.0879099	0.786298
rad20	0.0131985	0.973208	0.0705299	0.856828
PAH3+H	0.00609184	0.979299	0.0325534	0.889381
rad21	0.00235371	0.981653	0.0125777	0.901959
PAH7+H	0.00199974	0.983653	0.0106862	0.912645
rad50	0.00118020	0.984833	0.00630671	0.918952
PhCCH+CH3	0.00117470	0.986008	0.00627731	0.925229
rad39	0.00107984	0.987088	0.00577042	0.931000
PAH9+H	0.000978450	0.988066	0.00522861	0.936228
rad51	0.000962031	0.989028	0.00514087	0.941369
rad18	0.000734367	0.989762	0.00392429	0.945293
Ph+MeAc	0.000723382	0.990486	0.00386559	0.949159
rad71	0.000709321	0.991195	0.00379045	0.952949
rad22	0.000671076	0.991866	0.00358608	0.956535
rad11	0.000610342	0.992476	0.00326153	0.959797
rad38	0.000601297	0.993078	0.00321319	0.963010

rad30	0.000569166	0.993647	0.00304149	0.966052
rad19anti	0.000487818	0.994135	0.00260679	0.968658
rad35	0.000483845	0.994619	0.00258556	0.971244
rad9	0.000452645	0.995071	0.00241883	0.973663
rad45	0.000428678	0.995500	0.00229076	0.975954
rad59	0.000403645	0.995904	0.00215698	0.978111
rad47	0.000367138	0.996271	0.00196190	0.980072
rad46	0.000305797	0.996577	0.00163411	0.981707
rad23	0.000294429	0.996871	0.00157336	0.983280
PhCCCH3+H	0.000284749	0.997156	0.00152163	0.984802
rad8	0.000267691	0.997423	0.00143048	0.986232
rad67	0.000248380	0.997672	0.00132729	0.987559
rad73	0.000228543	0.997900	0.00122128	0.988781
rad19syn	0.000219425	0.998120	0.00117256	0.989953
PAH1+H	0.000213743	0.998333	0.00114219	0.991095
PAH10+CH3	0.000178980	0.998512	0.000956428	0.992052
rad60syn	0.000173307	0.998686	0.000926114	0.992978
rad58	0.000171937	0.998858	0.000918791	0.993897
rad6	0.000169019	0.999027	0.000903196	0.994800
rad52	0.000156563	0.999183	0.000836637	0.995637
rad72	0.000132932	0.999316	0.000710360	0.996347
rad60anti	0.000130436	0.999447	0.000697022	0.997044
PAH8+H	8.06393e-05	0.999527	0.000430918	0.997475
rad36	7.78646e-05	0.999605	0.000416090	0.997891
rad24	7.20985e-05	0.999677	0.000385278	0.998276
rad15	4.89980e-05	0.999726	0.000261834	0.998538
rad70	4.34532e-05	0.999770	0.000232204	0.998770
PhcycC3H3_A+H	3.97384e-05	0.999809	0.000212353	0.998983
rad12	3.62829e-05	0.999846	0.000193887	0.999176
rad65	2.40989e-05	0.999870	0.000128779	0.999305
rad28	2.12781e-05	0.999891	0.000113705	0.999419
rad34	2.03893e-05	0.999912	0.000108955	0.999528
rad37	1.18678e-05	0.999923	6.34185e-05	0.999591
rad54	8.96772e-06	0.999932	4.79214e-05	0.999639
rad7	8.50003e-06	0.999941	4.54222e-05	0.999685
rad68syn	7.78699e-06	0.999949	4.16119e-05	0.999726
rad64	6.42824e-06	0.999955	3.43510e-05	0.999761
rad40syn	5.63303e-06	0.999961	3.01016e-05	0.999791
rad25	5.11732e-06	0.999966	2.73458e-05	0.999818
rad26	5.08692e-06	0.999971	2.71833e-05	0.999845
rad68anti	4.94609e-06	0.999976	2.64308e-05	0.999872
rad40anti	4.43887e-06	0.999980	2.37203e-05	0.999895
rad56	2.95025e-06	0.999983	1.57655e-05	0.999911
rad10	2.59399e-06	0.999986	1.38617e-05	0.999925
rad62	2.43531e-06	0.999988	1.30137e-05	0.999938
rad13	2.43199e-06	0.999991	1.29960e-05	0.999951
rad61	2.08539e-06	0.999993	1.11438e-05	0.999962
rad5	1.99938e-06	0.999995	1.06842e-05	0.999973
rad53	1.58957e-06	0.999996	8.49431e-06	0.999981
rad55	1.12339e-06	0.999997	6.00314e-06	0.999987
rad42	6.22835e-07	0.999998	3.32829e-06	0.999991
rad43	5.04483e-07	0.999999	2.69584e-06	0.999993
rad2	3.43874e-07	0.999999	1.83758e-06	0.999995
rad33	3.15677e-07	0.999999	1.68691e-06	0.999997
rad14	1.68143e-07	0.999999	8.98518e-07	0.999998
rad1	1.57835e-07	1.000000	8.43433e-07	0.999999
rad41	1.45287e-07	1.000000	7.76381e-07	0.999999
rad27	4.30368e-08	1.000000	2.29979e-07	1.000000
rad3	9.11103e-09	1.000000	4.86872e-08	1.000000
rad4	4.89445e-09	1.000000	2.61548e-08	1.000000

10000000. Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.32896e-13 (1.00)	9.22501e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.826889	0.826889	0.00000	0.00000
PhCH2CCH+H	0.0759766	0.902866	0.438888	0.438888
PhCHCCH2+H	0.0280127	0.930878	0.161819	0.600707
Indene+H	0.0187349	0.949613	0.108225	0.708932
Ph+Allene	0.0151549	0.964768	0.0875443	0.796476
rad20	0.00997875	0.974747	0.0576435	0.854120
PAH3+H	0.00550624	0.980253	0.0318075	0.885927
rad21	0.00210828	0.982361	0.0121787	0.898106
PAH7+H	0.00189066	0.984252	0.0109217	0.909028
rad50	0.00116860	0.985421	0.00675059	0.915778
PhCCH+CH3	0.00107324	0.986494	0.00619970	0.921978

rad39	0.00106467	0.987559	0.00615020	0.928128
PAH9+H	0.000978935	0.988537	0.00565494	0.933783
rad51	0.000955830	0.989493	0.00552148	0.939305
rad71	0.000708508	0.990202	0.00409279	0.943397
Ph+MeAc	0.000683032	0.990885	0.00394562	0.947343
rad22	0.000652647	0.991537	0.00377010	0.951113
rad18	0.000640268	0.992178	0.00369859	0.954812
rad11	0.000637804	0.992816	0.00368436	0.958496
rad38	0.000598861	0.993414	0.00345940	0.961955
rad30	0.000542597	0.993957	0.00313438	0.965090
rad19anti	0.000464998	0.994422	0.00268612	0.967776
rad35	0.000452845	0.994875	0.00261592	0.970392
rad9	0.000427122	0.995302	0.00246733	0.972859
rad45	0.000403059	0.995705	0.00232832	0.975188
rad59	0.000367451	0.996072	0.00212263	0.977310
rad47	0.000337134	0.996410	0.00194750	0.979258
rad23	0.000317035	0.996727	0.00183139	0.981089
rad46	0.000303361	0.997030	0.00175240	0.982841
PhCCCH3+H	0.000262256	0.997292	0.00151496	0.984356
rad8	0.000249871	0.997542	0.00144341	0.985800
rad67	0.000235036	0.997777	0.00135772	0.987158
rad73	0.000227900	0.998005	0.00131649	0.988474
PAH1+H	0.000202021	0.998207	0.00116700	0.989641
rad19syn	0.000198738	0.998406	0.00114803	0.990789
rad6	0.000181200	0.998587	0.00104673	0.991836
PAH10+CH3	0.000169477	0.998757	0.000979006	0.992815
rad60syn	0.000160062	0.998917	0.000924618	0.993739
rad52	0.000155638	0.999072	0.000899060	0.994638
rad58	0.000153120	0.999225	0.000884520	0.995523
rad72	0.000133055	0.999358	0.000768611	0.996292
rad60anti	0.000120175	0.999479	0.000694208	0.996986
PAH8+H	7.38036e-05	0.999552	0.000426336	0.997412
rad36	7.31430e-05	0.999626	0.000422520	0.997835
rad24	6.72827e-05	0.999693	0.000388667	0.998223
rad15	4.59927e-05	0.999739	0.000265682	0.998489
rad70	4.02201e-05	0.999779	0.000232336	0.998721
PhcycC3H3_A+H	3.96045e-05	0.999819	0.000228781	0.998950
rad12	3.25735e-05	0.999851	0.000188165	0.999138
rad65	2.43021e-05	0.999875	0.000140384	0.999279
rad28	2.26799e-05	0.999898	0.000131013	0.999410
rad34	1.88146e-05	0.999917	0.000108685	0.999518
rad37	1.12634e-05	0.999928	6.50643e-05	0.999583
rad54	8.66281e-06	0.999937	5.00418e-05	0.999633
rad7	8.20171e-06	0.999945	4.73782e-05	0.999681
rad68syn	7.14496e-06	0.999952	4.12737e-05	0.999722
rad64	6.07464e-06	0.999958	3.50909e-05	0.999757
rad40syn	5.16152e-06	0.999964	2.98162e-05	0.999787
rad26	5.00257e-06	0.999969	2.88980e-05	0.999816
rad25	4.76595e-06	0.999973	2.75311e-05	0.999843
rad68anti	4.53844e-06	0.999978	2.62169e-05	0.999870
rad40anti	4.06587e-06	0.999982	2.34870e-05	0.999893
rad56	2.83791e-06	0.999985	1.63935e-05	0.999910
rad62	2.31416e-06	0.999987	1.33681e-05	0.999923
rad10	2.30742e-06	0.999989	1.33291e-05	0.999936
rad13	2.29870e-06	0.999992	1.32787e-05	0.999950
rad5	2.06842e-06	0.999994	1.19485e-05	0.999962
rad61	1.97244e-06	0.999996	1.13940e-05	0.999973
rad53	1.53017e-06	0.999997	8.83921e-06	0.999982
rad55	1.08425e-06	0.999998	6.26331e-06	0.999988
rad42	5.91978e-07	0.999999	3.41963e-06	0.999991
rad43	4.68179e-07	0.999999	2.70450e-06	0.999994
rad2	3.01645e-07	1.000000	1.74249e-06	0.999996
rad33	2.91929e-07	1.000000	1.68636e-06	0.999998
rad14	1.48122e-07	1.000000	8.55647e-07	0.999998
rad1	1.41382e-07	1.000000	8.16713e-07	0.999999
rad41	1.34647e-07	1.000000	7.77806e-07	1.000000
rad27	3.73447e-08	1.000000	2.15727e-07	1.000000
rad3	8.32768e-09	1.000000	4.81059e-08	1.000000
rad4	4.53738e-09	1.000000	2.62108e-08	1.000000

100000000. Pa, 2750.00000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	8.05113e-13 (1.00)	1.32743e-13 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.835125	0.835125	0.00000	0.00000
PhCH2CCH+H	0.0749908	0.910116	0.454835	0.454835

PhCHCCH2+H	0.0263774	0.936493	0.159985	0.614820
Indene+H	0.0180956	0.954589	0.109754	0.724574
Ph+Allene	0.0145523	0.969141	0.0882624	0.812836
rad20	0.00745398	0.976595	0.0452099	0.858046
PAH3+H	0.00489149	0.981487	0.0296679	0.887714
rad21	0.00181432	0.983301	0.0110042	0.898718
PAH7+H	0.00175585	0.985057	0.0106496	0.909368
rad50	0.00112924	0.986186	0.00684906	0.916217
rad39	0.00102524	0.987211	0.00621830	0.922435
PhCCH+CH3	0.000987540	0.988199	0.00598963	0.928425
PAH9+H	0.000949649	0.989148	0.00575982	0.934185
rad51	0.000926414	0.990075	0.00561889	0.939804
rad71	0.000689904	0.990765	0.00418441	0.943988
Ph+MeAc	0.000651268	0.991416	0.00395008	0.947938
rad11	0.000649903	0.992066	0.00394180	0.951880
rad22	0.000603236	0.992669	0.00365875	0.955539
rad38	0.000582106	0.993251	0.00353059	0.959069
rad18	0.000529545	0.993781	0.00321180	0.962281
rad30	0.000511522	0.994292	0.00310249	0.965384
rad19anti	0.000449205	0.994742	0.00272452	0.968108
rad35	0.000418437	0.995160	0.00253791	0.970646
rad9	0.000415211	0.995575	0.00251834	0.973164
rad45	0.000372307	0.995947	0.00225812	0.975423
rad59	0.000329692	0.996277	0.00199965	0.977422
rad23	0.000311050	0.996588	0.00188659	0.979309
rad47	0.000304327	0.996893	0.00184581	0.981155
rad46	0.000293725	0.997186	0.00178150	0.982936
PhCCCH3+H	0.000243235	0.997429	0.00147527	0.984411
rad8	0.000238945	0.997668	0.00144925	0.985861
rad67	0.000223692	0.997892	0.00135674	0.987217
rad73	0.000221585	0.998114	0.00134396	0.988561
rad6	0.000198371	0.998312	0.00120316	0.989764
PAH1+H	0.000186527	0.998499	0.00113132	0.990896
rad19syn	0.000182352	0.998681	0.00110600	0.992002
PAH10+CH3	0.000158971	0.998840	0.000964194	0.992966
rad52	0.000150934	0.998991	0.000915443	0.993881
rad60syn	0.000146171	0.999137	0.000886560	0.994768
rad58	0.000132945	0.999270	0.000806339	0.995574
rad72	0.000129798	0.999400	0.000787252	0.996362
rad60anti	0.000109434	0.999509	0.000663738	0.997025
rad36	6.75290e-05	0.999577	0.000409577	0.997435
PAH8+H	6.70577e-05	0.999644	0.000406719	0.997842
rad24	6.10051e-05	0.999705	0.000370009	0.998212
rad15	4.39413e-05	0.999749	0.000266513	0.998478
PhcycC3H3_A+H	4.11443e-05	0.999790	0.000249549	0.998728
rad70	3.73509e-05	0.999827	0.000226541	0.998954
rad12	3.00829e-05	0.999857	0.000182459	0.999137
rad65	2.35559e-05	0.999881	0.000142872	0.999280
rad28	2.21523e-05	0.999903	0.000134359	0.999414
rad34	1.73747e-05	0.999920	0.000105381	0.999519
rad37	1.60365e-05	0.999931	6.45123e-05	0.999584
rad54	8.58695e-06	0.999940	5.20816e-05	0.999636
rad7	8.46787e-06	0.999948	5.13594e-05	0.999687
rad68syn	6.52625e-06	0.999955	3.95831e-05	0.999727
rad64	5.60083e-06	0.999960	3.39702e-05	0.999761
rad26	4.72277e-06	0.999965	2.86446e-05	0.999789
rad40syn	4.70046e-06	0.999970	2.85093e-05	0.999818
rad25	4.58757e-06	0.999974	2.78246e-05	0.999846
rad68anti	4.14572e-06	0.999978	2.51446e-05	0.999871
rad40anti	3.69980e-06	0.999982	2.24400e-05	0.999893
rad56	2.78019e-06	0.999985	1.68624e-05	0.999910
rad13	2.32312e-06	0.999987	1.40902e-05	0.999924
rad62	2.17459e-06	0.999989	1.31893e-05	0.999937
rad10	2.06429e-06	0.999991	1.25203e-05	0.999950
rad5	1.93218e-06	0.999993	1.17191e-05	0.999962
rad61	1.84393e-06	0.999995	1.11838e-05	0.999973
rad53	1.50230e-06	0.999997	9.11175e-06	0.999982
rad55	1.07230e-06	0.999998	6.50374e-06	0.999989
rad42	5.55919e-07	0.999998	3.37177e-06	0.999992
rad43	4.33930e-07	0.999999	2.63188e-06	0.999995
rad33	2.88151e-07	0.999999	1.74769e-06	0.999996
rad2	2.74477e-07	0.999999	1.66476e-06	0.999998
rad14	1.30816e-07	0.999999	7.93428e-07	0.999999
rad1	1.30766e-07	1.000000	7.93124e-07	1.000000
rad41	1.24411e-07	1.000000	7.54581e-07	1.000000
rad27	3.29737e-08	1.000000	1.99992e-07	1.000000
rad3	8.06393e-09	1.000000	4.89094e-08	1.000000
rad4	4.48467e-09	1.000000	2.72005e-08	1.000000

10000000. Pa, 3000.00000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 1.15309e-12 (1.00) 1.87351e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837523	0.837523	0.00000	0.00000
PhCH2CCH+H	0.0780128	0.915536	0.480146	0.480146
PhCHCCH2+H	0.0255322	0.941068	0.157143	0.637289
Indene+H	0.0171271	0.958195	0.105412	0.742701
Ph+Allene	0.0146289	0.972824	0.0900366	0.832738
rad20	0.00556762	0.978392	0.0342671	0.867005
PAH3+H	0.00438470	0.982776	0.0269865	0.893991
PAH7+H	0.00162322	0.984400	0.00999043	0.903982
rad21	0.00152100	0.985921	0.00936133	0.913343
rad50	0.00107210	0.986993	0.00659848	0.919941
rad39	0.000971082	0.987964	0.00597672	0.925918
PhCCH+CH3	0.000926664	0.988890	0.00570334	0.931621
PAH9+H	0.000902187	0.989793	0.00555270	0.937174
rad51	0.000881674	0.990674	0.00542644	0.942601
rad71	0.000659312	0.991334	0.00405787	0.946659
rad11	0.000635519	0.991969	0.00391143	0.950570
Ph+MeAc	0.000633231	0.992602	0.00389735	0.954467
rad38	0.000555895	0.993158	0.00342137	0.957889
rad22	0.000531371	0.993690	0.00327043	0.961159
rad30	0.000482060	0.994172	0.00296694	0.964126
rad19anti	0.000444210	0.994616	0.00273398	0.966860
rad18	0.000421477	0.995037	0.00259406	0.969454
rad9	0.000413264	0.995451	0.00254352	0.971998
rad35	0.000388579	0.995839	0.00239159	0.974389
rad45	0.000339416	0.996179	0.00208900	0.976478
rad59	0.000298693	0.996477	0.00183836	0.978317
rad23	0.000293124	0.996770	0.00180409	0.980121
rad46	0.000279472	0.997050	0.00172007	0.981841
rad47	0.000271482	0.997321	0.00167089	0.983512
rad8	0.000232233	0.997554	0.00142932	0.984941
PhCCCH3+H	0.000230123	0.997784	0.00141634	0.986357
rad67	0.000216590	0.998000	0.00133305	0.987690
rad6	0.000213977	0.998214	0.00131697	0.989007
rad73	0.000211478	0.998426	0.00130159	0.990309
rad19syn	0.000172105	0.998598	0.00105925	0.991368
PAH1+H	0.000170366	0.998768	0.00104855	0.992417
PAH10+CH3	0.000149559	0.998918	0.000920491	0.993337
rad52	0.000143731	0.999062	0.000884624	0.994222
rad60syn	0.000134604	0.999196	0.000828449	0.995050
rad72	0.000124241	0.999320	0.000764668	0.995815
rad58	0.000115972	0.999436	0.000713775	0.996529
rad60anti	0.000100520	0.999537	0.000618673	0.997147
rad36	6.15483e-05	0.999598	0.000378812	0.997526
PAH8+H	6.11257e-05	0.999660	0.000376210	0.997902
rad24	5.41378e-05	0.999714	0.000333202	0.998236
PhcycC3H3_A+H	4.35670e-05	0.999757	0.000268142	0.998504
rad15	4.29296e-05	0.999800	0.000264219	0.998768
rad70	3.52629e-05	0.999835	0.000217033	0.998985
rad12	2.87426e-05	0.999864	0.000176902	0.999162
rad65	2.22775e-05	0.999886	0.000137111	0.999299
rad28	2.11167e-05	0.999908	0.000129967	0.999429
rad34	1.62687e-05	0.999924	0.000100129	0.999529
rad37	1.01181e-05	0.999934	6.22736e-05	0.999591
rad7	9.03833e-06	0.999943	5.56282e-05	0.999647
rad54	8.67948e-06	0.999952	5.34196e-05	0.999700
rad68syn	6.00511e-06	0.999958	3.69597e-05	0.999737
rad64	5.10252e-06	0.999963	3.14045e-05	0.999769
rad25	4.50098e-06	0.999967	2.77022e-05	0.999796
rad26	4.48723e-06	0.999972	2.76176e-05	0.999824
rad40syn	4.30203e-06	0.999976	2.64777e-05	0.999851
rad68anti	3.81509e-06	0.999980	2.34807e-05	0.999874
rad40anti	3.38135e-06	0.999983	2.08112e-05	0.999895
rad56	2.75908e-06	0.999986	1.69813e-05	0.999912
rad13	2.41673e-06	0.999988	1.48743e-05	0.999927
rad62	2.03680e-06	0.999990	1.25359e-05	0.999939
rad10	1.89458e-06	0.999992	1.16606e-05	0.999951
rad5	1.81570e-06	0.999994	1.11751e-05	0.999962
rad61	1.72478e-06	0.999996	1.06155e-05	0.999973
rad53	1.49609e-06	0.999997	9.20800e-06	0.999982
rad55	1.08012e-06	0.999998	6.64784e-06	0.999989
rad42	5.19813e-07	0.999999	3.19929e-06	0.999992
rad43	4.07322e-07	0.999999	2.50694e-06	0.999994
rad33	2.95414e-07	1.000000	1.81819e-06	0.999996

rad2	2.61232e-07	1.000000	1.60780e-06	0.999998
rad1	1.25559e-07	1.00000	7.72776e-07	0.999998
rad14	1.16855e-07	1.00000	7.19210e-07	0.999999
rad41	1.16128e-07	1.00000	7.14733e-07	1.000000
rad27	3.00914e-08	1.00000	1.85203e-07	1.00000
rad3	8.09393e-09	1.00000	4.98157e-08	1.00000
rad4	4.58696e-09	1.00000	2.82314e-08	1.00000

100000000. Pa, 3250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.58309e-12 (1.00)	2.61172e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.835024	0.835024	0.00000	0.00000
PhCH2CCH+H	0.0840477	0.919072	0.509454	0.509454
PhCHCCH2+H	0.0254516	0.944523	0.154275	0.663729
Indene+H	0.0159815	0.960505	0.0968718	0.760601
Ph+Allene	0.0152621	0.975767	0.0925112	0.853112
rad20	0.00419267	0.979960	0.0254138	0.878526
PAH3+H	0.00403121	0.983991	0.0244351	0.902961
PAH7+H	0.00150881	0.985500	0.00914564	0.912107
rad21	0.00125559	0.986755	0.00761076	0.919717
rad50	0.00100550	0.987761	0.00609481	0.925812
rad39	0.000909791	0.988670	0.00551469	0.931327
PhCCH+CH3	0.000893531	0.989564	0.00541613	0.936743
PAH9+H	0.000845262	0.990409	0.00512354	0.941866
rad51	0.000828225	0.991237	0.00502028	0.946887
Ph+MeAc	0.000628864	0.991866	0.00381185	0.950699
rad71	0.000621683	0.992488	0.00376832	0.954467
rad11	0.000596773	0.993085	0.00361733	0.958084
rad38	0.000524304	0.993609	0.00317806	0.961262
rad30	0.000455792	0.994065	0.00276278	0.964025
rad22	0.000450583	0.994515	0.00273121	0.966756
rad19anti	0.000449447	0.994965	0.00272432	0.969481
rad9	0.000414834	0.995380	0.00251451	0.971995
rad35	0.000366026	0.995746	0.00221866	0.974214
rad18	0.000327261	0.996073	0.00198369	0.976197
rad45	0.000306509	0.996380	0.00185790	0.978055
rad59	0.000276948	0.996657	0.00167872	0.979734
rad23	0.000270204	0.996927	0.00163784	0.981372
rad46	0.000262742	0.997189	0.00159261	0.982965
rad47	0.000240366	0.997430	0.00145698	0.984422
rad8	0.000227176	0.997657	0.00137703	0.985799
PhCCCH3+H	0.000223601	0.997881	0.00135536	0.987154
rad6	0.000222034	0.998103	0.00134586	0.988500
rad67	0.000213846	0.998316	0.00129623	0.989796
rad73	0.000199178	0.998516	0.00120731	0.991003
rad19syn	0.000168645	0.998684	0.00102224	0.992026
PAH1+H	0.000155501	0.998840	0.000942570	0.992968
PAH10+CH3	0.000142238	0.998982	0.000862172	0.993830
rad52	0.000135108	0.999117	0.000818953	0.994649
rad60syn	0.000126125	0.999243	0.000764508	0.995414
rad72	0.000117311	0.999361	0.000711080	0.996125
rad58	0.000104019	0.999465	0.000630511	0.996755
rad60anti	9.40458e-05	0.999559	0.000570057	0.997325
PAH8+H	5.64908e-05	0.999615	0.000342418	0.997668
rad36	5.55771e-05	0.999671	0.000336880	0.998005
rad24	4.73309e-05	0.999718	0.000286896	0.998292
PhcycC3H3_A+H	4.60555e-05	0.999764	0.000279165	0.998571
rad15	4.24687e-05	0.999807	0.000257424	0.998828
rad70	3.41414e-05	0.999841	0.000206948	0.999035
rad12	2.82003e-05	0.999869	0.000170936	0.999206
rad65	2.07342e-05	0.999890	0.000125680	0.999332
rad28	1.98693e-05	0.999910	0.000120437	0.999452
rad34	1.56001e-05	0.999925	9.45596e-05	0.999547
rad37	9.76768e-06	0.999935	5.92066e-05	0.999606
rad7	9.63331e-06	0.999945	5.83922e-05	0.999664
rad54	8.87348e-06	0.999953	5.37865e-05	0.999718
rad68syn	5.62887e-06	0.999959	3.41193e-05	0.999752
rad64	4.64137e-06	0.999964	2.81336e-05	0.999780
rad25	4.42311e-06	0.999968	2.68107e-05	0.999807
rad26	4.32019e-06	0.999972	2.61868e-05	0.999833
rad40syn	4.00043e-06	0.999976	2.42486e-05	0.999858
rad68anti	3.57661e-06	0.999980	2.16796e-05	0.999879
rad40anti	3.13734e-06	0.999983	1.90169e-05	0.999898
rad56	2.75488e-06	0.999986	1.66987e-05	0.999915
rad13	2.50373e-06	0.999988	1.51763e-05	0.999930

rad62	1.91122e-06	0.999990	1.15849e-05	0.999942
rad10	1.79636e-06	0.999992	1.08886e-05	0.999953
rad5	1.75949e-06	0.999994	1.06651e-05	0.999963
rad61	1.62658e-06	0.999995	9.85951e-06	0.999973
rad53	1.50090e-06	0.999997	9.09768e-06	0.999982
rad55	1.09964e-06	0.999998	6.66548e-06	0.999989
rad42	4.86197e-07	0.999999	2.94708e-06	0.999992
rad43	3.91257e-07	0.999999	2.37160e-06	0.999994
rad33	3.05421e-07	0.999999	1.85131e-06	0.999996
rad2	2.58080e-07	1.000000	1.56435e-06	0.999998
rad1	1.24015e-07	1.000000	7.51715e-07	0.999998
rad41	1.10579e-07	1.000000	6.70275e-07	0.999999
rad14	1.06051e-07	1.000000	6.42829e-07	1.000000
rad27	2.85609e-08	1.000000	1.73121e-07	1.000000
rad3	8.20779e-09	1.000000	4.97514e-08	1.000000
rad4	4.71389e-09	1.000000	2.85732e-08	1.000000

100000000. Pa, 3500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.10046e-12 (1.00)	3.59487e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.828853	0.828853	0.00000	0.00000
PhCH2CCH+H	0.0921118	0.920965	0.538202	0.538202
PhCHCCH2+H	0.0260141	0.946979	0.151998	0.690200
Ph+Allene	0.0163056	0.963284	0.0952722	0.785472
Indene+H	0.0147703	0.978055	0.0863018	0.871774
PAH3+H	0.00382081	0.981876	0.0223247	0.894099
rad20	0.00319854	0.985074	0.0186888	0.912787
PAH7+H	0.00141856	0.986493	0.00828853	0.921076
rad21	0.00102858	0.987521	0.00600991	0.927086
rad50	0.000935346	0.988457	0.00546515	0.932551
PhCCH+CH3	0.000888319	0.989345	0.00519037	0.937741
rad39	0.000846532	0.990191	0.00494621	0.942688
PAH9+H	0.000785053	0.990977	0.00458700	0.947275
rad51	0.000770888	0.991747	0.00450424	0.951779
Ph+MeAc	0.000635279	0.992383	0.00371188	0.955491
rad71	0.000580694	0.992963	0.00339295	0.958884
rad11	0.000542642	0.993506	0.00317061	0.962054
rad38	0.000490247	0.993996	0.00286447	0.964919
rad19anti	0.000461594	0.994458	0.00269706	0.967616
rad30	0.000432201	0.994890	0.00252531	0.970141
rad9	0.000413606	0.995304	0.00241666	0.972558
rad22	0.000371830	0.995676	0.00217257	0.974730
rad35	0.000350424	0.996026	0.00204750	0.976778
rad45	0.000274859	0.996301	0.00160598	0.978384
rad59	0.000263562	0.996564	0.00153997	0.979924
rad18	0.000250597	0.996815	0.00146422	0.981388
rad23	0.000245076	0.997060	0.00143196	0.982820
rad46	0.000245041	0.997305	0.00143176	0.984252
PhCCCH3+H	0.000223409	0.997528	0.00130536	0.985557
rad8	0.000221873	0.997750	0.00129638	0.986854
rad6	0.000220052	0.997970	0.00128575	0.988139
rad67	0.000214418	0.998185	0.00125283	0.989392
rad47	0.000211894	0.998397	0.00123808	0.990630
rad73	0.000185863	0.998583	0.00108598	0.991716
rad19syn	0.000171953	0.998755	0.00100471	0.992721
PAH1+H	0.000143004	0.998898	0.000835563	0.993556
PAH10+CH3	0.000137164	0.999035	0.000801440	0.994358
rad52	0.000125846	0.999161	0.000735306	0.995093
rad60syn	0.000120308	0.999281	0.000702951	0.995796
rad72	0.000109699	0.999391	0.000640962	0.996437
rad58	9.71081e-05	0.999488	0.000567394	0.997005
rad60anti	8.96902e-05	0.999577	0.000524052	0.997529
PAH8+H	5.35371e-05	0.999631	0.000312813	0.997841
rad36	4.98403e-05	0.999681	0.000291213	0.998133
PhcycC3H3_A+H	4.80856e-05	0.999729	0.000280960	0.998414
rad15	4.19610e-05	0.999771	0.000245174	0.998659
rad24	4.09770e-05	0.999812	0.000239425	0.998898
rad70	3.40110e-05	0.999846	0.000198724	0.999097
rad12	2.80023e-05	0.999874	0.000163615	0.999260
rad65	1.91041e-05	0.999893	0.000111624	0.999372
rad28	1.84048e-05	0.999911	0.000107538	0.999480
rad34	1.54050e-05	0.999927	9.00101e-05	0.999570
rad7	1.00280e-05	0.999937	5.85930e-05	0.999628
rad37	9.57824e-06	0.999946	5.59648e-05	0.999684
rad54	9.12659e-06	0.999955	5.33259e-05	0.999738

rad68syn	5.42878e-06	0.999961	3.17199e-05	0.999769
rad25	4.30416e-06	0.999965	2.51489e-05	0.999794
rad64	4.25195e-06	0.999969	2.48438e-05	0.999819
rad26	4.17938e-06	0.999974	2.44198e-05	0.999844
rad40syn	3.82087e-06	0.999977	2.23250e-05	0.999866
rad68anti	3.45006e-06	0.999981	2.01584e-05	0.999886
rad40anti	2.98806e-06	0.999984	1.74590e-05	0.999904
rad56	2.76186e-06	0.999987	1.61373e-05	0.999920
rad13	2.53327e-06	0.999989	1.48017e-05	0.999935
rad62	1.80507e-06	0.999991	1.05468e-05	0.999945
rad5	1.75213e-06	0.999993	1.02375e-05	0.999955
rad10	1.75208e-06	0.999994	1.02373e-05	0.999966
rad61	1.55216e-06	0.999996	9.06913e-06	0.999975
rad53	1.51303e-06	0.999998	8.84048e-06	0.999983
rad55	1.12630e-06	0.999999	6.58086e-06	0.999990
rad42	4.56937e-07	0.999999	2.66985e-06	0.999993
rad43	3.86667e-07	0.999999	2.25926e-06	0.999995
rad33	3.11708e-07	1.000000	1.82128e-06	0.999997
rad2	2.60310e-07	1.000000	1.52097e-06	0.999998
rad1	1.23953e-07	1.000000	7.24245e-07	0.999999
rad41	1.08077e-07	1.000000	6.31485e-07	1.000000
rad14	9.78339e-08	1.000000	5.71635e-07	1.000000
rad27	2.80282e-08	1.000000	1.63766e-07	1.000000
rad3	8.24958e-09	1.000000	4.82016e-08	1.000000
rad4	4.77430e-09	1.000000	2.78958e-08	1.000000

100000000. Pa, 3750.00000 K

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

Total | 2.70978e-12 (1.00) | 4.87370e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.820144	0.820144	0.000000	0.000000
PhCH2CCH+H	0.101396	0.921540	0.563761	0.563761
PhCHCCH2+H	0.0270732	0.948613	0.150527	0.714288
Ph+Allene	0.0176304	0.966244	0.0980254	0.812313
Indene+H	0.0135666	0.979810	0.0754305	0.887744
PAH3+H	0.00371992	0.983530	0.0206828	0.908427
rad20	0.00247791	0.986008	0.0137772	0.922204
PAH7+H	0.00135207	0.987360	0.00751750	0.929721
PhCCH+CH3	0.000910370	0.988270	0.00506166	0.934783
rad50	0.000865574	0.989136	0.00481260	0.939596
rad21	0.000840705	0.989977	0.00467433	0.944270
rad39	0.000784538	0.990761	0.00436204	0.948632
PAH9+H	0.000725633	0.991487	0.00403452	0.952667
rad51	0.000712980	0.992200	0.00396417	0.956631
Ph+MeAc	0.000648546	0.992848	0.00360592	0.960237
rad71	0.000538953	0.993387	0.00299658	0.963233
rad11	0.000482558	0.993870	0.00268302	0.965916
rad19anti	0.000476239	0.994346	0.00264789	0.968564
rad38	0.000455643	0.994802	0.00253338	0.971098
rad30	0.000410329	0.995212	0.00228143	0.973379
rad9	0.000405329	0.995617	0.00225363	0.975563
rad35	0.000340112	0.995958	0.00189102	0.977524
rad22	0.000301545	0.996259	0.00167659	0.979200
rad59	0.000256333	0.996515	0.00142521	0.980625
rad45	0.000245157	0.996761	0.00136307	0.981988
PhCCCH3+H	0.000228897	0.996990	0.00127267	0.983261
rad46	0.000227345	0.997217	0.00126404	0.984525
rad23	0.000219334	0.997436	0.00121950	0.985745
rad67	0.000216897	0.997653	0.00120595	0.986951
rad8	0.000215173	0.997868	0.00119637	0.988147
rad6	0.000208901	0.998077	0.00116149	0.989308
rad18	0.000190801	0.998268	0.00106085	0.990369
rad47	0.000186430	0.998454	0.00103655	0.991406
rad19syn	0.000181587	0.998636	0.00100962	0.992416
rad73	0.000172364	0.998808	0.000958347	0.993374
PAH10+CH3	0.000134030	0.998942	0.000745207	0.994119
PAH1+H	0.000133357	0.999076	0.000741465	0.994861
rad52	0.000116482	0.999192	0.000647640	0.995508
rad60syn	0.000116341	0.999309	0.000646855	0.996155
rad72	0.000101900	0.999410	0.000566562	0.996722
rad58	9.43747e-05	0.999505	0.000524724	0.997246
rad60anti	8.68227e-05	0.999592	0.000482735	0.997729
PAH8+H	5.25759e-05	0.999644	0.000292323	0.998021
PhcycC3H3_A+H	4.94939e-05	0.999694	0.000275186	0.998297
rad36	4.44595e-05	0.999738	0.000247195	0.998544
rad15	4.09447e-05	0.999779	0.000227653	0.998771

rad24	3.52670e-05	0.999814	0.000196085	0.998967
rad70	3.47893e-05	0.999849	0.000193429	0.999161
rad12	2.77428e-05	0.999877	0.000154250	0.999315
rad65	1.75083e-05	0.999894	9.73464e-05	0.999413
rad28	1.67403e-05	0.999911	9.30761e-05	0.999506
rad34	1.56708e-05	0.999927	8.71295e-05	0.999593
rad7	1.00987e-05	0.999937	5.61490e-05	0.999649
rad37	9.50202e-06	0.999946	5.28313e-05	0.999702
rad54	9.41907e-06	0.999956	5.23701e-05	0.999754
rad68syn	5.42252e-06	0.999961	3.01493e-05	0.999784
rad25	4.12911e-06	0.999965	2.29579e-05	0.999807
rad26	4.01864e-06	0.999969	2.23437e-05	0.999830
rad64	3.95045e-06	0.999973	2.19645e-05	0.999851
rad40syn	3.78133e-06	0.999977	2.10242e-05	0.999872
rad68anti	3.44660e-06	0.999981	1.91631e-05	0.999892
rad40anti	2.94877e-06	0.999984	1.63952e-05	0.999908
rad56	2.78739e-06	0.999986	1.54979e-05	0.999924
rad13	2.48528e-06	0.999989	1.38181e-05	0.999937
rad5	1.77185e-06	0.999991	9.85148e-06	0.999947
rad10	1.73860e-06	0.999992	9.66661e-06	0.999957
rad62	1.72505e-06	0.999994	9.59127e-06	0.999966
rad53	1.53512e-06	0.999996	8.53527e-06	0.999975
rad61	1.50024e-06	0.999997	8.34133e-06	0.999983
rad55	1.15865e-06	0.999998	6.44208e-06	0.999990
rad42	4.34037e-07	0.999999	2.41325e-06	0.999992
rad43	3.93030e-07	0.999999	2.18525e-06	0.999994
rad33	3.10679e-07	0.999999	1.72738e-06	0.999996
rad2	2.63749e-07	1.000000	1.46645e-06	0.999998
rad1	1.23471e-07	1.000000	6.86499e-07	0.999998
rad41	1.08648e-07	1.000000	6.04084e-07	0.999999
rad14	9.15346e-08	1.000000	5.08933e-07	0.999999
rad27	2.80437e-08	1.000000	1.55923e-07	1.000000
rad3	8.14049e-09	1.000000	4.52612e-08	1.000000
rad4	4.72628e-09	1.000000	2.62781e-08	1.000000

100000000. Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.49449e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.809823	0.809823	0.00000	0.00000
PhCH2CCH+H	0.111289	0.921112	0.585189	0.585189
PhCHCCH2+H	0.0284923	0.949604	0.149820	0.735009
Ph+Allene	0.0191356	0.968740	0.100620	0.835629
Indene+H	0.0124144	0.981154	0.0652782	0.900907
PAH3+H	0.00369179	0.984846	0.0194124	0.920320
rad20	0.00195089	0.986797	0.0102583	0.930578
PAH7+H	0.00130582	0.988103	0.00686637	0.937444
PhCCH+CH3	0.000958637	0.989061	0.00504077	0.942485
rad50	0.000798663	0.989860	0.00419959	0.946685
rad39	0.000725738	0.990586	0.00381613	0.950501
rad21	0.000688143	0.991274	0.00361844	0.954119
PAH9+H	0.000669431	0.991943	0.00352005	0.957639
Ph+MeAc	0.000664775	0.992608	0.00349556	0.961135
rad51	0.000656716	0.993265	0.00345319	0.964588
rad71	0.000498289	0.993763	0.00262014	0.967208
rad19anti	0.000489245	0.994252	0.00257258	0.969781
rad11	0.000423382	0.994676	0.00222626	0.972007
rad38	0.000421710	0.995098	0.00221746	0.974224
rad30	0.000389485	0.995487	0.00204802	0.976272
rad9	0.000388474	0.995875	0.00204270	0.978315
rad35	0.000333233	0.996209	0.00175223	0.980067
rad59	0.000252997	0.996462	0.00133033	0.981398
rad22	0.000242276	0.996704	0.00127395	0.982672
PhCCCH3+H	0.000239284	0.996943	0.00125822	0.983930
rad67	0.000219981	0.997163	0.00115672	0.985087
rad45	0.000217754	0.997381	0.00114501	0.986232
rad46	0.000210251	0.997591	0.00110556	0.987337
rad8	0.000206594	0.997798	0.00108633	0.988424
rad19syn	0.000196760	0.997995	0.00103462	0.989458
rad23	0.000194168	0.998189	0.00102099	0.990479
rad6	0.000191322	0.998380	0.00100602	0.991485
rad47	0.000164022	0.998544	0.000862471	0.992348
rad73	0.000159256	0.998703	0.000837410	0.993185
rad18	0.000145326	0.998849	0.000764164	0.993949
PAH10+CH3	0.000132343	0.998981	0.000695897	0.994645
PAH1+H	0.000126655	0.999108	0.000665987	0.995311

rad60syn	0.000113463	0.999221	0.000596617	0.995908
rad52	0.000107371	0.999329	0.000564585	0.996472
rad58	9.46939e-05	0.999423	0.000497926	0.996970
rad72	9.42668e-05	0.999518	0.000495680	0.997466
rad60anti	8.48436e-05	0.999602	0.000446130	0.997912
PAH8+H	5.38171e-05	0.999656	0.000282985	0.998195
PhcycC3H3_A+H	5.03747e-05	0.999707	0.000264884	0.998460
rad36	3.94959e-05	0.999746	0.000207680	0.998668
rad15	3.91985e-05	0.999785	0.000206116	0.998874
rad70	3.63277e-05	0.999822	0.000191021	0.999065
rad24	3.02608e-05	0.999852	0.000159119	0.999224
rad12	2.71528e-05	0.999879	0.000142777	0.999367
rad34	1.63485e-05	0.999895	8.59647e-05	0.999453
rad65	1.60254e-05	0.999911	8.42656e-05	0.999537
rad28	1.49573e-05	0.999926	7.86496e-05	0.999615
rad7	9.82631e-06	0.999936	5.16693e-05	0.999667
rad54	9.74046e-06	0.999946	5.12180e-05	0.999718
rad37	9.47794e-06	0.999955	4.98375e-05	0.999768
rad68syn	5.61379e-06	0.999961	2.95188e-05	0.999798
rad25	3.90500e-06	0.999965	2.05336e-05	0.999818
rad40syn	3.89121e-06	0.999969	2.04610e-05	0.999839
rad26	3.81121e-06	0.999973	2.00404e-05	0.999859
rad64	3.74048e-06	0.999976	1.96685e-05	0.999878
rad68anti	3.56845e-06	0.999980	1.87639e-05	0.999897
rad40anti	3.02839e-06	0.999983	1.59241e-05	0.999913
rad56	2.84375e-06	0.999986	1.49532e-05	0.999928
rad13	2.36508e-06	0.999988	1.24362e-05	0.999940
rad5	1.79882e-06	0.999990	9.45868e-06	0.999950
rad10	1.73439e-06	0.999992	9.11990e-06	0.999959
rad62	1.67705e-06	0.999993	8.81836e-06	0.999968
rad53	1.57203e-06	0.999995	8.26614e-06	0.999976
rad61	1.46824e-06	0.999996	7.72041e-06	0.999984
rad55	1.19639e-06	0.999998	6.29092e-06	0.999990
rad42	4.19519e-07	0.999998	2.20594e-06	0.999992
rad43	4.08681e-07	0.999998	2.14895e-06	0.999995
rad33	3.01573e-07	0.999999	1.58575e-06	0.999996
rad2	2.65493e-07	0.999999	1.39603e-06	0.999998
rad1	1.21352e-07	0.999999	6.38104e-07	0.999998
rad41	1.12091e-07	0.999999	5.89406e-07	0.999999
rad14	8.65510e-08	0.999999	4.55108e-07	0.999999
rad27	2.81837e-08	0.999999	1.48197e-07	0.999999
rad3	7.87042e-09	0.999999	4.13848e-08	0.999999
rad4	4.56942e-09	0.999999	2.40272e-08	0.999999

10000000.0 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999959	0.999959	0.999959	0.999959
rad21	3.64013e-05	0.999995	3.64013e-05	0.999995
rad18	5.08644e-06	1.00000	5.08644e-06	1.00000
rad22	4.00031e-10	1.00000	4.00031e-10	1.00000
rad24	1.46899e-11	1.00000	1.46899e-11	1.00000
Indene+H	1.18835e-11	1.00000	1.18835e-11	1.00000
Benzyl+C2H2	8.63849e-12	1.00000	0.00000	1.00000
rad45	7.92036e-14	1.00000	7.92036e-14	1.00000
rad11	4.10044e-14	1.00000	4.10044e-14	1.00000
rad36	1.55471e-14	1.00000	1.55471e-14	1.00000
rad23	3.40139e-18	1.00000	3.40139e-18	1.00000
rad6	4.56331e-22	1.00000	4.56331e-22	1.00000
rad30	4.07057e-25	1.00000	4.07057e-25	1.00000
rad15	8.39333e-28	1.00000	8.39333e-28	1.00000
rad13	1.31475e-32	1.00000	1.31475e-32	1.00000
rad25	5.10669e-33	1.00000	5.10669e-33	1.00000
rad7	2.46608e-33	1.00000	2.46608e-33	1.00000
rad8	9.97343e-34	1.00000	9.97343e-34	1.00000
rad38	2.19715e-35	1.00000	2.19715e-35	1.00000
rad33	1.86247e-35	1.00000	1.86247e-35	1.00000
PhCHCCH2+H	5.91146e-38	1.00000	5.91146e-38	1.00000
rad35	3.58365e-38	1.00000	3.58365e-38	1.00000
PAH9+H	1.59790e-38	1.00000	1.59790e-38	1.00000
rad60syn	1.16230e-39	1.00000	1.16230e-39	1.00000
rad9	2.19117e-40	1.00000	2.19117e-40	1.00000
rad60anti	5.37498e-41	1.00000	5.37498e-41	1.00000
rad46	1.88102e-41	1.00000	1.88102e-41	1.00000
rad28	1.21612e-41	1.00000	1.21612e-41	1.00000

rad3	3.96780e-43	1.00000	3.96780e-43	1.00000
rad4	2.55855e-43	1.00000	2.55855e-43	1.00000
Ph+Allene	1.26884e-43	1.00000	1.26884e-43	1.00000
PhCH2CCH+H	8.25897e-44	1.00000	8.25897e-44	1.00000
PAH7+H	8.87627e-46	1.00000	8.87627e-46	1.00000
PAH3+H	5.18976e-48	1.00000	5.18976e-48	1.00000
rad59	2.54712e-48	1.00000	2.54712e-48	1.00000
rad26	1.01279e-49	1.00000	1.01279e-49	1.00000
rad31	5.85799e-52	1.00000	5.85799e-52	1.00000
rad2	9.86243e-53	1.00000	9.86243e-53	1.00000
rad1	2.34164e-53	1.00000	2.34164e-53	1.00000
rad39	1.15663e-55	1.00000	1.15663e-55	1.00000
rad50	5.21664e-56	1.00000	5.21664e-56	1.00000
rad14	1.14830e-57	1.00000	1.14830e-57	1.00000
PhCCH+CH3	1.01019e-57	1.00000	1.01019e-57	1.00000
rad10	4.28757e-58	1.00000	4.28757e-58	1.00000
rad12	3.33994e-61	1.00000	3.33994e-61	1.00000
rad37	7.46333e-63	1.00000	7.46333e-63	1.00000
Ph+MeAc	2.70547e-64	1.00000	2.70547e-64	1.00000
rad52	2.12762e-64	1.00000	2.12762e-64	1.00000
rad27	4.31756e-66	1.00000	4.31756e-66	1.00000
rad58	1.01999e-66	1.00000	1.01999e-66	1.00000
PhCCCH3+H	5.85778e-68	1.00000	5.85778e-68	1.00000
rad51	6.54115e-69	1.00000	6.54115e-69	1.00000
rad70	4.82836e-73	1.00000	4.82836e-73	1.00000
rad19syn	3.96257e-73	1.00000	3.96257e-73	1.00000
PAH10+CH3	1.28382e-73	1.00000	1.28382e-73	1.00000
rad54	4.80380e-74	1.00000	4.80380e-74	1.00000
rad47	1.63275e-75	1.00000	1.63275e-75	1.00000
rad65	4.00036e-76	1.00000	4.00036e-76	1.00000
rad5	3.56728e-77	1.00000	3.56728e-77	1.00000
rad34	4.45640e-78	1.00000	4.45640e-78	1.00000
rad55	5.58759e-80	1.00000	5.58759e-80	1.00000
PAH1+H	2.08315e-80	1.00000	2.08315e-80	1.00000
PhcycC3H3_A+H	1.40392e-81	1.00000	1.40392e-81	1.00000
rad62	6.50968e-86	1.00000	6.50968e-86	1.00000
rad43	4.57853e-91	1.00000	4.57853e-91	1.00000
rad42	2.62045e-95	1.00000	2.62045e-95	1.00000
rad41	1.26729e-98	1.00000	1.26729e-98	1.00000

10000000.0 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15918e-108 (1.00)	1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999916	0.999916	0.999916	0.999916
rad21	7.36642e-05	0.999990	7.36642e-05	0.999990
rad18	1.03021e-05	1.000000	1.03021e-05	1.000000
rad22	1.63944e-09	1.000000	1.63944e-09	1.000000
rad24	6.00526e-11	1.000000	6.00526e-11	1.000000
Indene+H	4.87480e-11	1.000000	4.87480e-11	1.000000
Benzyl+C2H2	2.02156e-11	1.000000	0.000000	1.000000
rad45	6.70759e-13	1.000000	6.70759e-13	1.000000
rad11	1.71380e-13	1.000000	1.71380e-13	1.000000
rad36	1.12956e-13	1.000000	1.12956e-13	1.000000
rad23	2.84665e-17	1.000000	2.84665e-17	1.000000
rad6	3.90808e-21	1.000000	3.90808e-21	1.000000
rad30	1.96212e-24	1.000000	1.96212e-24	1.000000
rad15	4.13336e-27	1.000000	4.13336e-27	1.000000
rad13	2.71679e-31	1.000000	2.71679e-31	1.000000
rad7	5.15085e-32	1.000000	5.15085e-32	1.000000
rad25	5.05215e-32	1.000000	5.05215e-32	1.000000
rad8	2.71519e-33	1.000000	2.71519e-33	1.000000
rad38	6.63428e-34	1.000000	6.63428e-34	1.000000
rad33	3.99862e-34	1.000000	3.99862e-34	1.000000
rad35	6.64368e-37	1.000000	6.64368e-37	1.000000
PhCHCCH2+H	6.14968e-37	1.000000	6.14968e-37	1.000000
PAH9+H	3.00200e-37	1.000000	3.00200e-37	1.000000
rad60syn	6.27876e-39	1.000000	6.27876e-39	1.000000
rad9	2.24581e-39	1.000000	2.24581e-39	1.000000
rad46	3.71000e-40	1.000000	3.71000e-40	1.000000
rad60anti	2.93281e-40	1.000000	2.93281e-40	1.000000
rad28	1.32373e-40	1.000000	1.32373e-40	1.000000
rad3	1.74252e-41	1.000000	1.74252e-41	1.000000
rad4	1.28229e-41	1.000000	1.28229e-41	1.000000
Ph+Allene	1.40022e-42	1.000000	1.40022e-42	1.000000
PhCH2CCH+H	2.43425e-43	1.000000	2.43425e-43	1.000000

PAH7+H	9.93987e-45	1.000000	9.93987e-45	1.000000
PAH3+H	3.00541e-47	1.000000	3.00541e-47	1.000000
rad59	1.47342e-47	1.000000	1.47342e-47	1.000000
rad26	1.16471e-48	1.000000	1.16471e-48	1.000000
rad31	4.12939e-50	1.000000	4.12939e-50	1.000000
rad2	1.49242e-50	1.000000	1.49242e-50	1.000000
rad1	3.32514e-51	1.000000	3.32514e-51	1.000000
rad39	2.55426e-54	1.000000	2.55426e-54	1.000000
rad50	1.16855e-54	1.000000	1.16855e-54	1.000000
rad14	1.04252e-55	1.000000	1.04252e-55	1.000000
PhCCH+CH3	1.02986e-55	1.000000	1.02986e-55	1.000000
rad10	9.92780e-57	1.000000	9.92780e-57	1.000000
rad12	7.73556e-60	1.000000	7.73556e-60	1.000000
rad37	1.73325e-61	1.000000	1.73325e-61	1.000000
Ph+MeAc	4.00263e-62	1.000000	4.00263e-62	1.000000
rad52	7.32425e-63	1.000000	7.32425e-63	1.000000
rad27	1.27941e-63	1.000000	1.27941e-63	1.000000
PhCCCH3+H	1.93410e-65	1.000000	1.93410e-65	1.000000
rad58	6.75761e-66	1.000000	6.75761e-66	1.000000
rad51	2.30047e-67	1.000000	2.30047e-67	1.000000
rad19syn	2.27081e-71	1.000000	2.27081e-71	1.000000
rad70	1.30299e-71	1.000000	1.30299e-71	1.000000
PAH10+CH3	3.21552e-72	1.000000	3.21552e-72	1.000000
rad54	2.80201e-72	1.000000	2.80201e-72	1.000000
rad47	4.32234e-74	1.000000	4.32234e-74	1.000000
rad65	1.08936e-74	1.000000	1.08936e-74	1.000000
rad5	1.94520e-75	1.000000	1.94520e-75	1.000000
rad34	1.24932e-76	1.000000	1.24932e-76	1.000000
rad55	3.38015e-78	1.000000	3.38015e-78	1.000000
PAH1+H	5.51061e-79	1.000000	5.51061e-79	1.000000
PhcycC3H3_A+H	8.51269e-80	1.000000	8.51269e-80	1.000000
rad62	1.35277e-83	1.000000	1.35277e-83	1.000000
rad43	1.84735e-88	1.000000	1.84735e-88	1.000000
rad42	4.37170e-93	1.000000	4.37170e-93	1.000000
rad41	6.95100e-97	1.000000	6.95100e-97	1.000000

10000000.0 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999874	0.999874	0.999874	0.999874
rad21	0.000110353	0.999984	0.000110353	0.999984
rad18	1.54591e-05	1.000000	1.54591e-05	1.000000
rad22	3.68455e-09	1.000000	3.68455e-09	1.000000
rad24	1.35202e-10	1.000000	1.35202e-10	1.000000
Indene+H	1.09762e-10	1.000000	1.09762e-10	1.000000
Benzyl+C2H2	3.92722e-11	1.000000	0.00000	1.000000
rad45	2.28543e-12	1.000000	2.28543e-12	1.000000
rad11	4.00515e-13	1.000000	4.00515e-13	1.000000
rad36	3.50568e-13	1.000000	3.50568e-13	1.000000
rad23	9.69338e-17	1.000000	9.69338e-17	1.000000
rad6	1.40331e-20	1.000000	1.40331e-20	1.000000
rad30	6.13552e-24	1.000000	6.13552e-24	1.000000
rad15	1.35201e-26	1.000000	1.35201e-26	1.000000
rad13	1.58789e-30	1.000000	1.58789e-30	1.000000
rad7	3.03617e-31	1.000000	3.03617e-31	1.000000
rad25	2.43900e-31	1.000000	2.43900e-31	1.000000
rad8	7.49601e-33	1.000000	7.49601e-33	1.000000
rad38	5.40197e-33	1.000000	5.40197e-33	1.000000
rad33	2.41448e-33	1.000000	2.41448e-33	1.000000
rad35	4.08072e-36	1.000000	4.08072e-36	1.000000
PhCHCCH2+H	3.29974e-36	1.000000	3.29974e-36	1.000000
PAH9+H	1.89589e-36	1.000000	1.89589e-36	1.000000
rad60syn	2.49437e-38	1.000000	2.49437e-38	1.000000
rad9	1.24652e-38	1.000000	1.24652e-38	1.000000
rad46	2.82945e-39	1.000000	2.82945e-39	1.000000
rad60anti	1.18995e-39	1.000000	1.18995e-39	1.000000
rad28	7.95800e-40	1.000000	7.95800e-40	1.000000
rad3	1.71141e-40	1.000000	1.71141e-40	1.000000
rad4	1.25602e-40	1.000000	1.25602e-40	1.000000
Ph+Allene	8.50650e-42	1.000000	8.50650e-42	1.000000
PhCH2CCH+H	7.94571e-43	1.000000	7.94571e-43	1.000000
PAH7+H	6.37750e-44	1.000000	6.37750e-44	1.000000
PAH3+H	1.38250e-46	1.000000	1.38250e-46	1.000000
rad59	6.76172e-47	1.000000	6.76172e-47	1.000000
rad26	7.95140e-48	1.000000	7.95140e-48	1.000000

rad31	5.00321e-49	1.000000	5.00321e-49	1.000000
rad2	2.90437e-49	1.000000	2.90437e-49	1.000000
rad1	5.91790e-50	1.000000	5.91790e-50	1.000000
rad39	2.31946e-53	1.000000	2.31946e-53	1.000000
rad50	1.19950e-53	1.000000	1.19950e-53	1.000000
PhCCH+CH3	1.89873e-54	1.000000	1.89873e-54	1.000000
rad14	1.72317e-54	1.000000	1.72317e-54	1.000000
rad10	1.00573e-55	1.000000	1.00573e-55	1.000000
rad12	7.84447e-59	1.000000	7.84447e-59	1.000000
rad37	1.76905e-60	1.000000	1.76905e-60	1.000000
Ph+MeAc	9.81582e-61	1.000000	9.81582e-61	1.000000
rad52	1.01223e-61	1.000000	1.01223e-61	1.000000
rad27	3.91417e-62	1.000000	3.91417e-62	1.000000
PhCCCH3+H	6.74546e-64	1.000000	6.74546e-64	1.000000
rad58	4.13868e-65	1.000000	4.13868e-65	1.000000
rad51	3.45652e-66	1.000000	3.45652e-66	1.000000
rad19syn	4.07497e-70	1.000000	4.07497e-70	1.000000
rad70	1.77447e-70	1.000000	1.77447e-70	1.000000
rad54	5.28595e-71	1.000000	5.28595e-71	1.000000
PAH10+CH3	3.94451e-71	1.000000	3.94451e-71	1.000000
rad47	6.47935e-73	1.000000	6.47935e-73	1.000000
rad65	1.45574e-73	1.000000	1.45574e-73	1.000000
rad5	3.99616e-74	1.000000	3.99616e-74	1.000000
rad34	1.84739e-75	1.000000	1.84739e-75	1.000000
rad55	7.02600e-77	1.000000	7.02600e-77	1.000000
PAH1+H	7.79492e-78	1.000000	7.79492e-78	1.000000
PhcycC3H3_A+H	1.77077e-78	1.000000	1.77077e-78	1.000000
rad62	5.38761e-82	1.000000	5.38761e-82	1.000000
rad43	1.16131e-86	1.000000	1.16131e-86	1.000000
rad42	1.95109e-91	1.000000	1.95109e-91	1.000000
rad41	1.58185e-95	1.000000	1.58185e-95	1.000000

10000000.0 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.31816e-70 (1.00)	2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999832	0.999832	0.999832	0.999832
rad21	0.000147273	0.999979	0.000147273	0.999979
rad18	2.06775e-05	1.000000	2.06775e-05	1.000000
rad22	6.57614e-09	1.000000	6.57614e-09	1.000000
rad24	2.42454e-10	1.000000	2.42454e-10	1.000000
Indene+H	1.96398e-10	1.000000	1.96398e-10	1.000000
Benzyl+C2H2	7.12668e-11	1.000000	0.000000	1.000000
rad45	5.49161e-12	1.000000	5.49161e-12	1.000000
rad36	7.90156e-13	1.000000	7.90156e-13	1.000000
rad11	7.53431e-13	1.000000	7.53431e-13	1.000000
rad23	2.33933e-16	1.000000	2.33933e-16	1.000000
rad6	3.65044e-20	1.000000	3.65044e-20	1.000000
rad30	1.74651e-23	1.000000	1.74651e-23	1.000000
rad15	4.10561e-26	1.000000	4.10561e-26	1.000000
rad13	5.88722e-30	1.000000	5.88722e-30	1.000000
rad7	1.13590e-30	1.000000	1.13590e-30	1.000000
rad25	9.67274e-31	1.000000	9.67274e-31	1.000000
rad38	2.85075e-32	1.000000	2.85075e-32	1.000000
rad8	2.37255e-32	1.000000	2.37255e-32	1.000000
rad33	9.27865e-33	1.000000	9.27865e-33	1.000000
rad35	1.69829e-35	1.000000	1.69829e-35	1.000000
PhCHCCH2+H	1.52126e-35	1.000000	1.52126e-35	1.000000
PAH9+H	8.23292e-36	1.000000	8.23292e-36	1.000000
rad60syn	9.97538e-38	1.000000	9.97538e-38	1.000000
rad9	6.09256e-38	1.000000	6.09256e-38	1.000000
rad46	1.65774e-38	1.000000	1.65774e-38	1.000000
rad60anti	4.90264e-39	1.000000	4.90264e-39	1.000000
rad28	4.33574e-39	1.000000	4.33574e-39	1.000000
rad3	9.79734e-40	1.000000	9.79734e-40	1.000000
rad4	7.08427e-40	1.000000	7.08427e-40	1.000000
Ph+Allene	4.67432e-41	1.000000	4.67432e-41	1.000000
PhCH2CCH+H	3.18446e-42	1.000000	3.18446e-42	1.000000
PAH7+H	3.81638e-43	1.000000	3.81638e-43	1.000000
PAH3+H	6.80227e-46	1.000000	6.80227e-46	1.000000
rad59	3.31560e-46	1.000000	3.31560e-46	1.000000
rad26	5.20494e-47	1.000000	5.20494e-47	1.000000
rad31	3.32444e-48	1.000000	3.32444e-48	1.000000
rad2	2.77496e-48	1.000000	2.77496e-48	1.000000
rad1	5.28499e-49	1.000000	5.28499e-49	1.000000
rad39	1.71070e-52	1.000000	1.71070e-52	1.000000

rad50	1.08124e-52	1.000000	1.08124e-52	1.000000
PhCCH+CH3	2.02124e-53	1.000000	2.02124e-53	1.000000
rad14	1.64127e-53	1.000000	1.64127e-53	1.000000
rad10	8.66863e-55	1.000000	8.66863e-55	1.000000
rad12	6.78251e-58	1.000000	6.78251e-58	1.000000
rad37	1.54434e-59	1.000000	1.54434e-59	1.000000
Ph+MeAc	1.38939e-59	1.000000	1.38939e-59	1.000000
rad52	1.22837e-60	1.000000	1.22837e-60	1.000000
rad27	5.59610e-61	1.000000	5.59610e-61	1.000000
PhCCCH3+H	1.12352e-62	1.000000	1.12352e-62	1.000000
rad58	3.05483e-64	1.000000	3.05483e-64	1.000000
rad51	4.77879e-65	1.000000	4.77879e-65	1.000000
rad19syn	5.64668e-69	1.000000	5.64668e-69	1.000000
rad70	2.30294e-69	1.000000	2.30294e-69	1.000000
rad54	7.88265e-70	1.000000	7.88265e-70	1.000000
PAH10+CH3	4.50317e-70	1.000000	4.50317e-70	1.000000
rad47	1.01310e-71	1.000000	1.01310e-71	1.000000
rad65	1.83344e-72	1.000000	1.83344e-72	1.000000
rad5	6.58298e-73	1.000000	6.58298e-73	1.000000
rad34	2.69455e-74	1.000000	2.69455e-74	1.000000
rad55	1.20653e-75	1.000000	1.20653e-75	1.000000
PAH1+H	1.09854e-76	1.000000	1.09854e-76	1.000000
PhcycC3H3_A+H	3.03998e-77	1.000000	3.03998e-77	1.000000
rad62	1.40178e-80	1.000000	1.40178e-80	1.000000
rad43	4.10604e-85	1.000000	4.10604e-85	1.000000
rad42	6.41686e-90	1.000000	6.41686e-90	1.000000
rad41	3.33499e-94	1.000000	3.33499e-94	1.000000

10000000.0 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.44107e-61 (1.00)	8.44107e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999789	0.999789	0.999789	0.999789
rad21	0.000184930	0.999974	0.000184930	0.999974
rad18	2.60328e-05	1.000000	2.60328e-05	1.000000
rad22	1.03978e-08	1.000000	1.03978e-08	1.000000
rad24	3.85990e-10	1.000000	3.85990e-10	1.000000
Indene+H	3.11480e-10	1.000000	3.11480e-10	1.000000
Benzyl+C2H2	1.23347e-10	1.000000	0.000000	1.000000
rad45	1.09898e-11	1.000000	1.09898e-11	1.000000
rad36	1.50706e-12	1.000000	1.50706e-12	1.000000
rad11	1.26762e-12	1.000000	1.26762e-12	1.000000
rad23	4.71451e-16	1.000000	4.71451e-16	1.000000
rad6	8.06484e-20	1.000000	8.06484e-20	1.000000
rad30	4.99965e-23	1.000000	4.99965e-23	1.000000
rad15	1.27553e-25	1.000000	1.27553e-25	1.000000
rad13	1.74347e-29	1.000000	1.74347e-29	1.000000
rad25	3.66182e-30	1.000000	3.66182e-30	1.000000
rad7	3.39860e-30	1.000000	3.39860e-30	1.000000
rad38	1.24702e-31	1.000000	1.24702e-31	1.000000
rad8	8.75043e-32	1.000000	8.75043e-32	1.000000
rad33	2.86343e-32	1.000000	2.86343e-32	1.000000
PhCHCCH2+H	6.93851e-35	1.000000	6.93851e-35	1.000000
rad35	5.85817e-35	1.000000	5.85817e-35	1.000000
PAH9+H	3.01602e-35	1.000000	3.01602e-35	1.000000
rad60syn	4.33392e-37	1.000000	4.33392e-37	1.000000
rad9	2.99450e-37	1.000000	2.99450e-37	1.000000
rad46	9.02723e-38	1.000000	9.02723e-38	1.000000
rad28	2.42675e-38	1.000000	2.42675e-38	1.000000
rad60anti	2.20795e-38	1.000000	2.20795e-38	1.000000
rad3	4.34226e-39	1.000000	4.34226e-39	1.000000
rad4	3.09626e-39	1.000000	3.09626e-39	1.000000
Ph+Allene	2.63758e-40	1.000000	2.63758e-40	1.000000
PhCH2CCH+H	1.55918e-41	1.000000	1.55918e-41	1.000000
PAH7+H	2.39447e-42	1.000000	2.39447e-42	1.000000
PAH3+H	3.79518e-45	1.000000	3.79518e-45	1.000000
rad59	1.84204e-45	1.000000	1.84204e-45	1.000000
rad26	3.64220e-46	1.000000	3.64220e-46	1.000000
rad2	1.92160e-47	1.000000	1.92160e-47	1.000000
rad31	1.68362e-47	1.000000	1.68362e-47	1.000000
rad1	3.47557e-48	1.000000	3.47557e-48	1.000000
rad39	1.22633e-51	1.000000	1.22633e-51	1.000000
rad50	1.00251e-51	1.000000	1.00251e-51	1.000000
PhCCH+CH3	1.72980e-52	1.000000	1.72980e-52	1.000000
rad14	1.25123e-52	1.000000	1.25123e-52	1.000000
rad10	7.48846e-54	1.000000	7.48846e-54	1.000000

rad12	5.89435e-57	1.000000	5.89435e-57	1.000000
Ph+MeAc	1.60399e-58	1.000000	1.60399e-58	1.000000
rad37	1.35845e-58	1.000000	1.35845e-58	1.000000
rad52	1.56545e-59	1.000000	1.56545e-59	1.000000
rad27	5.76371e-60	1.000000	5.76371e-60	1.000000
PhCCH3+H	1.37204e-61	1.000000	1.37204e-61	1.000000
rad58	2.78021e-63	1.000000	2.78021e-63	1.000000
rad51	7.18114e-64	1.000000	7.18114e-64	1.000000
rad19syn	7.54186e-68	1.000000	7.54186e-68	1.000000
rad70	3.24700e-68	1.000000	3.24700e-68	1.000000
rad54	1.15113e-68	1.000000	1.15113e-68	1.000000
PAH10+CH3	5.49403e-69	1.000000	5.49403e-69	1.000000
rad47	1.85675e-70	1.000000	1.85675e-70	1.000000
rad65	2.52869e-71	1.000000	2.52869e-71	1.000000
rad5	1.01787e-71	1.000000	1.01787e-71	1.000000
rad34	4.37268e-73	1.000000	4.37268e-73	1.000000
rad55	2.09121e-74	1.000000	2.09121e-74	1.000000
PAH1+H	1.73441e-75	1.000000	1.73441e-75	1.000000
PhcycC3H3_A+H	5.26588e-76	1.000000	5.26588e-76	1.000000
rad62	3.24290e-79	1.000000	3.24290e-79	1.000000
rad43	1.18840e-83	1.000000	1.18840e-83	1.000000
rad42	2.00926e-88	1.000000	2.00926e-88	1.000000
rad41	7.68352e-93	1.000000	7.68352e-93	1.000000

10000000.0 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.61998e-54 (1.00)	5.61998e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999745	0.999745	0.999745	0.999745
rad21	0.000223748	0.999969	0.000223748	0.999969
rad18	3.15893e-05	1.00000	3.15893e-05	1.00000
rad22	1.52745e-08	1.00000	1.52745e-08	1.00000
rad24	5.71934e-10	1.00000	5.71934e-10	1.00000
Indene+H	4.59192e-10	1.00000	4.59192e-10	1.00000
Benzyl+C2H2	2.06289e-10	1.00000	0.00000	1.00000
rad45	1.96940e-11	1.00000	1.96940e-11	1.00000
rad36	2.59957e-12	1.00000	2.59957e-12	1.00000
rad11	1.99755e-12	1.00000	1.99755e-12	1.00000
rad23	8.52423e-16	1.00000	8.52423e-16	1.00000
rad6	1.62363e-19	1.00000	1.62363e-19	1.00000
rad30	1.53230e-22	1.00000	1.53230e-22	1.00000
rad15	4.33837e-25	1.00000	4.33837e-25	1.00000
rad13	4.56537e-29	1.00000	4.56537e-29	1.00000
rad25	1.44046e-29	1.00000	1.44046e-29	1.00000
rad7	9.00629e-30	1.00000	9.00629e-30	1.00000
rad38	5.03174e-31	1.00000	5.03174e-31	1.00000
rad8	3.88709e-31	1.00000	3.88709e-31	1.00000
rad33	7.86798e-32	1.00000	7.86798e-32	1.00000
PhCHCCH2+H	3.41091e-34	1.00000	3.41091e-34	1.00000
rad35	1.82686e-34	1.00000	1.82686e-34	1.00000
PAH9+H	1.01832e-34	1.00000	1.01832e-34	1.00000
rad60syn	2.17034e-36	1.00000	2.17034e-36	1.00000
rad9	1.60783e-36	1.00000	1.60783e-36	1.00000
rad46	5.05365e-37	1.00000	5.05365e-37	1.00000
rad28	1.50638e-37	1.00000	1.50638e-37	1.00000
rad60anti	1.15132e-37	1.00000	1.15132e-37	1.00000
rad3	1.69797e-38	1.00000	1.69797e-38	1.00000
rad4	1.19651e-38	1.00000	1.19651e-38	1.00000
Ph+Allene	1.65295e-39	1.00000	1.65295e-39	1.00000
PhCH2CCH+H	9.49612e-41	1.00000	9.49612e-41	1.00000
PAH7+H	1.69201e-41	1.00000	1.69201e-41	1.00000
PAH3+H	2.51694e-44	1.00000	2.51694e-44	1.00000
rad59	1.21567e-44	1.00000	1.21567e-44	1.00000
rad26	2.91122e-45	1.00000	2.91122e-45	1.00000
rad2	1.15562e-46	1.00000	1.15562e-46	1.00000
rad31	7.54288e-47	1.00000	7.54288e-47	1.00000
rad1	2.00604e-47	1.00000	2.00604e-47	1.00000
rad50	1.04362e-50	1.00000	1.04362e-50	1.00000
rad39	9.44309e-51	1.00000	9.44309e-51	1.00000
PhCCH+CH3	1.40553e-51	1.00000	1.40553e-51	1.00000
rad14	8.98835e-52	1.00000	8.98835e-52	1.00000
rad10	7.10001e-53	1.00000	7.10001e-53	1.00000
rad12	5.63622e-56	1.00000	5.63622e-56	1.00000
Ph+MeAc	1.79169e-57	1.00000	1.79169e-57	1.00000
rad37	1.31756e-57	1.00000	1.31756e-57	1.00000
rad52	2.29616e-58	1.00000	2.29616e-58	1.00000

rad27	5.26407e-59	1.00000	5.26407e-59	1.00000
PhCCCH3+H	1.51205e-60	1.00000	1.51205e-60	1.00000
rad58	3.18935e-62	1.00000	3.18935e-62	1.00000
rad51	1.27669e-62	1.00000	1.27669e-62	1.00000
rad19syn	1.08610e-66	1.00000	1.08610e-66	1.00000
rad70	5.32221e-67	1.00000	5.32221e-67	1.00000
rad54	1.83225e-67	1.00000	1.83225e-67	1.00000
PAH10+CH3	7.70422e-68	1.00000	7.70422e-68	1.00000
rad47	4.25390e-69	1.00000	4.25390e-69	1.00000
rad65	4.15975e-70	1.00000	4.15975e-70	1.00000
rad5	1.62461e-70	1.00000	1.62461e-70	1.00000
rad34	8.38561e-72	1.00000	8.38561e-72	1.00000
rad55	4.03443e-73	1.00000	4.03443e-73	1.00000
PAH1+H	3.25171e-74	1.00000	3.25171e-74	1.00000
PhcycC3H3_A+H	1.01553e-74	1.00000	1.01553e-74	1.00000
rad62	7.72304e-78	1.00000	7.72304e-78	1.00000
rad43	3.36744e-82	1.00000	3.36744e-82	1.00000
rad42	6.77046e-87	1.00000	6.77046e-87	1.00000
rad41	2.08853e-91	1.00000	2.08853e-91	1.00000

10000000.0 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.28864e-49 (1.00)	7.28864e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999698	0.999698	0.999698	0.999698
rad21	0.000264148	0.999962	0.000264148	0.999962
rad18	3.74125e-05	1.000000	3.74125e-05	1.000000
rad22	2.13818e-08	1.000000	2.13818e-08	1.000000
rad24	8.08884e-10	1.000000	8.08884e-10	1.000000
Indene+H	6.45411e-10	1.000000	6.45411e-10	1.000000
Benzyl+C2H2	3.36638e-10	1.000000	0.000000	1.000000
rad45	3.28480e-11	1.000000	3.28480e-11	1.000000
rad36	4.20164e-12	1.000000	4.20164e-12	1.000000
rad11	3.02290e-12	1.000000	3.02290e-12	1.000000
rad23	1.43685e-15	1.000000	1.43685e-15	1.000000
rad6	3.09623e-19	1.000000	3.09623e-19	1.000000
rad30	5.23166e-22	1.000000	5.23166e-22	1.000000
rad15	1.72863e-24	1.000000	1.72863e-24	1.000000
rad13	1.11830e-28	1.000000	1.11830e-28	1.000000
rad25	6.28418e-29	1.000000	6.28418e-29	1.000000
rad7	2.23728e-29	1.000000	2.23728e-29	1.000000
rad8	2.24114e-30	1.000000	2.24114e-30	1.000000
rad38	1.97134e-30	1.000000	1.97134e-30	1.000000
rad33	2.03960e-31	1.000000	2.03960e-31	1.000000
PhCHCCH2+H	1.97352e-33	1.000000	1.97352e-33	1.000000
rad35	5.39699e-34	1.000000	5.39699e-34	1.000000
PAH9+H	3.30923e-34	1.000000	3.30923e-34	1.000000
rad60syn	1.36530e-35	1.000000	1.36530e-35	1.000000
rad9	1.03299e-35	1.000000	1.03299e-35	1.000000
rad46	3.15183e-36	1.000000	3.15183e-36	1.000000
rad28	1.13263e-36	1.000000	1.13263e-36	1.000000
rad60anti	7.57088e-37	1.000000	7.57088e-37	1.000000
rad3	6.31896e-38	1.000000	6.31896e-38	1.000000
rad4	4.40872e-38	1.000000	4.40872e-38	1.000000
Ph+Allene	1.26093e-38	1.000000	1.26093e-38	1.000000
PhCH2CCH+H	7.67709e-40	1.000000	7.67709e-40	1.000000
PAH7+H	1.46983e-40	1.000000	1.46983e-40	1.000000
PAH3+H	2.14942e-43	1.000000	2.14942e-43	1.000000
rad59	1.03251e-43	1.000000	1.03251e-43	1.000000
rad26	2.89604e-44	1.000000	2.89604e-44	1.000000
rad2	6.73338e-46	1.000000	6.73338e-46	1.000000
rad31	3.25615e-46	1.000000	3.25615e-46	1.000000
rad1	1.13006e-46	1.000000	1.13006e-46	1.000000
rad50	1.34088e-49	1.000000	1.34088e-49	1.000000
rad39	8.64690e-50	1.000000	8.64690e-50	1.000000
PhCCH+CH3	1.23092e-50	1.000000	1.23092e-50	1.000000
rad14	6.84642e-51	1.000000	6.84642e-51	1.000000
rad10	8.15998e-52	1.000000	8.15998e-52	1.000000
rad12	6.54461e-55	1.000000	6.54461e-55	1.000000
Ph+MeAc	2.22318e-56	1.000000	2.22318e-56	1.000000
rad37	1.55499e-56	1.000000	1.55499e-56	1.000000
rad52	4.27736e-57	1.000000	4.27736e-57	1.000000
rad27	4.91691e-58	1.000000	4.91691e-58	1.000000
PhCCCH3+H	1.75007e-59	1.000000	1.75007e-59	1.000000
rad58	4.91654e-61	1.000000	4.91654e-61	1.000000
rad51	2.95808e-61	1.000000	2.95808e-61	1.000000

rad19syn	1.88432e-65	1.000000	1.88432e-65	1.000000
rad70	1.10610e-65	1.000000	1.10610e-65	1.000000
rad54	3.54142e-66	1.000000	3.54142e-66	1.000000
PAH10+CH3	1.35798e-66	1.000000	1.35798e-66	1.000000
rad47	1.33408e-67	1.000000	1.33408e-67	1.000000
rad65	9.05871e-69	1.000000	9.05871e-69	1.000000
rad5	2.99087e-69	1.000000	2.99087e-69	1.000000
rad34	2.06313e-70	1.000000	2.06313e-70	1.000000
rad55	9.59972e-72	1.000000	9.59972e-72	1.000000
PAH1+H	7.84727e-73	1.000000	7.84727e-73	1.000000
PhcycC3H3_A+H	2.41705e-73	1.000000	2.41705e-73	1.000000
rad62	2.15306e-76	1.000000	2.15306e-76	1.000000
rad43	1.08068e-80	1.000000	1.08068e-80	1.000000
rad42	2.75677e-85	1.000000	2.75677e-85	1.000000
rad41	7.32712e-90	1.000000	7.32712e-90	1.000000

10000000.0 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.85154e-45 (1.00)	6.85154e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999650	0.999650	0.999650	0.999650
rad21	0.000306580	0.999957	0.000306580	0.999957
rad18	4.35732e-05	1.00000	4.35732e-05	1.00000
rad22	2.89577e-08	1.00000	2.89577e-08	1.00000
rad24	1.10864e-09	1.00000	1.10864e-09	1.00000
Indene+H	8.78168e-10	1.00000	8.78168e-10	1.00000
Benzyl+C2H2	5.39800e-10	1.00000	0.00000	1.00000
rad45	5.21930e-11	1.00000	5.21930e-11	1.00000
rad36	6.50079e-12	1.00000	6.50079e-12	1.00000
rad11	4.46080e-12	1.00000	4.46080e-12	1.00000
rad23	2.31102e-15	1.00000	2.31102e-15	1.00000
rad6	5.72949e-19	1.00000	5.72949e-19	1.00000
rad30	1.95434e-21	1.00000	1.95434e-21	1.00000
rad15	8.34926e-24	1.00000	8.34926e-24	1.00000
rad25	3.12747e-28	1.00000	3.12747e-28	1.00000
rad13	2.65557e-28	1.00000	2.65557e-28	1.00000
rad7	5.40131e-29	1.00000	5.40131e-29	1.00000
rad8	1.92573e-29	1.00000	1.92573e-29	1.00000
rad38	7.63776e-30	1.00000	7.63776e-30	1.00000
rad33	5.17639e-31	1.00000	5.17639e-31	1.00000
PhCHCCH2+H	1.47920e-32	1.00000	1.47920e-32	1.00000
rad35	1.55495e-33	1.00000	1.55495e-33	1.00000
PAH9+H	1.05797e-33	1.00000	1.05797e-33	1.00000
rad60syn	1.23443e-34	1.00000	1.23443e-34	1.00000
rad9	8.89804e-35	1.00000	8.89804e-35	1.00000
rad46	2.32652e-35	1.00000	2.32652e-35	1.00000
rad28	1.16087e-35	1.00000	1.16087e-35	1.00000
rad60anti	7.19460e-36	1.00000	7.19460e-36	1.00000
rad3	2.35060e-37	1.00000	2.35060e-37	1.00000
rad4	1.62616e-37	1.00000	1.62616e-37	1.00000
Ph+Allene	1.32984e-37	1.00000	1.32984e-37	1.00000
PhCH2CCH+H	9.39944e-39	1.00000	9.39944e-39	1.00000
PAH7+H	1.78082e-39	1.00000	1.78082e-39	1.00000
PAH3+H	2.71416e-42	1.00000	2.71416e-42	1.00000
rad59	1.29593e-42	1.00000	1.29593e-42	1.00000
rad26	4.08430e-43	1.00000	4.08430e-43	1.00000
rad2	4.08590e-45	1.00000	4.08590e-45	1.00000
rad31	1.42636e-45	1.00000	1.42636e-45	1.00000
rad1	6.66512e-46	1.00000	6.66512e-46	1.00000
rad50	2.40711e-48	1.00000	2.40711e-48	1.00000
rad39	1.07277e-48	1.00000	1.07277e-48	1.00000
PhCCH+CH3	1.30127e-49	1.00000	1.30127e-49	1.00000
rad14	6.06491e-50	1.00000	6.06491e-50	1.00000
rad10	1.30603e-50	1.00000	1.30603e-50	1.00000
rad12	1.05988e-53	1.00000	1.05988e-53	1.00000
Ph+MeAc	3.56209e-55	1.00000	3.56209e-55	1.00000
rad37	2.56600e-55	1.00000	2.56600e-55	1.00000
rad52	1.15769e-55	1.00000	1.15769e-55	1.00000
rad27	5.26494e-57	1.00000	5.26494e-57	1.00000
PhCCCH3+H	2.44466e-58	1.00000	2.44466e-58	1.00000
rad58	1.15963e-59	1.00000	1.15963e-59	1.00000
rad51	1.02583e-59	1.00000	1.02583e-59	1.00000
rad19syn	4.58562e-64	1.00000	4.58562e-64	1.00000
rad70	3.35315e-64	1.00000	3.35315e-64	1.00000
rad54	9.66883e-65	1.00000	9.66883e-65	1.00000
PAH10+CH3	3.46038e-65	1.00000	3.46038e-65	1.00000

rad47	6.60475e-66	1.00000	6.60475e-66	1.00000
rad65	3.04663e-67	1.00000	3.04663e-67	1.00000
rad5	7.39778e-68	1.00000	7.39778e-68	1.00000
rad34	7.47500e-69	1.00000	7.47500e-69	1.00000
rad55	3.27101e-70	1.00000	3.27101e-70	1.00000
PAH1+H	2.79370e-71	1.00000	2.79370e-71	1.00000
PhcycC3H3_A+H	8.24697e-72	1.00000	8.24697e-72	1.00000
rad62	8.27421e-75	1.00000	8.27421e-75	1.00000
rad43	4.66887e-79	1.00000	4.66887e-79	1.00000
rad42	1.58891e-83	1.00000	1.58891e-83	1.00000
rad41	3.82501e-88	1.00000	3.82501e-88	1.00000

10000000.0 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02671e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999598	0.999598	0.999598	0.999598
rad21	0.000351537	0.999950	0.000351537	0.999950
rad18	5.01503e-05	1.000000	5.01503e-05	1.000000
rad22	3.83197e-08	1.000000	3.83197e-08	1.000000
rad24	1.48723e-09	1.000000	1.48723e-09	1.000000
Indene+H	1.16829e-09	1.000000	1.16829e-09	1.000000
Benzyl+C2H2	8.54801e-10	1.000000	0.000000	1.000000
rad45	8.02149e-11	1.000000	8.02149e-11	1.000000
rad36	9.76419e-12	1.000000	9.76419e-12	1.000000
rad11	6.48435e-12	1.000000	6.48435e-12	1.000000
rad23	3.60176e-15	1.000000	3.60176e-15	1.000000
rad6	1.04565e-18	1.000000	1.04565e-18	1.000000
rad30	7.42448e-21	1.000000	7.42448e-21	1.000000
rad15	4.56446e-23	1.000000	4.56446e-23	1.000000
rad25	1.70356e-27	1.000000	1.70356e-27	1.000000
rad13	6.26388e-28	1.000000	6.26388e-28	1.000000
rad8	2.96469e-28	1.000000	2.96469e-28	1.000000
rad7	1.29886e-28	1.000000	1.29886e-28	1.000000
rad38	2.92705e-29	1.000000	2.92705e-29	1.000000
rad33	1.31891e-30	1.000000	1.31891e-30	1.000000
PhCHCCH2+H	1.49129e-31	1.000000	1.49129e-31	1.000000
rad35	4.45441e-33	1.000000	4.45441e-33	1.000000
PAH9+H	3.36786e-33	1.000000	3.36786e-33	1.000000
rad60syn	1.86813e-33	1.000000	1.86813e-33	1.000000
rad9	1.12024e-33	1.000000	1.12024e-33	1.000000
rad46	2.02905e-34	1.000000	2.02905e-34	1.000000
rad28	1.81201e-34	1.000000	1.81201e-34	1.000000
rad60anti	1.15954e-34	1.000000	1.15954e-34	1.000000
Ph+Allene	2.21024e-36	1.000000	2.21024e-36	1.000000
rad3	9.01724e-37	1.000000	9.01724e-37	1.000000
rad4	6.19264e-37	1.000000	6.19264e-37	1.000000
PhCH2CCH+H	2.08628e-37	1.000000	2.08628e-37	1.000000
PAH7+H	3.44890e-38	1.000000	3.44890e-38	1.000000
PAH3+H	6.05637e-41	1.000000	6.05637e-41	1.000000
rad59	2.87215e-41	1.000000	2.87215e-41	1.000000
rad26	9.49465e-42	1.000000	9.49465e-42	1.000000
rad2	2.68521e-44	1.000000	2.68521e-44	1.000000
rad31	6.50410e-45	1.000000	6.50410e-45	1.000000
rad1	4.27469e-45	1.000000	4.27469e-45	1.000000
rad50	6.79975e-47	1.000000	6.79975e-47	1.000000
rad39	2.05388e-47	1.000000	2.05388e-47	1.000000
PhCCH+CH3	1.76524e-48	1.000000	1.76524e-48	1.000000
rad14	6.47982e-49	1.000000	6.47982e-49	1.000000
rad10	3.40640e-49	1.000000	3.40640e-49	1.000000
rad12	2.80246e-52	1.000000	2.80246e-52	1.000000
Ph+MeAc	8.46588e-54	1.000000	8.46588e-54	1.000000
rad37	6.94134e-54	1.000000	6.94134e-54	1.000000
rad52	5.23073e-54	1.000000	5.23073e-54	1.000000
rad27	6.90855e-56	1.000000	6.90855e-56	1.000000
PhCCCH3+H	4.54168e-57	1.000000	4.54168e-57	1.000000
rad51	6.17181e-58	1.000000	6.17181e-58	1.000000
rad58	4.99811e-58	1.000000	4.99811e-58	1.000000
rad19syn	1.87518e-62	1.000000	1.87518e-62	1.000000
rad70	1.77235e-62	1.000000	1.77235e-62	1.000000
rad54	4.47318e-63	1.000000	4.47318e-63	1.000000
PAH10+CH3	1.51680e-63	1.000000	1.51680e-63	1.000000
rad47	6.04300e-64	1.000000	6.04300e-64	1.000000
rad65	1.87855e-65	1.000000	1.87855e-65	1.000000
rad5	2.92161e-66	1.000000	2.92161e-66	1.000000
rad34	4.76687e-67	1.000000	4.76687e-67	1.000000

rad55	1.91841e-68	1.000000	1.91841e-68	1.000000
PAH1+H	1.74947e-69	1.000000	1.74947e-69	1.000000
PhcycC3H3_A+H	4.85155e-70	1.000000	4.85155e-70	1.000000
rad62	5.30037e-73	1.000000	5.30037e-73	1.000000
rad43	3.29798e-77	1.000000	3.29798e-77	1.000000
rad42	1.56947e-81	1.000000	1.56947e-81	1.000000
rad41	3.56032e-86	1.000000	3.56032e-86	1.000000

10000000.0 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04932e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999543	0.999543	0.999543	0.999543
rad21	0.000399565	0.999943	0.000399565	0.999943
rad18	5.72325e-05	1.000000	5.72325e-05	1.000000
rad22	4.98878e-08	1.000000	4.98878e-08	1.000000
rad24	1.96626e-09	1.000000	1.96626e-09	1.000000
Indene+H	1.53027e-09	1.000000	1.53027e-09	1.000000
Benzyl+C2H2	1.34150e-09	1.000000	0.000000	1.000000
rad45	1.20514e-10	1.000000	1.20514e-10	1.000000
rad36	1.43773e-11	1.000000	1.43773e-11	1.000000
rad11	9.35082e-12	1.000000	9.35082e-12	1.000000
rad23	5.49876e-15	1.000000	5.49876e-15	1.000000
rad6	1.90349e-18	1.000000	1.90349e-18	1.000000
rad30	2.68164e-20	1.000000	2.68164e-20	1.000000
rad15	2.48106e-22	1.000000	2.48106e-22	1.000000
rad25	9.35390e-27	1.000000	9.35390e-27	1.000000
rad8	8.91785e-27	1.000000	8.91785e-27	1.000000
rad13	1.49221e-27	1.000000	1.49221e-27	1.000000
rad7	3.16337e-28	1.000000	3.16337e-28	1.000000
rad38	1.10371e-28	1.000000	1.10371e-28	1.000000
rad33	3.42950e-30	1.000000	3.42950e-30	1.000000
PhCHCCH2+H	1.80426e-30	1.000000	1.80426e-30	1.000000
rad60syn	4.76203e-32	1.000000	4.76203e-32	1.000000
rad9	1.95526e-32	1.000000	1.95526e-32	1.000000
rad35	1.28474e-32	1.000000	1.28474e-32	1.000000
PAH9+H	1.07535e-32	1.000000	1.07535e-32	1.000000
rad28	4.21032e-33	1.000000	4.21032e-33	1.000000
rad60anti	3.33723e-33	1.000000	3.33723e-33	1.000000
rad46	1.91812e-33	1.000000	1.91812e-33	1.000000
Ph+Allene	5.83429e-35	1.000000	5.83429e-35	1.000000
PhCH2CCH+H	9.47903e-36	1.000000	9.47903e-36	1.000000
rad3	3.62399e-36	1.000000	3.62399e-36	1.000000
rad4	2.47290e-36	1.000000	2.47290e-36	1.000000
PAH7+H	1.10995e-36	1.000000	1.10995e-36	1.000000
PAH3+H	2.66649e-39	1.000000	2.66649e-39	1.000000
rad59	1.25440e-39	1.000000	1.25440e-39	1.000000
rad26	3.89892e-40	1.000000	3.89892e-40	1.000000
rad2	1.92327e-43	1.000000	1.92327e-43	1.000000
rad31	3.09815e-44	1.000000	3.09815e-44	1.000000
rad1	2.99742e-44	1.000000	2.99742e-44	1.000000
rad50	3.07807e-45	1.000000	3.07807e-45	1.000000
rad39	6.18885e-46	1.000000	6.18885e-46	1.000000
PhCCH+CH3	2.93669e-47	1.000000	2.93669e-47	1.000000
rad10	1.56064e-47	1.000000	1.56064e-47	1.000000
rad14	8.01512e-48	1.000000	8.01512e-48	1.000000
rad12	1.30633e-50	1.000000	1.30633e-50	1.000000
rad52	4.10961e-52	1.000000	4.10961e-52	1.000000
rad37	3.33408e-52	1.000000	3.33408e-52	1.000000
Ph+MeAc	3.03849e-52	1.000000	3.03849e-52	1.000000
rad27	1.09984e-54	1.000000	1.09984e-54	1.000000
PhCCCH3+H	1.10554e-55	1.000000	1.10554e-55	1.000000
rad51	6.75936e-56	1.000000	6.75936e-56	1.000000
rad58	4.43532e-56	1.000000	4.43532e-56	1.000000
rad70	1.83333e-60	1.000000	1.83333e-60	1.000000
rad19syn	1.44034e-60	1.000000	1.44034e-60	1.000000
rad54	3.93218e-61	1.000000	3.93218e-61	1.000000
PAH10+CH3	1.27397e-61	1.000000	1.27397e-61	1.000000
rad47	1.07659e-61	1.000000	1.07659e-61	1.000000
rad65	2.26938e-63	1.000000	2.26938e-63	1.000000
rad5	2.02264e-64	1.000000	2.02264e-64	1.000000
rad34	6.01261e-65	1.000000	6.01261e-65	1.000000
rad55	2.18173e-66	1.000000	2.18173e-66	1.000000
PAH1+H	2.15872e-67	1.000000	2.15872e-67	1.000000
PhcycC3H3_A+H	5.54863e-68	1.000000	5.54863e-68	1.000000
rad62	6.37891e-71	1.000000	6.37891e-71	1.000000

rad43	4.29701e-75	1.000000	4.29701e-75	1.000000
rad42	3.01060e-79	1.000000	3.01060e-79	1.000000
rad41	6.64517e-84	1.000000	6.64517e-84	1.000000

10000000.0 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87106e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999484	0.999484	0.999484	0.999484
rad21	0.000451280	0.999935	0.000451280	0.999935
rad18	6.49209e-05	1.00000	6.49209e-05	1.00000
rad22	6.42154e-08	1.00000	6.42154e-08	1.00000
rad24	2.57482e-09	1.00000	2.57482e-09	1.00000
Benzyl+C2H2	2.09136e-09	1.00000	0.00000	1.00000
Indene+H	1.98351e-09	1.00000	1.98351e-09	1.00000
rad45	1.78358e-10	1.00000	1.78358e-10	1.00000
rad36	2.09018e-11	1.00000	2.09018e-11	1.00000
rad11	1.34445e-11	1.00000	1.34445e-11	1.00000
rad23	8.29002e-15	1.00000	8.29002e-15	1.00000
rad6	3.48296e-18	1.00000	3.48296e-18	1.00000
rad30	8.92990e-20	1.00000	8.92990e-20	1.00000
rad15	1.22798e-21	1.00000	1.22798e-21	1.00000
rad8	2.88312e-25	1.00000	2.88312e-25	1.00000
rad25	4.86019e-26	1.00000	4.86019e-26	1.00000
rad13	3.62769e-27	1.00000	3.62769e-27	1.00000
rad7	7.88269e-28	1.00000	7.88269e-28	1.00000
rad38	4.07719e-28	1.00000	4.07719e-28	1.00000
PhCHCCH2+H	2.17438e-29	1.00000	2.17438e-29	1.00000
rad33	9.18285e-30	1.00000	9.18285e-30	1.00000
rad60syn	1.36591e-30	1.00000	1.36591e-30	1.00000
rad9	4.18681e-31	1.00000	4.18681e-31	1.00000
rad60anti	1.15575e-31	1.00000	1.15575e-31	1.00000
rad28	1.10930e-31	1.00000	1.10930e-31	1.00000
rad35	3.75863e-32	1.00000	3.75863e-32	1.00000
PAH9+H	3.45871e-32	1.00000	3.45871e-32	1.00000
rad46	1.76203e-32	1.00000	1.76203e-32	1.00000
Ph+Allene	1.83265e-33	1.00000	1.83265e-33	1.00000
PhCH2CCH+H	6.77488e-34	1.00000	6.77488e-34	1.00000
PAH7+H	4.67868e-35	1.00000	4.67868e-35	1.00000
rad3	1.52989e-35	1.00000	1.52989e-35	1.00000
rad4	1.03806e-35	1.00000	1.03806e-35	1.00000
PAH3+H	1.79203e-37	1.00000	1.79203e-37	1.00000
rad59	8.35039e-38	1.00000	8.35039e-38	1.00000
rad26	2.25001e-38	1.00000	2.25001e-38	1.00000
rad2	1.47557e-42	1.00000	1.47557e-42	1.00000
rad1	2.25716e-43	1.00000	2.25716e-43	1.00000
rad50	1.80475e-43	1.00000	1.80475e-43	1.00000
rad31	1.52533e-43	1.00000	1.52533e-43	1.00000
rad39	2.31369e-44	1.00000	2.31369e-44	1.00000
rad10	1.00252e-45	1.00000	1.00252e-45	1.00000
PhCCH+CH3	5.33300e-46	1.00000	5.33300e-46	1.00000
rad14	1.06121e-46	1.00000	1.06121e-46	1.00000
rad12	8.57860e-49	1.00000	8.57860e-49	1.00000
rad52	4.45039e-50	1.00000	4.45039e-50	1.00000
rad37	2.27473e-50	1.00000	2.27473e-50	1.00000
Ph+MeAc	1.32937e-50	1.00000	1.32937e-50	1.00000
rad27	1.98016e-53	1.00000	1.98016e-53	1.00000
rad51	1.05281e-53	1.00000	1.05281e-53	1.00000
rad58	6.22862e-54	1.00000	6.22862e-54	1.00000
PhCCCH3+H	3.10764e-54	1.00000	3.10764e-54	1.00000
rad70	2.90148e-58	1.00000	2.90148e-58	1.00000
rad19syn	1.64968e-58	1.00000	1.64968e-58	1.00000
rad54	5.19433e-59	1.00000	5.19433e-59	1.00000
rad47	2.85691e-59	1.00000	2.85691e-59	1.00000
PAH10+CH3	1.61445e-59	1.00000	1.61445e-59	1.00000
rad65	4.11582e-61	1.00000	4.11582e-61	1.00000
rad5	1.98376e-62	1.00000	1.98376e-62	1.00000
rad34	1.16786e-62	1.00000	1.16786e-62	1.00000
rad55	3.78122e-64	1.00000	3.78122e-64	1.00000
PAH1+H	4.09096e-65	1.00000	4.09096e-65	1.00000
PhcycC3H3_A+H	9.69497e-66	1.00000	9.69497e-66	1.00000
rad62	1.14396e-68	1.00000	1.14396e-68	1.00000
rad43	8.23017e-73	1.00000	8.23017e-73	1.00000
rad42	8.81007e-77	1.00000	8.81007e-77	1.00000
rad41	1.93972e-81	1.00000	1.93972e-81	1.00000

10000000.0 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	3.94360e-35 (1.00)	3.94360e-35 (1.00)
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species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999419	0.999419	0.999419	0.999419
rad21	0.000507379	0.999926	0.000507379	0.999926
rad18	7.33314e-05	1.000000	7.33314e-05	1.000000
rad22	8.20299e-08	1.000000	8.20299e-08	1.000000
rad24	3.35201e-09	1.000000	3.35201e-09	1.000000
Benzyl+C2H2	3.24345e-09	1.000000	0.00000	1.000000
Indene+H	2.55393e-09	1.000000	2.55393e-09	1.000000
rad45	2.61518e-10	1.000000	2.61518e-10	1.000000
rad36	3.01617e-11	1.000000	3.01617e-11	1.000000
rad11	1.93414e-11	1.000000	1.93414e-11	1.000000
rad23	1.24183e-14	1.000000	1.24183e-14	1.000000
rad6	6.43686e-18	1.000000	6.43686e-18	1.000000
rad30	2.73099e-19	1.000000	2.73099e-19	1.000000
rad15	5.37407e-21	1.000000	5.37407e-21	1.000000
rad8	7.15024e-24	1.000000	7.15024e-24	1.000000
rad25	2.32571e-25	1.000000	2.32571e-25	1.000000
rad13	9.04578e-27	1.000000	9.04578e-27	1.000000
rad7	2.01894e-27	1.000000	2.01894e-27	1.000000
rad38	1.47249e-27	1.000000	1.47249e-27	1.000000
PhCHCCH2+H	2.31927e-28	1.000000	2.31927e-28	1.000000
rad60syn	3.25245e-29	1.000000	3.25245e-29	1.000000
rad33	2.53876e-29	1.000000	2.53876e-29	1.000000
rad9	1.06969e-29	1.000000	1.06969e-29	1.000000
rad60anti	3.33408e-30	1.000000	3.33408e-30	1.000000
rad28	2.58478e-30	1.000000	2.58478e-30	1.000000
rad46	1.46801e-31	1.000000	1.46801e-31	1.000000
rad35	1.13024e-31	1.000000	1.13024e-31	1.000000
PAH9+H	1.12250e-31	1.000000	1.12250e-31	1.000000
PhCH2CCH+H	6.17918e-32	1.000000	6.17918e-32	1.000000
Ph+Allene	5.15402e-32	1.000000	5.15402e-32	1.000000
PAH7+H	1.87902e-33	1.000000	1.87902e-33	1.000000
rad3	6.73892e-35	1.000000	6.73892e-35	1.000000
rad4	4.54948e-35	1.000000	4.54948e-35	1.000000
PAH3+H	1.46313e-35	1.000000	1.46313e-35	1.000000
rad59	6.73464e-36	1.000000	6.73464e-36	1.000000
rad26	1.43530e-36	1.000000	1.43530e-36	1.000000
rad2	1.18117e-41	1.000000	1.18117e-41	1.000000
rad50	1.10219e-41	1.000000	1.10219e-41	1.000000
rad1	1.77715e-42	1.000000	1.77715e-42	1.000000
rad39	8.35067e-43	1.000000	8.35067e-43	1.000000
rad31	7.64198e-43	1.000000	7.64198e-43	1.000000
rad10	7.14850e-44	1.000000	7.14850e-44	1.000000
PhCCH+CH3	9.59636e-45	1.000000	9.59636e-45	1.000000
rad14	1.41000e-45	1.000000	1.41000e-45	1.000000
rad12	6.30781e-47	1.000000	6.30781e-47	1.000000
rad52	5.35517e-48	1.000000	5.35517e-48	1.000000
rad37	1.76113e-48	1.000000	1.76113e-48	1.000000
Ph+MeAc	5.71672e-49	1.000000	5.71672e-49	1.000000
rad51	1.86895e-51	1.000000	1.86895e-51	1.000000
rad58	1.12126e-51	1.000000	1.12126e-51	1.000000
rad27	3.73807e-52	1.000000	3.73807e-52	1.000000
PhCCCH3+H	8.94672e-53	1.000000	8.94672e-53	1.000000
rad70	5.71197e-56	1.000000	5.71197e-56	1.000000
rad19syn	2.28966e-56	1.000000	2.28966e-56	1.000000
rad47	8.93466e-57	1.000000	8.93466e-57	1.000000
rad54	8.39301e-57	1.000000	8.39301e-57	1.000000
PAH10+CH3	2.50851e-57	1.000000	2.50851e-57	1.000000
rad65	8.86873e-59	1.000000	8.86873e-59	1.000000
rad34	2.83865e-60	1.000000	2.83865e-60	1.000000
rad5	2.25143e-60	1.000000	2.25143e-60	1.000000
rad55	8.14645e-62	1.000000	8.14645e-62	1.000000
PAH1+H	9.66980e-63	1.000000	9.66980e-63	1.000000
PhcycC3H3_A+H	2.11220e-63	1.000000	2.11220e-63	1.000000
rad62	2.49384e-66	1.000000	2.49384e-66	1.000000
rad43	1.89157e-70	1.000000	1.89157e-70	1.000000
rad42	3.21476e-74	1.000000	3.21476e-74	1.000000
rad41	7.20345e-79	1.000000	7.20345e-79	1.000000

10000000.0 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 1.44756e-33 (1.00) 1.44756e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999349	0.999349	0.999349	0.999349
rad21	0.000568652	0.999918	0.000568652	0.999918
rad18	8.25963e-05	1.00000	8.25963e-05	1.00000
rad22	1.04285e-07	1.00000	1.04285e-07	1.00000
Benzy1+C2H2	5.00788e-09	1.00000	0.00000	1.00000
rad24	4.35024e-09	1.00000	4.35024e-09	1.00000
Indene+H	3.27616e-09	1.00000	3.27616e-09	1.00000
rad45	3.81518e-10	1.00000	3.81518e-10	1.00000
rad36	4.33722e-11	1.00000	4.33722e-11	1.00000
rad11	2.79079e-11	1.00000	2.79079e-11	1.00000
rad23	1.85720e-14	1.00000	1.85720e-14	1.00000
rad6	1.20446e-17	1.00000	1.20446e-17	1.00000
rad30	7.73170e-19	1.00000	7.73170e-19	1.00000
rad15	2.08386e-20	1.00000	2.08386e-20	1.00000
rad8	1.25632e-22	1.00000	1.25632e-22	1.00000
rad25	1.02107e-24	1.00000	1.02107e-24	1.00000
rad13	2.31526e-26	1.00000	2.31526e-26	1.00000
rad7	5.31547e-27	1.00000	5.31547e-27	1.00000
rad38	5.19614e-27	1.00000	5.19614e-27	1.00000
PhCHCCH2+H	2.10424e-27	1.00000	2.10424e-27	1.00000
rad60syn	5.78995e-28	1.00000	5.78995e-28	1.00000
rad9	2.67676e-28	1.00000	2.67676e-28	1.00000
rad33	7.23214e-29	1.00000	7.23214e-29	1.00000
rad60anti	7.05235e-29	1.00000	7.05235e-29	1.00000
rad28	4.75445e-29	1.00000	4.75445e-29	1.00000
PhCH2CCH+H	5.33300e-30	1.00000	5.33300e-30	1.00000
Ph+Allene	1.13406e-30	1.00000	1.13406e-30	1.00000
rad46	1.08211e-30	1.00000	1.08211e-30	1.00000
rad35	3.93294e-31	1.00000	3.93294e-31	1.00000
PAH9+H	3.67455e-31	1.00000	3.67455e-31	1.00000
PAH7+H	5.70113e-32	1.00000	5.70113e-32	1.00000
PAH3+H	1.07546e-33	1.00000	1.07546e-33	1.00000
rad59	4.87207e-34	1.00000	4.87207e-34	1.00000
rad3	3.06201e-34	1.00000	3.06201e-34	1.00000
rad4	2.05786e-34	1.00000	2.05786e-34	1.00000
rad26	7.53872e-35	1.00000	7.53872e-35	1.00000
rad50	5.61841e-40	1.00000	5.61841e-40	1.00000
rad2	9.61921e-41	1.00000	9.61921e-41	1.00000
rad39	2.48641e-41	1.00000	2.48641e-41	1.00000
rad1	1.42609e-41	1.00000	1.42609e-41	1.00000
rad10	4.25886e-42	1.00000	4.25886e-42	1.00000
rad31	3.84060e-42	1.00000	3.84060e-42	1.00000
PhCCH+CH3	1.61940e-43	1.00000	1.61940e-43	1.00000
rad14	1.80777e-44	1.00000	1.80777e-44	1.00000
rad12	3.93197e-45	1.00000	3.93197e-45	1.00000
rad52	5.63994e-46	1.00000	5.63994e-46	1.00000
rad37	1.17911e-46	1.00000	1.17911e-46	1.00000
Ph+MeAc	2.09479e-47	1.00000	2.09479e-47	1.00000
rad51	2.94278e-49	1.00000	2.94278e-49	1.00000
rad58	1.91837e-49	1.00000	1.91837e-49	1.00000
rad27	6.98137e-51	1.00000	6.98137e-51	1.00000
PhCCCH3+H	2.43115e-51	1.00000	2.43115e-51	1.00000
rad70	1.04929e-53	1.00000	1.04929e-53	1.00000
rad19syn	2.91753e-54	1.00000	2.91753e-54	1.00000
rad47	2.52401e-54	1.00000	2.52401e-54	1.00000
rad54	1.25375e-54	1.00000	1.25375e-54	1.00000
PAH10+CH3	3.61099e-55	1.00000	3.61099e-55	1.00000
rad65	1.73465e-56	1.00000	1.73465e-56	1.00000
rad34	6.45812e-58	1.00000	6.45812e-58	1.00000
rad5	2.32566e-58	1.00000	2.32566e-58	1.00000
rad55	1.64403e-59	1.00000	1.64403e-59	1.00000
PAH1+H	2.13588e-60	1.00000	2.13588e-60	1.00000
PhcycC3H3_A+H	4.32407e-61	1.00000	4.32407e-61	1.00000
rad62	5.00526e-64	1.00000	5.00526e-64	1.00000
rad43	3.96647e-68	1.00000	3.96647e-68	1.00000
rad42	1.10216e-71	1.00000	1.10216e-71	1.00000
rad41	2.55249e-76	1.00000	2.55249e-76	1.00000

10000000.0 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27736e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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rad20	0.999271	0.999271	0.999271	0.999271
rad21	0.000635992	0.999907	0.000635992	0.999907
rad18	9.28672e-05	1.000000	9.28672e-05	1.000000
rad22	1.32232e-07	1.000000	1.32232e-07	1.000000
Benzyl+C2H2	7.69988e-09	1.000000	0.000000	1.000000
rad24	5.63969e-09	1.000000	5.63969e-09	1.000000
Indene+H	4.19650e-09	1.000000	4.19650e-09	1.000000
rad45	5.55513e-10	1.000000	5.55513e-10	1.000000
rad36	6.23319e-11	1.000000	6.23319e-11	1.000000
rad11	4.04480e-11	1.000000	4.04480e-11	1.000000
rad23	2.78316e-14	1.000000	2.78316e-14	1.000000
rad6	2.28321e-17	1.000000	2.28321e-17	1.000000
rad30	2.04910e-18	1.000000	2.04910e-18	1.000000
rad15	7.25522e-20	1.000000	7.25522e-20	1.000000
rad8	1.59989e-21	1.000000	1.59989e-21	1.000000
rad25	4.13896e-24	1.000000	4.13896e-24	1.000000
rad13	6.06832e-26	1.000000	6.06832e-26	1.000000
rad38	1.79179e-26	1.000000	1.79179e-26	1.000000
PhCHCCH2+H	1.62422e-26	1.000000	1.62422e-26	1.000000
rad7	1.43422e-26	1.000000	1.43422e-26	1.000000
rad60syn	7.71298e-27	1.000000	7.71298e-27	1.000000
rad9	5.54215e-27	1.000000	5.54215e-27	1.000000
rad60anti	1.09411e-27	1.000000	1.09411e-27	1.000000
rad28	6.78275e-28	1.000000	6.78275e-28	1.000000
PhCH2CCH+H	4.86837e-28	1.000000	4.86837e-28	1.000000
rad33	2.11218e-28	1.000000	2.11218e-28	1.000000
Ph+Allene	1.91908e-29	1.000000	1.91908e-29	1.000000
rad46	7.05954e-30	1.000000	7.05954e-30	1.000000
rad35	2.54330e-30	1.000000	2.54330e-30	1.000000
PAH7+H	1.27548e-30	1.000000	1.27548e-30	1.000000
PAH9+H	1.21108e-30	1.000000	1.21108e-30	1.000000
PAH3+H	6.16490e-32	1.000000	6.16490e-32	1.000000
rad59	2.61301e-32	1.000000	2.61301e-32	1.000000
rad26	2.84061e-33	1.000000	2.84061e-33	1.000000
rad3	1.41728e-33	1.000000	1.41728e-33	1.000000
rad4	9.48632e-34	1.000000	9.48632e-34	1.000000
rad50	2.24849e-38	1.000000	2.24849e-38	1.000000
rad2	7.81301e-40	1.000000	7.81301e-40	1.000000
rad39	5.99635e-40	1.000000	5.99635e-40	1.000000
rad10	1.93843e-40	1.000000	1.93843e-40	1.000000
rad1	1.14312e-40	1.000000	1.14312e-40	1.000000
rad31	1.91544e-41	1.000000	1.91544e-41	1.000000
PhCCH+CH3	2.51313e-42	1.000000	2.51313e-42	1.000000
rad14	2.19502e-43	1.000000	2.19502e-43	1.000000
rad12	1.96652e-43	1.000000	1.96652e-43	1.000000
rad52	5.60803e-44	1.000000	5.60803e-44	1.000000
rad37	6.76715e-45	1.000000	6.76715e-45	1.000000
Ph+MeAc	6.47494e-46	1.000000	6.47494e-46	1.000000
rad51	4.58686e-47	1.000000	4.58686e-47	1.000000
rad58	4.25268e-47	1.000000	4.25268e-47	1.000000
rad27	1.25391e-49	1.000000	1.25391e-49	1.000000
PhCCCH3+H	6.11613e-50	1.000000	6.11613e-50	1.000000
rad70	2.36237e-51	1.000000	2.36237e-51	1.000000
rad47	7.28239e-52	1.000000	7.28239e-52	1.000000
rad19syn	4.17610e-52	1.000000	4.17610e-52	1.000000
rad54	2.17598e-52	1.000000	2.17598e-52	1.000000
PAH10+CH3	6.10700e-53	1.000000	6.10700e-53	1.000000
rad65	3.52080e-54	1.000000	3.52080e-54	1.000000
rad34	1.82883e-55	1.000000	1.82883e-55	1.000000
rad5	2.57922e-56	1.000000	2.57922e-56	1.000000
rad55	4.05774e-57	1.000000	4.05774e-57	1.000000
PAH1+H	5.80862e-58	1.000000	5.80862e-58	1.000000
PhcycC3H3_A+H	1.09065e-58	1.000000	1.09065e-58	1.000000
rad62	1.16395e-61	1.000000	1.16395e-61	1.000000
rad43	9.40831e-66	1.000000	9.40831e-66	1.000000
rad42	4.67152e-69	1.000000	4.67152e-69	1.000000
rad41	1.12998e-73	1.000000	1.12998e-73	1.000000

10000000.0 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01169e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999185	0.999185	0.999185	0.999185
rad21	0.000710413	0.999895	0.000710413	0.999895
rad18	0.000104317	1.000000	0.000104317	1.000000
rad22	1.67507e-07	1.000000	1.67507e-07	1.000000

Benzyl+C2H2	1.17891e-08	1.000000	0.00000	1.000000
rad24	7.31399e-09	1.000000	7.31399e-09	1.000000
Indene+H	5.37684e-09	1.000000	5.37684e-09	1.000000
rad45	8.09096e-10	1.000000	8.09096e-10	1.000000
rad36	8.97096e-11	1.000000	8.97096e-11	1.000000
rad11	5.89271e-11	1.000000	5.89271e-11	1.000000
rad23	4.19076e-14	1.000000	4.19076e-14	1.000000
rad6	4.38097e-17	1.000000	4.38097e-17	1.000000
rad30	5.13867e-18	1.000000	5.13867e-18	1.000000
rad15	2.30328e-19	1.000000	2.30328e-19	1.000000
rad8	1.53979e-20	1.000000	1.53979e-20	1.000000
rad25	1.56330e-23	1.000000	1.56330e-23	1.000000
rad13	1.62191e-25	1.000000	1.62191e-25	1.000000
PhCHCCH2+H	1.08211e-25	1.000000	1.08211e-25	1.000000
rad9	8.83413e-26	1.000000	8.83413e-26	1.000000
rad60syn	7.91930e-26	1.000000	7.91930e-26	1.000000
rad38	6.03930e-26	1.000000	6.03930e-26	1.000000
rad7	3.94705e-26	1.000000	3.94705e-26	1.000000
PhCH2CCH+H	1.68656e-26	1.000000	1.68656e-26	1.000000
rad60anti	1.28341e-26	1.000000	1.28341e-26	1.000000
rad28	7.62497e-27	1.000000	7.62497e-27	1.000000
rad33	6.28401e-28	1.000000	6.28401e-28	1.000000
Ph+Allene	2.53541e-28	1.000000	2.53541e-28	1.000000
rad46	4.11886e-29	1.000000	4.11886e-29	1.000000
rad35	3.13625e-29	1.000000	3.13625e-29	1.000000
PAH7+H	2.12426e-29	1.000000	2.12426e-29	1.000000
PAH9+H	4.00824e-30	1.000000	4.00824e-30	1.000000
PAH3+H	1.86638e-30	1.000000	1.86638e-30	1.000000
rad59	7.49869e-31	1.000000	7.49869e-31	1.000000
rad26	7.06818e-32	1.000000	7.06818e-32	1.000000
rad3	6.60564e-33	1.000000	6.60564e-33	1.000000
rad4	4.40516e-33	1.000000	4.40516e-33	1.000000
rad50	6.36652e-37	1.000000	6.36652e-37	1.000000
rad39	1.15232e-38	1.000000	1.15232e-38	1.000000
rad2	6.23601e-39	1.000000	6.23601e-39	1.000000
rad10	5.86793e-39	1.000000	5.86793e-39	1.000000
rad1	9.01650e-40	1.000000	9.01650e-40	1.000000
rad31	9.41201e-41	1.000000	9.41201e-41	1.000000
PhCCH+CH3	3.54993e-41	1.000000	3.54993e-41	1.000000
rad12	6.62025e-42	1.000000	6.62025e-42	1.000000
rad52	4.04285e-42	1.000000	4.04285e-42	1.000000
rad14	2.49791e-42	1.000000	2.49791e-42	1.000000
rad37	2.64356e-43	1.000000	2.64356e-43	1.000000
Ph+MeAc	1.63483e-44	1.000000	1.63483e-44	1.000000
rad58	7.63441e-45	1.000000	7.63441e-45	1.000000
rad51	5.31285e-45	1.000000	5.31285e-45	1.000000
rad27	2.11445e-48	1.000000	2.11445e-48	1.000000
PhCCCH3+H	1.38307e-48	1.000000	1.38307e-48	1.000000
rad70	4.21562e-49	1.000000	4.21562e-49	1.000000
rad47	1.57628e-49	1.000000	1.57628e-49	1.000000
rad19syn	4.47971e-50	1.000000	4.47971e-50	1.000000
rad54	2.89500e-50	1.000000	2.89500e-50	1.000000
PAH10+CH3	8.04990e-51	1.000000	8.04990e-51	1.000000
rad65	5.40635e-52	1.000000	5.40635e-52	1.000000
rad34	4.13204e-53	1.000000	4.13204e-53	1.000000
rad5	2.28233e-54	1.000000	2.28233e-54	1.000000
rad55	7.93832e-55	1.000000	7.93832e-55	1.000000
PAH1+H	1.25588e-55	1.000000	1.25588e-55	1.000000
PhcycC3H3_A+H	2.19454e-56	1.000000	2.19454e-56	1.000000
rad62	2.08254e-59	1.000000	2.08254e-59	1.000000
rad43	1.70371e-63	1.000000	1.70371e-63	1.000000
rad42	1.57857e-66	1.000000	1.57857e-66	1.000000
rad41	4.00696e-71	1.000000	4.00696e-71	1.000000

10000000.0 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54821e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999090	0.999090	0.999090	0.999090
rad21	0.000793057	0.999883	0.000793057	0.999883
rad18	0.000117145	1.00000	0.000117145	1.00000
rad22	2.12252e-07	1.00000	2.12252e-07	1.00000
Benzyl+C2H2	1.79696e-08	1.00000	0.00000	1.00000
rad24	9.49782e-09	1.00000	9.49782e-09	1.00000
Indene+H	6.90005e-09	1.00000	6.90005e-09	1.00000
rad45	1.18049e-09	1.00000	1.18049e-09	1.00000

rad36	1.29470e-10	1.00000	1.29470e-10	1.00000
rad11	8.63060e-11	1.00000	8.63060e-11	1.00000
rad23	6.35289e-14	1.00000	6.35289e-14	1.00000
rad6	8.49369e-17	1.00000	8.49369e-17	1.00000
rad30	1.23053e-17	1.00000	1.23053e-17	1.00000
rad15	6.76315e-19	1.00000	6.76315e-19	1.00000
rad8	1.16751e-19	1.00000	1.16751e-19	1.00000
rad25	5.55136e-23	1.00000	5.55136e-23	1.00000
rad9	1.09270e-24	1.00000	1.09270e-24	1.00000
rad60syn	6.49077e-25	1.00000	6.49077e-25	1.00000
PhCHCCH2+H	6.33380e-25	1.00000	6.33380e-25	1.00000
rad13	4.39840e-25	1.00000	4.39840e-25	1.00000
PhCH2CCH+H	3.56652e-25	1.00000	3.56652e-25	1.00000
rad38	1.99014e-25	1.00000	1.99014e-25	1.00000
rad60anti	1.18175e-25	1.00000	1.18175e-25	1.00000
rad7	1.10189e-25	1.00000	1.10189e-25	1.00000
rad28	6.93830e-26	1.00000	6.93830e-26	1.00000
Ph+Allene	2.69224e-27	1.00000	2.69224e-27	1.00000
rad33	1.89198e-27	1.00000	1.89198e-27	1.00000
rad35	3.98870e-28	1.00000	3.98870e-28	1.00000
PAH7+H	2.73363e-28	1.00000	2.73363e-28	1.00000
rad46	2.17750e-28	1.00000	2.17750e-28	1.00000
PAH3+H	3.77859e-29	1.00000	3.77859e-29	1.00000
rad59	1.45766e-29	1.00000	1.45766e-29	1.00000
PAH9+H	1.32826e-29	1.00000	1.32826e-29	1.00000
rad26	1.27301e-30	1.00000	1.27301e-30	1.00000
rad3	3.07023e-32	1.00000	3.07023e-32	1.00000
rad4	2.04068e-32	1.00000	2.04068e-32	1.00000
rad50	1.34004e-35	1.00000	1.34004e-35	1.00000
rad39	1.80626e-37	1.00000	1.80626e-37	1.00000
rad10	1.28683e-37	1.00000	1.28683e-37	1.00000
rad2	4.84023e-38	1.00000	4.84023e-38	1.00000
rad1	6.92451e-39	1.00000	6.92451e-39	1.00000
PhCCH+CH3	4.56130e-40	1.00000	4.56130e-40	1.00000
rad31	4.53634e-40	1.00000	4.53634e-40	1.00000
rad52	2.04027e-40	1.00000	2.04027e-40	1.00000
rad12	1.61960e-40	1.00000	1.61960e-40	1.00000
rad14	2.65311e-41	1.00000	2.65311e-41	1.00000
rad37	7.47353e-42	1.00000	7.47353e-42	1.00000
rad58	1.06643e-42	1.00000	1.06643e-42	1.00000
rad51	4.44131e-43	1.00000	4.44131e-43	1.00000
Ph+MeAc	3.43066e-43	1.00000	3.43066e-43	1.00000
rad70	5.73681e-47	1.00000	5.73681e-47	1.00000
rad27	3.31150e-47	1.00000	3.31150e-47	1.00000
PhCCCH3+H	2.79840e-47	1.00000	2.79840e-47	1.00000
rad47	2.47920e-47	1.00000	2.47920e-47	1.00000
rad19syn	3.42416e-48	1.00000	3.42416e-48	1.00000
rad54	2.82195e-48	1.00000	2.82195e-48	1.00000
PAH10+CH3	7.94570e-49	1.00000	7.94570e-49	1.00000
rad65	6.10067e-50	1.00000	6.10067e-50	1.00000
rad34	7.17126e-51	1.00000	7.17126e-51	1.00000
rad5	1.53735e-52	1.00000	1.53735e-52	1.00000
rad55	1.17779e-52	1.00000	1.17779e-52	1.00000
PAH1+H	2.07881e-53	1.00000	2.07881e-53	1.00000
PhcycC3H3_A+H	3.37263e-54	1.00000	3.37263e-54	1.00000
rad62	2.76114e-57	1.00000	2.76114e-57	1.00000
rad43	2.28374e-61	1.00000	2.28374e-61	1.00000
rad42	4.06735e-64	1.00000	4.06735e-64	1.00000
rad41	1.08436e-68	1.00000	1.08436e-68	1.00000

10000000.0 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69315e-29 (1.00)	4.69315e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.998983	0.998983	0.998983	0.998983
rad21	0.000885218	0.999868	0.000885218	0.999868
rad18	0.000131574	1.000000	0.000131574	1.000000
rad22	2.69265e-07	1.00000	2.69265e-07	1.00000
Benzyl+C2H2	2.72596e-08	1.00000	0.00000	1.00000
rad24	1.23566e-08	1.00000	1.23566e-08	1.00000
Indene+H	8.87703e-09	1.00000	8.87703e-09	1.00000
rad45	1.72679e-09	1.00000	1.72679e-09	1.00000
rad36	1.87503e-10	1.00000	1.87503e-10	1.00000
rad11	1.27041e-10	1.00000	1.27041e-10	1.00000
rad23	9.70778e-14	1.00000	9.70778e-14	1.00000
rad6	1.66012e-16	1.00000	1.66012e-16	1.00000

rad30	2.83439e-17	1.00000	2.83439e-17	1.00000
rad15	1.85920e-18	1.00000	1.85920e-18	1.00000
rad8	7.23049e-19	1.00000	7.23049e-19	1.00000
rad25	1.86773e-22	1.00000	1.86773e-22	1.00000
rad9	1.07499e-23	1.00000	1.07499e-23	1.00000
PhCH2CCH+H	5.37638e-24	1.00000	5.37638e-24	1.00000
rad60syn	4.38683e-24	1.00000	4.38683e-24	1.00000
PhCHCCH2+H	3.31238e-24	1.00000	3.31238e-24	1.00000
rad13	1.20408e-24	1.00000	1.20408e-24	1.00000
rad60anti	8.84311e-25	1.00000	8.84311e-25	1.00000
rad38	6.41288e-25	1.00000	6.41288e-25	1.00000
rad28	5.25151e-25	1.00000	5.25151e-25	1.00000
rad7	3.10359e-25	1.00000	3.10359e-25	1.00000
Ph+Allene	2.36441e-26	1.00000	2.36441e-26	1.00000
rad33	5.72922e-27	1.00000	5.72922e-27	1.00000
rad35	4.19719e-27	1.00000	4.19719e-27	1.00000
PAH7+H	2.81251e-27	1.00000	2.81251e-27	1.00000
rad46	1.05628e-27	1.00000	1.05628e-27	1.00000
PAH3+H	5.62778e-28	1.00000	5.62778e-28	1.00000
rad59	2.09552e-28	1.00000	2.09552e-28	1.00000
PAH9+H	4.39452e-29	1.00000	4.39452e-29	1.00000
rad26	1.75004e-29	1.00000	1.75004e-29	1.00000
rad3	1.41214e-31	1.00000	1.41214e-31	1.00000
rad4	9.35790e-32	1.00000	9.35790e-32	1.00000
rad50	2.18567e-34	1.00000	2.18567e-34	1.00000
rad39	2.36098e-36	1.00000	2.36098e-36	1.00000
rad10	2.15824e-36	1.00000	2.15824e-36	1.00000
rad2	3.62658e-37	1.00000	3.62658e-37	1.00000
rad1	5.13925e-38	1.00000	5.13925e-38	1.00000
rad52	7.05393e-39	1.00000	7.05393e-39	1.00000
PhCCH+CH3	5.33893e-39	1.00000	5.33893e-39	1.00000
rad12	3.03185e-39	1.00000	3.03185e-39	1.00000
rad31	2.13897e-39	1.00000	2.13897e-39	1.00000
rad14	2.62547e-40	1.00000	2.62547e-40	1.00000
rad37	1.60346e-40	1.00000	1.60346e-40	1.00000
rad58	1.27398e-40	1.00000	1.27398e-40	1.00000
rad51	2.68951e-41	1.00000	2.68951e-41	1.00000
Ph+MeAc	6.08053e-42	1.00000	6.08053e-42	1.00000
rad70	6.35158e-45	1.00000	6.35158e-45	1.00000
rad47	2.87173e-45	1.00000	2.87173e-45	1.00000
PhCCCH3+H	5.05524e-46	1.00000	5.05524e-46	1.00000
rad27	4.78290e-46	1.00000	4.78290e-46	1.00000
rad54	2.04219e-46	1.00000	2.04219e-46	1.00000
rad19syn	1.82471e-46	1.00000	1.82471e-46	1.00000
PAH10+CH3	6.05002e-47	1.00000	6.05002e-47	1.00000
rad65	5.18021e-48	1.00000	5.18021e-48	1.00000
rad34	1.03488e-48	1.00000	1.03488e-48	1.00000
rad55	1.38839e-50	1.00000	1.38839e-50	1.00000
rad5	7.79628e-51	1.00000	7.79628e-51	1.00000
PAH1+H	2.83452e-51	1.00000	2.83452e-51	1.00000
PhcycC3H3_A+H	4.15762e-52	1.00000	4.15762e-52	1.00000
rad62	2.80431e-55	1.00000	2.80431e-55	1.00000
rad43	2.34386e-59	1.00000	2.34386e-59	1.00000
rad42	8.35514e-62	1.00000	8.35514e-62	1.00000
rad41	2.33638e-66	1.00000	2.33638e-66	1.00000

10000000.0 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.16530e-28 (1.00)	3.16530e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.998863	0.998863	0.998863	0.998863
rad21	0.000988348	0.999851	0.000988348	0.999851
rad18	0.000147863	0.999999	0.000147863	0.999999
rad22	3.42201e-07	1.000000	3.42201e-07	1.000000
Benzyl+C2H2	4.11406e-08	1.000000	0.000000	1.000000
rad24	1.61088e-08	1.000000	1.61088e-08	1.000000
Indene+H	1.14563e-08	1.000000	1.14563e-08	1.000000
rad45	2.53314e-09	1.000000	2.53314e-09	1.000000
rad36	2.72558e-10	1.000000	2.72558e-10	1.000000
rad11	1.87827e-10	1.000000	1.87827e-10	1.000000
rad23	1.49632e-13	1.000000	1.49632e-13	1.000000
rad6	3.26307e-16	1.000000	3.26307e-16	1.000000
rad30	6.31562e-17	1.000000	6.31562e-17	1.000000
rad15	4.83289e-18	1.000000	4.83289e-18	1.000000
rad8	3.76991e-18	1.000000	3.76991e-18	1.000000
rad25	5.99121e-22	1.000000	5.99121e-22	1.000000

rad9	8.65181e-23	1.000000	8.65181e-23	1.000000
PhCH2CCH+H	6.22642e-23	1.000000	6.22642e-23	1.000000
rad60syn	2.51456e-23	1.000000	2.51456e-23	1.000000
PhCHCCH2+H	1.57072e-23	1.000000	1.57072e-23	1.000000
rad60anti	5.54221e-24	1.000000	5.54221e-24	1.000000
rad28	3.38909e-24	1.000000	3.38909e-24	1.000000
rad13	3.31160e-24	1.000000	3.31160e-24	1.000000
rad38	2.02094e-24	1.000000	2.02094e-24	1.000000
rad7	8.77589e-25	1.000000	8.77589e-25	1.000000
Ph+Allene	1.76281e-25	1.000000	1.76281e-25	1.000000
rad35	3.60829e-26	1.000000	3.60829e-26	1.000000
PAH7+H	2.38629e-26	1.000000	2.38629e-26	1.000000
rad33	1.73550e-26	1.000000	1.73550e-26	1.000000
PAH3+H	6.54598e-27	1.000000	6.54598e-27	1.000000
rad46	4.75362e-27	1.000000	4.75362e-27	1.000000
rad59	2.35552e-27	1.000000	2.35552e-27	1.000000
rad26	1.91685e-28	1.000000	1.91685e-28	1.000000
PAH9+H	1.44769e-28	1.000000	1.44769e-28	1.000000
rad3	6.38972e-31	1.000000	6.38972e-31	1.000000
rad4	4.22289e-31	1.000000	4.22289e-31	1.000000
rad50	2.88432e-33	1.000000	2.88432e-33	1.000000
rad10	2.92421e-35	1.000000	2.92421e-35	1.000000
rad39	2.64830e-35	1.000000	2.64830e-35	1.000000
rad2	2.61257e-36	1.000000	2.61257e-36	1.000000
rad1	3.67119e-37	1.000000	3.67119e-37	1.000000
rad52	1.82673e-37	1.000000	1.82673e-37	1.000000
PhCCH+CH3	5.74630e-38	1.000000	5.74630e-38	1.000000
rad12	4.63291e-38	1.000000	4.63291e-38	1.000000
rad58	1.75294e-38	1.000000	1.75294e-38	1.000000
rad31	9.85336e-39	1.000000	9.85336e-39	1.000000
rad37	2.82499e-39	1.000000	2.82499e-39	1.000000
rad14	2.42874e-39	1.000000	2.42874e-39	1.000000
rad51	1.32132e-39	1.000000	1.32132e-39	1.000000
Ph+MeAc	9.45480e-41	1.000000	9.45480e-41	1.000000
rad70	7.31663e-43	1.000000	7.31663e-43	1.000000
rad47	2.86126e-43	1.000000	2.86126e-43	1.000000
rad54	1.24679e-44	1.000000	1.24679e-44	1.000000
PhCCCH3+H	8.37995e-45	1.000000	8.37995e-45	1.000000
rad19syn	7.62065e-45	1.000000	7.62065e-45	1.000000
rad27	6.44177e-45	1.000000	6.44177e-45	1.000000
PAH10+CH3	4.15685e-45	1.000000	4.15685e-45	1.000000
rad65	3.95429e-46	1.000000	3.95429e-46	1.000000
rad34	1.64265e-46	1.000000	1.64265e-46	1.000000
rad55	1.62220e-48	1.000000	1.62220e-48	1.000000
PAH1+H	4.17360e-49	1.000000	4.17360e-49	1.000000
rad5	3.44975e-49	1.000000	3.44975e-49	1.000000
PhcycC3H3_A+H	5.15202e-50	1.000000	5.15202e-50	1.000000
rad62	2.64607e-53	1.000000	2.64607e-53	1.000000
rad43	2.24118e-57	1.000000	2.24118e-57	1.000000
rad42	1.69474e-59	1.000000	1.69474e-59	1.000000
rad41	4.96614e-64	1.000000	4.96614e-64	1.000000

10000000.0 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76115e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.998729	0.998729	0.998729	0.998729
rad21	0.00110408	0.999833	0.00110408	0.999833
rad18	0.000166301	0.999999	0.000166301	0.999999
rad22	4.35826e-07	1.000000	4.35826e-07	1.000000
Benzyl+C2H2	6.17502e-08	1.000000	0.000000	1.000000
rad24	2.10418e-08	1.000000	2.10418e-08	1.000000
Indene+H	1.48369e-08	1.000000	1.48369e-08	1.000000
rad45	3.72631e-09	1.000000	3.72631e-09	1.000000
rad36	3.97604e-10	1.000000	3.97604e-10	1.000000
rad11	2.78697e-10	1.000000	2.78697e-10	1.000000
rad23	2.32676e-13	1.000000	2.32677e-13	1.000000
rad6	6.43427e-16	1.000000	6.43427e-16	1.000000
rad30	1.36729e-16	1.000000	1.36729e-16	1.000000
rad8	1.69680e-17	1.000000	1.69680e-17	1.000000
rad15	1.19752e-17	1.000000	1.19752e-17	1.000000
rad25	1.84155e-21	1.000000	1.84155e-21	1.000000
rad9	5.84444e-22	1.000000	5.84444e-22	1.000000
PhCH2CCH+H	5.73800e-22	1.000000	5.73800e-22	1.000000
rad60syn	1.25172e-22	1.000000	1.25172e-22	1.000000
PhCHCCH2+H	6.83805e-23	1.000000	6.83805e-23	1.000000

rad60anti	2.98386e-23	1.000000	2.98386e-23	1.000000
rad28	1.90498e-23	1.000000	1.90498e-23	1.000000
rad13	9.11174e-24	1.000000	9.11174e-24	1.000000
rad38	6.22942e-24	1.000000	6.22942e-24	1.000000
rad7	2.48049e-24	1.000000	2.48049e-24	1.000000
Ph+Allene	1.14026e-24	1.000000	1.14026e-24	1.000000
rad35	2.58754e-25	1.000000	2.58754e-25	1.000000
PAH7+H	1.71263e-25	1.000000	1.71263e-25	1.000000
PAH3+H	6.13559e-26	1.000000	6.13559e-26	1.000000
rad33	5.23499e-26	1.000000	5.23499e-26	1.000000
rad59	2.13806e-26	1.000000	2.13806e-26	1.000000
rad46	2.00310e-26	1.000000	2.00310e-26	1.000000
rad26	1.72083e-27	1.000000	1.72083e-27	1.000000
PAH9+H	4.73758e-28	1.000000	4.73758e-28	1.000000
rad3	2.83180e-30	1.000000	2.83180e-30	1.000000
rad4	1.86697e-30	1.000000	1.86697e-30	1.000000
rad50	3.14815e-32	1.000000	3.14815e-32	1.000000
rad10	3.26188e-34	1.000000	3.26188e-34	1.000000
rad39	2.57936e-34	1.000000	2.57936e-34	1.000000
rad2	1.80331e-35	1.000000	1.80331e-35	1.000000
rad52	3.47826e-36	1.000000	3.47826e-36	1.000000
rad1	2.51524e-36	1.000000	2.51524e-36	1.000000
rad58	1.96549e-36	1.000000	1.96549e-36	1.000000
rad12	5.82083e-37	1.000000	5.82084e-37	1.000000
PhCCH+CH3	5.68832e-37	1.000000	5.68832e-37	1.000000
rad31	4.43145e-38	1.000000	4.43145e-38	1.000000
rad51	4.39986e-38	1.000000	4.39986e-38	1.000000
rad37	4.04878e-38	1.000000	4.04878e-38	1.000000
rad14	2.09923e-38	1.000000	2.09923e-38	1.000000
Ph+MeAc	1.28665e-39	1.000000	1.28665e-39	1.000000
rad70	6.19275e-41	1.000000	6.19275e-41	1.000000
rad47	2.04975e-41	1.000000	2.04975e-41	1.000000
rad54	4.86771e-43	1.000000	4.86771e-43	1.000000
rad19syn	2.18613e-43	1.000000	2.18613e-43	1.000000
PAH10+CH3	1.85551e-43	1.000000	1.85551e-43	1.000000
PhCCCH3+H	1.25754e-43	1.000000	1.25754e-43	1.000000
rad27	8.02311e-44	1.000000	8.02311e-44	1.000000
rad65	2.21486e-44	1.000000	2.21486e-44	1.000000
rad34	2.08908e-44	1.000000	2.08908e-44	1.000000
rad55	1.37351e-46	1.000000	1.37351e-46	1.000000
PAH1+H	4.86046e-47	1.000000	4.86046e-47	1.000000
rad5	1.13772e-47	1.000000	1.13772e-47	1.000000
PhcycC3H3_A+H	4.70605e-48	1.000000	4.70605e-48	1.000000
rad62	1.78698e-51	1.000000	1.78698e-51	1.000000
rad43	1.59475e-55	1.000000	1.59475e-55	1.000000
rad42	2.49162e-57	1.000000	2.49162e-57	1.000000
rad41	7.66049e-62	1.000000	7.66049e-62	1.000000

10000000.0 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.30956e-27 (1.00)	8.30956e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.998578	0.998578	0.998578	0.998578
rad21	0.00123427	0.999812	0.00123427	0.999812
rad18	0.000187220	0.999999	0.000187220	0.999999
rad22	5.56353e-07	1.00000	5.56353e-07	1.00000
Benzyl+C2H2	9.21480e-08	1.00000	0.00000	1.00000
rad24	2.75317e-08	1.00000	2.75317e-08	1.00000
Indene+H	1.92854e-08	1.00000	1.92854e-08	1.00000
rad45	5.49442e-09	1.00000	5.49442e-09	1.00000
rad36	5.81823e-10	1.00000	5.81823e-10	1.00000
rad11	4.14643e-10	1.00000	4.14643e-10	1.00000
rad23	3.64912e-13	1.00000	3.64912e-13	1.00000
rad6	1.26990e-15	1.00000	1.26990e-15	1.00000
rad30	2.88571e-16	1.00000	2.88571e-16	1.00000
rad8	6.73087e-17	1.00000	6.73087e-17	1.00000
rad15	2.84670e-17	1.00000	2.84670e-17	1.00000
rad25	5.44569e-21	1.00000	5.44569e-21	1.00000
PhCH2CCH+H	4.35379e-21	1.00000	4.35379e-21	1.00000
rad9	3.39034e-21	1.00000	3.39034e-21	1.00000
rad60syn	5.51927e-22	1.00000	5.51927e-22	1.00000
PhCHCCH2+H	2.76133e-22	1.00000	2.76133e-22	1.00000
rad60anti	1.40972e-22	1.00000	1.40972e-22	1.00000
rad28	9.49645e-23	1.00000	9.49645e-23	1.00000
rad13	2.49903e-23	1.00000	2.49903e-23	1.00000
rad38	1.87854e-23	1.00000	1.87854e-23	1.00000

rad7	6.98253e-24	1.00000	6.98254e-24	1.00000
Ph+Allene	6.51956e-24	1.00000	6.51956e-24	1.00000
rad35	1.58537e-24	1.00000	1.58537e-24	1.00000
PAH7+H	1.06298e-24	1.00000	1.06298e-24	1.00000
PAH3+H	4.78263e-25	1.00000	4.78263e-25	1.00000
rad59	1.61630e-25	1.00000	1.61630e-25	1.00000
rad33	1.56651e-25	1.00000	1.56651e-25	1.00000
rad46	7.96424e-26	1.00000	7.96424e-26	1.00000
rad26	1.30096e-26	1.00000	1.30096e-26	1.00000
PAH9+H	1.53701e-27	1.00000	1.53701e-27	1.00000
rad3	1.22521e-29	1.00000	1.22521e-29	1.00000
rad4	8.06031e-30	1.00000	8.06031e-30	1.00000
rad50	2.91704e-31	1.00000	2.91704e-31	1.00000
rad10	3.07763e-33	1.00000	3.07763e-33	1.00000
rad39	2.21515e-33	1.00000	2.21515e-33	1.00000
rad58	1.46554e-34	1.00000	1.46554e-34	1.00000
rad2	1.19012e-34	1.00000	1.19012e-34	1.00000
rad52	5.17217e-35	1.00000	5.17217e-35	1.00000
rad1	1.64926e-35	1.00000	1.64926e-35	1.00000
rad12	6.16967e-36	1.00000	6.16968e-36	1.00000
PhCCH+CH3	5.19296e-36	1.00000	5.19296e-36	1.00000
rad51	1.01682e-36	1.00000	1.01682e-36	1.00000
rad37	4.84115e-37	1.00000	4.84115e-37	1.00000
rad31	1.94531e-37	1.00000	1.94531e-37	1.00000
rad14	1.69693e-37	1.00000	1.69693e-37	1.00000
Ph+MeAc	1.54702e-38	1.00000	1.54702e-38	1.00000
rad70	3.24166e-39	1.00000	3.24166e-39	1.00000
rad47	1.02543e-39	1.00000	1.02543e-39	1.00000
rad54	1.28266e-41	1.00000	1.28266e-41	1.00000
PAH10+CH3	5.48505e-42	1.00000	5.48505e-42	1.00000
rad19syn	4.60573e-42	1.00000	4.60573e-42	1.00000
rad34	1.98296e-42	1.00000	1.98296e-42	1.00000
PhCCCH3+H	1.70694e-42	1.00000	1.70694e-42	1.00000
rad27	9.22191e-43	1.00000	9.22191e-43	1.00000
rad65	8.20394e-43	1.00000	8.20394e-43	1.00000
rad55	7.61295e-45	1.00000	7.61295e-45	1.00000
PAH1+H	4.16738e-45	1.00000	4.16738e-45	1.00000
PhcycC3H3_A+H	2.89981e-46	1.00000	2.89981e-46	1.00000
rad5	2.84743e-46	1.00000	2.84743e-46	1.00000
rad62	8.45971e-50	1.00000	8.45971e-50	1.00000
rad43	8.35722e-54	1.00000	8.35722e-54	1.00000
rad42	2.52409e-55	1.00000	2.52409e-55	1.00000
rad41	8.15316e-60	1.00000	8.15316e-60	1.00000

10000000.0 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.40057e-26 (1.00)	3.40057e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.998407	0.998407	0.998407	0.998407
rad21	0.00138095	0.999788	0.00138095	0.999788
rad18	0.000210993	0.999999	0.000210993	0.999999
rad22	7.11863e-07	1.000000	7.11863e-07	1.000000
Benzyl+C2H2	1.36676e-07	1.000000	0.000000	1.000000
rad24	3.60670e-08	1.000000	3.60670e-08	1.000000
Indene+H	2.51585e-08	1.000000	2.51585e-08	1.000000
rad45	8.11552e-09	1.000000	8.11552e-09	1.000000
rad36	8.53494e-10	1.000000	8.53494e-10	1.000000
rad11	6.17975e-10	1.000000	6.17976e-10	1.000000
rad23	5.76875e-13	1.000000	5.76875e-13	1.000000
rad6	2.50348e-15	1.000000	2.50348e-15	1.000000
rad30	5.95263e-16	1.000000	5.95263e-16	1.000000
rad8	2.39392e-16	1.000000	2.39392e-16	1.000000
rad15	6.52557e-17	1.000000	6.52557e-17	1.000000
PhCH2CCH+H	2.79410e-20	1.000000	2.79410e-20	1.000000
rad9	1.72237e-20	1.000000	1.72237e-20	1.000000
rad25	1.55421e-20	1.000000	1.55421e-20	1.000000
rad60syn	2.19152e-21	1.000000	2.19152e-21	1.000000
PhCHCCH2+H	1.04320e-21	1.000000	1.04320e-21	1.000000
rad60anti	5.94933e-22	1.000000	5.94934e-22	1.000000
rad28	4.26295e-22	1.000000	4.26295e-22	1.000000
rad13	6.81127e-23	1.000000	6.81127e-23	1.000000
rad38	5.54369e-23	1.000000	5.54369e-23	1.000000
Ph+Allene	3.34712e-23	1.000000	3.34712e-23	1.000000
rad7	1.95165e-23	1.000000	1.95165e-23	1.000000
rad35	8.47737e-24	1.000000	8.47737e-24	1.000000
PAH7+H	5.81331e-24	1.000000	5.81331e-24	1.000000

PAH3+H	3.18113e-24	1.000000	3.18113e-24	1.000000
rad59	1.04378e-24	1.000000	1.04378e-24	1.000000
rad33	4.63608e-25	1.000000	4.63608e-25	1.000000
rad46	3.00690e-25	1.000000	3.00690e-25	1.000000
rad26	8.47324e-26	1.000000	8.47324e-26	1.000000
PAH9+H	4.93549e-27	1.000000	4.93549e-27	1.000000
rad3	5.16341e-29	1.000000	5.16341e-29	1.000000
rad4	3.39046e-29	1.000000	3.39046e-29	1.000000
rad50	2.34804e-30	1.000000	2.34804e-30	1.000000
rad10	2.51562e-32	1.000000	2.51562e-32	1.000000
rad39	1.70301e-32	1.000000	1.70301e-32	1.000000
rad58	4.06883e-33	1.000000	4.06883e-33	1.000000
rad2	7.50367e-34	1.000000	7.50367e-34	1.000000
rad52	6.31422e-34	1.000000	6.31422e-34	1.000000
rad1	1.03414e-34	1.000000	1.03414e-34	1.000000
rad12	5.65300e-35	1.000000	5.65300e-35	1.000000
PhCCH+CH3	4.39009e-35	1.000000	4.39009e-35	1.000000
rad51	1.76002e-35	1.000000	1.76002e-35	1.000000
rad37	4.95608e-36	1.000000	4.95609e-36	1.000000
rad14	1.28579e-36	1.000000	1.28579e-36	1.000000
rad31	8.33612e-37	1.000000	8.33612e-37	1.000000
Ph+MeAc	1.66116e-37	1.000000	1.66116e-37	1.000000
rad70	8.73487e-38	1.000000	8.73487e-38	1.000000
rad47	3.24929e-38	1.000000	3.24929e-38	1.000000
rad54	2.42138e-40	1.000000	2.42138e-40	1.000000
PAH10+CH3	1.10213e-40	1.000000	1.10213e-40	1.000000
rad34	9.04391e-41	1.000000	9.04392e-41	1.000000
rad19syn	7.49012e-41	1.000000	7.49012e-41	1.000000
PhCCCH3+H	2.09572e-41	1.000000	2.09573e-41	1.000000
rad65	1.93083e-41	1.000000	1.93083e-41	1.000000
rad27	9.78276e-42	1.000000	9.78276e-42	1.000000
rad55	2.30479e-43	1.000000	2.30479e-43	1.000000
PAH1+H	1.75748e-43	1.000000	1.75748e-43	1.000000
PhycC3H3_A+H	9.56186e-45	1.000000	9.56186e-45	1.000000
rad5	5.37008e-45	1.000000	5.37008e-45	1.000000
rad62	2.57749e-48	1.000000	2.57749e-48	1.000000
rad43	2.86259e-52	1.000000	2.86259e-52	1.000000
rad42	1.33063e-53	1.000000	1.33063e-53	1.000000
rad41	4.51850e-58	1.000000	4.51850e-58	1.000000

10000000.0 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22972e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.998214	0.998214	0.998214	0.998214
rad21	0.00154646	0.999760	0.00154646	0.999760
rad18	0.000238042	0.999999	0.000238042	0.999999
rad22	9.12853e-07	0.999999	9.12853e-07	0.999999
Benzyl+C2H2	2.01447e-07	1.000000	0.000000	0.999999
rad24	4.72791e-08	1.000000	4.72791e-08	0.999999
Indene+H	3.29336e-08	1.000000	3.29336e-08	0.999999
rad45	1.19987e-08	1.000000	1.19987e-08	1.000000
rad36	1.25415e-09	1.000000	1.25415e-09	1.000000
rad11	9.21762e-10	1.000000	9.21762e-10	1.000000
rad23	9.18502e-13	1.000000	9.18502e-13	1.000000
rad6	4.92098e-15	1.000000	4.92098e-15	1.000000
rad30	1.20256e-15	1.000000	1.20256e-15	1.000000
rad8	7.74374e-16	1.000000	7.74374e-16	1.000000
rad15	1.44843e-16	1.000000	1.44843e-16	1.000000
PhCH2CCH+H	1.54958e-19	1.000000	1.54958e-19	1.000000
rad9	7.79129e-20	1.000000	7.79129e-20	1.000000
rad25	4.29217e-20	1.000000	4.29217e-20	1.000000
rad60syn	7.94458e-21	1.000000	7.94458e-21	1.000000
PhCHCCH2+H	3.71323e-21	1.000000	3.71323e-21	1.000000
rad60anti	2.27633e-21	1.000000	2.27633e-21	1.000000
rad28	1.74530e-21	1.000000	1.74530e-21	1.000000
rad13	1.84030e-22	1.000000	1.84030e-22	1.000000
rad38	1.60162e-22	1.000000	1.60162e-22	1.000000
Ph+Allene	1.56333e-22	1.000000	1.56334e-22	1.000000
rad7	5.40309e-23	1.000000	5.40309e-23	1.000000
rad35	4.02762e-23	1.000000	4.02762e-23	1.000000
PAH7+H	2.84533e-23	1.000000	2.84533e-23	1.000000
PAH3+H	1.84317e-23	1.000000	1.84317e-23	1.000000
rad59	5.87770e-24	1.000000	5.87770e-24	1.000000
rad33	1.35365e-24	1.000000	1.35365e-24	1.000000
rad46	1.08382e-24	1.000000	1.08382e-24	1.000000

rad26	4.84419e-25	1.000000	4.84419e-25	1.000000
PAH9+H	1.56664e-26	1.000000	1.56664e-26	1.000000
rad3	2.11633e-28	1.000000	2.11633e-28	1.000000
rad4	1.38740e-28	1.000000	1.38740e-28	1.000000
rad50	1.67380e-29	1.000000	1.67380e-29	1.000000
rad10	1.81801e-31	1.000000	1.81801e-31	1.000000
rad39	1.19020e-31	1.000000	1.19020e-31	1.000000
rad58	8.87292e-32	1.000000	8.87292e-32	1.000000
rad52	6.58404e-33	1.000000	6.58405e-33	1.000000
rad2	4.52464e-33	1.000000	4.52464e-33	1.000000
rad1	6.20753e-34	1.000000	6.20753e-34	1.000000
rad12	4.58932e-34	1.000000	4.58932e-34	1.000000
PhCCH+CH3	3.47318e-34	1.000000	3.47318e-34	1.000000
rad51	2.55036e-34	1.000000	2.55037e-34	1.000000
rad37	4.49353e-35	1.000000	4.49353e-35	1.000000
rad14	9.18753e-36	1.000000	9.18753e-36	1.000000
rad31	3.48854e-36	1.000000	3.48854e-36	1.000000
rad70	2.07203e-36	1.000000	2.07203e-36	1.000000
Ph+MeAc	1.63952e-36	1.000000	1.63952e-36	1.000000
rad47	8.84295e-37	1.000000	8.84295e-37	1.000000
rad34	4.53049e-39	1.000000	4.53049e-39	1.000000
rad54	4.05626e-39	1.000000	4.05626e-39	1.000000
PAH10+CH3	2.02182e-39	1.000000	2.02182e-39	1.000000
rad19syn	1.08276e-39	1.000000	1.08276e-39	1.000000
rad65	3.90347e-40	1.000000	3.90347e-40	1.000000
PhCCCH3+H	2.41896e-40	1.000000	2.41896e-40	1.000000
rad27	9.79481e-41	1.000000	9.79481e-41	1.000000
PAH1+H	7.80662e-42	1.000000	7.80662e-42	1.000000
rad55	6.49405e-42	1.000000	6.49405e-42	1.000000
PhcycC3H3_A+H	3.04023e-43	1.000000	3.04023e-43	1.000000
rad5	9.52688e-44	1.000000	9.52688e-44	1.000000
rad62	7.57960e-47	1.000000	7.57960e-47	1.000000
rad43	9.78412e-51	1.000000	9.78413e-51	1.000000
rad42	7.40483e-52	1.000000	7.40483e-52	1.000000
rad41	2.67321e-56	1.000000	2.67321e-56	1.000000

10000000.0 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.99091e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.997996	0.997996	0.997996	0.997996
rad21	0.00173336	0.999729	0.00173336	0.999729
rad18	0.000268847	0.999998	0.000268847	0.999998
rad22	1.17293e-06	0.999999	1.17293e-06	0.999999
Benzyl+C2H2	2.94991e-07	1.000000	0.00000	0.999999
rad24	6.19770e-08	1.000000	6.19770e-08	0.999999
Indene+H	4.32489e-08	1.000000	4.32489e-08	0.999999
rad45	1.77422e-08	1.000000	1.77422e-08	1.000000
rad36	1.84449e-09	1.000000	1.84449e-09	1.000000
rad11	1.37478e-09	1.000000	1.37478e-09	1.000000
rad23	1.47152e-12	1.000000	1.47152e-12	1.000000
rad6	9.62998e-15	1.000000	9.62998e-15	1.000000
rad30	2.38303e-15	1.000000	2.38303e-15	1.000000
rad8	2.30561e-15	1.000000	2.30561e-15	1.000000
rad15	3.12334e-16	1.000000	3.12334e-16	1.000000
PhCH2CCH+H	7.56063e-19	1.000000	7.56063e-19	1.000000
rad9	3.18276e-19	1.000000	3.18276e-19	1.000000
rad25	1.14945e-19	1.000000	1.14945e-19	1.000000
rad60syn	2.65977e-20	1.000000	2.65977e-20	1.000000
PhCHCCH2+H	1.25263e-20	1.000000	1.25263e-20	1.000000
rad60anti	7.99523e-21	1.000000	7.99523e-21	1.000000
rad28	6.58680e-21	1.000000	6.58680e-21	1.000000
Ph+Allene	6.71548e-22	1.000000	6.71548e-22	1.000000
rad13	4.91892e-22	1.000000	4.91892e-22	1.000000
rad38	4.53260e-22	1.000000	4.53261e-22	1.000000
rad35	1.72580e-22	1.000000	1.72580e-22	1.000000
rad7	1.47871e-22	1.000000	1.47871e-22	1.000000
PAH7+H	1.26274e-22	1.000000	1.26275e-22	1.000000
PAH3+H	9.46138e-23	1.000000	9.46139e-23	1.000000
rad59	2.93551e-23	1.000000	2.93551e-23	1.000000
rad33	3.89190e-24	1.000000	3.89190e-24	1.000000
rad46	3.74684e-24	1.000000	3.74684e-24	1.000000
rad26	2.46881e-24	1.000000	2.46881e-24	1.000000
PAH9+H	4.91151e-26	1.000000	4.91151e-26	1.000000
rad3	8.42700e-28	1.000000	8.42700e-28	1.000000
rad4	5.51709e-28	1.000000	5.51709e-28	1.000000

rad50	1.07208e-28	1.000000	1.07208e-28	1.000000
rad58	1.19887e-30	1.000000	1.19887e-30	1.000000
rad10	1.17420e-30	1.000000	1.17420e-30	1.000000
rad39	7.60786e-31	1.000000	7.60787e-31	1.000000
rad52	5.91400e-32	1.000000	5.91400e-32	1.000000
rad2	2.60570e-32	1.000000	2.60570e-32	1.000000
rad1	3.56222e-33	1.000000	3.56222e-33	1.000000
rad12	3.31411e-33	1.000000	3.31411e-33	1.000000
rad51	2.99264e-33	1.000000	2.99265e-33	1.000000
PhCCH+CH3	2.55937e-33	1.000000	2.55937e-33	1.000000
rad37	3.58692e-34	1.000000	3.58692e-34	1.000000
rad14	6.17618e-35	1.000000	6.17618e-35	1.000000
rad70	3.21986e-35	1.000000	3.21986e-35	1.000000
rad47	1.58633e-35	1.000000	1.58633e-35	1.000000
Ph+MeAc	1.46356e-35	1.000000	1.46356e-35	1.000000
rad31	1.42632e-35	1.000000	1.42632e-35	1.000000
rad34	1.06992e-37	1.000000	1.06992e-37	1.000000
rad54	5.27916e-38	1.000000	5.27916e-38	1.000000
PAH10+CH3	2.76544e-38	1.000000	2.76545e-38	1.000000
rad19syn	1.27553e-38	1.000000	1.27553e-38	1.000000
rad65	5.72166e-39	1.000000	5.72167e-39	1.000000
PhCCCH3+H	2.52353e-39	1.000000	2.52353e-39	1.000000
rad27	9.05158e-40	1.000000	9.05158e-40	1.000000
PAH1+H	1.75721e-40	1.000000	1.75721e-40	1.000000
rad55	1.16760e-40	1.000000	1.16760e-40	1.000000
PhcycC3H3_A+H	5.93471e-42	1.000000	5.93471e-42	1.000000
rad5	1.31981e-42	1.000000	1.31981e-42	1.000000
rad62	1.50796e-45	1.000000	1.50796e-45	1.000000
rad43	2.21243e-49	1.000000	2.21243e-49	1.000000
rad42	2.21555e-50	1.000000	2.21555e-50	1.000000
rad41	8.70425e-55	1.000000	8.70425e-55	1.000000

10000000.0 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17763e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.997749	0.997749	0.997750	0.997750
rad21	0.00194453	0.999694	0.00194453	0.999695
rad18	0.000303943	0.999997	0.000303943	0.999998
rad22	1.50970e-06	0.999999	1.50970e-06	1.000000
Benzyl+C2H2	4.29115e-07	0.999999	0.000000	1.000000
rad24	8.11898e-08	0.999999	8.11898e-08	1.000000
Indene+H	5.69555e-08	1.000000	5.69555e-08	1.000000
rad45	2.62163e-08	1.000000	2.62163e-08	1.000000
rad36	2.71284e-09	1.000000	2.71284e-09	1.000000
rad11	2.04862e-09	1.000000	2.04862e-09	1.000000
rad23	2.36967e-12	1.000000	2.36968e-12	1.000000
rad6	1.87373e-14	1.000000	1.87373e-14	1.000000
rad8	6.38226e-15	1.000000	6.38226e-15	1.000000
rad30	4.63806e-15	1.000000	4.63807e-15	1.000000
rad15	6.56071e-16	1.000000	6.56071e-16	1.000000
PhCH2CCH+H	3.29516e-18	1.000000	3.29516e-18	1.000000
rad9	1.18824e-18	1.000000	1.18824e-18	1.000000
rad25	2.99044e-19	1.000000	2.99044e-19	1.000000
rad60syn	8.30315e-20	1.000000	8.30316e-20	1.000000
PhCHCCH2+H	4.02456e-20	1.000000	4.02456e-20	1.000000
rad60anti	2.60489e-20	1.000000	2.60489e-20	1.000000
rad28	2.31215e-20	1.000000	2.31215e-20	1.000000
Ph+Allene	2.67740e-21	1.000000	2.67741e-21	1.000000
rad13	1.29859e-21	1.000000	1.29859e-21	1.000000
rad38	1.25740e-21	1.000000	1.25740e-21	1.000000
rad35	6.75371e-22	1.000000	6.75371e-22	1.000000
PAH7+H	5.13756e-22	1.000000	5.13756e-22	1.000000
PAH3+H	4.36553e-22	1.000000	4.36553e-22	1.000000
rad7	3.99446e-22	1.000000	3.99446e-22	1.000000
rad59	1.31922e-22	1.000000	1.31922e-22	1.000000
rad46	1.24741e-23	1.000000	1.24741e-23	1.000000
rad26	1.13656e-23	1.000000	1.13656e-23	1.000000
rad33	1.10018e-23	1.000000	1.10018e-23	1.000000
PAH9+H	1.52003e-25	1.000000	1.52003e-25	1.000000
rad3	3.25744e-27	1.000000	3.25744e-27	1.000000
rad4	2.13037e-27	1.000000	2.13037e-27	1.000000
rad50	6.25310e-28	1.000000	6.25311e-28	1.000000
rad58	1.13459e-29	1.000000	1.13459e-29	1.000000
rad10	6.84844e-30	1.000000	6.84844e-30	1.000000
rad39	4.47556e-30	1.000000	4.47556e-30	1.000000

rad52	4.66189e-31	1.000000	4.66190e-31	1.00000
rad2	1.43013e-31	1.000000	1.43013e-31	1.00000
rad51	2.93253e-32	1.000000	2.93253e-32	1.00000
rad12	2.14338e-32	1.000000	2.14338e-32	1.00000
rad1	1.95022e-32	1.000000	1.95022e-32	1.00000
PhCCH+CH3	1.74599e-32	1.000000	1.74599e-32	1.00000
rad37	2.52806e-33	1.000000	2.52806e-33	1.00000
rad14	3.89104e-34	1.000000	3.89104e-34	1.00000
rad70	3.38367e-34	1.000000	3.38367e-34	1.00000
rad47	1.98715e-34	1.000000	1.98715e-34	1.00000
Ph+MeAc	1.16690e-34	1.000000	1.16690e-34	1.00000
rad31	5.70023e-35	1.000000	5.70024e-35	1.00000
rad34	1.24809e-36	1.000000	1.24809e-36	1.00000
rad54	5.26523e-37	1.000000	5.26523e-37	1.00000
PAH10+CH3	2.73943e-37	1.000000	2.73943e-37	1.00000
rad19syn	1.20320e-37	1.000000	1.20320e-37	1.00000
rad65	6.26934e-38	1.000000	6.26934e-38	1.00000
PhCCCH3+H	2.30483e-38	1.000000	2.30483e-38	1.00000
rad27	7.53811e-39	1.000000	7.53811e-39	1.00000
PAH1+H	2.01333e-39	1.000000	2.01334e-39	1.00000
rad55	1.32989e-39	1.000000	1.32990e-39	1.00000
PhcycC3H3_A+H	6.90762e-41	1.000000	6.90762e-41	1.00000
rad5	1.34479e-41	1.000000	1.34479e-41	1.00000
rad62	1.92715e-44	1.000000	1.92715e-44	1.00000
rad43	3.02061e-48	1.000000	3.02062e-48	1.00000
rad42	3.20011e-49	1.000000	3.20011e-49	1.00000
rad41	1.29214e-53	1.000000	1.29214e-53	1.00000

10000000.0 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19452e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.997470	0.997470	0.997471	0.997471
rad21	0.00218318	0.999653	0.00218318	0.999654
rad18	0.000343936	0.999997	0.000343936	0.999998
rad22	1.94587e-06	0.999999	1.94587e-06	1.00000
Benzyl+C2H2	6.20033e-07	1.000000	0.00000	1.00000
rad24	1.06215e-07	1.000000	1.06215e-07	1.00000
Indene+H	7.51876e-08	1.000000	7.51877e-08	1.00000
rad45	3.86771e-08	1.000000	3.86772e-08	1.00000
rad36	3.98695e-09	1.000000	3.98695e-09	1.00000
rad11	3.04776e-09	1.000000	3.04776e-09	1.00000
rad23	3.83163e-12	1.000000	3.83163e-12	1.00000
rad6	3.62107e-14	1.000000	3.62108e-14	1.00000
rad8	1.65651e-14	1.000000	1.65651e-14	1.00000
rad30	8.87520e-15	1.000000	8.87520e-15	1.00000
rad15	1.34540e-15	1.000000	1.34540e-15	1.00000
PhCH2CCH+H	1.29942e-17	1.000000	1.29942e-17	1.00000
rad9	4.09563e-18	1.000000	4.09564e-18	1.00000
rad25	7.56987e-19	1.000000	7.56987e-19	1.00000
rad60syn	2.43658e-19	1.000000	2.43659e-19	1.00000
PhCHCCH2+H	1.23663e-19	1.000000	1.23663e-19	1.00000
rad60anti	7.94195e-20	1.000000	7.94196e-20	1.00000
rad28	7.60627e-20	1.000000	7.60628e-20	1.00000
Ph+Allene	9.98366e-21	1.000000	9.98366e-21	1.00000
rad38	3.42244e-21	1.000000	3.42244e-21	1.00000
rad13	3.38169e-21	1.000000	3.38169e-21	1.00000
rad35	2.43937e-21	1.000000	2.43937e-21	1.00000
PAH7+H	1.93416e-21	1.000000	1.93416e-21	1.00000
PAH3+H	1.83275e-21	1.000000	1.83275e-21	1.00000
rad7	1.06378e-21	1.000000	1.06378e-21	1.00000
rad59	5.39991e-22	1.000000	5.39991e-22	1.00000
rad26	4.77948e-23	1.000000	4.77948e-23	1.00000
rad46	4.01428e-23	1.000000	4.01428e-23	1.00000
rad33	3.05423e-23	1.000000	3.05423e-23	1.00000
PAH9+H	4.64348e-25	1.000000	4.64348e-25	1.00000
rad3	1.22166e-26	1.000000	1.22166e-26	1.00000
rad4	7.98372e-27	1.000000	7.98372e-27	1.00000
rad50	3.36102e-27	1.000000	3.36102e-27	1.00000
rad58	8.93390e-29	1.000000	8.93390e-29	1.00000
rad10	3.64333e-29	1.000000	3.64333e-29	1.00000
rad39	2.44196e-29	1.000000	2.44196e-29	1.00000
rad52	3.28682e-30	1.000000	3.28682e-30	1.00000
rad2	7.47350e-31	1.000000	7.47350e-31	1.00000
rad51	2.50102e-31	1.000000	2.50103e-31	1.00000
rad12	1.25549e-31	1.000000	1.25549e-31	1.00000

PhCCH+CH3	1.10557e-31	1.000000	1.10557e-31	1.000000
rad1	1.01770e-31	1.000000	1.01770e-31	1.000000
rad37	1.59788e-32	1.000000	1.59788e-32	1.000000
rad70	2.94789e-33	1.000000	2.94789e-33	1.000000
rad14	2.29881e-33	1.000000	2.29881e-33	1.000000
rad47	2.08065e-33	1.000000	2.08065e-33	1.000000
Ph+MeAc	8.41977e-34	1.000000	8.41978e-34	1.000000
rad31	2.22788e-34	1.000000	2.22789e-34	1.000000
rad34	1.17705e-35	1.000000	1.17705e-35	1.000000
rad54	4.45663e-36	1.000000	4.45663e-36	1.000000
PAH10+CH3	2.28086e-36	1.000000	2.28086e-36	1.000000
rad19syn	9.75852e-37	1.000000	9.75853e-37	1.000000
rad65	5.83217e-37	1.000000	5.83217e-37	1.000000
PhCCCH3+H	1.88541e-37	1.000000	1.88541e-37	1.000000
rad27	5.71577e-38	1.000000	5.71577e-38	1.000000
PAH1+H	1.86887e-38	1.000000	1.86887e-38	1.000000
rad55	1.24675e-38	1.000000	1.24675e-38	1.000000
PhcycC3H3_A+H	6.58330e-40	1.000000	6.58330e-40	1.000000
rad5	1.15762e-40	1.000000	1.15762e-40	1.000000
rad62	2.03322e-43	1.000000	2.03322e-43	1.000000
rad43	3.39314e-47	1.000000	3.39314e-47	1.000000
rad42	3.72945e-48	1.000000	3.72945e-48	1.000000
rad41	1.55579e-52	1.000000	1.55579e-52	1.000000

10000000.0 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.04140e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.997154	0.997154	0.997155	0.997155
rad21	0.00245287	0.999607	0.00245287	0.999608
rad18	0.000389505	0.999996	0.000389505	0.999997
rad22	2.51068e-06	0.999999	2.51068e-06	1.000000
Benzyl+C2H2	8.89822e-07	1.000000	0.000000	1.000000
rad24	1.38674e-07	1.000000	1.38674e-07	1.000000
Indene+H	9.94531e-08	1.000000	9.94532e-08	1.000000
rad45	5.69260e-08	1.000000	5.69261e-08	1.000000
rad36	5.85055e-09	1.000000	5.85055e-09	1.000000
rad11	4.52387e-09	1.000000	4.52388e-09	1.000000
rad23	6.21438e-12	1.000000	6.21439e-12	1.000000
rad6	6.94447e-14	1.000000	6.94447e-14	1.000000
rad8	4.06041e-14	1.000000	4.06041e-14	1.000000
rad30	1.67122e-14	1.000000	1.67122e-14	1.000000
rad15	2.69847e-15	1.000000	2.69847e-15	1.000000
PhCH2CCH+H	4.68727e-17	1.000000	4.68728e-17	1.000000
rad9	1.31468e-17	1.000000	1.31468e-17	1.000000
rad25	1.86699e-18	1.000000	1.86700e-18	1.000000
rad60syn	6.76732e-19	1.000000	6.76733e-19	1.000000
PhCHCCH2+H	3.64679e-19	1.000000	3.64679e-19	1.000000
rad28	2.36001e-19	1.000000	2.36002e-19	1.000000
rad60anti	2.28276e-19	1.000000	2.28277e-19	1.000000
Ph+Allene	3.50417e-20	1.000000	3.50417e-20	1.000000
rad38	9.14993e-21	1.000000	9.14994e-21	1.000000
rad13	8.67794e-21	1.000000	8.67795e-21	1.000000
rad35	8.20414e-21	1.000000	8.20415e-21	1.000000
PAH3+H	7.07300e-21	1.000000	7.07300e-21	1.000000
PAH7+H	6.79095e-21	1.000000	6.79095e-21	1.000000
rad7	2.79043e-21	1.000000	2.79043e-21	1.000000
rad59	2.03398e-21	1.000000	2.03398e-21	1.000000
rad26	1.85329e-22	1.000000	1.85329e-22	1.000000
rad46	1.25308e-22	1.000000	1.25308e-22	1.000000
rad33	8.31922e-23	1.000000	8.31923e-23	1.000000
PAH9+H	1.40064e-24	1.000000	1.40064e-24	1.000000
rad3	4.44264e-26	1.000000	4.44264e-26	1.000000
rad4	2.90212e-26	1.000000	2.90213e-26	1.000000
rad50	1.68155e-26	1.000000	1.68155e-26	1.000000
rad58	6.05381e-28	1.000000	6.05381e-28	1.000000
rad10	1.78105e-28	1.000000	1.78105e-28	1.000000
rad39	1.24280e-28	1.000000	1.24280e-28	1.000000
rad52	2.10000e-29	1.000000	2.10000e-29	1.000000
rad2	3.71197e-30	1.000000	3.71198e-30	1.000000
rad51	1.88965e-30	1.000000	1.88965e-30	1.000000
rad12	6.70751e-31	1.000000	6.70751e-31	1.000000
PhCCH+CH3	6.49730e-31	1.000000	6.49730e-31	1.000000
rad1	5.05357e-31	1.000000	5.05358e-31	1.000000
rad37	9.13038e-32	1.000000	9.13039e-32	1.000000
rad70	2.20548e-32	1.000000	2.20548e-32	1.000000

rad47	1.87957e-32	1.00000	1.87957e-32	1.00000
rad14	1.27231e-32	1.00000	1.27231e-32	1.00000
Ph+MeAc	5.52182e-33	1.00000	5.52182e-33	1.00000
rad31	8.51844e-34	1.00000	8.51845e-34	1.00000
rad34	9.44617e-35	1.00000	9.44618e-35	1.00000
rad54	3.27915e-35	1.00000	3.27915e-35	1.00000
PAH10+CH3	1.64331e-35	1.00000	1.64331e-35	1.00000
rad19syn	6.93696e-36	1.00000	6.93697e-36	1.00000
rad65	4.73962e-36	1.00000	4.73963e-36	1.00000
PhCCCH3+H	1.38917e-36	1.00000	1.38917e-36	1.00000
rad27	3.95215e-37	1.00000	3.95215e-37	1.00000
PAH1+H	1.47731e-37	1.00000	1.47732e-37	1.00000
rad55	9.99928e-38	1.00000	9.99929e-38	1.00000
PhcycC3H3_A+H	5.35747e-39	1.00000	5.35747e-39	1.00000
rad5	8.64975e-40	1.00000	8.64976e-40	1.00000
rad62	1.83789e-42	1.00000	1.83789e-42	1.00000
rad43	3.26439e-46	1.00000	3.26439e-46	1.00000
rad42	3.68636e-47	1.00000	3.68637e-47	1.00000
rad41	1.59770e-51	1.00000	1.59770e-51	1.00000

10000000.0 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89357e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.996796	0.996796	0.996797	0.996797
rad21	0.00275754	0.999554	0.00275754	0.999555
rad18	0.000441409	0.999995	0.000441409	0.999996
rad22	3.24163e-06	0.999998	3.24164e-06	0.999999
Benzyl+C2H2	1.26831e-06	0.999999	0.00000	0.999999
rad24	1.80574e-07	1.000000	1.80574e-07	0.999999
Indene+H	1.31752e-07	1.000000	1.31752e-07	1.000000
rad45	8.35255e-08	1.000000	8.35256e-08	1.000000
rad36	8.56631e-09	1.000000	8.56632e-09	1.000000
rad11	6.69577e-09	1.000000	6.69578e-09	1.000000
rad23	1.00997e-11	1.000000	1.00997e-11	1.000000
rad6	1.32072e-13	1.000000	1.32072e-13	1.000000
rad8	9.45712e-14	1.000000	9.45713e-14	1.000000
rad30	3.09901e-14	1.000000	3.09902e-14	1.000000
rad15	5.30173e-15	1.000000	5.30174e-15	1.000000
PhCH2CCH+H	1.56109e-16	1.000000	1.56109e-16	1.000000
rad9	3.95914e-17	1.000000	3.95915e-17	1.000000
rad25	4.49180e-18	1.000000	4.49180e-18	1.000000
rad60syn	1.78914e-18	1.000000	1.78914e-18	1.000000
PhCHCCH2+H	1.03517e-18	1.000000	1.03517e-18	1.000000
rad28	6.94360e-19	1.000000	6.94361e-19	1.000000
rad60anti	6.22454e-19	1.000000	6.22455e-19	1.000000
Ph+Allene	1.16381e-19	1.000000	1.16381e-19	1.000000
rad35	2.58831e-20	1.000000	2.58831e-20	1.000000
PAH3+H	2.53062e-20	1.000000	2.53062e-20	1.000000
rad38	2.40606e-20	1.000000	2.40606e-20	1.000000
PAH7+H	2.23835e-20	1.000000	2.23836e-20	1.000000
rad13	2.19263e-20	1.000000	2.19264e-20	1.000000
rad7	7.20440e-21	1.000000	7.20441e-21	1.000000
rad59	7.11060e-21	1.000000	7.11061e-21	1.000000
rad26	6.67855e-22	1.000000	6.67855e-22	1.000000
rad46	3.80703e-22	1.000000	3.80704e-22	1.000000
rad33	2.22171e-22	1.000000	2.22171e-22	1.000000
PAH9+H	4.17447e-24	1.000000	4.17448e-24	1.000000
rad3	1.56512e-25	1.000000	1.56512e-25	1.000000
rad4	1.02235e-25	1.000000	1.02235e-25	1.000000
rad50	7.89544e-26	1.000000	7.89545e-26	1.000000
rad58	3.56674e-27	1.000000	3.56675e-27	1.000000
rad10	8.04050e-28	1.000000	8.04051e-28	1.000000
rad39	5.92212e-28	1.000000	5.92213e-28	1.000000
rad52	1.22764e-28	1.000000	1.22764e-28	1.000000
rad2	1.74714e-29	1.000000	1.74714e-29	1.000000
rad51	1.27898e-29	1.000000	1.27898e-29	1.000000
PhCCH+CH3	3.53663e-30	1.000000	3.53663e-30	1.000000
rad12	3.28139e-30	1.000000	3.28140e-30	1.000000
rad1	2.38102e-30	1.000000	2.38102e-30	1.000000
rad37	4.73514e-31	1.000000	4.73515e-31	1.000000
rad47	1.48467e-31	1.000000	1.48467e-31	1.000000
rad70	1.43051e-31	1.000000	1.43051e-31	1.000000
rad14	6.57955e-32	1.000000	6.57956e-32	1.000000
Ph+MeAc	3.29294e-32	1.000000	3.29294e-32	1.000000
rad31	3.18601e-33	1.000000	3.18601e-33	1.000000

rad34	6.50178e-34	1.000000	6.50179e-34	1.000000
rad54	2.11427e-34	1.000000	2.11427e-34	1.000000
PAH10+CH3	1.03285e-34	1.000000	1.03285e-34	1.000000
rad19syn	4.35077e-35	1.000000	4.35078e-35	1.000000
rad65	3.40677e-35	1.000000	3.40677e-35	1.000000
PhCCCH3+H	9.22303e-36	1.000000	9.22304e-36	1.000000
rad27	2.48780e-36	1.000000	2.48780e-36	1.000000
PAH1+H	1.00236e-36	1.000000	1.00236e-36	1.000000
rad55	6.92412e-37	1.000000	6.92413e-37	1.000000
PhcycC3H3_A+H	3.75543e-38	1.000000	3.75544e-38	1.000000
rad5	5.65030e-39	1.000000	5.65031e-39	1.000000
rad62	1.43688e-41	1.000000	1.43688e-41	1.000000
rad43	2.71539e-45	1.000000	2.71539e-45	1.000000
rad42	3.11895e-46	1.000000	3.11895e-46	1.000000
rad41	1.41085e-50	1.000000	1.41085e-50	1.000000

10000000.0 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.20014e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.996391	0.996391	0.996393	0.996393
rad21	0.00310154	0.999493	0.00310155	0.999495
rad18	0.000500497	0.999993	0.000500498	0.999995
rad22	4.18672e-06	0.999997	4.18673e-06	0.999999
Benzyl+C2H2	1.79548e-06	0.999999	0.00000	0.999999
rad24	2.34376e-07	0.999999	2.34377e-07	0.999999
Indene+H	1.74731e-07	0.999999	1.74731e-07	1.000000
rad45	1.22092e-07	1.000000	1.22093e-07	1.000000
rad36	1.25073e-08	1.000000	1.25073e-08	1.000000
rad11	9.87728e-09	1.000000	9.87729e-09	1.000000
rad23	1.64335e-11	1.000000	1.64335e-11	1.000000
rad6	2.48952e-13	1.000000	2.48953e-13	1.000000
rad8	2.10397e-13	1.000000	2.10397e-13	1.000000
rad30	5.66280e-14	1.000000	5.66281e-14	1.000000
rad15	1.02170e-14	1.000000	1.02170e-14	1.000000
PhCH2CCH+H	4.83850e-16	1.000000	4.83851e-16	1.000000
rad9	1.12564e-16	1.000000	1.12564e-16	1.000000
rad25	1.05530e-17	1.000000	1.05531e-17	1.000000
rad60syn	4.52450e-18	1.000000	4.52451e-18	1.000000
PhCHCCH2+H	2.83529e-18	1.000000	2.83530e-18	1.000000
rad28	1.94608e-18	1.000000	1.94608e-18	1.000000
rad60anti	1.61867e-18	1.000000	1.61867e-18	1.000000
Ph+Allene	3.67310e-19	1.000000	3.67310e-19	1.000000
PAH3+H	8.45367e-20	1.000000	8.45369e-20	1.000000
rad35	7.70734e-20	1.000000	7.70735e-20	1.000000
PAH7+H	6.96441e-20	1.000000	6.96442e-20	1.000000
rad38	6.23280e-20	1.000000	6.23281e-20	1.000000
rad13	5.45102e-20	1.000000	5.45103e-20	1.000000
rad59	2.32362e-20	1.000000	2.32362e-20	1.000000
rad7	1.82963e-20	1.000000	1.82963e-20	1.000000
rad26	2.25137e-21	1.000000	2.25137e-21	1.000000
rad46	1.12941e-21	1.000000	1.12941e-21	1.000000
rad33	5.81339e-22	1.000000	5.81340e-22	1.000000
PAH9+H	1.23057e-23	1.000000	1.23057e-23	1.000000
rad3	5.33458e-25	1.000000	5.33459e-25	1.000000
rad50	3.50274e-25	1.000000	3.50275e-25	1.000000
rad4	3.48583e-25	1.000000	3.48584e-25	1.000000
rad58	1.85144e-26	1.000000	1.85144e-26	1.000000
rad10	3.36569e-27	1.000000	3.36570e-27	1.000000
rad39	2.65197e-27	1.000000	2.65198e-27	1.000000
rad52	6.62015e-28	1.000000	6.62017e-28	1.000000
rad51	7.83409e-29	1.000000	7.83410e-29	1.000000
rad2	7.77110e-29	1.000000	7.77112e-29	1.000000
PhCCH+CH3	1.78190e-29	1.000000	1.78190e-29	1.000000
rad12	1.47553e-29	1.000000	1.47554e-29	1.000000
rad1	1.06157e-29	1.000000	1.06158e-29	1.000000
rad37	2.23881e-30	1.000000	2.23882e-30	1.000000
rad47	1.03981e-30	1.000000	1.03981e-30	1.000000
rad70	8.15189e-31	1.000000	8.15190e-31	1.000000
rad14	3.17387e-31	1.000000	3.17388e-31	1.000000
Ph+MeAc	1.79025e-31	1.000000	1.79025e-31	1.000000
rad31	1.16493e-32	1.000000	1.16493e-32	1.000000
rad34	3.89864e-33	1.000000	3.89864e-33	1.000000
rad54	1.20719e-33	1.000000	1.20719e-33	1.000000
PAH10+CH3	5.72963e-34	1.000000	5.72964e-34	1.000000
rad19syn	2.42906e-34	1.000000	2.42907e-34	1.000000

rad65	2.19521e-34	1.000000	2.19521e-34	1.000000
PhCCCH3+H	5.53860e-35	1.000000	5.53861e-35	1.000000
rad27	1.42781e-35	1.000000	1.42781e-35	1.000000
PAH1+H	5.92844e-36	1.000000	5.92845e-36	1.000000
rad55	4.19723e-36	1.000000	4.19724e-36	1.000000
PhcycC3H3_A+H	2.29999e-37	1.000000	2.29999e-37	1.000000
rad5	3.26309e-38	1.000000	3.26310e-38	1.000000
rad62	9.85152e-41	1.000000	9.85154e-41	1.000000
rad43	1.98112e-44	1.000000	1.98112e-44	1.000000
rad42	2.29549e-45	1.000000	2.29549e-45	1.000000
rad41	1.08815e-49	1.000000	1.08815e-49	1.000000

10000000.0 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17739e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.993526	0.993526	0.993536	0.993536
rad21	0.00550514	0.999031	0.00550520	0.999041
rad18	0.000936443	0.999968	0.000936453	0.999978
rad22	1.89728e-05	0.999987	1.89730e-05	0.999997
Benzyl+C2H2	1.03274e-05	0.999997	0.00000	0.999997
rad45	1.20282e-06	0.999998	1.20283e-06	0.999998
Indene+H	9.24330e-07	0.999999	9.24340e-07	0.999999
rad24	8.66545e-07	1.000000	8.66554e-07	1.000000
rad11	9.40478e-08	1.000000	9.40488e-08	1.000000
rad36	7.01838e-08	1.000000	7.01846e-08	1.000000
rad23	5.25307e-10	1.000000	5.25313e-10	1.000000
rad6	1.96080e-11	1.000000	1.96082e-11	1.000000
rad9	7.43251e-12	1.000000	7.43259e-12	1.000000
rad30	1.94335e-12	1.000000	1.94337e-12	1.000000
rad15	4.69174e-13	1.000000	4.69178e-13	1.000000
PhCH2CCH+H	1.52595e-13	1.000000	1.52597e-13	1.000000
rad8	1.47877e-13	1.000000	1.47878e-13	1.000000
rad25	4.27835e-15	1.000000	4.27839e-15	1.000000
PhCHCCH2+H	4.11829e-15	1.000000	4.11833e-15	1.000000
rad28	1.66765e-15	1.000000	1.66767e-15	1.000000
rad60syn	1.20801e-15	1.000000	1.20802e-15	1.000000
Ph+Allene	1.17220e-15	1.000000	1.17221e-15	1.000000
rad60anti	5.28234e-16	1.000000	5.28239e-16	1.000000
rad38	2.67274e-16	1.000000	2.67276e-16	1.000000
PAH3+H	2.22013e-16	1.000000	2.22016e-16	1.000000
PAH7+H	1.38272e-16	1.000000	1.38273e-16	1.000000
rad35	6.77345e-17	1.000000	6.77352e-17	1.000000
rad13	6.56635e-17	1.000000	6.56642e-17	1.000000
rad12	4.92559e-17	1.000000	4.92564e-17	1.000000
rad59	4.30323e-17	1.000000	4.30328e-17	1.000000
rad7	3.10283e-17	1.000000	3.10286e-17	1.000000
rad46	2.23945e-17	1.000000	2.23948e-17	1.000000
rad26	7.75311e-18	1.000000	7.75319e-18	1.000000
PAH9+H	1.74034e-18	1.000000	1.74036e-18	1.000000
rad33	9.41698e-19	1.000000	9.41708e-19	1.000000
rad50	7.17925e-19	1.000000	7.17933e-19	1.000000
rad19anti	4.53110e-19	1.000000	4.53115e-19	1.000000
rad39	4.58723e-20	1.000000	4.58728e-20	1.000000
rad19syn	4.41425e-20	1.000000	4.41430e-20	1.000000
rad51	2.24345e-20	1.000000	2.24347e-20	1.000000
rad3	2.20097e-20	1.000000	2.20100e-20	1.000000
rad52	1.93389e-20	1.000000	1.93391e-20	1.000000
rad4	1.41910e-20	1.000000	1.41911e-20	1.000000
rad58	4.88457e-21	1.000000	4.88462e-21	1.000000
rad47	7.44846e-22	1.000000	7.44854e-22	1.000000
rad2	4.05576e-22	1.000000	4.05580e-22	1.000000
rad10	3.56940e-22	1.000000	3.56944e-22	1.000000
PhCCH+CH3	2.37163e-22	1.000000	2.37165e-22	1.000000
rad67	1.24818e-22	1.000000	1.24819e-22	1.000000
rad1	5.39404e-23	1.000000	5.39410e-23	1.000000
rad5	3.15806e-23	1.000000	3.15809e-23	1.000000
rad70	2.93511e-23	1.000000	2.93514e-23	1.000000
rad65	1.33580e-23	1.000000	1.33582e-23	1.000000
Ph+MeAc	1.13289e-23	1.000000	1.13291e-23	1.000000
rad37	7.36332e-24	1.000000	7.36340e-24	1.000000
rad73	3.83293e-24	1.000000	3.83297e-24	1.000000
PAH10+CH3	1.90789e-24	1.000000	1.90791e-24	1.000000
rad34	1.78425e-24	1.000000	1.78427e-24	1.000000
rad71	1.62817e-24	1.000000	1.62819e-24	1.000000
rad14	1.58856e-24	1.000000	1.58857e-24	1.000000

PAH1+H	9.96818e-25	1.00000	9.96829e-25	1.000000
PhCCCH3+H	5.59651e-25	1.00000	5.59656e-25	1.000000
rad54	1.01157e-25	1.00000	1.01158e-25	1.000000
rad64	9.38968e-27	1.00000	9.38978e-27	1.000000
rad27	8.79662e-27	1.00000	8.79671e-27	1.000000
PhcycC3H3_A+H	7.60383e-27	1.00000	7.60391e-27	1.000000
rad68syn	4.21258e-27	1.00000	4.21262e-27	1.000000
rad72	3.75358e-27	1.00000	3.75362e-27	1.000000
rad55	3.05813e-27	1.00000	3.05816e-27	1.000000
rad68anti	2.82466e-27	1.00000	2.82469e-27	1.000000
PAH8+H	2.80405e-27	1.00000	2.80408e-27	1.000000
rad62	1.27613e-27	1.00000	1.27615e-27	1.000000
rad31	7.64936e-28	1.00000	7.64944e-28	1.000000
rad40syn	6.07135e-28	1.00000	6.07141e-28	1.000000
rad61	4.51423e-28	1.00000	4.51428e-28	1.000000
rad40anti	2.76930e-28	1.00000	2.76933e-28	1.000000
rad53	1.02568e-28	1.00000	1.02570e-28	1.000000
rad43	8.89354e-29	1.00000	8.89363e-29	1.000000
rad56	5.33170e-29	1.00000	5.33175e-29	1.000000
rad42	5.12459e-29	1.00000	5.12464e-29	1.000000
rad41	3.03164e-30	1.00000	3.03167e-30	1.000000

10000000.0 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.44453e-22 (1.00)	2.44452e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.995417	0.995417	0.995421	0.995421
rad21	0.00392725	0.999344	0.00392726	0.999348
rad18	0.000644120	0.999988	0.000644123	0.999992
rad22	6.98069e-06	0.999995	6.98072e-06	0.999999
Benzyl+C2H2	3.52564e-06	0.999999	0.00000	0.999999
rad24	3.90234e-07	0.999999	3.90236e-07	1.000000
Indene+H	3.07799e-07	1.000000	3.07800e-07	1.000000
rad45	2.57347e-07	1.000000	2.57347e-07	1.000000
rad36	2.63830e-08	1.000000	2.63831e-08	1.000000
rad11	2.12445e-08	1.000000	2.12446e-08	1.000000
rad23	4.35338e-11	1.000000	4.35339e-11	1.000000
rad8	9.23483e-13	1.000000	9.23486e-13	1.000000
rad6	8.59851e-13	1.000000	8.59854e-13	1.000000
rad30	1.81326e-13	1.000000	1.81327e-13	1.000000
rad15	3.59611e-14	1.000000	3.59612e-14	1.000000
PhCH2CCH+H	3.84524e-15	1.000000	3.84526e-15	1.000000
rad9	7.81590e-16	1.000000	7.81592e-16	1.000000
rad25	5.44293e-17	1.000000	5.44295e-17	1.000000
rad60syn	2.57223e-17	1.000000	2.57224e-17	1.000000
PhCHCCH2+H	1.92510e-17	1.000000	1.92511e-17	1.000000
rad28	1.34095e-17	1.000000	1.34095e-17	1.000000
rad60anti	9.65731e-18	1.000000	9.65734e-18	1.000000
Ph+Allene	3.18002e-18	1.000000	3.18003e-18	1.000000
PAH3+H	7.85151e-19	1.000000	7.85154e-19	1.000000
rad35	5.85975e-19	1.000000	5.85977e-19	1.000000
PAH7+H	5.77134e-19	1.000000	5.77136e-19	1.000000
rad38	4.02760e-19	1.000000	4.02761e-19	1.000000
rad13	3.20036e-19	1.000000	3.20037e-19	1.000000
rad59	2.07294e-19	1.000000	2.07294e-19	1.000000
rad7	1.12010e-19	1.000000	1.12010e-19	1.000000
rad26	2.13840e-20	1.000000	2.13840e-20	1.000000
rad46	9.36863e-21	1.000000	9.36866e-21	1.000000
rad33	3.73376e-21	1.000000	3.73377e-21	1.000000
PAH9+H	1.03959e-22	1.000000	1.03959e-22	1.000000
rad50	5.92841e-24	1.000000	5.92843e-24	1.000000
rad3	5.57254e-24	1.000000	5.57256e-24	1.000000
rad4	3.64893e-24	1.000000	3.64894e-24	1.000000
rad58	3.56656e-25	1.000000	3.56658e-25	1.000000
rad10	4.76227e-26	1.000000	4.76229e-26	1.000000
rad39	4.47869e-26	1.000000	4.47871e-26	1.000000
rad52	1.54739e-26	1.000000	1.54739e-26	1.000000
rad51	2.24729e-27	1.000000	2.24730e-27	1.000000
rad2	1.28687e-27	1.000000	1.28688e-27	1.000000
PhCCH+CH3	3.59750e-28	1.000000	3.59752e-28	1.000000
rad12	2.34977e-28	1.000000	2.34978e-28	1.000000
rad1	1.77427e-28	1.000000	1.77428e-28	1.000000
rad37	3.85999e-29	1.000000	3.86000e-29	1.000000
rad47	3.70693e-29	1.000000	3.70694e-29	1.000000
rad70	1.87834e-29	1.000000	1.87834e-29	1.000000
rad14	5.98308e-30	1.000000	5.98310e-30	1.000000

Ph+MeAc	4.06656e-30	1.000000	4.06657e-30	1.00000
rad31	1.44854e-31	1.000000	1.44854e-31	1.00000
rad34	9.75668e-32	1.000000	9.75672e-32	1.00000
rad54	2.83658e-32	1.000000	2.83659e-32	1.00000
PAH10+CH3	1.26297e-32	1.000000	1.26298e-32	1.00000
rad65	6.84742e-33	1.000000	6.84744e-33	1.00000
rad19syn	5.51718e-33	1.000000	5.51720e-33	1.00000
PhCCCH3+H	1.50710e-33	1.000000	1.50710e-33	1.00000
rad27	3.60973e-34	1.000000	3.60974e-34	1.00000
PAH1+H	1.44544e-34	1.000000	1.44545e-34	1.00000
rad55	1.08350e-34	1.000000	1.08350e-34	1.00000
PhcycC3H3_A+H	6.03226e-36	1.000000	6.03228e-36	1.00000
rad5	7.83006e-37	1.000000	7.83009e-37	1.00000
rad62	3.27223e-39	1.000000	3.27225e-39	1.00000
rad43	7.45843e-43	1.000000	7.45845e-43	1.00000
rad42	8.62198e-44	1.000000	8.62201e-44	1.00000
rad41	4.53124e-48	1.000000	4.53125e-48	1.00000

10000000.0 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.60269e-20 (1.00)	3.60201e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.978589	0.978589	0.978773	0.978773
rad21	0.0176204	0.996209	0.0176237	0.996397
rad18	0.00331727	0.999527	0.00331789	0.999715
rad22	0.000229481	0.999756	0.000229524	0.999944
Benzyl+C2H2	0.000187250	0.999943	0.00000	0.999944
rad45	2.92848e-05	0.999973	2.92903e-05	0.999973
Indene+H	1.55091e-05	0.999988	1.55120e-05	0.999989
rad24	6.69204e-06	0.999995	6.69329e-06	0.999996
rad11	3.01039e-06	0.999998	3.01095e-06	0.999999
rad36	1.66979e-06	1.000000	1.67010e-06	1.00000
rad23	1.52890e-07	1.000000	1.52918e-07	1.00000
rad6	4.19334e-09	1.000000	4.19412e-09	1.00000
rad9	1.28337e-09	1.000000	1.28361e-09	1.00000
rad30	2.30712e-10	1.000000	2.30755e-10	1.00000
PhCH2CCH+H	9.95967e-11	1.000000	9.96154e-11	1.00000
rad15	6.71564e-11	1.000000	6.71690e-11	1.00000
rad38	4.29916e-11	1.000000	4.29997e-11	1.00000
PAH9+H	2.77734e-11	1.000000	2.77786e-11	1.00000
rad46	1.11225e-11	1.000000	1.11246e-11	1.00000
PhCHCCH2+H	7.90582e-12	1.000000	7.90730e-12	1.00000
Ph+Allene	6.73654e-12	1.000000	6.73780e-12	1.00000
rad8	5.72961e-12	1.000000	5.73068e-12	1.00000
rad50	5.56819e-12	1.000000	5.56923e-12	1.00000
rad28	5.08116e-12	1.000000	5.08211e-12	1.00000
PAH7+H	4.82091e-12	1.000000	4.82181e-12	1.00000
rad35	4.40278e-12	1.000000	4.40360e-12	1.00000
rad25	2.42828e-12	1.000000	2.42874e-12	1.00000
rad39	1.78432e-12	1.000000	1.78466e-12	1.00000
rad51	1.17465e-12	1.000000	1.17487e-12	1.00000
rad60syn	5.25215e-13	1.000000	5.25313e-13	1.00000
rad52	4.10637e-13	1.000000	4.10714e-13	1.00000
PAH3+H	3.43486e-13	1.000000	3.43550e-13	1.00000
rad60anti	2.53709e-13	1.000000	2.53757e-13	1.00000
rad26	2.46750e-13	1.000000	2.46796e-13	1.00000
rad7	1.47554e-13	1.000000	1.47582e-13	1.00000
rad13	7.85178e-14	1.000000	7.85325e-14	1.00000
PhCCH+CH3	6.54135e-14	1.000000	6.54257e-14	1.00000
rad59	5.40164e-14	1.000000	5.40265e-14	1.00000
rad19anti	3.73379e-14	1.000000	3.73449e-14	1.00000
Ph+MeAc	3.54922e-14	1.000000	3.54988e-14	1.00000
PAH10+CH3	3.15244e-14	1.000000	3.15303e-14	1.00000
rad10	2.51497e-14	1.000000	2.51544e-14	1.00000
PAH1+H	1.86593e-14	1.000000	1.86628e-14	1.00000
rad71	1.83725e-14	1.000000	1.83760e-14	1.00000
rad37	1.77320e-14	1.000000	1.77353e-14	1.00000
rad65	1.68595e-14	1.000000	1.68626e-14	1.00000
rad73	1.52732e-14	1.000000	1.52760e-14	1.00000
PhCCCH3+H	1.15145e-14	1.000000	1.15166e-14	1.00000
rad12	1.01714e-14	1.000000	1.01733e-14	1.00000
rad2	8.58901e-15	1.000000	8.59062e-15	1.00000
rad70	3.45046e-15	1.000000	3.45110e-15	1.00000
rad67	1.76381e-15	1.000000	1.76414e-15	1.00000
rad1	1.34097e-15	1.000000	1.34122e-15	1.00000
rad19syn	1.33202e-15	1.000000	1.33227e-15	1.00000

rad33	1.08576e-15	1.000000	1.08597e-15	1.00000
rad3	1.01865e-15	1.000000	1.01884e-15	1.00000
rad34	8.60108e-16	1.000000	8.60269e-16	1.00000
rad58	8.08078e-16	1.000000	8.08230e-16	1.00000
PhcycC3H3_A+H	7.06552e-16	1.000000	7.06684e-16	1.00000
rad4	6.84008e-16	1.000000	6.84136e-16	1.00000
rad47	6.45152e-16	1.000000	6.45273e-16	1.00000
rad54	5.11944e-16	1.000000	5.12040e-16	1.00000
rad72	4.68621e-16	1.000000	4.68709e-16	1.00000
rad64	3.31744e-16	1.000000	3.31806e-16	1.00000
PAH8+H	1.75743e-16	1.000000	1.75776e-16	1.00000
rad62	1.02998e-16	1.000000	1.03017e-16	1.00000
rad68syn	5.99363e-17	1.000000	5.99476e-17	1.00000
rad61	5.34615e-17	1.000000	5.34715e-17	1.00000
rad68anti	3.90521e-17	1.000000	3.90594e-17	1.00000
rad55	3.83513e-17	1.000000	3.83585e-17	1.00000
rad40syn	2.14964e-17	1.000000	2.15004e-17	1.00000
rad43	1.61008e-17	1.000000	1.61039e-17	1.00000
rad40anti	1.25762e-17	1.000000	1.25785e-17	1.00000
rad56	1.16809e-17	1.000000	1.16831e-17	1.00000
rad53	1.10723e-17	1.000000	1.10744e-17	1.00000
rad42	9.28312e-18	1.000000	9.28486e-18	1.00000
rad14	6.81344e-18	1.000000	6.81472e-18	1.00000
rad5	6.58921e-18	1.000000	6.59045e-18	1.00000
rad27	2.28478e-18	1.000000	2.28521e-18	1.00000
rad41	1.31743e-18	1.000000	1.31768e-18	1.00000
rad31	3.67177e-22	1.000000	3.67246e-22	1.00000

10000000.0 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.22308e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.933815	0.933815	0.936009	0.936009
rad21	0.0498195	0.983634	0.0499365	0.985946
rad18	0.0109013	0.994536	0.0109269	0.996872
Benzyl+C2H2	0.00234336	0.996879	0.000000	0.996872
rad22	0.00229281	0.999172	0.00229820	0.999171
rad45	0.000407846	0.999580	0.000408804	0.999579
Indene+H	0.000254722	0.999835	0.000255320	0.999835
rad11	6.81468e-05	0.999903	6.83069e-05	0.999903
rad24	3.44861e-05	0.999937	3.45671e-05	0.999938
rad23	3.40376e-05	0.999971	3.41175e-05	0.999972
rad36	2.50455e-05	0.999996	2.51043e-05	0.999997
PAH9+H	8.76937e-07	0.999997	8.78997e-07	0.999998
rad6	6.47558e-07	0.999998	6.49079e-07	0.999998
rad38	5.26830e-07	0.999998	5.28068e-07	0.999999
rad50	1.94022e-07	0.999998	1.94478e-07	0.999999
rad46	1.86029e-07	0.999999	1.86466e-07	0.999999
PAH7+H	1.84400e-07	0.999999	1.84833e-07	0.999999
PhCH2CCH+H	1.74434e-07	0.999999	1.74843e-07	1.000000
Ph+Allene	1.43865e-07	0.999999	1.44203e-07	1.000000
rad9	1.34829e-07	0.999999	1.35146e-07	1.000000
rad35	1.23309e-07	0.999999	1.23599e-07	1.000000
PhCHCCH2+H	9.13353e-08	1.000000	9.15498e-08	1.000000
rad39	8.69799e-08	1.000000	8.71842e-08	1.000000
rad51	6.13462e-08	1.000000	6.14903e-08	1.000000
rad30	1.96177e-08	1.000000	1.96638e-08	1.000000
rad52	1.75378e-08	1.000000	1.75790e-08	1.000000
rad28	1.48260e-08	1.000000	1.48608e-08	1.000000
rad15	5.52048e-09	1.000000	5.53345e-09	1.000000
PAH3+H	5.31203e-09	1.000000	5.32450e-09	1.000000
PhCCH+CH3	4.40030e-09	1.000000	4.41063e-09	1.000000
rad19anti	3.71261e-09	1.000000	3.72133e-09	1.000000
PAH10+CH3	3.59831e-09	1.000000	3.60676e-09	1.000000
Ph+MeAc	3.04712e-09	1.000000	3.05428e-09	1.000000
rad71	2.21441e-09	1.000000	2.21961e-09	1.000000
PAH1+H	2.02457e-09	1.000000	2.02932e-09	1.000000
rad26	1.77804e-09	1.000000	1.78222e-09	1.000000
rad73	1.59367e-09	1.000000	1.59741e-09	1.000000
rad37	1.43859e-09	1.000000	1.44197e-09	1.000000
rad65	1.33339e-09	1.000000	1.33652e-09	1.000000
PhCCCH3+H	9.96281e-10	1.000000	9.98621e-10	1.000000
rad7	9.12725e-10	1.000000	9.14869e-10	1.000000
rad25	6.13687e-10	1.000000	6.15128e-10	1.000000
rad59	4.94475e-10	1.000000	4.95636e-10	1.000000
rad60syn	4.52189e-10	1.000000	4.53251e-10	1.000000

rad10	3.46575e-10	1.000000	3.47389e-10	1.00000
rad60anti	2.73880e-10	1.000000	2.74524e-10	1.00000
rad70	2.70573e-10	1.000000	2.71209e-10	1.00000
rad67	2.65604e-10	1.000000	2.66228e-10	1.00000
rad19syn	1.57975e-10	1.000000	1.58346e-10	1.00000
rad2	1.28196e-10	1.000000	1.28497e-10	1.00000
PhcycC3H3_A+H	1.05823e-10	1.000000	1.06071e-10	1.00000
rad8	8.15117e-11	1.000000	8.17032e-11	1.00000
rad34	7.62656e-11	1.000000	7.64448e-11	1.00000
rad72	7.31271e-11	1.000000	7.32989e-11	1.00000
rad54	6.34294e-11	1.000000	6.35784e-11	1.00000
rad58	6.28664e-11	1.000000	6.30141e-11	1.00000
rad13	5.71446e-11	1.000000	5.72788e-11	1.00000
rad47	4.61329e-11	1.000000	4.62412e-11	1.00000
rad64	3.93905e-11	1.000000	3.94830e-11	1.00000
PAH8+H	2.64856e-11	1.000000	2.65478e-11	1.00000
rad1	2.45096e-11	1.000000	2.45672e-11	1.00000
rad62	1.39655e-11	1.000000	1.39983e-11	1.00000
rad61	8.18977e-12	1.000000	8.20900e-12	1.00000
rad3	7.67538e-12	1.000000	7.69341e-12	1.00000
rad68syn	7.37290e-12	1.000000	7.39022e-12	1.00000
rad4	5.37672e-12	1.000000	5.38934e-12	1.00000
rad55	5.02641e-12	1.000000	5.03822e-12	1.00000
rad68anti	4.78521e-12	1.000000	4.79645e-12	1.00000
rad40syn	3.00217e-12	1.000000	3.00922e-12	1.00000
rad43	2.47015e-12	1.000000	2.47595e-12	1.00000
rad56	2.03719e-12	1.000000	2.04198e-12	1.00000
rad40anti	1.81782e-12	1.000000	1.82208e-12	1.00000
rad53	1.77133e-12	1.000000	1.77549e-12	1.00000
rad12	1.64418e-12	1.000000	1.64805e-12	1.00000
rad42	1.42897e-12	1.000000	1.43232e-12	1.00000
rad33	6.68225e-13	1.000000	6.69795e-13	1.00000
rad41	2.33058e-13	1.000000	2.33605e-13	1.00000
rad5	9.89302e-14	1.000000	9.91625e-14	1.00000
rad14	4.70176e-14	1.000000	4.71281e-14	1.00000
rad27	3.24832e-14	1.000000	3.25595e-14	1.00000
rad31	9.92737e-17	1.000000	9.95069e-17	1.00000

10000000.0 Pa, 600.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.36947e-17 (1.00)	1.34095e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.822083	0.822083	0.839564	0.839564
rad21	0.103690	0.925773	0.105895	0.945459
rad18	0.0295279	0.955301	0.0301558	0.975615
Benzyl+C2H2	0.0208214	0.976122	0.00000	0.975615
rad22	0.0153977	0.991520	0.0157251	0.991340
Indene+H	0.00366575	0.995186	0.00374370	0.995084
rad45	0.00283665	0.998022	0.00289697	0.997981
rad11	0.000902371	0.998925	0.000921559	0.998902
rad23	0.000548112	0.999473	0.000559768	0.999462
rad36	0.000200407	0.999673	0.000204668	0.999667
rad24	0.000137997	0.999811	0.000140931	0.999807
PAH9+H	4.60199e-05	0.999857	4.69985e-05	0.999854
rad6	3.93386e-05	0.999897	4.01751e-05	0.999895
rad38	2.56673e-05	0.999922	2.62131e-05	0.999921
rad50	1.04846e-05	0.999933	1.07076e-05	0.999932
PAH7+H	1.00172e-05	0.999943	1.02302e-05	0.999942
PhCH2CCH+H	9.71069e-06	0.999953	9.91718e-06	0.999952
rad46	9.36458e-06	0.999962	9.56371e-06	0.999961
Ph+Allene	8.09519e-06	0.999970	8.26733e-06	0.999970
rad35	6.38482e-06	0.999976	6.52058e-06	0.999976
PhCHCCH2+H	5.32802e-06	0.999982	5.44132e-06	0.999982
rad9	5.28978e-06	0.999987	5.40226e-06	0.999987
rad39	4.82416e-06	0.999992	4.92675e-06	0.999992
rad51	3.42981e-06	0.999995	3.50274e-06	0.999995
rad52	9.62538e-07	0.999996	9.83006e-07	0.999996
rad30	8.23058e-07	0.999997	8.40559e-07	0.999997
rad28	3.89816e-07	0.999997	3.98105e-07	0.999998
PAH3+H	3.13071e-07	0.999998	3.19728e-07	0.999998
PhCCH+CH3	2.56970e-07	0.999998	2.62434e-07	0.999998
rad19anti	2.36328e-07	0.999998	2.41354e-07	0.999998
PAH10+CH3	2.17553e-07	0.999998	2.22179e-07	0.999999
rad15	1.93838e-07	0.999999	1.97960e-07	0.999999
Ph+MeAc	1.80758e-07	0.999999	1.84602e-07	0.999999
PAH1+H	1.21052e-07	0.999999	1.23626e-07	0.999999

rad71	1.19690e-07	0.999999	1.22235e-07	0.999999
rad73	8.63653e-08	0.999999	8.82018e-08	0.999999
rad37	8.30827e-08	0.999999	8.48494e-08	0.999999
rad47	7.94650e-08	0.999999	8.11547e-08	1.000000
rad65	7.77349e-08	0.999999	7.93879e-08	1.000000
PhCCH3+H	5.86582e-08	0.999999	5.99055e-08	1.000000
rad26	5.54494e-08	0.999999	5.66285e-08	1.000000
rad7	4.96407e-08	1.000000	5.06962e-08	1.000000
rad25	4.64110e-08	1.000000	4.73979e-08	1.000000
rad59	2.93926e-08	1.000000	3.00176e-08	1.000000
rad60syn	2.78607e-08	1.000000	2.84531e-08	1.000000
rad67	1.80160e-08	1.000000	1.83991e-08	1.000000
rad60anti	1.68728e-08	1.000000	1.72316e-08	1.000000
rad70	1.57368e-08	1.000000	1.60714e-08	1.000000
rad10	1.13942e-08	1.000000	1.16365e-08	1.000000
rad19syn	1.00517e-08	1.000000	1.02655e-08	1.000000
PhcycC3H3_A+H	6.94958e-09	1.000000	7.09735e-09	1.000000
rad13	5.18794e-09	1.000000	5.29826e-09	1.000000
rad2	4.88865e-09	1.000000	4.99260e-09	1.000000
rad34	4.48838e-09	1.000000	4.58383e-09	1.000000
rad54	4.04454e-09	1.000000	4.13054e-09	1.000000
rad72	3.96770e-09	1.000000	4.05207e-09	1.000000
rad58	3.70372e-09	1.000000	3.78248e-09	1.000000
rad64	2.37874e-09	1.000000	2.42932e-09	1.000000
PAH8+H	1.64419e-09	1.000000	1.67916e-09	1.000000
rad1	1.05074e-09	1.000000	1.07308e-09	1.000000
rad62	8.58819e-10	1.000000	8.77081e-10	1.000000
rad8	7.97798e-10	1.000000	8.14763e-10	1.000000
rad61	5.14635e-10	1.000000	5.25579e-10	1.000000
rad3	4.67825e-10	1.000000	4.77773e-10	1.000000
rad68syn	4.48050e-10	1.000000	4.57577e-10	1.000000
rad4	3.37112e-10	1.000000	3.44281e-10	1.000000
rad55	3.22824e-10	1.000000	3.29689e-10	1.000000
rad68anti	2.90682e-10	1.000000	2.96863e-10	1.000000
rad40syn	1.84928e-10	1.000000	1.88860e-10	1.000000
rad12	1.71978e-10	1.000000	1.75635e-10	1.000000
rad43	1.56880e-10	1.000000	1.60216e-10	1.000000
rad56	1.35943e-10	1.000000	1.38833e-10	1.000000
rad53	1.16817e-10	1.000000	1.19301e-10	1.000000
rad40anti	1.12411e-10	1.000000	1.14801e-10	1.000000
rad42	8.92788e-11	1.000000	9.11772e-11	1.000000
rad33	6.56415e-11	1.000000	6.70373e-11	1.000000
rad41	1.51211e-11	1.000000	1.54427e-11	1.000000
rad5	3.44691e-12	1.000000	3.52021e-12	1.000000
rad14	1.75197e-12	1.000000	1.78923e-12	1.000000
rad27	8.75030e-13	1.000000	8.93637e-13	1.000000
rad31	1.74750e-13	1.000000	1.78466e-13	1.000000

10000000.0 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	7.17134e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.623505	0.623505	0.697517	0.697517
rad21	0.128285	0.751790	0.143513	0.841030
Benzyl+C2H2	0.106108	0.857898	0.000000	0.841030
rad18	0.0498585	0.907756	0.0557769	0.896807
rad22	0.0481427	0.955899	0.0538574	0.950664
Indene+H	0.0231270	0.979026	0.0258722	0.976537
rad45	0.0105016	0.989528	0.0117481	0.988285
rad11	0.00466924	0.994197	0.00522350	0.993508
rad23	0.00276981	0.996967	0.00309859	0.996607
rad36	0.000908653	0.997876	0.00101651	0.997623
rad6	0.000742733	0.998618	0.000830898	0.998454
rad24	0.000400811	0.999019	0.000448388	0.998902
PAH9+H	0.000259055	0.999278	0.000289806	0.999192
rad38	0.000141852	0.999420	0.000158690	0.999351
PhCH2CCH+H	9.90915e-05	0.999519	0.000110854	0.999462
Ph+Allene	7.48644e-05	0.999594	8.37511e-05	0.999546
rad9	5.93428e-05	0.999653	6.63870e-05	0.999612
rad50	5.90267e-05	0.999712	6.60333e-05	0.999678
PhCHCCH2+H	5.86976e-05	0.999771	6.56651e-05	0.999744
PAH7+H	5.66987e-05	0.999828	6.34290e-05	0.999807
rad46	5.21323e-05	0.999880	5.83206e-05	0.999865
rad35	3.59361e-05	0.999916	4.02018e-05	0.999906
rad39	2.72931e-05	0.999943	3.05328e-05	0.999936
rad51	1.94013e-05	0.999962	2.17043e-05	0.999958

rad30	1.07491e-05	0.999973	1.20251e-05	0.999970
rad52	5.42399e-06	0.999979	6.06784e-06	0.999976
PAH3+H	2.40894e-06	0.999981	2.69488e-06	0.999979
rad28	2.29351e-06	0.999983	2.56575e-06	0.999981
rad19anti	2.11920e-06	0.999985	2.37076e-06	0.999984
rad15	1.84689e-06	0.999987	2.06613e-06	0.999986
rad47	1.81780e-06	0.999989	2.03357e-06	0.999988
PhCCH+CH3	1.66992e-06	0.999991	1.86814e-06	0.999990
rad7	1.38958e-06	0.999992	1.55453e-06	0.999991
PAH10+CH3	1.26794e-06	0.999993	1.41844e-06	0.999993
Ph+MeAc	1.17115e-06	0.999995	1.31017e-06	0.999994
rad25	7.05389e-07	0.999995	7.89121e-07	0.999995
PAH1+H	6.98566e-07	0.999996	7.81488e-07	0.999995
rad71	6.20001e-07	0.999997	6.93597e-07	0.999996
rad37	4.77563e-07	0.999997	5.34251e-07	0.999997
rad73	4.48985e-07	0.999998	5.02281e-07	0.999997
rad65	4.47514e-07	0.999998	5.00636e-07	0.999998
PhCCCH3+H	3.74968e-07	0.999998	4.19477e-07	0.999998
rad60syn	3.25419e-07	0.999999	3.64047e-07	0.999998
rad26	2.73751e-07	0.999999	3.06246e-07	0.999999
rad59	2.49037e-07	0.999999	2.78598e-07	0.999999
rad60anti	1.91245e-07	0.999999	2.13947e-07	0.999999
rad67	1.51322e-07	1.000000	1.69285e-07	0.999999
rad13	1.35574e-07	1.000000	1.51667e-07	1.000000
rad70	9.13885e-08	1.000000	1.02237e-07	1.000000
rad19syn	6.51061e-08	1.000000	7.28344e-08	1.000000
rad10	5.31008e-08	1.000000	5.94040e-08	1.000000
PhcycC3H3_A+H	4.58174e-08	1.000000	5.12561e-08	1.000000
rad2	3.96439e-08	1.000000	4.43498e-08	1.000000
rad54	2.64007e-08	1.000000	2.95346e-08	1.000000
rad34	2.59725e-08	1.000000	2.90555e-08	1.000000
rad58	2.26417e-08	1.000000	2.53294e-08	1.000000
rad72	2.06378e-08	1.000000	2.30875e-08	1.000000
rad64	1.37635e-08	1.000000	1.53972e-08	1.000000
PAH8+H	9.59084e-09	1.000000	1.07293e-08	1.000000
rad1	9.22445e-09	1.000000	1.03194e-08	1.000000
rad12	8.90014e-09	1.000000	9.95661e-09	1.000000
rad8	7.95666e-09	1.000000	8.90114e-09	1.000000
rad3	6.80116e-09	1.000000	7.60847e-09	1.000000
rad4	5.14280e-09	1.000000	5.75326e-09	1.000000
rad62	5.02140e-09	1.000000	5.61745e-09	1.000000
rad61	3.04138e-09	1.000000	3.40240e-09	1.000000
rad68syn	2.59732e-09	1.000000	2.90563e-09	1.000000
rad33	2.32213e-09	1.000000	2.59777e-09	1.000000
rad55	2.10856e-09	1.000000	2.35885e-09	1.000000
rad68anti	1.68492e-09	1.000000	1.88493e-09	1.000000
rad40syn	1.07639e-09	1.000000	1.20416e-09	1.000000
rad43	9.58868e-10	1.000000	1.07269e-09	1.000000
rad56	8.95927e-10	1.000000	1.00228e-09	1.000000
rad53	7.67169e-10	1.000000	8.58234e-10	1.000000
rad40anti	6.55282e-10	1.000000	7.33066e-10	1.000000
rad42	5.24658e-10	1.000000	5.86936e-10	1.000000
rad41	9.30840e-11	1.000000	1.04133e-10	1.000000
rad5	2.80553e-11	1.000000	3.13855e-11	1.000000
rad31	2.00063e-11	1.000000	2.23811e-11	1.000000
rad14	1.90235e-11	1.000000	2.12816e-11	1.000000
rad27	4.62870e-12	1.000000	5.17815e-12	1.000000

10000000.0 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.12228e-16 (1.00)	2.31971e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.441379	0.441379	0.594088	0.594088
Benzyl+C2H2	0.257047	0.698426	0.000000	0.594088
rad21	0.103285	0.801711	0.139020	0.733108
rad22	0.0580401	0.859751	0.0781209	0.811229
Indene+H	0.0573672	0.917118	0.0772151	0.888444
rad18	0.0423219	0.959440	0.0569644	0.945408
rad45	0.0179051	0.977345	0.0241000	0.969508
rad11	0.00762242	0.984968	0.0102596	0.979768
rad23	0.00572426	0.990692	0.00770474	0.987473
rad6	0.00364568	0.994338	0.00490702	0.992380
rad36	0.00187459	0.996212	0.00252316	0.994903
rad24	0.000661843	0.996874	0.000890828	0.995794
PhCH2CCH+H	0.000637881	0.997512	0.000858575	0.996652
PAH9+H	0.000481486	0.997993	0.000648071	0.997300

Ph+Allene	0.000471452	0.998465	0.000634565	0.997935
PhCHCCH2+H	0.000404484	0.998869	0.000544428	0.998479
rad38	0.000260493	0.999130	0.000350618	0.998830
rad9	0.000257588	0.999387	0.000346708	0.999177
rad50	0.000110458	0.999498	0.000148674	0.999325
PAH7+H	0.000109460	0.999607	0.000147331	0.999473
rad46	9.63819e-05	0.999704	0.000129728	0.999602
rad35	6.74013e-05	0.999771	9.07209e-05	0.999693
rad39	5.14472e-05	0.999823	6.92469e-05	0.999762
rad30	4.73366e-05	0.999870	6.37142e-05	0.999826
rad51	3.65179e-05	0.999906	4.91523e-05	0.999875
rad7	1.30531e-05	0.999920	1.75693e-05	0.999893
rad19anti	1.23303e-05	0.999932	1.65964e-05	0.999909
PAH3+H	1.06485e-05	0.999943	1.43327e-05	0.999924
rad52	1.01666e-05	0.999953	1.36840e-05	0.999937
rad28	7.65284e-06	0.999960	1.03006e-05	0.999948
PhCCH+CH3	5.84406e-06	0.999966	7.86599e-06	0.999956
rad47	5.25899e-06	0.999971	7.07851e-06	0.999963
rad15	4.53341e-06	0.999976	6.10189e-06	0.999969
Ph+MeAc	4.06521e-06	0.999980	5.47170e-06	0.999974
PAH10+CH3	2.51799e-06	0.999983	3.38917e-06	0.999978
rad25	2.39479e-06	0.999985	3.22335e-06	0.999981
rad60syn	1.72712e-06	0.999987	2.32466e-06	0.999983
PAH1+H	1.33755e-06	0.999988	1.80032e-06	0.999985
PhCCCH3+H	1.24182e-06	0.999989	1.67146e-06	0.999987
rad59	1.20292e-06	0.999990	1.61911e-06	0.999988
rad71	1.15714e-06	0.999992	1.55749e-06	0.999990
rad13	1.01984e-06	0.999993	1.37268e-06	0.999991
rad60anti	1.01446e-06	0.999994	1.36544e-06	0.999993
rad37	9.40915e-07	0.999995	1.26645e-06	0.999994
rad67	8.99293e-07	0.999995	1.21043e-06	0.999995
rad65	8.51202e-07	0.999996	1.14570e-06	0.999996
rad73	8.34030e-07	0.999997	1.12259e-06	0.999997
rad26	6.36185e-07	0.999998	8.56293e-07	0.999998
rad70	2.10275e-07	0.999998	2.83027e-07	0.999998
rad12	1.90124e-07	0.999998	2.55904e-07	0.999999
rad19syn	1.76006e-07	0.999998	2.36901e-07	0.999999
rad2	1.58458e-07	0.999999	2.13281e-07	0.999999
PhcycC3H3_A+H	1.20451e-07	0.999999	1.62124e-07	0.999999
rad10	1.10630e-07	0.999999	1.48906e-07	1.000000
rad8	9.23678e-08	0.999999	1.24325e-07	1.000000
rad54	7.21908e-08	0.999999	9.71675e-08	1.000000
rad58	6.52956e-08	0.999999	8.78866e-08	1.000000
rad34	5.65826e-08	0.999999	7.61591e-08	1.000000
rad3	4.61305e-08	0.999999	6.20908e-08	1.000000
rad1	4.26697e-08	0.999999	5.74326e-08	1.000000
rad72	3.89870e-08	0.999999	5.24758e-08	1.000000
rad4	3.69787e-08	0.999999	4.97726e-08	1.000000
rad33	3.41031e-08	0.999999	4.59021e-08	1.000000
rad64	2.63731e-08	0.999999	3.54977e-08	1.000000
PAH8+H	1.89006e-08	0.999999	2.54399e-08	1.000000
rad62	9.94436e-09	0.999999	1.33849e-08	1.000000
rad61	6.09953e-09	0.999999	8.20985e-09	1.000000
rad55	5.66187e-09	0.999999	7.62077e-09	1.000000
rad68syn	5.20448e-09	0.999999	7.00513e-09	1.000000
rad68anti	3.37807e-09	0.999999	4.54682e-09	1.000000
rad43	2.32994e-09	0.999999	3.13605e-09	1.000000
rad56	2.27578e-09	0.999999	3.06316e-09	1.000000
rad40syn	2.13446e-09	0.999999	2.87295e-09	1.000000
rad53	1.97114e-09	0.999999	2.65311e-09	1.000000
rad40anti	1.29873e-09	0.999999	1.74806e-09	1.000000
rad42	1.03812e-09	0.999999	1.39729e-09	1.000000
rad31	2.28659e-10	0.999999	3.07771e-10	1.000000
rad41	2.26050e-10	0.999999	3.04260e-10	1.000000
rad14	1.45859e-10	0.999999	1.96324e-10	1.000000
rad5	1.01205e-10	0.999999	1.36220e-10	1.000000
rad27	2.00170e-11	0.999999	2.69424e-11	1.000000

10000000.0 Pa, 900.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	9.21769e-16	(1.00)	5.56007e-16	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.396804	0.396804	0.00000	0.00000
rad20	0.333423	0.730227	0.552760	0.552760
Indene+H	0.0815834	0.811810	0.135252	0.688012
rad21	0.0747514	0.886562	0.123925	0.811937

rad22	0.0390317	0.925593	0.0647081	0.876645
rad18	0.0236953	0.949289	0.0392829	0.915928
rad45	0.0204403	0.969729	0.0338867	0.949815
rad6	0.00675983	0.976489	0.0112067	0.961021
rad23	0.00675785	0.983247	0.0112034	0.972225
rad11	0.00575098	0.988998	0.00953417	0.981759
PhCH2CCH+H	0.00247337	0.991471	0.00410044	0.985859
rad36	0.00215873	0.993630	0.00357882	0.989438
Ph+Allene	0.00176620	0.995396	0.00292807	0.992366
PhCHCCH2+H	0.00134226	0.996738	0.00222524	0.994592
rad9	0.000824669	0.997563	0.00136717	0.995959
rad24	0.000631903	0.998195	0.00104759	0.997006
PAH9+H	0.000575304	0.998770	0.000953759	0.997960
rad38	0.000304159	0.999074	0.000504245	0.998464
PAH7+H	0.000154111	0.999228	0.000255491	0.998720
rad50	0.000131726	0.999360	0.000218380	0.998938
rad46	0.000113650	0.999474	0.000188414	0.999127
rad30	0.000108105	0.999582	0.000179220	0.999306
rad35	8.30092e-05	0.999665	0.000137615	0.999443
rad39	6.33526e-05	0.999728	0.000105028	0.999548
rad51	4.35505e-05	0.999772	7.21996e-05	0.999621
PAH3+H	3.90948e-05	0.999811	6.48128e-05	0.999685
rad7	3.69118e-05	0.999848	6.11937e-05	0.999747
rad19anti	3.30500e-05	0.999881	5.47914e-05	0.999801
PhCCH+CH3	2.38943e-05	0.999905	3.96128e-05	0.999841
rad28	1.62916e-05	0.999921	2.70087e-05	0.999868
rad52	1.20838e-05	0.999933	2.00329e-05	0.999888
Ph+MeAc	1.11058e-05	0.999944	1.84116e-05	0.999907
rad47	6.77604e-06	0.999951	1.12336e-05	0.999918
rad15	5.47949e-06	0.999957	9.08410e-06	0.999927
rad60syn	5.34495e-06	0.999962	8.86105e-06	0.999936
rad59	4.31343e-06	0.999966	7.15096e-06	0.999943
rad13	3.92669e-06	0.999970	6.50981e-06	0.999949
rad25	3.81348e-06	0.999974	6.32211e-06	0.999956
PAH10+CH3	3.46676e-06	0.999977	5.74732e-06	0.999961
rad60anti	3.19417e-06	0.999981	5.29541e-06	0.999967
PhCCCH3+H	2.87369e-06	0.999983	4.76410e-06	0.999971
rad67	2.49638e-06	0.999986	4.13859e-06	0.999976
rad12	2.38377e-06	0.999988	3.95189e-06	0.999980
PAH1+H	1.75250e-06	0.999990	2.90536e-06	0.999982
rad71	1.41860e-06	0.999992	2.35181e-06	0.999985
rad37	1.31404e-06	0.999993	2.17846e-06	0.999987
rad26	1.12767e-06	0.999994	1.86950e-06	0.999989
rad65	1.03134e-06	0.999995	1.70979e-06	0.999991
rad73	1.01640e-06	0.999996	1.68503e-06	0.999992
rad8	8.60520e-07	0.999997	1.42660e-06	0.999994
rad19syn	6.63590e-07	0.999998	1.10012e-06	0.999995
rad70	5.20440e-07	0.999998	8.62803e-07	0.999996
PhcycC3H3_A+H	4.01428e-07	0.999998	6.65502e-07	0.999996
rad2	3.86757e-07	0.999999	6.41179e-07	0.999997
rad33	2.75549e-07	0.999999	4.56815e-07	0.999997
rad54	2.70484e-07	0.999999	4.48417e-07	0.999998
rad58	2.37895e-07	1.000000	3.94390e-07	0.999998
rad3	2.01076e-07	1.000000	3.33351e-07	0.999999
rad10	1.95838e-07	1.000000	3.24666e-07	0.999999
rad4	1.65636e-07	1.000000	2.74597e-07	0.999999
rad34	1.30362e-07	1.000000	2.16119e-07	0.999999
rad1	1.19935e-07	1.000000	1.98833e-07	1.000000
rad72	4.83208e-08	1.000000	8.01079e-08	1.000000
rad64	3.43141e-08	1.000000	5.68871e-08	1.000000
PAH8+H	3.16298e-08	1.000000	5.24369e-08	1.000000
rad55	2.04219e-08	1.000000	3.38561e-08	1.000000
rad62	1.48751e-08	1.000000	2.46604e-08	1.000000
rad68syn	9.75564e-09	1.000000	1.61732e-08	1.000000
rad61	8.34534e-09	1.000000	1.38352e-08	1.000000
rad56	6.71607e-09	1.000000	1.11341e-08	1.000000
rad68anti	6.34718e-09	1.000000	1.05226e-08	1.000000
rad53	6.17821e-09	1.000000	1.02424e-08	1.000000
rad43	4.15152e-09	1.000000	6.88254e-09	1.000000
rad40syn	3.72326e-09	1.000000	6.17256e-09	1.000000
rad40anti	2.22680e-09	1.000000	3.69167e-09	1.000000
rad42	1.51016e-09	1.000000	2.50360e-09	1.000000
rad31	1.08701e-09	1.000000	1.80208e-09	1.000000
rad14	8.43481e-10	1.000000	1.39835e-09	1.000000
rad41	4.00264e-10	1.000000	6.63572e-10	1.000000
rad5	2.09516e-10	1.000000	3.47343e-10	1.000000
rad27	9.06409e-11	1.000000	1.50268e-10	1.000000

10000000.0 Pa, 1000.00000 K

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Rate constant	True (fraction)		Effective (fraction)	
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Total	2.23691e-15	(1.00)	1.07412e-15	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
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Benzyl+C2H2	0.519820	0.519820	0.00000	0.00000
rad20	0.251306	0.771126	0.523359	0.523359
Indene+H	0.0881225	0.859248	0.183520	0.706879
rad21	0.0503969	0.909645	0.104954	0.811833
rad45	0.0205177	0.930163	0.0427293	0.854562
rad22	0.0204567	0.950620	0.0426022	0.897165
rad18	0.0128486	0.963468	0.0267579	0.923922
rad6	0.00693106	0.970399	0.0144343	0.938357
PhCH2CCH+H	0.00638299	0.976782	0.0132929	0.951650
rad23	0.00595928	0.982742	0.0124105	0.964060
Ph+Allene	0.00418143	0.986923	0.00870805	0.972768
rad11	0.00338827	0.990311	0.00705624	0.979824
PhCHCCH2+H	0.00270851	0.993020	0.00564062	0.985465
rad36	0.00209471	0.995115	0.00436235	0.989827
rad9	0.00209145	0.997206	0.00435555	0.994183
PAH9+H	0.000621620	0.997828	0.00129456	0.995477
rad24	0.000490027	0.998318	0.00102051	0.996498
rad38	0.000315408	0.998633	0.000656853	0.997155
PAH7+H	0.000226123	0.998859	0.000470913	0.997626
rad30	0.000184066	0.999043	0.000383327	0.998009
rad50	0.000138229	0.999182	0.000287870	0.998297
PAH3+H	0.000119919	0.999301	0.000249737	0.998547
rad46	0.000118554	0.999420	0.000246896	0.998794
rad35	9.58771e-05	0.999516	0.000199669	0.998993
PhCCH+CH3	7.50034e-05	0.999591	0.000156199	0.999149
rad39	7.21629e-05	0.999663	0.000150283	0.999300
rad19anti	6.12202e-05	0.999724	0.000127494	0.999427
rad7	5.23905e-05	0.999777	0.000109106	0.999536
rad51	4.56440e-05	0.999822	9.50560e-05	0.999631
Ph+MeAc	2.55774e-05	0.999848	5.32664e-05	0.999685
rad28	2.12605e-05	0.999869	4.42761e-05	0.999729
rad12	1.27518e-05	0.999882	2.65563e-05	0.999755
rad52	1.26436e-05	0.999895	2.63309e-05	0.999782
rad60syn	1.25680e-05	0.999907	2.61736e-05	0.999808
rad59	1.23685e-05	0.999920	2.57581e-05	0.999834
rad13	1.17339e-05	0.999931	2.44364e-05	0.999858
rad60anti	7.66592e-06	0.999939	1.59647e-05	0.999874
rad47	6.95269e-06	0.999946	1.44793e-05	0.999889
rad15	6.18331e-06	0.999952	1.28771e-05	0.999902
PhCCCH3+H	5.38433e-06	0.999957	1.12132e-05	0.999913
rad8	5.23797e-06	0.999963	1.09084e-05	0.999924
rad25	4.97084e-06	0.999968	1.03520e-05	0.999934
PAH10+CH3	4.83617e-06	0.999972	1.00716e-05	0.999944
rad67	4.77940e-06	0.999977	9.95335e-06	0.999954
rad19syn	3.01678e-06	0.999980	6.28260e-06	0.999960
PAH1+H	2.46623e-06	0.999983	5.13605e-06	0.999965
PhcycC3H3_A+H	1.89814e-06	0.999985	3.95298e-06	0.999969
rad37	1.86178e-06	0.999987	3.87725e-06	0.999973
rad71	1.52177e-06	0.999988	3.16918e-06	0.999976
rad26	1.47651e-06	0.999989	3.07492e-06	0.999979
rad70	1.36071e-06	0.999991	2.83375e-06	0.999982
rad33	1.27887e-06	0.999992	2.66332e-06	0.999985
rad54	1.19105e-06	0.999993	2.48043e-06	0.999987
rad65	1.11536e-06	0.999994	2.32279e-06	0.999990
rad73	1.08611e-06	0.999996	2.26189e-06	0.999992
rad58	9.57133e-07	0.999996	1.99328e-06	0.999994
rad2	7.43608e-07	0.999997	1.54860e-06	0.999996
rad3	4.89503e-07	0.999998	1.01942e-06	0.999997
rad4	4.00214e-07	0.999998	8.33468e-07	0.999997
rad34	3.53198e-07	0.999998	7.35554e-07	0.999998
rad10	3.00319e-07	0.999999	6.25430e-07	0.999999
rad1	2.31204e-07	0.999999	4.81496e-07	0.999999
rad55	9.19951e-08	0.999999	1.91585e-07	0.999999
PAH8+H	8.91287e-08	0.999999	1.85615e-07	1.000000
rad72	5.21686e-08	0.999999	1.08644e-07	1.000000
rad64	4.78430e-08	0.999999	9.96357e-08	1.000000
rad56	3.32024e-08	0.999999	6.91457e-08	1.000000
rad53	2.98163e-08	0.999999	6.20940e-08	1.000000
rad68syn	2.78074e-08	0.999999	5.79103e-08	1.000000
rad62	2.71263e-08	0.999999	5.64919e-08	1.000000
rad68anti	1.80893e-08	0.999999	3.76719e-08	1.000000
rad61	1.14998e-08	0.999999	2.39490e-08	1.000000
rad40syn	1.05311e-08	0.999999	2.19317e-08	1.000000
rad43	6.88337e-09	0.999999	1.43350e-08	1.000000

rad40anti	6.25829e-09	0.999999	1.30332e-08	1.00000
rad14	3.88407e-09	0.999999	8.08877e-09	1.00000
rad31	3.07353e-09	0.999999	6.40078e-09	1.00000
rad42	2.66959e-09	0.999999	5.55957e-09	1.00000
rad41	6.59898e-10	0.999999	1.37427e-09	1.00000
rad27	4.86219e-10	0.999999	1.01258e-09	1.00000
rad5	3.47494e-10	0.999999	7.23674e-10	1.00000

10000000.0 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	1.73166e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.631441	0.631441	0.00000	0.00000
rad20	0.168045	0.799486	0.455952	0.455952
Indene+H	0.0857625	0.885248	0.232697	0.688649
rad21	0.0322015	0.917450	0.0873713	0.776020
rad45	0.0197424	0.937192	0.0535664	0.829587
PhCH2CCH+H	0.0115053	0.948698	0.0312170	0.860804
rad22	0.0106419	0.959340	0.0288743	0.889678
rad18	0.00873782	0.968077	0.0237081	0.913386
Ph+Allene	0.00662932	0.974707	0.0179871	0.931373
rad6	0.00525607	0.979963	0.0142611	0.945624
rad23	0.00481167	0.984774	0.0130554	0.958690
PhCHCCH2+H	0.00387088	0.988645	0.0105027	0.969192
rad9	0.00359238	0.992238	0.00974708	0.978939
rad11	0.00244145	0.994679	0.00662431	0.985564
rad36	0.00197443	0.996654	0.00535715	0.990921
PAH9+H	0.000659673	0.997313	0.00178987	0.992711
rad24	0.000445135	0.997758	0.00120777	0.993919
rad38	0.000320089	0.998079	0.000868488	0.994787
PAH7+H	0.000302350	0.998381	0.000820356	0.995607
PAH3+H	0.000268564	0.998649	0.000728686	0.996336
rad30	0.000265273	0.998915	0.000719757	0.997056
rad50	0.000140986	0.999056	0.000382534	0.997438
PhCCH+CH3	0.000136373	0.999192	0.000370017	0.997808
rad46	0.000120582	0.999313	0.000327172	0.998136
rad35	0.000111754	0.999424	0.000303220	0.998439
rad19anti	8.94647e-05	0.999514	0.000242742	0.998682
rad39	8.01230e-05	0.999594	0.000217395	0.998899
rad7	6.20945e-05	0.999656	0.000168479	0.999067
rad51	4.65403e-05	0.999703	0.000126276	0.999194
Ph+MeAc	4.24555e-05	0.999745	0.000115193	0.999309
rad12	2.85502e-05	0.999774	7.74645e-05	0.999386
rad13	2.79001e-05	0.999802	7.57005e-05	0.999462
rad59	2.63171e-05	0.999828	7.14054e-05	0.999533
rad60syn	2.32252e-05	0.999851	6.30162e-05	0.999596
rad28	1.98503e-05	0.999871	5.38592e-05	0.999650
rad8	1.97004e-05	0.999891	5.34524e-05	0.999704
rad60anti	1.43791e-05	0.999905	3.90142e-05	0.999743
rad52	1.28822e-05	0.999918	3.49529e-05	0.999778
rad15	8.40418e-06	0.999926	2.28028e-05	0.999801
PhCCCH3+H	8.05416e-06	0.999934	2.18531e-05	0.999822
rad67	7.30530e-06	0.999942	1.98212e-05	0.999842
rad19syn	7.10917e-06	0.999949	1.92891e-05	0.999862
rad47	6.72579e-06	0.999955	1.82489e-05	0.999880
rad25	6.45882e-06	0.999962	1.75245e-05	0.999897
PAH10+CH3	6.44441e-06	0.999968	1.74854e-05	0.999915
PhcycC3H3_A+H	4.72363e-06	0.999973	1.28165e-05	0.999928
PAH1+H	3.42721e-06	0.999977	9.29896e-06	0.999937
rad33	3.39676e-06	0.999980	9.21631e-06	0.999946
rad54	2.62720e-06	0.999983	7.12829e-06	0.999953
rad58	2.59612e-06	0.999985	7.04396e-06	0.999960
rad37	2.45930e-06	0.999988	6.67274e-06	0.999967
rad70	2.35095e-06	0.999990	6.37877e-06	0.999973
rad71	1.57858e-06	0.999992	4.28310e-06	0.999978
rad26	1.50419e-06	0.999993	4.08126e-06	0.999982
rad65	1.18679e-06	0.999994	3.22009e-06	0.999985
rad73	1.12371e-06	0.999995	3.04892e-06	0.999988
rad2	1.07300e-06	0.999996	2.91133e-06	0.999991
rad3	6.90108e-07	0.999997	1.87245e-06	0.999993
rad34	6.34163e-07	0.999998	1.72065e-06	0.999994
rad4	5.57805e-07	0.999998	1.51347e-06	0.999996
rad10	4.36282e-07	0.999999	1.18375e-06	0.999997
rad1	3.22468e-07	0.999999	8.74942e-07	0.999998
rad55	2.06827e-07	0.999999	5.61177e-07	0.999999
PAH8+H	1.84558e-07	0.999999	5.00756e-07	0.999999

rad56	8.20647e-08	1.000000	2.22664e-07	0.999999
rad53	7.16542e-08	1.000000	1.94417e-07	1.000000
rad64	6.65305e-08	1.000000	1.80515e-07	1.000000
rad68syn	5.48763e-08	1.000000	1.48894e-07	1.000000
rad72	5.43331e-08	1.000000	1.47420e-07	1.000000
rad62	4.39995e-08	1.000000	1.19382e-07	1.000000
rad68anti	3.56614e-08	1.000000	9.67589e-08	1.000000
rad40syn	2.13856e-08	1.000000	5.80248e-08	1.000000
rad61	1.54062e-08	1.000000	4.18011e-08	1.000000
rad14	1.38088e-08	1.000000	3.74669e-08	1.000000
rad40anti	1.27835e-08	1.000000	3.46852e-08	1.000000
rad43	9.73245e-09	1.000000	2.64067e-08	1.000000
rad31	5.01142e-09	1.000000	1.35973e-08	1.000000
rad42	4.33831e-09	1.000000	1.17710e-08	1.000000
rad27	2.42757e-09	1.000000	6.58664e-09	1.000000
rad41	9.32194e-10	1.000000	2.52929e-09	1.000000
rad5	4.63037e-10	1.000000	1.25635e-09	1.000000

10000000.0 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.84330e-15 (1.00)	2.65875e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.699349	0.699349	0.000000	0.000000
rad20	0.113743	0.813092	0.378322	0.378322
Indene+H	0.0818069	0.894899	0.272099	0.650421
rad21	0.0246576	0.919556	0.0820142	0.732435
rad45	0.0186674	0.938224	0.0620899	0.794525
PhCH2CCH+H	0.0150276	0.953252	0.0499834	0.844508
Ph+Allene	0.00794228	0.961194	0.0264169	0.870925
rad18	0.00764751	0.968841	0.0254365	0.896362
rad22	0.00658641	0.975428	0.0219072	0.918269
rad9	0.00445176	0.979879	0.0148071	0.933076
PhCHCCH2+H	0.00438975	0.984269	0.0146008	0.947677
rad23	0.00396623	0.988235	0.0131921	0.960869
rad6	0.00361813	0.991854	0.0120343	0.972903
rad11	0.00245160	0.994305	0.00815432	0.981058
rad36	0.00184880	0.996154	0.00614933	0.987207
PAH9+H	0.000682064	0.996836	0.00226862	0.989476
rad24	0.000438854	0.997275	0.00145968	0.990935
PAH3+H	0.000428609	0.997703	0.00142560	0.992361
PAH7+H	0.000342709	0.998046	0.00113989	0.993501
rad30	0.000331889	0.998378	0.00110390	0.994605
rad38	0.000320934	0.998699	0.00106746	0.995672
PhCCH+CH3	0.000171926	0.998871	0.000571847	0.996244
rad50	0.000141620	0.999013	0.000471045	0.996715
rad35	0.000125574	0.999138	0.000417672	0.997133
rad46	0.000120959	0.999259	0.000402323	0.997535
rad19anti	0.000105698	0.999365	0.000351562	0.997887
rad39	8.41491e-05	0.999449	0.000279889	0.998167
rad7	8.29084e-05	0.999532	0.000275763	0.998442
Ph+MeAc	5.25857e-05	0.999584	0.000174906	0.998617
rad13	5.10287e-05	0.999635	0.000169727	0.998787
rad8	4.68481e-05	0.999682	0.000155822	0.998943
rad51	4.67691e-05	0.999729	0.000155559	0.999098
rad59	4.08937e-05	0.999770	0.000136017	0.999234
rad12	3.86355e-05	0.999809	0.000128506	0.999363
rad60syn	3.35340e-05	0.999842	0.000111538	0.999474
rad60anti	2.09284e-05	0.999863	6.96104e-05	0.999544
rad28	1.64226e-05	0.999880	5.46236e-05	0.999599
rad15	1.42409e-05	0.999894	4.73668e-05	0.999646
rad52	1.29408e-05	0.999907	4.30424e-05	0.999689
rad19syn	1.03405e-05	0.999917	3.43937e-05	0.999723
PhCCCH3+H	9.59053e-06	0.999927	3.18992e-05	0.999755
rad25	9.10331e-06	0.999936	3.02787e-05	0.999786
rad67	8.94127e-06	0.999945	2.97397e-05	0.999815
PAH10+CH3	7.41623e-06	0.999952	2.46672e-05	0.999840
PhcycC3H3_A+H	7.14497e-06	0.999959	2.37650e-05	0.999864
rad47	6.36280e-06	0.999966	2.11634e-05	0.999885
rad33	5.85168e-06	0.999971	1.94634e-05	0.999904
rad58	4.54207e-06	0.999976	1.51074e-05	0.999919
PAH1+H	4.07319e-06	0.999980	1.35479e-05	0.999933
rad54	3.64504e-06	0.999984	1.21238e-05	0.999945
rad70	2.82126e-06	0.999987	9.38384e-06	0.999955
rad37	2.79337e-06	0.999989	9.29105e-06	0.999964
rad71	1.60794e-06	0.999991	5.34820e-06	0.999969
rad26	1.41342e-06	0.999992	4.70119e-06	0.999974

rad65	1.23263e-06	0.999994	4.09987e-06	0.999978
rad2	1.19978e-06	0.999995	3.99061e-06	0.999982
rad73	1.14232e-06	0.999996	3.79949e-06	0.999986
rad34	7.74664e-07	0.999997	2.57662e-06	0.999988
rad10	7.49080e-07	0.999997	2.49153e-06	0.999991
rad3	7.15721e-07	0.999998	2.38057e-06	0.999993
rad4	5.74543e-07	0.999999	1.91100e-06	0.999995
rad1	3.52750e-07	0.999999	1.17329e-06	0.999996
rad55	2.90033e-07	0.999999	9.64682e-07	0.999997
PAH8+H	2.42467e-07	1.000000	8.06473e-07	0.999998
rad56	1.21452e-07	1.000000	4.03963e-07	0.999998
rad53	1.04352e-07	1.000000	3.47086e-07	0.999999
rad64	7.94200e-08	1.000000	2.64160e-07	0.999999
rad68syn	7.01898e-08	1.000000	2.33459e-07	0.999999
rad72	5.55052e-08	1.000000	1.84617e-07	1.000000
rad62	5.36947e-08	1.000000	1.78595e-07	1.000000
rad68anti	4.55884e-08	1.000000	1.51632e-07	1.000000
rad14	3.75632e-08	1.000000	1.24940e-07	1.000000
rad40syn	2.77946e-08	1.000000	9.24482e-08	1.000000
rad61	1.79055e-08	1.000000	5.95559e-08	1.000000
rad40anti	1.66779e-08	1.000000	5.54727e-08	1.000000
rad43	1.10572e-08	1.000000	3.67776e-08	1.000000
rad27	7.69670e-09	1.000000	2.56001e-08	1.000000
rad31	5.75510e-09	1.000000	1.91421e-08	1.000000
rad42	5.33232e-09	1.000000	1.77359e-08	1.000000
rad41	1.05986e-09	1.000000	3.52520e-09	1.000000
rad5	5.67933e-10	1.000000	1.88901e-09	1.000000

10000000.0 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.52810e-14 (1.00)	4.10864e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.731127	0.731127	0.00000	0.00000
rad20	0.0877399	0.818867	0.326325	0.326325
Indene+H	0.0796144	0.898481	0.296104	0.622429
rad21	0.0223381	0.920819	0.0830805	0.705509
rad45	0.0179037	0.938723	0.0665878	0.772097
PhCH2CCH+H	0.0163004	0.955023	0.0606247	0.832722
Ph+Allene	0.00836593	0.963389	0.0311148	0.863837
rad18	0.00734953	0.970739	0.0273346	0.891171
rad22	0.00505578	0.975795	0.0188036	0.909975
rad9	0.00472515	0.980520	0.0175739	0.927549
PhCHCCH2+H	0.00449448	0.985014	0.0167160	0.944265
rad23	0.00338002	0.988394	0.0125711	0.956836
rad11	0.00298288	0.991377	0.0110940	0.967930
rad6	0.00257749	0.993955	0.00958627	0.977516
rad36	0.00176515	0.995720	0.00656498	0.984081
PAH9+H	0.000708748	0.996429	0.00263600	0.986717
PAH3+H	0.000575095	0.997004	0.00213891	0.988856
rad24	0.000431987	0.997436	0.00160666	0.990463
rad30	0.000386140	0.997822	0.00143614	0.991899
PAH7+H	0.000358582	0.998180	0.00133365	0.993233
rad38	0.000325816	0.998506	0.00121178	0.994444
PhCCH+CH3	0.000183934	0.998690	0.000684093	0.995128
rad50	0.000143832	0.998834	0.000534946	0.995663
rad35	0.000138678	0.998973	0.000515774	0.996179
rad7	0.000128604	0.999101	0.000478309	0.996658
rad46	0.000122771	0.999224	0.000456613	0.997114
rad19anti	0.000113101	0.999337	0.000420648	0.997535
rad39	8.65033e-05	0.999424	0.000321725	0.997856
rad13	7.36974e-05	0.999497	0.000274097	0.998131
rad8	7.10000e-05	0.999568	0.000264065	0.998395
Ph+MeAc	5.65103e-05	0.999625	0.000210175	0.998605
rad59	5.40203e-05	0.999679	0.000200914	0.998806
rad51	4.75328e-05	0.999726	0.000176785	0.998983
rad60syn	4.24735e-05	0.999769	0.000157969	0.999141
rad12	4.22768e-05	0.999811	0.000157237	0.999298
rad15	2.89033e-05	0.999840	0.000107498	0.999405
rad60anti	2.66305e-05	0.999867	9.90450e-05	0.999504
rad28	1.39563e-05	0.999881	5.19066e-05	0.999556
rad52	1.31498e-05	0.999894	4.89071e-05	0.999605
rad25	1.23093e-05	0.999906	4.57811e-05	0.999651
rad19syn	1.17360e-05	0.999918	4.36489e-05	0.999695
PhCCCH3+H	1.01626e-05	0.999928	3.77969e-05	0.999732
rad67	9.73307e-06	0.999938	3.61995e-05	0.999769
PhcycC3H3_A+H	8.29085e-06	0.999946	3.08356e-05	0.999799

PAH10+CH3	7.82381e-06	0.999954	2.90985e-05	0.999828
rad33	7.28265e-06	0.999961	2.70858e-05	0.999856
rad58	6.42083e-06	0.999968	2.38805e-05	0.999879
rad47	6.08947e-06	0.999974	2.26481e-05	0.999902
PAH1+H	4.40930e-06	0.999978	1.63992e-05	0.999918
rad54	4.18374e-06	0.999982	1.55603e-05	0.999934
rad37	2.92007e-06	0.999985	1.08604e-05	0.999945
rad70	2.91315e-06	0.999988	1.08347e-05	0.999956
rad71	1.65251e-06	0.999990	6.14608e-06	0.999962
rad10	1.50873e-06	0.999991	5.61129e-06	0.999967
rad26	1.47656e-06	0.999993	5.49165e-06	0.999973
rad65	1.28495e-06	0.999994	4.77904e-06	0.999978
rad2	1.18836e-06	0.999995	4.41980e-06	0.999982
rad73	1.17208e-06	0.999996	4.35923e-06	0.999987
rad34	8.06797e-07	0.999997	3.00066e-06	0.999990
rad3	6.54195e-07	0.999998	2.43310e-06	0.999992
rad4	5.23353e-07	0.999998	1.94647e-06	0.999994
rad1	3.45988e-07	0.999999	1.28681e-06	0.999995
rad55	3.35348e-07	0.999999	1.24724e-06	0.999996
PAH8+H	2.62259e-07	0.999999	9.75401e-07	0.999997
rad56	1.45746e-07	0.999999	5.42062e-07	0.999998
rad53	1.23844e-07	1.000000	4.60603e-07	0.999998
rad64	8.63410e-08	1.000000	3.21122e-07	0.999999
rad68syn	7.48194e-08	1.000000	2.78270e-07	0.999999
rad14	6.98534e-08	1.000000	2.59801e-07	0.999999
rad72	5.71742e-08	1.000000	2.12644e-07	0.999999
rad62	5.67346e-08	1.000000	2.11009e-07	1.000000
rad68anti	4.85816e-08	1.000000	1.80686e-07	1.000000
rad40syn	2.98886e-08	1.000000	1.11163e-07	1.000000
rad61	1.90170e-08	1.000000	7.07287e-08	1.000000
rad40anti	1.79743e-08	1.000000	6.68504e-08	1.000000
rad27	1.39652e-08	1.000000	5.19397e-08	1.000000
rad43	1.13761e-08	1.000000	4.23102e-08	1.000000
rad42	5.67610e-09	1.000000	2.11107e-08	1.000000
rad31	5.67331e-09	1.000000	2.11003e-08	1.000000
rad41	1.09345e-09	1.000000	4.06679e-09	1.000000
rad5	8.07330e-10	1.000000	3.00264e-09	1.000000

10000000.0 Pa, 1400.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.46691e-14 (1.00)	6.16640e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.750036	0.750036	0.00000	0.00000
Indene+H	0.0782245	0.828261	0.312943	0.312943
rad20	0.0727881	0.901049	0.291194	0.604137
rad21	0.0210846	0.922133	0.0843503	0.688487
rad45	0.0172814	0.939415	0.0691353	0.757623
PhCH2CCH+H	0.0162832	0.955698	0.0651421	0.822765
Ph+Allene	0.00821971	0.963918	0.0328835	0.855648
rad18	0.00701967	0.970937	0.0280827	0.883731
rad22	0.00476041	0.975698	0.0190444	0.902775
rad9	0.00470220	0.980400	0.0188115	0.921587
PhCHCCH2+H	0.00438738	0.984787	0.0175520	0.939139
rad11	0.00377004	0.988557	0.0150823	0.954221
rad23	0.00304661	0.991604	0.0121882	0.966409
rad6	0.00207970	0.993684	0.00831999	0.974729
rad36	0.00169991	0.995383	0.00680063	0.981530
PAH9+H	0.000738932	0.996122	0.00295615	0.984486
PAH3+H	0.000684046	0.996806	0.00273657	0.987223
rad30	0.000423061	0.997229	0.00169249	0.988915
rad24	0.000419016	0.997648	0.00167631	0.990591
PAH7+H	0.000358806	0.998007	0.00143543	0.992027
rad38	0.000331734	0.998339	0.00132713	0.993354
rad7	0.000204781	0.998544	0.000819242	0.994173
PhCCH+CH3	0.000178211	0.998722	0.000712945	0.994886
rad35	0.000149570	0.998872	0.000598366	0.995485
rad50	0.000146407	0.999018	0.000585714	0.996070
rad46	0.000124938	0.999143	0.000499823	0.996570
rad19anti	0.000115936	0.999259	0.000463810	0.997034
rad39	8.73991e-05	0.999346	0.000349646	0.997384
rad8	8.32556e-05	0.999430	0.000333070	0.997717
rad13	8.24519e-05	0.999512	0.000329855	0.998046
rad59	6.36485e-05	0.999576	0.000254631	0.998301
rad15	6.11422e-05	0.999637	0.000244604	0.998546
Ph+MeAc	5.59334e-05	0.999693	0.000223766	0.998769
rad60syn	4.88399e-05	0.999742	0.000195388	0.998965

rad51	4.84217e-05	0.999790	0.000193715	0.999159
rad12	4.24346e-05	0.999832	0.000169763	0.999328
rad60anti	3.07038e-05	0.999863	0.000122833	0.999451
rad25	1.41909e-05	0.999877	5.67718e-05	0.999508
rad28	1.34758e-05	0.999891	5.39109e-05	0.999562
rad52	1.33948e-05	0.999904	5.35868e-05	0.999615
rad19syn	1.12874e-05	0.999915	4.51561e-05	0.999661
PhCCCH3+H	1.01100e-05	0.999926	4.04460e-05	0.999701
rad67	9.93083e-06	0.999935	3.97290e-05	0.999741
PhcycC3H3_A+H	8.00602e-06	0.999943	3.20287e-05	0.999773
rad58	7.88532e-06	0.999951	3.15458e-05	0.999804
PAH10+CH3	7.75133e-06	0.999959	3.10097e-05	0.999835
rad33	7.23309e-06	0.999966	2.89365e-05	0.999864
rad47	5.85783e-06	0.999972	2.34347e-05	0.999888
PAH1+H	4.49687e-06	0.999977	1.79900e-05	0.999906
rad54	4.28588e-06	0.999981	1.71460e-05	0.999923
rad37	2.87956e-06	0.999984	1.15199e-05	0.999934
rad70	2.85308e-06	0.999987	1.14139e-05	0.999946
rad10	2.76574e-06	0.999990	1.10645e-05	0.999957
rad26	1.93897e-06	0.999991	7.75698e-06	0.999965
rad71	1.69944e-06	0.999993	6.79873e-06	0.999971
rad65	1.34470e-06	0.999994	5.37957e-06	0.999977
rad73	1.20372e-06	0.999996	4.81555e-06	0.999982
rad2	1.10143e-06	0.999997	4.40635e-06	0.999986
rad34	7.93959e-07	0.999998	3.17629e-06	0.999989
rad3	5.48680e-07	0.999998	2.19503e-06	0.999991
rad4	4.38075e-07	0.999999	1.75255e-06	0.999993
rad55	3.45469e-07	0.999999	1.38207e-06	0.999995
rad1	3.20056e-07	0.999999	1.28041e-06	0.999996
PAH8+H	2.63793e-07	1.000000	1.05532e-06	0.999997
rad56	1.54431e-07	1.000000	6.17813e-07	0.999997
rad53	1.30133e-07	1.000000	5.20606e-07	0.999998
rad14	9.05147e-08	1.000000	3.62111e-07	0.999998
rad64	8.83794e-08	1.000000	3.53568e-07	0.999999
rad68syn	7.46102e-08	1.000000	2.98484e-07	0.999999
rad72	5.89073e-08	1.000000	2.35663e-07	0.999999
rad62	5.60543e-08	1.000000	2.24249e-07	0.999999
rad68anti	4.84378e-08	1.000000	1.93779e-07	1.000000
rad40syn	2.99602e-08	1.000000	1.19858e-07	1.000000
rad61	1.88995e-08	1.000000	7.56090e-08	1.000000
rad40anti	1.80417e-08	1.000000	7.21772e-08	1.000000
rad27	1.75495e-08	1.000000	7.02079e-08	1.000000
rad43	1.11833e-08	1.000000	4.47395e-08	1.000000
rad42	5.65487e-09	1.000000	2.26227e-08	1.000000
rad31	5.11337e-09	1.000000	2.04564e-08	1.000000
rad5	1.52287e-09	1.000000	6.09237e-09	1.000000
rad41	1.07904e-09	1.000000	4.31677e-09	1.000000

10000000.0 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.81230e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.766195	0.766195	0.00000	0.00000
Indene+H	0.0760375	0.842232	0.325217	0.325217
rad20	0.0612784	0.903511	0.262092	0.587309
rad21	0.0196905	0.923201	0.0842175	0.671526
rad45	0.0164875	0.939689	0.0705181	0.742045
PhCH2CCH+H	0.0158773	0.955566	0.0679084	0.809953
Ph+Allene	0.00772477	0.963291	0.0330394	0.842992
rad18	0.00675924	0.970050	0.0289097	0.871902
rad22	0.00518864	0.975239	0.0221921	0.894094
rad9	0.00455970	0.979799	0.0195022	0.913596
rad11	0.00443337	0.984232	0.0189618	0.932558
PhCHCCH2+H	0.00420276	0.988435	0.0179755	0.950534
rad23	0.00313426	0.991569	0.0134055	0.963939
rad6	0.00204615	0.993615	0.00875152	0.972691
rad36	0.00161966	0.995235	0.00692738	0.979618
PAH9+H	0.000758110	0.995993	0.00324249	0.982861
PAH3+H	0.000732167	0.996725	0.00313153	0.985992
rad30	0.000436252	0.997161	0.00186588	0.987858
rad24	0.000398644	0.997560	0.00170503	0.989563
PAH7+H	0.000345163	0.997905	0.00147629	0.991039
rad38	0.000332692	0.998238	0.00142295	0.992462
rad7	0.000272021	0.998510	0.00116345	0.993626
PhCCH+CH3	0.000158237	0.998668	0.000676791	0.994303
rad35	0.000154920	0.998823	0.000662602	0.994965

rad50	0.000146761	0.998970	0.000627705	0.995593
rad46	0.000125229	0.999095	0.000535615	0.996128
rad19anti	0.000116527	0.999211	0.000498393	0.996627
rad15	0.000109522	0.999321	0.000468435	0.997095
rad8	8.70726e-05	0.999408	0.000372415	0.997468
rad39	8.59415e-05	0.999494	0.000367578	0.997835
rad13	7.57786e-05	0.999570	0.000324110	0.998159
rad59	6.78214e-05	0.999638	0.000290077	0.998449
Ph+MeAc	5.20524e-05	0.999690	0.000222632	0.998672
rad60syn	5.14698e-05	0.999741	0.000220140	0.998892
rad51	4.85780e-05	0.999790	0.000207771	0.999100
rad12	4.11129e-05	0.999831	0.000175843	0.999276
rad60anti	3.23959e-05	0.999863	0.000138560	0.999414
rad28	1.61666e-05	0.999879	6.91457e-05	0.999484
rad25	1.45460e-05	0.999894	6.22142e-05	0.999546
rad52	1.34377e-05	0.999907	5.74739e-05	0.999603
rad67	9.79389e-06	0.999917	4.18891e-05	0.999645
PhCCCH3+H	9.71554e-06	0.999927	4.15968e-05	0.999687
rad19syn	9.71708e-06	0.999937	4.15606e-05	0.999728
rad58	8.57150e-06	0.999945	3.66609e-05	0.999765
PAH10+CH3	7.17291e-06	0.999952	3.06790e-05	0.999796
PhcycC3H3_A+H	6.81322e-06	0.999959	2.91406e-05	0.999825
rad33	6.20912e-06	0.999965	2.65568e-05	0.999851
rad47	5.56833e-06	0.999971	2.38161e-05	0.999875
PAH1+H	4.32425e-06	0.999975	1.84951e-05	0.999894
rad54	3.94494e-06	0.999979	1.68728e-05	0.999910
rad10	3.80969e-06	0.999983	1.62943e-05	0.999927
rad26	3.15004e-06	0.999986	1.34730e-05	0.999940
rad70	2.73775e-06	0.999989	1.17095e-05	0.999952
rad37	2.66198e-06	0.999992	1.13855e-05	0.999963
rad71	1.71913e-06	0.999993	7.35283e-06	0.999971
rad65	1.39167e-06	0.999995	5.95225e-06	0.999977
rad73	1.21622e-06	0.999996	5.20184e-06	0.999982
rad2	9.85476e-07	0.999997	4.21495e-06	0.999986
rad34	7.63814e-07	0.999998	3.26688e-06	0.999989
rad3	4.30481e-07	0.999998	1.84120e-06	0.999991
rad4	3.43220e-07	0.999998	1.46797e-06	0.999993
rad55	3.19225e-07	0.999999	1.36535e-06	0.999994
rad1	2.87117e-07	0.999999	1.22802e-06	0.999995
PAH8+H	2.56808e-07	0.999999	1.09838e-06	0.999996
rad56	1.45502e-07	0.999999	6.22322e-07	0.999997
rad53	1.21904e-07	1.000000	5.21392e-07	0.999997
rad14	9.25478e-08	1.000000	3.95833e-07	0.999998
rad64	8.52426e-08	1.000000	3.64588e-07	0.999998
rad68syn	7.22921e-08	1.000000	3.09198e-07	0.999999
rad72	5.96844e-08	1.000000	2.55274e-07	0.999999
rad62	5.19200e-08	1.000000	2.22065e-07	0.999999
rad68anti	4.69287e-08	1.000000	2.00717e-07	0.999999
rad40syn	2.91107e-08	1.000000	1.24508e-07	0.999999
rad27	1.81667e-08	1.000000	7.77001e-08	0.999999
rad40anti	1.75426e-08	1.000000	7.50310e-08	1.000000
rad61	1.75059e-08	1.000000	7.48738e-08	1.000000
rad43	1.06092e-08	1.000000	4.53764e-08	1.000000
rad42	5.27475e-09	1.000000	2.25605e-08	1.000000
rad31	4.28990e-09	1.000000	1.83482e-08	1.000000
rad5	3.86207e-09	1.000000	1.65183e-08	1.000000
rad41	1.02704e-09	1.000000	4.39271e-09	1.000000

10000000.0 Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	1.71775e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.813004	0.813004	0.00000	0.00000
PhCH2CCH+H	0.0530245	0.866028	0.283560	0.283560
Indene+H	0.0469887	0.913017	0.251282	0.534842
PhCHCCH2+H	0.0270781	0.940095	0.144806	0.679648
Ph+Allene	0.0152601	0.955355	0.0816064	0.761254
rad20	0.00705639	0.962412	0.0377355	0.798990
PAH3+H	0.00622502	0.968637	0.0332896	0.832280
rad22	0.00301041	0.971647	0.0160988	0.848378
PAH7+H	0.00284064	0.974488	0.0151909	0.863569
rad50	0.00263682	0.977125	0.0141010	0.877670
rad39	0.00229425	0.979419	0.0122690	0.889939
rad51	0.00217036	0.981589	0.0116065	0.901546
PAH9+H	0.00197671	0.983566	0.0105709	0.912117
rad71	0.00190234	0.985468	0.0101732	0.922290

rad21	0.00188645	0.987355	0.0100882	0.932378
rad38	0.00151160	0.988866	0.00808360	0.940462
rad18	0.00108251	0.989949	0.00578895	0.946251
PhCCH+CH3	0.00101653	0.990965	0.00543609	0.951687
rad30	0.000753605	0.991719	0.00403006	0.955717
rad46	0.000725462	0.992444	0.00387957	0.959596
Ph+MeAc	0.000694599	0.993139	0.00371452	0.963311
rad35	0.000605552	0.993745	0.00323832	0.966549
rad73	0.000591849	0.994336	0.00316504	0.969714
rad19anti	0.000532844	0.994869	0.00284950	0.972564
rad11	0.000487704	0.995357	0.00260810	0.975172
rad23	0.000468163	0.995825	0.00250360	0.977675
rad59	0.000424032	0.996249	0.00226760	0.979943
rad6	0.000409908	0.996659	0.00219207	0.982135
rad72	0.000369850	0.997029	0.00197785	0.984113
rad52	0.000360358	0.997389	0.00192709	0.986040
PAH1+H	0.000280841	0.997670	0.00150186	0.987542
PhCCCH3+H	0.000250561	0.997921	0.00133993	0.988882
rad45	0.000243087	0.998164	0.00129996	0.990182
rad67	0.000239560	0.998403	0.00128110	0.991463
PAH10+CH3	0.000228099	0.998632	0.00121981	0.992683
rad60syn	0.000193478	0.998825	0.00103466	0.993717
rad19syn	0.000179203	0.999004	0.000958327	0.994676
rad58	0.000165537	0.999170	0.000885244	0.995561
rad60anti	0.000144088	0.999314	0.000770543	0.996331
rad9	0.000133591	0.999447	0.000714405	0.997046
rad47	8.81905e-05	0.999536	0.000471618	0.997517
PAH8+H	8.37944e-05	0.999619	0.000448108	0.997966
PhcycC3H3_A+H	5.14375e-05	0.999671	0.000275073	0.998241
rad70	4.85203e-05	0.999719	0.000259473	0.998500
rad36	4.35765e-05	0.999763	0.000233035	0.998733
rad65	3.89632e-05	0.999802	0.000208364	0.998941
rad24	3.31821e-05	0.999835	0.000177448	0.999119
rad8	2.98669e-05	0.999865	0.000159719	0.999279
rad34	2.24100e-05	0.999887	0.000119842	0.999398
rad37	1.69444e-05	0.999904	9.06139e-05	0.999489
rad15	1.23924e-05	0.999917	6.62712e-05	0.999555
rad54	1.14610e-05	0.999928	6.12900e-05	0.999617
rad7	8.58155e-06	0.999937	4.58917e-05	0.999663
rad64	8.46922e-06	0.999945	4.52910e-05	0.999708
rad68syn	8.27438e-06	0.999953	4.42490e-05	0.999752
rad28	7.34261e-06	0.999961	3.92662e-05	0.999791
rad40syn	5.90565e-06	0.999967	3.15817e-05	0.999823
rad12	5.51203e-06	0.999972	2.94768e-05	0.999852
rad68anti	5.25684e-06	0.999977	2.81121e-05	0.999881
rad40anti	4.63625e-06	0.999982	2.47933e-05	0.999905
rad62	3.03937e-06	0.999985	1.62537e-05	0.999922
rad56	3.00203e-06	0.999988	1.60540e-05	0.999938
rad61	2.49425e-06	0.999991	1.33385e-05	0.999951
rad13	1.69972e-06	0.999992	9.08964e-06	0.999960
rad53	1.68648e-06	0.999994	9.01881e-06	0.999969
rad55	1.37300e-06	0.999995	7.34244e-06	0.999976
rad25	1.13617e-06	0.999997	6.07589e-06	0.999982
rad26	1.02987e-06	0.999998	5.50746e-06	0.999988
rad42	7.56988e-07	0.999998	4.04816e-06	0.999992
rad43	5.55602e-07	0.999999	2.97120e-06	0.999995
rad10	4.92347e-07	0.999999	2.63293e-06	0.999998
rad41	1.54287e-07	1.000000	8.25083e-07	0.999998
rad33	1.51690e-07	1.000000	8.11193e-07	0.999999
rad2	5.08074e-08	1.000000	2.71704e-07	1.000000
rad14	2.54533e-08	1.000000	1.36117e-07	1.000000
rad1	2.45204e-08	1.000000	1.31128e-07	1.000000
rad5	1.70021e-08	1.000000	9.09223e-08	1.000000
rad27	5.93166e-09	1.000000	3.17208e-08	1.000000
rad3	4.63199e-09	1.000000	2.47706e-08	1.000000
rad4	2.70037e-09	1.000000	1.44408e-08	1.000000

10000000.0 Pa, 2000.00000 K

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

Total | 1.85359e-13 (1.00) | 2.92291e-14 (1.00)

species | PYtrue | Cumul | PYeffective | Cumul

Benzyl+C2H2 | 0.842311 | 0.842311 | 0.00000 | 0.00000
Indene+H | 0.0437562 | 0.886067 | 0.277484 | 0.277484
PhCH2CCH+H | 0.0436790 | 0.929746 | 0.276995 | 0.554479
PhCHCCH2+H | 0.0216552 | 0.951401 | 0.137328 | 0.691807
Ph+Allene | 0.0130963 | 0.964498 | 0.0830512 | 0.774858

PAH3+H	0.00515550	0.969653	0.0326941	0.807552
rad20	0.00411726	0.973770	0.0261100	0.833662
rad50	0.00242742	0.976198	0.0153937	0.849056
PAH7+H	0.00238276	0.978581	0.0151105	0.864166
rad39	0.00209915	0.980680	0.0133119	0.877478
PAH9+H	0.00204580	0.982726	0.0129737	0.890452
rad51	0.00201098	0.984737	0.0127528	0.903205
rad71	0.00176287	0.986499	0.0111794	0.914384
rad22	0.00153830	0.988038	0.00975528	0.924140
rad38	0.00140583	0.989444	0.00891518	0.933055
rad21	0.00132528	0.990769	0.00840437	0.941459
PhCCH+CH3	0.000783385	0.991552	0.00496791	0.946427
rad46	0.000669662	0.992222	0.00424673	0.950674
rad30	0.000661552	0.992883	0.00419530	0.954869
rad18	0.000607519	0.993491	0.00385264	0.958722
Ph+MeAc	0.000568026	0.994059	0.00360219	0.962324
rad73	0.000548113	0.994607	0.00347591	0.965800
rad35	0.000546020	0.995153	0.00346264	0.969262
rad19anti	0.000444002	0.995597	0.00281568	0.972078
rad23	0.000433530	0.996031	0.00274927	0.974827
rad11	0.000415503	0.996446	0.00263496	0.977462
rad59	0.000351922	0.996798	0.00223175	0.979694
rad72	0.000342865	0.997141	0.00217431	0.981868
rad52	0.000334135	0.997475	0.00211895	0.983987
rad6	0.000308821	0.997784	0.00195842	0.985946
PAH1+H	0.000235758	0.998020	0.00149508	0.987441
rad45	0.000216023	0.998236	0.00136993	0.988811
rad67	0.000199561	0.998435	0.00126553	0.990076
PhCCCH3+H	0.000193908	0.998629	0.00122969	0.991306
PAH10+CH3	0.000189270	0.998818	0.00120027	0.992506
rad60syn	0.000162635	0.998981	0.00103137	0.993538
rad58	0.000137379	0.999118	0.000871201	0.994409
rad19syn	0.000135914	0.999254	0.000861911	0.995271
rad9	0.000134744	0.999389	0.000854494	0.996125
rad60anti	0.000120829	0.999510	0.000766248	0.996892
rad47	7.36040e-05	0.999584	0.000466767	0.997358
PAH8+H	6.77360e-05	0.999651	0.000429554	0.997788
PhcycC3H3_A+H	5.58841e-05	0.999707	0.000354394	0.998142
rad65	4.12961e-05	0.999748	0.000261883	0.998404
rad70	3.95650e-05	0.999788	0.000250905	0.998655
rad36	3.87010e-05	0.999827	0.000245426	0.998900
rad24	2.72786e-05	0.999854	0.000172990	0.999073
rad8	2.70639e-05	0.999881	0.000171628	0.999245
rad34	1.82113e-05	0.999899	0.000115489	0.999361
rad37	1.40469e-05	0.999913	8.90798e-05	0.999450
rad15	1.24529e-05	0.999926	7.89712e-05	0.999529
rad54	1.13163e-05	0.999937	7.17633e-05	0.999600
rad28	9.38852e-06	0.999946	5.95382e-05	0.999660
rad64	7.10601e-06	0.999954	4.50635e-05	0.999705
rad68syn	6.69650e-06	0.999960	4.24665e-05	0.999747
rad7	6.06418e-06	0.999966	3.84566e-05	0.999786
rad40syn	4.77480e-06	0.999971	3.02798e-05	0.999816
rad12	4.54969e-06	0.999976	2.88523e-05	0.999845
rad68anti	4.25447e-06	0.999980	2.69801e-05	0.999872
rad40anti	3.74766e-06	0.999984	2.37661e-05	0.999896
rad56	3.05720e-06	0.999987	1.93876e-05	0.999915
rad62	2.66830e-06	0.999989	1.69213e-05	0.999932
rad61	2.07049e-06	0.999991	1.31302e-05	0.999945
rad53	1.71023e-06	0.999993	1.08456e-05	0.999956
rad55	1.36568e-06	0.999995	8.66062e-06	0.999965
rad13	1.21540e-06	0.999996	7.70760e-06	0.999972
rad26	1.21311e-06	0.999997	7.69306e-06	0.999980
rad25	1.09934e-06	0.999998	6.97155e-06	0.999987
rad42	6.65097e-07	0.999999	4.21778e-06	0.999991
rad43	4.45833e-07	0.999999	2.82730e-06	0.999994
rad10	4.39430e-07	1.000000	2.78669e-06	0.999997
rad41	1.23495e-07	1.000000	7.83156e-07	0.999998
rad33	1.11460e-07	1.000000	7.06832e-07	0.999998
rad5	8.15510e-08	1.000000	5.17164e-07	0.999999
rad2	4.11684e-08	1.000000	2.61074e-07	0.999999
rad14	2.11244e-08	1.000000	1.33962e-07	0.999999
rad1	1.99805e-08	1.000000	1.26708e-07	0.999999
rad27	4.59514e-09	1.000000	2.91405e-08	0.999999
rad3	3.34301e-09	1.000000	2.12000e-08	0.999999
rad4	1.96676e-09	1.000000	1.24724e-08	1.000000

10000000.0 Pa, 2250.00000 K

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

Total | 3.29136e-13 (1.00) 4.58849e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.860590	0.860590	0.00000	0.00000
PhCH2CCH+H	0.0418596	0.902450	0.300263	0.300263
Indene+H	0.0388952	0.941345	0.278999	0.579262
PhCHCCH2+H	0.0183536	0.959698	0.131652	0.710914
Ph+Allene	0.0120511	0.971749	0.0864434	0.797357
PAH3+H	0.00384110	0.975591	0.0275526	0.824910
rad20	0.00244499	0.978036	0.0175382	0.842448
rad50	0.00214330	0.980179	0.0153741	0.857822
PAH7+H	0.00196941	0.982148	0.0141267	0.871949
PAH9+H	0.00196546	0.984114	0.0140984	0.886047
rad39	0.00184649	0.985960	0.0132450	0.899292
rad51	0.00178696	0.987747	0.0128180	0.912110
rad71	0.00156705	0.989314	0.0112406	0.923351
rad38	0.00125360	0.990568	0.00899218	0.932343
rad21	0.000889302	0.991457	0.00637904	0.938722
rad22	0.000854940	0.992312	0.00613256	0.944855
PhCCH+CH3	0.000620826	0.992933	0.00445324	0.949308
rad46	0.000593005	0.993526	0.00425368	0.953562
rad30	0.000574037	0.994100	0.00411762	0.957679
Ph+MeAc	0.000492353	0.994592	0.00353169	0.961211
rad73	0.000486853	0.995079	0.00349224	0.964703
rad35	0.000466065	0.995545	0.00334312	0.968046
rad19anti	0.000406275	0.995952	0.00291425	0.970961
rad18	0.000367255	0.996319	0.00263435	0.973595
rad11	0.000345049	0.996664	0.00247507	0.976070
rad23	0.000331219	0.996995	0.00237586	0.978446
rad72	0.000305010	0.997300	0.00218786	0.980634
rad52	0.000297024	0.997597	0.00213058	0.982764
rad59	0.000268048	0.997865	0.00192273	0.984687
rad6	0.000259350	0.998124	0.00186034	0.986547
PAH1+H	0.000193607	0.998318	0.00138876	0.987936
rad45	0.000185156	0.998503	0.00132814	0.989264
rad67	0.000171757	0.998675	0.00123203	0.990496
PAH10+CH3	0.000157417	0.998832	0.00112917	0.991626
PhCCCH3+H	0.000156373	0.998989	0.00112168	0.992747
rad9	0.000149667	0.999138	0.00107357	0.993821
rad60syn	0.000129728	0.999268	0.000930549	0.994751
rad19syn	0.000105298	0.999373	0.000755312	0.995507
rad58	9.78103e-05	0.999471	0.000701602	0.996208
rad60anti	9.56661e-05	0.999567	0.000686221	0.996894
PhcycC3H3_A+H	6.00516e-05	0.999627	0.000430755	0.997325
rad47	5.96591e-05	0.999687	0.000427940	0.997753
PAH8+H	5.32110e-05	0.999740	0.000381687	0.998135
rad65	4.13139e-05	0.999781	0.000296348	0.998431
rad36	3.31974e-05	0.999814	0.000238128	0.998669
rad70	3.20521e-05	0.999846	0.000229912	0.998899
rad8	2.58721e-05	0.999872	0.000185583	0.999085
rad24	2.11756e-05	0.999893	0.000151895	0.999237
rad34	1.46007e-05	0.999908	0.000104732	0.999341
rad15	1.32294e-05	0.999921	9.48959e-05	0.999436
rad37	1.18770e-05	0.999933	8.51947e-05	0.999522
rad54	1.10648e-05	0.999944	7.93689e-05	0.999601
rad28	8.87406e-06	0.999953	6.36544e-05	0.999665
rad7	5.86524e-06	0.999959	4.20719e-05	0.999707
rad64	5.82154e-06	0.999965	4.17584e-05	0.999748
rad68syn	5.28571e-06	0.999970	3.79149e-05	0.999786
rad12	4.38741e-06	0.999974	3.14713e-05	0.999818
rad40syn	3.75807e-06	0.999978	2.69570e-05	0.999845
rad68anti	3.35842e-06	0.999982	2.40903e-05	0.999869
rad56	3.04520e-06	0.999985	2.18435e-05	0.999891
rad40anti	2.94776e-06	0.999988	2.11445e-05	0.999912
rad62	2.32300e-06	0.999990	1.66631e-05	0.999928
rad61	1.71141e-06	0.999992	1.22761e-05	0.999941
rad53	1.69605e-06	0.999993	1.21659e-05	0.999953
rad55	1.33877e-06	0.999995	9.60314e-06	0.999962
rad26	1.27928e-06	0.999996	9.17642e-06	0.999972
rad13	1.13885e-06	0.999997	8.16905e-06	0.999980
rad25	1.06257e-06	0.999998	7.62188e-06	0.999987
rad42	5.80286e-07	0.999999	4.16244e-06	0.999992
rad10	3.95711e-07	0.999999	2.83847e-06	0.999994
rad43	3.62141e-07	0.999999	2.59767e-06	0.999997
rad5	1.24554e-07	1.000000	8.93438e-07	0.999998
rad33	1.03323e-07	1.000000	7.41142e-07	0.999999
rad41	9.94571e-08	1.000000	7.13415e-07	0.999999
rad2	4.03523e-08	1.000000	2.89450e-07	1.000000
rad1	1.93461e-08	1.000000	1.38771e-07	1.000000

rad14	1.72052e-08	1.000000	1.23414e-07	1.000000
rad27	3.81804e-09	1.000000	2.73872e-08	1.000000
rad3	3.12226e-09	1.000000	2.23963e-08	1.000000
rad4	1.85286e-09	1.000000	1.32908e-08	1.000000

10000000.0 Pa, 2500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.32896e-13 (1.00)	7.02714e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.868133	0.868133	0.00000	0.00000
PhCH2CCH+H	0.0458519	0.913985	0.347714	0.347714
Indene+H	0.0338222	0.947807	0.256488	0.604202
PhCHCCH2+H	0.0171107	0.964918	0.129758	0.733960
Ph+Allene	0.0119063	0.976824	0.0902905	0.824250
PAH3+H	0.00302166	0.979846	0.0229145	0.847165
rad50	0.00185586	0.981702	0.0140737	0.861239
PAH9+H	0.00174350	0.983445	0.0132217	0.874460
PAH7+H	0.00166599	0.985111	0.0126339	0.887094
rad39	0.00159613	0.986707	0.0121041	0.899198
rad51	0.00155027	0.988258	0.0117563	0.910955
rad20	0.00149841	0.989756	0.0113630	0.922318
rad71	0.00135989	0.991116	0.0103126	0.932630
rad38	0.00109731	0.992213	0.00832133	0.940952
rad21	0.000588358	0.992801	0.00446176	0.945413
rad22	0.000529793	0.993331	0.00401764	0.949431
PhCCH+CH3	0.000528397	0.993860	0.00400705	0.953438
rad30	0.000520030	0.994380	0.00394360	0.957382
rad46	0.000516289	0.994896	0.00391523	0.961297
Ph+MeAc	0.000465631	0.995362	0.00353107	0.964828
rad73	0.000422305	0.995784	0.00320252	0.968031
rad19anti	0.000419582	0.996204	0.00318186	0.971212
rad35	0.000401930	0.996605	0.00304800	0.974260
rad23	0.000277423	0.996883	0.00210381	0.976364
rad11	0.000266351	0.997149	0.00201985	0.978384
rad72	0.000264792	0.997414	0.00200803	0.980392
rad52	0.000257947	0.997672	0.00195611	0.982348
rad6	0.000236810	0.997909	0.00179583	0.984144
rad18	0.000222106	0.998131	0.00168432	0.985828
rad59	0.000217569	0.998348	0.00164992	0.987478
rad9	0.000166654	0.998515	0.00126381	0.988742
rad67	0.000161154	0.998676	0.00122209	0.989964
PAH1+H	0.000159263	0.998836	0.00120775	0.991172
rad45	0.000156269	0.998992	0.00118505	0.992357
PhCCCH3+H	0.000138580	0.999130	0.00105091	0.993408
PAH10+CH3	0.000136338	0.999267	0.00103391	0.994442
rad60syn	0.000110738	0.999377	0.000839775	0.995282
rad19syn	8.76396e-05	0.999465	0.000664607	0.995946
rad60anti	8.10612e-05	0.999546	0.000614720	0.996561
rad58	7.10673e-05	0.999617	0.000538932	0.997100
PhcycC3H3_A+H	6.06395e-05	0.999678	0.000459854	0.997560
rad47	4.77640e-05	0.999726	0.000362214	0.997922
PAH8+H	4.20425e-05	0.999768	0.000318826	0.998241
rad65	3.68792e-05	0.999805	0.000279670	0.998520
rad36	2.80716e-05	0.999833	0.000212878	0.998733
rad70	2.70078e-05	0.999860	0.000204811	0.998938
rad8	2.55001e-05	0.999885	0.000193378	0.999131
rad24	1.60801e-05	0.999901	0.000121942	0.999253
rad15	1.44271e-05	0.999916	0.000109407	0.999363
rad34	1.20753e-05	0.999928	9.15717e-05	0.999454
rad37	1.07243e-05	0.999938	8.13265e-05	0.999536
rad54	1.05938e-05	0.999949	8.03369e-05	0.999616
rad28	8.44126e-06	0.999957	6.40135e-05	0.999680
rad7	6.18518e-06	0.999964	4.69048e-05	0.999727
rad64	4.76784e-06	0.999968	3.61564e-05	0.999763
rad12	4.76238e-06	0.999973	3.61151e-05	0.999799
rad68syn	4.22888e-06	0.999977	3.20693e-05	0.999831
rad40syn	2.98484e-06	0.999980	2.26352e-05	0.999854
rad56	2.83995e-06	0.999983	2.15365e-05	0.999875
rad68anti	2.68743e-06	0.999986	2.03799e-05	0.999896
rad40anti	2.33721e-06	0.999988	1.77240e-05	0.999914
rad62	1.98753e-06	0.999990	1.50723e-05	0.999929
rad53	1.58767e-06	0.999992	1.20400e-05	0.999941
rad61	1.45603e-06	0.999993	1.10416e-05	0.999952
rad26	1.37120e-06	0.999995	1.03984e-05	0.999962
rad55	1.27387e-06	0.999996	9.66031e-06	0.999972
rad13	1.15145e-06	0.999997	8.73191e-06	0.999980

rad25	9.86944e-07	0.999998	7.48440e-06	0.999988
rad42	4.95186e-07	0.999999	3.75520e-06	0.999992
rad10	4.03326e-07	0.999999	3.05859e-06	0.999995
rad43	3.10899e-07	0.999999	2.35767e-06	0.999997
rad5	1.37383e-07	0.999999	1.04183e-06	0.999998
rad33	1.05379e-07	1.000000	7.99132e-07	0.999999
rad41	8.36710e-08	1.000000	6.34511e-07	1.000000
rad2	4.47439e-08	1.000000	3.39311e-07	1.000000
rad1	2.12629e-08	1.000000	1.61245e-07	1.000000
rad14	1.45969e-08	1.000000	1.10695e-07	1.000000
rad27	3.64378e-09	1.000000	2.76323e-08	1.000000
rad3	3.15859e-09	1.000000	2.39529e-08	1.000000
rad4	1.87252e-09	1.000000	1.42001e-08	1.000000

10000000.0 Pa, 2750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.05113e-13 (1.00)	1.06558e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.867648	0.867648	0.000000	0.000000
PhCH2CCH+H	0.0535987	0.921247	0.404971	0.404971
Indene+H	0.0292428	0.950489	0.220947	0.625918
PhCHCCH2+H	0.0173313	0.967821	0.130949	0.756867
Ph+Allene	0.0124024	0.980223	0.0937074	0.850574
PAH3+H	0.00268080	0.982904	0.0202551	0.870829
rad50	0.00159554	0.984500	0.0120553	0.882885
PAH9+H	0.00150460	0.986004	0.0113682	0.894253
PAH7+H	0.00146680	0.987471	0.0110826	0.905336
rad39	0.00137211	0.988843	0.0103671	0.915703
rad51	0.00133033	0.990173	0.0100515	0.925754
rad71	0.00116491	0.991338	0.00880159	0.934556
rad20	0.000957256	0.992296	0.00723266	0.941788
rad38	0.000956186	0.993252	0.00722457	0.949013
rad30	0.000489661	0.993741	0.00369969	0.952713
PhCCH+CH3	0.000487242	0.994229	0.00368141	0.956394
Ph+MeAc	0.000473404	0.994702	0.00357686	0.959971
rad19anti	0.000467099	0.995169	0.00352922	0.963500
rad46	0.000447719	0.995617	0.00338279	0.966883
rad21	0.000392523	0.996009	0.00296576	0.969849
rad35	0.000362850	0.996372	0.00274155	0.972590
rad73	0.000361812	0.996734	0.00273371	0.975324
rad22	0.000331308	0.997065	0.00250324	0.977827
rad23	0.000230590	0.997296	0.00174225	0.979569
rad72	0.000226755	0.997523	0.00171328	0.981283
rad52	0.000221796	0.997744	0.00167581	0.982959
rad6	0.000205566	0.997950	0.00155318	0.984512
rad59	0.000197734	0.998148	0.00149400	0.986006
rad11	0.000196394	0.998344	0.00148388	0.987490
rad9	0.000175634	0.998520	0.00132702	0.988817
rad67	0.000163072	0.998683	0.00123211	0.990049
PhCCCH3+H	0.000135366	0.998818	0.00102277	0.991072
rad18	0.000135237	0.998953	0.00102180	0.992093
PAH1+H	0.000133429	0.999087	0.00100814	0.993101
rad45	0.000130583	0.999218	0.000986637	0.994088
PAH10+CH3	0.000124435	0.999342	0.000940180	0.995028
rad60syn	0.000103407	0.999445	0.000781303	0.995810
rad19syn	8.08192e-05	0.999526	0.000610639	0.996420
rad60anti	7.54352e-05	0.999602	0.000569960	0.996990
rad58	5.83254e-05	0.999660	0.000440685	0.997431
PhcycC3H3_A+H	5.80525e-05	0.999718	0.000438623	0.997870
rad47	3.81572e-05	0.999756	0.000288301	0.998158
PAH8+H	3.42465e-05	0.999790	0.000258753	0.998417
rad65	3.13416e-05	0.999822	0.000236805	0.998653
rad8	2.52667e-05	0.999847	0.000190905	0.998844
rad70	2.43533e-05	0.999871	0.000184004	0.999028
rad36	2.35116e-05	0.999895	0.000177644	0.999206
rad15	1.52401e-05	0.999910	0.000115149	0.999321
rad24	1.21941e-05	0.999922	9.21336e-05	0.999413
rad34	1.06295e-05	0.999933	8.03126e-05	0.999494
rad37	1.04152e-05	0.999943	7.86935e-05	0.999572
rad54	1.00964e-05	0.999953	7.62847e-05	0.999649
rad28	7.68145e-06	0.999961	5.80381e-05	0.999707
rad7	6.20530e-06	0.999967	4.68849e-05	0.999753
rad12	5.29263e-06	0.999973	3.99891e-05	0.999793
rad64	3.96943e-06	0.999977	2.99915e-05	0.999823
rad68syn	3.53391e-06	0.999980	2.67009e-05	0.999850
rad56	2.55168e-06	0.999983	1.92795e-05	0.999869

rad40syn	2.45775e-06	0.999985	1.85698e-05	0.999888
rad68anti	2.24652e-06	0.999987	1.69738e-05	0.999905
rad40anti	1.91723e-06	0.999989	1.44859e-05	0.999919
rad62	1.69746e-06	0.999991	1.28254e-05	0.999932
rad26	1.44930e-06	0.999992	1.09504e-05	0.999943
rad53	1.44198e-06	0.999994	1.08951e-05	0.999954
rad61	1.28680e-06	0.999995	9.72253e-06	0.999964
rad55	1.20039e-06	0.999996	9.06970e-06	0.999973
rad13	1.11365e-06	0.999997	8.41431e-06	0.999981
rad25	8.81861e-07	0.999998	6.66301e-06	0.999988
rad10	4.40544e-07	0.999999	3.32858e-06	0.999991
rad42	4.18954e-07	0.999999	3.16545e-06	0.999994
rad43	2.88005e-07	1.000000	2.17606e-06	0.999997
rad5	1.50024e-07	1.000000	1.13353e-06	0.999998
rad33	1.04967e-07	1.000000	7.93092e-07	0.999999
rad41	7.48854e-08	1.000000	5.65805e-07	0.999999
rad2	4.98954e-08	1.000000	3.76990e-07	0.999999
rad1	2.38687e-08	1.000000	1.80343e-07	1.000000
rad14	1.29740e-08	1.000000	9.80263e-08	1.000000
rad27	3.83183e-09	1.000000	2.89518e-08	1.000000
rad3	3.07814e-09	1.000000	2.32572e-08	1.000000
rad4	1.81381e-09	1.000000	1.37045e-08	1.000000

10000000.0 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15309e-12 (1.00)	1.59410e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.861754	0.861754	0.00000	0.00000
PhCH2CCH+H	0.0635572	0.925311	0.459739	0.459739
Indene+H	0.0253129	0.950624	0.183100	0.642839
PhCHCCH2+H	0.0184895	0.969114	0.133743	0.776582
Ph+Allene	0.0133378	0.982451	0.0964782	0.873060
PAH3+H	0.00264379	0.985095	0.0191238	0.892184
rad50	0.00137174	0.986467	0.00992240	0.902106
PAH7+H	0.00134662	0.987814	0.00974072	0.911847
PAH9+H	0.00129579	0.989109	0.00937308	0.921220
rad39	0.00118077	0.990290	0.00854108	0.929761
rad51	0.00113794	0.991428	0.00823124	0.937993
rad71	0.000991094	0.992419	0.00716904	0.945162
rad38	0.000835400	0.993255	0.00604283	0.951204
rad20	0.000638752	0.993893	0.00462039	0.955825
rad19anti	0.000527619	0.994421	0.00381651	0.959641
Ph+MeAc	0.000502432	0.994923	0.00363432	0.963276
PhCCH+CH3	0.000483266	0.995407	0.00349569	0.966771
rad30	0.000469789	0.995876	0.00339820	0.970170
rad46	0.000389389	0.996266	0.00281663	0.972986
rad35	0.000342983	0.996609	0.00248096	0.975467
rad73	0.000308138	0.996917	0.00222891	0.977696
rad21	0.000267157	0.997184	0.00193247	0.979628
rad22	0.000207068	0.997391	0.00149782	0.981126
rad59	0.000196445	0.997588	0.00142098	0.982547
rad72	0.000192647	0.997780	0.00139351	0.983941
rad52	0.000190315	0.997971	0.00137664	0.985317
rad23	0.000186102	0.998157	0.00134616	0.986664
rad9	0.000172166	0.998329	0.00124536	0.987909
rad67	0.000172095	0.998501	0.00124484	0.989154
rad6	0.000166341	0.998667	0.00120322	0.990357
rad11	0.000142797	0.998810	0.00103292	0.991390
PhCCCH3+H	0.000141839	0.998952	0.00102599	0.992416
PAH10+CH3	0.000119153	0.999071	0.000861890	0.993278
PAH1+H	0.000115241	0.999186	0.000833594	0.994111
rad45	0.000108227	0.999295	0.000782854	0.994894
rad60syn	0.000102498	0.999397	0.000741419	0.995636
rad18	8.39330e-05	0.999481	0.000607126	0.996243
rad19syn	8.33741e-05	0.999564	0.000603084	0.996846
rad60anti	7.48397e-05	0.999639	0.000541350	0.997387
rad58	5.53511e-05	0.999695	0.000400380	0.997788
PhcycC3H3_A+H	5.39694e-05	0.999748	0.000390386	0.998178
rad47	3.05881e-05	0.999779	0.000221258	0.998399
PAH8+H	2.94756e-05	0.999809	0.000213211	0.998612
rad65	2.62682e-05	0.999835	0.000190010	0.998802
rad8	2.48317e-05	0.999860	0.000179619	0.998982
rad70	2.36885e-05	0.999883	0.000171350	0.999153
rad36	1.95296e-05	0.999903	0.000141266	0.999295
rad15	1.51473e-05	0.999918	0.000109568	0.999404
rad37	1.06378e-05	0.999929	7.69480e-05	0.999481

rad34	1.01136e-05	0.999939	7.31566e-05	0.999554
rad54	9.74458e-06	0.999948	7.04871e-05	0.999625
rad24	9.32481e-06	0.999958	6.74506e-05	0.999692
rad28	6.60004e-06	0.999964	4.77411e-05	0.999740
rad7	5.74822e-06	0.999970	4.15795e-05	0.999782
rad12	5.66280e-06	0.999976	4.09616e-05	0.999823
rad64	3.40315e-06	0.999979	2.46165e-05	0.999847
rad68syn	3.16528e-06	0.999982	2.28959e-05	0.999870
rad56	2.28533e-06	0.999985	1.65308e-05	0.999887
rad40syn	2.15225e-06	0.999987	1.55682e-05	0.999902
rad68anti	2.01306e-06	0.999989	1.45614e-05	0.999917
rad40anti	1.66846e-06	0.999991	1.20688e-05	0.999929
rad62	1.47296e-06	0.999992	1.06546e-05	0.999939
rad26	1.45519e-06	0.999993	1.05261e-05	0.999950
rad53	1.31242e-06	0.999995	9.49336e-06	0.999960
rad61	1.18031e-06	0.999996	8.53771e-06	0.999968
rad55	1.14470e-06	0.999997	8.28013e-06	0.999976
rad13	1.00608e-06	0.999998	7.27747e-06	0.999984
rad25	7.69582e-07	0.999999	5.56674e-06	0.999989
rad10	4.74828e-07	0.999999	3.43465e-06	0.999993
rad42	3.57489e-07	1.000000	2.58588e-06	0.999995
rad43	2.87725e-07	1.000000	2.08125e-06	0.999997
rad5	1.65532e-07	1.000000	1.19737e-06	0.999998
rad33	9.86603e-08	1.000000	7.13656e-07	0.999999
rad41	7.17288e-08	1.000000	5.18847e-07	1.000000
rad2	5.27609e-08	1.000000	3.81644e-07	1.000000
rad1	2.56702e-08	1.000000	1.85684e-07	1.000000
rad14	1.18951e-08	1.000000	8.60427e-08	1.000000
rad27	4.11580e-09	1.000000	2.97715e-08	1.000000
rad3	2.81715e-09	1.000000	2.03777e-08	1.000000
rad4	1.64866e-09	1.000000	1.19255e-08	1.000000

10000000.0 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.58309e-12 (1.00)	2.33642e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.852414	0.852414	0.000000	0.000000
PhCH2CCH+H	0.0746978	0.927112	0.506130	0.506130
Indene+H	0.0219818	0.949094	0.148942	0.655072
PhCHCCH2+H	0.0202302	0.969324	0.137074	0.792146
Ph+Allene	0.0145745	0.983898	0.0987526	0.890899
PAH3+H	0.00276545	0.986664	0.0187379	0.909636
PAH7+H	0.00128120	0.987945	0.00868103	0.918318
rad50	0.00118517	0.989130	0.00803035	0.926348
PAH9+H	0.00112551	0.990256	0.00762612	0.933974
rad39	0.00102183	0.991277	0.00692364	0.940898
rad51	0.000975494	0.992253	0.00660965	0.947507
rad71	0.000841182	0.993094	0.00569959	0.953207
rad38	0.000734199	0.993828	0.00497471	0.958182
rad19anti	0.000582787	0.994411	0.00394879	0.962130
Ph+MeAc	0.000542884	0.994954	0.00367842	0.965809
PhCCH+CH3	0.000510411	0.995464	0.00345839	0.969267
rad30	0.000452601	0.995917	0.00306669	0.972334
rad20	0.000444034	0.996361	0.00300864	0.975343
rad46	0.000340916	0.996702	0.00230995	0.977652
rad35	0.000334852	0.997037	0.00226886	0.979921
rad73	0.000262107	0.997299	0.00177596	0.981697
rad59	0.000204095	0.997503	0.00138289	0.983080
rad21	0.000186370	0.997689	0.00126279	0.984343
rad67	0.000184264	0.997874	0.00124852	0.985591
rad52	0.000163832	0.998037	0.00111008	0.986702
rad72	0.000162996	0.998200	0.00110441	0.987806
rad9	0.000157502	0.998358	0.00106718	0.988873
PhCCCH3+H	0.000154686	0.998513	0.00104811	0.989921
rad23	0.000146671	0.998659	0.000993799	0.990915
rad22	0.000130855	0.998790	0.000886635	0.991802
rad6	0.000127078	0.998917	0.000861039	0.992663
PAH10+CH3	0.000118357	0.999036	0.000801954	0.993465
rad11	0.000104650	0.999140	0.000709077	0.994174
rad60syn	0.000104207	0.999244	0.000706077	0.994880
PAH1+H	0.000103596	0.999348	0.000701938	0.995582
rad19syn	9.44729e-05	0.999443	0.000640120	0.996222
rad45	8.89865e-05	0.999532	0.000602946	0.996825
rad60anti	7.63616e-05	0.999608	0.000517403	0.997342
rad58	5.82572e-05	0.999666	0.000394733	0.997737
rad18	5.34720e-05	0.999720	0.000362310	0.998099

PhcycC3H3_A+H	5.00646e-05	0.999770	0.000339222	0.998439
PAH8+H	2.74718e-05	0.999797	0.000186141	0.998625
rad47	2.47086e-05	0.999822	0.000167418	0.998792
rad70	2.45811e-05	0.999846	0.000166554	0.998959
rad8	2.40762e-05	0.999871	0.000163133	0.999122
rad65	2.20867e-05	0.999893	0.000149653	0.999271
rad36	1.60880e-05	0.999909	0.000109008	0.999380
rad15	1.41041e-05	0.999923	9.55651e-05	0.999476
rad37	1.10790e-05	0.999934	7.50681e-05	0.999551
rad34	1.03601e-05	0.999944	7.01971e-05	0.999621
rad54	9.61564e-06	0.999954	6.51527e-05	0.999686
rad24	7.21391e-06	0.999961	4.88793e-05	0.999735
rad12	5.71668e-06	0.999967	3.87345e-05	0.999774
rad28	5.41126e-06	0.999972	3.66651e-05	0.999811
rad7	4.95391e-06	0.999977	3.35662e-05	0.999844
rad68syn	3.08711e-06	0.999980	2.09173e-05	0.999865
rad64	3.03761e-06	0.999983	2.05819e-05	0.999886
rad56	2.11079e-06	0.999985	1.43021e-05	0.999900
rad40syn	2.04766e-06	0.999987	1.38743e-05	0.999914
rad68anti	1.96416e-06	0.999989	1.33085e-05	0.999927
rad40anti	1.57553e-06	0.999991	1.06753e-05	0.999938
rad26	1.37166e-06	0.999992	9.29396e-06	0.999947
rad62	1.32326e-06	0.999994	8.96600e-06	0.999956
rad53	1.23306e-06	0.999995	8.35487e-06	0.999965
rad61	1.12288e-06	0.999996	7.60830e-06	0.999972
rad55	1.12025e-06	0.999997	7.59047e-06	0.999980
rad13	8.55984e-07	0.999998	5.79989e-06	0.999986
rad25	6.64706e-07	0.999999	4.50385e-06	0.999990
rad10	4.85377e-07	0.999999	3.28877e-06	0.999993
rad42	3.14122e-07	0.999999	2.12839e-06	0.999995
rad43	3.04865e-07	1.000000	2.06567e-06	0.999998
rad5	1.79965e-07	1.000000	1.21939e-06	0.999999
rad33	8.76287e-08	1.000000	5.93746e-07	0.999999
rad41	7.33374e-08	1.000000	4.96912e-07	1.000000
rad2	5.23945e-08	1.000000	3.55010e-07	1.000000
rad1	2.59607e-08	1.000000	1.75902e-07	1.000000
rad14	1.10655e-08	1.000000	7.49766e-08	1.000000
rad27	4.30655e-09	1.000000	2.91799e-08	1.000000
rad3	2.43846e-09	1.000000	1.65223e-08	1.000000
rad4	1.41870e-09	1.000000	9.61268e-09	1.000000

10000000.0 Pa, 3500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.10046e-12 (1.00)	3.33994e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.840990	0.840990	0.00000	0.00000
PhCH2CCH+H	0.0863541	0.927344	0.543073	0.543073
PhCHCCH2+H	0.0223229	0.949667	0.140386	0.683459
Indene+H	0.0191495	0.968817	0.120429	0.803888
Ph+Allene	0.0160151	0.984832	0.100717	0.904605
PAH3+H	0.00295304	0.987785	0.0185714	0.923176
PAH7+H	0.00125151	0.989036	0.00787063	0.931047
rad50	0.00103278	0.990069	0.00649503	0.937542
PAH9+H	0.000988951	0.991058	0.00621942	0.943761
rad39	0.000892489	0.991950	0.00561278	0.949374
rad51	0.000841773	0.992792	0.00529383	0.954668
rad71	0.000715665	0.993508	0.00450075	0.959169
rad38	0.000649504	0.994157	0.00408467	0.963254
rad19anti	0.000621158	0.994778	0.00390641	0.967160
Ph+MeAc	0.000587211	0.995366	0.00369291	0.970853
PhCCH+CH3	0.000567243	0.995933	0.00356734	0.974420
rad30	0.000434788	0.996368	0.00273434	0.977155
rad35	0.000332744	0.996700	0.00209260	0.979247
rad20	0.000320174	0.997021	0.00201354	0.981261
rad46	0.000300897	0.997322	0.00189231	0.983153
rad73	0.000223797	0.997545	0.00140744	0.984560
rad59	0.000214801	0.997760	0.00135086	0.985911
rad67	0.000196929	0.997957	0.00123847	0.987150
PhCCCH3+H	0.000171940	0.998129	0.00108132	0.988231
rad52	0.000142051	0.998271	0.000893348	0.989124
rad72	0.000137934	0.998409	0.000867456	0.989992
rad9	0.000136021	0.998545	0.000855421	0.990847
rad21	0.000133378	0.998678	0.000838802	0.991686
PAH10+CH3	0.000120374	0.998799	0.000757020	0.992443
rad23	0.000113841	0.998913	0.000715936	0.993159
rad19syn	0.000113270	0.999026	0.000712346	0.993871

rad60syn	0.000106405	0.999132	0.000669170	0.994541
PAH1+H	9.74217e-05	0.999230	0.000612676	0.995153
rad6	9.33349e-05	0.999323	0.000586975	0.995740
rad22	8.44992e-05	0.999408	0.000531408	0.996272
rad60anti	7.83449e-05	0.999486	0.000492704	0.996764
rad11	7.82084e-05	0.999564	0.000491845	0.997256
rad45	7.25770e-05	0.999637	0.000456430	0.997713
rad58	6.43560e-05	0.999701	0.000404729	0.998117
PhcycC3H3_A+H	4.73346e-05	0.999748	0.000297683	0.998415
rad18	3.50574e-05	0.999783	0.000220472	0.998635
PAH8+H	2.81027e-05	0.999812	0.000176736	0.998812
rad70	2.66383e-05	0.999838	0.000167526	0.998980
rad8	2.29963e-05	0.999861	0.000144622	0.999124
rad47	2.01911e-05	0.999881	0.000126980	0.999251
rad65	1.88133e-05	0.999900	0.000118315	0.999370
rad36	1.31402e-05	0.999913	8.26376e-05	0.999452
rad15	1.23979e-05	0.999926	7.79693e-05	0.999530
rad37	1.14969e-05	0.999937	7.23027e-05	0.999603
rad34	1.12128e-05	0.999948	7.05164e-05	0.999673
rad54	9.69619e-06	0.999958	6.09784e-05	0.999734
rad24	5.64528e-06	0.999964	3.55026e-05	0.999770
rad12	5.45345e-06	0.999969	3.42962e-05	0.999804
rad28	4.29955e-06	0.999973	2.70395e-05	0.999831
rad7	4.03960e-06	0.999978	2.54047e-05	0.999856
rad68syn	3.26876e-06	0.999981	2.05569e-05	0.999877
rad64	2.84122e-06	0.999984	1.78681e-05	0.999895
rad40syn	2.12990e-06	0.999986	1.33947e-05	0.999908
rad68anti	2.08023e-06	0.999988	1.30824e-05	0.999921
rad56	2.05669e-06	0.999990	1.29343e-05	0.999934
rad40anti	1.62898e-06	0.999992	1.02445e-05	0.999944
rad62	1.24857e-06	0.999993	7.85213e-06	0.999952
rad26	1.22011e-06	0.999994	7.67314e-06	0.999960
rad53	1.21574e-06	0.999995	7.64568e-06	0.999968
rad55	1.12742e-06	0.999996	7.09026e-06	0.999975
rad61	1.10727e-06	0.999997	6.96353e-06	0.999982
rad13	6.96845e-07	0.999998	4.38240e-06	0.999986
rad25	5.72756e-07	0.999999	3.60201e-06	0.999990
rad10	4.67954e-07	0.999999	2.94292e-06	0.999993
rad43	3.34613e-07	1.000000	2.10435e-06	0.999995
rad42	2.90046e-07	1.000000	1.82407e-06	0.999996
rad5	1.90449e-07	1.000000	1.19772e-06	0.999998
rad41	7.90790e-08	1.000000	4.97321e-07	0.999998
rad33	7.44802e-08	1.000000	4.68399e-07	0.999999
rad2	4.93913e-08	1.000000	3.10617e-07	0.999999
rad1	2.47689e-08	1.000000	1.55769e-07	0.999999
rad14	1.03334e-08	1.000000	6.49856e-08	0.999999
rad27	4.32461e-09	1.000000	2.71971e-08	0.999999
rad3	2.02749e-09	1.000000	1.27507e-08	0.999999
rad4	1.17442e-09	1.000000	7.38584e-09	0.999999

10000000.0 Pa, 3750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.70978e-12 (1.00)	4.64987e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.828404	0.828404	0.00000	0.00000
PhCH2CCH+H	0.0980949	0.926499	0.571662	0.571662
PhCHCCH2+H	0.0246122	0.951111	0.143431	0.715093
Ph+Allene	0.0175882	0.968699	0.102498	0.817591
Indene+H	0.0167268	0.985426	0.0974780	0.915069
PAH3+H	0.00315370	0.988580	0.0183786	0.933448
PAH7+H	0.00124355	0.989823	0.00724698	0.940695
rad50	0.000909739	0.990733	0.00530163	0.945996
PAH9+H	0.000878144	0.991611	0.00511751	0.951114
rad39	0.000788815	0.992400	0.00459693	0.955711
rad51	0.000733741	0.993134	0.00427598	0.959987
PhCCH+CH3	0.000653226	0.993787	0.00380677	0.963793
rad19anti	0.000638743	0.994426	0.00372237	0.967516
Ph+MeAc	0.000629508	0.995055	0.00366855	0.971184
rad71	0.000613950	0.995669	0.00357788	0.974762
rad38	0.000577722	0.996247	0.00336676	0.978129
rad30	0.000415542	0.996662	0.00242163	0.980551
rad35	0.000332892	0.996995	0.00193998	0.982491
rad46	0.000267640	0.997263	0.00155971	0.984050
rad20	0.000238359	0.997501	0.00138907	0.985439
rad59	0.000225406	0.997727	0.00131358	0.986753
rad67	0.000208342	0.997935	0.00121414	0.987967

rad73	0.000192896	0.998128	0.00112413	0.989091
PhCCCH3+H	0.000192490	0.998321	0.00112176	0.990213
rad19syn	0.000138552	0.998459	0.000807431	0.991020
rad52	0.000124384	0.998583	0.000724863	0.991745
PAH10+CH3	0.000123877	0.998707	0.000721909	0.992467
rad72	0.000117440	0.998825	0.000684397	0.993152
rad9	0.000112411	0.998937	0.000655090	0.993807
rad60syn	0.000108096	0.999045	0.000629947	0.994437
rad21	9.78275e-05	0.999143	0.000570104	0.995007
PAH1+H	9.56736e-05	0.999239	0.000557552	0.995564
rad23	8.76059e-05	0.999326	0.000510536	0.996075
rad60anti	7.99946e-05	0.999406	0.000466180	0.996541
rad58	7.19382e-05	0.999478	0.000419230	0.996960
rad6	6.70439e-05	0.999545	0.000390708	0.997351
rad11	5.98648e-05	0.999605	0.000348871	0.997700
rad45	5.87335e-05	0.999664	0.000342278	0.998042
rad22	5.60900e-05	0.999720	0.000326872	0.998369
PhcycC3H3_A+H	4.60513e-05	0.999766	0.000268373	0.998637
PAH8+H	3.12862e-05	0.999797	0.000182325	0.998820
rad70	2.95166e-05	0.999827	0.000172012	0.998992
rad18	2.36536e-05	0.999851	0.000137845	0.999129
rad8	2.16437e-05	0.999872	0.000126132	0.999256
rad47	1.67494e-05	0.999889	9.76096e-05	0.999353
rad65	1.63263e-05	0.999905	9.51441e-05	0.999448
rad34	1.25290e-05	0.999918	7.30143e-05	0.999521
rad37	1.17488e-05	0.999930	6.84679e-05	0.999590
rad36	1.06438e-05	0.999940	6.20281e-05	0.999652
rad15	1.04107e-05	0.999951	6.06697e-05	0.999713
rad54	9.92874e-06	0.999961	5.78612e-05	0.999770
rad12	4.96314e-06	0.999965	2.89234e-05	0.999799
rad24	4.46223e-06	0.999970	2.60043e-05	0.999825
rad68syn	3.68103e-06	0.999974	2.14517e-05	0.999847
rad28	3.35506e-06	0.999977	1.95521e-05	0.999866
rad7	3.17113e-06	0.999980	1.84802e-05	0.999885
rad64	2.78240e-06	0.999983	1.62148e-05	0.999901
rad40syn	2.38686e-06	0.999985	1.39098e-05	0.999915
rad68anti	2.34261e-06	0.999988	1.36519e-05	0.999929
rad56	2.12035e-06	0.999990	1.23567e-05	0.999941
rad40anti	1.82132e-06	0.999992	1.06140e-05	0.999952
rad53	1.25635e-06	0.999993	7.32156e-06	0.999959
rad62	1.24205e-06	0.999994	7.23822e-06	0.999966
rad55	1.15936e-06	0.999995	6.75632e-06	0.999973
rad61	1.12709e-06	0.999996	6.56830e-06	0.999979
rad26	1.03591e-06	0.999997	6.03689e-06	0.999985
rad13	5.51528e-07	0.999998	3.21411e-06	0.999989
rad25	4.94202e-07	0.999998	2.88003e-06	0.999992
rad10	4.29387e-07	0.999999	2.50232e-06	0.999994
rad43	3.72425e-07	0.999999	2.17036e-06	0.999996
rad42	2.84604e-07	1.000000	1.65857e-06	0.999998
rad5	1.96096e-07	1.000000	1.14278e-06	0.999999
rad41	8.82598e-08	1.000000	5.14347e-07	1.000000
rad33	6.14645e-08	1.000000	3.58193e-07	1.000000
rad2	4.49154e-08	1.000000	2.61751e-07	1.000000
rad1	2.25354e-08	1.000000	1.31328e-07	1.000000
rad14	9.63746e-09	1.000000	5.61637e-08	1.000000
rad27	4.17595e-09	1.000000	2.43360e-08	1.000000
rad3	1.64576e-09	1.000000	9.59092e-09	1.000000
rad4	9.50352e-10	1.000000	5.53831e-09	1.000000

10000000.0 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.30803e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.815283	0.815283	0.00000	0.00000
PhCH2CCH+H	0.109636	0.924919	0.593539	0.593539
PhCHCCH2+H	0.0269891	0.951908	0.146111	0.739650
Ph+Allene	0.0192405	0.971149	0.104162	0.843812
Indene+H	0.0146481	0.985797	0.0793006	0.923113
PAH3+H	0.00334009	0.989137	0.0180822	0.941195
PAH7+H	0.00124742	0.990384	0.00675315	0.947948
rad50	0.000810634	0.991195	0.00438853	0.952336
PAH9+H	0.000785876	0.991981	0.00425450	0.956591
PhCCH+CH3	0.000766519	0.992747	0.00414970	0.960741
rad39	0.000706394	0.993454	0.00382421	0.964565
Ph+MeAc	0.000665569	0.994119	0.00360319	0.968168
rad51	0.000647431	0.994767	0.00350500	0.971673

rad19anti	0.000637022	0.995404	0.00344864	0.975122
rad71	0.000534484	0.995938	0.00289354	0.978015
rad38	0.000515691	0.996454	0.00279179	0.980807
rad30	0.000395172	0.996849	0.00213934	0.982946
rad35	0.000333071	0.997182	0.00180314	0.984750
rad46	0.000239567	0.997422	0.00129694	0.986046
rad59	0.000234436	0.997656	0.00126917	0.987316
rad67	0.000217443	0.997874	0.00117717	0.988493
PhCCCH3+H	0.000215641	0.998089	0.00116742	0.989660
rad20	0.000182438	0.998272	0.000987663	0.990648
rad73	0.000168772	0.998440	0.000913681	0.991562
rad19syn	0.000168708	0.998609	0.000913334	0.992475
PAH10+CH3	0.000127848	0.998737	0.000692133	0.993167
rad52	0.000110116	0.998847	0.000596133	0.993763
rad60syn	0.000108932	0.998956	0.000589724	0.994353
rad72	0.000101348	0.999057	0.000548668	0.994902
PAH1+H	9.73456e-05	0.999155	0.000527000	0.995429
rad9	9.000131e-05	0.999245	0.000487575	0.995916
rad60anti	8.10130e-05	0.999326	0.000438580	0.996355
rad58	7.99581e-05	0.999406	0.000432869	0.996788
rad21	7.34090e-05	0.999479	0.000397415	0.997185
rad23	6.71738e-05	0.999546	0.000363659	0.997549
rad6	4.77910e-05	0.999594	0.000258726	0.997807
rad45	4.72149e-05	0.999641	0.000255607	0.998063
rad11	4.69459e-05	0.999688	0.000254151	0.998317
PhcycC3H3_A+H	4.60266e-05	0.999734	0.000249174	0.998566
rad22	3.83566e-05	0.999773	0.000207651	0.998774
PAH8+H	3.69108e-05	0.999810	0.000199824	0.998974
rad70	3.29190e-05	0.999842	0.000178213	0.999152
rad8	2.00946e-05	0.999863	0.000108786	0.999261
rad18	1.64052e-05	0.999879	8.88126e-05	0.999350
rad65	1.44688e-05	0.999893	7.83298e-05	0.999428
rad34	1.41778e-05	0.999908	7.67541e-05	0.999505
rad47	1.41381e-05	0.999922	7.65393e-05	0.999581
rad37	1.17830e-05	0.999934	6.37897e-05	0.999645
rad54	1.02500e-05	0.999944	5.54906e-05	0.999701
rad36	8.55996e-06	0.999952	4.63410e-05	0.999747
rad15	8.45351e-06	0.999961	4.57648e-05	0.999793
rad12	4.35793e-06	0.999965	2.35925e-05	0.999816
rad68syn	4.29239e-06	0.999969	2.32377e-05	0.999839
rad24	3.55714e-06	0.999973	1.92573e-05	0.999859
rad64	2.83010e-06	0.999976	1.53213e-05	0.999874
rad40syn	2.80404e-06	0.999979	1.51803e-05	0.999889
rad68anti	2.73118e-06	0.999981	1.47858e-05	0.999904
rad28	2.59623e-06	0.999984	1.40552e-05	0.999918
rad7	2.43276e-06	0.999986	1.31702e-05	0.999931
rad56	2.28251e-06	0.999989	1.23568e-05	0.999944
rad40anti	2.14312e-06	0.999991	1.16022e-05	0.999955
rad53	1.34312e-06	0.999992	7.27126e-06	0.999962
rad62	1.29264e-06	0.999993	6.99798e-06	0.999969
rad55	1.20734e-06	0.999995	6.53617e-06	0.999976
rad61	1.17444e-06	0.999996	6.35808e-06	0.999982
rad26	8.49839e-07	0.999997	4.60077e-06	0.999987
rad13	4.30206e-07	0.999997	2.32901e-06	0.999989
rad25	4.27630e-07	0.999998	2.31506e-06	0.999992
rad43	4.14150e-07	0.999998	2.24208e-06	0.999994
rad10	3.79921e-07	0.999998	2.05678e-06	0.999996
rad42	2.95841e-07	0.999999	1.60159e-06	0.999997
rad5	1.97284e-07	0.999999	1.06803e-06	0.999999
rad41	1.00025e-07	0.999999	5.41507e-07	0.999999
rad33	4.98921e-08	0.999999	2.70101e-07	0.999999
rad2	4.00044e-08	0.999999	2.16572e-07	1.000000
rad1	1.97879e-08	0.999999	1.07126e-07	1.000000
rad14	8.96221e-09	0.999999	4.85187e-08	1.000000
rad27	3.90758e-09	0.999999	2.11545e-08	1.000000
rad3	1.32277e-09	0.999999	7.16106e-09	1.000000
rad4	7.62078e-10	0.999999	4.12566e-09	1.000000

1000000.00 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999585	0.999585	0.999585	0.999585
rad21	0.000363792	0.999949	0.000363792	0.999949
rad18	5.08516e-05	1.000000	5.08516e-05	1.000000
rad22	3.99833e-08	1.000000	3.99833e-08	1.000000

rad24	1.38648e-09	1.000000	1.38648e-09	1.000000
Indene+H	1.18813e-09	1.000000	1.18813e-09	1.000000
Benzyl+C2H2	8.63662e-11	1.000000	0.000000	1.000000
rad45	8.18467e-11	1.000000	8.18467e-11	1.000000
rad36	9.43727e-12	1.000000	9.43727e-12	1.000000
rad11	4.09876e-12	1.000000	4.09876e-12	1.000000
rad23	3.65210e-15	1.000000	3.65210e-15	1.000000
rad6	4.56020e-19	1.000000	4.56020e-19	1.000000
rad30	4.06771e-23	1.000000	4.06771e-23	1.000000
rad15	8.38426e-26	1.000000	8.38426e-26	1.000000
rad13	1.79591e-28	1.000000	1.79591e-28	1.000000
rad7	3.42717e-29	1.000000	3.42717e-29	1.000000
rad25	5.09666e-30	1.000000	5.09666e-30	1.000000
rad38	6.07207e-31	1.000000	6.07207e-31	1.000000
rad33	2.69791e-31	1.000000	2.69791e-31	1.000000
rad8	9.90229e-33	1.000000	9.90229e-33	1.000000
rad35	3.70710e-34	1.000000	3.70710e-34	1.000000
PAH9+H	1.65976e-34	1.000000	1.65976e-34	1.000000
PhCHCCH2+H	5.88620e-35	1.000000	5.88620e-35	1.000000
rad9	2.03301e-37	1.000000	2.03301e-37	1.000000
rad46	1.49819e-37	1.000000	1.49819e-37	1.000000
rad60syn	1.15671e-37	1.000000	1.15671e-37	1.000000
rad3	6.05412e-38	1.000000	6.05412e-38	1.000000
rad4	4.08254e-38	1.000000	4.08254e-38	1.000000
rad28	1.05132e-38	1.000000	1.05132e-38	1.000000
rad60anti	5.34539e-39	1.000000	5.34539e-39	1.000000
Ph+Allene	1.25718e-40	1.000000	1.25718e-40	1.000000
PhCH2CCH+H	8.13041e-43	1.000000	8.13041e-43	1.000000
PAH7+H	7.36784e-43	1.000000	7.36784e-43	1.000000
PAH3+H	5.13084e-46	1.000000	5.13084e-46	1.000000
rad2	4.27045e-46	1.000000	4.27045e-46	1.000000
rad59	2.51858e-46	1.000000	2.51858e-46	1.000000
rad31	1.72898e-46	1.000000	1.72898e-46	1.000000
rad26	8.04170e-47	1.000000	8.04170e-47	1.000000
rad1	6.39430e-47	1.000000	6.39430e-47	1.000000
PhCCH+CH3	1.46386e-51	1.000000	1.46386e-51	1.000000
rad14	1.18987e-51	1.000000	1.18987e-51	1.000000
rad39	9.86040e-52	1.000000	9.86040e-52	1.000000
rad50	3.65523e-52	1.000000	3.65523e-52	1.000000
rad10	4.92121e-54	1.000000	4.92121e-54	1.000000
rad12	2.63816e-57	1.000000	2.63816e-57	1.000000
Ph+MeAc	7.90534e-58	1.000000	7.90534e-58	1.000000
rad27	1.44620e-58	1.000000	1.44620e-58	1.000000
rad37	5.86787e-59	1.000000	5.86787e-59	1.000000
rad52	3.01088e-60	1.000000	3.01088e-60	1.000000
PhCCCH3+H	2.51609e-60	1.000000	2.51609e-60	1.000000
rad58	9.77452e-65	1.000000	9.77452e-65	1.000000
rad51	8.23348e-65	1.000000	8.23348e-65	1.000000
rad19syn	4.88233e-68	1.000000	4.88233e-68	1.000000
rad54	5.67455e-69	1.000000	5.67455e-69	1.000000
rad70	4.55875e-69	1.000000	4.55875e-69	1.000000
PAH10+CH3	8.54552e-70	1.000000	8.54552e-70	1.000000
rad5	3.69079e-71	1.000000	3.69079e-71	1.000000
rad47	8.89129e-72	1.000000	8.89129e-72	1.000000
rad65	4.97737e-72	1.000000	4.97737e-72	1.000000
rad34	4.12544e-74	1.000000	4.12544e-74	1.000000
rad55	6.28805e-75	1.000000	6.28805e-75	1.000000
PhcycC3H3_A+H	1.63887e-76	1.000000	1.63887e-76	1.000000
PAH1+H	1.17286e-76	1.000000	1.17286e-76	1.000000
rad62	5.12821e-79	1.000000	5.12821e-79	1.000000
rad43	4.42263e-83	1.000000	4.42263e-83	1.000000
rad42	1.25752e-88	1.000000	1.25752e-88	1.000000
rad41	1.59722e-93	1.000000	1.59722e-93	1.000000

1000000.00 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15918e-108 (1.00)	1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.999161	0.999161	0.999161	0.999161
rad21	0.000735737	0.999897	0.000735737	0.999897
rad18	0.000102969	1.000000	0.000102969	1.000000
rad22	1.63780e-07	1.000000	1.63780e-07	1.000000
rad24	5.35019e-09	1.000000	5.35019e-09	1.000000
Indene+H	4.87292e-09	1.000000	4.87292e-09	1.000000
rad45	6.61967e-10	1.000000	6.61967e-10	1.000000
Benzyl+C2H2	2.02070e-10	1.000000	0.000000	1.000000

rad36	6.56881e-11	1.000000	6.56881e-11	1.000000
rad11	1.71237e-11	1.000000	1.71237e-11	1.000000
rad23	3.26664e-14	1.000000	3.26664e-14	1.000000
rad6	3.90421e-18	1.000000	3.90421e-18	1.000000
rad30	1.95936e-22	1.000000	1.95936e-22	1.000000
rad15	4.12440e-25	1.000000	4.12440e-25	1.000000
rad13	3.21330e-27	1.000000	3.21330e-27	1.000000
rad7	6.15664e-28	1.000000	6.15664e-28	1.000000
rad25	5.03224e-29	1.000000	5.03224e-29	1.000000
rad38	1.25440e-29	1.000000	1.25440e-29	1.000000
rad33	4.89982e-30	1.000000	4.89982e-30	1.000000
rad8	2.67666e-32	1.000000	2.67666e-32	1.000000
rad35	7.14232e-33	1.000000	7.14232e-33	1.000000
PAH9+H	3.25320e-33	1.000000	3.25320e-33	1.000000
PhCHCCH2+H	6.09702e-34	1.000000	6.09702e-34	1.000000
rad46	2.82622e-36	1.000000	2.82622e-36	1.000000
rad3	2.35926e-36	1.000000	2.35926e-36	1.000000
rad9	2.13808e-36	1.000000	2.13808e-36	1.000000
rad4	1.51406e-36	1.000000	1.51406e-36	1.000000
rad60syn	6.21819e-37	1.000000	6.21819e-37	1.000000
rad28	1.00544e-37	1.000000	1.00544e-37	1.000000
rad60anti	2.90046e-38	1.000000	2.90046e-38	1.000000
Ph+Allene	1.37451e-39	1.000000	1.37451e-39	1.000000
PAH7+H	7.00769e-42	1.000000	7.00769e-42	1.000000
PhCH2CCH+H	2.37120e-42	1.000000	2.37120e-42	1.000000
rad2	3.71145e-44	1.000000	3.71145e-44	1.000000
rad31	5.65644e-45	1.000000	5.65644e-45	1.000000
rad1	4.72069e-45	1.000000	4.72069e-45	1.000000
PAH3+H	2.93744e-45	1.000000	2.93744e-45	1.000000
rad59	1.44052e-45	1.000000	1.44052e-45	1.000000
rad26	7.59716e-46	1.000000	7.59716e-46	1.000000
PhCCH+CH3	1.25718e-49	1.000000	1.25718e-49	1.000000
rad14	9.32897e-50	1.000000	9.32897e-50	1.000000
rad39	1.88861e-50	1.000000	1.88861e-50	1.000000
rad50	7.11509e-51	1.000000	7.11509e-51	1.000000
rad10	3.35092e-52	1.000000	3.35092e-52	1.000000
Ph+MeAc	7.74461e-56	1.000000	7.74461e-56	1.000000
rad12	5.00050e-56	1.000000	5.00050e-56	1.000000
rad27	2.60990e-56	1.000000	2.60990e-56	1.000000
rad37	1.11152e-57	1.000000	1.11152e-57	1.000000
PhCCCH3+H	4.97219e-58	1.000000	4.97219e-58	1.000000
rad52	6.24057e-59	1.000000	6.24057e-59	1.000000
rad51	1.68287e-63	1.000000	1.68287e-63	1.000000
rad58	6.21239e-64	1.000000	6.21239e-64	1.000000
rad19syn	2.41885e-66	1.000000	2.41885e-66	1.000000
rad54	2.78640e-67	1.000000	2.78640e-67	1.000000
rad70	1.16242e-67	1.000000	1.16242e-67	1.000000
PAH10+CH3	1.56486e-68	1.000000	1.56486e-68	1.000000
rad5	7.81729e-69	1.000000	7.81729e-69	1.000000
rad47	1.68238e-70	1.000000	1.68238e-70	1.000000
rad65	1.44938e-70	1.000000	1.44938e-70	1.000000
rad34	1.07248e-72	1.000000	1.07248e-72	1.000000
rad55	3.14152e-73	1.000000	3.14152e-73	1.000000
PhcycC3H3_A+H	8.51314e-75	1.000000	8.51314e-75	1.000000
PAH1+H	2.06655e-75	1.000000	2.06655e-75	1.000000
rad62	9.94110e-77	1.000000	9.94110e-77	1.000000
rad43	1.78598e-80	1.000000	1.78598e-80	1.000000
rad42	2.52401e-86	1.000000	2.52401e-86	1.000000
rad41	4.13244e-91	1.000000	4.13244e-91	1.000000

1000000.00 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.998744	0.998744	0.998744	0.998744
rad21	0.00110150	0.999845	0.00110150	0.999845
rad18	0.000154473	1.000000	0.000154473	1.000000
rad22	3.67903e-07	1.000000	3.67903e-07	1.000000
rad24	1.14009e-08	1.000000	1.14009e-08	1.000000
Indene+H	1.09699e-08	1.000000	1.09699e-08	1.000000
rad45	2.16436e-09	1.000000	2.16436e-09	1.000000
Benzyl+C2H2	3.92484e-10	1.000000	0.000000	1.000000
rad36	1.98850e-10	1.000000	1.98850e-10	1.000000
rad11	4.00013e-11	1.000000	4.00013e-11	1.000000
rad23	1.17581e-13	1.000000	1.17581e-13	1.000000
rad6	1.40138e-17	1.000000	1.40138e-17	1.000000

rad30	6.12281e-22	1.00000	6.12281e-22	1.00000
rad15	1.34768e-24	1.00000	1.34768e-24	1.00000
rad13	1.78200e-26	1.00000	1.78200e-26	1.00000
rad7	3.43370e-27	1.00000	3.43370e-27	1.00000
rad25	2.42484e-28	1.00000	2.42484e-28	1.00000
rad38	8.39297e-29	1.00000	8.39297e-29	1.00000
rad33	2.77837e-29	1.00000	2.77837e-29	1.00000
rad8	7.34056e-32	1.00000	7.34056e-32	1.00000
rad35	4.53974e-32	1.00000	4.53974e-32	1.00000
PAH9+H	2.13286e-32	1.00000	2.13286e-32	1.00000
PhCHCCH2+H	3.25808e-33	1.00000	3.25808e-33	1.00000
rad3	2.16786e-35	1.00000	2.16786e-35	1.00000
rad46	2.06780e-35	1.00000	2.06780e-35	1.00000
rad4	1.35558e-35	1.00000	1.35558e-35	1.00000
rad9	1.18963e-35	1.00000	1.18963e-35	1.00000
rad60syn	2.45877e-36	1.00000	2.45877e-36	1.00000
rad28	5.41047e-37	1.00000	5.41047e-37	1.00000
rad60anti	1.17054e-37	1.00000	1.17054e-37	1.00000
Ph+Allene	8.27676e-39	1.00000	8.27676e-39	1.00000
PAH7+H	3.91657e-41	1.00000	3.91657e-41	1.00000
PhCH2CCH+H	7.69048e-42	1.00000	7.69048e-42	1.00000
rad2	5.51918e-43	1.00000	5.51918e-43	1.00000
rad1	6.45430e-44	1.00000	6.45430e-44	1.00000
rad31	4.53790e-44	1.00000	4.53790e-44	1.00000
PAH3+H	1.33643e-44	1.00000	1.33643e-44	1.00000
rad59	6.53927e-45	1.00000	6.53927e-45	1.00000
rad26	4.40761e-45	1.00000	4.40761e-45	1.00000
PhCCH+CH3	2.16113e-48	1.00000	2.16113e-48	1.00000
rad14	1.49250e-48	1.00000	1.49250e-48	1.00000
rad39	1.51741e-49	1.00000	1.51741e-49	1.00000
rad50	6.46925e-50	1.00000	6.46925e-50	1.00000
rad10	6.85663e-51	1.00000	6.85663e-51	1.00000
Ph+MeAc	1.56259e-54	1.00000	1.56259e-54	1.00000
rad27	6.44837e-55	1.00000	6.44837e-55	1.00000
rad12	4.29662e-55	1.00000	4.29662e-55	1.00000
PhCCCH3+H	1.36133e-56	1.00000	1.36133e-56	1.00000
rad37	9.58779e-57	1.00000	9.58779e-57	1.00000
rad52	6.39609e-58	1.00000	6.39609e-58	1.00000
rad51	1.83316e-62	1.00000	1.83316e-62	1.00000
rad58	3.65914e-63	1.00000	3.65914e-63	1.00000
rad19syn	4.03362e-65	1.00000	4.03362e-65	1.00000
rad54	4.75314e-66	1.00000	4.75314e-66	1.00000
rad70	1.50100e-66	1.00000	1.50100e-66	1.00000
rad5	2.67842e-67	1.00000	2.67842e-67	1.00000
PAH10+CH3	1.50537e-67	1.00000	1.50537e-67	1.00000
rad65	1.98764e-69	1.00000	1.98764e-69	1.00000
rad47	1.97106e-69	1.00000	1.97106e-69	1.00000
rad34	1.47811e-71	1.00000	1.47811e-71	1.00000
rad55	5.77385e-72	1.00000	5.77385e-72	1.00000
PhcycC3H3_A+H	1.61892e-73	1.00000	1.61892e-73	1.00000
PAH1+H	2.16032e-74	1.00000	2.16032e-74	1.00000
rad62	3.84948e-75	1.00000	3.84948e-75	1.00000
rad43	1.02639e-78	1.00000	1.02639e-78	1.00000
rad42	1.12848e-84	1.00000	1.12848e-84	1.00000
rad41	2.68841e-89	1.00000	2.68841e-89	1.00000

1000000.00 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.31816e-70 (1.00)	2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.998324	0.998324	0.998324	0.998324
rad21	0.00146911	0.999793	0.00146911	0.999793
rad18	0.000206563	1.000000	0.000206563	1.000000
rad22	6.56293e-07	1.000000	6.56293e-07	1.000000
Indene+H	1.96246e-08	1.000000	1.96246e-08	1.000000
rad24	1.93818e-08	1.000000	1.93818e-08	1.000000
rad45	5.00636e-09	1.000000	5.00636e-09	1.000000
Benzyl+C2H2	7.12115e-10	1.000000	0.000000	1.000000
rad36	4.37683e-10	1.000000	4.37683e-10	1.000000
rad11	7.52158e-11	1.000000	7.52158e-11	1.000000
rad23	2.97717e-13	1.000000	2.97717e-13	1.000000
rad6	3.64386e-17	1.000000	3.64386e-17	1.000000
rad30	1.74181e-21	1.000000	1.74181e-21	1.000000
rad15	4.08846e-24	1.000000	4.08846e-24	1.000000
rad13	6.42590e-26	1.000000	6.42590e-26	1.000000
rad7	1.24754e-26	1.000000	1.24754e-26	1.000000

rad25	9.59946e-28	1.00000	9.59946e-28	1.00000
rad38	3.89988e-28	1.00000	3.89988e-28	1.00000
rad33	1.03224e-28	1.00000	1.03224e-28	1.00000
rad8	2.30888e-31	1.00000	2.30888e-31	1.00000
rad35	1.94945e-31	1.00000	1.94945e-31	1.00000
PAH9+H	9.58264e-32	1.00000	9.58264e-32	1.00000
PhCHCCH2+H	1.49614e-32	1.00000	1.49614e-32	1.00000
rad3	1.19092e-34	1.00000	1.19092e-34	1.00000
rad46	1.16355e-34	1.00000	1.16355e-34	1.00000
rad4	7.32120e-35	1.00000	7.32120e-35	1.00000
rad9	5.79364e-35	1.00000	5.79364e-35	1.00000
rad60syn	9.78812e-36	1.00000	9.78812e-36	1.00000
rad28	2.67103e-36	1.00000	2.67103e-36	1.00000
rad60anti	4.79748e-37	1.00000	4.79748e-37	1.00000
Ph+Allene	4.50951e-38	1.00000	4.50951e-38	1.00000
PAH7+H	2.07792e-40	1.00000	2.07792e-40	1.00000
PhCH2CCH+H	3.06825e-41	1.00000	3.06825e-41	1.00000
rad2	4.46681e-42	1.00000	4.46681e-42	1.00000
rad1	4.94742e-43	1.00000	4.94742e-43	1.00000
rad31	2.26684e-43	1.00000	2.26684e-43	1.00000
PAH3+H	6.50501e-44	1.00000	6.50501e-44	1.00000
rad59	3.17258e-44	1.00000	3.17258e-44	1.00000
rad26	2.50877e-44	1.00000	2.50877e-44	1.00000
PhCCH+CH3	2.20852e-47	1.00000	2.20852e-47	1.00000
rad14	1.41008e-47	1.00000	1.41008e-47	1.00000
rad39	1.00405e-48	1.00000	1.00405e-48	1.00000
rad50	5.25492e-49	1.00000	5.25492e-49	1.00000
rad10	7.69663e-50	1.00000	7.69663e-50	1.00000
Ph+MeAc	1.96431e-53	1.00000	1.96431e-53	1.00000
rad27	8.14184e-54	1.00000	8.14184e-54	1.00000
rad12	3.22180e-54	1.00000	3.22180e-54	1.00000
PhCCCH3+H	1.95371e-55	1.00000	1.95371e-55	1.00000
rad37	7.24245e-56	1.00000	7.24245e-56	1.00000
rad52	6.27176e-57	1.00000	6.27176e-57	1.00000
rad51	2.01910e-61	1.00000	2.01910e-61	1.00000
rad58	2.60147e-62	1.00000	2.60147e-62	1.00000
rad19syn	5.29926e-64	1.00000	5.29926e-64	1.00000
rad54	6.54451e-65	1.00000	6.54451e-65	1.00000
rad70	1.85153e-65	1.00000	1.85153e-65	1.00000
rad5	5.30404e-66	1.00000	5.30404e-66	1.00000
PAH10+CH3	1.40538e-66	1.00000	1.40538e-66	1.00000
rad47	2.56360e-68	1.00000	2.56360e-68	1.00000
rad65	2.55912e-68	1.00000	2.55912e-68	1.00000
rad34	2.01658e-70	1.00000	2.01658e-70	1.00000
rad55	8.95199e-71	1.00000	8.95199e-71	1.00000
PhcycC3H3_A+H	2.58768e-72	1.00000	2.58768e-72	1.00000
PAH1+H	2.38223e-73	1.00000	2.38223e-73	1.00000
rad62	9.75286e-74	1.00000	9.75286e-74	1.00000
rad43	3.38726e-77	1.00000	3.38726e-77	1.00000
rad42	3.58268e-83	1.00000	3.58268e-83	1.00000
rad41	1.15000e-87	1.00000	1.15000e-87	1.00000

1000000.00 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.44107e-61 (1.00)	8.44107e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.997895	0.997895	0.997895	0.997895
rad21	0.00184357	0.999739	0.00184357	0.999739
rad18	0.000259993	0.999999	0.000259993	0.999999
rad22	1.03714e-06	1.000000	1.03714e-06	1.000000
Indene+H	3.11174e-08	1.000000	3.11174e-08	1.000000
rad24	2.92762e-08	1.000000	2.92762e-08	1.000000
rad45	9.66076e-09	1.000000	9.66076e-09	1.000000
Benzyl+C2H2	1.23229e-09	1.000000	0.000000	1.000000
rad36	8.15053e-10	1.000000	8.15053e-10	1.000000
rad11	1.26490e-10	1.000000	1.26490e-10	1.000000
rad23	6.26090e-13	1.000000	6.26090e-13	1.000000
rad6	8.04657e-17	1.000000	8.04657e-17	1.000000
rad30	4.98336e-21	1.000000	4.98336e-21	1.000000
rad15	1.26903e-23	1.000000	1.26903e-23	1.000000
rad13	1.86984e-25	1.000000	1.86984e-25	1.000000
rad7	3.66420e-26	1.000000	3.66420e-26	1.000000
rad25	3.62799e-27	1.000000	3.62799e-27	1.000000
rad38	1.55584e-27	1.000000	1.55584e-27	1.000000
rad33	3.11742e-28	1.000000	3.11742e-28	1.000000
rad8	8.46592e-31	1.000000	8.46592e-31	1.000000

rad35	6.92680e-31	1.000000	6.92680e-31	1.000000
PAH9+H	3.62313e-31	1.000000	3.62313e-31	1.000000
PhCHCCH2+H	6.79815e-32	1.000000	6.79815e-32	1.000000
rad46	6.10049e-34	1.000000	6.10049e-34	1.000000
rad3	5.13250e-34	1.000000	5.13250e-34	1.000000
rad4	3.11636e-34	1.000000	3.11636e-34	1.000000
rad9	2.82918e-34	1.000000	2.82918e-34	1.000000
rad60syn	4.23354e-35	1.000000	4.23354e-35	1.000000
rad28	1.36651e-35	1.000000	1.36651e-35	1.000000
rad60anti	2.14951e-36	1.000000	2.14951e-36	1.000000
Ph+Allene	2.52371e-37	1.000000	2.52371e-37	1.000000
PAH7+H	1.17120e-39	1.000000	1.17120e-39	1.000000
PhCH2CCH+H	1.49592e-40	1.000000	1.49592e-40	1.000000
rad2	2.75246e-41	1.000000	2.75246e-41	1.000000
rad1	2.93196e-42	1.000000	2.93196e-42	1.000000
rad31	9.15175e-43	1.000000	9.15175e-43	1.000000
PAH3+H	3.59088e-43	1.000000	3.59088e-43	1.000000
rad59	1.74420e-43	1.000000	1.74420e-43	1.000000
rad26	1.55204e-43	1.000000	1.55204e-43	1.000000
PhCCH+CH3	1.83771e-46	1.000000	1.83771e-46	1.000000
rad14	1.07438e-46	1.000000	1.07438e-46	1.000000
rad39	6.52488e-48	1.000000	6.52488e-48	1.000000
rad50	4.46413e-48	1.000000	4.46413e-48	1.000000
rad10	6.48102e-49	1.000000	6.48102e-49	1.000000
Ph+MeAc	2.08784e-52	1.000000	2.08784e-52	1.000000
rad27	7.71020e-53	1.000000	7.71020e-53	1.000000
rad12	2.46909e-53	1.000000	2.46909e-53	1.000000
PhCCCH3+H	2.14933e-54	1.000000	2.14933e-54	1.000000
rad37	5.60605e-55	1.000000	5.60605e-55	1.000000
rad52	6.79867e-56	1.000000	6.79867e-56	1.000000
rad51	2.56295e-60	1.000000	2.56295e-60	1.000000
rad58	2.28321e-61	1.000000	2.28321e-61	1.000000
rad19syn	6.76906e-63	1.000000	6.76906e-63	1.000000
rad54	8.90970e-64	1.000000	8.90970e-64	1.000000
rad70	2.48571e-64	1.000000	2.48571e-64	1.000000
rad5	8.61792e-65	1.000000	8.61792e-65	1.000000
PAH10+CH3	1.44130e-65	1.000000	1.44130e-65	1.000000
rad47	4.11651e-67	1.000000	4.11651e-67	1.000000
rad65	3.63852e-67	1.000000	3.63852e-67	1.000000
rad34	3.06910e-69	1.000000	3.06910e-69	1.000000
rad55	1.41523e-69	1.000000	1.41523e-69	1.000000
PhcycC3H3_A+H	4.20703e-71	1.000000	4.20703e-71	1.000000
PAH1+H	3.05011e-72	1.000000	3.05011e-72	1.000000
rad62	2.19298e-72	1.000000	2.19298e-72	1.000000
rad43	9.26279e-76	1.000000	9.26279e-76	1.000000
rad42	1.06919e-81	1.000000	1.06919e-81	1.000000
rad41	4.39917e-86	1.000000	4.39917e-86	1.000000

1000000.00 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.61998e-54 (1.00)	5.61998e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.997454	0.997454	0.997454	0.997454
rad21	0.00222906	0.999683	0.00222906	0.999683
rad18	0.000315399	0.999998	0.000315399	0.999998
rad22	1.52274e-06	1.000000	1.52274e-06	1.000000
Indene+H	4.58642e-08	1.000000	4.58642e-08	1.000000
rad24	4.11674e-08	1.000000	4.11674e-08	1.000000
rad45	1.67076e-08	1.000000	1.67076e-08	1.000000
Benzyl+C2H2	2.06052e-09	1.000000	0.000000	1.000000
rad36	1.37176e-09	1.000000	1.37176e-09	1.000000
rad11	1.99226e-10	1.000000	1.99226e-10	1.000000
rad23	1.17642e-12	1.000000	1.17642e-12	1.000000
rad6	1.61911e-16	1.000000	1.61911e-16	1.000000
rad30	1.52659e-20	1.000000	1.52659e-20	1.000000
rad15	4.31279e-23	1.000000	4.31279e-23	1.000000
rad13	4.83578e-25	1.000000	4.83578e-25	1.000000
rad7	9.58445e-26	1.000000	9.58445e-26	1.000000
rad25	1.42499e-26	1.000000	1.42499e-26	1.000000
rad38	5.84875e-27	1.000000	5.84875e-27	1.000000
rad33	8.43444e-28	1.000000	8.43444e-28	1.000000
rad8	3.74049e-30	1.000000	3.74049e-30	1.000000
rad35	2.22379e-30	1.000000	2.22379e-30	1.000000
PAH9+H	1.26041e-30	1.000000	1.26041e-30	1.000000
PhCHCCH2+H	3.33001e-31	1.000000	3.33001e-31	1.000000
rad46	3.30038e-33	1.000000	3.30038e-33	1.000000

rad3	1.96600e-33	1.00000	1.96600e-33	1.00000
rad9	1.50601e-33	1.00000	1.50601e-33	1.00000
rad4	1.18235e-33	1.00000	1.18235e-33	1.00000
rad60syn	2.11091e-34	1.00000	2.11091e-34	1.00000
rad28	7.81214e-35	1.00000	7.81214e-35	1.00000
rad60anti	1.11527e-35	1.00000	1.11527e-35	1.00000
Ph+Allene	1.56910e-36	1.00000	1.56910e-36	1.00000
PAH7+H	7.51595e-39	1.00000	7.51595e-39	1.00000
PhCH2CCH+H	9.06649e-40	1.00000	9.06649e-40	1.00000
rad2	1.51318e-40	1.00000	1.51318e-40	1.00000
rad1	1.56459e-41	1.00000	1.56459e-41	1.00000
rad31	3.35922e-42	1.00000	3.35922e-42	1.00000
PAH3+H	2.35668e-42	1.00000	2.35668e-42	1.00000
rad59	1.13932e-42	1.00000	1.13932e-42	1.00000
rad26	1.11122e-42	1.00000	1.11122e-42	1.00000
PhCCH+CH3	1.46164e-45	1.00000	1.46164e-45	1.00000
rad14	7.73374e-46	1.00000	7.73374e-46	1.00000
rad39	4.59490e-47	1.00000	4.59490e-47	1.00000
rad50	4.32823e-47	1.00000	4.32823e-47	1.00000
rad10	4.88473e-48	1.00000	4.88473e-48	1.00000
Ph+MeAc	2.19026e-51	1.00000	2.19026e-51	1.00000
rad27	6.61495e-52	1.00000	6.61495e-52	1.00000
rad12	2.10936e-52	1.00000	2.10936e-52	1.00000
PhCCCH3+H	2.18781e-53	1.00000	2.18781e-53	1.00000
rad37	4.84754e-54	1.00000	4.84754e-54	1.00000
rad52	8.81583e-55	1.00000	8.81583e-55	1.00000
rad51	4.02960e-59	1.00000	4.02960e-59	1.00000
rad58	2.52903e-60	1.00000	2.52903e-60	1.00000
rad19syn	9.36308e-62	1.00000	9.36308e-62	1.00000
rad54	1.32894e-62	1.00000	1.32894e-62	1.00000
rad70	3.88536e-63	1.00000	3.88536e-63	1.00000
rad5	1.36372e-63	1.00000	1.36372e-63	1.00000
PAH10+CH3	1.73276e-64	1.00000	1.73276e-64	1.00000
rad47	8.68409e-66	1.00000	8.68409e-66	1.00000
rad65	6.27037e-66	1.00000	6.27037e-66	1.00000
rad34	5.53217e-68	1.00000	5.53217e-68	1.00000
rad55	2.50477e-68	1.00000	2.50477e-68	1.00000
PhcycC3H3_A+H	7.64489e-70	1.00000	7.64489e-70	1.00000
rad62	5.06594e-71	1.00000	5.06594e-71	1.00000
PAH1+H	4.75383e-71	1.00000	4.75383e-71	1.00000
rad43	2.49594e-74	1.00000	2.49594e-74	1.00000
rad42	3.41550e-80	1.00000	3.41550e-80	1.00000
rad41	1.74625e-84	1.00000	1.74625e-84	1.00000

1000000.00 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.28864e-49 (1.00)	7.28864e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.996995	0.996995	0.996995	0.996995
rad21	0.00262971	0.999625	0.00262971	0.999625
rad18	0.000373431	0.999998	0.000373431	0.999998
rad22	2.13032e-06	1.00000	2.13032e-06	1.00000
Indene+H	6.44490e-08	1.00000	6.44490e-08	1.00000
rad24	5.52344e-08	1.00000	5.52344e-08	1.00000
rad45	2.68988e-08	1.00000	2.68988e-08	1.00000
Benzyl+C2H2	3.36177e-09	1.00000	0.00000	1.00000
rad36	2.16121e-09	1.00000	2.16121e-09	1.00000
rad11	3.01325e-10	1.00000	3.01325e-10	1.00000
rad23	2.05428e-12	1.00000	2.05428e-12	1.00000
rad6	3.08579e-16	1.00000	3.08579e-16	1.00000
rad30	5.21047e-20	1.00000	5.21047e-20	1.00000
rad15	1.71744e-22	1.00000	1.71744e-22	1.00000
rad13	1.17326e-24	1.00000	1.17326e-24	1.00000
rad7	2.35737e-25	1.00000	2.35737e-25	1.00000
rad25	6.20882e-26	1.00000	6.20882e-26	1.00000
rad38	2.16312e-26	1.00000	2.16312e-26	1.00000
rad33	2.16028e-27	1.00000	2.16028e-27	1.00000
rad8	2.14664e-29	1.00000	2.14664e-29	1.00000
rad35	6.76614e-30	1.00000	6.76614e-30	1.00000
PAH9+H	4.21712e-30	1.00000	4.21712e-30	1.00000
PhCHCCH2+H	1.92065e-30	1.00000	1.92065e-30	1.00000
rad46	1.99908e-32	1.00000	1.99908e-32	1.00000
rad9	9.57022e-33	1.00000	9.57022e-33	1.00000
rad3	7.19816e-33	1.00000	7.19816e-33	1.00000
rad4	4.29583e-33	1.00000	4.29583e-33	1.00000
rad60syn	1.32267e-33	1.00000	1.32267e-33	1.00000

rad28	5.45775e-34	1.00000	5.45775e-34	1.00000
rad60anti	7.30015e-35	1.00000	7.30015e-35	1.00000
Ph+Allene	1.18819e-35	1.00000	1.18819e-35	1.00000
PAH7+H	5.99447e-38	1.00000	5.99447e-38	1.00000
PhCH2CCH+H	7.28619e-39	1.00000	7.28619e-39	1.00000
rad2	8.18958e-40	1.00000	8.18958e-40	1.00000
rad1	8.27024e-41	1.00000	8.27024e-41	1.00000
PAH3+H	1.99250e-41	1.00000	1.99250e-41	1.00000
rad31	1.19977e-41	1.00000	1.19977e-41	1.00000
rad26	1.00228e-41	1.00000	1.00228e-41	1.00000
rad59	9.58183e-42	1.00000	9.58183e-42	1.00000
PhCCH+CH3	1.25825e-44	1.00000	1.25825e-44	1.00000
rad14	5.90932e-45	1.00000	5.90932e-45	1.00000
rad50	5.26645e-46	1.00000	5.26645e-46	1.00000
rad39	3.88401e-46	1.00000	3.88401e-46	1.00000
rad10	3.74192e-47	1.00000	3.74192e-47	1.00000
Ph+MeAc	2.58401e-50	1.00000	2.58401e-50	1.00000
rad27	5.87560e-51	1.00000	5.87560e-51	1.00000
rad12	2.21465e-51	1.00000	2.21465e-51	1.00000
PhCCCH3+H	2.37518e-52	1.00000	2.37518e-52	1.00000
rad37	5.16137e-53	1.00000	5.16137e-53	1.00000
rad52	1.50181e-53	1.00000	1.50181e-53	1.00000
rad51	8.60856e-58	1.00000	8.60856e-58	1.00000
rad58	3.77027e-59	1.00000	3.77027e-59	1.00000
rad19syn	1.56384e-60	1.00000	1.56384e-60	1.00000
rad54	2.41435e-61	1.00000	2.41435e-61	1.00000
rad70	7.71204e-62	1.00000	7.71204e-62	1.00000
rad5	2.42070e-62	1.00000	2.42070e-62	1.00000
PAH10+CH3	2.65983e-63	1.00000	2.65983e-63	1.00000
rad47	2.63798e-64	1.00000	2.63798e-64	1.00000
rad65	1.46293e-64	1.00000	1.46293e-64	1.00000
rad34	1.28209e-66	1.00000	1.28209e-66	1.00000
rad55	5.48717e-67	1.00000	5.48717e-67	1.00000
PhcycC3H3_A+H	1.71784e-68	1.00000	1.71784e-68	1.00000
rad62	1.36758e-69	1.00000	1.36758e-69	1.00000
PAH1+H	9.71985e-70	1.00000	9.71985e-70	1.00000
rad43	7.64450e-73	1.00000	7.64450e-73	1.00000
rad42	1.31561e-78	1.00000	1.31561e-78	1.00000
rad41	8.19098e-83	1.00000	8.19098e-83	1.00000

1000000.00 Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.85154e-45 (1.00)	6.85154e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.996512	0.996512	0.996512	0.996512
rad21	0.00304988	0.999562	0.00304988	0.999562
rad18	0.000434788	0.999997	0.000434788	0.999997
rad22	2.88328e-06	1.000000	2.88328e-06	1.000000
Indene+H	8.76694e-08	1.000000	8.76694e-08	1.000000
rad24	7.17518e-08	1.000000	7.17518e-08	1.000000
rad45	4.12411e-08	1.000000	4.12411e-08	1.000000
Benzyl+C2H2	5.38923e-09	1.000000	0.000000	1.000000
rad36	3.25532e-09	1.000000	3.25532e-09	1.000000
rad11	4.44383e-10	1.000000	4.44383e-10	1.000000
rad23	3.41447e-12	1.000000	3.41447e-12	1.000000
rad6	5.70624e-16	1.000000	5.70624e-16	1.000000
rad30	1.94599e-19	1.000000	1.94599e-19	1.000000
rad15	8.29300e-22	1.000000	8.29300e-22	1.000000
rad13	2.76422e-24	1.000000	2.76422e-24	1.000000
rad7	5.64542e-25	1.000000	5.64542e-25	1.000000
rad25	3.08694e-25	1.000000	3.08694e-25	1.000000
rad38	7.96154e-26	1.000000	7.96154e-26	1.000000
rad33	5.42764e-27	1.000000	5.42764e-27	1.000000
rad8	1.83937e-28	1.000000	1.83937e-28	1.000000
rad35	2.01001e-29	1.000000	2.01001e-29	1.000000
PhCHCCH2+H	1.43630e-29	1.000000	1.43630e-29	1.000000
PAH9+H	1.38863e-29	1.000000	1.38863e-29	1.000000
rad46	1.44199e-31	1.000000	1.44199e-31	1.000000
rad9	8.12141e-32	1.000000	8.12141e-32	1.000000
rad3	2.64130e-32	1.000000	2.64130e-32	1.000000
rad4	1.56637e-32	1.000000	1.56637e-32	1.000000
rad60syn	1.19242e-32	1.000000	1.19242e-32	1.000000
rad28	5.27848e-33	1.000000	5.27848e-33	1.000000
rad60anti	6.91303e-34	1.000000	6.91303e-34	1.000000
Ph+Allene	1.24557e-34	1.000000	1.24557e-34	1.000000
PAH7+H	6.77473e-37	1.000000	6.77473e-37	1.000000

PhCH2CCH+H	8.85703e-38	1.000000	8.85703e-38	1.000000
rad2	4.66702e-39	1.000000	4.66702e-39	1.000000
rad1	4.62327e-40	1.000000	4.62327e-40	1.000000
PAH3+H	2.49405e-40	1.000000	2.49405e-40	1.000000
rad26	1.30198e-40	1.000000	1.30198e-40	1.000000
rad59	1.19238e-40	1.000000	1.19238e-40	1.000000
rad31	4.35331e-41	1.000000	4.35331e-41	1.000000
PhCCH+CH3	1.31194e-43	1.000000	1.31194e-43	1.000000
rad14	5.25649e-44	1.000000	5.25649e-44	1.000000
rad50	9.10580e-45	1.000000	9.10580e-45	1.000000
rad39	4.51421e-45	1.000000	4.51421e-45	1.000000
rad10	3.26461e-46	1.000000	3.26461e-46	1.000000
Ph+MeAc	3.97258e-49	1.000000	3.97258e-49	1.000000
rad27	6.02320e-50	1.000000	6.02320e-50	1.000000
rad12	3.29296e-50	1.000000	3.29296e-50	1.000000
PhCCCH3+H	3.14380e-51	1.000000	3.14380e-51	1.000000
rad37	7.80014e-52	1.000000	7.80014e-52	1.000000
rad52	3.83552e-52	1.000000	3.83552e-52	1.000000
rad51	2.86123e-56	1.000000	2.86123e-56	1.000000
rad58	8.62025e-58	1.000000	8.62025e-58	1.000000
rad19syn	3.67032e-59	1.000000	3.67032e-59	1.000000
rad54	6.21128e-60	1.000000	6.21128e-60	1.000000
rad70	2.23792e-60	1.000000	2.23792e-60	1.000000
rad5	5.67873e-61	1.000000	5.67873e-61	1.000000
PAH10+CH3	5.99477e-62	1.000000	5.99477e-62	1.000000
rad47	1.32626e-62	1.000000	1.32626e-62	1.000000
rad65	5.39204e-63	1.000000	5.39204e-63	1.000000
rad34	4.38774e-65	1.000000	4.38774e-65	1.000000
rad55	1.72636e-65	1.000000	1.72636e-65	1.000000
PhcycC3H3_A+H	5.54120e-67	1.000000	5.54120e-67	1.000000
rad62	5.08469e-68	1.000000	5.08469e-68	1.000000
PAH1+H	2.98231e-68	1.000000	2.98231e-68	1.000000
rad43	3.16022e-71	1.000000	3.16022e-71	1.000000
rad42	7.17376e-77	1.000000	7.17376e-77	1.000000
rad41	5.36462e-81	1.000000	5.36462e-81	1.000000

1000000.00 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02671e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.996001	0.996001	0.996001	0.996001
rad21	0.00349431	0.999495	0.00349431	0.999495
rad18	0.000500248	0.999996	0.000500248	0.999996
rad22	3.81276e-06	0.999999	3.81276e-06	0.999999
Indene+H	1.16600e-07	0.999999	1.16600e-07	0.999999
rad24	9.10948e-08	1.000000	9.10948e-08	1.000000
rad45	6.11082e-08	1.000000	6.11082e-08	1.000000
Benzyl+C2H2	8.53154e-09	1.000000	0.000000	1.000000
rad36	4.75250e-09	1.000000	4.75250e-09	1.000000
rad11	6.45516e-10	1.000000	6.45516e-10	1.000000
rad23	5.48843e-12	1.000000	5.48843e-12	1.000000
rad6	1.04056e-15	1.000000	1.04056e-15	1.000000
rad30	7.39099e-19	1.000000	7.39099e-19	1.000000
rad15	4.53318e-21	1.000000	4.53318e-21	1.000000
rad13	6.47519e-24	1.000000	6.47519e-24	1.000000
rad25	1.67993e-24	1.000000	1.67993e-24	1.000000
rad7	1.34815e-24	1.000000	1.34815e-24	1.000000
rad38	2.90087e-25	1.000000	2.90087e-25	1.000000
rad33	1.37046e-26	1.000000	1.37046e-26	1.000000
rad8	2.83638e-27	1.000000	2.83638e-27	1.000000
PhCHCCH2+H	1.44645e-28	1.000000	1.44645e-28	1.000000
rad35	5.94566e-29	1.000000	5.94566e-29	1.000000
PAH9+H	4.55810e-29	1.000000	4.55810e-29	1.000000
rad46	1.23512e-30	1.000000	1.23512e-30	1.000000
rad9	9.95190e-31	1.000000	9.95190e-31	1.000000
rad60syn	1.80380e-31	1.000000	1.80380e-31	1.000000
rad3	1.00103e-31	1.000000	1.00103e-31	1.000000
rad28	8.01379e-32	1.000000	8.01379e-32	1.000000
rad4	5.90493e-32	1.000000	5.90493e-32	1.000000
rad60anti	1.11318e-32	1.000000	1.11318e-32	1.000000
Ph+Allene	2.06374e-33	1.000000	2.06374e-33	1.000000
PAH7+H	1.26012e-35	1.000000	1.26012e-35	1.000000
PhCH2CCH+H	1.95009e-36	1.000000	1.95009e-36	1.000000
rad2	2.90958e-38	1.000000	2.90958e-38	1.000000
PAH3+H	5.53381e-39	1.000000	5.53381e-39	1.000000
rad26	2.86445e-39	1.000000	2.86445e-39	1.000000

rad1	2.83677e-39	1.000000	2.83677e-39	1.000000
rad59	2.62825e-39	1.000000	2.62825e-39	1.000000
rad31	1.64657e-40	1.000000	1.64657e-40	1.000000
PhCCH+CH3	1.76054e-42	1.000000	1.76054e-42	1.000000
rad14	5.64493e-43	1.000000	5.64493e-43	1.000000
rad50	2.51456e-43	1.000000	2.51456e-43	1.000000
rad39	8.32280e-44	1.000000	8.32280e-44	1.000000
rad10	3.73889e-45	1.000000	3.73889e-45	1.000000
Ph+MeAc	9.14177e-48	1.000000	9.14177e-48	1.000000
rad12	8.20592e-49	1.000000	8.20592e-49	1.000000
rad27	7.59147e-49	1.000000	7.59147e-49	1.000000
PhCCCH3+H	5.56956e-50	1.000000	5.56957e-50	1.000000
rad37	1.98220e-50	1.000000	1.98220e-50	1.000000
rad52	1.67617e-50	1.000000	1.67617e-50	1.000000
rad51	1.69677e-54	1.000000	1.69677e-54	1.000000
rad58	3.61598e-56	1.000000	3.61598e-56	1.000000
rad19syn	1.45207e-57	1.000000	1.45207e-57	1.000000
rad54	2.71823e-58	1.000000	2.71823e-58	1.000000
rad70	1.13713e-58	1.000000	1.13713e-58	1.000000
rad5	2.09570e-59	1.000000	2.09570e-59	1.000000
PAH10+CH3	2.37242e-60	1.000000	2.37242e-60	1.000000
rad47	1.26718e-60	1.000000	1.26718e-60	1.000000
rad65	3.66574e-61	1.000000	3.66574e-61	1.000000
rad34	2.65547e-63	1.000000	2.65547e-63	1.000000
rad55	9.38620e-64	1.000000	9.38620e-64	1.000000
PhcycC3H3_A+H	3.08917e-65	1.000000	3.08917e-65	1.000000
rad62	3.15442e-66	1.000000	3.15442e-66	1.000000
PAH1+H	1.64134e-66	1.000000	1.64134e-66	1.000000
rad43	2.14324e-69	1.000000	2.14324e-69	1.000000
rad42	6.72180e-75	1.000000	6.72180e-75	1.000000
rad41	5.97671e-79	1.000000	5.97671e-79	1.000000

1000000.00 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04932e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.995456	0.995456	0.995456	0.995456
rad21	0.00396826	0.999424	0.00396826	0.999424
rad18	0.000570682	0.999995	0.000570682	0.999995
rad22	4.95990e-06	1.000000	4.95990e-06	1.000000
Indene+H	1.52680e-07	1.000000	1.52680e-07	1.000000
rad24	1.13748e-07	1.000000	1.13748e-07	1.000000
rad45	8.83952e-08	1.000000	8.83952e-08	1.000000
Benzyl+C2H2	1.33843e-08	1.000000	0.000000	1.000000
rad36	6.78865e-09	1.000000	6.78865e-09	1.000000
rad11	9.30115e-10	1.000000	9.30115e-10	1.000000
rad23	8.62774e-12	1.000000	8.62774e-12	1.000000
rad6	1.89234e-15	1.000000	1.89234e-15	1.000000
rad30	2.66858e-18	1.000000	2.66858e-18	1.000000
rad15	2.46349e-20	1.000000	2.46349e-20	1.000000
rad13	1.53263e-23	1.000000	1.53263e-23	1.000000
rad25	9.21315e-24	1.000000	9.21315e-24	1.000000
rad7	3.26276e-24	1.000000	3.26276e-24	1.000000
rad38	1.03745e-24	1.000000	1.03745e-24	1.000000
rad8	8.60920e-26	1.000000	8.60920e-26	1.000000
rad33	3.53275e-26	1.000000	3.53275e-26	1.000000
PhCHCCH2+H	1.74877e-27	1.000000	1.74877e-27	1.000000
rad35	1.77297e-28	1.000000	1.77297e-28	1.000000
PAH9+H	1.50260e-28	1.000000	1.50260e-28	1.000000
rad9	1.60826e-29	1.000000	1.60826e-29	1.000000
rad46	1.14681e-29	1.000000	1.14681e-29	1.000000
rad60syn	4.61163e-30	1.000000	4.61163e-30	1.000000
rad28	1.88625e-30	1.000000	1.88625e-30	1.000000
rad3	3.97787e-31	1.000000	3.97787e-31	1.000000
rad60anti	3.21473e-31	1.000000	3.21473e-31	1.000000
rad4	2.33589e-31	1.000000	2.33589e-31	1.000000
Ph+Allene	5.45316e-32	1.000000	5.45316e-32	1.000000
PAH7+H	4.08449e-34	1.000000	4.08449e-34	1.000000
PhCH2CCH+H	8.79436e-35	1.000000	8.79436e-35	1.000000
PAH3+H	2.43619e-37	1.000000	2.43619e-37	1.000000
rad2	1.99836e-37	1.000000	1.99836e-37	1.000000
rad26	1.16388e-37	1.000000	1.16388e-37	1.000000
rad59	1.14801e-37	1.000000	1.14801e-37	1.000000
rad1	1.92254e-38	1.000000	1.92254e-38	1.000000
rad31	6.56280e-40	1.000000	6.56280e-40	1.000000
PhCCH+CH3	2.90084e-41	1.000000	2.90084e-41	1.000000

rad50	1.12394e-41	1.00000	1.12394e-41	1.00000
rad14	7.01768e-42	1.00000	7.01768e-42	1.00000
rad39	2.51337e-42	1.00000	2.51337e-42	1.00000
rad10	7.59976e-44	1.00000	7.59976e-44	1.00000
Ph+MeAc	3.20782e-46	1.00000	3.20782e-46	1.00000
rad12	3.76165e-47	1.00000	3.76165e-47	1.00000
rad27	1.16310e-47	1.00000	1.16310e-47	1.00000
PhCCCH3+H	1.29643e-48	1.00000	1.29643e-48	1.00000
rad52	1.28815e-48	1.00000	1.28815e-48	1.00000
rad37	9.32008e-49	1.00000	9.32008e-49	1.00000
rad51	1.84431e-52	1.00000	1.84431e-52	1.00000
rad58	3.14180e-54	1.00000	3.14180e-54	1.00000
rad19syn	1.08555e-55	1.00000	1.08555e-55	1.00000
rad54	2.27557e-56	1.00000	2.27557e-56	1.00000
rad70	1.13901e-56	1.00000	1.13901e-56	1.00000
rad5	1.32551e-57	1.00000	1.32551e-57	1.00000
rad47	2.34213e-58	1.00000	2.34213e-58	1.00000
PAH10+CH3	1.85231e-58	1.00000	1.85231e-58	1.00000
rad65	4.75760e-59	1.00000	4.75760e-59	1.00000
rad34	3.20285e-61	1.00000	3.20285e-61	1.00000
rad55	9.95911e-62	1.00000	9.95911e-62	1.00000
PhcycC3H3_A+H	3.36334e-63	1.00000	3.36334e-63	1.00000
rad62	3.68964e-64	1.00000	3.68964e-64	1.00000
PAH1+H	1.82458e-64	1.00000	1.82458e-64	1.00000
rad43	2.69487e-67	1.00000	2.69487e-67	1.00000
rad42	1.22986e-72	1.00000	1.22986e-72	1.00000
rad41	1.28913e-76	1.00000	1.28913e-76	1.00000

1000000.00 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87106e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.994868	0.994868	0.994868	0.994868
rad21	0.00447758	0.999346	0.00447758	0.999346
rad18	0.000647083	0.999993	0.000647083	0.999993
rad22	6.37876e-06	0.999999	6.37876e-06	0.999999
Indene+H	1.97832e-07	0.999999	1.97832e-07	0.999999
rad24	1.40313e-07	0.999999	1.40313e-07	0.999999
rad45	1.25734e-07	1.000000	1.25734e-07	1.000000
Benzyl+C2H2	2.08569e-08	1.000000	0.000000	1.000000
rad36	9.55245e-09	1.000000	9.55245e-09	1.000000
rad11	1.33603e-09	1.000000	1.33603e-09	1.000000
rad23	1.33735e-11	1.000000	1.33735e-11	1.000000
rad6	3.45831e-15	1.000000	3.45831e-15	1.000000
rad30	8.88178e-18	1.000000	8.88178e-18	1.000000
rad15	1.21872e-19	1.000000	1.21872e-19	1.000000
rad25	4.77897e-23	1.000000	4.77897e-23	1.000000
rad13	3.70238e-23	1.000000	3.70238e-23	1.000000
rad7	8.08175e-24	1.000000	8.08175e-24	1.000000
rad38	3.62132e-24	1.000000	3.62132e-24	1.000000
rad8	2.79941e-24	1.000000	2.79941e-24	1.000000
rad33	9.37590e-26	1.000000	9.37590e-26	1.000000
PhCHCCH2+H	2.10458e-26	1.000000	2.10458e-26	1.000000
rad35	5.36350e-28	1.000000	5.36350e-28	1.000000
PAH9+H	4.99332e-28	1.000000	4.99332e-28	1.000000
rad9	2.74958e-28	1.000000	2.74958e-28	1.000000
rad60syn	1.32597e-28	1.000000	1.32597e-28	1.000000
rad46	1.02985e-28	1.000000	1.02985e-28	1.000000
rad28	5.06457e-29	1.000000	5.06457e-29	1.000000
rad60anti	1.11718e-29	1.000000	1.11718e-29	1.000000
Ph+Allene	1.71554e-30	1.000000	1.71554e-30	1.000000
rad3	1.66076e-30	1.000000	1.66076e-30	1.000000
rad4	9.71466e-31	1.000000	9.71466e-31	1.000000
PAH7+H	1.79587e-32	1.000000	1.79587e-32	1.000000
PhCH2CCH+H	6.25390e-33	1.000000	6.25390e-33	1.000000
PAH3+H	1.64312e-35	1.000000	1.64312e-35	1.000000
rad59	7.67119e-36	1.000000	7.67119e-36	1.000000
rad26	6.87496e-36	1.000000	6.87496e-36	1.000000
rad2	1.48563e-36	1.000000	1.48563e-36	1.000000
rad1	1.41328e-37	1.000000	1.41328e-37	1.000000
rad31	2.75346e-39	1.000000	2.75346e-39	1.000000
rad50	6.52832e-40	1.000000	6.52832e-40	1.000000
PhCCH+CH3	5.21115e-40	1.000000	5.21115e-40	1.000000
rad39	9.53279e-41	1.000000	9.53279e-41	1.000000
rad14	9.32173e-41	1.000000	9.32173e-41	1.000000
rad10	3.36615e-42	1.000000	3.36615e-42	1.000000

Ph+MeAc	1.37743e-44	1.000000	1.37743e-44	1.000000
rad12	2.50678e-45	1.000000	2.50678e-45	1.000000
rad27	2.01935e-46	1.000000	2.01935e-46	1.000000
rad52	1.36492e-46	1.000000	1.36492e-46	1.000000
rad37	6.41297e-47	1.000000	6.41297e-47	1.000000
PhCCH3+H	3.48747e-47	1.000000	3.48747e-47	1.000000
rad51	2.83589e-50	1.000000	2.83589e-50	1.000000
rad58	4.33744e-52	1.000000	4.33744e-52	1.000000
rad19syn	1.21453e-53	1.000000	1.21453e-53	1.000000
rad54	2.87374e-54	1.000000	2.87374e-54	1.000000
rad70	1.75456e-54	1.000000	1.75456e-54	1.000000
rad5	1.15630e-55	1.000000	1.15630e-55	1.000000
rad47	6.32395e-56	1.000000	6.32396e-56	1.000000
PAH10+CH3	2.22687e-56	1.000000	2.22687e-56	1.000000
rad65	8.98973e-57	1.000000	8.98973e-57	1.000000
rad34	5.98114e-59	1.000000	5.98114e-59	1.000000
rad55	1.61479e-59	1.000000	1.61479e-59	1.000000
PhcycC3H3_A+H	5.60094e-61	1.000000	5.60094e-61	1.000000
rad62	6.43928e-62	1.000000	6.43928e-62	1.000000
PAH1+H	3.17081e-62	1.000000	3.17081e-62	1.000000
rad43	4.99347e-65	1.000000	4.99347e-65	1.000000
rad42	3.44344e-70	1.000000	3.44344e-70	1.000000
rad41	4.22635e-74	1.000000	4.22635e-74	1.000000

1000000.00 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.94360e-35 (1.00)	3.94360e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.994232	0.994232	0.994232	0.994232
rad21	0.00502885	0.999261	0.00502885	0.999261
rad18	0.000730581	0.999991	0.000730581	0.999991
rad22	8.14015e-06	1.000000	8.14015e-06	1.000000
Indene+H	2.54621e-07	1.000000	2.54621e-07	1.000000
rad45	1.76789e-07	1.000000	1.76789e-07	1.000000
rad24	1.71524e-07	1.000000	1.71524e-07	1.000000
Benzyl+C2H2	3.23301e-08	1.000000	0.000000	1.000000
rad36	1.33065e-08	1.000000	1.33065e-08	1.000000
rad11	1.91985e-09	1.000000	1.91985e-09	1.000000
rad23	2.05675e-11	1.000000	2.05675e-11	1.000000
rad6	6.38160e-15	1.000000	6.38160e-15	1.000000
rad30	2.71436e-17	1.000000	2.71436e-17	1.000000
rad15	5.32970e-19	1.000000	5.32970e-19	1.000000
rad25	2.28161e-22	1.000000	2.28161e-22	1.000000
rad13	9.17151e-23	1.000000	9.17151e-23	1.000000
rad8	6.95872e-23	1.000000	6.95872e-23	1.000000
rad7	2.05765e-23	1.000000	2.05765e-23	1.000000
rad38	1.23081e-23	1.000000	1.23081e-23	1.000000
rad33	2.56750e-25	1.000000	2.56750e-25	1.000000
PhCHCCH2+H	2.23925e-25	1.000000	2.23925e-25	1.000000
rad9	4.39596e-27	1.000000	4.39596e-27	1.000000
rad60syn	3.15965e-27	1.000000	3.15965e-27	1.000000
PAH9+H	1.67389e-27	1.000000	1.67389e-27	1.000000
rad35	1.64867e-27	1.000000	1.64867e-27	1.000000
rad28	1.18359e-27	1.000000	1.18359e-27	1.000000
rad46	8.33130e-28	1.000000	8.33130e-28	1.000000
rad60anti	3.22692e-28	1.000000	3.22692e-28	1.000000
Ph+Allene	4.82123e-29	1.000000	4.82123e-29	1.000000
rad3	7.23264e-30	1.000000	7.23264e-30	1.000000
rad4	4.21666e-30	1.000000	4.21666e-30	1.000000
PAH7+H	7.46461e-31	1.000000	7.46461e-31	1.000000
PhCH2CCH+H	5.70185e-31	1.000000	5.70185e-31	1.000000
PAH3+H	1.35113e-33	1.000000	1.35113e-33	1.000000
rad59	6.23244e-34	1.000000	6.23244e-34	1.000000
rad26	4.63246e-34	1.000000	4.63246e-34	1.000000
rad2	1.16177e-35	1.000000	1.16177e-35	1.000000
rad1	1.09477e-36	1.000000	1.09477e-36	1.000000
rad50	3.95892e-38	1.000000	3.95892e-38	1.000000
rad31	1.20562e-38	1.000000	1.20562e-38	1.000000
PhCCH+CH3	9.25062e-39	1.000000	9.25062e-39	1.000000
rad39	3.43967e-39	1.000000	3.43967e-39	1.000000
rad14	1.23868e-39	1.000000	1.23868e-39	1.000000
rad10	2.28617e-40	1.000000	2.28617e-40	1.000000
Ph+MeAc	5.80102e-43	1.000000	5.80102e-43	1.000000
rad12	1.92390e-43	1.000000	1.92390e-43	1.000000
rad52	1.60499e-44	1.000000	1.60499e-44	1.000000
rad37	5.14135e-45	1.000000	5.14135e-45	1.000000

rad27	3.68209e-45	1.00000	3.68209e-45	1.00000
PhCCCH3+H	9.60784e-46	1.00000	9.60784e-46	1.00000
rad51	4.92976e-48	1.00000	4.92976e-48	1.00000
rad58	7.70741e-50	1.00000	7.70741e-50	1.00000
rad19syn	1.65355e-51	1.00000	1.65355e-51	1.00000
rad54	4.45665e-52	1.00000	4.45665e-52	1.00000
rad70	3.37976e-52	1.00000	3.37976e-52	1.00000
rad47	1.96869e-53	1.00000	1.96869e-53	1.00000
rad5	1.11362e-53	1.00000	1.11362e-53	1.00000
PAH10+CH3	3.34848e-54	1.00000	3.34848e-54	1.00000
rad65	1.96081e-54	1.00000	1.96081e-54	1.00000
rad34	1.40553e-56	1.00000	1.40553e-56	1.00000
rad55	3.25986e-57	1.00000	3.25986e-57	1.00000
PhcycC3H3_A+H	1.16278e-58	1.00000	1.16278e-58	1.00000
rad62	1.36716e-59	1.00000	1.36716e-59	1.00000
PAH1+H	6.99155e-60	1.00000	6.99155e-60	1.00000
rad43	1.11203e-62	1.00000	1.11203e-62	1.00000
rad42	1.20427e-67	1.00000	1.20427e-67	1.00000
rad41	1.71913e-71	1.00000	1.71913e-71	1.00000

1000000.00 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.44756e-33 (1.00)	1.44756e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.993537	0.993537	0.993537	0.993537
rad21	0.00562945	0.999166	0.00562945	0.999166
rad18	0.000822464	0.999989	0.000822464	0.999989
rad22	1.03367e-05	0.999999	1.03367e-05	0.999999
Indene+H	3.26472e-07	1.000000	3.26472e-07	1.000000
rad45	2.46668e-07	1.000000	2.46668e-07	1.000000
rad24	2.08255e-07	1.000000	2.08255e-07	1.000000
Benzyl+C2H2	4.98871e-08	1.000000	0.000000	1.000000
rad36	1.84167e-08	1.000000	1.84167e-08	1.000000
rad11	2.76639e-09	1.000000	2.76639e-09	1.000000
rad23	3.15293e-11	1.000000	3.15293e-11	1.000000
rad6	1.19187e-14	1.000000	1.19187e-14	1.000000
rad30	7.67763e-17	1.000000	7.67763e-17	1.000000
rad15	2.06463e-18	1.000000	2.06463e-18	1.000000
rad8	1.22314e-21	1.000000	1.22314e-21	1.000000
rad25	9.98741e-22	1.000000	9.98741e-22	1.000000
rad13	2.33082e-22	1.000000	2.33082e-22	1.000000
rad7	5.38424e-23	1.000000	5.38424e-23	1.000000
rad38	4.07132e-23	1.000000	4.07132e-23	1.000000
PhCHCCH2+H	2.02430e-24	1.000000	2.02430e-24	1.000000
rad33	7.23574e-25	1.000000	7.23574e-25	1.000000
rad9	6.49093e-26	1.000000	6.49093e-26	1.000000
rad60syn	5.62142e-26	1.000000	5.62142e-26	1.000000
rad28	2.14628e-26	1.000000	2.14628e-26	1.000000
rad60anti	6.82306e-27	1.000000	6.82306e-27	1.000000
rad46	5.92220e-27	1.000000	5.92220e-27	1.000000
PAH9+H	5.65125e-27	1.000000	5.65125e-27	1.000000
rad35	5.14427e-27	1.000000	5.14427e-27	1.000000
Ph+Allene	1.05750e-27	1.000000	1.05750e-27	1.000000
PhCH2CCH+H	4.94765e-29	1.000000	4.94765e-29	1.000000
rad3	3.24665e-29	1.000000	3.24665e-29	1.000000
PAH7+H	2.26867e-29	1.000000	2.26867e-29	1.000000
rad4	1.88739e-29	1.000000	1.88739e-29	1.000000
PAH3+H	1.00233e-31	1.000000	1.00233e-31	1.000000
rad59	4.55178e-32	1.000000	4.55178e-32	1.000000
rad26	2.58099e-32	1.000000	2.58099e-32	1.000000
rad2	9.28870e-35	1.000000	9.28870e-35	1.000000
rad1	8.68363e-36	1.000000	8.68363e-36	1.000000
rad50	1.99895e-36	1.000000	1.99895e-36	1.000000
PhCCH+CH3	1.53483e-37	1.000000	1.53483e-37	1.000000
rad39	1.00153e-37	1.000000	1.00153e-37	1.000000
rad31	5.44411e-38	1.000000	5.44411e-38	1.000000
rad14	1.58192e-38	1.000000	1.58192e-38	1.000000
rad10	1.41018e-38	1.000000	1.41018e-38	1.000000
Ph+MeAc	2.07199e-41	1.000000	2.07199e-41	1.000000
rad12	1.25635e-41	1.000000	1.25635e-41	1.000000
rad52	1.65128e-42	1.000000	1.65128e-42	1.000000
rad37	3.57905e-43	1.000000	3.57905e-43	1.000000
rad27	6.64703e-44	1.000000	6.64703e-44	1.000000
PhCCCH3+H	2.49837e-44	1.000000	2.49837e-44	1.000000
rad51	7.56988e-46	1.000000	7.56988e-46	1.000000
rad58	1.30473e-47	1.000000	1.30473e-47	1.000000

rad19syn	2.07136e-49	1.00000	2.07136e-49	1.00000
rad54	6.39707e-50	1.00000	6.39707e-50	1.00000
rad70	6.09242e-50	1.00000	6.09242e-50	1.00000
rad47	5.46397e-51	1.00000	5.46397e-51	1.00000
rad5	9.26101e-52	1.00000	9.26102e-52	1.00000
PAH10+CH3	4.71543e-52	1.00000	4.71543e-52	1.00000
rad65	3.82508e-52	1.00000	3.82508e-52	1.00000
rad34	3.10155e-54	1.00000	3.10155e-54	1.00000
rad55	6.14487e-55	1.00000	6.14487e-55	1.00000
PhcycC3H3_A+H	2.25713e-56	1.00000	2.25713e-56	1.00000
rad62	2.66707e-57	1.00000	2.66707e-57	1.00000
PAH1+H	1.45645e-57	1.00000	1.45645e-57	1.00000
rad43	2.25632e-60	1.00000	2.25632e-60	1.00000
rad42	3.94488e-65	1.00000	3.94488e-65	1.00000
rad41	6.50839e-69	1.00000	6.50839e-69	1.00000

1000000.00 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27736e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.992774	0.992774	0.992774	0.992774
rad21	0.00628765	0.999062	0.00628765	0.999062
rad18	0.000924203	0.999986	0.000924203	0.999986
rad22	1.30891e-05	0.999999	1.30891e-05	0.999999
Indene+H	4.17952e-07	0.999999	4.17952e-07	0.999999
rad45	3.42484e-07	1.000000	3.42484e-07	1.000000
rad24	2.51529e-07	1.000000	2.51529e-07	1.000000
Benzyl+C2H2	7.66485e-08	1.000000	0.000000	1.000000
rad36	2.53920e-08	1.000000	2.53920e-08	1.000000
rad11	4.00289e-09	1.000000	4.00289e-09	1.000000
rad23	4.83416e-11	1.000000	4.83416e-11	1.000000
rad6	2.25406e-14	1.000000	2.25406e-14	1.000000
rad30	2.03246e-16	1.000000	2.03246e-16	1.000000
rad15	7.17929e-18	1.000000	7.17929e-18	1.000000
rad8	1.55654e-20	1.000000	1.55654e-20	1.000000
rad25	4.03335e-21	1.000000	4.03335e-21	1.000000
rad13	6.06079e-22	1.000000	6.06079e-22	1.000000
rad7	1.44332e-22	1.000000	1.44332e-22	1.000000
rad38	1.31106e-22	1.000000	1.31106e-22	1.000000
PhCHCCH2+H	1.55511e-23	1.000000	1.55511e-23	1.000000
rad33	2.08691e-24	1.000000	2.08691e-24	1.000000
rad9	8.95813e-25	1.000000	8.95813e-25	1.000000
rad60syn	7.47703e-25	1.000000	7.47703e-25	1.000000
rad28	2.97967e-25	1.000000	2.97968e-25	1.000000
rad60anti	1.05697e-25	1.000000	1.05697e-25	1.000000
rad46	3.70162e-26	1.000000	3.70162e-26	1.000000
PAH9+H	1.91551e-26	1.000000	1.91551e-26	1.000000
Ph+Allene	1.78024e-26	1.000000	1.78024e-26	1.000000
rad35	1.63304e-26	1.000000	1.63304e-26	1.000000
PhCH2CCH+H	4.59780e-27	1.000000	4.59780e-27	1.000000
PAH7+H	4.97963e-28	1.000000	4.97964e-28	1.000000
rad3	1.48272e-28	1.000000	1.48272e-28	1.000000
rad4	8.59837e-29	1.000000	8.59838e-29	1.000000
PAH3+H	5.78372e-30	1.000000	5.78373e-30	1.000000
rad59	2.45535e-30	1.000000	2.45535e-30	1.000000
rad26	9.85537e-31	1.000000	9.85537e-31	1.000000
rad2	7.42010e-34	1.000000	7.42010e-34	1.000000
rad50	7.83302e-35	1.000000	7.83302e-35	1.000000
rad1	6.89106e-35	1.000000	6.89106e-35	1.000000
PhCCH+CH3	2.33251e-36	1.000000	2.33251e-36	1.000000
rad39	2.32039e-36	1.000000	2.32039e-36	1.000000
rad10	6.50739e-37	1.000000	6.50739e-37	1.000000
rad31	2.50481e-37	1.000000	2.50481e-37	1.000000
rad14	1.90434e-37	1.000000	1.90434e-37	1.000000
rad12	6.40945e-40	1.000000	6.40946e-40	1.000000
Ph+MeAc	6.20595e-40	1.000000	6.20595e-40	1.000000
rad52	1.61360e-40	1.000000	1.61360e-40	1.000000
rad37	2.10921e-41	1.000000	2.10921e-41	1.000000
rad27	1.15231e-42	1.000000	1.15231e-42	1.000000
PhCCCH3+H	6.00177e-43	1.000000	6.00178e-43	1.000000
rad51	1.13800e-43	1.000000	1.13800e-43	1.000000
rad58	2.89005e-45	1.000000	2.89005e-45	1.000000
rad19syn	2.97104e-47	1.000000	2.97104e-47	1.000000
rad70	1.36367e-47	1.000000	1.36367e-47	1.000000
rad54	1.08786e-47	1.000000	1.08786e-47	1.000000
rad47	1.50165e-48	1.000000	1.50165e-48	1.000000

PAH10+CH3	8.16898e-50	1.00000	8.16898e-50	1.000000
rad65	7.45321e-50	1.00000	7.45321e-50	1.000000
rad5	7.02352e-50	1.00000	7.02352e-50	1.000000
rad34	8.63415e-52	1.00000	8.63415e-52	1.000000
rad55	1.43341e-52	1.00000	1.43341e-52	1.000000
PhcycC3H3_A+H	5.44085e-54	1.00000	5.44085e-54	1.000000
rad62	6.07577e-55	1.00000	6.07577e-55	1.000000
PAH1+H	3.85926e-55	1.00000	3.85926e-55	1.000000
rad43	5.21165e-58	1.00000	5.21165e-58	1.000000
rad42	1.60161e-62	1.00000	1.60161e-62	1.000000
rad41	3.01159e-66	1.00000	3.01159e-66	1.000000

1000000.00 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01169e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.991932	0.991932	0.991932	0.991932
rad21	0.00701271	0.998945	0.00701271	0.998945
rad18	0.00103747	0.999982	0.00103747	0.999982
rad22	1.65548e-05	0.999999	1.65548e-05	0.999999
Indene+H	5.35159e-07	0.999999	5.35159e-07	0.999999
rad45	4.74122e-07	1.000000	4.74122e-07	1.000000
rad24	3.02522e-07	1.000000	3.02522e-07	1.000000
Benzyl+C2H2	1.17253e-07	1.000000	0.000000	1.000000
rad36	3.49398e-08	1.000000	3.49399e-08	1.000000
rad11	5.82018e-09	1.000000	5.82018e-09	1.000000
rad23	7.43063e-11	1.000000	7.43063e-11	1.000000
rad6	4.31256e-14	1.000000	4.31256e-14	1.000000
rad30	5.08980e-16	1.000000	5.08980e-16	1.000000
rad15	2.27564e-17	1.000000	2.27564e-17	1.000000
rad8	1.49596e-19	1.000000	1.49596e-19	1.000000
rad25	1.51639e-20	1.000000	1.51639e-20	1.000000
rad13	1.60522e-21	1.000000	1.60522e-21	1.000000
rad38	4.11217e-22	1.000000	4.11217e-22	1.000000
rad7	3.94380e-22	1.000000	3.94380e-22	1.000000
PhCHCCH2+H	1.02994e-22	1.000000	1.02994e-22	1.000000
rad9	1.11456e-23	1.000000	1.11456e-23	1.000000
rad60syn	7.65974e-24	1.000000	7.65974e-24	1.000000
rad33	6.11688e-24	1.000000	6.11689e-24	1.000000
rad28	3.22934e-24	1.000000	3.22934e-24	1.000000
rad60anti	1.23701e-24	1.000000	1.23701e-24	1.000000
Ph+Allene	2.33574e-25	1.000000	2.33574e-25	1.000000
rad46	2.05683e-25	1.000000	2.05683e-25	1.000000
PhCH2CCH+H	1.59218e-25	1.000000	1.59218e-25	1.000000
PAH9+H	6.49381e-26	1.000000	6.49381e-26	1.000000
rad35	5.39611e-26	1.000000	5.39611e-26	1.000000
PAH7+H	8.03363e-27	1.000000	8.03363e-27	1.000000
rad3	6.80656e-28	1.000000	6.80656e-28	1.000000
rad4	3.93892e-28	1.000000	3.93892e-28	1.000000
PAH3+H	1.74745e-28	1.000000	1.74745e-28	1.000000
rad59	7.03122e-29	1.000000	7.03123e-29	1.000000
rad26	2.39607e-29	1.000000	2.39607e-29	1.000000
rad2	5.82022e-33	1.000000	5.82022e-33	1.000000
rad50	2.13841e-33	1.000000	2.13841e-33	1.000000
rad1	5.37625e-34	1.000000	5.37626e-34	1.000000
rad39	4.23034e-35	1.000000	4.23035e-35	1.000000
PhCCH+CH3	3.21284e-35	1.000000	3.21284e-35	1.000000
rad10	1.91918e-35	1.000000	1.91918e-35	1.000000
rad14	2.13752e-36	1.000000	2.13752e-36	1.000000
rad31	1.16156e-36	1.000000	1.16156e-36	1.000000
rad12	2.10371e-38	1.000000	2.10371e-38	1.000000
Ph+MeAc	1.51115e-38	1.000000	1.51115e-38	1.000000
rad52	1.14989e-38	1.000000	1.14989e-38	1.000000
rad37	8.06512e-40	1.000000	8.06512e-40	1.000000
rad27	1.87052e-41	1.000000	1.87052e-41	1.000000
PhCCCH3+H	1.29344e-41	1.000000	1.29344e-41	1.000000
rad51	1.27235e-41	1.000000	1.27235e-41	1.000000
rad58	5.20254e-43	1.000000	5.20254e-43	1.000000
rad19syn	3.21950e-45	1.000000	3.21950e-45	1.000000
rad70	2.42891e-45	1.000000	2.42891e-45	1.000000
rad54	1.43241e-45	1.000000	1.43241e-45	1.000000
rad47	3.07177e-46	1.000000	3.07177e-46	1.000000
PAH10+CH3	1.11830e-47	1.000000	1.11830e-47	1.000000
rad65	1.09064e-47	1.000000	1.09064e-47	1.000000
rad5	3.96163e-48	1.000000	3.96163e-48	1.000000
rad34	1.92657e-49	1.000000	1.92657e-49	1.000000

rad55	2.65892e-50	1.00000	2.65892e-50	1.00000
PhcycC3H3_A+H	1.04612e-51	1.00000	1.04612e-51	1.00000
rad62	1.06504e-52	1.00000	1.06504e-52	1.00000
PAH1+H	8.22866e-53	1.00000	8.22866e-53	1.00000
rad43	9.16966e-56	1.00000	9.16966e-56	1.00000
rad42	5.14720e-60	1.00000	5.14720e-60	1.00000
rad41	1.09013e-63	1.00000	1.09013e-63	1.00000

1000000.00 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54821e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.990998	0.990998	0.990998	0.990998
rad21	0.00781492	0.998813	0.00781492	0.998813
rad18	0.00116416	0.999977	0.00116416	0.999977
rad22	2.09383e-05	0.999998	2.09383e-05	0.999998
Indene+H	6.86231e-07	0.999999	6.86231e-07	0.999999
rad45	6.55280e-07	0.999999	6.55280e-07	0.999999
rad24	3.62573e-07	1.000000	3.62573e-07	1.000000
Benzyl+C2H2	1.78542e-07	1.000000	0.000000	1.000000
rad36	4.80413e-08	1.000000	4.80413e-08	1.000000
rad11	8.50423e-09	1.000000	8.50423e-09	1.000000
rad23	1.14676e-10	1.000000	1.14676e-10	1.000000
rad6	8.33151e-14	1.000000	8.33151e-14	1.000000
rad30	1.21676e-15	1.000000	1.21676e-15	1.000000
rad15	6.66938e-17	1.000000	6.66939e-17	1.000000
rad8	1.13207e-18	1.000000	1.13207e-18	1.000000
rad25	5.35464e-20	1.000000	5.35464e-20	1.000000
rad13	4.30722e-21	1.000000	4.30722e-21	1.000000
rad38	1.25687e-21	1.000000	1.25687e-21	1.000000
rad7	1.09223e-21	1.000000	1.09223e-21	1.000000
PhCHCCH2+H	5.98520e-22	1.000000	5.98520e-22	1.000000
rad9	1.19770e-22	1.000000	1.19770e-22	1.000000
rad60syn	6.25983e-23	1.000000	6.25984e-23	1.000000
rad28	2.81280e-23	1.000000	2.81280e-23	1.000000
rad33	1.80887e-23	1.000000	1.80887e-23	1.000000
rad60anti	1.13563e-23	1.000000	1.13563e-23	1.000000
PhCH2CCH+H	3.35630e-24	1.000000	3.35630e-24	1.000000
Ph+Allene	2.45904e-24	1.000000	2.45904e-24	1.000000
rad46	1.02994e-24	1.000000	1.02994e-24	1.000000
PAH9+H	2.19329e-25	1.000000	2.19330e-25	1.000000
rad35	1.99533e-25	1.000000	1.99533e-25	1.000000
PAH7+H	9.92782e-26	1.000000	9.92783e-26	1.000000
PAH3+H	3.52309e-27	1.000000	3.52309e-27	1.000000
rad3	3.10885e-27	1.000000	3.10885e-27	1.000000
rad4	1.79594e-27	1.000000	1.79594e-27	1.000000
rad59	1.36135e-27	1.000000	1.36135e-27	1.000000
rad26	4.16225e-28	1.000000	4.16225e-28	1.000000
rad2	4.42772e-32	1.000000	4.42772e-32	1.000000
rad50	4.30402e-32	1.000000	4.30402e-32	1.000000
rad1	4.07271e-33	1.000000	4.07271e-33	1.000000
rad39	6.23536e-34	1.000000	6.23536e-34	1.000000
rad10	4.03194e-34	1.000000	4.03194e-34	1.000000
PhCCH+CH3	4.00688e-34	1.000000	4.00688e-34	1.000000
rad14	2.22683e-35	1.000000	2.22683e-35	1.000000
rad31	5.38010e-36	1.000000	5.38010e-36	1.000000
rad52	5.74883e-37	1.000000	5.74883e-37	1.000000
rad12	4.91777e-37	1.000000	4.91777e-37	1.000000
Ph+MeAc	3.04456e-37	1.000000	3.04456e-37	1.000000
rad37	2.17948e-38	1.000000	2.17948e-38	1.000000
rad51	1.02847e-39	1.000000	1.02847e-39	1.000000
rad27	2.80847e-40	1.000000	2.80847e-40	1.000000
PhCCCH3+H	2.48672e-40	1.000000	2.48672e-40	1.000000
rad58	7.31155e-41	1.000000	7.31155e-41	1.000000
rad70	3.31019e-43	1.000000	3.31019e-43	1.000000
rad19syn	2.49473e-43	1.000000	2.49473e-43	1.000000
rad54	1.39545e-43	1.000000	1.39545e-43	1.000000
rad47	4.53359e-44	1.000000	4.53359e-44	1.000000
rad65	1.16556e-45	1.000000	1.16556e-45	1.000000
PAH10+CH3	1.15821e-45	1.000000	1.15821e-45	1.000000
rad5	1.70522e-46	1.000000	1.70522e-46	1.000000
rad34	3.31570e-47	1.000000	3.31571e-47	1.000000
rad55	3.77100e-48	1.000000	3.77100e-48	1.000000
PhcycC3H3_A+H	1.54361e-49	1.000000	1.54361e-49	1.000000
rad62	1.38320e-50	1.000000	1.38320e-50	1.000000
PAH1+H	1.35775e-50	1.000000	1.35775e-50	1.000000

rad43	1.18941e-53	1.000000	1.18941e-53	1.000000
rad42	1.25389e-57	1.000000	1.25389e-57	1.000000
rad41	2.95273e-61	1.000000	2.95273e-61	1.000000

1000000.00 Pa, 180.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	4.69315e-29 (1.00)		4.69315e-29 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

rad20	0.989959	0.989959	0.989959	0.989959
rad21	0.00870572	0.998665	0.00870573	0.998665
rad18	0.00130641	0.999971	0.00130641	0.999971
rad22	2.65049e-05	0.999998	2.65049e-05	0.999998
rad45	9.04877e-07	0.999999	9.04877e-07	0.999999
Indene+H	8.82031e-07	0.999999	8.82031e-07	0.999999
rad24	4.33174e-07	1.000000	4.33174e-07	1.000000
Benzyl+C2H2	2.70520e-07	1.000000	0.000000	1.000000
rad36	6.60527e-08	1.000000	6.60527e-08	1.000000
rad11	1.24827e-08	1.000000	1.24827e-08	1.000000
rad23	1.77820e-10	1.000000	1.77820e-10	1.000000
rad6	1.62142e-13	1.000000	1.62142e-13	1.000000
rad30	2.79691e-15	1.000000	2.79691e-15	1.000000
rad15	1.82927e-16	1.000000	1.82927e-16	1.000000
rad8	6.99407e-18	1.000000	6.99407e-18	1.000000
rad25	1.78939e-19	1.000000	1.78939e-19	1.000000
rad13	1.16448e-20	1.000000	1.16448e-20	1.000000
rad38	3.74523e-21	1.000000	3.74523e-21	1.000000
PhCHCCH2+H	3.10329e-21	1.000000	3.10329e-21	1.000000
rad7	3.04866e-21	1.000000	3.04866e-21	1.000000
rad9	1.08631e-21	1.000000	1.08631e-21	1.000000
rad60syn	4.21583e-22	1.000000	4.21583e-22	1.000000
rad28	2.02628e-22	1.000000	2.02628e-22	1.000000
rad60anti	8.46698e-23	1.000000	8.46698e-23	1.000000
rad33	5.35986e-23	1.000000	5.35986e-23	1.000000
PhCH2CCH+H	5.03935e-23	1.000000	5.03935e-23	1.000000
Ph+Allene	2.13760e-23	1.000000	2.13761e-23	1.000000
rad46	4.70895e-24	1.000000	4.70895e-24	1.000000
PAH7+H	9.74491e-25	1.000000	9.74491e-25	1.000000
rad35	9.07537e-25	1.000000	9.07537e-25	1.000000
PAH9+H	7.35370e-25	1.000000	7.35370e-25	1.000000
PAH3+H	5.21984e-26	1.000000	5.21984e-26	1.000000
rad59	1.94732e-26	1.000000	1.94732e-26	1.000000
rad3	1.40118e-26	1.000000	1.40118e-26	1.000000
rad4	8.08297e-27	1.000000	8.08298e-27	1.000000
rad26	5.47795e-27	1.000000	5.47795e-27	1.000000
rad50	6.67783e-31	1.000000	6.67783e-31	1.000000
rad2	3.23846e-31	1.000000	3.23846e-31	1.000000
rad1	2.96950e-32	1.000000	2.96950e-32	1.000000
rad39	7.61434e-33	1.000000	7.61434e-33	1.000000
rad10	6.41658e-33	1.000000	6.41658e-33	1.000000
PhCCH+CH3	4.52981e-33	1.000000	4.52981e-33	1.000000
rad14	2.14863e-34	1.000000	2.14863e-34	1.000000
rad31	2.47095e-35	1.000000	2.47095e-35	1.000000
rad52	1.93209e-35	1.000000	1.93209e-35	1.000000
rad12	8.69832e-36	1.000000	8.69832e-36	1.000000
Ph+MeAc	5.15808e-36	1.000000	5.15808e-36	1.000000
rad37	4.41064e-37	1.000000	4.41064e-37	1.000000
rad51	6.04507e-38	1.000000	6.04507e-38	1.000000
rad58	8.86715e-39	1.000000	8.86715e-39	1.000000
PhCCCH3+H	4.25293e-39	1.000000	4.25293e-39	1.000000
rad27	3.86883e-39	1.000000	3.86883e-39	1.000000
rad70	3.70353e-41	1.000000	3.70353e-41	1.000000
rad19syn	1.34019e-41	1.000000	1.34019e-41	1.000000
rad54	1.02182e-41	1.000000	1.02182e-41	1.000000
rad47	4.87539e-42	1.000000	4.87539e-42	1.000000
PAH10+CH3	9.48003e-44	1.000000	9.48003e-44	1.000000
rad65	9.24373e-44	1.000000	9.24374e-44	1.000000
rad5	5.75682e-45	1.000000	5.75682e-45	1.000000
rad34	4.79627e-45	1.000000	4.79627e-45	1.000000
rad55	4.37533e-46	1.000000	4.37533e-46	1.000000
PhcycC3H3_A+H	1.87615e-47	1.000000	1.87616e-47	1.000000
PAH1+H	1.89564e-48	1.000000	1.89564e-48	1.000000
rad62	1.37987e-48	1.000000	1.37987e-48	1.000000
rad43	1.17568e-51	1.000000	1.17568e-51	1.000000
rad42	2.45887e-55	1.000000	2.45887e-55	1.000000
rad41	6.31501e-59	1.000000	6.31501e-59	1.000000

1000000.00 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.16530e-28 (1.00)	3.16530e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.988799	0.988799	0.988799	0.988799
rad21	0.00969775	0.998497	0.00969775	0.998497
rad18	0.00146666	0.999963	0.00146666	0.999963
rad22	3.35980e-05	0.999997	3.35980e-05	0.999997
rad45	1.24894e-06	0.999998	1.24894e-06	0.999998
Indene+H	1.13706e-06	0.999999	1.13706e-06	0.999999
rad24	5.15971e-07	1.000000	5.15971e-07	1.000000
Benzyl+C2H2	4.07695e-07	1.000000	0.000000	1.000000
rad36	9.08440e-08	1.000000	9.08440e-08	1.000000
rad11	1.83930e-08	1.000000	1.83930e-08	1.000000
rad23	2.77093e-10	1.000000	2.77093e-10	1.000000
rad6	3.17048e-13	1.000000	3.17048e-13	1.000000
rad30	6.21684e-15	1.000000	6.21685e-15	1.000000
rad15	4.74223e-16	1.000000	4.74223e-16	1.000000
rad8	3.63623e-17	1.000000	3.63623e-17	1.000000
rad25	5.69381e-19	1.000000	5.69382e-19	1.000000
rad13	3.15563e-20	1.000000	3.15563e-20	1.000000
PhCHCCH2+H	1.45674e-20	1.000000	1.45674e-20	1.000000
rad38	1.08848e-20	1.000000	1.08848e-20	1.000000
rad7	8.53174e-21	1.000000	8.53175e-21	1.000000
rad9	8.31025e-21	1.000000	8.31025e-21	1.000000
rad60syn	2.40645e-21	1.000000	2.40645e-21	1.000000
rad28	1.23863e-21	1.000000	1.23863e-21	1.000000
PhCH2CCH+H	5.80841e-22	1.000000	5.80841e-22	1.000000
rad60anti	5.28356e-22	1.000000	5.28356e-22	1.000000
rad33	1.58161e-22	1.000000	1.58161e-22	1.000000
Ph+Allene	1.57463e-22	1.000000	1.57463e-22	1.000000
rad46	1.98856e-23	1.000000	1.98856e-23	1.000000
PAH7+H	7.84519e-24	1.000000	7.84520e-24	1.000000
rad35	4.99326e-24	1.000000	4.99326e-24	1.000000
PAH9+H	2.43982e-24	1.000000	2.43982e-24	1.000000
PAH3+H	6.03289e-25	1.000000	6.03289e-25	1.000000
rad59	2.17568e-25	1.000000	2.17568e-25	1.000000
rad3	6.19171e-26	1.000000	6.19171e-26	1.000000
rad26	5.70834e-26	1.000000	5.70834e-26	1.000000
rad4	3.56789e-26	1.000000	3.56790e-26	1.000000
rad50	8.33594e-30	1.000000	8.33595e-30	1.000000
rad2	2.26546e-30	1.000000	2.26546e-30	1.000000
rad1	2.07303e-31	1.000000	2.07303e-31	1.000000
rad10	8.17785e-32	1.000000	8.17785e-32	1.000000
rad39	7.92546e-32	1.000000	7.92546e-32	1.000000
PhCCH+CH3	4.67922e-32	1.000000	4.67923e-32	1.000000
rad14	1.92475e-33	1.000000	1.92475e-33	1.000000
rad52	4.75426e-34	1.000000	4.75427e-34	1.000000
rad12	1.24315e-34	1.000000	1.24315e-34	1.000000
rad31	1.11895e-34	1.000000	1.11895e-34	1.000000
Ph+MeAc	7.61092e-35	1.000000	7.61093e-35	1.000000
rad37	7.24567e-36	1.000000	7.24567e-36	1.000000
rad51	2.90234e-36	1.000000	2.90234e-36	1.000000
rad58	1.25976e-36	1.000000	1.25976e-36	1.000000
PhCCCH3+H	6.62186e-38	1.000000	6.62186e-38	1.000000
rad27	4.92735e-38	1.000000	4.92735e-38	1.000000
rad70	4.38218e-39	1.000000	4.38218e-39	1.000000
rad54	6.30026e-40	1.000000	6.30026e-40	1.000000
rad19syn	5.56981e-40	1.000000	5.56981e-40	1.000000
rad47	4.41524e-40	1.000000	4.41524e-40	1.000000
PAH10+CH3	7.10133e-42	1.000000	7.10133e-42	1.000000
rad65	6.36418e-42	1.000000	6.36418e-42	1.000000
rad34	7.78620e-43	1.000000	7.78620e-43	1.000000
rad5	1.69900e-43	1.000000	1.69900e-43	1.000000
rad55	5.33522e-44	1.000000	5.33523e-44	1.000000
PhcycC3H3_A+H	2.43061e-45	1.000000	2.43061e-45	1.000000
PAH1+H	3.01099e-46	1.000000	3.01099e-46	1.000000
rad62	1.28479e-46	1.000000	1.28479e-46	1.000000
rad43	1.07464e-49	1.000000	1.07464e-49	1.000000
rad42	4.95218e-53	1.000000	4.95219e-53	1.000000
rad41	1.34681e-56	1.000000	1.34681e-56	1.000000

1000000.00 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 1.76115e-27 (1.00) 1.76115e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.987500	0.987500	0.987501	0.987501
rad21	0.0108049	0.998305	0.0108049	0.998306
rad18	0.00164763	0.999953	0.00164763	0.999954
rad22	4.26614e-05	0.999995	4.26614e-05	0.999996
rad45	1.72312e-06	0.999997	1.72312e-06	0.999998
Indene+H	1.47066e-06	0.999998	1.47066e-06	0.999999
rad24	6.12756e-07	0.999999	6.12756e-07	1.000000
Benzyl+C2H2	6.10919e-07	1.000000	0.000000	1.000000
rad36	1.24984e-07	1.000000	1.24984e-07	1.000000
rad11	2.71820e-08	1.000000	2.71820e-08	1.000000
rad23	4.33783e-10	1.000000	4.33784e-10	1.000000
rad6	6.21287e-13	1.000000	6.21287e-13	1.000000
rad30	1.34199e-14	1.000000	1.34199e-14	1.000000
rad15	1.17129e-15	1.000000	1.17129e-15	1.000000
rad8	1.63125e-16	1.000000	1.63125e-16	1.000000
rad25	1.73351e-18	1.000000	1.73351e-18	1.000000
rad13	8.53165e-20	1.000000	8.53165e-20	1.000000
PhCHCCH2+H	6.26730e-20	1.000000	6.26730e-20	1.000000
rad9	5.41896e-20	1.000000	5.41897e-20	1.000000
rad38	3.08684e-20	1.000000	3.08684e-20	1.000000
rad7	2.38292e-20	1.000000	2.38293e-20	1.000000
rad60syn	1.19208e-20	1.000000	1.19208e-20	1.000000
rad28	6.56755e-21	1.000000	6.56755e-21	1.000000
PhCH2CCH+H	5.32430e-21	1.000000	5.32431e-21	1.000000
rad60anti	2.83029e-21	1.000000	2.83029e-21	1.000000
Ph+Allene	1.00444e-21	1.000000	1.00444e-21	1.000000
rad33	4.62306e-22	1.000000	4.62307e-22	1.000000
rad46	7.83243e-23	1.000000	7.83244e-23	1.000000
PAH7+H	5.31901e-23	1.000000	5.31901e-23	1.000000
rad35	2.91322e-23	1.000000	2.91322e-23	1.000000
PAH9+H	7.98940e-24	1.000000	7.98941e-24	1.000000
PAH3+H	5.61353e-24	1.000000	5.61353e-24	1.000000
rad59	1.96109e-24	1.000000	1.96109e-24	1.000000
rad26	4.85372e-25	1.000000	4.85372e-25	1.000000
rad3	2.66921e-25	1.000000	2.66922e-25	1.000000
rad4	1.53690e-25	1.000000	1.53690e-25	1.000000
rad50	8.57740e-29	1.000000	8.57741e-29	1.000000
rad2	1.50935e-29	1.000000	1.50935e-29	1.000000
rad1	1.37976e-30	1.000000	1.37976e-30	1.000000
rad10	8.53400e-31	1.000000	8.53400e-31	1.000000
rad39	7.13035e-31	1.000000	7.13036e-31	1.000000
PhCCH+CH3	4.41759e-31	1.000000	4.41759e-31	1.000000
rad14	1.59957e-32	1.000000	1.59957e-32	1.000000
rad52	8.49304e-33	1.000000	8.49304e-33	1.000000
rad12	1.45229e-33	1.000000	1.45229e-33	1.000000
Ph+MeAc	9.76957e-34	1.000000	9.76957e-34	1.000000
rad31	4.97448e-34	1.000000	4.97448e-34	1.000000
rad58	1.47834e-34	1.000000	1.47834e-34	1.000000
rad37	9.62069e-35	1.000000	9.62069e-35	1.000000
rad51	9.28894e-35	1.000000	9.28895e-35	1.000000
PhCCCH3+H	9.27131e-37	1.000000	9.27131e-37	1.000000
rad27	5.75385e-37	1.000000	5.75385e-37	1.000000
rad70	3.82604e-37	1.000000	3.82605e-37	1.000000
rad47	2.85920e-38	1.000000	2.85920e-38	1.000000
rad54	2.37489e-38	1.000000	2.37489e-38	1.000000
rad19syn	1.56154e-38	1.000000	1.56154e-38	1.000000
rad65	3.19558e-40	1.000000	3.19558e-40	1.000000
PAH10+CH3	3.19364e-40	1.000000	3.19364e-40	1.000000
rad34	1.02654e-40	1.000000	1.02654e-40	1.000000
rad55	4.82655e-42	1.000000	4.82656e-42	1.000000
rad5	4.11676e-42	1.000000	4.11676e-42	1.000000
PhcycC3H3_A+H	2.39045e-43	1.000000	2.39045e-43	1.000000
PAH1+H	3.94966e-44	1.000000	3.94966e-44	1.000000
rad62	8.43469e-45	1.000000	8.43469e-45	1.000000
rad43	7.16534e-48	1.000000	7.16535e-48	1.000000
rad42	7.47918e-51	1.000000	7.47918e-51	1.000000
rad41	2.10081e-54	1.000000	2.10081e-54	1.000000

1000000.00 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.30956e-27 (1.00)	8.30955e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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rad20	0.986045	0.986045	0.986046	0.986046
rad21	0.0120423	0.998087	0.0120423	0.998088
rad18	0.00185238	0.999940	0.00185238	0.999941
rad22	5.42662e-05	0.999994	5.42662e-05	0.999995
rad45	2.37600e-06	0.999996	2.37600e-06	0.999997
Indene+H	1.90861e-06	0.999998	1.90861e-06	0.999999
Benzyl+C2H2	9.09897e-07	0.999999	0.00000	0.999999
rad24	7.25450e-07	1.000000	7.25451e-07	1.000000
rad36	1.71986e-07	1.00000	1.71986e-07	1.00000
rad11	4.02493e-08	1.00000	4.02493e-08	1.00000
rad23	6.81798e-10	1.00000	6.81799e-10	1.00000
rad6	1.21715e-12	1.00000	1.21715e-12	1.00000
rad30	2.82259e-14	1.00000	2.82259e-14	1.00000
rad15	2.77389e-15	1.00000	2.77390e-15	1.00000
rad8	6.44661e-16	1.00000	6.44661e-16	1.00000
rad25	5.06907e-18	1.00000	5.06908e-18	1.00000
rad9	3.05795e-19	1.00000	3.05796e-19	1.00000
PhCHCCH2+H	2.49644e-19	1.00000	2.49645e-19	1.00000
rad13	2.29190e-19	1.00000	2.29190e-19	1.00000
rad38	8.54642e-20	1.00000	8.54643e-20	1.00000
rad7	6.61642e-20	1.00000	6.61642e-20	1.00000
rad60syn	5.22673e-20	1.00000	5.22674e-20	1.00000
PhCH2CCH+H	4.01596e-20	1.00000	4.01596e-20	1.00000
rad28	3.07729e-20	1.00000	3.07729e-20	1.00000
rad60anti	1.32941e-20	1.00000	1.32941e-20	1.00000
Ph+Allene	5.65203e-21	1.00000	5.65204e-21	1.00000
rad33	1.33257e-21	1.00000	1.33257e-21	1.00000
PAH7+H	3.10697e-22	1.00000	3.10697e-22	1.00000
rad46	2.90101e-22	1.00000	2.90101e-22	1.00000
rad35	1.62177e-22	1.00000	1.62177e-22	1.00000
PAH3+H	4.33964e-23	1.00000	4.33964e-23	1.00000
PAH9+H	2.57680e-23	1.00000	2.57681e-23	1.00000
rad59	1.47080e-23	1.00000	1.47080e-23	1.00000
rad26	3.46226e-24	1.00000	3.46226e-24	1.00000
rad3	1.11831e-24	1.00000	1.11831e-24	1.00000
rad4	6.43613e-25	1.00000	6.43613e-25	1.00000
rad50	7.47176e-28	1.00000	7.47177e-28	1.00000
rad2	9.55148e-29	1.00000	9.55149e-29	1.00000
rad1	8.73204e-30	1.00000	8.73205e-30	1.00000
rad10	7.50098e-30	1.00000	7.50098e-30	1.00000
rad39	5.63627e-30	1.00000	5.63628e-30	1.00000
PhCCH+CH3	3.82146e-30	1.00000	3.82147e-30	1.00000
rad14	1.23415e-31	1.00000	1.23415e-31	1.00000
rad52	1.18039e-31	1.00000	1.18039e-31	1.00000
rad12	1.42566e-32	1.00000	1.42566e-32	1.00000
rad58	1.15634e-32	1.00000	1.15634e-32	1.00000
Ph+MeAc	1.10163e-32	1.00000	1.10164e-32	1.00000
rad31	2.16405e-33	1.00000	2.16405e-33	1.00000
rad51	2.01982e-33	1.00000	2.01982e-33	1.00000
rad37	1.06179e-33	1.00000	1.06179e-33	1.00000
rad70	2.02601e-35	1.00000	2.02601e-35	1.00000
PhCCCH3+H	1.16661e-35	1.00000	1.16662e-35	1.00000
rad27	6.14619e-36	1.00000	6.14619e-36	1.00000
rad47	1.29250e-36	1.00000	1.29250e-36	1.00000
rad54	5.86350e-37	1.00000	5.86350e-37	1.00000
rad19syn	3.18031e-37	1.00000	3.18031e-37	1.00000
rad65	1.08006e-38	1.00000	1.08007e-38	1.00000
rad34	1.02264e-38	1.00000	1.02264e-38	1.00000
PAH10+CH3	9.01299e-39	1.00000	9.01300e-39	1.00000
rad55	2.77873e-40	1.00000	2.77873e-40	1.00000
rad5	8.24963e-41	1.00000	8.24964e-41	1.00000
PhcycC3H3_A+H	1.57182e-41	1.00000	1.57182e-41	1.00000
PAH1+H	3.99493e-42	1.00000	3.99494e-42	1.00000
rad62	3.80955e-43	1.00000	3.80956e-43	1.00000
rad43	3.44301e-46	1.00000	3.44301e-46	1.00000
rad42	7.98302e-49	1.00000	7.98302e-49	1.00000
rad41	2.25520e-52	1.00000	2.25521e-52	1.00000

1000000.00 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.40057e-26 (1.00)	3.40057e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.984412	0.984412	0.984413	0.984413
rad21	0.0134265	0.997838	0.0134265	0.997839
rad18	0.00208433	0.999923	0.00208434	0.999924
rad22	6.91455e-05	0.999992	6.91456e-05	0.999993

rad45	3.27345e-06	0.999995	3.27346e-06	0.999996
Indene+H	2.48525e-06	0.999998	2.48526e-06	0.999999
Benzyl+C2H2	1.34656e-06	0.999999	0.00000	0.999999
rad24	8.56092e-07	1.000000	8.56093e-07	1.000000
rad36	2.36641e-07	1.000000	2.36641e-07	1.000000
rad11	5.96521e-08	1.000000	5.96522e-08	1.000000
rad23	1.07501e-09	1.000000	1.07501e-09	1.000000
rad6	2.37862e-12	1.000000	2.37862e-12	1.000000
rad30	5.79901e-14	1.000000	5.79902e-14	1.000000
rad15	6.33075e-15	1.000000	6.33076e-15	1.000000
rad8	2.28315e-15	1.000000	2.28315e-15	1.000000
rad25	1.42794e-17	1.000000	1.42794e-17	1.000000
rad9	1.51674e-18	1.000000	1.51675e-18	1.000000
PhCHCCH2+H	9.28412e-19	1.000000	9.28413e-19	1.000000
rad13	6.09599e-19	1.000000	6.09599e-19	1.000000
PhCH2CCH+H	2.56034e-19	1.000000	2.56034e-19	1.000000
rad38	2.31149e-19	1.000000	2.31149e-19	1.000000
rad60syn	2.06199e-19	1.000000	2.06200e-19	1.000000
rad7	1.82032e-19	1.000000	1.82033e-19	1.000000
rad28	1.29426e-19	1.000000	1.29426e-19	1.000000
rad60anti	5.57318e-20	1.000000	5.57319e-20	1.000000
Ph+Allene	2.84951e-20	1.000000	2.84952e-20	1.000000
rad33	3.77350e-21	1.000000	3.77351e-21	1.000000
PAH7+H	1.59376e-21	1.000000	1.59376e-21	1.000000
rad46	1.01736e-21	1.000000	1.01736e-21	1.000000
rad35	8.25273e-22	1.000000	8.25274e-22	1.000000
PAH3+H	2.85959e-22	1.000000	2.85959e-22	1.000000
rad59	9.41320e-23	1.000000	9.41321e-23	1.000000
PAH9+H	8.17325e-23	1.000000	8.17327e-23	1.000000
rad26	2.12032e-23	1.000000	2.12033e-23	1.000000
rad3	4.54070e-24	1.000000	4.54071e-24	1.000000
rad4	2.61292e-24	1.000000	2.61293e-24	1.000000
rad50	5.63925e-27	1.000000	5.63926e-27	1.000000
rad2	5.73377e-28	1.000000	5.73378e-28	1.000000
rad10	5.68975e-29	1.000000	5.68976e-29	1.000000
rad1	5.24795e-29	1.000000	5.24795e-29	1.000000
rad39	3.97579e-29	1.000000	3.97579e-29	1.000000
PhCCH+CH3	3.04148e-29	1.000000	3.04149e-29	1.000000
rad52	1.34555e-30	1.000000	1.34555e-30	1.000000
rad14	8.85835e-31	1.000000	8.85836e-31	1.000000
rad58	3.20610e-31	1.000000	3.20611e-31	1.000000
rad12	1.20608e-31	1.000000	1.20608e-31	1.000000
Ph+MeAc	1.10396e-31	1.000000	1.10396e-31	1.000000
rad51	3.27758e-32	1.000000	3.27759e-32	1.000000
rad37	1.00130e-32	1.000000	1.00130e-32	1.000000
rad31	9.19099e-33	1.000000	9.19100e-33	1.000000
rad70	5.34107e-34	1.000000	5.34108e-34	1.000000
PhCCCH3+H	1.32230e-34	1.000000	1.32230e-34	1.000000
rad27	6.01096e-35	1.000000	6.01096e-35	1.000000
rad47	3.74895e-35	1.000000	3.74896e-35	1.000000
rad54	1.02981e-35	1.000000	1.02981e-35	1.000000
rad19syn	4.97882e-36	1.000000	4.97883e-36	1.000000
rad34	4.76380e-37	1.000000	4.76381e-37	1.000000
rad65	2.40512e-37	1.000000	2.40512e-37	1.000000
PAH10+CH3	1.69720e-37	1.000000	1.69720e-37	1.000000
rad55	8.14681e-39	1.000000	8.14682e-39	1.000000
rad5	1.36718e-39	1.000000	1.36719e-39	1.000000
PhcycC3H3_A+H	5.19496e-40	1.000000	5.19497e-40	1.000000
PAH1+H	1.85240e-40	1.000000	1.85241e-40	1.000000
rad62	1.09810e-41	1.000000	1.09810e-41	1.000000
rad43	1.08451e-44	1.000000	1.08451e-44	1.000000
rad42	4.29477e-47	1.000000	4.29477e-47	1.000000
rad41	1.24315e-50	1.000000	1.24315e-50	1.000000

1000000.00 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22971e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.982578	0.982578	0.982580	0.982580
rad21	0.0149753	0.997553	0.0149753	0.997555
rad18	0.00234731	0.999901	0.00234731	0.999903
rad22	8.82364e-05	0.999989	8.82366e-05	0.999991
rad45	4.50428e-06	0.999993	4.50429e-06	0.999995
Indene+H	3.24620e-06	0.999997	3.24621e-06	0.999999
Benzyl+C2H2	1.97955e-06	0.999999	0.00000	0.999999
rad24	1.00681e-06	1.000000	1.00682e-06	1.000000

rad36	3.25444e-07	1.000000	3.25445e-07	1.000000
rad11	8.83954e-08	1.000000	8.83956e-08	1.000000
rad23	1.69877e-09	1.000000	1.69877e-09	1.000000
rad6	4.62793e-12	1.000000	4.62794e-12	1.000000
rad30	1.16603e-13	1.000000	1.16603e-13	1.000000
rad15	1.39803e-14	1.000000	1.39803e-14	1.000000
rad8	7.35061e-15	1.000000	7.35063e-15	1.000000
rad25	3.88425e-17	1.000000	3.88426e-17	1.000000
rad9	6.70824e-18	1.000000	6.70825e-18	1.000000
PhCHCCH2+H	3.24588e-18	1.000000	3.24588e-18	1.000000
rad13	1.60060e-18	1.000000	1.60060e-18	1.000000
PhCH2CCH+H	1.40962e-18	1.000000	1.40963e-18	1.000000
rad60syn	7.42011e-19	1.000000	7.42012e-19	1.000000
rad38	6.11143e-19	1.000000	6.11145e-19	1.000000
rad28	4.95044e-19	1.000000	4.95044e-19	1.000000
rad7	4.94889e-19	1.000000	4.94890e-19	1.000000
rad60anti	2.11630e-19	1.000000	2.11630e-19	1.000000
Ph+Allene	1.30387e-19	1.000000	1.30387e-19	1.000000
rad33	1.04654e-20	1.000000	1.04654e-20	1.000000
PAH7+H	7.29486e-21	1.000000	7.29487e-21	1.000000
rad35	3.80484e-21	1.000000	3.80485e-21	1.000000
rad46	3.39783e-21	1.000000	3.39784e-21	1.000000
PAH3+H	1.63946e-21	1.000000	1.63946e-21	1.000000
rad59	5.24724e-22	1.000000	5.24725e-22	1.000000
PAH9+H	2.54690e-22	1.000000	2.54691e-22	1.000000
rad26	1.13621e-22	1.000000	1.13622e-22	1.000000
rad3	1.78307e-23	1.000000	1.78307e-23	1.000000
rad4	1.02627e-23	1.000000	1.02627e-23	1.000000
rad50	3.75926e-26	1.000000	3.75927e-26	1.000000
rad2	3.26529e-27	1.000000	3.26529e-27	1.000000
rad10	3.79821e-28	1.000000	3.79822e-28	1.000000
rad1	2.99546e-28	1.000000	2.99546e-28	1.000000
rad39	2.53883e-28	1.000000	2.53883e-28	1.000000
PhCCH+CH3	2.24446e-28	1.000000	2.24446e-28	1.000000
rad52	1.30472e-29	1.000000	1.30472e-29	1.000000
rad58	6.87444e-30	1.000000	6.87444e-30	1.000000
rad14	5.93936e-30	1.000000	5.93937e-30	1.000000
Ph+MeAc	1.00563e-30	1.000000	1.00563e-30	1.000000
rad12	8.98997e-31	1.000000	8.98999e-31	1.000000
rad51	4.41497e-31	1.000000	4.41497e-31	1.000000
rad37	8.30534e-32	1.000000	8.30536e-32	1.000000
rad31	3.80494e-32	1.000000	3.80495e-32	1.000000
rad70	1.21748e-32	1.000000	1.21749e-32	1.000000
PhCCCH3+H	1.38985e-33	1.000000	1.38985e-33	1.000000
rad47	9.10374e-34	1.000000	9.10376e-34	1.000000
rad27	5.45830e-34	1.000000	5.45831e-34	1.000000
rad54	1.57306e-34	1.000000	1.57306e-34	1.000000
rad19syn	6.86974e-35	1.000000	6.86976e-35	1.000000
rad34	2.46692e-35	1.000000	2.46693e-35	1.000000
rad65	4.50527e-36	1.000000	4.50528e-36	1.000000
PAH10+CH3	2.87378e-36	1.000000	2.87379e-36	1.000000
rad55	2.19422e-37	1.000000	2.19423e-37	1.000000
rad5	2.09731e-38	1.000000	2.09731e-38	1.000000
PhcycC3H3_A+H	1.67338e-38	1.000000	1.67339e-38	1.000000
PAH1+H	9.23665e-39	1.000000	9.23667e-39	1.000000
rad62	3.04215e-40	1.000000	3.04216e-40	1.000000
rad43	3.31034e-43	1.000000	3.31035e-43	1.000000
rad42	2.55750e-45	1.000000	2.55751e-45	1.000000
rad41	7.09342e-49	1.000000	7.09344e-49	1.000000

1000000.00 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.99090e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.980519	0.980519	0.980522	0.980522
rad21	0.0167077	0.997227	0.0167078	0.997230
rad18	0.00264554	0.999872	0.00264555	0.999875
rad22	0.000112732	0.999985	0.000112732	0.999988
rad45	6.18745e-06	0.999991	6.18747e-06	0.999994
Indene+H	4.25198e-06	0.999995	4.25200e-06	0.999999
Benzyl+C2H2	2.89014e-06	0.999998	0.00000	0.999999
rad24	1.17983e-06	0.999999	1.17983e-06	1.000000
rad36	4.47165e-07	1.000000	4.47166e-07	1.000000
rad11	1.30838e-07	1.000000	1.30838e-07	1.000000
rad23	2.68775e-09	1.000000	2.68775e-09	1.000000
rad6	8.94932e-12	1.000000	8.94934e-12	1.000000

rad30	2.29810e-13	1.00000	2.29811e-13	1.00000
rad15	2.99690e-14	1.00000	2.99691e-14	1.00000
rad8	2.17709e-14	1.00000	2.17709e-14	1.00000
rad25	1.02226e-16	1.00000	1.02226e-16	1.00000
rad9	2.67963e-17	1.00000	2.67963e-17	1.00000
PhCHCCH2+H	1.07294e-17	1.00000	1.07294e-17	1.00000
PhCH2CCH+H	6.82307e-18	1.00000	6.82309e-18	1.00000
rad13	4.13829e-18	1.00000	4.13830e-18	1.00000
rad60syn	2.46348e-18	1.00000	2.46349e-18	1.00000
rad28	1.74101e-18	1.00000	1.74102e-18	1.00000
rad38	1.58088e-18	1.00000	1.58089e-18	1.00000
rad7	1.32660e-18	1.00000	1.32660e-18	1.00000
rad60anti	7.36957e-19	1.00000	7.36959e-19	1.00000
Ph+Allene	5.47338e-19	1.00000	5.47340e-19	1.00000
PAH7+H	3.01949e-20	1.00000	3.01950e-20	1.00000
rad33	2.83561e-20	1.00000	2.83562e-20	1.00000
rad35	1.59546e-20	1.00000	1.59547e-20	1.00000
rad46	1.08622e-20	1.00000	1.08622e-20	1.00000
PAH3+H	8.31719e-21	1.00000	8.31721e-21	1.00000
rad59	2.59111e-21	1.00000	2.59112e-21	1.00000
PAH9+H	7.79289e-22	1.00000	7.79292e-22	1.00000
rad26	5.41299e-22	1.00000	5.41301e-22	1.00000
rad3	6.76138e-23	1.00000	6.76140e-23	1.00000
rad4	3.89380e-23	1.00000	3.89381e-23	1.00000
rad50	2.24837e-25	1.00000	2.24837e-25	1.00000
rad2	1.76234e-26	1.00000	1.76234e-26	1.00000
rad10	2.26017e-27	1.00000	2.26018e-27	1.00000
rad1	1.62230e-27	1.00000	1.62230e-27	1.00000
PhCCH+CH3	1.53288e-27	1.00000	1.53288e-27	1.00000
rad39	1.48029e-27	1.00000	1.48029e-27	1.00000
rad52	1.09123e-28	1.00000	1.09123e-28	1.00000
rad58	9.10037e-29	1.00000	9.10039e-29	1.00000
rad14	3.71696e-29	1.00000	3.71697e-29	1.00000
Ph+MeAc	8.25537e-30	1.00000	8.25539e-30	1.00000
rad12	5.95207e-30	1.00000	5.95209e-30	1.00000
rad51	4.84462e-30	1.00000	4.84463e-30	1.00000
rad37	6.06547e-31	1.00000	6.06548e-31	1.00000
rad70	1.81557e-31	1.00000	1.81557e-31	1.00000
rad31	1.53379e-31	1.00000	1.53379e-31	1.00000
rad47	1.47008e-32	1.00000	1.47008e-32	1.00000
PhCCCH3+H	1.31990e-32	1.00000	1.31991e-32	1.00000
rad27	4.54284e-33	1.00000	4.54285e-33	1.00000
rad54	1.87621e-33	1.00000	1.87622e-33	1.00000
rad19syn	7.73120e-34	1.00000	7.73122e-34	1.00000
rad34	5.77670e-34	1.00000	5.77672e-34	1.00000
rad65	6.26519e-35	1.00000	6.26521e-35	1.00000
PAH10+CH3	3.66102e-35	1.00000	3.66103e-35	1.00000
rad55	3.72708e-36	1.00000	3.72709e-36	1.00000
PhcycC3H3_A+H	3.24356e-37	1.00000	3.24357e-37	1.00000
rad5	2.69083e-37	1.00000	2.69084e-37	1.00000
PAH1+H	2.13008e-37	1.00000	2.13008e-37	1.00000
rad62	5.74343e-39	1.00000	5.74344e-39	1.00000
rad43	6.81928e-42	1.00000	6.81930e-42	1.00000
rad42	7.85210e-44	1.00000	7.85212e-44	1.00000
rad41	2.15512e-47	1.00000	2.15513e-47	1.00000

1000000.00 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17763e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.978208	0.978208	0.978212	0.978212
rad21	0.0186441	0.996852	0.0186441	0.996856
rad18	0.00298372	0.999836	0.00298373	0.999840
rad22	0.000144142	0.999980	0.000144143	0.999984
rad45	8.48135e-06	0.999988	8.48139e-06	0.999992
Indene+H	5.58264e-06	0.999994	5.58266e-06	0.999998
Benzyl+C2H2	4.18986e-06	0.999998	0.00000	0.999998
rad24	1.37740e-06	1.000000	1.37740e-06	0.999999
rad36	6.13578e-07	1.00000	6.13580e-07	1.00000
rad11	1.93254e-07	1.00000	1.93255e-07	1.00000
rad23	4.25358e-09	1.00000	4.25360e-09	1.00000
rad6	1.71752e-11	1.00000	1.71753e-11	1.00000
rad30	4.44479e-13	1.00000	4.44481e-13	1.00000
rad15	6.25259e-14	1.00000	6.25262e-14	1.00000
rad8	5.99152e-14	1.00000	5.99154e-14	1.00000
rad25	2.60714e-16	1.00000	2.60715e-16	1.00000

rad9	9.77589e-17	1.00000	9.77594e-17	1.00000
PhCHCCH2+H	3.36926e-17	1.00000	3.36927e-17	1.00000
PhCH2CCH+H	2.94796e-17	1.00000	2.94797e-17	1.00000
rad13	1.05136e-17	1.00000	1.05136e-17	1.00000
rad60syn	7.61808e-18	1.00000	7.61811e-18	1.00000
rad28	5.68203e-18	1.00000	5.68205e-18	1.00000
rad38	4.00484e-18	1.00000	4.00486e-18	1.00000
rad7	3.50000e-18	1.00000	3.50002e-18	1.00000
rad60anti	2.37790e-18	1.00000	2.37791e-18	1.00000
Ph+Allene	2.12691e-18	1.00000	2.12692e-18	1.00000
PAH7+H	1.14308e-19	1.00000	1.14308e-19	1.00000
rad33	7.49149e-20	1.00000	7.49152e-20	1.00000
rad35	6.13190e-20	1.00000	6.13193e-20	1.00000
PAH3+H	3.78783e-20	1.00000	3.78785e-20	1.00000
rad46	3.33861e-20	1.00000	3.33862e-20	1.00000
rad59	1.14988e-20	1.00000	1.14989e-20	1.00000
PAH9+H	2.34115e-21	1.00000	2.34116e-21	1.00000
rad26	2.32381e-21	1.00000	2.32382e-21	1.00000
rad3	2.47321e-22	1.00000	2.47322e-22	1.00000
rad4	1.42563e-22	1.00000	1.42563e-22	1.00000
rad50	1.22376e-24	1.00000	1.22376e-24	1.00000
rad2	9.00753e-26	1.00000	9.00757e-26	1.00000
rad10	1.21311e-26	1.00000	1.21312e-26	1.00000
PhCCH+CH3	9.67308e-27	1.00000	9.67312e-27	1.00000
rad1	8.33055e-27	1.00000	8.33059e-27	1.00000
rad39	7.94819e-27	1.00000	7.94822e-27	1.00000
rad58	8.49240e-28	1.00000	8.49243e-28	1.00000
rad52	8.03458e-28	1.00000	8.03461e-28	1.00000
rad14	2.16961e-28	1.00000	2.16961e-28	1.00000
Ph+MeAc	6.07874e-29	1.00000	6.07876e-29	1.00000
rad51	4.48345e-29	1.00000	4.48347e-29	1.00000
rad12	3.53409e-29	1.00000	3.53410e-29	1.00000
rad37	3.92824e-30	1.00000	3.92825e-30	1.00000
rad70	1.85132e-30	1.00000	1.85132e-30	1.00000
rad31	6.01673e-31	1.00000	6.01675e-31	1.00000
rad47	1.72356e-31	1.00000	1.72357e-31	1.00000
PhCCCH3+H	1.11045e-31	1.00000	1.11045e-31	1.00000
rad27	3.42923e-32	1.00000	3.42925e-32	1.00000
rad54	1.74560e-32	1.00000	1.74560e-32	1.00000
rad19syn	7.00329e-33	1.00000	7.00332e-33	1.00000
rad34	6.58014e-33	1.00000	6.58017e-33	1.00000
rad65	6.74084e-34	1.00000	6.74086e-34	1.00000
PAH10+CH3	3.41794e-34	1.00000	3.41796e-34	1.00000
rad55	4.01666e-35	1.00000	4.01668e-35	1.00000
PhcycC3H3_A+H	3.66057e-36	1.00000	3.66058e-36	1.00000
rad5	2.76792e-36	1.00000	2.76793e-36	1.00000
PAH1+H	2.34058e-36	1.00000	2.34059e-36	1.00000
rad62	7.01493e-38	1.00000	7.01496e-38	1.00000
rad43	9.00893e-41	1.00000	9.00897e-41	1.00000
rad42	1.09654e-42	1.00000	1.09655e-42	1.00000
rad41	3.23852e-46	1.00000	3.23854e-46	1.00000

1000000.00 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19450e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.975615	0.975615	0.975621	0.975621
rad21	0.0208055	0.996421	0.0208056	0.996427
rad18	0.00336700	0.999788	0.00336702	0.999794
rad22	0.000184370	0.999972	0.000184371	0.999978
rad45	1.15953e-05	0.999983	1.15954e-05	0.999990
Indene+H	7.34375e-06	0.999991	7.34379e-06	0.999997
Benzyl+C2H2	6.30341e-06	0.999997	0.00000	0.999997
rad24	1.60181e-06	0.999998	1.60182e-06	0.999999
rad36	8.40406e-07	0.999999	8.40411e-07	0.999999
rad11	2.84601e-07	1.000000	2.84603e-07	1.000000
rad23	6.72722e-09	1.000000	6.72726e-09	1.000000
rad6	3.26729e-11	1.000000	3.26731e-11	1.000000
rad30	8.44441e-13	1.000000	8.44446e-13	1.000000
rad8	1.54515e-13	1.000000	1.54516e-13	1.000000
rad15	1.27233e-13	1.000000	1.27233e-13	1.000000
rad25	6.45205e-16	1.000000	6.45209e-16	1.000000
rad9	3.28884e-16	1.000000	3.28886e-16	1.000000
PhCH2CCH+H	1.15159e-16	1.000000	1.15160e-16	1.000000
PhCHCCH2+H	1.00914e-16	1.000000	1.00914e-16	1.000000
rad13	2.62013e-17	1.000000	2.62015e-17	1.000000

rad60syn	2.21193e-17	1.000000	2.21194e-17	1.000000
rad28	1.73433e-17	1.000000	1.73434e-17	1.000000
rad38	9.94704e-18	1.000000	9.94710e-18	1.000000
rad7	9.07562e-18	1.000000	9.07567e-18	1.000000
Ph+Allene	7.70897e-18	1.000000	7.70902e-18	1.000000
rad60anti	7.17148e-18	1.000000	7.17152e-18	1.000000
PAH7+H	3.99569e-19	1.000000	3.99571e-19	1.000000
rad35	2.17792e-19	1.000000	2.17793e-19	1.000000
rad33	1.92698e-19	1.000000	1.92699e-19	1.000000
PAH3+H	1.56751e-19	1.000000	1.56752e-19	1.000000
rad46	9.90662e-20	1.000000	9.90668e-20	1.000000
rad59	4.64182e-20	1.000000	4.64184e-20	1.000000
rad26	9.09306e-21	1.000000	9.09312e-21	1.000000
PAH9+H	6.90855e-21	1.000000	6.90859e-21	1.000000
rad3	8.72030e-22	1.000000	8.72035e-22	1.000000
rad4	5.03337e-22	1.000000	5.03340e-22	1.000000
rad50	6.13832e-24	1.000000	6.13836e-24	1.000000
rad2	4.35962e-25	1.000000	4.35965e-25	1.000000
rad10	5.93404e-26	1.000000	5.93408e-26	1.000000
PhCCH+CH3	5.65634e-26	1.000000	5.65638e-26	1.000000
rad1	4.05597e-26	1.000000	4.05599e-26	1.000000
rad39	3.96440e-26	1.000000	3.96443e-26	1.000000
rad58	6.59564e-27	1.000000	6.59568e-27	1.000000
rad52	5.30455e-27	1.000000	5.30458e-27	1.000000
rad14	1.18287e-27	1.000000	1.18288e-27	1.000000
Ph+MeAc	4.05706e-28	1.000000	4.05709e-28	1.000000
rad51	3.62745e-28	1.000000	3.62747e-28	1.000000
rad12	1.90221e-28	1.000000	1.90222e-28	1.000000
rad37	2.28694e-29	1.000000	2.28695e-29	1.000000
rad70	1.56601e-29	1.000000	1.56602e-29	1.000000
rad31	2.29633e-30	1.000000	2.29635e-30	1.000000
rad47	1.69889e-30	1.000000	1.69890e-30	1.000000
PhCCH3+H	8.40998e-31	1.000000	8.41003e-31	1.000000
rad27	2.36299e-31	1.000000	2.36300e-31	1.000000
rad54	1.38164e-31	1.000000	1.38165e-31	1.000000
rad34	6.05425e-32	1.000000	6.05429e-32	1.000000
rad19syn	5.45757e-32	1.000000	5.45760e-32	1.000000
rad65	6.19487e-33	1.000000	6.19491e-33	1.000000
PAH10+CH3	2.68949e-33	1.000000	2.68951e-33	1.000000
rad55	3.56222e-34	1.000000	3.56224e-34	1.000000
PhcycC3H3_A+H	3.37627e-35	1.000000	3.37629e-35	1.000000
rad5	2.45940e-35	1.000000	2.45942e-35	1.000000
PAH1+H	2.07945e-35	1.000000	2.07947e-35	1.000000
rad62	7.07745e-37	1.000000	7.07749e-37	1.000000
rad43	9.81515e-40	1.000000	9.81521e-40	1.000000
rad42	1.23235e-41	1.000000	1.23236e-41	1.000000
rad41	3.92389e-45	1.000000	3.92391e-45	1.000000

1000000.00 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.04134e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.972712	0.972712	0.972720	0.972720
rad21	0.0232140	0.995926	0.0232142	0.995934
rad18	0.00380103	0.999727	0.00380107	0.999735
rad22	0.000235798	0.999963	0.000235800	0.999971
rad45	1.58041e-05	0.999979	1.58042e-05	0.999987
Indene+H	9.67407e-06	0.999988	9.67416e-06	0.999997
Benzyl+C2H2	8.61615e-06	0.999997	0.00000	0.999997
rad24	1.85535e-06	0.999999	1.85537e-06	0.999998
rad36	1.14852e-06	1.000000	1.14852e-06	1.000000
rad11	4.17556e-07	1.000000	4.17559e-07	1.000000
rad23	1.06235e-08	1.000000	1.06236e-08	1.000000
rad6	6.15454e-11	1.000000	6.15459e-11	1.000000
rad30	1.57712e-12	1.000000	1.57713e-12	1.000000
rad8	3.76087e-13	1.000000	3.76090e-13	1.000000
rad15	2.52957e-13	1.000000	2.52959e-13	1.000000
rad25	1.55118e-15	1.000000	1.55119e-15	1.000000
rad9	1.02883e-15	1.000000	1.02883e-15	1.000000
PhCH2CCH+H	4.11197e-16	1.000000	4.11200e-16	1.000000
PhCHCCH2+H	2.89262e-16	1.000000	2.89264e-16	1.000000
rad13	6.39633e-17	1.000000	6.39638e-17	1.000000
rad60syn	6.07078e-17	1.000000	6.07083e-17	1.000000
rad28	4.98373e-17	1.000000	4.98377e-17	1.000000
Ph+Allene	2.62275e-17	1.000000	2.62278e-17	1.000000
rad38	2.42552e-17	1.000000	2.42554e-17	1.000000

rad7	2.31035e-17	1.00000	2.31037e-17	1.000000
rad60anti	2.03641e-17	1.00000	2.03643e-17	1.000000
PAH7+H	1.30015e-18	1.00000	1.30016e-18	1.000000
rad35	7.20382e-19	1.00000	7.20389e-19	1.000000
PAH3+H	5.95479e-19	1.00000	5.95484e-19	1.000000
rad33	4.82070e-19	1.00000	4.82074e-19	1.000000
rad46	2.84896e-19	1.00000	2.84898e-19	1.000000
rad59	1.72195e-19	1.00000	1.72197e-19	1.000000
rad26	3.27469e-20	1.00000	3.27472e-20	1.000000
PAH9+H	2.00440e-20	1.00000	2.00441e-20	1.000000
rad3	2.96236e-21	1.00000	2.96238e-21	1.000000
rad4	1.71289e-21	1.00000	1.71290e-21	1.000000
rad50	2.86885e-23	1.00000	2.86887e-23	1.000000
rad2	1.99755e-24	1.00000	1.99757e-24	1.000000
PhCCH+CH3	3.06896e-25	1.00000	3.06898e-25	1.000000
rad10	2.66713e-25	1.00000	2.66715e-25	1.000000
rad1	1.87196e-25	1.00000	1.87197e-25	1.000000
rad39	1.85046e-25	1.00000	1.85048e-25	1.000000
rad58	4.40790e-26	1.00000	4.40793e-26	1.000000
rad52	3.18442e-26	1.00000	3.18445e-26	1.000000
rad14	6.02740e-27	1.00000	6.02745e-27	1.000000
rad51	2.61123e-27	1.00000	2.61126e-27	1.000000
Ph+MeAc	2.46593e-27	1.00000	2.46595e-27	1.000000
rad12	9.35294e-28	1.00000	9.35302e-28	1.000000
rad37	1.20682e-28	1.00000	1.20683e-28	1.000000
rad70	1.13760e-28	1.00000	1.13761e-28	1.000000
rad47	1.45033e-29	1.00000	1.45034e-29	1.000000
rad31	8.52699e-30	1.00000	8.52706e-30	1.000000
PhCCCH3+H	5.76186e-30	1.00000	5.76191e-30	1.000000
rad27	1.48938e-30	1.00000	1.48939e-30	1.000000
rad54	9.51869e-31	1.00000	9.51877e-31	1.000000
rad34	4.74000e-31	1.00000	4.74005e-31	1.000000
rad19syn	3.72906e-31	1.00000	3.72910e-31	1.000000
rad65	4.98885e-32	1.00000	4.98889e-32	1.000000
PAH10+CH3	1.83535e-32	1.00000	1.83536e-32	1.000000
rad55	2.70369e-33	1.00000	2.70372e-33	1.000000
PhcycC3H3_A+H	2.65901e-34	1.00000	2.65903e-34	1.000000
rad5	1.92207e-34	1.00000	1.92209e-34	1.000000
PAH1+H	1.57509e-34	1.00000	1.57510e-34	1.000000
rad62	6.12110e-36	1.00000	6.12115e-36	1.000000
rad43	9.15315e-39	1.00000	9.15323e-39	1.000000
rad42	1.17461e-40	1.00000	1.17462e-40	1.000000
rad41	4.02617e-44	1.00000	4.02621e-44	1.000000

1000000.00 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89355e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.969464	0.969464	0.969476	0.969476
rad21	0.0258920	0.995356	0.0258923	0.995368
rad18	0.00429196	0.999648	0.00429201	0.999660
rad22	0.000301387	0.999949	0.000301391	0.999962
rad45	2.14652e-05	0.999971	2.14655e-05	0.999983
Indene+H	1.27553e-05	0.999984	1.27554e-05	0.999996
Benzyl+C2H2	1.22198e-05	0.999996	0.00000	0.999996
rad24	2.14029e-06	0.999998	2.14032e-06	0.999998
rad36	1.56542e-06	0.999999	1.56544e-06	1.000000
rad11	6.09890e-07	1.00000	6.09898e-07	1.00000
rad23	1.67390e-08	1.00000	1.67392e-08	1.00000
rad6	1.14697e-10	1.00000	1.14698e-10	1.00000
rad30	2.89748e-12	1.00000	2.89752e-12	1.00000
rad8	8.69226e-13	1.00000	8.69237e-13	1.00000
rad15	4.92077e-13	1.00000	4.92083e-13	1.00000
rad25	3.62654e-15	1.00000	3.62658e-15	1.00000
rad9	3.01408e-15	1.00000	3.01412e-15	1.00000
PhCH2CCH+H	1.35461e-15	1.00000	1.35462e-15	1.00000
PhCHCCH2+H	7.95805e-16	1.00000	7.95815e-16	1.00000
rad60syn	1.58390e-16	1.00000	1.58392e-16	1.00000
rad13	1.52787e-16	1.00000	1.52788e-16	1.00000
rad28	1.35583e-16	1.00000	1.35585e-16	1.00000
Ph+Allene	8.42043e-17	1.00000	8.42053e-17	1.00000
rad38	5.81570e-17	1.00000	5.81577e-17	1.00000
rad7	5.76882e-17	1.00000	5.76889e-17	1.00000
rad60anti	5.47833e-17	1.00000	5.47839e-17	1.00000
PAH7+H	3.96521e-18	1.00000	3.96526e-18	1.00000
rad35	2.23414e-18	1.00000	2.23416e-18	1.00000

PAH3+H	2.09443e-18	1.00000	2.09445e-18	1.00000
rad33	1.17208e-18	1.00000	1.17209e-18	1.00000
rad46	7.97070e-19	1.00000	7.97080e-19	1.00000
rad59	5.92063e-19	1.00000	5.92070e-19	1.00000
rad26	1.09432e-19	1.00000	1.09433e-19	1.00000
PAH9+H	5.72613e-20	1.00000	5.72620e-20	1.00000
rad3	9.69166e-21	1.00000	9.69178e-21	1.00000
rad4	5.61628e-21	1.00000	5.61635e-21	1.00000
rad50	1.26117e-22	1.00000	1.26118e-22	1.00000
rad2	8.65699e-24	1.00000	8.65710e-24	1.00000
PhCCH+CH3	1.54467e-24	1.00000	1.54469e-24	1.00000
rad10	1.10822e-24	1.00000	1.10824e-24	1.00000
rad1	8.18303e-25	1.00000	8.18313e-25	1.00000
rad39	8.13170e-25	1.00000	8.13180e-25	1.00000
rad58	2.56154e-25	1.00000	2.56157e-25	1.00000
rad52	1.75711e-25	1.00000	1.75713e-25	1.00000
rad14	2.86917e-26	1.00000	2.86920e-26	1.00000
rad51	1.69207e-26	1.00000	1.69209e-26	1.00000
Ph+MeAc	1.36713e-26	1.00000	1.36715e-26	1.00000
rad12	4.22217e-27	1.00000	4.22223e-27	1.00000
rad70	7.16571e-28	1.00000	7.16580e-28	1.00000
rad37	5.80019e-28	1.00000	5.80026e-28	1.00000
rad47	1.08770e-28	1.00000	1.08771e-28	1.00000
PhCCCH3+H	3.57393e-29	1.00000	3.57398e-29	1.00000
rad31	3.08095e-29	1.00000	3.08099e-29	1.00000
rad27	8.58463e-30	1.00000	8.58473e-30	1.00000
rad54	5.75609e-30	1.00000	5.75616e-30	1.00000
rad34	3.18164e-30	1.00000	3.18168e-30	1.00000
rad19syn	2.24937e-30	1.00000	2.24940e-30	1.00000
rad65	3.56564e-31	1.00000	3.56568e-31	1.00000
PAH10+CH3	1.09471e-31	1.00000	1.09472e-31	1.00000
rad55	1.77203e-32	1.00000	1.77205e-32	1.00000
PhcycC3H3_A+H	1.80275e-33	1.00000	1.80277e-33	1.00000
rad5	1.32883e-33	1.00000	1.32885e-33	1.00000
PAH1+H	1.02388e-33	1.00000	1.02390e-33	1.00000
rad62	4.58059e-35	1.00000	4.58065e-35	1.00000
rad43	7.37716e-38	1.00000	7.37725e-38	1.00000
rad42	9.57595e-40	1.00000	9.57607e-40	1.00000
rad41	3.53228e-43	1.00000	3.53233e-43	1.00000

1000000.00 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.20008e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.965838	0.965838	0.965855	0.965855
rad21	0.0288621	0.994700	0.0288626	0.994718
rad18	0.00484644	0.999547	0.00484652	0.999564
rad22	0.000384797	0.999931	0.000384803	0.999949
rad45	2.90407e-05	0.999960	2.90412e-05	0.999978
Benzyl+C2H2	1.72020e-05	0.999978	0.00000	0.999978
Indene+H	1.68242e-05	0.999994	1.68245e-05	0.999995
rad24	2.45884e-06	0.999997	2.45888e-06	0.999997
rad36	2.12718e-06	0.999999	2.12721e-06	0.999999
rad11	8.86285e-07	1.000000	8.86300e-07	1.000000
rad23	2.62996e-08	1.000000	2.63001e-08	1.000000
rad6	2.11325e-10	1.000000	2.11328e-10	1.000000
rad30	5.23938e-12	1.000000	5.23948e-12	1.000000
rad8	1.91766e-12	1.000000	1.91769e-12	1.000000
rad15	9.37756e-13	1.000000	9.37772e-13	1.000000
rad9	8.32050e-15	1.000000	8.32064e-15	1.000000
rad25	8.25221e-15	1.000000	8.25235e-15	1.000000
PhCH2CCH+H	4.14992e-15	1.000000	4.14999e-15	1.000000
PhCHCCH2+H	2.10648e-15	1.000000	2.10651e-15	1.000000
rad60syn	3.94726e-16	1.000000	3.94733e-16	1.000000
rad13	3.56783e-16	1.000000	3.56789e-16	1.000000
rad28	3.50888e-16	1.000000	3.50894e-16	1.000000
Ph+Allene	2.56239e-16	1.000000	2.56243e-16	1.000000
rad7	1.41188e-16	1.000000	1.41191e-16	1.000000
rad60anti	1.40352e-16	1.000000	1.40354e-16	1.000000
rad38	1.37367e-16	1.000000	1.37369e-16	1.000000
PAH7+H	1.14011e-17	1.000000	1.14013e-17	1.000000
PAH3+H	6.86930e-18	1.000000	6.86942e-18	1.000000
rad35	6.53478e-18	1.000000	6.53489e-18	1.000000
rad33	2.76848e-18	1.000000	2.76852e-18	1.000000
rad46	2.17777e-18	1.000000	2.17781e-18	1.000000
rad59	1.90042e-18	1.000000	1.90045e-18	1.000000

rad26	3.41703e-19	1.000000	3.41709e-19	1.00000
PAH9+H	1.61398e-19	1.000000	1.61400e-19	1.00000
rad3	3.05239e-20	1.000000	3.05244e-20	1.00000
rad4	1.77359e-20	1.000000	1.77362e-20	1.00000
rad50	5.25674e-22	1.000000	5.25683e-22	1.00000
rad2	3.54554e-23	1.000000	3.54560e-23	1.00000
PhCCH+CH3	7.21584e-24	1.000000	7.21596e-24	1.00000
rad10	4.27817e-24	1.000000	4.27824e-24	1.00000
rad1	3.38532e-24	1.000000	3.38537e-24	1.00000
rad39	3.38341e-24	1.000000	3.38347e-24	1.00000
rad58	1.31161e-24	1.000000	1.31163e-24	1.00000
rad52	8.99065e-25	1.000000	8.99081e-25	1.00000
rad14	1.27581e-25	1.000000	1.27583e-25	1.00000
rad51	9.97091e-26	1.000000	9.97108e-26	1.00000
Ph+MeAc	6.93359e-26	1.000000	6.93371e-26	1.00000
rad12	1.75768e-26	1.000000	1.75771e-26	1.00000
rad70	3.96606e-27	1.000000	3.96613e-27	1.00000
rad37	2.55103e-27	1.000000	2.55107e-27	1.00000
rad47	7.26515e-28	1.000000	7.26528e-28	1.00000
PhCCCH3+H	2.01379e-28	1.000000	2.01383e-28	1.00000
rad31	1.08331e-28	1.000000	1.08333e-28	1.00000
rad27	4.53264e-29	1.000000	4.53271e-29	1.00000
rad54	3.08735e-29	1.000000	3.08741e-29	1.00000
rad34	1.85979e-29	1.000000	1.85983e-29	1.00000
rad19syn	1.20856e-29	1.000000	1.20858e-29	1.00000
rad65	2.29045e-30	1.000000	2.29049e-30	1.00000
PAH10+CH3	5.77240e-31	1.000000	5.77250e-31	1.00000
rad55	1.01690e-31	1.000000	1.01692e-31	1.00000
PhcycC3H3_A+H	1.06746e-32	1.000000	1.06748e-32	1.00000
rad5	8.19893e-33	1.000000	8.19907e-33	1.00000
PAH1+H	5.80147e-33	1.000000	5.80157e-33	1.00000
rad62	3.00724e-34	1.000000	3.00729e-34	1.00000
rad43	5.21100e-37	1.000000	5.21109e-37	1.00000
rad42	6.78773e-39	1.000000	6.78785e-39	1.00000
rad41	2.69278e-42	1.000000	2.69283e-42	1.00000

1000000.00 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17730e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.942584	0.942584	0.942669	0.942669
rad21	0.0469097	0.989494	0.0469139	0.989583
rad18	0.00867765	0.998171	0.00867843	0.998261
rad22	0.00148983	0.999661	0.00148997	0.999751
rad45	0.000150509	0.999812	0.000150522	0.999902
Benzyl+C2H2	8.93208e-05	0.999901	0.00000	0.999902
Indene+H	8.15114e-05	0.999983	8.15187e-05	0.999983
rad11	6.49101e-06	0.999989	6.49159e-06	0.999990
rad36	5.73744e-06	0.999995	5.73795e-06	0.999996
rad24	4.43519e-06	0.999999	4.43559e-06	1.00000
rad23	4.85004e-07	1.000000	4.85047e-07	1.00000
rad6	9.55362e-09	1.000000	9.55448e-09	1.00000
rad30	1.36519e-10	1.000000	1.36531e-10	1.00000
rad9	5.56740e-11	1.000000	5.56789e-11	1.00000
rad15	2.71978e-11	1.000000	2.72002e-11	1.00000
rad25	1.32752e-12	1.000000	1.32764e-12	1.00000
PhCHCCH2+H	1.02985e-12	1.000000	1.02994e-12	1.00000
PhCH2CCH+H	7.20936e-13	1.000000	7.21000e-13	1.00000
Ph+Allene	2.21498e-13	1.000000	2.21517e-13	1.00000
rad38	1.98179e-13	1.000000	1.98197e-13	1.00000
rad13	8.88351e-14	1.000000	8.88430e-14	1.00000
rad7	7.61548e-14	1.000000	7.61616e-14	1.00000
rad28	6.30004e-14	1.000000	6.30060e-14	1.00000
rad60syn	6.23372e-14	1.000000	6.23427e-14	1.00000
rad60anti	2.64098e-14	1.000000	2.64122e-14	1.00000
rad46	1.58684e-14	1.000000	1.58698e-14	1.00000
PAH9+H	9.97968e-15	1.000000	9.98057e-15	1.00000
PAH3+H	7.92162e-15	1.000000	7.92233e-15	1.00000
rad35	5.16098e-15	1.000000	5.16144e-15	1.00000
PAH7+H	4.32966e-15	1.000000	4.33005e-15	1.00000
rad59	1.58756e-15	1.000000	1.58770e-15	1.00000
rad33	6.06992e-16	1.000000	6.07046e-16	1.00000
rad50	4.50355e-16	1.000000	4.50395e-16	1.00000
rad26	2.20589e-16	1.000000	2.20609e-16	1.00000
rad3	1.24527e-16	1.000000	1.24538e-16	1.00000
rad4	7.01380e-17	1.000000	7.01443e-17	1.00000

rad12	3.46006e-17	1.000000	3.46037e-17	1.00000
rad19anti	3.43893e-17	1.000000	3.43923e-17	1.00000
rad39	2.75761e-17	1.000000	2.75786e-17	1.00000
rad51	1.23672e-17	1.000000	1.23683e-17	1.00000
rad52	1.12581e-17	1.000000	1.12591e-17	1.00000
PhCCH+CH3	3.59342e-18	1.000000	3.59374e-18	1.00000
rad8	3.41049e-18	1.000000	3.41079e-18	1.00000
rad2	2.73529e-18	1.000000	2.73553e-18	1.00000
rad10	4.97534e-19	1.000000	4.97578e-19	1.00000
rad19syn	3.08298e-19	1.000000	3.08326e-19	1.00000
rad1	2.51067e-19	1.000000	2.51089e-19	1.00000
Ph+MeAc	1.88879e-19	1.000000	1.88896e-19	1.00000
rad58	7.06551e-20	1.000000	7.06614e-20	1.00000
rad65	4.66261e-20	1.000000	4.66302e-20	1.00000
PhCCCH3+H	2.84625e-20	1.000000	2.84650e-20	1.00000
rad37	2.56191e-20	1.000000	2.56214e-20	1.00000
rad67	1.92691e-20	1.000000	1.92708e-20	1.00000
rad14	1.69360e-20	1.000000	1.69375e-20	1.00000
rad70	1.15420e-20	1.000000	1.15431e-20	1.00000
rad47	6.08161e-21	1.000000	6.08216e-21	1.00000
PAH10+CH3	6.01992e-21	1.000000	6.02046e-21	1.00000
PAH1+H	2.69954e-21	1.000000	2.69978e-21	1.00000
rad73	1.53801e-21	1.000000	1.53814e-21	1.00000
rad34	9.23807e-22	1.000000	9.23890e-22	1.00000
rad71	5.75282e-22	1.000000	5.75334e-22	1.00000
rad54	4.46614e-22	1.000000	4.46654e-22	1.00000
PhcycC3H3_A+H	1.97437e-22	1.000000	1.97455e-22	1.00000
rad5	1.68772e-22	1.000000	1.68787e-22	1.00000
rad27	7.20022e-23	1.000000	7.20086e-23	1.00000
rad64	2.16678e-23	1.000000	2.16698e-23	1.00000
rad55	2.00698e-23	1.000000	2.00715e-23	1.00000
rad62	8.91414e-24	1.000000	8.91494e-24	1.00000
rad68syn	4.50978e-24	1.000000	4.51019e-24	1.00000
rad68anti	3.03266e-24	1.000000	3.03293e-24	1.00000
PAH8+H	2.16927e-24	1.000000	2.16947e-24	1.00000
rad43	1.61271e-24	1.000000	1.61285e-24	1.00000
rad53	1.09383e-24	1.000000	1.09393e-24	1.00000
rad31	1.01231e-24	1.000000	1.01240e-24	1.00000
rad61	9.66913e-25	1.000000	9.67000e-25	1.00000
rad72	8.90132e-25	1.000000	8.90211e-25	1.00000
rad40syn	5.48064e-25	1.000000	5.48113e-25	1.00000
rad56	4.94666e-25	1.000000	4.94710e-25	1.00000
rad42	2.37047e-25	1.000000	2.37068e-25	1.00000
rad40anti	2.34238e-25	1.000000	2.34259e-25	1.00000
rad41	3.49037e-26	1.000000	3.49068e-26	1.00000

1000000.00 Pa, 310.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.44453e-22 (1.00)	2.44445e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.957311	0.957311	0.957343	0.957343
rad21	0.0357657	0.993077	0.0357669	0.993110
rad18	0.00617513	0.999252	0.00617534	0.999285
rad22	0.000623974	0.999876	0.000623994	0.999909
rad45	5.24586e-05	0.999928	5.24604e-05	0.999962
Benzyl+C2H2	3.33323e-05	0.999962	0.00000	0.999962
Indene+H	2.92444e-05	0.999991	2.92454e-05	0.999991
rad36	3.88625e-06	0.999995	3.88638e-06	0.999995
rad24	3.20521e-06	0.999998	3.20532e-06	0.999998
rad11	1.83919e-06	1.000000	1.83925e-06	1.000000
rad23	6.42468e-08	1.000000	6.42489e-08	1.000000
rad6	6.91731e-10	1.000000	6.91754e-10	1.000000
rad30	1.63652e-11	1.000000	1.63657e-11	1.000000
rad8	8.25922e-12	1.000000	8.25950e-12	1.000000
rad15	3.21481e-12	1.000000	3.21492e-12	1.000000
rad9	5.41419e-14	1.000000	5.41437e-14	1.000000
rad25	3.95163e-14	1.000000	3.95176e-14	1.000000
PhCH2CCH+H	3.21565e-14	1.000000	3.21576e-14	1.000000
PhCHCCH2+H	1.32486e-14	1.000000	1.32491e-14	1.000000
rad60syn	2.16976e-15	1.000000	2.16984e-15	1.000000
rad28	2.05530e-15	1.000000	2.05537e-15	1.000000
Ph+Allene	2.04883e-15	1.000000	2.04890e-15	1.000000
rad13	1.81312e-15	1.000000	1.81318e-15	1.000000
rad60anti	8.09202e-16	1.000000	8.09229e-16	1.000000
rad7	7.94519e-16	1.000000	7.94545e-16	1.000000
rad38	7.39092e-16	1.000000	7.39117e-16	1.000000

PAH7+H	8.05079e-17	1.000000	8.05106e-17	1.000000
PAH3+H	6.13029e-17	1.000000	6.13049e-17	1.000000
rad35	4.78148e-17	1.000000	4.78164e-17	1.000000
rad59	1.63016e-17	1.000000	1.63021e-17	1.000000
rad46	1.53722e-17	1.000000	1.53727e-17	1.000000
rad33	1.41562e-17	1.000000	1.41567e-17	1.000000
rad26	2.78049e-18	1.000000	2.78058e-18	1.000000
PAH9+H	1.24393e-18	1.000000	1.24397e-18	1.000000
rad3	2.69633e-19	1.000000	2.69642e-19	1.000000
rad4	1.57748e-19	1.000000	1.57753e-19	1.000000
rad50	7.96525e-21	1.000000	7.96552e-21	1.000000
rad2	5.00770e-22	1.000000	5.00787e-22	1.000000
PhCCH+CH3	1.26511e-22	1.000000	1.26515e-22	1.000000
rad10	5.19274e-23	1.000000	5.19292e-23	1.000000
rad39	5.07444e-23	1.000000	5.07461e-23	1.000000
rad1	4.90033e-23	1.000000	4.90049e-23	1.000000
rad58	2.45919e-23	1.000000	2.45927e-23	1.000000
rad52	1.92274e-23	1.000000	1.92281e-23	1.000000
rad51	2.68032e-24	1.000000	2.68041e-24	1.000000
rad14	2.06030e-24	1.000000	2.06037e-24	1.000000
Ph+MeAc	1.38465e-24	1.000000	1.38470e-24	1.000000
rad12	2.42508e-25	1.000000	2.42516e-25	1.000000
rad70	8.62068e-26	1.000000	8.62097e-26	1.000000
rad37	3.84792e-26	1.000000	3.84805e-26	1.000000
rad47	2.38252e-26	1.000000	2.38260e-26	1.000000
PhCCCH3+H	4.87808e-27	1.000000	4.87824e-27	1.000000
rad31	1.23457e-27	1.000000	1.23461e-27	1.000000
rad27	9.82545e-28	1.000000	9.82577e-28	1.000000
rad54	6.43061e-28	1.000000	6.43083e-28	1.000000
rad34	4.41732e-28	1.000000	4.41747e-28	1.000000
rad19syn	2.54745e-28	1.000000	2.54754e-28	1.000000
rad65	7.12076e-29	1.000000	7.12100e-29	1.000000
PAH10+CH3	1.15390e-29	1.000000	1.15394e-29	1.000000
rad55	2.35527e-30	1.000000	2.35535e-30	1.000000
PhcycC3H3_A+H	2.61639e-31	1.000000	2.61648e-31	1.000000
rad5	2.29348e-31	1.000000	2.29355e-31	1.000000
PAH1+H	1.29785e-31	1.000000	1.29790e-31	1.000000
rad62	9.17212e-33	1.000000	9.17243e-33	1.000000
rad43	1.83417e-35	1.000000	1.83423e-35	1.000000
rad42	2.36393e-37	1.000000	2.36401e-37	1.000000
rad41	1.08150e-40	1.000000	1.08154e-40	1.000000

1000000.00 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.60269e-20 (1.00)	3.59793e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.847207	0.847207	0.848328	0.848328
rad21	0.110648	0.957855	0.110794	0.959122
rad18	0.0262645	0.984120	0.0262993	0.985421
rad22	0.0116257	0.995745	0.0116411	0.997062
rad45	0.00162396	0.997369	0.00162611	0.998689
Benzyl+C2H2	0.00132131	0.998690	0.000000	0.998689
Indene+H	0.00105645	0.999747	0.00105785	0.999746
rad11	0.000118635	0.999866	0.000118792	0.999865
rad36	6.75212e-05	0.999933	6.76105e-05	0.999933
rad23	5.30698e-05	0.999986	5.31400e-05	0.999986
rad24	1.29685e-05	0.999999	1.29856e-05	0.999999
rad6	8.87116e-07	1.00000	8.88290e-07	1.000000
rad30	1.02168e-08	1.00000	1.02303e-08	1.000000
PAH9+H	9.19463e-09	1.00000	9.20680e-09	1.000000
rad9	8.01784e-09	1.00000	8.02845e-09	1.000000
rad38	7.71174e-09	1.00000	7.72195e-09	1.000000
rad15	1.96811e-09	1.00000	1.97071e-09	1.000000
rad46	1.74045e-09	1.00000	1.74275e-09	1.000000
rad35	1.58784e-09	1.00000	1.58994e-09	1.000000
PhCH2CCH+H	1.26700e-09	1.00000	1.26868e-09	1.000000
Ph+Allene	1.13866e-09	1.00000	1.14017e-09	1.000000
PhCHCCH2+H	1.12047e-09	1.00000	1.12195e-09	1.000000
PAH7+H	6.11735e-10	1.00000	6.12544e-10	1.000000
rad50	5.78104e-10	1.00000	5.78869e-10	1.000000
rad28	4.21156e-10	1.00000	4.21714e-10	1.000000
rad25	2.44815e-10	1.00000	2.45139e-10	1.000000
rad39	1.72277e-10	1.00000	1.72505e-10	1.000000
rad51	8.96149e-11	1.00000	8.97335e-11	1.000000
rad7	6.01439e-11	1.00000	6.02235e-11	1.000000
rad52	3.65116e-11	1.00000	3.65599e-11	1.000000

PhCCH+CH3	3.14652e-11	1.00000	3.15068e-11	1.000000
rad13	1.94516e-11	1.00000	1.94773e-11	1.000000
PAH3+H	1.84576e-11	1.00000	1.84820e-11	1.000000
rad26	1.82671e-11	1.00000	1.82913e-11	1.000000
rad60syn	1.65483e-11	1.00000	1.65702e-11	1.000000
Ph+MeAc	1.12989e-11	1.00000	1.13139e-11	1.000000
rad19anti	1.06002e-11	1.00000	1.06143e-11	1.000000
rad60anti	7.90363e-12	1.00000	7.91409e-12	1.000000
PhCCCH3+H	3.57646e-12	1.00000	3.58119e-12	1.000000
PAH10+CH3	2.87355e-12	1.00000	2.87735e-12	1.000000
rad37	2.59970e-12	1.00000	2.60314e-12	1.000000
rad59	2.36818e-12	1.00000	2.37132e-12	1.000000
rad65	1.95861e-12	1.00000	1.96120e-12	1.000000
rad10	1.74397e-12	1.00000	1.74628e-12	1.000000
rad2	1.72621e-12	1.00000	1.72850e-12	1.000000
PAH1+H	1.33093e-12	1.00000	1.33270e-12	1.000000
rad73	5.72319e-13	1.00000	5.73076e-13	1.000000
rad71	5.65881e-13	1.00000	5.66629e-13	1.000000
rad19syn	3.45387e-13	1.00000	3.45844e-13	1.000000
rad3	3.34651e-13	1.00000	3.35094e-13	1.000000
rad67	2.80582e-13	1.00000	2.80953e-13	1.000000
rad70	2.39639e-13	1.00000	2.39957e-13	1.000000
rad4	1.97315e-13	1.00000	1.97576e-13	1.000000
rad1	1.90838e-13	1.00000	1.91091e-13	1.000000
PhcycC3H3_A+H	1.65368e-13	1.00000	1.65587e-13	1.000000
rad54	1.37497e-13	1.00000	1.37679e-13	1.000000
rad33	1.12244e-13	1.00000	1.12392e-13	1.000000
rad58	8.32413e-14	1.00000	8.33514e-14	1.000000
rad34	5.15994e-14	1.00000	5.16677e-14	1.000000
rad64	2.00776e-14	1.00000	2.01041e-14	1.000000
rad72	9.51877e-15	1.00000	9.53137e-15	1.000000
rad55	9.27537e-15	1.00000	9.28764e-15	1.000000
rad62	6.37968e-15	1.00000	6.38812e-15	1.000000
rad12	5.38949e-15	1.00000	5.39663e-15	1.000000
PAH8+H	4.92744e-15	1.00000	4.93396e-15	1.000000
rad61	2.93355e-15	1.00000	2.93743e-15	1.000000
rad68syn	2.29899e-15	1.00000	2.30203e-15	1.000000
rad53	1.79546e-15	1.00000	1.79783e-15	1.000000
rad56	1.55934e-15	1.00000	1.56140e-15	1.000000
rad68anti	1.50656e-15	1.00000	1.50855e-15	1.000000
rad43	1.48931e-15	1.00000	1.49128e-15	1.000000
rad40syn	6.83856e-16	1.00000	6.84761e-16	1.000000
rad47	6.32206e-16	1.00000	6.33043e-16	1.000000
rad14	5.04332e-16	1.00000	5.04999e-16	1.000000
rad42	4.44940e-16	1.00000	4.45528e-16	1.000000
rad40anti	3.80551e-16	1.00000	3.81054e-16	1.000000
rad5	2.22608e-16	1.00000	2.22903e-16	1.000000
rad27	1.06106e-16	1.00000	1.06247e-16	1.000000
rad41	8.68381e-17	1.00000	8.69530e-17	1.000000
rad8	6.22580e-17	1.00000	6.23404e-17	1.000000
rad31	3.77151e-20	1.00000	3.77650e-20	1.000000

1000000.00 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.21209e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.676008	0.676008	0.683738	0.683738
rad21	0.177019	0.853027	0.179043	0.862781
rad18	0.0611974	0.914224	0.0618971	0.924678
rad22	0.0535866	0.967811	0.0541993	0.978877
Benzyl+C2H2	0.0113051	0.979116	0.00000	0.978877
Indene+H	0.0102320	0.989348	0.0103490	0.989226
rad45	0.00749358	0.996842	0.00757926	0.996806
rad23	0.00158842	0.998430	0.00160658	0.998412
rad11	0.00106070	0.999491	0.00107283	0.999485
rad36	0.000368280	0.999859	0.000372491	0.999858
rad6	3.52378e-05	0.999894	3.56407e-05	0.999893
rad24	3.14476e-05	0.999926	3.18072e-05	0.999925
PAH9+H	2.72565e-05	0.999953	2.75682e-05	0.999953
rad38	1.38957e-05	0.999967	1.40545e-05	0.999967
Ph+Allene	4.61708e-06	0.999972	4.66988e-06	0.999971
rad46	4.53166e-06	0.999976	4.58347e-06	0.999976
PhCH2CCH+H	4.08002e-06	0.999980	4.12667e-06	0.999980
rad35	4.03608e-06	0.999984	4.08223e-06	0.999984
PAH7+H	4.02732e-06	0.999988	4.07337e-06	0.999988
rad50	3.85579e-06	0.999992	3.89988e-06	0.999992

PhCHCCH2+H	2.69737e-06	0.999995	2.72822e-06	0.999995
rad39	1.66686e-06	0.999996	1.68591e-06	0.999996
rad51	1.08546e-06	0.999998	1.09787e-06	0.999998
rad9	6.53772e-07	0.999998	6.61248e-07	0.999998
rad30	3.91340e-07	0.999999	3.95815e-07	0.999999
rad52	3.28517e-07	0.999999	3.32274e-07	0.999999
PhCCH+CH3	2.02944e-07	0.999999	2.05264e-07	0.999999
rad28	1.39249e-07	0.999999	1.40841e-07	0.999999
rad19anti	1.36209e-07	0.999999	1.37766e-07	0.999999
PAH3+H	1.20321e-07	0.999999	1.21697e-07	1.000000
Ph+MeAc	1.01349e-07	1.000000	1.02508e-07	1.000000
PAH10+CH3	7.19231e-08	1.000000	7.27455e-08	1.000000
rad15	4.66347e-08	1.000000	4.71680e-08	1.000000
PAH1+H	3.59712e-08	1.000000	3.63825e-08	1.000000
rad37	3.28620e-08	1.000000	3.32377e-08	1.000000
rad71	3.21579e-08	1.000000	3.25256e-08	1.000000
PhCCCH3+H	3.05498e-08	1.000000	3.08992e-08	1.000000
rad65	2.78206e-08	1.000000	2.81387e-08	1.000000
rad73	2.39438e-08	1.000000	2.42176e-08	1.000000
rad7	1.77253e-08	1.000000	1.79279e-08	1.000000
rad25	1.17428e-08	1.000000	1.18771e-08	1.000000
rad59	1.14496e-08	1.000000	1.15805e-08	1.000000
rad60syn	1.00786e-08	1.000000	1.01939e-08	1.000000
rad26	9.76479e-09	1.000000	9.87644e-09	1.000000
rad67	8.33758e-09	1.000000	8.43291e-09	1.000000
rad60anti	6.17355e-09	1.000000	6.24414e-09	1.000000
rad19syn	6.04401e-09	1.000000	6.11312e-09	1.000000
rad70	4.56845e-09	1.000000	4.62069e-09	1.000000
PhcycC3H3_A+H	4.01807e-09	1.000000	4.06402e-09	1.000000
rad54	2.47522e-09	1.000000	2.50353e-09	1.000000
rad58	1.28956e-09	1.000000	1.30431e-09	1.000000
rad13	1.27859e-09	1.000000	1.29321e-09	1.000000
rad34	1.23954e-09	1.000000	1.25371e-09	1.000000
rad2	1.23729e-09	1.000000	1.25144e-09	1.000000
rad10	1.18549e-09	1.000000	1.19905e-09	1.000000
rad72	9.98196e-10	1.000000	1.00961e-09	1.000000
rad64	6.73470e-10	1.000000	6.81171e-10	1.000000
PAH8+H	3.67309e-10	1.000000	3.71509e-10	1.000000
rad62	2.43053e-10	1.000000	2.45832e-10	1.000000
rad55	1.89069e-10	1.000000	1.91231e-10	1.000000
rad1	1.70661e-10	1.000000	1.72612e-10	1.000000
rad3	1.56223e-10	1.000000	1.58009e-10	1.000000
rad61	1.47302e-10	1.000000	1.48987e-10	1.000000
rad68syn	1.08436e-10	1.000000	1.09676e-10	1.000000
rad4	9.68266e-11	1.000000	9.79338e-11	1.000000
rad68anti	7.04614e-11	1.000000	7.12671e-11	1.000000
rad56	6.43760e-11	1.000000	6.51121e-11	1.000000
rad53	5.88492e-11	1.000000	5.95221e-11	1.000000
rad43	5.06078e-11	1.000000	5.11864e-11	1.000000
rad40syn	4.26771e-11	1.000000	4.31651e-11	1.000000
rad40anti	2.56483e-11	1.000000	2.59415e-11	1.000000
rad42	2.36505e-11	1.000000	2.39209e-11	1.000000
rad47	1.16908e-11	1.000000	1.18245e-11	1.000000
rad33	6.75623e-12	1.000000	6.83348e-12	1.000000
rad41	4.53629e-12	1.000000	4.58816e-12	1.000000
rad12	7.58425e-13	1.000000	7.67097e-13	1.000000
rad14	2.65630e-13	1.000000	2.68668e-13	1.000000
rad5	1.67346e-13	1.000000	1.69259e-13	1.000000
rad27	6.99407e-14	1.000000	7.07404e-14	1.000000
rad8	1.15093e-15	1.000000	1.16409e-15	1.000000
rad31	7.43237e-16	1.000000	7.51735e-16	1.000000

1000000.00 Pa, 600.000000 K

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

 Total | 1.36947e-17 (1.00) | 1.29377e-17 (1.00)

species | PYtrue | Cumul | PYeffective | Cumul

 rad20 | 0.457658 | 0.457658 | 0.484436 | 0.484436
 rad21 | 0.178037 | 0.635695 | 0.188454 | 0.672890
 rad22 | 0.134016 | 0.769711 | 0.141857 | 0.814747
 rad18 | 0.0925727 | 0.862284 | 0.0979892 | 0.912736
 Indene+H | 0.0575354 | 0.919819 | 0.0609019 | 0.973638
 Benzyl+C2H2 | 0.0552765 | 0.975096 | 0.000000 | 0.973638
 rad45 | 0.0124601 | 0.987556 | 0.0131892 | 0.986827
 rad23 | 0.00478330 | 0.992339 | 0.00506317 | 0.991890
 rad11 | 0.00443328 | 0.996772 | 0.00469267 | 0.996583
 rad36 | 0.000760397 | 0.997533 | 0.000804889 | 0.997388

PAH9+H	0.000661373	0.998194	0.000700070	0.998088
rad6	0.000487601	0.998682	0.000516131	0.998604
rad38	0.000328778	0.999010	0.000348015	0.998952
rad50	0.000125305	0.999136	0.000132637	0.999085
PAH7+H	0.000124812	0.999261	0.000132115	0.999217
Ph+Allene	0.000121825	0.999382	0.000128953	0.999346
rad46	0.000117548	0.999500	0.000124426	0.999470
PhCH2CCH+H	0.000108918	0.999609	0.000115291	0.999586
rad35	9.29761e-05	0.999702	9.84162e-05	0.999684
PhCHCCH2+H	7.35810e-05	0.999775	7.78863e-05	0.999762
rad24	7.19564e-05	0.999847	7.61667e-05	0.999838
rad39	5.74732e-05	0.999905	6.08360e-05	0.999899
rad51	3.99211e-05	0.999945	4.22569e-05	0.999941
rad52	1.13524e-05	0.999956	1.20166e-05	0.999953
rad9	7.86434e-06	0.999964	8.32449e-06	0.999962
rad30	5.59817e-06	0.999970	5.92573e-06	0.999967
PhCCH+CH3	5.09685e-06	0.999975	5.39507e-06	0.999973
rad19anti	4.36272e-06	0.999979	4.61799e-06	0.999978
PAH3+H	3.98836e-06	0.999983	4.22172e-06	0.999982
Ph+MeAc	2.96477e-06	0.999986	3.13824e-06	0.999985
PAH10+CH3	2.86242e-06	0.999989	3.02990e-06	0.999988
rad71	1.53068e-06	0.999990	1.62024e-06	0.999990
PAH1+H	1.48941e-06	0.999992	1.57656e-06	0.999991
rad37	1.09743e-06	0.999993	1.16164e-06	0.999992
rad73	1.08683e-06	0.999994	1.15042e-06	0.999993
rad65	1.02381e-06	0.999995	1.08371e-06	0.999994
PhCCCH3+H	9.01837e-07	0.999996	9.54605e-07	0.999995
rad28	6.86085e-07	0.999997	7.26229e-07	0.999996
rad59	3.65452e-07	0.999997	3.86835e-07	0.999997
rad15	3.37543e-07	0.999997	3.57293e-07	0.999997
rad67	3.35219e-07	0.999998	3.54833e-07	0.999997
rad7	3.33216e-07	0.999998	3.52713e-07	0.999998
rad60syn	2.84747e-07	0.999998	3.01408e-07	0.999998
rad19syn	2.06188e-07	0.999999	2.18252e-07	0.999998
rad70	1.84250e-07	0.999999	1.95031e-07	0.999998
rad60anti	1.77542e-07	0.999999	1.87930e-07	0.999999
PhcycC3H3_A+H	1.49397e-07	0.999999	1.58138e-07	0.999999
rad25	1.48143e-07	0.999999	1.56811e-07	0.999999
rad54	8.43314e-08	0.999999	8.92657e-08	0.999999
rad26	5.44860e-08	0.999999	5.76741e-08	0.999999
rad34	5.21736e-08	0.999999	5.52263e-08	0.999999
rad72	5.18618e-08	0.999999	5.48963e-08	0.999999
rad58	4.86334e-08	0.999999	5.14790e-08	0.999999
rad64	2.90472e-08	0.999999	3.07468e-08	0.999999
rad13	2.20353e-08	1.000000	2.33246e-08	0.999999
rad47	2.05863e-08	1.000000	2.17908e-08	0.999999
PAH8+H	1.85838e-08	1.000000	1.96712e-08	0.999999
rad62	1.08069e-08	1.000000	1.14392e-08	0.999999
rad2	9.21809e-09	1.000000	9.75745e-09	0.999999
rad61	6.77234e-09	1.000000	7.16859e-09	0.999999
rad55	6.68180e-09	1.000000	7.07276e-09	0.999999
rad10	6.65947e-09	1.000000	7.04913e-09	0.999999
rad68syn	5.11117e-09	1.000000	5.41023e-09	0.999999
rad68anti	3.31672e-09	1.000000	3.51078e-09	0.999999
rad56	2.73959e-09	1.000000	2.89989e-09	0.999999
rad53	2.36861e-09	1.000000	2.50719e-09	0.999999
rad43	2.20826e-09	1.000000	2.33747e-09	0.999999
rad3	2.14469e-09	1.000000	2.27018e-09	0.999999
rad40syn	2.10179e-09	1.000000	2.22477e-09	0.999999
rad1	1.51456e-09	1.000000	1.60318e-09	0.999999
rad4	1.40222e-09	1.000000	1.48427e-09	0.999999
rad40anti	1.27792e-09	1.000000	1.35269e-09	0.999999
rad42	1.11757e-09	1.000000	1.18296e-09	0.999999
rad41	2.14073e-10	1.000000	2.26598e-10	0.999999
rad33	1.33371e-10	1.000000	1.41175e-10	0.999999
rad12	3.11985e-11	1.000000	3.30239e-11	0.999999
rad14	2.50328e-12	1.000000	2.64974e-12	0.999999
rad5	1.01803e-12	1.000000	1.07760e-12	0.999999
rad27	3.50920e-13	1.000000	3.71452e-13	0.999999
rad31	3.19788e-13	1.000000	3.38499e-13	0.999999
rad8	3.94935e-14	1.000000	4.18043e-14	0.999999

1000000.00 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	6.78190e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul

rad20	0.271527	0.271527	0.321200	0.321200
rad22	0.181795	0.453322	0.215053	0.536253
Benzyl+C2H2	0.154650	0.607972	0.000000	0.536253
Indene+H	0.145428	0.753400	0.172033	0.708286
rad21	0.126536	0.879936	0.149684	0.857970
rad18	0.0813157	0.961252	0.0961917	0.954162
rad45	0.0119048	0.973156	0.0140827	0.968244
rad11	0.00871062	0.981867	0.0103042	0.978549
rad23	0.00836778	0.990235	0.00989860	0.988447
rad6	0.00287065	0.993106	0.00339581	0.991843
PAH9+H	0.00195958	0.995065	0.00231807	0.994161
rad38	0.000972682	0.996038	0.00115063	0.995312
rad36	0.000920144	0.996958	0.00108848	0.996400
rad50	0.000394762	0.997353	0.000466981	0.996867
PAH7+H	0.000388881	0.997742	0.000460024	0.997327
Ph+Allene	0.000384200	0.998126	0.000454486	0.997782
rad46	0.000354342	0.998480	0.000419165	0.998201
PhCH2CCH+H	0.000345650	0.998826	0.000408884	0.998610
rad35	0.000272481	0.999098	0.000322329	0.998932
PhCHCCH2+H	0.000247034	0.999345	0.000292227	0.999224
rad39	0.000183126	0.999528	0.000216627	0.999441
rad24	0.000151129	0.999680	0.000178777	0.999620
rad51	0.000128764	0.999808	0.000152320	0.999772
rad52	3.61667e-05	0.999844	4.27831e-05	0.999815
rad9	3.42820e-05	0.999879	4.05536e-05	0.999855
rad30	2.38130e-05	0.999903	2.81694e-05	0.999884
PhCCH+CH3	1.52525e-05	0.999918	1.80429e-05	0.999902
rad19anti	1.41210e-05	0.999932	1.67043e-05	0.999918
PAH3+H	1.28134e-05	0.999945	1.51575e-05	0.999933
PAH10+CH3	9.35749e-06	0.999954	1.10694e-05	0.999944
Ph+MeAc	9.14043e-06	0.999963	1.08126e-05	0.999955
rad71	5.13356e-06	0.999968	6.07270e-06	0.999961
PAH1+H	4.91788e-06	0.999973	5.81756e-06	0.999967
rad73	3.60797e-06	0.999977	4.26802e-06	0.999971
rad7	3.57771e-06	0.999981	4.23222e-06	0.999976
rad37	3.45560e-06	0.999984	4.08778e-06	0.999980
rad65	3.30094e-06	0.999987	3.90481e-06	0.999984
PhCCCH3+H	2.78885e-06	0.999990	3.29904e-06	0.999987
rad28	1.23930e-06	0.999991	1.46602e-06	0.999988
rad59	1.17793e-06	0.999992	1.39342e-06	0.999990
rad67	1.11124e-06	0.999994	1.31453e-06	0.999991
rad60syn	9.88193e-07	0.999995	1.16897e-06	0.999992
rad15	8.67695e-07	0.999995	1.02643e-06	0.999993
rad47	6.76365e-07	0.999996	8.00100e-07	0.999994
rad19syn	6.53759e-07	0.999997	7.73359e-07	0.999995
rad25	6.09595e-07	0.999997	7.21115e-07	0.999996
rad60anti	6.08400e-07	0.999998	7.19702e-07	0.999996
rad70	6.06404e-07	0.999999	7.17341e-07	0.999997
PhcycC3H3_A+H	4.82650e-07	0.999999	5.70947e-07	0.999998
rad54	2.67055e-07	0.999999	3.15911e-07	0.999998
rad72	1.77685e-07	1.000000	2.10190e-07	0.999998
rad34	1.73184e-07	1.000000	2.04867e-07	0.999998
rad13	1.65738e-07	1.000000	1.96058e-07	0.999999
rad58	1.57746e-07	1.000000	1.86604e-07	0.999999
rad64	9.67273e-08	1.000000	1.14423e-07	0.999999
rad26	8.88968e-08	1.000000	1.05160e-07	0.999999
PAH8+H	6.42223e-08	1.000000	7.59712e-08	0.999999
rad62	3.62701e-08	1.000000	4.29054e-08	0.999999
rad2	2.87425e-08	1.000000	3.40006e-08	0.999999
rad61	2.28550e-08	1.000000	2.70362e-08	0.999999
rad55	2.13320e-08	1.000000	2.52345e-08	0.999999
rad68syn	1.73776e-08	1.000000	2.05567e-08	0.999999
rad3	1.13841e-08	1.000000	1.34668e-08	0.999999
rad68anti	1.12732e-08	1.000000	1.33355e-08	0.999999
rad10	1.08832e-08	1.000000	1.28742e-08	0.999999
rad56	9.11983e-09	1.000000	1.07882e-08	0.999999
rad4	8.01484e-09	1.000000	9.48108e-09	0.999999
rad53	7.78589e-09	1.000000	9.21025e-09	0.999999
rad43	7.38740e-09	1.000000	8.73886e-09	0.999999
rad40syn	7.21752e-09	1.000000	8.53790e-09	0.999999
rad1	5.52230e-09	1.000000	6.53256e-09	0.999999
rad40anti	4.40026e-09	1.000000	5.20524e-09	0.999999
rad42	3.80161e-09	1.000000	4.49708e-09	0.999999
rad33	1.56013e-09	1.000000	1.84555e-09	0.999999
rad12	7.85388e-10	1.000000	9.29067e-10	0.999999
rad41	7.28282e-10	1.000000	8.61515e-10	0.999999
rad31	1.47329e-11	1.000000	1.74281e-11	0.999999
rad14	1.27480e-11	1.000000	1.50802e-11	0.999999
rad8	2.74579e-12	1.000000	3.24810e-12	0.999999
rad5	2.53419e-12	1.000000	2.99780e-12	0.999999

rad27 | 7.86372e-13 1.00000 | 9.30232e-13 0.999999

1000000.00 Pa, 800.000000 K

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

Total | 3.12228e-16 (1.00) | 2.24061e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.282380	0.282380	0.000000	0.000000
Indene+H	0.211431	0.493811	0.294629	0.294629
rad20	0.176600	0.670411	0.246091	0.540720
rad22	0.147595	0.818006	0.205673	0.746393
rad21	0.0860514	0.904057	0.119912	0.866305
rad18	0.0457946	0.949852	0.0638145	0.930119
rad23	0.0121182	0.961970	0.0168867	0.947006
rad45	0.0113932	0.973363	0.0158763	0.962882
rad11	0.00886875	0.982232	0.0123585	0.975241
rad6	0.00795243	0.990185	0.0110817	0.986323
PAH9+H	0.00264737	0.992832	0.00368910	0.990012
rad38	0.00131429	0.994146	0.00183145	0.991843
rad36	0.00110177	0.995248	0.00153531	0.993379
Ph+Allene	0.000667191	0.995915	0.000929727	0.994308
PhCH2CCH+H	0.000611083	0.996526	0.000851541	0.995160
rad50	0.000548501	0.997075	0.000764333	0.995924
PAH7+H	0.000537897	0.997613	0.000749556	0.996674
PhCHCCH2+H	0.000495200	0.998108	0.000690059	0.997364
rad46	0.000482820	0.998591	0.000672807	0.998037
rad35	0.000366739	0.998957	0.000511049	0.998548
rad39	0.000255841	0.999213	0.000356512	0.998904
rad24	0.000247635	0.999461	0.000345078	0.999249
rad51	0.000180815	0.999642	0.000251964	0.999501
rad9	8.98951e-05	0.999732	0.000125268	0.999626
rad30	5.58626e-05	0.999787	7.78442e-05	0.999704
rad52	5.04793e-05	0.999838	7.03426e-05	0.999775
rad19anti	2.40915e-05	0.999862	3.35714e-05	0.999808
PhCCH+CH3	2.32983e-05	0.999885	3.24661e-05	0.999841
PAH3+H	1.93274e-05	0.999905	2.69884e-05	0.999868
rad7	1.66135e-05	0.999921	2.31508e-05	0.999891
Ph+MeAc	1.35073e-05	0.999935	1.88224e-05	0.999910
PAH10+CH3	1.32489e-05	0.999948	1.84622e-05	0.999928
rad71	7.38146e-06	0.999955	1.02860e-05	0.999938
PAH1+H	6.98821e-06	0.999962	9.73803e-06	0.999948
rad73	5.15342e-06	0.999968	7.18127e-06	0.999955
rad37	4.80529e-06	0.999972	6.69615e-06	0.999962
rad65	4.63235e-06	0.999977	6.45515e-06	0.999968
PhCCCH3+H	4.08958e-06	0.999981	5.69881e-06	0.999974
rad28	2.86189e-06	0.999984	3.98803e-06	0.999978
rad47	1.95588e-06	0.999986	2.72551e-06	0.999981
rad60syn	1.88144e-06	0.999988	2.62177e-06	0.999983
rad59	1.84577e-06	0.999990	2.57207e-06	0.999986
rad67	1.80627e-06	0.999991	2.51703e-06	0.999989
rad25	1.21395e-06	0.999993	1.69163e-06	0.999990
rad60anti	1.13061e-06	0.999994	1.57550e-06	0.999992
rad15	1.07119e-06	0.999995	1.49270e-06	0.999993
rad19syn	9.21688e-07	0.999996	1.28437e-06	0.999995
rad70	8.65265e-07	0.999997	1.20574e-06	0.999996
rad13	7.49507e-07	0.999997	1.04443e-06	0.999997
PhcycC3H3_A+H	6.84158e-07	0.999998	9.53371e-07	0.999998
rad54	3.75973e-07	0.999999	5.23916e-07	0.999998
rad72	2.59010e-07	0.999999	3.60929e-07	0.999999
rad34	2.47552e-07	0.999999	3.44963e-07	0.999999
rad58	2.24312e-07	0.999999	3.12578e-07	0.999999
rad64	1.38053e-07	0.999999	1.92376e-07	1.000000
rad26	1.19899e-07	0.999999	1.67078e-07	1.000000
PAH8+H	9.36318e-08	1.000000	1.30475e-07	1.000000
rad2	6.17694e-08	1.000000	8.60754e-08	1.000000
rad62	5.21525e-08	1.000000	7.26743e-08	1.000000
rad3	4.34902e-08	1.000000	6.06033e-08	1.000000
rad61	3.29039e-08	1.000000	4.58513e-08	1.000000
rad4	3.27722e-08	1.000000	4.56679e-08	1.000000
rad55	3.00966e-08	1.000000	4.19394e-08	1.000000
rad68syn	2.51054e-08	1.000000	3.49842e-08	1.000000
rad68anti	1.62837e-08	1.000000	2.26913e-08	1.000000
rad10	1.47955e-08	1.000000	2.06174e-08	1.000000
rad33	1.47942e-08	1.000000	2.06157e-08	1.000000
rad1	1.43948e-08	1.000000	2.00591e-08	1.000000
rad12	1.35475e-08	1.000000	1.88783e-08	1.000000
rad56	1.31009e-08	1.000000	1.82560e-08	1.000000

rad53	1.11157e-08	1.000000	1.54897e-08	1.00000
rad43	1.07359e-08	1.000000	1.49604e-08	1.00000
rad40syn	1.04856e-08	1.000000	1.46116e-08	1.00000
rad40anti	6.40293e-09	1.000000	8.92244e-09	1.00000
rad42	5.50243e-09	1.000000	7.66760e-09	1.00000
rad41	1.06500e-09	1.000000	1.48407e-09	1.00000
rad8	2.59210e-10	1.000000	3.61207e-10	1.00000
rad31	8.49354e-11	1.000000	1.18357e-10	1.00000
rad14	6.84681e-11	1.000000	9.54099e-11	1.00000
rad5	4.86286e-12	1.000000	6.77636e-12	1.00000
rad27	2.25422e-12	1.000000	3.14125e-12	1.00000

1000000.00 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.21769e-16 (1.00)	5.48148e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.405330	0.405330	0.00000	0.00000
Indene+H	0.236261	0.641591	0.397297	0.397297
rad20	0.131647	0.773238	0.221378	0.618675
rad22	0.0884697	0.861708	0.148771	0.767446
rad21	0.0615243	0.923232	0.103460	0.870906
rad18	0.0217757	0.945008	0.0366181	0.907524
rad23	0.0128985	0.957906	0.0216901	0.929214
rad6	0.0126112	0.970517	0.0212070	0.950421
rad45	0.0110144	0.981532	0.0185219	0.968943
rad11	0.00603455	0.987566	0.0101477	0.979091
PAH9+H	0.00283296	0.990399	0.00476392	0.983855
rad38	0.00140479	0.991804	0.00236230	0.986217
Ph+Allene	0.00132149	0.993126	0.00222223	0.988439
PhCH2CCH+H	0.00127037	0.994396	0.00213626	0.990576
rad36	0.00111214	0.995508	0.00187018	0.992446
PhCHCCH2+H	0.00104780	0.996556	0.00176198	0.994208
rad50	0.000597367	0.997153	0.00100454	0.995212
PAH7+H	0.000590988	0.997744	0.000993808	0.996206
rad46	0.000519134	0.998263	0.000872979	0.997079
rad35	0.000392419	0.998656	0.000659894	0.997739
rad39	0.000280387	0.998936	0.000471499	0.998210
rad24	0.000257786	0.999194	0.000433493	0.998644
rad51	0.000198162	0.999392	0.000333230	0.998977
rad9	0.000192976	0.999585	0.000324509	0.999302
rad30	9.82388e-05	0.999683	0.000165199	0.999467
rad52	5.51072e-05	0.999738	9.26686e-05	0.999559
PhCCH+CH3	4.76434e-05	0.999786	8.01174e-05	0.999640
rad19anti	4.20257e-05	0.999828	7.06707e-05	0.999710
rad7	3.75802e-05	0.999866	6.31951e-05	0.999773
PAH3+H	2.79212e-05	0.999894	4.69524e-05	0.999820
Ph+MeAc	2.07102e-05	0.999914	3.48264e-05	0.999855
PAH10+CH3	1.47816e-05	0.999929	2.48568e-05	0.999880
rad28	8.39351e-06	0.999938	1.41146e-05	0.999894
rad71	8.25830e-06	0.999946	1.38872e-05	0.999908
PAH1+H	7.73847e-06	0.999954	1.30131e-05	0.999921
rad73	5.74036e-06	0.999959	9.65301e-06	0.999931
PhCCCH3+H	5.72471e-06	0.999965	9.62671e-06	0.999940
rad37	5.31416e-06	0.999970	8.93632e-06	0.999949
rad65	5.07763e-06	0.999975	8.53858e-06	0.999958
rad60syn	3.44399e-06	0.999979	5.79143e-06	0.999964
rad67	3.07261e-06	0.999982	5.16692e-06	0.999969
rad59	2.84796e-06	0.999985	4.78915e-06	0.999974
rad13	2.80177e-06	0.999988	4.71147e-06	0.999978
rad47	2.51400e-06	0.999990	4.22756e-06	0.999983
rad60anti	2.04304e-06	0.999992	3.43558e-06	0.999986
rad25	1.77731e-06	0.999994	2.98873e-06	0.999989
rad19syn	1.18397e-06	0.999995	1.99097e-06	0.999991
rad70	1.00257e-06	0.999996	1.68592e-06	0.999993
rad15	9.59021e-07	0.999997	1.61269e-06	0.999994
PhcycC3H3_A+H	8.28888e-07	0.999998	1.39386e-06	0.999996
rad54	4.79118e-07	0.999998	8.05688e-07	0.999996
rad72	2.92221e-07	0.999999	4.91400e-07	0.999997
rad34	2.82683e-07	0.999999	4.75361e-07	0.999997
rad58	2.68526e-07	0.999999	4.51555e-07	0.999998
rad26	1.91719e-07	0.999999	3.22396e-07	0.999998
rad12	1.64734e-07	1.000000	2.77017e-07	0.999998
rad64	1.53145e-07	1.000000	2.57530e-07	0.999999
rad3	1.50520e-07	1.000000	2.53115e-07	0.999999
rad2	1.26935e-07	1.000000	2.13455e-07	0.999999
rad4	1.18975e-07	1.000000	2.00069e-07	0.999999

rad33	1.15217e-07	1.00000	1.93749e-07	1.000000
PAH8+H	1.05420e-07	1.00000	1.77275e-07	1.000000
rad62	5.94045e-08	1.00000	9.98948e-08	1.000000
rad55	3.73800e-08	1.00000	6.28585e-08	1.000000
rad61	3.70420e-08	1.00000	6.22901e-08	1.000000
rad1	3.44026e-08	1.00000	5.78516e-08	1.000000
rad68syn	2.82363e-08	1.00000	4.74823e-08	1.000000
rad10	2.55230e-08	1.00000	4.29197e-08	1.000000
rad68anti	1.83152e-08	1.00000	3.07990e-08	1.000000
rad56	1.52032e-08	1.00000	2.55659e-08	1.000000
rad53	1.30582e-08	1.00000	2.19587e-08	1.000000
rad43	1.29344e-08	1.00000	2.17506e-08	1.000000
rad8	1.20369e-08	1.00000	2.02413e-08	1.000000
rad40syn	1.18027e-08	1.00000	1.98476e-08	1.000000
rad40anti	7.21343e-09	1.00000	1.21301e-08	1.000000
rad42	6.24573e-09	1.00000	1.05029e-08	1.000000
rad41	1.28021e-09	1.00000	2.15280e-09	1.000000
rad14	4.02341e-10	1.00000	6.76579e-10	1.000000
rad31	2.73139e-10	1.00000	4.59313e-10	1.000000
rad27	1.12085e-11	1.00000	1.88482e-11	1.000000
rad5	8.44124e-12	1.00000	1.41948e-11	1.000000

1000000.00 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.23691e-15 (1.00)	1.07981e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.517279	0.517279	0.00000	0.00000
Indene+H	0.230714	0.747993	0.477944	0.477944
rad20	0.0969832	0.844976	0.200909	0.678853
rad22	0.0460879	0.891064	0.0954752	0.774328
rad21	0.0410927	0.932157	0.0851271	0.859455
rad6	0.0133345	0.945491	0.0276236	0.887079
rad18	0.0118137	0.957305	0.0244731	0.911552
rad23	0.0107305	0.968036	0.0222292	0.933781
rad45	0.0103602	0.978396	0.0214620	0.955243
rad11	0.00396838	0.982364	0.00822085	0.963464
PhCH2CCH+H	0.00314639	0.985510	0.00651803	0.969982
Ph+Allene	0.00313277	0.988643	0.00648982	0.976472
PAH9+H	0.00281650	0.991460	0.00583462	0.982307
PhCHCCH2+H	0.00219364	0.993653	0.00454431	0.986851
rad38	0.00139068	0.995044	0.00288091	0.989732
rad36	0.00102616	0.996070	0.00212578	0.991858
PAH7+H	0.000629218	0.996699	0.00130348	0.993161
rad50	0.000596354	0.997296	0.00123540	0.994396
rad46	0.000515301	0.997811	0.00106749	0.995464
rad9	0.000410788	0.998222	0.000850983	0.996315
rad35	0.000392965	0.998615	0.000814061	0.997129
rad39	0.000285104	0.998900	0.000590619	0.997720
rad24	0.000199142	0.999099	0.000412540	0.998132
rad51	0.000198355	0.999297	0.000410909	0.998543
rad30	0.000149685	0.999447	0.000310087	0.998853
PhCCH+CH3	0.000137143	0.999584	0.000284104	0.999137
rad19anti	8.51770e-05	0.999669	0.000176452	0.999314
rad7	5.66313e-05	0.999726	0.000117317	0.999431
rad52	5.50656e-05	0.999781	0.000114073	0.999545
PAH3+H	5.31507e-05	0.999834	0.000110106	0.999655
Ph+MeAc	4.25820e-05	0.999877	8.82123e-05	0.999743
rad28	1.57449e-05	0.999893	3.26170e-05	0.999776
PAH10+CH3	1.56431e-05	0.999908	3.24060e-05	0.999808
PhCCCH3+H	9.71728e-06	0.999918	2.01302e-05	0.999829
rad13	9.44552e-06	0.999927	1.95672e-05	0.999848
rad71	8.35967e-06	0.999936	1.73178e-05	0.999865
PAH1+H	8.00362e-06	0.999944	1.65802e-05	0.999882
rad60syn	6.62693e-06	0.999950	1.37283e-05	0.999896
rad67	6.27726e-06	0.999957	1.30039e-05	0.999909
rad73	5.79876e-06	0.999962	1.20126e-05	0.999921
rad37	5.66258e-06	0.999968	1.17305e-05	0.999932
rad59	5.58860e-06	0.999974	1.15773e-05	0.999944
rad65	5.09122e-06	0.999979	1.05469e-05	0.999955
rad60anti	3.96062e-06	0.999983	8.20478e-06	0.999963
rad19syn	2.71399e-06	0.999986	5.62227e-06	0.999968
rad47	2.52711e-06	0.999988	5.23513e-06	0.999974
rad25	2.42128e-06	0.999990	5.01590e-06	0.999979
PhcycC3H3_A+H	1.64859e-06	0.999992	3.41520e-06	0.999982
rad70	1.29330e-06	0.999993	2.67918e-06	0.999985
rad12	1.22902e-06	0.999995	2.54603e-06	0.999987

rad54	1.09654e-06	0.999996	2.27157e-06	0.999990
rad15	1.03621e-06	0.999997	2.14659e-06	0.999992
rad33	5.90204e-07	0.999997	1.22266e-06	0.999993
rad58	4.31000e-07	0.999998	8.92854e-07	0.999994
rad34	3.49894e-07	0.999998	7.24837e-07	0.999995
rad3	3.47631e-07	0.999998	7.20149e-07	0.999995
rad26	2.98670e-07	0.999999	6.18721e-07	0.999996
rad72	2.96938e-07	0.999999	6.15134e-07	0.999997
rad4	2.78726e-07	0.999999	5.77405e-07	0.999997
rad2	2.68004e-07	1.000000	5.55195e-07	0.999998
rad8	1.84786e-07	1.000000	3.82801e-07	0.999998
rad64	1.57753e-07	1.000000	3.26799e-07	0.999998
PAH8+H	1.16286e-07	1.000000	2.40897e-07	0.999999
rad55	8.09009e-08	1.000000	1.67593e-07	0.999999
rad1	7.51704e-08	1.000000	1.55722e-07	0.999999
rad62	6.79307e-08	1.000000	1.40724e-07	0.999999
rad10	5.10488e-08	1.000000	1.05752e-07	0.999999
rad61	3.91173e-08	1.000000	8.10350e-08	0.999999
rad68syn	3.21441e-08	1.000000	6.65892e-08	0.999999
rad56	2.51226e-08	1.000000	5.20436e-08	0.999999
rad53	2.32796e-08	1.000000	4.82258e-08	0.999999
rad68anti	2.08658e-08	1.000000	4.32253e-08	0.999999
rad43	1.63760e-08	1.000000	3.39242e-08	0.999999
rad40syn	1.31739e-08	1.000000	2.72908e-08	1.000000
rad40anti	8.02209e-09	1.000000	1.66185e-08	1.000000
rad42	6.90593e-09	1.000000	1.43062e-08	1.000000
rad14	2.07257e-09	1.000000	4.29351e-09	1.000000
rad41	1.59858e-09	1.000000	3.31159e-09	1.000000
rad31	7.69557e-10	1.000000	1.59420e-09	1.000000
rad27	8.13722e-11	1.000000	1.68570e-10	1.000000
rad5	1.47675e-11	1.000000	3.05922e-11	1.000000

1000000.00 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	1.81843e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.612974	0.612974	0.000000	0.000000
Indene+H	0.213102	0.826076	0.550614	0.550614
rad20	0.0612867	0.887363	0.158353	0.708967
rad21	0.0240258	0.911389	0.0620779	0.771045
rad22	0.0233360	0.934725	0.0602955	0.831340
rad6	0.0105195	0.945244	0.0271803	0.858521
rad45	0.00939248	0.954636	0.0242683	0.882789
rad18	0.00822922	0.962866	0.0212627	0.904052
rad23	0.00800528	0.970871	0.0206841	0.924736
PhCH2CCH+H	0.00647889	0.977350	0.0167402	0.941476
Ph+Allene	0.00603107	0.983381	0.0155831	0.957059
PhCHCCH2+H	0.00374589	0.987127	0.00967866	0.966738
rad11	0.00319202	0.990319	0.00824756	0.974985
PAH9+H	0.00272786	0.993047	0.00704826	0.982034
rad38	0.00133605	0.994383	0.00345210	0.985486
rad36	0.000916705	0.995299	0.00236859	0.987854
rad9	0.000778946	0.996078	0.00201265	0.989867
PAH7+H	0.000688916	0.996767	0.00178002	0.991647
rad50	0.000574367	0.997342	0.00148405	0.993131
rad46	0.000495449	0.997837	0.00128014	0.994411
rad35	0.000387099	0.998224	0.00100019	0.995411
rad39	0.000284049	0.998508	0.000733928	0.996145
PhCCH+CH3	0.000272656	0.998781	0.000704489	0.996850
rad30	0.000207208	0.998988	0.000535384	0.997385
rad51	0.000191178	0.999179	0.000493965	0.997879
rad19anti	0.000158458	0.999338	0.000409424	0.998289
rad24	0.000156772	0.999495	0.000405067	0.998694
PAH3+H	0.000113411	0.999608	0.000293032	0.998987
Ph+MeAc	7.86176e-05	0.999687	0.000203133	0.999190
rad7	7.62611e-05	0.999763	0.000197044	0.999387
rad52	5.30462e-05	0.999816	0.000137061	0.999524
rad13	2.37004e-05	0.999840	6.12372e-05	0.999585
rad28	1.72956e-05	0.999857	4.46884e-05	0.999630
PAH10+CH3	1.69946e-05	0.999874	4.39108e-05	0.999674
PhCCCH3+H	1.61979e-05	0.999890	4.18523e-05	0.999716
rad67	1.20623e-05	0.999902	3.11667e-05	0.999747
rad60syn	1.20337e-05	0.999914	3.10928e-05	0.999778
rad59	1.15649e-05	0.999926	2.98815e-05	0.999808
PAH1+H	8.45970e-06	0.999934	2.18582e-05	0.999830
rad71	8.09909e-06	0.999942	2.09265e-05	0.999850

rad60anti	7.30261e-06	0.999950	1.88685e-05	0.999869
rad19syn	6.83064e-06	0.999956	1.76490e-05	0.999887
rad37	6.22704e-06	0.999963	1.60895e-05	0.999903
rad73	5.61357e-06	0.999968	1.45044e-05	0.999918
rad65	4.93408e-06	0.999973	1.27487e-05	0.999930
PhcycC3H3_A+H	4.18524e-06	0.999977	1.08138e-05	0.999941
rad12	4.01801e-06	0.999981	1.03818e-05	0.999952
rad25	2.97465e-06	0.999984	7.68592e-06	0.999959
rad54	2.74458e-06	0.999987	7.09145e-06	0.999966
rad47	2.33271e-06	0.999989	6.02728e-06	0.999972
rad70	1.97384e-06	0.999991	5.10001e-06	0.999977
rad15	1.65223e-06	0.999993	4.26904e-06	0.999982
rad33	1.52507e-06	0.999995	3.94048e-06	0.999986
rad58	9.90770e-07	0.999996	2.55996e-06	0.999988
rad8	9.57079e-07	0.999997	2.47290e-06	0.999991
rad34	5.25670e-07	0.999997	1.35823e-06	0.999992
rad3	4.73623e-07	0.999998	1.22375e-06	0.999993
rad2	4.07323e-07	0.999998	1.05247e-06	0.999994
rad4	3.79603e-07	0.999998	9.80819e-07	0.999995
rad26	3.38460e-07	0.999999	8.74515e-07	0.999996
rad72	2.88068e-07	0.999999	7.44312e-07	0.999997
rad55	2.04088e-07	0.999999	5.27324e-07	0.999997
rad64	1.65375e-07	0.999999	4.27296e-07	0.999998
PAH8+H	1.58442e-07	1.000000	4.09383e-07	0.999998
rad1	1.13640e-07	1.000000	2.93624e-07	0.999999
rad10	9.27510e-08	1.000000	2.39650e-07	0.999999
rad62	8.49395e-08	1.000000	2.19467e-07	0.999999
rad56	6.29986e-08	1.000000	1.62776e-07	0.999999
rad53	5.89157e-08	1.000000	1.52227e-07	0.999999
rad68syn	4.55910e-08	1.000000	1.17798e-07	0.999999
rad61	4.21577e-08	1.000000	1.08927e-07	1.000000
rad68anti	2.96173e-08	1.000000	7.65253e-08	1.000000
rad43	2.21384e-08	1.000000	5.72013e-08	1.000000
rad40syn	1.82202e-08	1.000000	4.70775e-08	1.000000
rad40anti	1.10205e-08	1.000000	2.84748e-08	1.000000
rad42	8.29167e-09	1.000000	2.14241e-08	1.000000
rad14	6.94727e-09	1.000000	1.79504e-08	1.000000
rad41	2.13766e-09	1.000000	5.52329e-09	1.000000
rad31	1.33692e-09	1.000000	3.45434e-09	1.000000
rad27	4.22907e-10	1.000000	1.09271e-09	1.000000
rad5	2.22738e-11	1.000000	5.75511e-11	1.000000

1000000.00 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.84330e-15 (1.00)	2.85314e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.677367	0.677367	0.00000	0.00000
Indene+H	0.194953	0.872320	0.604255	0.604255
rad20	0.0367926	0.909113	0.114039	0.718294
rad21	0.0146800	0.923793	0.0455006	0.763795
rad22	0.0128949	0.936688	0.0399676	0.803762
PhCH2CCH+H	0.00912267	0.945810	0.0282757	0.832038
rad45	0.00838910	0.954199	0.0260020	0.858040
Ph+Allene	0.00820271	0.962402	0.0254243	0.883464
rad6	0.00711925	0.969521	0.0220661	0.905530
rad18	0.00686104	0.976382	0.0212658	0.926796
rad23	0.00582404	0.982206	0.0180516	0.944848
PhCHCCH2+H	0.00474729	0.986954	0.0147142	0.959562
rad11	0.00308231	0.990036	0.00955363	0.969116
PAH9+H	0.00260612	0.992642	0.00807766	0.977193
rad38	0.00126705	0.993909	0.00392721	0.981120
rad9	0.00104205	0.994951	0.00322983	0.984350
rad36	0.000812927	0.995764	0.00251967	0.986870
PAH7+H	0.000725204	0.996489	0.00224777	0.989118
rad50	0.000545246	0.997035	0.00168999	0.990808
rad46	0.000469980	0.997504	0.00145670	0.992264
rad35	0.000376890	0.997881	0.00116817	0.993433
PhCCH+CH3	0.000367679	0.998249	0.00113962	0.994572
rad39	0.000277461	0.998527	0.000859990	0.995432
rad30	0.000259263	0.998786	0.000803585	0.996236
rad19anti	0.000211637	0.998997	0.000655969	0.996892
PAH3+H	0.000185128	0.999183	0.000573803	0.997465
rad51	0.000181540	0.999364	0.000562682	0.998028
rad24	0.000134836	0.999499	0.000417925	0.998446
rad7	0.000105972	0.999605	0.000328459	0.998775
Ph+MeAc	0.000105417	0.999710	0.000326739	0.999101

rad52	5.03619e-05	0.999761	0.000156097	0.999257
rad13	3.82393e-05	0.999799	0.000118523	0.999376
PhCCCH3+H	2.08036e-05	0.999820	6.44808e-05	0.999440
rad59	1.84844e-05	0.999838	5.72923e-05	0.999498
PAH10+CH3	1.79080e-05	0.999856	5.55058e-05	0.999553
rad60syn	1.78181e-05	0.999874	5.52271e-05	0.999608
rad67	1.65698e-05	0.999890	5.13580e-05	0.999660
rad28	1.43936e-05	0.999905	4.46131e-05	0.999704
rad19syn	1.13208e-05	0.999916	3.50887e-05	0.999739
rad60anti	1.09094e-05	0.999927	3.38138e-05	0.999773
PAH1+H	8.84595e-06	0.999936	2.74180e-05	0.999801
rad71	7.71609e-06	0.999944	2.39160e-05	0.999825
PhcycC3H3_A+H	7.23693e-06	0.999951	2.24309e-05	0.999847
rad37	6.57846e-06	0.999957	2.03899e-05	0.999867
rad12	6.51512e-06	0.999964	2.01936e-05	0.999888
rad73	5.34596e-06	0.999969	1.65698e-05	0.999904
rad65	4.71409e-06	0.999974	1.46113e-05	0.999919
rad54	4.44525e-06	0.999979	1.37781e-05	0.999933
rad15	3.22633e-06	0.999982	1.00000e-05	0.999943
rad25	3.16521e-06	0.999985	9.81057e-06	0.999952
rad70	2.57095e-06	0.999987	7.96865e-06	0.999960
rad8	2.50497e-06	0.999990	7.76415e-06	0.999968
rad33	2.31687e-06	0.999992	7.18115e-06	0.999975
rad47	2.09494e-06	0.999994	6.49327e-06	0.999982
rad58	1.72433e-06	0.999996	5.34457e-06	0.999987
rad34	6.89352e-07	0.999997	2.13665e-06	0.999989
rad3	4.64859e-07	0.999997	1.44083e-06	0.999991
rad2	4.49223e-07	0.999998	1.39237e-06	0.999992
rad4	3.71611e-07	0.999998	1.15181e-06	0.999993
rad55	3.35208e-07	0.999998	1.03898e-06	0.999994
rad26	3.29958e-07	0.999999	1.02271e-06	0.999995
rad72	2.74609e-07	0.999999	8.51149e-07	0.999996
PAH8+H	2.07586e-07	0.999999	6.43414e-07	0.999997
rad64	1.72093e-07	0.999999	5.33401e-07	0.999997
rad10	1.71301e-07	1.000000	5.30948e-07	0.999998
rad1	1.24326e-07	1.000000	3.85349e-07	0.999998
rad56	1.09418e-07	1.000000	3.39142e-07	0.999999
rad53	1.00876e-07	1.000000	3.12666e-07	0.999999
rad62	1.00806e-07	1.000000	3.12448e-07	0.999999
rad68syn	6.00866e-08	1.000000	1.86238e-07	0.999999
rad61	4.43178e-08	1.000000	1.37363e-07	1.000000
rad68anti	3.90359e-08	1.000000	1.20992e-07	1.000000
rad43	2.63710e-08	1.000000	8.17369e-08	1.000000
rad40syn	2.39146e-08	1.000000	7.41234e-08	1.000000
rad40anti	1.44361e-08	1.000000	4.47448e-08	1.000000
rad14	1.43875e-08	1.000000	4.45939e-08	1.000000
rad42	9.69321e-09	1.000000	3.00441e-08	1.000000
rad41	2.54303e-09	1.000000	7.88213e-09	1.000000
rad31	1.59013e-09	1.000000	4.92862e-09	1.000000
rad27	1.32905e-09	1.000000	4.11938e-09	1.000000
rad5	3.09183e-11	1.000000	9.58312e-11	1.000000

1000000.00 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.52810e-14 (1.00)	4.30138e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.718514	0.718514	0.00000	0.00000
Indene+H	0.179277	0.897791	0.636897	0.636897
rad20	0.0239463	0.921737	0.0850712	0.721968
rad21	0.0102286	0.931966	0.0363378	0.758306
PhCH2CCH+H	0.0102020	0.942168	0.0362433	0.794549
Ph+Allene	0.00927403	0.951442	0.0329468	0.827496
rad22	0.00849060	0.959933	0.0301635	0.857660
rad45	0.00751092	0.967443	0.0266831	0.884343
rad18	0.00569967	0.973143	0.0202485	0.904591
PhCHCCH2+H	0.00505955	0.978203	0.0179745	0.922566
rad6	0.00465762	0.982860	0.0165466	0.939112
rad23	0.00424974	0.987110	0.0150975	0.954210
rad11	0.00299726	0.990107	0.0106480	0.964858
PAH9+H	0.00247399	0.992581	0.00878903	0.973647
rad38	0.00119615	0.993777	0.00424941	0.977896
rad9	0.00110967	0.994887	0.00394219	0.981838
rad36	0.000725506	0.995613	0.00257742	0.984416
PAH7+H	0.000720779	0.996333	0.00256063	0.986976
rad50	0.000514795	0.996848	0.00182885	0.988805
rad46	0.000443658	0.997292	0.00157613	0.990381

PhCCH+CH3	0.000408370	0.997700	0.00145077	0.991832
rad35	0.000364715	0.998065	0.00129568	0.993128
rad30	0.000309140	0.998374	0.00109824	0.994226
rad39	0.000265977	0.998640	0.000944903	0.995171
PAH3+H	0.000264413	0.998904	0.000939349	0.996110
rad19anti	0.000227392	0.999132	0.000807829	0.996918
rad51	0.000171427	0.999303	0.000609006	0.997527
rad7	0.000138977	0.999442	0.000493727	0.998021
rad24	0.000118489	0.999561	0.000420940	0.998442
Ph+MeAc	0.000116218	0.999677	0.000412872	0.998855
rad52	4.75533e-05	0.999725	0.000168937	0.999024
rad13	4.29175e-05	0.999767	0.000152468	0.999176
rad59	2.60553e-05	0.999793	9.25635e-05	0.999269
rad60syn	2.39054e-05	0.999817	8.49257e-05	0.999354
PhCCCH3+H	2.20612e-05	0.999839	7.83743e-05	0.999432
rad67	1.80726e-05	0.999858	6.42045e-05	0.999496
PAH10+CH3	1.76908e-05	0.999875	6.28478e-05	0.999559
rad19syn	1.48897e-05	0.999890	5.28967e-05	0.999612
rad60anti	1.47229e-05	0.999905	5.23041e-05	0.999664
rad28	1.10421e-05	0.999916	3.92278e-05	0.999704
PhcycC3H3_A+H	1.00185e-05	0.999926	3.55917e-05	0.999739
PAH1+H	8.86296e-06	0.999935	3.14864e-05	0.999771
rad12	7.37773e-06	0.999942	2.62100e-05	0.999797
rad71	7.30359e-06	0.999949	2.59466e-05	0.999823
rad15	6.61337e-06	0.999956	2.34945e-05	0.999846
rad37	6.49429e-06	0.999963	2.30715e-05	0.999869
rad54	5.70593e-06	0.999968	2.02708e-05	0.999890
rad73	5.05886e-06	0.999973	1.79720e-05	0.999908
rad65	4.46885e-06	0.999978	1.58760e-05	0.999923
rad8	4.09288e-06	0.999982	1.45403e-05	0.999938
rad25	3.20511e-06	0.999985	1.13864e-05	0.999949
rad70	2.82058e-06	0.999988	1.00203e-05	0.999959
rad33	2.58153e-06	0.999990	9.17110e-06	0.999969
rad58	2.55609e-06	0.999993	9.08071e-06	0.999978
rad47	1.86846e-06	0.999995	6.63785e-06	0.999984
rad34	7.60702e-07	0.999996	2.70245e-06	0.999987
rad55	4.34981e-07	0.999996	1.54530e-06	0.999989
rad2	4.13463e-07	0.999997	1.46886e-06	0.999990
rad3	3.83012e-07	0.999997	1.36068e-06	0.999991
rad26	3.51264e-07	0.999997	1.24789e-06	0.999993
rad10	3.36644e-07	0.999998	1.19596e-06	0.999994
rad4	3.05443e-07	0.999998	1.08511e-06	0.999995
rad72	2.60018e-07	0.999998	9.23734e-07	0.999996
PAH8+H	2.31604e-07	0.999998	8.22792e-07	0.999997
rad64	1.72145e-07	0.999999	6.11558e-07	0.999997
rad56	1.48178e-07	0.999999	5.26414e-07	0.999998
rad53	1.35158e-07	0.999999	4.80161e-07	0.999998
rad1	1.13959e-07	0.999999	4.04850e-07	0.999999
rad62	1.09548e-07	0.999999	3.89179e-07	0.999999
rad68syn	6.69487e-08	0.999999	2.37841e-07	0.999999
rad61	4.37766e-08	0.999999	1.55520e-07	0.999999
rad68anti	4.34910e-08	0.999999	1.54505e-07	1.000000
rad43	2.73214e-08	0.999999	9.70613e-08	1.000000
rad40syn	2.66572e-08	0.999999	9.47018e-08	1.000000
rad14	2.10965e-08	0.999999	7.49469e-08	1.000000
rad40anti	1.60842e-08	0.999999	5.71403e-08	1.000000
rad42	1.05100e-08	0.999999	3.73376e-08	1.000000
rad41	2.63635e-09	0.999999	9.36584e-09	1.000000
rad27	2.55638e-09	0.999999	9.08176e-09	1.000000
rad31	1.56615e-09	0.999999	5.56389e-09	1.000000
rad5	4.95586e-11	0.999999	1.76061e-10	1.000000

1000000.00 Pa, 1400.00000 K

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

Total | 2.46691e-14 (1.00) | 6.16035e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.750281	0.750281	0.00000	0.00000
Indene+H	0.163750	0.914031	0.655736	0.655736
rad20	0.0166250	0.930656	0.0665751	0.722311
PhCH2CCH+H	0.0105292	0.941185	0.0421641	0.764475
Ph+Allene	0.00960584	0.950791	0.0384667	0.802942
rad21	0.00758169	0.958373	0.0303609	0.833303
rad22	0.00672046	0.965093	0.0269121	0.860215
rad45	0.00666580	0.971759	0.0266933	0.886908
PhCHCCH2+H	0.00502225	0.976781	0.0201116	0.907020
rad18	0.00426975	0.981051	0.0170982	0.924118

rad6	0.00335839	0.984409	0.0134487	0.937567
rad23	0.00333433	0.987744	0.0133524	0.950919
rad11	0.00271200	0.990456	0.0108602	0.961779
PAH9+H	0.00231626	0.992772	0.00927548	0.971055
rad38	0.00111247	0.993884	0.00445490	0.975510
rad9	0.00109726	0.994982	0.00439400	0.979904
PAH7+H	0.000684325	0.995666	0.00274038	0.982644
rad36	0.000643002	0.996309	0.00257491	0.985219
rad50	0.000478353	0.996787	0.00191557	0.987135
rad46	0.000412466	0.997200	0.00165172	0.988786
PhCCH+CH3	0.000406012	0.997606	0.00162588	0.990412
rad30	0.000349770	0.997956	0.00140066	0.991813
rad35	0.000348621	0.998304	0.00139606	0.993209
PAH3+H	0.000346577	0.998651	0.00138787	0.994597
rad39	0.000248577	0.998899	0.000995429	0.995592
rad19anti	0.000226845	0.999126	0.000908402	0.996501
rad51	0.000159271	0.999286	0.000637803	0.997138
rad7	0.000155880	0.999441	0.000624222	0.997763
Ph+MeAc	0.000116408	0.999558	0.000466155	0.998229
rad24	0.000102388	0.999660	0.000410013	0.998639
rad52	4.41861e-05	0.999704	0.000176944	0.998816
rad13	3.88563e-05	0.999743	0.000155600	0.998971
rad59	3.37017e-05	0.999777	0.000134959	0.999106
rad60syn	2.96508e-05	0.999807	0.000118737	0.999225
PhCCCH3+H	2.15169e-05	0.999828	8.61644e-05	0.999311
rad60anti	1.83490e-05	0.999846	7.34789e-05	0.999385
rad67	1.81264e-05	0.999865	7.25871e-05	0.999457
rad19syn	1.70931e-05	0.999882	6.84494e-05	0.999526
PAH10+CH3	1.66727e-05	0.999898	6.67658e-05	0.999592
rad15	1.29565e-05	0.999911	5.18842e-05	0.999644
PhcycC3H3_A+H	1.21061e-05	0.999923	4.84791e-05	0.999693
rad28	9.07017e-06	0.999932	3.63215e-05	0.999729
PAH1+H	8.54292e-06	0.999941	3.42102e-05	0.999763
rad12	7.36651e-06	0.999948	2.94992e-05	0.999793
rad71	6.79542e-06	0.999955	2.72123e-05	0.999820
rad54	6.56533e-06	0.999962	2.62909e-05	0.999846
rad37	6.12034e-06	0.999968	2.45090e-05	0.999871
rad8	5.07661e-06	0.999973	2.03293e-05	0.999891
rad73	4.70634e-06	0.999978	1.88466e-05	0.999910
rad65	4.16789e-06	0.999982	1.66903e-05	0.999927
rad58	3.49670e-06	0.999985	1.40026e-05	0.999941
rad25	3.19057e-06	0.999989	1.27767e-05	0.999953
rad70	2.83212e-06	0.999991	1.13412e-05	0.999965
rad33	2.34483e-06	0.999994	9.38987e-06	0.999974
rad47	1.64322e-06	0.999995	6.58028e-06	0.999981
rad34	7.66445e-07	0.999996	3.06924e-06	0.999984
rad10	6.51817e-07	0.999997	2.61021e-06	0.999986
rad55	5.06747e-07	0.999997	2.02927e-06	0.999989
rad26	4.56875e-07	0.999998	1.82956e-06	0.999990
rad2	3.48057e-07	0.999998	1.39380e-06	0.999992
rad3	2.81020e-07	0.999998	1.12535e-06	0.999993
rad72	2.41950e-07	0.999999	9.68890e-07	0.999994
PAH8+H	2.35471e-07	0.999999	9.42943e-07	0.999995
rad4	2.23561e-07	0.999999	8.95253e-07	0.999996
rad56	1.82304e-07	0.999999	7.30037e-07	0.999996
rad64	1.65989e-07	0.999999	6.64702e-07	0.999997
rad53	1.63831e-07	1.000000	6.56063e-07	0.999998
rad62	1.12081e-07	1.000000	4.48831e-07	0.999998
rad1	9.59397e-08	1.000000	3.84191e-07	0.999999
rad68syn	6.79218e-08	1.000000	2.71993e-07	0.999999
rad68anti	4.41204e-08	1.000000	1.76681e-07	0.999999
rad61	4.12297e-08	1.000000	1.65105e-07	0.999999
rad40syn	2.70728e-08	1.000000	1.08413e-07	0.999999
rad43	2.64747e-08	1.000000	1.06018e-07	0.999999
rad14	2.40981e-08	1.000000	9.65010e-08	0.999999
rad40anti	1.63340e-08	1.000000	6.54095e-08	1.000000
rad42	1.08200e-08	1.000000	4.33288e-08	1.000000
rad27	3.31558e-09	1.000000	1.32773e-08	1.000000
rad41	2.55760e-09	1.000000	1.02419e-08	1.000000
rad31	1.38521e-09	1.000000	5.54710e-09	1.000000
rad5	1.07236e-10	1.000000	4.29428e-10	1.000000

1000000.00 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.38316e-15 (1.00)
species	PYtrue Cumul	PYeffective Cumul

Benzyl+C2H2	0.777581	0.777581	0.00000	0.00000
Indene+H	0.147524	0.925105	0.663269	0.663269
rad20	0.0118343	0.936939	0.0532072	0.716476
PhCH2CCH+H	0.0107858	0.947725	0.0484930	0.764969
Ph+Allene	0.00950581	0.957231	0.0427383	0.807708
rad22	0.00601001	0.963241	0.0270211	0.834729
rad45	0.00582086	0.969062	0.0261707	0.860899
rad21	0.00568601	0.974748	0.0255644	0.886464
PhCHCCH2+H	0.00486936	0.979617	0.0218927	0.908356
rad18	0.00308450	0.982702	0.0138680	0.922224
rad23	0.00303732	0.985739	0.0136558	0.935880
rad6	0.00286447	0.988603	0.0128787	0.948759
rad11	0.00239845	0.991002	0.0107835	0.959542
PAH9+H	0.00213605	0.993138	0.00960375	0.969146
rad9	0.00108679	0.994225	0.00488623	0.974032
rad38	0.00101519	0.995240	0.00456432	0.978597
PAH7+H	0.000631067	0.995871	0.00283729	0.981434
rad36	0.000561215	0.996432	0.00252324	0.983957
rad50	0.000435726	0.996868	0.00195903	0.985916
PAH3+H	0.000386860	0.997255	0.00173933	0.987656
PhCCH+CH3	0.000381079	0.997636	0.00171334	0.989369
rad46	0.000376152	0.998012	0.00169119	0.991060
rad30	0.000365761	0.998378	0.00164447	0.992705
rad35	0.000326581	0.998704	0.00146831	0.994173
rad39	0.000226852	0.998931	0.00101993	0.995193
rad19anti	0.000226161	0.999157	0.00101682	0.996210
rad7	0.000155175	0.999313	0.000697671	0.996907
rad51	0.000145013	0.999458	0.000651983	0.997559
Ph+MeAc	0.000112280	0.999570	0.000504812	0.998064
rad24	8.65339e-05	0.999656	0.000389058	0.998453
rad52	4.02421e-05	0.999697	0.000180930	0.998634
rad59	3.74568e-05	0.999734	0.000168407	0.998803
rad60syn	3.24277e-05	0.999767	0.000145796	0.998948
rad13	3.11708e-05	0.999798	0.000140145	0.999088
rad15	2.26874e-05	0.999820	0.000102003	0.999190
PhCCCH3+H	2.06140e-05	0.999841	9.26808e-05	0.999283
rad60anti	2.01075e-05	0.999861	9.04036e-05	0.999374
rad67	1.79725e-05	0.999879	8.08047e-05	0.999454
rad19syn	1.78716e-05	0.999897	8.03510e-05	0.999535
PAH10+CH3	1.53109e-05	0.999912	6.88383e-05	0.999604
PhcycC3H3_A+H	1.31928e-05	0.999925	5.93151e-05	0.999663
rad28	8.81860e-06	0.999934	3.96486e-05	0.999702
PAH1+H	8.02051e-06	0.999942	3.60604e-05	0.999739
rad12	7.22388e-06	0.999949	3.24787e-05	0.999771
rad54	7.09532e-06	0.999957	3.19007e-05	0.999803
rad71	6.18980e-06	0.999963	2.78295e-05	0.999831
rad37	5.62935e-06	0.999968	2.53097e-05	0.999856
rad8	5.61844e-06	0.999974	2.52606e-05	0.999881
rad73	4.28709e-06	0.999978	1.92748e-05	0.999901
rad58	3.95356e-06	0.999982	1.77753e-05	0.999918
rad65	3.82298e-06	0.999986	1.71882e-05	0.999936
rad25	3.07818e-06	0.999989	1.38396e-05	0.999949
rad70	2.70411e-06	0.999992	1.21577e-05	0.999962
rad33	1.91034e-06	0.999994	8.58893e-06	0.999970
rad47	1.42055e-06	0.999995	6.38685e-06	0.999977
rad10	1.05228e-06	0.999996	4.73107e-06	0.999981
rad34	7.31968e-07	0.999997	3.29094e-06	0.999985
rad26	7.21751e-07	0.999998	3.24501e-06	0.999988
rad55	5.54979e-07	0.999998	2.49520e-06	0.999990
rad2	2.87760e-07	0.999999	1.29378e-06	0.999992
PAH8+H	2.25282e-07	0.999999	1.01287e-06	0.999993
rad72	2.20351e-07	0.999999	9.90705e-07	0.999994
rad56	2.12820e-07	0.999999	9.56842e-07	0.999995
rad3	1.95737e-07	0.999999	8.80036e-07	0.999995
rad53	1.87751e-07	1.000000	8.44131e-07	0.999996
rad64	1.56083e-07	1.000000	7.01750e-07	0.999997
rad4	1.55303e-07	1.000000	6.98247e-07	0.999998
rad62	1.10747e-07	1.000000	4.97920e-07	0.999998
rad1	7.95753e-08	1.000000	3.57772e-07	0.999999
rad68syn	6.49278e-08	1.000000	2.91917e-07	0.999999
rad68anti	4.21750e-08	1.000000	1.89620e-07	0.999999
rad61	3.77983e-08	1.000000	1.69942e-07	0.999999
rad40syn	2.58919e-08	1.000000	1.16411e-07	0.999999
rad43	2.52072e-08	1.000000	1.13332e-07	0.999999
rad14	2.32589e-08	1.000000	1.04573e-07	1.000000
rad40anti	1.56234e-08	1.000000	7.02430e-08	1.000000
rad42	1.08213e-08	1.000000	4.86527e-08	1.000000
rad27	3.50255e-09	1.000000	1.57475e-08	1.000000
rad41	2.43891e-09	1.000000	1.09654e-08	1.000000
rad31	1.16705e-09	1.000000	5.24710e-09	1.000000

rad5 | 3.17618e-10 1.00000 | 1.42802e-09 1.000000

1000000.00 Pa, 1750.00000 K

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

Total | 9.18604e-14 (1.00) | 1.54264e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.832067	0.832067	0.00000	0.00000
Indene+H	0.0859603	0.918027	0.511873	0.511873
PhCH2CCH+H	0.0215264	0.939554	0.128185	0.640058
PhCHCCH2+H	0.0119394	0.951493	0.0710964	0.711154
Ph+Allene	0.0114520	0.962945	0.0681939	0.779348
rad50	0.00361367	0.966559	0.0215186	0.800867
rad22	0.00304234	0.969601	0.0181164	0.818983
rad39	0.00300048	0.972602	0.0178671	0.836850
rad51	0.00292055	0.975522	0.0173912	0.854242
PAH9+H	0.00291912	0.978441	0.0173826	0.871624
rad71	0.00257704	0.981018	0.0153456	0.886970
PAH7+H	0.00251916	0.983537	0.0150010	0.901971
PAH3+H	0.00239865	0.985936	0.0142834	0.916254
rad38	0.00235711	0.988293	0.0140360	0.930290
rad6	0.00144127	0.989734	0.00858240	0.938873
rad20	0.00117918	0.990914	0.00702174	0.945894
rad23	0.00110698	0.992021	0.00659181	0.952486
rad46	0.00107822	0.993099	0.00642053	0.958907
rad73	0.000803607	0.993902	0.00478529	0.963692
rad21	0.000536757	0.994439	0.00319626	0.966888
PhCCH+CH3	0.000519137	0.994958	0.00309134	0.969980
rad30	0.000509505	0.995468	0.00303398	0.973014
rad72	0.000496665	0.995965	0.00295752	0.975971
rad52	0.000496115	0.996461	0.00295425	0.978925
rad35	0.000485399	0.996946	0.00289044	0.981816
rad18	0.000418173	0.997364	0.00249012	0.984306
rad11	0.000391185	0.997755	0.00232941	0.986635
Ph+MeAc	0.000325917	0.998081	0.00194076	0.988576
rad19anti	0.000288134	0.998369	0.00171577	0.990292
PAH1+H	0.000224216	0.998594	0.00133515	0.991627
rad45	0.000174367	0.998768	0.00103831	0.992665
rad59	0.000170610	0.998939	0.00101594	0.993681
PAH10+CH3	0.000163163	0.999102	0.000971597	0.994653
rad67	9.85466e-05	0.999200	0.000586822	0.995240
PhCCCH3+H	9.37549e-05	0.999294	0.000558288	0.995798
rad60syn	8.86642e-05	0.999383	0.000527974	0.996326
rad19syn	7.75919e-05	0.999460	0.000462041	0.996788
PhcycC3H3_A+H	6.64484e-05	0.999527	0.000395685	0.997184
rad60anti	6.45267e-05	0.999591	0.000384241	0.997568
rad58	5.92167e-05	0.999651	0.000352622	0.997920
rad9	5.88879e-05	0.999709	0.000350663	0.998271
PAH8+H	5.17368e-05	0.999761	0.000308080	0.998579
rad65	4.84369e-05	0.999810	0.000288430	0.998868
rad70	3.24237e-05	0.999842	0.000193075	0.999061
rad36	3.03588e-05	0.999872	0.000180779	0.999242
rad7	1.70656e-05	0.999889	0.000101622	0.999343
rad34	1.46768e-05	0.999904	8.73969e-05	0.999431
rad37	1.36492e-05	0.999918	8.12777e-05	0.999512
rad54	1.34646e-05	0.999931	8.01785e-05	0.999592
rad47	1.09068e-05	0.999942	6.49473e-05	0.999657
rad24	8.12261e-06	0.999950	4.83682e-05	0.999705
rad28	6.91985e-06	0.999957	4.12060e-05	0.999747
rad64	6.77987e-06	0.999964	4.03725e-05	0.999787
rad68syn	5.22924e-06	0.999969	3.11389e-05	0.999818
rad15	4.60010e-06	0.999974	2.73925e-05	0.999845
rad40syn	3.67379e-06	0.999978	2.18766e-05	0.999867
rad68anti	3.32295e-06	0.999981	1.97874e-05	0.999887
rad40anti	2.87165e-06	0.999984	1.71000e-05	0.999904
rad62	2.44355e-06	0.999986	1.45508e-05	0.999919
rad56	2.28783e-06	0.999988	1.36235e-05	0.999932
rad8	2.17954e-06	0.999991	1.29787e-05	0.999945
rad13	1.91774e-06	0.999993	1.14197e-05	0.999957
rad61	1.68119e-06	0.999994	1.00111e-05	0.999967
rad55	1.47788e-06	0.999996	8.80044e-06	0.999976
rad53	1.38790e-06	0.999997	8.26461e-06	0.999984
rad12	6.13253e-07	0.999998	3.65177e-06	0.999987
rad42	5.85006e-07	0.999998	3.48357e-06	0.999991
rad26	5.10362e-07	0.999999	3.03908e-06	0.999994
rad25	3.87893e-07	0.999999	2.30981e-06	0.999996
rad43	3.27478e-07	0.999999	1.95005e-06	0.999998

rad10	1.20220e-07	1.000000	7.15880e-07	0.999999
rad33	1.13225e-07	1.000000	6.74228e-07	1.000000
rad41	8.66197e-08	1.000000	5.15800e-07	1.000000
rad2	1.11529e-08	1.000000	6.64128e-08	1.000000
rad3	5.39555e-09	1.000000	3.21292e-08	1.000000
rad1	3.88678e-09	1.000000	2.31448e-08	1.000000
rad14	3.55232e-09	1.000000	2.11532e-08	1.000000
rad4	3.33258e-09	1.000000	1.98447e-08	1.000000
rad5	2.40949e-09	1.000000	1.43479e-08	1.000000
rad27	5.31994e-10	1.000000	3.16790e-09	1.000000

1000000.00 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.56003e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.861888	0.861888	0.00000	0.00000
Indene+H	0.0671529	0.929041	0.486221	0.486221
PhCH2CCH+H	0.0233035	0.952344	0.168729	0.654950
Ph+Allene	0.0113127	0.963657	0.0819093	0.736859
PhCHCCH2+H	0.0103777	0.974035	0.0751394	0.811999
rad50	0.00273583	0.976771	0.0198088	0.831807
PAH9+H	0.00256974	0.979340	0.0186062	0.850414
rad39	0.00226413	0.981604	0.0163934	0.866807
rad51	0.00221043	0.983815	0.0160046	0.882812
rad71	0.00193044	0.985745	0.0139773	0.896789
PAH7+H	0.00189571	0.987641	0.0137259	0.910515
rad38	0.00182937	0.989470	0.0132455	0.923760
PAH3+H	0.00172723	0.991198	0.0125060	0.936266
rad22	0.000898210	0.992096	0.00650349	0.942770
rad46	0.000827686	0.992924	0.00599286	0.948763
rad23	0.000730523	0.993654	0.00528935	0.954052
rad6	0.000659235	0.994313	0.00477319	0.958825
rad73	0.000602805	0.994916	0.00436461	0.963190
rad20	0.000544228	0.995460	0.00394049	0.967130
rad30	0.000465177	0.995926	0.00336811	0.970498
rad35	0.000412367	0.996338	0.00298574	0.973484
PhCCH+CH3	0.000402705	0.996741	0.00291578	0.976400
rad52	0.000376555	0.997117	0.00272645	0.979126
rad72	0.000371314	0.997488	0.00268850	0.981815
rad19anti	0.000315898	0.997804	0.00228726	0.984102
Ph+MeAc	0.000290995	0.998095	0.00210695	0.986209
rad21	0.000257729	0.998353	0.00186609	0.988075
rad11	0.000185932	0.998539	0.00134624	0.989422
PAH1+H	0.000164488	0.998704	0.00119098	0.990612
rad18	0.000147601	0.998851	0.00106870	0.991681
rad59	0.000128550	0.998980	0.000930768	0.992612
rad45	0.000128249	0.999108	0.000928585	0.993541
PAH10+CH3	0.000123553	0.999231	0.000894587	0.994435
rad67	8.73489e-05	0.999319	0.000632450	0.995068
PhcycC3H3_A+H	8.05531e-05	0.999399	0.000583245	0.995651
PhCCH3+H	7.52350e-05	0.999475	0.000544739	0.996196
rad9	7.42310e-05	0.999549	0.000537470	0.996733
rad60syn	7.31458e-05	0.999622	0.000529612	0.997263
rad19syn	6.31497e-05	0.999685	0.000457235	0.997720
rad60anti	5.25329e-05	0.999738	0.000380364	0.998100
rad65	4.20232e-05	0.999780	0.000304269	0.998405
rad58	3.87366e-05	0.999818	0.000280472	0.998685
PAH8+H	3.60216e-05	0.999854	0.000260815	0.998946
rad70	2.35591e-05	0.999878	0.000170580	0.999116
rad36	2.25319e-05	0.999901	0.000163142	0.999280
rad54	1.48386e-05	0.999915	0.000107439	0.999387
rad37	1.09043e-05	0.999926	7.89523e-05	0.999466
rad34	1.04926e-05	0.999937	7.59717e-05	0.999542
rad7	8.43180e-06	0.999945	6.10505e-05	0.999603
rad47	7.46344e-06	0.999953	5.40391e-05	0.999657
rad28	5.83668e-06	0.999959	4.22605e-05	0.999699
rad15	5.15800e-06	0.999964	3.73465e-05	0.999737
rad24	5.10541e-06	0.999969	3.69657e-05	0.999774
rad64	4.94588e-06	0.999974	3.58107e-05	0.999809
rad68syn	3.65949e-06	0.999977	2.64965e-05	0.999836
rad56	3.03243e-06	0.999980	2.19563e-05	0.999858
rad40syn	2.56383e-06	0.999983	1.85634e-05	0.999876
rad68anti	2.32567e-06	0.999985	1.68390e-05	0.999893
rad8	2.25160e-06	0.999988	1.63027e-05	0.999910
rad62	2.05144e-06	0.999990	1.48535e-05	0.999924
rad40anti	2.00289e-06	0.999992	1.45019e-05	0.999939

rad53	1.78273e-06	0.999993	1.29079e-05	0.999952
rad55	1.69107e-06	0.999995	1.22442e-05	0.999964
rad61	1.24798e-06	0.999996	9.03602e-06	0.999973
rad13	1.05852e-06	0.999997	7.66421e-06	0.999981
rad12	8.13757e-07	0.999998	5.89201e-06	0.999987
rad26	5.26388e-07	0.999999	3.81132e-06	0.999990
rad42	4.92286e-07	0.999999	3.56440e-06	0.999994
rad25	2.91849e-07	1.000000	2.11314e-06	0.999996
rad43	2.49215e-07	1.000000	1.80444e-06	0.999998
rad10	1.23302e-07	1.000000	8.92771e-07	0.999999
rad33	6.82183e-08	1.000000	4.93934e-07	0.999999
rad41	6.44356e-08	1.000000	4.66546e-07	1.000000
rad2	1.24489e-08	1.000000	9.01362e-08	1.000000
rad5	8.23435e-09	1.000000	5.96208e-08	1.000000
rad1	4.42508e-09	1.000000	3.20398e-08	1.000000
rad3	3.01211e-09	1.000000	2.18092e-08	1.000000
rad14	2.61576e-09	1.000000	1.89394e-08	1.000000
rad4	1.85287e-09	1.000000	1.34157e-08	1.000000
rad27	5.09316e-10	1.000000	3.68770e-09	1.000000

1000000.00 Pa, 2250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	4.10571e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.875258	0.875258	0.000000	0.000000
Indene+H	0.0532641	0.928522	0.426996	0.426996
PhCH2CCH+H	0.0297154	0.958237	0.238216	0.665212
Ph+Allene	0.0112685	0.969506	0.0903348	0.755547
PhCHCCH2+H	0.0106512	0.980157	0.0853865	0.840933
PAH9+H	0.00224489	0.982402	0.0179963	0.858930
rad50	0.00208185	0.984484	0.0166893	0.875619
rad39	0.00172126	0.986205	0.0137986	0.889418
rad51	0.00168242	0.987888	0.0134872	0.902905
PAH7+H	0.00150481	0.989392	0.0120634	0.914968
rad71	0.00145679	0.990849	0.0116785	0.926647
PAH3+H	0.00145649	0.992306	0.0116761	0.938323
rad38	0.00143718	0.993743	0.0115212	0.949844
rad46	0.000641586	0.994384	0.00514332	0.954987
rad73	0.000455096	0.994840	0.00364831	0.958636
rad30	0.000453562	0.995293	0.00363601	0.962272
rad19anti	0.000413152	0.995706	0.00331207	0.965584
rad23	0.000377797	0.996084	0.00302863	0.968612
rad35	0.000366270	0.996450	0.00293623	0.971548
PhCCH+CH3	0.000344246	0.996795	0.00275968	0.974308
rad6	0.000336075	0.997131	0.00269417	0.977002
rad22	0.000300651	0.997431	0.00241019	0.979413
Ph+MeAc	0.000296277	0.997728	0.00237513	0.981788
rad52	0.000287402	0.998015	0.00230398	0.984092
rad72	0.000280098	0.998295	0.00224543	0.986337
rad20	0.000279280	0.998574	0.00223887	0.988576
rad21	0.000133409	0.998708	0.00106948	0.989645
PAH1+H	0.000124476	0.998832	0.000997869	0.990643
rad59	0.000114721	0.998947	0.000919673	0.991563
PAH10+CH3	0.000100895	0.999048	0.000808834	0.992372
rad11	9.59131e-05	0.999144	0.000768895	0.993141
rad45	9.40153e-05	0.999238	0.000753681	0.993894
rad67	9.09250e-05	0.999329	0.000728907	0.994623
rad9	8.06324e-05	0.999409	0.000646396	0.995270
PhCCCH3+H	7.54350e-05	0.999485	0.000604731	0.995874
PhcycC3H3_A+H	7.21355e-05	0.999557	0.000578280	0.996453
rad60syn	7.00593e-05	0.999627	0.000561635	0.997014
rad18	6.42065e-05	0.999691	0.000514716	0.997529
rad19syn	5.14949e-05	0.999743	0.000412813	0.997942
rad60anti	4.98935e-05	0.999793	0.000399975	0.998342
rad65	3.79530e-05	0.999831	0.000304253	0.998646
rad58	2.74155e-05	0.999858	0.000219778	0.998866
PAH8+H	2.58366e-05	0.999884	0.000207121	0.999073
rad70	1.85363e-05	0.999902	0.000148597	0.999222
rad36	1.66527e-05	0.999919	0.000133498	0.999355
rad54	1.28810e-05	0.999932	0.000103261	0.999458
rad37	9.88492e-06	0.999942	7.92432e-05	0.999538
rad34	8.01123e-06	0.999950	6.42226e-05	0.999602
rad7	5.97885e-06	0.999956	4.79299e-05	0.999650
rad15	5.64854e-06	0.999961	4.52819e-05	0.999695
rad47	5.19268e-06	0.999967	4.16275e-05	0.999737
rad28	3.87074e-06	0.999970	3.10301e-05	0.999768

rad64	3.71527e-06	0.999974	2.97838e-05	0.999979
rad24	3.35883e-06	0.999978	2.69263e-05	0.999824
rad56	2.78303e-06	0.999980	2.23104e-05	0.999847
rad68syn	2.66205e-06	0.999983	2.13405e-05	0.999868
rad8	2.34824e-06	0.999985	1.88249e-05	0.999887
rad40syn	1.84977e-06	0.999987	1.48288e-05	0.999902
rad68anti	1.69221e-06	0.999989	1.35657e-05	0.999915
rad62	1.68883e-06	0.999991	1.35386e-05	0.999929
rad53	1.61063e-06	0.999992	1.29117e-05	0.999942
rad55	1.47618e-06	0.999994	1.18339e-05	0.999954
rad40anti	1.44252e-06	0.999995	1.15641e-05	0.999965
rad12	1.05573e-06	0.999996	8.46336e-06	0.999974
rad61	9.78863e-07	0.999997	7.84713e-06	0.999981
rad13	7.65899e-07	0.999998	6.13989e-06	0.999988
rad26	5.25649e-07	0.999998	4.21391e-06	0.999992
rad42	4.07051e-07	0.999999	3.26315e-06	0.999995
rad25	2.12882e-07	0.999999	1.70659e-06	0.999997
rad43	2.10524e-07	0.999999	1.68768e-06	0.999998
rad10	1.45673e-07	0.999999	1.16780e-06	1.000000
rad33	5.25303e-08	0.999999	4.21113e-07	1.000000
rad41	5.19510e-08	0.999999	4.16469e-07	1.000000
rad2	1.48232e-08	1.000000	1.18831e-07	1.000000
rad5	1.31182e-08	1.000000	1.05163e-07	1.000000
rad1	5.42998e-09	1.000000	4.35298e-08	1.000000
rad3	2.16005e-09	1.000000	1.73162e-08	1.000000
rad14	2.10353e-09	1.000000	1.68631e-08	1.000000
rad4	1.31635e-09	1.000000	1.05526e-08	1.000000
rad27	5.81556e-10	1.000000	4.66209e-09	1.000000

1000000.00 Pa, 2500.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	5.32896e-13 (1.00)		6.50154e-14 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.877996	0.877996	0.00000	0.00000
Indene+H	0.0433630	0.921359	0.355422	0.355422
PhCH2CCH+H	0.0388971	0.960256	0.318817	0.674239
PhCHCCH2+H	0.0119287	0.972185	0.0977723	0.772011
Ph+Allene	0.0115502	0.983735	0.0946699	0.866681
PAH9+H	0.00184658	0.985582	0.0151354	0.881817
rad50	0.00159957	0.987181	0.0131107	0.894927
PAH3+H	0.00153818	0.988719	0.0126076	0.907535
rad39	0.00131894	0.990038	0.0108106	0.918346
rad51	0.00127775	0.991316	0.0104730	0.928819
PAH7+H	0.00127710	0.992593	0.0104676	0.939286
rad38	0.00116093	0.993754	0.00951544	0.948802
rad71	0.00108842	0.994842	0.00892111	0.957723
rad19anti	0.000534904	0.995377	0.00438430	0.962107
rad46	0.000510330	0.995888	0.00418288	0.966290
rad30	0.000456512	0.996344	0.00374177	0.970032
rad73	0.000340589	0.996685	0.00279161	0.972823
rad35	0.000333650	0.997018	0.00273474	0.975558
Ph+MeAc	0.000326386	0.997345	0.00267520	0.978233
PhCCH+CH3	0.000320005	0.997665	0.00262290	0.980856
rad23	0.000227916	0.997893	0.00186809	0.982724
rad52	0.000219861	0.998113	0.00180207	0.984526
rad72	0.000208967	0.998322	0.00171279	0.986239
rad6	0.000194903	0.998516	0.00159751	0.987837
rad20	0.000157069	0.998674	0.00128740	0.989124
rad22	0.000126260	0.998800	0.00103488	0.990159
rad59	0.000123631	0.998923	0.00101333	0.991172
rad67	0.000103665	0.999027	0.000849684	0.992022
PAH1+H	9.59607e-05	0.999123	0.000786535	0.992808
PAH10+CH3	8.93162e-05	0.999212	0.000732073	0.993540
PhCCCH3+H	8.58581e-05	0.999298	0.000703729	0.994244
rad60syn	7.54006e-05	0.999374	0.000618015	0.994862
rad9	7.53278e-05	0.999449	0.000617419	0.995480
rad21	7.43532e-05	0.999523	0.000609430	0.996089
rad45	6.91957e-05	0.999593	0.000567157	0.996656
PhcycC3H3_A+H	5.56810e-05	0.999648	0.000456385	0.997113
rad60anti	5.37857e-05	0.999702	0.000440850	0.997553
rad11	5.13059e-05	0.999753	0.000420525	0.997974
rad19syn	4.53898e-05	0.999799	0.000372034	0.998346
rad18	3.11404e-05	0.999830	0.000255240	0.998601
rad65	2.99523e-05	0.999860	0.000245502	0.998847
rad58	2.59847e-05	0.999886	0.000212981	0.999060
PAH8+H	1.91968e-05	0.999905	0.000157345	0.999217

rad70	1.62096e-05	0.999921	0.000132860	0.999350
rad36	1.23475e-05	0.999934	0.000101205	0.999451
rad54	1.06853e-05	0.999944	8.75815e-05	0.999539
rad37	1.00806e-05	0.999954	8.26250e-05	0.999621
rad34	6.73007e-06	0.999961	5.51625e-05	0.999676
rad15	5.48291e-06	0.999967	4.49402e-05	0.999721
rad7	4.35783e-06	0.999971	3.57186e-05	0.999757
rad47	3.64154e-06	0.999975	2.98476e-05	0.999787
rad64	2.83761e-06	0.999977	2.32582e-05	0.999810
rad28	2.76372e-06	0.999980	2.26526e-05	0.999833
rad8	2.40734e-06	0.999983	1.97315e-05	0.999853
rad24	2.32737e-06	0.999985	1.90761e-05	0.999872
rad56	2.08409e-06	0.999987	1.70821e-05	0.999889
rad68syn	2.05317e-06	0.999989	1.68286e-05	0.999906
rad40syn	1.39493e-06	0.999990	1.14335e-05	0.999917
rad68anti	1.30585e-06	0.999992	1.07033e-05	0.999928
rad62	1.29068e-06	0.999993	1.05790e-05	0.999938
rad53	1.22710e-06	0.999994	1.00579e-05	0.999948
rad12	1.20138e-06	0.999995	9.84705e-06	0.999958
rad55	1.19983e-06	0.999997	9.83430e-06	0.999968
rad40anti	1.08190e-06	0.999998	8.86772e-06	0.999977
rad61	8.00027e-07	0.999998	6.55736e-06	0.999983
rad13	5.65740e-07	0.999999	4.63705e-06	0.999988
rad26	5.15859e-07	1.000000	4.22820e-06	0.999992
rad42	3.05992e-07	1.000000	2.50804e-06	0.999995
rad43	1.97860e-07	1.000000	1.62174e-06	0.999996
rad10	1.61254e-07	1.000000	1.32170e-06	0.999998
rad25	1.54706e-07	1.000000	1.26804e-06	0.999999
rad41	4.49760e-08	1.000000	3.68642e-07	0.999999
rad33	4.18816e-08	1.000000	3.43280e-07	1.000000
rad5	1.68566e-08	1.000000	1.38164e-07	1.000000
rad2	1.55907e-08	1.000000	1.27788e-07	1.000000
rad1	5.97867e-09	1.000000	4.90037e-08	1.000000
rad14	1.77649e-09	1.000000	1.45608e-08	1.000000
rad3	1.58183e-09	1.000000	1.29653e-08	1.000000
rad4	9.50367e-10	1.000000	7.78961e-09	1.000000
rad27	6.68257e-10	1.000000	5.47731e-09	1.000000

1000000.00 Pa, 2750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.05113e-13 (1.00)	1.01425e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.874024	0.874024	0.00000	0.00000
PhCH2CCH+H	0.0496915	0.923716	0.394450	0.394450
Indene+H	0.0360113	0.959727	0.285858	0.680308
PhCHCCH2+H	0.0138323	0.973559	0.109801	0.790109
Ph+Allene	0.0122494	0.985808	0.0972354	0.887344
PAH3+H	0.00180293	0.987611	0.0143117	0.901656
PAH9+H	0.00153432	0.989146	0.0121795	0.913836
rad50	0.00125658	0.990402	0.00997472	0.923810
PAH7+H	0.00116174	0.991564	0.00922185	0.933032
rad39	0.00102971	0.992594	0.00817382	0.941206
rad51	0.000979993	0.993574	0.00777918	0.948985
rad38	0.000972341	0.994546	0.00771844	0.956704
rad71	0.000804999	0.995351	0.00639008	0.963094
rad19anti	0.000642340	0.995993	0.00509889	0.968193
rad30	0.000459580	0.996453	0.00364814	0.971841
rad46	0.000420675	0.996874	0.00333932	0.975180
Ph+MeAc	0.000375149	0.997249	0.00297793	0.978158
rad35	0.000320542	0.997569	0.00254446	0.980702
PhCCH+CH3	0.000320228	0.997890	0.00254197	0.983244
rad73	0.000253276	0.998143	0.00201050	0.985255
rad52	0.000170923	0.998314	0.00135678	0.986612
rad72	0.000153645	0.998467	0.00121963	0.987831
rad23	0.000145863	0.998613	0.00115786	0.988989
rad59	0.000143179	0.998757	0.00113655	0.990126
rad67	0.000122173	0.998879	0.000969806	0.991096
rad6	0.000112039	0.998991	0.000889364	0.991985
PhCCCH3+H	0.000101908	0.999093	0.000808946	0.992794
rad20	9.55156e-05	0.999188	0.000758203	0.993552
PAH10+CH3	8.62000e-05	0.999274	0.000684255	0.994236
rad60syn	8.37122e-05	0.999358	0.000664507	0.994901
PAH1+H	7.74757e-05	0.999436	0.000615001	0.995516
rad9	6.23816e-05	0.999498	0.000495185	0.996011
rad60anti	6.01177e-05	0.999558	0.000477214	0.996488
rad22	5.97924e-05	0.999618	0.000474632	0.996963

rad45	5.03575e-05	0.999668	0.000399737	0.997363
rad19syn	4.73308e-05	0.999716	0.000375712	0.997738
rad21	4.43441e-05	0.999760	0.000352004	0.998090
PhcycC3H3_A+H	4.32539e-05	0.999803	0.000343349	0.998434
rad58	3.06770e-05	0.999834	0.000243514	0.998677
rad11	2.89915e-05	0.999863	0.000230135	0.998907
rad65	2.27154e-05	0.999885	0.000180315	0.999088
rad18	1.64281e-05	0.999902	0.000130406	0.999218
rad70	1.59115e-05	0.999918	0.000126305	0.999344
PAH8+H	1.52643e-05	0.999933	0.000121168	0.999465
rad37	1.08972e-05	0.999944	8.65017e-05	0.999552
rad54	9.40287e-06	0.999953	7.46399e-05	0.999627
rad36	9.04263e-06	0.999962	7.17804e-05	0.999698
rad34	6.37551e-06	0.999969	5.06088e-05	0.999749
rad15	4.73750e-06	0.999974	3.76063e-05	0.999787
rad7	2.96834e-06	0.999977	2.35626e-05	0.999810
rad47	2.59436e-06	0.999979	2.05940e-05	0.999831
rad8	2.41488e-06	0.999982	1.91693e-05	0.999850
rad64	2.26153e-06	0.999984	1.79520e-05	0.999868
rad28	1.97450e-06	0.999986	1.56736e-05	0.999884
rad68syn	1.74941e-06	0.999988	1.38868e-05	0.999897
rad24	1.67595e-06	0.999989	1.33037e-05	0.999911
rad56	1.56940e-06	0.999991	1.24579e-05	0.999923
rad12	1.20557e-06	0.999992	9.56984e-06	0.999933
rad40syn	1.14177e-06	0.999993	9.06335e-06	0.999942
rad68anti	1.11354e-06	0.999994	8.83929e-06	0.999951
rad55	1.03322e-06	0.999995	8.20173e-06	0.999959
rad62	1.00558e-06	0.999996	7.98231e-06	0.999967
rad53	9.58588e-07	0.999997	7.60926e-06	0.999974
rad40anti	8.75952e-07	0.999998	6.95330e-06	0.999981
rad61	6.95349e-07	0.999999	5.51968e-06	0.999987
rad26	4.61784e-07	0.999999	3.66564e-06	0.999991
rad13	3.93493e-07	1.000000	3.12354e-06	0.999994
rad42	2.29634e-07	1.000000	1.82283e-06	0.999996
rad43	2.07932e-07	1.000000	1.65056e-06	0.999997
rad10	1.57658e-07	1.000000	1.25149e-06	0.999998
rad25	1.15302e-07	1.000000	9.15268e-07	0.999999
rad41	4.33757e-08	1.000000	3.44316e-07	1.000000
rad33	3.15099e-08	1.000000	2.50125e-07	1.000000
rad5	1.94660e-08	1.000000	1.54521e-07	1.000000
rad2	1.44156e-08	1.000000	1.14431e-07	1.000000
rad1	5.85408e-09	1.000000	4.64696e-08	1.000000
rad14	1.54398e-09	1.000000	1.22561e-08	1.000000
rad3	1.09846e-09	1.000000	8.71957e-09	1.000000
rad27	7.11413e-10	1.000000	5.64719e-09	1.000000
rad4	6.50079e-10	1.000000	5.16033e-09	1.000000

1000000.00 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15309e-12 (1.00)	1.54714e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.865827	0.865827	0.000000	0.000000
PhCH2CCH+H	0.0613941	0.927221	0.457575	0.457575
Indene+H	0.0302404	0.957461	0.225384	0.682959
PhCHCCH2+H	0.0161498	0.973611	0.120366	0.803325
Ph+Allene	0.0132932	0.986904	0.0990751	0.902400
PAH3+H	0.00213623	0.989041	0.0159215	0.918322
PAH9+H	0.00131778	0.990359	0.00982152	0.928143
PAH7+H	0.00112120	0.991480	0.00835636	0.936499
rad50	0.00102430	0.992504	0.00763422	0.944134
rad38	0.000842867	0.993347	0.00628195	0.950416
rad39	0.000832311	0.994179	0.00620328	0.956619
rad51	0.000773561	0.994953	0.00576541	0.962384
rad19anti	0.000714687	0.995667	0.00532662	0.967711
rad71	0.000596902	0.996264	0.00444875	0.972160
rad30	0.000457091	0.996721	0.00340673	0.975566
Ph+MeAc	0.000436198	0.997158	0.00325102	0.978817
rad46	0.000360241	0.997518	0.00268490	0.981502
PhCCH+CH3	0.000345737	0.997864	0.00257680	0.984079
rad35	0.000320707	0.998184	0.00239025	0.986469
rad73	0.000189978	0.998374	0.00141592	0.987885
rad59	0.000165620	0.998540	0.00123438	0.989120
rad67	0.000143690	0.998684	0.00107093	0.990191
rad52	0.000137437	0.998821	0.00102433	0.991215
PhCCCH3+H	0.000121026	0.998942	0.000902018	0.992117
rad72	0.000112333	0.999054	0.000837229	0.992954

rad23	9.38973e-05	0.999148	0.000699824	0.993654
rad60syn	9.19152e-05	0.999240	0.000685051	0.994339
PAH10+CH3	8.94138e-05	0.999330	0.000666408	0.995006
PAH1+H	6.77053e-05	0.999397	0.000504612	0.995510
rad60anti	6.65299e-05	0.999464	0.000495852	0.996006
rad6	6.26172e-05	0.999526	0.000466691	0.996473
rad20	6.19578e-05	0.999588	0.000461777	0.996934
rad19syn	5.75899e-05	0.999646	0.000429222	0.997364
rad9	4.74142e-05	0.999693	0.000353382	0.997717
rad58	3.86554e-05	0.999732	0.000288102	0.998005
PhcycC3H3_A+H	3.68047e-05	0.999769	0.000274308	0.998279
rad45	3.60395e-05	0.999805	0.000268605	0.998548
rad22	3.08544e-05	0.999836	0.000229960	0.998778
rad21	2.80372e-05	0.999864	0.000208963	0.998987
rad65	1.76557e-05	0.999881	0.000131589	0.999119
rad11	1.75528e-05	0.999899	0.000130822	0.999249
rad70	1.72124e-05	0.999916	0.000128285	0.999378
PAH8+H	1.37623e-05	0.999930	0.000102571	0.999480
rad37	1.18353e-05	0.999942	8.82094e-05	0.999568
rad18	9.30255e-06	0.999951	6.93327e-05	0.999638
rad54	8.93719e-06	0.999960	6.66095e-05	0.999704
rad34	6.78290e-06	0.999967	5.05535e-05	0.999755
rad36	6.50494e-06	0.999973	4.84818e-05	0.999803
rad15	3.75062e-06	0.999977	2.79536e-05	0.999831
rad8	2.37348e-06	0.999979	1.76898e-05	0.999849
rad64	1.94840e-06	0.999981	1.45216e-05	0.999864
rad7	1.91321e-06	0.999983	1.42593e-05	0.999878
rad47	1.91028e-06	0.999985	1.42375e-05	0.999892
rad68syn	1.71522e-06	0.999987	1.27836e-05	0.999905
rad28	1.38261e-06	0.999988	1.03047e-05	0.999915
rad56	1.33655e-06	0.999990	9.96141e-06	0.999925
rad24	1.23575e-06	0.999991	9.21014e-06	0.999934
rad12	1.10067e-06	0.999992	8.20339e-06	0.999943
rad68anti	1.09260e-06	0.999993	8.14325e-06	0.999951
rad40syn	1.06970e-06	0.999994	7.97252e-06	0.999959
rad55	9.74319e-07	0.999995	7.26167e-06	0.999966
rad62	8.56816e-07	0.999996	6.38592e-06	0.999972
rad53	8.46157e-07	0.999997	6.30648e-06	0.999979
rad40anti	8.09261e-07	0.999998	6.03148e-06	0.999985
rad61	6.61670e-07	0.999998	4.93148e-06	0.999990
rad26	3.78587e-07	0.999999	2.82164e-06	0.999992
rad13	2.61164e-07	0.999999	1.94648e-06	0.999994
rad43	2.35813e-07	0.999999	1.75753e-06	0.999996
rad42	1.86034e-07	0.999999	1.38652e-06	0.999997
rad10	1.38606e-07	1.000000	1.03304e-06	0.999999
rad25	8.90443e-08	1.000000	6.63654e-07	0.999999
rad41	4.69128e-08	1.000000	3.49645e-07	1.000000
rad33	2.25651e-08	1.000000	1.68179e-07	1.000000
rad5	2.08678e-08	1.000000	1.55529e-07	1.000000
rad2	1.21227e-08	1.000000	9.03512e-08	1.000000
rad1	5.24375e-09	1.000000	3.90821e-08	1.000000
rad14	1.36916e-09	1.000000	1.02044e-08	1.000000
rad3	7.33081e-10	1.000000	5.46371e-09	1.000000
rad27	6.98328e-10	1.000000	5.20469e-09	1.000000
rad4	4.27770e-10	1.000000	3.18821e-09	1.000000

1000000.00 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.58309e-12 (1.00)	2.29534e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.855009	0.855009	0.00000	0.00000
PhCH2CCH+H	0.0735315	0.928540	0.507146	0.507146
Indene+H	0.0255357	0.954076	0.176120	0.683266
PhCHCCH2+H	0.0187147	0.972791	0.129075	0.812341
Ph+Allene	0.0145884	0.987379	0.100616	0.912957
PAH3+H	0.00247633	0.989856	0.0170793	0.930036
PAH9+H	0.00116369	0.991019	0.00802599	0.938062
PAH7+H	0.00112654	0.992146	0.00776977	0.945832
rad50	0.000874465	0.993020	0.00603118	0.951863
rad38	0.000749330	0.993770	0.00516813	0.957031
rad19anti	0.000748902	0.994519	0.00516518	0.962197
rad39	0.000705626	0.995224	0.00486670	0.967063
rad51	0.000639464	0.995864	0.00441038	0.971474
Ph+MeAc	0.000501947	0.996366	0.00346193	0.974936
rad71	0.000453644	0.996819	0.00312879	0.978064
rad30	0.000448233	0.997267	0.00309146	0.981156

PhCCH+CH3	0.000399105	0.997667	0.00275263	0.983908
rad35	0.000326680	0.997993	0.00225311	0.986162
rad46	0.000318688	0.998312	0.00219799	0.988360
rad59	0.000187021	0.998499	0.00128988	0.989649
rad67	0.000165557	0.998665	0.00114185	0.990791
rad73	0.000147145	0.998812	0.00101486	0.991806
PhCCCH3+H	0.000141971	0.998954	0.000979174	0.992785
rad52	0.000115779	0.999069	0.000798524	0.993584
rad60syn	9.86982e-05	0.999168	0.000680721	0.994265
PAH10+CH3	9.66682e-05	0.999265	0.000666720	0.994931
rad72	8.31639e-05	0.999348	0.000573582	0.995505
rad19syn	7.55846e-05	0.999424	0.000521307	0.996026
rad60anti	7.19829e-05	0.999496	0.000496466	0.996523
PAH1+H	6.50013e-05	0.999561	0.000448314	0.996971
rad23	6.02806e-05	0.999621	0.000415755	0.997387
rad58	4.82427e-05	0.999669	0.000332730	0.997719
rad20	4.23680e-05	0.999711	0.000292212	0.998012
PhcycC3H3_A+H	3.49137e-05	0.999746	0.000240800	0.998252
rad6	3.46224e-05	0.999781	0.000238791	0.998491
rad9	3.41184e-05	0.999815	0.000235315	0.998727
rad45	2.53818e-05	0.999840	0.000175058	0.998902
rad70	1.97567e-05	0.999860	0.000136262	0.999038
rad21	1.86174e-05	0.999879	0.000128404	0.999166
rad22	1.71460e-05	0.999896	0.000118256	0.999285
PAH8+H	1.46343e-05	0.999911	0.000100933	0.999385
rad65	1.44891e-05	0.999925	9.99310e-05	0.999485
rad37	1.25806e-05	0.999938	8.67685e-05	0.999572
rad11	1.13993e-05	0.999949	7.86207e-05	0.999651
rad54	8.97567e-06	0.999958	6.19052e-05	0.999713
rad34	7.81847e-06	0.999966	5.39240e-05	0.999767
rad18	5.58959e-06	0.999971	3.85514e-05	0.999805
rad36	4.59994e-06	0.999976	3.17258e-05	0.999837
rad15	2.80217e-06	0.999979	1.93266e-05	0.999856
rad8	2.29035e-06	0.999981	1.57965e-05	0.999872
rad68syn	1.93005e-06	0.999983	1.33115e-05	0.999885
rad64	1.85148e-06	0.999985	1.27697e-05	0.999898
rad47	1.48092e-06	0.999986	1.02139e-05	0.999908
rad56	1.32753e-06	0.999988	9.15597e-06	0.999917
rad68anti	1.22988e-06	0.999989	8.48246e-06	0.999926
rad7	1.20005e-06	0.999990	8.27677e-06	0.999934
rad40syn	1.17108e-06	0.999991	8.07694e-06	0.999942
rad55	9.85354e-07	0.999992	6.79599e-06	0.999949
rad28	9.57675e-07	0.999993	6.60508e-06	0.999956
rad12	9.42944e-07	0.999994	6.50348e-06	0.999962
rad24	9.23310e-07	0.999995	6.36807e-06	0.999969
rad40anti	8.77167e-07	0.999996	6.04982e-06	0.999975
rad53	8.52286e-07	0.999997	5.87822e-06	0.999980
rad62	8.22297e-07	0.999998	5.67138e-06	0.999986
rad61	6.91282e-07	0.999998	4.76777e-06	0.999991
rad26	2.91241e-07	0.999999	2.00869e-06	0.999993
rad43	2.75725e-07	0.999999	1.90168e-06	0.999995
rad42	1.71194e-07	0.999999	1.18072e-06	0.999996
rad13	1.69966e-07	0.999999	1.17226e-06	0.999997
rad10	1.13083e-07	0.999999	7.79935e-07	0.999998
rad25	7.10666e-08	0.999999	4.90147e-07	0.999998
rad41	5.49177e-08	1.000000	3.78768e-07	0.999999
rad5	2.13097e-08	1.000000	1.46973e-07	0.999999
rad33	1.57826e-08	1.000000	1.08852e-07	0.999999
rad2	9.61763e-09	1.000000	6.63328e-08	0.999999
rad1	4.42601e-09	1.000000	3.05262e-08	0.999999
rad14	1.22975e-09	1.000000	8.48162e-09	0.999999
rad27	6.44628e-10	1.000000	4.44600e-09	0.999999
rad3	4.82685e-10	1.000000	3.32908e-09	0.999999
rad4	2.78320e-10	1.000000	1.91957e-09	0.999999

1000000.00 Pa, 3500.00000 K

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

Total | 2.10046e-12 (1.00) | 3.30535e-13 (1.00)

species | PYtrue | Cumul | PYeffective | Cumul

Benzyl+C2H2 | 0.842637 | 0.842637 | 0.000000 | 0.000000
PhCH2CCH+H | 0.0857620 | 0.928399 | 0.544994 | 0.544994
Indene+H | 0.0216370 | 0.950036 | 0.137497 | 0.682491
PhCHCCH2+H | 0.0213919 | 0.971428 | 0.135940 | 0.818431
Ph+Allene | 0.0160572 | 0.987485 | 0.102039 | 0.920470
PAH3+H | 0.00279119 | 0.990276 | 0.0177372 | 0.938207
PAH7+H | 0.00115543 | 0.991432 | 0.00734242 | 0.945550

PAH9+H	0.00104326	0.992475	0.00662965	0.952179
rad50	0.000780477	0.993255	0.00495972	0.957139
rad19anti	0.000751697	0.994007	0.00477683	0.961916
rad38	0.000675164	0.994682	0.00429048	0.966206
rad39	0.000628924	0.995311	0.00399664	0.970203
Ph+MeAc	0.000565083	0.995876	0.00359094	0.973794
rad51	0.000557686	0.996434	0.00354394	0.977338
PhCCH+CH3	0.000481270	0.996915	0.00305834	0.980396
rad30	0.000434080	0.997349	0.00275846	0.983155
rad71	0.000363540	0.997713	0.00231020	0.985465
rad35	0.000333357	0.998046	0.00211839	0.987583
rad46	0.000288062	0.998334	0.00183055	0.989414
rad59	0.000205567	0.998540	0.00130632	0.990720
rad67	0.000185521	0.998725	0.00117894	0.991899
PhCCCH3+H	0.000164361	0.998890	0.00104447	0.992943
rad73	0.000120756	0.999011	0.000767370	0.993711
PAH10+CH3	0.000105762	0.999116	0.000672090	0.994383
rad60syn	0.000103654	0.999220	0.000658696	0.995042
rad52	0.000102327	0.999322	0.000650262	0.995692
rad19syn	0.000100321	0.999423	0.000637509	0.996329
rad60anti	7.61225e-05	0.999499	0.000483738	0.996813
PAH1+H	6.75847e-05	0.999566	0.000429482	0.997243
rad72	6.41571e-05	0.999630	0.000407701	0.997650
rad58	5.83976e-05	0.999689	0.000371100	0.998021
rad23	3.86804e-05	0.999728	0.000245803	0.998267
PhcycC3H3_A+H	3.57687e-05	0.999763	0.000227301	0.998495
rad20	3.02532e-05	0.999794	0.000192250	0.998687
rad9	2.38283e-05	0.999817	0.000151422	0.998838
rad70	2.31987e-05	0.999841	0.000147421	0.998986
rad6	1.93614e-05	0.999860	0.000123037	0.999109
PAH8+H	1.78666e-05	0.999878	0.000113537	0.999222
rad45	1.76532e-05	0.999895	0.000112181	0.999334
rad37	1.29964e-05	0.999908	8.25887e-05	0.999417
rad21	1.28790e-05	0.999921	8.18424e-05	0.999499
rad65	1.26487e-05	0.999934	8.03792e-05	0.999579
rad22	1.01680e-05	0.999944	6.46148e-05	0.999644
rad34	9.34632e-06	0.999953	5.93933e-05	0.999703
rad54	9.27314e-06	0.999963	5.89283e-05	0.999762
rad11	7.88300e-06	0.999971	5.00943e-05	0.999812
rad18	3.52934e-06	0.999974	2.24280e-05	0.999835
rad36	3.20903e-06	0.999977	2.03925e-05	0.999855
rad68syn	2.37217e-06	0.999980	1.50745e-05	0.999870
rad8	2.17390e-06	0.999982	1.38145e-05	0.999884
rad15	2.02402e-06	0.999984	1.28621e-05	0.999897
rad64	1.91927e-06	0.999986	1.21964e-05	0.999909
rad68anti	1.51143e-06	0.999987	9.60469e-06	0.999919
rad56	1.46965e-06	0.999989	9.33923e-06	0.999928
rad40syn	1.43902e-06	0.999990	9.14459e-06	0.999937
rad47	1.22092e-06	0.999992	7.75864e-06	0.999945
rad40anti	1.07610e-06	0.999993	6.83832e-06	0.999952
rad55	1.03420e-06	0.999994	6.57203e-06	0.999958
rad53	9.34647e-07	0.999995	5.93942e-06	0.999964
rad62	8.71969e-07	0.999995	5.54113e-06	0.999970
rad12	7.76668e-07	0.999996	4.93551e-06	0.999975
rad61	7.69688e-07	0.999997	4.89116e-06	0.999980
rad7	7.50506e-07	0.999998	4.76926e-06	0.999984
rad24	6.95177e-07	0.999998	4.41766e-06	0.999989
rad28	6.62941e-07	0.999999	4.21281e-06	0.999993
rad43	3.22421e-07	0.999999	2.04890e-06	0.999995
rad26	2.15201e-07	1.000000	1.36755e-06	0.999996
rad42	1.78910e-07	1.000000	1.13692e-06	0.999998
rad13	1.11000e-07	1.000000	7.05372e-07	0.999998
rad10	8.80840e-08	1.000000	5.59750e-07	0.999999
rad41	6.64458e-08	1.000000	4.22245e-07	0.999999
rad25	5.81771e-08	1.000000	3.69699e-07	1.000000
rad5	2.11430e-08	1.000000	1.34358e-07	1.000000
rad33	1.10252e-08	1.000000	7.00620e-08	1.000000
rad2	7.43205e-09	1.000000	4.72286e-08	1.000000
rad1	3.60402e-09	1.000000	2.29025e-08	1.000000
rad14	1.11074e-09	1.000000	7.05847e-09	1.000000
rad27	5.71907e-10	1.000000	3.63431e-09	1.000000
rad3	3.20673e-10	1.000000	2.03779e-09	1.000000
rad4	1.83253e-10	1.000000	1.16452e-09	1.000000

1000000.00 Pa, 3750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.70978e-12 (1.00)	4.62190e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829436	0.829436	0.00000	0.00000
PhCH2CCH+H	0.0978364	0.927272	0.573604	0.573604
PhCHCCH2+H	0.0240842	0.951357	0.141203	0.714807
Indene+H	0.0183976	0.969754	0.107863	0.822670
Ph+Allene	0.0176402	0.987394	0.103423	0.926093
PAH3+H	0.00306565	0.990460	0.0179735	0.944067
PAH7+H	0.00119213	0.991652	0.00698934	0.951056
PAH9+H	0.000939416	0.992592	0.00550769	0.956564
rad19anti	0.000732368	0.993324	0.00429380	0.960857
rad50	0.000720256	0.994044	0.00422278	0.965080
Ph+MeAc	0.000620076	0.994664	0.00363543	0.968716
rad38	0.000610338	0.995275	0.00357834	0.972294
PhCCH+CH3	0.000591060	0.995866	0.00346532	0.975759
rad39	0.000583988	0.996450	0.00342386	0.979183
rad51	0.000509939	0.996960	0.00298972	0.982173
rad30	0.000416221	0.997376	0.00244026	0.984613
rad35	0.000338039	0.997714	0.00198189	0.986595
rad71	0.000314327	0.998028	0.00184287	0.988438
rad46	0.000263035	0.998291	0.00154214	0.989980
rad59	0.000220600	0.998512	0.00129335	0.991273
rad67	0.000202073	0.998714	0.00118473	0.992458
PhCCCH3+H	0.000188216	0.998902	0.00110349	0.993562
rad19syn	0.000130479	0.999033	0.000764984	0.994326
PAH10+CH3	0.000114958	0.999148	0.000673988	0.995000
rad60syn	0.000106817	0.999254	0.000626255	0.995627
rad73	0.000106634	0.999361	0.000625182	0.996252
rad52	9.39532e-05	0.999455	0.000550837	0.996803
rad60anti	7.89348e-05	0.999534	0.000462786	0.997266
PAH1+H	7.37743e-05	0.999608	0.000432531	0.997698
rad58	6.84496e-05	0.999676	0.000401313	0.998099
rad72	5.32768e-05	0.999729	0.000312356	0.998412
PhcycC3H3_A+H	3.80214e-05	0.999767	0.000222915	0.998635
rad70	2.72090e-05	0.999795	0.000159524	0.998794
rad23	2.49150e-05	0.999820	0.000146074	0.998940
PAH8+H	2.34004e-05	0.999843	0.000137194	0.999077
rad20	2.23900e-05	0.999865	0.000131270	0.999209
rad9	1.64530e-05	0.999882	9.64619e-05	0.999305
rad37	1.30699e-05	0.999895	7.66272e-05	0.999382
rad45	1.21830e-05	0.999907	7.14277e-05	0.999453
rad65	1.16329e-05	0.999919	6.82023e-05	0.999521
rad34	1.12279e-05	0.999930	6.58280e-05	0.999587
rad6	1.11511e-05	0.999941	6.53775e-05	0.999653
rad54	9.68322e-06	0.999951	5.67717e-05	0.999709
rad21	9.22112e-06	0.999960	5.40624e-05	0.999763
rad22	6.37887e-06	0.999966	3.73986e-05	0.999801
rad11	5.74502e-06	0.999972	3.36824e-05	0.999835
rad68syn	3.01355e-06	0.999975	1.76681e-05	0.999852
rad18	2.32376e-06	0.999977	1.36240e-05	0.999866
rad36	2.21919e-06	0.999980	1.30109e-05	0.999879
rad64	2.10150e-06	0.999982	1.23209e-05	0.999891
rad8	2.03289e-06	0.999984	1.19186e-05	0.999903
rad68anti	1.91932e-06	0.999986	1.12527e-05	0.999914
rad40syn	1.86230e-06	0.999988	1.09184e-05	0.999925
rad56	1.70869e-06	0.999989	1.00179e-05	0.999935
rad15	1.43890e-06	0.999991	8.43611e-06	0.999944
rad40anti	1.39932e-06	0.999992	8.20405e-06	0.999952
rad55	1.10069e-06	0.999993	6.45320e-06	0.999958
rad47	1.06566e-06	0.999994	6.24782e-06	0.999965
rad53	1.06275e-06	0.999995	6.23080e-06	0.999971
rad62	9.79077e-07	0.999996	5.74022e-06	0.999977
rad61	8.79565e-07	0.999997	5.15680e-06	0.999982
rad12	6.25767e-07	0.999998	3.66880e-06	0.999985
rad24	5.26435e-07	0.999998	3.08643e-06	0.999989
rad7	4.76008e-07	0.999999	2.79078e-06	0.999991
rad28	4.61576e-07	0.999999	2.70617e-06	0.999994
rad43	3.71745e-07	1.000000	2.17950e-06	0.999996
rad42	2.03487e-07	1.000000	1.19302e-06	0.999997
rad26	1.55528e-07	1.000000	9.11843e-07	0.999998
rad41	8.04744e-08	1.000000	4.71813e-07	0.999999
rad13	7.38876e-08	1.000000	4.33195e-07	0.999999
rad10	6.69875e-08	1.000000	3.92741e-07	1.000000
rad25	4.84920e-08	1.000000	2.84303e-07	1.000000
rad5	2.06404e-08	1.000000	1.21012e-07	1.000000
rad33	7.80982e-09	1.000000	4.57881e-08	1.000000
rad2	5.73702e-09	1.000000	3.36355e-08	1.000000
rad1	2.87898e-09	1.000000	1.68791e-08	1.000000
rad14	1.00395e-09	1.000000	5.88607e-09	1.000000
rad27	4.96179e-10	1.000000	2.90904e-09	1.000000

rad3	2.18296e-10	1.00000	1.27985e-09	1.00000
rad4	1.24023e-10	1.00000	7.27136e-10	1.00000

1000000.00 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28659e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.815911	0.815911	0.00000	0.00000
PhCH2CCH+H	0.109572	0.925483	0.595212	0.595212
PhCHCCH2+H	0.0267281	0.952211	0.145191	0.740403
Ph+Allene	0.0192925	0.971504	0.104800	0.845203
Indene+H	0.0157151	0.987219	0.0853671	0.930570
PAH3+H	0.00329460	0.990513	0.0178968	0.948467
PAH7+H	0.00122712	0.991740	0.00666589	0.955133
PAH9+H	0.000844400	0.992585	0.00458692	0.959720
PhCCH+CH3	0.000725438	0.993310	0.00394070	0.963660
rad19anti	0.000699210	0.994009	0.00379822	0.967459
rad50	0.000677823	0.994687	0.00368204	0.971141
Ph+MeAc	0.000663740	0.995351	0.00360555	0.974746
rad39	0.000556776	0.995908	0.00302450	0.977771
rad38	0.000550014	0.996458	0.00298777	0.980758
rad51	0.000481687	0.996940	0.00261660	0.983375
rad30	0.000396194	0.997336	0.00215219	0.985527
rad35	0.000339757	0.997675	0.00184561	0.987373
rad71	0.000294347	0.997970	0.00159894	0.988972
rad46	0.000240611	0.998210	0.00130704	0.990279
rad59	0.000232106	0.998443	0.00126084	0.991540
rad67	0.000214505	0.998657	0.00116523	0.992705
PhCCCH3+H	0.000213577	0.998871	0.00116018	0.993865
rad19syn	0.000164468	0.999035	0.000893415	0.994759
PAH10+CH3	0.000123133	0.999158	0.000668880	0.995427
rad60syn	0.000108417	0.999267	0.000588938	0.996016
rad73	0.000100908	0.999368	0.000548147	0.996565
rad52	8.83102e-05	0.999456	0.000479716	0.997044
PAH1+H	8.21571e-05	0.999538	0.000446291	0.997491
rad60anti	8.05665e-05	0.999619	0.000437650	0.997928
rad58	7.79782e-05	0.999697	0.000423590	0.998352
rad72	4.85604e-05	0.999745	0.000263788	0.998616
PhcycC3H3_A+H	4.08375e-05	0.999786	0.000221836	0.998837
rad70	3.14990e-05	0.999817	0.000171108	0.999008
PAH8+H	3.11012e-05	0.999849	0.000168947	0.999177
rad20	1.70752e-05	0.999866	9.27554e-05	0.999270
rad23	1.61860e-05	0.999882	8.79252e-05	0.999358
rad34	1.33327e-05	0.999895	7.24256e-05	0.999431
rad37	1.28538e-05	0.999908	6.98240e-05	0.999500
rad9	1.13768e-05	0.999919	6.18006e-05	0.999562
rad65	1.10748e-05	0.999930	6.01603e-05	0.999622
rad54	1.01273e-05	0.999941	5.50131e-05	0.999677
rad45	8.38676e-06	0.999949	4.55583e-05	0.999723
rad21	6.79844e-06	0.999956	3.69302e-05	0.999760
rad6	6.69554e-06	0.999962	3.63713e-05	0.999796
rad11	4.36827e-06	0.999967	2.37292e-05	0.999820
rad22	4.20073e-06	0.999971	2.28190e-05	0.999843
rad68syn	3.82063e-06	0.999975	2.07543e-05	0.999863
rad68anti	2.43214e-06	0.999977	1.32118e-05	0.999877
rad40syn	2.42446e-06	0.999980	1.31701e-05	0.999890
rad64	2.35457e-06	0.999982	1.27904e-05	0.999903
rad56	2.00889e-06	0.999984	1.09126e-05	0.999914
rad8	1.87604e-06	0.999986	1.01909e-05	0.999924
rad40anti	1.83583e-06	0.999988	9.97252e-06	0.999934
rad18	1.58606e-06	0.999989	8.61572e-06	0.999942
rad36	1.52930e-06	0.999991	8.30739e-06	0.999951
rad53	1.21714e-06	0.999992	6.61171e-06	0.999957
rad55	1.17351e-06	0.999993	6.37469e-06	0.999964
rad62	1.12295e-06	0.999994	6.10006e-06	0.999970
rad15	1.01934e-06	0.999995	5.53721e-06	0.999975
rad61	1.00486e-06	0.999996	5.45855e-06	0.999981
rad47	9.69761e-07	0.999997	5.26790e-06	0.999986
rad12	4.98917e-07	0.999998	2.71020e-06	0.999989
rad43	4.20527e-07	0.999998	2.28437e-06	0.999991
rad24	4.01091e-07	0.999999	2.17879e-06	0.999993
rad28	3.24425e-07	0.999999	1.76233e-06	0.999995
rad7	3.09313e-07	0.999999	1.68024e-06	0.999997
rad42	2.40331e-07	1.000000	1.30551e-06	0.999998
rad26	1.11377e-07	1.000000	6.05019e-07	0.999999
rad41	9.60074e-08	1.000000	5.21528e-07	0.999999

rad10	5.05771e-08	1.000000	2.74743e-07	0.999999
rad13	5.05633e-08	1.000000	2.74668e-07	1.000000
rad25	4.09359e-08	1.000000	2.22370e-07	1.000000
rad5	1.99616e-08	1.000000	1.08434e-07	1.000000
rad33	5.65692e-09	1.000000	3.07293e-08	1.000000
rad2	4.50235e-09	1.000000	2.44575e-08	1.000000
rad1	2.28143e-09	1.000000	1.23931e-08	1.000000
rad14	9.06383e-10	1.000000	4.92362e-09	1.000000
rad27	4.26001e-10	1.000000	2.31411e-09	1.000000
rad3	1.53615e-10	1.000000	8.34462e-10	1.000000
rad4	8.69943e-11	1.000000	4.72567e-10	1.000000

100000.000 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.995873	0.995873	0.995873	0.995873
rad21	0.00361593	0.999489	0.00361593	0.999489
rad18	0.000507242	0.999996	0.000507242	0.999996
rad22	3.97871e-06	1.000000	3.97871e-06	1.000000
Indene+H	1.18588e-07	1.000000	1.18588e-07	1.000000
rad24	8.15269e-08	1.000000	8.15269e-08	1.000000
rad45	6.09627e-08	1.000000	6.09627e-08	1.000000
rad36	4.59559e-09	1.000000	4.59559e-09	1.000000
Benzyl+C2H2	8.61794e-10	1.000000	0.000000	1.000000
rad11	4.08204e-10	1.000000	4.08204e-10	1.000000
rad23	5.60670e-12	1.000000	5.60670e-12	1.000000
rad6	4.54130e-16	1.000000	4.54130e-16	1.000000
rad30	4.03941e-21	1.000000	4.03941e-21	1.000000
rad15	8.29500e-24	1.000000	8.29500e-24	1.000000
rad13	1.85224e-24	1.000000	1.85224e-24	1.000000
rad7	3.54802e-25	1.000000	3.54802e-25	1.000000
rad38	5.45902e-27	1.000000	5.45902e-27	1.000000
rad25	4.99795e-27	1.000000	4.99795e-27	1.000000
rad33	2.80374e-27	1.000000	2.80374e-27	1.000000
rad35	4.83834e-30	1.000000	4.83834e-30	1.000000
PAH9+H	2.20606e-30	1.000000	2.20606e-30	1.000000
rad8	9.24637e-32	1.000000	9.24637e-32	1.000000
PhCHCCH2+H	5.64226e-32	1.000000	5.64226e-32	1.000000
rad3	6.73258e-33	1.000000	6.73258e-33	1.000000
rad4	3.91322e-33	1.000000	3.91322e-33	1.000000
rad46	8.15424e-34	1.000000	8.15424e-34	1.000000
rad9	1.90893e-34	1.000000	1.90893e-34	1.000000
rad60syn	1.10405e-35	1.000000	1.10405e-35	1.000000
rad28	4.74516e-36	1.000000	4.74516e-36	1.000000
rad60anti	5.06896e-37	1.000000	5.06896e-37	1.000000
Ph+Allene	1.14865e-37	1.000000	1.14865e-37	1.000000
rad2	5.07743e-40	1.000000	5.07743e-40	1.000000
PAH7+H	2.32944e-40	1.000000	2.32944e-40	1.000000
rad1	4.72280e-41	1.000000	4.72280e-41	1.000000
PhCH2CCH+H	8.69865e-42	1.000000	8.69865e-42	1.000000
rad31	7.03745e-42	1.000000	7.03745e-42	1.000000
PAH3+H	4.61333e-44	1.000000	4.61333e-44	1.000000
rad59	2.26742e-44	1.000000	2.26742e-44	1.000000
rad26	2.11625e-44	1.000000	2.11625e-44	1.000000
PhCCH+CH3	1.47215e-45	1.000000	1.47215e-45	1.000000
rad14	1.04994e-45	1.000000	1.04994e-45	1.000000
rad10	1.81687e-47	1.000000	1.81687e-47	1.000000
rad39	3.52554e-48	1.000000	3.52554e-48	1.000000
rad50	1.05252e-48	1.000000	1.05252e-48	1.000000
rad27	1.66367e-51	1.000000	1.66367e-51	1.000000
Ph+MeAc	8.54770e-52	1.000000	8.54770e-52	1.000000
PhCCH3+H	3.14717e-53	1.000000	3.14717e-53	1.000000
rad12	6.81104e-54	1.000000	6.81104e-54	1.000000
rad37	1.48946e-55	1.000000	1.48946e-55	1.000000
rad52	6.86665e-57	1.000000	6.86665e-57	1.000000
rad51	1.45366e-61	1.000000	1.45366e-61	1.000000
rad58	6.87835e-63	1.000000	6.87835e-63	1.000000
rad19syn	3.85313e-63	1.000000	3.85313e-63	1.000000
rad5	3.98764e-64	1.000000	3.98764e-64	1.000000
rad54	3.37237e-64	1.000000	3.37237e-64	1.000000
rad70	2.72739e-65	1.000000	2.72739e-65	1.000000
PAH10+CH3	1.22227e-66	1.000000	1.22227e-66	1.000000
rad65	4.75789e-68	1.000000	4.75789e-68	1.000000
rad47	9.41462e-69	1.000000	9.41462e-69	1.000000
rad55	2.95782e-70	1.000000	2.95782e-70	1.000000

rad34	2.11249e-70	1.00000	2.11249e-70	1.00000
PhcycC3H3_A+H	1.06658e-71	1.00000	1.06658e-71	1.00000
rad62	3.01439e-72	1.00000	3.01439e-72	1.00000
PAH1+H	1.01615e-73	1.00000	1.01615e-73	1.00000
rad43	2.87632e-75	1.00000	2.87632e-75	1.00000
rad42	5.06864e-82	1.00000	5.06864e-82	1.00000
rad41	3.83281e-86	1.00000	3.83281e-86	1.00000

100000.000 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.15918e-108 (1.00)	1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.991690	0.991690	0.991690	0.991690
rad21	0.00726776	0.998958	0.00726776	0.998958
rad18	0.00102448	0.999982	0.00102448	0.999982
rad22	1.62158e-05	0.999998	1.62158e-05	0.999998
Indene+H	4.85428e-07	0.999999	4.85428e-07	0.999999
rad45	3.75781e-07	0.999999	3.75781e-07	0.999999
rad24	2.00029e-07	1.000000	2.00029e-07	1.000000
rad36	2.62313e-08	1.000000	2.62313e-08	1.000000
Benzyl+C2H2	2.01219e-09	1.000000	0.000000	1.000000
rad11	1.69824e-09	1.000000	1.69824e-09	1.000000
rad23	5.73555e-11	1.000000	5.73555e-11	1.000000
rad6	3.87165e-15	1.000000	3.87165e-15	1.000000
rad30	1.93230e-20	1.000000	1.93230e-20	1.000000
rad15	4.03754e-23	1.000000	4.03754e-23	1.000000
rad13	3.23441e-23	1.000000	3.23441e-23	1.000000
rad7	6.22127e-24	1.000000	6.22127e-24	1.000000
rad38	8.15086e-26	1.000000	8.15086e-26	1.000000
rad33	4.94227e-26	1.000000	4.94227e-26	1.000000
rad25	4.83969e-26	1.000000	4.83969e-26	1.000000
rad35	1.04424e-28	1.000000	1.04424e-28	1.000000
PAH9+H	4.83387e-29	1.000000	4.83387e-29	1.000000
PhCHCCH2+H	5.60564e-31	1.000000	5.60564e-31	1.000000
rad3	2.51168e-31	1.000000	2.51168e-31	1.000000
rad8	2.34772e-31	1.000000	2.34772e-31	1.000000
rad4	1.40976e-31	1.000000	1.40976e-31	1.000000
rad46	1.11164e-32	1.000000	1.11164e-32	1.000000
rad9	1.90727e-33	1.000000	1.90727e-33	1.000000
rad60syn	5.68000e-35	1.000000	5.68000e-35	1.000000
rad28	5.29083e-35	1.000000	5.29083e-35	1.000000
rad60anti	2.61726e-36	1.000000	2.61726e-36	1.000000
Ph+Allene	1.15129e-36	1.000000	1.15129e-36	1.000000
rad2	3.88999e-38	1.000000	3.88999e-38	1.000000
rad1	3.26249e-39	1.000000	3.26249e-39	1.000000
PAH7+H	1.30483e-39	1.000000	1.30483e-39	1.000000
rad31	1.82995e-40	1.000000	1.82995e-40	1.000000
PhCH2CCH+H	3.55107e-41	1.000000	3.55107e-41	1.000000
PAH3+H	2.40605e-43	1.000000	2.40605e-43	1.000000
rad59	1.18259e-43	1.000000	1.18259e-43	1.000000
PhCCH+CH3	1.18198e-43	1.000000	1.18198e-43	1.000000
rad26	1.12568e-43	1.000000	1.12568e-43	1.000000
rad14	8.26423e-44	1.000000	8.26423e-44	1.000000
rad10	2.86466e-45	1.000000	2.86466e-45	1.000000
rad39	4.10476e-47	1.000000	4.10476e-47	1.000000
rad50	1.23231e-47	1.000000	1.23231e-47	1.000000
rad27	2.67223e-49	1.000000	2.67223e-49	1.000000
Ph+MeAc	6.97167e-50	1.000000	6.97167e-50	1.000000
PhCCCH3+H	5.18349e-51	1.000000	5.18349e-51	1.000000
rad12	7.23702e-53	1.000000	7.23702e-53	1.000000
rad37	1.57541e-54	1.000000	1.57541e-54	1.000000
rad52	7.43254e-56	1.000000	7.43254e-56	1.000000
rad51	1.47646e-60	1.000000	1.47646e-60	1.000000
rad19syn	1.49223e-61	1.000000	1.49223e-61	1.000000
rad5	6.48007e-62	1.000000	6.48007e-62	1.000000
rad58	3.39344e-62	1.000000	3.39344e-62	1.000000
rad54	1.03168e-62	1.000000	1.03168e-62	1.000000
rad70	4.58442e-64	1.000000	4.58442e-64	1.000000
PAH10+CH3	1.07717e-65	1.000000	1.07717e-65	1.000000
rad65	9.27085e-67	1.000000	9.27085e-67	1.000000
rad47	8.38884e-68	1.000000	8.38884e-68	1.000000
rad55	7.92927e-69	1.000000	7.92927e-69	1.000000
rad34	3.27580e-69	1.000000	3.27580e-69	1.000000
rad62	4.12705e-70	1.000000	4.12705e-70	1.000000
PhcycC3H3_A+H	3.79894e-70	1.000000	3.79894e-70	1.000000
rad43	8.14080e-73	1.000000	8.14080e-73	1.000000

PAH1+H	7.50580e-73	1.000000	7.50580e-73	1.000000
rad42	5.64385e-80	1.000000	5.64385e-80	1.000000
rad41	8.50073e-84	1.000000	8.50073e-84	1.000000

100000.000 Pa, 40.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.02415e-84 (1.00)		1.02415e-84 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

rad20	0.987614	0.987614	0.987614	0.987614
rad21	0.0108147	0.998429	0.0108147	0.998429
rad18	0.00153306	0.999962	0.00153306	0.999962
rad22	3.62453e-05	0.999998	3.62453e-05	0.999998
Indene+H	1.09070e-06	0.999999	1.09070e-06	0.999999
rad45	9.96836e-07	1.00000	9.96836e-07	1.00000
rad24	2.92665e-07	1.00000	2.92665e-07	1.00000
rad36	6.74325e-08	1.00000	6.74325e-08	1.00000
rad11	3.95054e-09	1.00000	3.95054e-09	1.00000
Benzyl+C2H2	3.90137e-09	1.00000	0.00000	1.00000
rad23	2.15758e-10	1.00000	2.15758e-10	1.00000
rad6	1.38381e-14	1.00000	1.38381e-14	1.00000
rad30	5.99959e-20	1.00000	5.99959e-20	1.00000
rad13	1.77220e-22	1.00000	1.77220e-22	1.00000
rad15	1.30637e-22	1.00000	1.30637e-22	1.00000
rad7	3.43145e-23	1.00000	3.43145e-23	1.00000
rad38	4.45217e-25	1.00000	4.45217e-25	1.00000
rad33	2.76122e-25	1.00000	2.76122e-25	1.00000
rad25	2.29003e-25	1.00000	2.29003e-25	1.00000
rad35	7.00148e-28	1.00000	7.00148e-28	1.00000
PAH9+H	3.32837e-28	1.00000	3.32837e-28	1.00000
PhCHCCH2+H	2.88154e-30	1.00000	2.88154e-30	1.00000
rad3	2.25834e-30	1.00000	2.25834e-30	1.00000
rad4	1.24617e-30	1.00000	1.24617e-30	1.00000
rad8	6.10223e-31	1.00000	6.10223e-31	1.00000
rad46	6.50099e-32	1.00000	6.50099e-32	1.00000
rad9	1.00980e-32	1.00000	1.00980e-32	1.00000
rad28	3.90354e-34	1.00000	3.90354e-34	1.00000
rad60syn	2.15864e-34	1.00000	2.15864e-34	1.00000
rad60anti	1.01026e-35	1.00000	1.01026e-35	1.00000
Ph+Allene	6.40399e-36	1.00000	6.40399e-36	1.00000
rad2	5.52835e-37	1.00000	5.52835e-37	1.00000
rad1	4.41671e-38	1.00000	4.41671e-38	1.00000
PAH7+H	5.23903e-39	1.00000	5.23903e-39	1.00000
rad31	1.39044e-39	1.00000	1.39044e-39	1.00000
PhCH2CCH+H	1.55337e-40	1.00000	1.55337e-40	1.00000
PhCCH+CH3	1.93448e-42	1.00000	1.93448e-42	1.00000
rad14	1.30281e-42	1.00000	1.30281e-42	1.00000
PAH3+H	1.01089e-42	1.00000	1.01089e-42	1.00000
rad59	4.96145e-43	1.00000	4.96145e-43	1.00000
rad26	4.56036e-43	1.00000	4.56036e-43	1.00000
rad10	6.32521e-44	1.00000	6.32521e-44	1.00000
rad39	2.41016e-46	1.00000	2.41016e-46	1.00000
rad50	8.22887e-47	1.00000	8.22887e-47	1.00000
rad27	6.22467e-48	1.00000	6.22467e-48	1.00000
Ph+MeAc	1.24868e-48	1.00000	1.24868e-48	1.00000
PhCCH3+H	1.28988e-49	1.00000	1.28988e-49	1.00000
rad12	4.32758e-52	1.00000	4.32758e-52	1.00000
rad37	9.42923e-54	1.00000	9.42923e-54	1.00000
rad52	5.26293e-55	1.00000	5.26293e-55	1.00000
rad51	1.08480e-59	1.00000	1.08480e-59	1.00000
rad19syn	2.02884e-60	1.00000	2.02884e-60	1.00000
rad5	1.82493e-60	1.00000	1.82493e-60	1.00000
rad58	1.63830e-61	1.00000	1.63830e-61	1.00000
rad54	1.20055e-61	1.00000	1.20055e-61	1.00000
rad70	4.23394e-63	1.00000	4.23394e-63	1.00000
PAH10+CH3	6.48445e-65	1.00000	6.48445e-65	1.00000
rad65	9.50501e-66	1.00000	9.50501e-66	1.00000
rad47	6.40599e-67	1.00000	6.40599e-67	1.00000
rad55	9.00170e-68	1.00000	9.00170e-68	1.00000
rad34	3.01273e-68	1.00000	3.01273e-68	1.00000
rad62	1.17285e-68	1.00000	1.17285e-68	1.00000
PhcycC3H3_A+H	5.35086e-69	1.00000	5.35086e-69	1.00000
rad43	3.46096e-71	1.00000	3.46096e-71	1.00000
PAH1+H	4.48499e-72	1.00000	4.48499e-72	1.00000
rad42	1.56053e-78	1.00000	1.56053e-78	1.00000
rad41	3.49800e-82	1.00000	3.49800e-82	1.00000

100000.000 Pa, 50.0000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 2.31816e-70 (1.00) 2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.983551	0.983551	0.983551	0.983551
rad21	0.0143356	0.997887	0.0143356	0.997887
rad18	0.00204484	0.999931	0.00204484	0.999931
rad22	6.43323e-05	0.999996	6.43323e-05	0.999996
Indene+H	1.94743e-06	0.999998	1.94743e-06	0.999998
rad45	1.94618e-06	1.000000	1.94618e-06	1.000000
rad24	3.60130e-07	1.000000	3.60130e-07	1.000000
rad36	1.29359e-07	1.000000	1.29359e-07	1.000000
rad11	7.39635e-09	1.000000	7.39635e-09	1.000000
Benzyl+C2H2	7.06674e-09	1.000000	0.000000	1.000000
rad23	5.51392e-10	1.000000	5.51392e-10	1.000000
rad6	3.58234e-14	1.000000	3.58234e-14	1.000000
rad30	1.69664e-19	1.000000	1.69664e-19	1.000000
rad13	6.33070e-22	1.000000	6.33070e-22	1.000000
rad15	3.92683e-22	1.000000	3.92683e-22	1.000000
rad7	1.23660e-22	1.000000	1.23660e-22	1.000000
rad38	1.78203e-24	1.000000	1.78203e-24	1.000000
rad33	1.01398e-24	1.000000	1.01398e-24	1.000000
rad25	8.91232e-25	1.000000	8.91232e-25	1.000000
rad35	3.09082e-27	1.000000	3.09082e-27	1.000000
PAH9+H	1.53102e-27	1.000000	1.53102e-27	1.000000
PhCHCCH2+H	1.27587e-29	1.000000	1.27587e-29	1.000000
rad3	1.22065e-29	1.000000	1.22065e-29	1.000000
rad4	6.66489e-30	1.000000	6.66489e-30	1.000000
rad8	1.83245e-30	1.000000	1.83245e-30	1.000000
rad46	3.10046e-31	1.000000	3.10046e-31	1.000000
rad9	4.69195e-32	1.000000	4.69195e-32	1.000000
rad28	2.29027e-33	1.000000	2.29027e-33	1.000000
rad60syn	8.28507e-34	1.000000	8.28507e-34	1.000000
rad60anti	3.97509e-35	1.000000	3.97509e-35	1.000000
Ph+Allene	3.24211e-35	1.000000	3.24211e-35	1.000000
rad2	4.35195e-36	1.000000	4.35195e-36	1.000000
rad1	3.37634e-37	1.000000	3.37634e-37	1.000000
PAH7+H	2.17948e-38	1.000000	2.17948e-38	1.000000
rad31	6.84844e-39	1.000000	6.84844e-39	1.000000
PhCH2CCH+H	7.59385e-40	1.000000	7.59385e-40	1.000000
PhCCH+CH3	1.89204e-41	1.000000	1.89204e-41	1.000000
rad14	1.20543e-41	1.000000	1.20543e-41	1.000000
PAH3+H	4.58609e-42	1.000000	4.58609e-42	1.000000
rad59	2.24507e-42	1.000000	2.24507e-42	1.000000
rad26	1.98922e-42	1.000000	1.98922e-42	1.000000
rad10	7.03636e-43	1.000000	7.03636e-43	1.000000
rad39	1.26563e-45	1.000000	1.26563e-45	1.000000
rad50	5.41092e-46	1.000000	5.41092e-46	1.000000
rad27	7.51267e-47	1.000000	7.51267e-47	1.000000
Ph+MeAc	1.42095e-47	1.000000	1.42095e-47	1.000000
PhCCCH3+H	1.72207e-48	1.000000	1.72207e-48	1.000000
rad12	2.47865e-51	1.000000	2.47865e-51	1.000000
rad37	5.42508e-53	1.000000	5.42508e-53	1.000000
rad52	4.06193e-54	1.000000	4.06193e-54	1.000000
rad51	9.36257e-59	1.000000	9.36257e-59	1.000000
rad5	3.07061e-59	1.000000	3.07061e-59	1.000000
rad19syn	2.22598e-59	1.000000	2.22598e-59	1.000000
rad54	1.19344e-60	1.000000	1.19344e-60	1.000000
rad58	9.82079e-61	1.000000	9.82079e-61	1.000000
rad70	3.93056e-62	1.000000	3.93056e-62	1.000000
PAH10+CH3	4.24871e-64	1.000000	4.24871e-64	1.000000
rad65	9.88272e-65	1.000000	9.88272e-65	1.000000
rad47	6.50023e-66	1.000000	6.50023e-66	1.000000
rad55	9.37548e-67	1.000000	9.37548e-67	1.000000
rad34	2.92944e-67	1.000000	2.92944e-67	1.000000
rad62	2.26075e-67	1.000000	2.26075e-67	1.000000
PhcycC3H3_A+H	6.61487e-68	1.000000	6.61487e-68	1.000000
rad43	8.76989e-70	1.000000	8.76989e-70	1.000000
PAH1+H	3.24124e-71	1.000000	3.24124e-71	1.000000
rad42	3.31510e-77	1.000000	3.31510e-77	1.000000
rad41	9.96154e-81	1.000000	9.96154e-81	1.000000

100000.000 Pa, 60.0000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 8.44107e-61 (1.00) 8.44107e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.979448	0.979448	0.979448	0.979448
rad21	0.0178770	0.997325	0.0178770	0.997325
rad18	0.00256709	0.999892	0.00256709	0.999892
rad22	0.000101138	0.999993	0.000101138	0.999993
rad45	3.25736e-06	0.999996	3.25736e-06	0.999996
Indene+H	3.08174e-06	1.000000	3.08174e-06	1.000000
rad24	4.09252e-07	1.000000	4.09252e-07	1.000000
rad36	2.14045e-07	1.000000	2.14045e-07	1.000000
rad11	1.23821e-08	1.000000	1.23821e-08	1.000000
Benzyl+C2H2	1.22077e-08	1.000000	0.000000	1.000000
rad23	1.15131e-09	1.000000	1.15131e-09	1.000000
rad6	7.87356e-14	1.000000	7.87356e-14	1.000000
rad30	4.82836e-19	1.000000	4.82836e-19	1.000000
rad13	1.82601e-21	1.000000	1.82601e-21	1.000000
rad15	1.20860e-21	1.000000	1.20860e-21	1.000000
rad7	3.60568e-22	1.000000	3.60568e-22	1.000000
rad38	6.33069e-24	1.000000	6.33069e-24	1.000000
rad25	3.31528e-24	1.000000	3.31528e-24	1.000000
rad33	3.02857e-24	1.000000	3.02857e-24	1.000000
rad35	1.11390e-26	1.000000	1.11390e-26	1.000000
PAH9+H	5.85020e-27	1.000000	5.85020e-27	1.000000
PhCHCCH2+H	5.60204e-29	1.000000	5.60204e-29	1.000000
rad3	5.18521e-29	1.000000	5.18521e-29	1.000000
rad4	2.81057e-29	1.000000	2.81057e-29	1.000000
rad8	6.45480e-30	1.000000	6.45480e-30	1.000000
rad46	1.43177e-30	1.000000	1.43177e-30	1.000000
rad9	2.19172e-31	1.000000	2.19172e-31	1.000000
rad28	1.19470e-32	1.000000	1.19470e-32	1.000000
rad60syn	3.46407e-33	1.000000	3.46407e-33	1.000000
rad60anti	1.71517e-34	1.000000	1.71517e-34	1.000000
Ph+Allene	1.69431e-34	1.000000	1.69431e-34	1.000000
rad2	2.62329e-35	1.000000	2.62329e-35	1.000000
rad1	1.99535e-36	1.000000	1.99535e-36	1.000000
PAH7+H	1.01218e-37	1.000000	1.01218e-37	1.000000
rad31	2.75943e-38	1.000000	2.75943e-38	1.000000
PhCH2CCH+H	4.18688e-39	1.000000	4.18688e-39	1.000000
PhCCH+CH3	1.51046e-40	1.000000	1.51046e-40	1.000000
rad14	8.97060e-41	1.000000	8.97060e-41	1.000000
PAH3+H	2.37636e-41	1.000000	2.37636e-41	1.000000
rad59	1.15933e-41	1.000000	1.15933e-41	1.000000
rad26	9.94162e-42	1.000000	9.94162e-42	1.000000
rad10	5.76607e-42	1.000000	5.76607e-42	1.000000
rad39	6.83896e-45	1.000000	6.83896e-45	1.000000
rad50	3.96372e-45	1.000000	3.96372e-45	1.000000
rad27	6.83427e-46	1.000000	6.83427e-46	1.000000
Ph+MeAc	1.38078e-46	1.000000	1.38078e-46	1.000000
PhCCH3+H	1.77941e-47	1.000000	1.77941e-47	1.000000
rad12	1.52936e-50	1.000000	1.52936e-50	1.000000
rad37	3.37120e-52	1.000000	3.37120e-52	1.000000
rad52	3.78529e-53	1.000000	3.78529e-53	1.000000
rad51	1.03618e-57	1.000000	1.03618e-57	1.000000
rad5	4.32050e-58	1.000000	4.32050e-58	1.000000
rad19syn	2.41402e-58	1.000000	2.41402e-58	1.000000
rad54	1.22045e-59	1.000000	1.22045e-59	1.000000
rad58	7.40060e-60	1.000000	7.40060e-60	1.000000
rad70	4.11026e-61	1.000000	4.11026e-61	1.000000
PAH10+CH3	3.26902e-63	1.000000	3.26902e-63	1.000000
rad65	1.22062e-63	1.000000	1.22062e-63	1.000000
rad47	9.33637e-65	1.000000	9.33637e-65	1.000000
rad55	1.05260e-65	1.000000	1.05260e-65	1.000000
rad62	3.98142e-66	1.000000	3.98142e-66	1.000000
rad34	3.31574e-66	1.000000	3.31574e-66	1.000000
PhcycC3H3_A+H	8.55262e-67	1.000000	8.55262e-67	1.000000
rad43	1.89469e-68	1.000000	1.89469e-68	1.000000
PAH1+H	2.94350e-70	1.000000	2.94350e-70	1.000000
rad42	7.01020e-76	1.000000	7.01020e-76	1.000000
rad41	2.68534e-79	1.000000	2.68534e-79	1.000000

100000.000 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.61998e-54 (1.00)	5.61998e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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rad20	0.975261	0.975261	0.975261	0.975261
rad21	0.0214749	0.996736	0.0214749	0.996736
rad18	0.00310580	0.999842	0.00310580	0.999842
rad22	0.000147687	0.999989	0.000147687	0.999989
rad45	4.98287e-06	0.999994	4.98287e-06	0.999994
Indene+H	4.53268e-06	0.999999	4.53268e-06	0.999999
rad24	4.45844e-07	0.999999	4.45844e-07	0.999999
rad36	3.24774e-07	1.000000	3.24774e-07	1.000000
Benzyl+C2H2	2.03744e-08	1.000000	0.000000	1.000000
rad11	1.94075e-08	1.000000	1.94075e-08	1.000000
rad23	2.12917e-09	1.000000	2.12917e-09	1.000000
rad6	1.57616e-13	1.000000	1.57616e-13	1.000000
rad30	1.47269e-18	1.000000	1.47269e-18	1.000000
rad13	4.67973e-21	1.000000	4.67973e-21	1.000000
rad15	4.07767e-21	1.000000	4.07767e-21	1.000000
rad7	9.36276e-22	1.000000	9.36276e-22	1.000000
rad38	2.16940e-23	1.000000	2.16940e-23	1.000000
rad25	1.28385e-23	1.000000	1.28385e-23	1.000000
rad33	8.09858e-24	1.000000	8.09858e-24	1.000000
rad35	3.59665e-26	1.000000	3.59665e-26	1.000000
PAH9+H	2.04039e-26	1.000000	2.04039e-26	1.000000
PhCHCCH2+H	2.65879e-28	1.000000	2.65879e-28	1.000000
rad3	1.95797e-28	1.000000	1.95797e-28	1.000000
rad4	1.05562e-28	1.000000	1.05562e-28	1.000000
rad8	2.75599e-29	1.000000	2.75599e-29	1.000000
rad46	7.02060e-30	1.000000	7.02060e-30	1.000000
rad9	1.11950e-30	1.000000	1.11950e-30	1.000000
rad28	6.10180e-32	1.000000	6.10180e-32	1.000000
rad60syn	1.67443e-32	1.000000	1.67443e-32	1.000000
Ph+Allene	9.88582e-34	1.000000	9.88582e-34	1.000000
rad60anti	8.59741e-34	1.000000	8.59741e-34	1.000000
rad2	1.41307e-34	1.000000	1.41307e-34	1.000000
rad1	1.05974e-35	1.000000	1.05974e-35	1.000000
PAH7+H	5.53368e-37	1.000000	5.53368e-37	1.000000
rad31	1.01373e-37	1.000000	1.01373e-37	1.000000
PhCH2CCH+H	2.70451e-38	1.000000	2.70451e-38	1.000000
PhCCH+CH3	1.15458e-39	1.000000	1.15458e-39	1.000000
rad14	6.29944e-40	1.000000	6.29944e-40	1.000000
PAH3+H	1.47308e-40	1.000000	1.47308e-40	1.000000
rad59	7.15714e-41	1.000000	7.15714e-41	1.000000
rad26	5.95805e-41	1.000000	5.95805e-41	1.000000
rad10	4.18642e-41	1.000000	4.18642e-41	1.000000
rad39	4.13206e-44	1.000000	4.13206e-44	1.000000
rad50	3.48021e-44	1.000000	3.48021e-44	1.000000
rad27	5.64334e-45	1.000000	5.64334e-45	1.000000
Ph+MeAc	1.33335e-45	1.000000	1.33335e-45	1.000000
PhCCH3+H	1.70997e-46	1.000000	1.70997e-46	1.000000
rad12	1.08973e-49	1.000000	1.08973e-49	1.000000
rad37	2.42408e-51	1.000000	2.42408e-51	1.000000
rad52	4.53422e-52	1.000000	4.53422e-52	1.000000
rad51	1.55369e-56	1.000000	1.55369e-56	1.000000
rad5	6.00113e-57	1.000000	6.00113e-57	1.000000
rad19syn	2.87134e-57	1.000000	2.87134e-57	1.000000
rad54	1.40899e-58	1.000000	1.40899e-58	1.000000
rad58	7.13373e-59	1.000000	7.13373e-59	1.000000
rad70	5.13198e-60	1.000000	5.13198e-60	1.000000
PAH10+CH3	3.08434e-62	1.000000	3.08434e-62	1.000000
rad65	1.98685e-62	1.000000	1.98685e-62	1.000000
rad47	1.97693e-63	1.000000	1.97693e-63	1.000000
rad55	1.37695e-64	1.000000	1.37695e-64	1.000000
rad62	7.38143e-65	1.000000	7.38143e-65	1.000000
rad34	4.58085e-65	1.000000	4.58085e-65	1.000000
PhcycC3H3_A+H	1.26093e-65	1.000000	1.26093e-65	1.000000
rad43	4.13028e-67	1.000000	4.13028e-67	1.000000
PAH1+H	3.43575e-69	1.000000	3.43575e-69	1.000000
rad42	1.66038e-74	1.000000	1.66038e-74	1.000000
rad41	7.88822e-78	1.000000	7.88822e-78	1.000000

100000.000 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.28864e-49 (1.00)	7.28864e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.970951	0.970951	0.970951	0.970951
rad21	0.0251626	0.996114	0.0251626	0.996114
rad18	0.00366690	0.999781	0.00366690	0.999781
rad22	0.000205428	0.999986	0.000205428	0.999986

rad45	7.19962e-06	0.999993	7.19962e-06	0.999993
Indene+H	6.35517e-06	0.999999	6.35517e-06	0.999999
rad24	4.74125e-07	1.000000	4.74125e-07	1.000000
rad36	4.66399e-07	1.000000	4.66399e-07	1.000000
Benzyl+C2H2	3.31709e-08	1.000000	0.000000	1.000000
rad11	2.91973e-08	1.000000	2.91974e-08	1.000000
rad23	3.64022e-09	1.000000	3.64022e-09	1.000000
rad6	2.98660e-13	1.000000	2.98660e-13	1.000000
rad30	5.01168e-18	1.000000	5.01168e-18	1.000000
rad15	1.61559e-20	1.000000	1.61559e-20	1.000000
rad13	1.12406e-20	1.000000	1.12406e-20	1.000000
rad7	2.28479e-21	1.000000	2.28479e-21	1.000000
rad38	7.42629e-23	1.000000	7.42629e-23	1.000000
rad25	5.52980e-23	1.000000	5.52980e-23	1.000000
rad33	2.04667e-23	1.000000	2.04667e-23	1.000000
rad35	1.09336e-25	1.000000	1.09336e-25	1.000000
PAH9+H	6.80230e-26	1.000000	6.80230e-26	1.000000
PhCHCCH2+H	1.49262e-27	1.000000	1.49262e-27	1.000000
rad3	7.05914e-28	1.000000	7.05914e-28	1.000000
rad4	3.79040e-28	1.000000	3.79040e-28	1.000000
rad8	1.53938e-28	1.000000	1.53938e-28	1.000000
rad46	3.95036e-29	1.000000	3.95036e-29	1.000000
rad9	6.86095e-30	1.000000	6.86095e-30	1.000000
rad28	3.31496e-31	1.000000	3.31496e-31	1.000000
rad60syn	1.02135e-31	1.000000	1.02135e-31	1.000000
Ph+Allene	7.07267e-33	1.000000	7.07267e-33	1.000000
rad60anti	5.46092e-33	1.000000	5.46092e-33	1.000000
rad2	7.48868e-34	1.000000	7.48868e-34	1.000000
rad1	5.55795e-35	1.000000	5.55795e-35	1.000000
PAH7+H	3.86574e-36	1.000000	3.86574e-36	1.000000
rad31	3.61968e-37	1.000000	3.61968e-37	1.000000
PhCH2CCH+H	2.21503e-37	1.000000	2.21503e-37	1.000000
PhCCH+CH3	9.57297e-39	1.000000	9.57297e-39	1.000000
rad14	4.69502e-39	1.000000	4.69502e-39	1.000000
PAH3+H	1.18408e-39	1.000000	1.18408e-39	1.000000
rad59	5.72621e-40	1.000000	5.72621e-40	1.000000
rad26	4.62971e-40	1.000000	4.62971e-40	1.000000
rad10	3.04249e-40	1.000000	3.04249e-40	1.000000
rad50	3.99612e-43	1.000000	3.99612e-43	1.000000
rad39	3.07684e-43	1.000000	3.07684e-43	1.000000
rad27	4.82631e-44	1.000000	4.82631e-44	1.000000
Ph+MeAc	1.45798e-44	1.000000	1.45798e-44	1.000000
PhCCCH3+H	1.75939e-45	1.000000	1.75939e-45	1.000000
rad12	9.81823e-49	1.000000	9.81823e-49	1.000000
rad37	2.20784e-50	1.000000	2.20784e-50	1.000000
rad52	7.58826e-51	1.000000	7.58826e-51	1.000000
rad51	3.41487e-55	1.000000	3.41487e-55	1.000000
rad5	9.46495e-56	1.000000	9.46495e-56	1.000000
rad19syn	4.17305e-56	1.000000	4.17305e-56	1.000000
rad54	2.03157e-57	1.000000	2.03157e-57	1.000000
rad58	9.35885e-58	1.000000	9.35885e-58	1.000000
rad70	8.30581e-59	1.000000	8.30581e-59	1.000000
rad65	4.79842e-61	1.000000	4.79842e-61	1.000000
PAH10+CH3	3.84722e-61	1.000000	3.84722e-61	1.000000
rad47	6.58975e-62	1.000000	6.58975e-62	1.000000
rad55	2.30074e-63	1.000000	2.30074e-63	1.000000
rad62	1.63573e-63	1.000000	1.63573e-63	1.000000
rad34	8.33150e-64	1.000000	8.33150e-64	1.000000
PhcycC3H3_A+H	2.33677e-64	1.000000	2.33677e-64	1.000000
rad43	1.04608e-65	1.000000	1.04608e-65	1.000000
PAH1+H	5.51600e-68	1.000000	5.51600e-68	1.000000
rad42	4.93465e-73	1.000000	4.93465e-73	1.000000
rad41	2.86177e-76	1.000000	2.86177e-76	1.000000

100000.000 Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.85154e-45 (1.00)	6.85153e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.966474	0.966474	0.966474	0.966474
rad21	0.0289730	0.995447	0.0289730	0.995447
rad18	0.00425666	0.999704	0.00425666	0.999704
rad22	0.000276317	0.999980	0.000276317	0.999980
rad45	1.00151e-05	0.999990	1.00151e-05	0.999990
Indene+H	8.62405e-06	0.999999	8.62405e-06	0.999999
rad36	6.45728e-07	0.999999	6.45728e-07	0.999999
rad24	4.97041e-07	1.000000	4.97041e-07	1.000000

Benzyl+C2H2	5.30464e-08	1.000000	0.00000	1.000000
rad11	4.28043e-08	1.000000	4.28043e-08	1.000000
rad23	5.90318e-09	1.000000	5.90318e-09	1.000000
rad6	5.48615e-13	1.000000	5.48615e-13	1.000000
rad30	1.86817e-17	1.000000	1.86817e-17	1.000000
rad15	7.78463e-20	1.000000	7.78463e-20	1.000000
rad13	2.61747e-20	1.000000	2.61747e-20	1.000000
rad7	5.42264e-21	1.000000	5.42264e-21	1.000000
rad25	2.72579e-22	1.000000	2.72579e-22	1.000000
rad38	2.54502e-22	1.000000	2.54502e-22	1.000000
rad33	5.05947e-23	1.000000	5.05947e-23	1.000000
rad35	3.22430e-25	1.000000	3.22430e-25	1.000000
PAH9+H	2.21841e-25	1.000000	2.21841e-25	1.000000
PhCHCCH2+H	1.09598e-26	1.000000	1.09598e-26	1.000000
rad3	2.54444e-27	1.000000	2.54444e-27	1.000000
rad4	1.36194e-27	1.000000	1.36194e-27	1.000000
rad8	1.30082e-27	1.000000	1.30082e-27	1.000000
rad46	2.70983e-28	1.000000	2.70983e-28	1.000000
rad9	5.67318e-29	1.000000	5.67318e-29	1.000000
rad28	2.06810e-30	1.000000	2.06810e-30	1.000000
rad60syn	9.04108e-31	1.000000	9.04108e-31	1.000000
Ph+Allene	7.09758e-32	1.000000	7.09758e-32	1.000000
rad60anti	5.06249e-32	1.000000	5.06249e-32	1.000000
rad2	4.16714e-33	1.000000	4.16714e-33	1.000000
rad1	3.06882e-34	1.000000	3.06882e-34	1.000000
PAH7+H	3.95757e-35	1.000000	3.95757e-35	1.000000
PhCH2CCH+H	2.63839e-36	1.000000	2.63839e-36	1.000000
rad31	1.30938e-36	1.000000	1.30938e-36	1.000000
PhCCH+CH3	9.64375e-38	1.000000	9.64375e-38	1.000000
rad14	4.07369e-38	1.000000	4.07369e-38	1.000000
PAH3+H	1.42248e-38	1.000000	1.42248e-38	1.000000
rad59	6.84339e-39	1.000000	6.84339e-39	1.000000
rad26	5.35290e-39	1.000000	5.35290e-39	1.000000
rad10	2.42162e-39	1.000000	2.42162e-39	1.000000
rad50	6.73197e-42	1.000000	6.73197e-42	1.000000
rad39	3.25684e-42	1.000000	3.25684e-42	1.000000
rad27	4.75652e-43	1.000000	4.75652e-43	1.000000
Ph+MeAc	2.10020e-43	1.000000	2.10020e-43	1.000000
PhCCH3+H	2.21606e-44	1.000000	2.21606e-44	1.000000
rad12	1.29349e-47	1.000000	1.29349e-47	1.000000
rad37	2.94558e-49	1.000000	2.94558e-49	1.000000
rad52	1.98948e-49	1.000000	1.98948e-49	1.000000
rad51	1.22705e-53	1.000000	1.22705e-53	1.000000
rad5	2.00428e-54	1.000000	2.00428e-54	1.000000
rad19syn	8.65514e-55	1.000000	8.65514e-55	1.000000
rad54	4.25700e-56	1.000000	4.25700e-56	1.000000
rad58	1.90383e-56	1.000000	1.90383e-56	1.000000
rad70	2.00680e-57	1.000000	2.00680e-57	1.000000
rad65	1.96722e-59	1.000000	1.96722e-59	1.000000
PAH10+CH3	7.28737e-60	1.000000	7.28737e-60	1.000000
rad47	3.79473e-60	1.000000	3.79473e-60	1.000000
rad55	5.68593e-62	1.000000	5.68593e-62	1.000000
rad62	5.11996e-62	1.000000	5.11996e-62	1.000000
rad34	2.28880e-62	1.000000	2.28880e-62	1.000000
PhcycC3H3_A+H	6.32622e-63	1.000000	6.32622e-63	1.000000
rad43	3.66518e-64	1.000000	3.66518e-64	1.000000
PAH1+H	1.41326e-66	1.000000	1.41326e-66	1.000000
rad42	2.16182e-71	1.000000	2.16182e-71	1.000000
rad41	1.51586e-74	1.000000	1.51586e-74	1.000000

100000.000 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02671e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.961789	0.961789	0.961789	0.961789
rad21	0.0329393	0.994728	0.0329393	0.994728
rad18	0.00488185	0.999610	0.00488185	0.999610
rad22	0.000362930	0.999973	0.000362930	0.999973
rad45	1.35761e-05	0.999987	1.35761e-05	0.999987
Indene+H	1.14397e-05	0.999998	1.14397e-05	0.999998
rad36	8.72065e-07	0.999999	8.72065e-07	0.999999
rad24	5.16644e-07	0.999999	5.16644e-07	0.999999
Benzyl+C2H2	8.37379e-08	1.000000	0.00000	0.999999
rad11	6.17611e-08	1.000000	6.17611e-08	1.000000
rad23	9.23267e-09	1.000000	9.23267e-09	1.000000
rad6	9.92605e-13	1.000000	9.92606e-13	1.000000

rad30	7.08077e-17	1.000000	7.08077e-17	1.000000
rad15	4.25233e-19	1.000000	4.25233e-19	1.000000
rad13	6.04484e-20	1.000000	6.04484e-20	1.000000
rad7	1.28115e-20	1.000000	1.28115e-20	1.000000
rad25	1.47184e-21	1.000000	1.47184e-21	1.000000
rad38	8.61746e-22	1.000000	8.61746e-22	1.000000
rad33	1.25153e-22	1.000000	1.25153e-22	1.000000
rad35	9.40092e-25	1.000000	9.40092e-25	1.000000
PAH9+H	7.16294e-25	1.000000	7.16294e-25	1.000000
PhCHCCH2+H	1.09602e-25	1.000000	1.09602e-25	1.000000
rad8	2.03798e-26	1.000000	2.03798e-26	1.000000
rad3	9.43456e-27	1.000000	9.43456e-27	1.000000
rad4	5.03754e-27	1.000000	5.03754e-27	1.000000
rad46	2.24653e-27	1.000000	2.24653e-27	1.000000
rad9	6.88451e-28	1.000000	6.88451e-28	1.000000
rad28	1.67433e-29	1.000000	1.67433e-29	1.000000
rad60syn	1.36742e-29	1.000000	1.36742e-29	1.000000
Ph+Allene	1.15585e-30	1.000000	1.15585e-30	1.000000
rad60anti	8.12818e-31	1.000000	8.12818e-31	1.000000
rad2	2.52310e-32	1.000000	2.52310e-32	1.000000
rad1	1.84739e-33	1.000000	1.84739e-33	1.000000
PAH7+H	7.05573e-34	1.000000	7.05573e-34	1.000000
PhCH2CCH+H	5.43998e-35	1.000000	5.43998e-35	1.000000
rad31	4.92066e-36	1.000000	4.92066e-36	1.000000
PhCCH+CH3	1.25195e-36	1.000000	1.25195e-36	1.000000
rad14	4.25491e-37	1.000000	4.25491e-37	1.000000
PAH3+H	3.08052e-37	1.000000	3.08052e-37	1.000000
rad59	1.47337e-37	1.000000	1.47337e-37	1.000000
rad26	1.10332e-37	1.000000	1.10332e-37	1.000000
rad10	2.22010e-38	1.000000	2.22010e-38	1.000000
rad50	1.83784e-40	1.000000	1.83784e-40	1.000000
rad39	5.78997e-41	1.000000	5.78997e-41	1.000000
rad27	5.73107e-42	1.000000	5.73107e-42	1.000000
Ph+MeAc	4.61211e-42	1.000000	4.61211e-42	1.000000
PhCCCH3+H	3.74388e-43	1.000000	3.74388e-43	1.000000
rad12	3.00184e-46	1.000000	3.00184e-46	1.000000
rad52	9.00706e-48	1.000000	9.00706e-48	1.000000
rad37	6.93843e-48	1.000000	6.93843e-48	1.000000
rad51	7.87921e-52	1.000000	7.87921e-52	1.000000
rad5	6.84872e-53	1.000000	6.84872e-53	1.000000
rad19syn	3.10715e-53	1.000000	3.10715e-53	1.000000
rad54	1.57152e-54	1.000000	1.57152e-54	1.000000
rad58	7.20576e-55	1.000000	7.20576e-55	1.000000
rad70	8.73414e-56	1.000000	8.73415e-56	1.000000
rad65	1.50336e-57	1.000000	1.50336e-57	1.000000
rad47	4.05294e-58	1.000000	4.05294e-58	1.000000
PAH10+CH3	2.52940e-58	1.000000	2.52940e-58	1.000000
rad62	2.76842e-60	1.000000	2.76842e-60	1.000000
rad55	2.51587e-60	1.000000	2.51587e-60	1.000000
rad34	1.14382e-60	1.000000	1.14382e-60	1.000000
PhcycC3H3_A+H	3.03569e-61	1.000000	3.03569e-61	1.000000
rad43	2.17915e-62	1.000000	2.17915e-62	1.000000
PAH1+H	7.20403e-65	1.000000	7.20403e-65	1.000000
rad42	1.70793e-69	1.000000	1.70793e-69	1.000000
rad41	1.43843e-72	1.000000	1.43843e-72	1.000000

100000.000 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04932e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.956851	0.956851	0.956851	0.956851
rad21	0.0370955	0.993946	0.0370955	0.993946
rad18	0.00554989	0.999496	0.00554989	0.999496
rad22	0.000468609	0.999965	0.000468609	0.999965
rad45	1.80800e-05	0.999983	1.80801e-05	0.999983
Indene+H	1.49356e-05	0.999998	1.49356e-05	0.999998
rad36	1.15796e-06	0.999999	1.15796e-06	0.999999
rad24	5.34375e-07	1.000000	5.34375e-07	1.000000
Benzyl+C2H2	1.30930e-07	1.000000	0.000000	1.000000
rad11	8.83045e-08	1.000000	8.83045e-08	1.000000
rad23	1.40879e-08	1.000000	1.40879e-08	1.000000
rad6	1.78822e-12	1.000000	1.78822e-12	1.000000
rad30	2.54859e-16	1.000000	2.54859e-16	1.000000
rad15	2.30691e-18	1.000000	2.30691e-18	1.000000
rad13	1.40557e-19	1.000000	1.40557e-19	1.000000
rad7	3.06013e-20	1.000000	3.06013e-20	1.000000

rad25	7.99061e-21	1.000000	7.99061e-21	1.000000
rad38	2.84690e-21	1.000000	2.84690e-21	1.000000
rad33	3.14123e-22	1.000000	3.14123e-22	1.000000
rad35	2.74129e-24	1.000000	2.74129e-24	1.000000
PAH9+H	2.30463e-24	1.000000	2.30463e-24	1.000000
PhCHCCH2+H	1.32100e-24	1.000000	1.32100e-24	1.000000
rad8	6.61909e-25	1.000000	6.61909e-25	1.000000
rad3	3.64671e-26	1.000000	3.64671e-26	1.000000
rad46	2.02446e-26	1.000000	2.02446e-26	1.000000
rad4	1.94343e-26	1.000000	1.94343e-26	1.000000
rad9	1.10753e-26	1.000000	1.10753e-26	1.000000
rad60syn	3.58079e-28	1.000000	3.58079e-28	1.000000
rad28	2.31830e-28	1.000000	2.31830e-28	1.000000
Ph+Allene	3.11129e-29	1.000000	3.11129e-29	1.000000
rad60anti	2.41116e-29	1.000000	2.41116e-29	1.000000
rad2	1.66901e-31	1.000000	1.66901e-31	1.000000
PAH7+H	2.40631e-32	1.000000	2.40631e-32	1.000000
rad1	1.21693e-32	1.000000	1.21693e-32	1.000000
PhCH2CCH+H	2.15204e-33	1.000000	2.15204e-33	1.000000
PhCCH+CH3	1.98283e-35	1.000000	1.98283e-35	1.000000
rad31	1.94145e-35	1.000000	1.94145e-35	1.000000
PAH3+H	1.36000e-35	1.000000	1.36000e-35	1.000000
rad59	6.46018e-36	1.000000	6.46018e-36	1.000000
rad14	5.09946e-36	1.000000	5.09946e-36	1.000000
rad26	4.55660e-36	1.000000	4.55660e-36	1.000000
rad10	2.34135e-37	1.000000	2.34135e-37	1.000000
rad50	8.08736e-39	1.000000	8.08737e-39	1.000000
rad39	1.83942e-39	1.000000	1.83942e-39	1.000000
Ph+MeAc	1.57262e-40	1.000000	1.57262e-40	1.000000
rad27	8.29480e-41	1.000000	8.29480e-41	1.000000
PhCCCH3+H	8.25325e-42	1.000000	8.25325e-42	1.000000
rad12	1.38614e-44	1.000000	1.38614e-44	1.000000
rad52	6.95988e-46	1.000000	6.95988e-46	1.000000
rad37	3.26362e-46	1.000000	3.26362e-46	1.000000
rad51	8.84485e-50	1.000000	8.84486e-50	1.000000
rad5	4.14789e-51	1.000000	4.14789e-51	1.000000
rad19syn	2.19738e-51	1.000000	2.19738e-51	1.000000
rad54	1.16590e-52	1.000000	1.16590e-52	1.000000
rad58	5.76410e-53	1.000000	5.76410e-53	1.000000
rad70	7.80246e-54	1.000000	7.80246e-54	1.000000
rad65	2.07351e-55	1.000000	2.07351e-55	1.000000
rad47	7.73255e-56	1.000000	7.73255e-56	1.000000
PAH10+CH3	1.83044e-56	1.000000	1.83044e-56	1.000000
rad62	2.95787e-58	1.000000	2.95787e-58	1.000000
rad55	2.27602e-58	1.000000	2.27602e-58	1.000000
rad34	1.18418e-58	1.000000	1.18418e-58	1.000000
PhcycC3H3_A+H	2.95294e-59	1.000000	2.95294e-59	1.000000
rad43	2.51221e-60	1.000000	2.51221e-60	1.000000
PAH1+H	8.44171e-63	1.000000	8.44171e-63	1.000000
rad42	2.79782e-67	1.000000	2.79782e-67	1.000000
rad41	2.81139e-70	1.000000	2.81139e-70	1.000000

100000.000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87105e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.951611	0.951611	0.951612	0.951612
rad21	0.0414765	0.993088	0.0414765	0.993089
rad18	0.00626902	0.999357	0.00626903	0.999358
rad22	0.000597650	0.999954	0.000597650	0.999955
rad45	2.37912e-05	0.999978	2.37912e-05	0.999979
Indene+H	1.92887e-05	0.999997	1.92887e-05	0.999998
rad36	1.52021e-06	0.999999	1.52021e-06	1.000000
rad24	5.51267e-07	0.999999	5.51267e-07	1.000000
Benzyl+C2H2	2.03230e-07	1.000000	0.000000	1.000000
rad11	1.25703e-07	1.000000	1.25703e-07	1.000000
rad23	2.11463e-08	1.000000	2.11463e-08	1.000000
rad6	3.23094e-12	1.000000	3.23094e-12	1.000000
rad30	8.44411e-16	1.000000	8.44411e-16	1.000000
rad15	1.13699e-17	1.000000	1.13699e-17	1.000000
rad13	3.31980e-19	1.000000	3.31980e-19	1.000000
rad7	7.45687e-20	1.000000	7.45687e-20	1.000000
rad25	4.08620e-20	1.000000	4.08620e-20	1.000000
rad38	9.11785e-21	1.000000	9.11785e-21	1.000000
rad33	8.05035e-22	1.000000	8.05035e-22	1.000000
rad8	2.24303e-23	1.000000	2.24303e-23	1.000000

PhCHCCH2+H	1.57588e-23	1.000000	1.57588e-23	1.00000
rad35	8.03955e-24	1.000000	8.03955e-24	1.00000
PAH9+H	7.41048e-24	1.000000	7.41048e-24	1.00000
rad9	1.83645e-25	1.000000	1.83645e-25	1.00000
rad46	1.74737e-25	1.000000	1.74737e-25	1.00000
rad3	1.46969e-25	1.000000	1.46969e-25	1.00000
rad4	7.82099e-26	1.000000	7.82099e-26	1.00000
rad60syn	1.04928e-26	1.000000	1.04928e-26	1.00000
rad28	5.18122e-27	1.000000	5.18122e-27	1.00000
Ph+Allene	9.99715e-28	1.000000	9.99715e-28	1.00000
rad60anti	8.59952e-28	1.000000	8.59952e-28	1.00000
PAH7+H	1.20712e-30	1.000000	1.20712e-30	1.00000
rad2	1.18185e-30	1.000000	1.18185e-30	1.00000
PhCH2CCH+H	1.27279e-31	1.000000	1.27279e-31	1.00000
rad1	8.59267e-32	1.000000	8.59267e-32	1.00000
PAH3+H	9.36312e-34	1.000000	9.36313e-34	1.00000
rad59	4.41171e-34	1.000000	4.41171e-34	1.00000
PhCCH+CH3	3.37593e-34	1.000000	3.37593e-34	1.00000
rad26	2.90124e-34	1.000000	2.90124e-34	1.00000
rad31	8.02768e-35	1.000000	8.02768e-35	1.00000
rad14	6.44004e-35	1.000000	6.44004e-35	1.00000
rad10	2.72475e-36	1.000000	2.72475e-36	1.00000
rad50	4.59179e-37	1.000000	4.59180e-37	1.00000
rad39	7.47194e-38	1.000000	7.47194e-38	1.00000
Ph+MeAc	6.53381e-39	1.000000	6.53381e-39	1.00000
rad27	1.33769e-39	1.000000	1.33769e-39	1.00000
PhCCCH3+H	2.06829e-40	1.000000	2.06829e-40	1.00000
rad12	9.82923e-43	1.000000	9.82923e-43	1.00000
rad52	7.19657e-44	1.000000	7.19657e-44	1.00000
rad37	2.36672e-44	1.000000	2.36672e-44	1.00000
rad51	1.34633e-47	1.000000	1.34634e-47	1.00000
rad5	3.50973e-49	1.000000	3.50974e-49	1.00000
rad19syn	2.38678e-49	1.000000	2.38678e-49	1.00000
rad54	1.34802e-50	1.000000	1.34802e-50	1.00000
rad58	7.43598e-51	1.000000	7.43599e-51	1.00000
rad70	1.10089e-51	1.000000	1.10089e-51	1.00000
rad65	3.95079e-53	1.000000	3.95079e-53	1.00000
rad47	2.02119e-53	1.000000	2.02119e-53	1.00000
PAH10+CH3	2.11029e-54	1.000000	2.11029e-54	1.00000
rad62	4.86092e-56	1.000000	4.86092e-56	1.00000
rad55	3.24643e-56	1.000000	3.24643e-56	1.00000
rad34	1.94899e-56	1.000000	1.94899e-56	1.00000
PhcycC3H3_A+H	4.49994e-57	1.000000	4.49994e-57	1.00000
rad43	4.38471e-58	1.000000	4.38471e-58	1.00000
PAH1+H	1.70404e-60	1.000000	1.70404e-60	1.00000
rad42	7.36137e-65	1.000000	7.36137e-65	1.00000
rad41	8.76309e-68	1.000000	8.76309e-68	1.00000

100000.000 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.94360e-35 (1.00)	3.94360e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.946020	0.946020	0.946020	0.946020
rad21	0.0461176	0.992138	0.0461176	0.992138
rad18	0.00704834	0.999186	0.00704835	0.999186
rad22	0.000755525	0.999941	0.000755525	0.999941
rad45	3.10606e-05	0.999973	3.10607e-05	0.999973
Indene+H	2.47327e-05	0.999997	2.47327e-05	0.999997
rad36	1.98118e-06	0.999999	1.98118e-06	0.999999
rad24	5.68066e-07	1.000000	5.68066e-07	1.000000
Benzyl+C2H2	3.13575e-07	1.000000	0.000000	1.000000
rad11	1.78732e-07	1.000000	1.78732e-07	1.000000
rad23	3.14138e-08	1.000000	3.14138e-08	1.000000
rad6	5.87965e-12	1.000000	5.87966e-12	1.000000
rad30	2.56507e-15	1.000000	2.56507e-15	1.000000
rad15	4.94327e-17	1.000000	4.94327e-17	1.000000
rad13	7.99185e-19	1.000000	7.99185e-19	1.000000
rad25	1.91406e-19	1.000000	1.91406e-19	1.000000
rad7	1.86022e-19	1.000000	1.86022e-19	1.000000
rad38	2.82673e-20	1.000000	2.82673e-20	1.000000
rad33	2.10641e-21	1.000000	2.10641e-21	1.000000
rad8	5.67135e-22	1.000000	5.67135e-22	1.000000
PhCHCCH2+H	1.64775e-22	1.000000	1.64775e-22	1.000000
PAH9+H	2.38208e-23	1.000000	2.38208e-23	1.000000
rad35	2.37416e-23	1.000000	2.37416e-23	1.000000
rad9	2.64239e-24	1.000000	2.64239e-24	1.000000

rad46	1.34097e-24	1.00000	1.34097e-24	1.00000
rad3	6.12096e-25	1.00000	6.12096e-25	1.00000
rad4	3.25381e-25	1.00000	3.25381e-25	1.00000
rad60syn	2.51677e-25	1.00000	2.51677e-25	1.00000
rad28	1.16686e-25	1.00000	1.16686e-25	1.00000
Ph+Allene	2.81645e-26	1.00000	2.81645e-26	1.00000
rad60anti	2.50927e-26	1.00000	2.50927e-26	1.00000
PAH7+H	5.54462e-29	1.00000	5.54462e-29	1.00000
PhCH2CCH+H	8.89520e-30	1.00000	8.89520e-30	1.00000
rad2	8.68727e-30	1.00000	8.68727e-30	1.00000
rad1	6.30523e-31	1.00000	6.30524e-31	1.00000
PAH3+H	8.01250e-32	1.00000	8.01251e-32	1.00000
rad59	3.73568e-32	1.00000	3.73568e-32	1.00000
rad26	2.24927e-32	1.00000	2.24927e-32	1.00000
PhCCH+CH3	5.57983e-33	1.00000	5.57983e-33	1.00000
rad14	8.00269e-34	1.00000	8.00269e-34	1.00000
rad31	3.44381e-34	1.00000	3.44381e-34	1.00000
rad10	3.32339e-35	1.00000	3.32340e-35	1.00000
rad50	2.72753e-35	1.00000	2.72753e-35	1.00000
rad39	2.76978e-36	1.00000	2.76978e-36	1.00000
Ph+MeAc	2.60707e-37	1.00000	2.60707e-37	1.00000
rad27	2.22123e-38	1.00000	2.22123e-38	1.00000
PhCCCH3+H	5.19727e-39	1.00000	5.19727e-39	1.00000
rad12	8.51131e-41	1.00000	8.51131e-41	1.00000
rad52	8.08996e-42	1.00000	8.08996e-42	1.00000
rad37	2.11165e-42	1.00000	2.11165e-42	1.00000
rad51	2.24733e-45	1.00000	2.24733e-45	1.00000
rad5	3.26977e-47	1.00000	3.26977e-47	1.00000
rad19syn	3.23032e-47	1.00000	3.23032e-47	1.00000
rad54	1.97413e-48	1.00000	1.97413e-48	1.00000
rad58	1.25488e-48	1.00000	1.25488e-48	1.00000
rad70	1.99373e-49	1.00000	1.99373e-49	1.00000
rad65	8.35842e-51	1.00000	8.35843e-51	1.00000
rad47	5.81635e-51	1.00000	5.81635e-51	1.00000
PAH10+CH3	3.13837e-52	1.00000	3.13837e-52	1.00000
rad62	9.95753e-54	1.00000	9.95753e-54	1.00000
rad55	5.94018e-54	1.00000	5.94018e-54	1.00000
rad34	4.14346e-54	1.00000	4.14346e-54	1.00000
PhcycC3H3_A+H	8.74896e-55	1.00000	8.74897e-55	1.00000
rad43	9.37010e-56	1.00000	9.37010e-56	1.00000
PAH1+H	4.51933e-58	1.00000	4.51933e-58	1.00000
rad42	2.52951e-62	1.00000	2.52951e-62	1.00000
rad41	3.53133e-65	1.00000	3.53134e-65	1.00000

100000.000 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.44756e-33 (1.00)	1.44756e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.940023	0.940023	0.940023	0.940023
rad21	0.0510544	0.991077	0.0510544	0.991077
rad18	0.00789791	0.998975	0.00789792	0.998975
rad22	0.000949154	0.999924	0.000949155	0.999924
rad45	4.03526e-05	0.999965	4.03527e-05	0.999965
Indene+H	3.15757e-05	0.999996	3.15757e-05	0.999996
rad36	2.57053e-06	0.999999	2.57053e-06	0.999999
rad24	5.85318e-07	1.000000	5.85319e-07	1.000000
Benzyl+C2H2	4.81257e-07	1.000000	0.000000	1.000000
rad11	2.54349e-07	1.000000	2.54350e-07	1.000000
rad23	4.63909e-08	1.000000	4.63909e-08	1.000000
rad6	1.07968e-11	1.000000	1.07968e-11	1.000000
rad30	7.20024e-15	1.000000	7.20025e-15	1.000000
rad15	1.89995e-16	1.000000	1.89995e-16	1.000000
rad13	1.95907e-18	1.000000	1.95907e-18	1.000000
rad25	8.17856e-19	1.000000	8.17856e-19	1.000000
rad7	4.74630e-19	1.000000	4.74630e-19	1.000000
rad38	8.48973e-20	1.000000	8.48973e-20	1.000000
rad8	1.00088e-20	1.000000	1.00088e-20	1.000000
rad33	5.59987e-21	1.000000	5.59987e-21	1.000000
PhCHCCH2+H	1.45187e-21	1.000000	1.45187e-21	1.000000
PAH9+H	7.64211e-23	1.000000	7.64211e-23	1.000000
rad35	7.04706e-23	1.000000	7.04707e-23	1.000000
rad9	3.12539e-23	1.000000	3.12539e-23	1.000000
rad46	8.93707e-24	1.000000	8.93708e-24	1.000000
rad60syn	4.46575e-24	1.000000	4.46575e-24	1.000000
rad3	2.59915e-24	1.000000	2.59915e-24	1.000000
rad28	2.06436e-24	1.000000	2.06436e-24	1.000000

rad4	1.38067e-24	1.00000	1.38067e-24	1.000000
Ph+Allene	6.08255e-25	1.00000	6.08255e-25	1.000000
rad60anti	5.29991e-25	1.00000	5.29991e-25	1.000000
PAH7+H	1.72326e-27	1.00000	1.72326e-27	1.000000
PhCH2CCH+H	5.54821e-28	1.00000	5.54821e-28	1.000000
rad2	6.43258e-29	1.00000	6.43259e-29	1.000000
PAH3+H	6.28574e-30	1.00000	6.28574e-30	1.000000
rad1	4.66553e-30	1.00000	4.66553e-30	1.000000
rad59	2.89124e-30	1.00000	2.89124e-30	1.000000
rad26	1.49284e-30	1.00000	1.49284e-30	1.000000
PhCCH+CH3	8.46581e-32	1.00000	8.46582e-32	1.000000
rad14	9.39328e-33	1.00000	9.39328e-33	1.000000
rad31	1.51163e-33	1.00000	1.51163e-33	1.000000
rad50	1.35581e-33	1.00000	1.35581e-33	1.000000
rad10	4.09906e-34	1.00000	4.09906e-34	1.000000
rad39	7.89673e-35	1.00000	7.89673e-35	1.000000
Ph+MeAc	8.61628e-36	1.00000	8.61628e-36	1.000000
rad27	3.57803e-37	1.00000	3.57803e-37	1.000000
PhCCCH3+H	1.20835e-37	1.00000	1.20835e-37	1.000000
rad12	6.45777e-39	1.00000	6.45778e-39	1.000000
rad52	7.91903e-40	1.00000	7.91903e-40	1.000000
rad37	1.67999e-40	1.00000	1.67999e-40	1.000000
rad51	3.28227e-43	1.00000	3.28227e-43	1.000000
rad19syn	4.05886e-45	1.00000	4.05886e-45	1.000000
rad5	2.57686e-45	1.00000	2.57686e-45	1.000000
rad54	2.71850e-46	1.00000	2.71850e-46	1.000000
rad58	2.03902e-46	1.00000	2.03902e-46	1.000000
rad70	3.42584e-47	1.00000	3.42584e-47	1.000000
rad65	1.56025e-48	1.00000	1.56025e-48	1.000000
rad47	1.46297e-48	1.00000	1.46297e-48	1.000000
PAH10+CH3	4.44213e-50	1.00000	4.44214e-50	1.000000
rad62	1.88887e-51	1.00000	1.88887e-51	1.000000
rad55	1.03183e-51	1.00000	1.03183e-51	1.000000
rad34	8.39792e-52	1.00000	8.39792e-52	1.000000
PhcycC3H3_A+H	1.60823e-52	1.00000	1.60823e-52	1.000000
rad43	1.82705e-53	1.00000	1.82706e-53	1.000000
PAH1+H	1.14872e-55	1.00000	1.14872e-55	1.000000
rad42	8.37757e-60	1.00000	8.37757e-60	1.000000
rad41	1.35532e-62	1.00000	1.35532e-62	1.000000

100000.000 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27736e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.933565	0.933565	0.933566	0.933566
rad21	0.0563213	0.989886	0.0563213	0.989887
rad18	0.00882879	0.998715	0.00882880	0.998716
rad22	0.00118722	0.999902	0.00118722	0.999903
rad45	5.22775e-05	0.999955	5.22776e-05	0.999956
Indene+H	4.02230e-05	0.999995	4.02230e-05	0.999996
rad36	3.32734e-06	0.999998	3.32734e-06	0.999999
Benzyl+C2H2	7.34786e-07	0.999999	0.000000	0.999999
rad24	6.03425e-07	0.999999	6.03425e-07	1.000000
rad11	3.62658e-07	1.000000	3.62659e-07	1.000000
rad23	6.83206e-08	1.000000	6.83206e-08	1.000000
rad6	2.00046e-11	1.000000	2.00046e-11	1.000000
rad30	1.88838e-14	1.000000	1.88838e-14	1.000000
rad15	6.54207e-16	1.000000	6.54207e-16	1.000000
rad13	4.87044e-18	1.000000	4.87044e-18	1.000000
rad25	3.20676e-18	1.000000	3.20677e-18	1.000000
rad7	1.23368e-18	1.000000	1.23368e-18	1.000000
rad38	2.47371e-19	1.000000	2.47372e-19	1.000000
rad8	1.27003e-19	1.000000	1.27003e-19	1.000000
rad33	1.50109e-20	1.000000	1.50109e-20	1.000000
PhCHCCH2+H	1.07909e-20	1.000000	1.07909e-20	1.000000
rad9	3.06575e-22	1.000000	3.06575e-22	1.000000
PAH9+H	2.43999e-22	1.000000	2.43999e-22	1.000000
rad35	2.09530e-22	1.000000	2.09530e-22	1.000000
rad60syn	5.88805e-23	1.000000	5.88805e-23	1.000000
rad46	5.18811e-23	1.000000	5.18811e-23	1.000000
rad28	2.76085e-23	1.000000	2.76086e-23	1.000000
rad3	1.10924e-23	1.000000	1.10924e-23	1.000000
Ph+Allene	9.94874e-24	1.000000	9.94875e-24	1.000000
rad60anti	8.14384e-24	1.000000	8.14384e-24	1.000000
rad4	5.88987e-24	1.000000	5.88988e-24	1.000000
PhCH2CCH+H	3.99334e-26	1.000000	3.99334e-26	1.000000

PAH7+H	3.71649e-26	1.000000	3.71649e-26	1.00000
rad2	4.68361e-28	1.000000	4.68361e-28	1.00000
PAH3+H	3.77791e-28	1.000000	3.77792e-28	1.00000
rad59	1.61700e-28	1.000000	1.61700e-28	1.00000
rad26	5.97329e-29	1.000000	5.97329e-29	1.00000
rad1	3.39784e-29	1.000000	3.39785e-29	1.00000
PhCCH+CH3	1.15435e-30	1.000000	1.15436e-30	1.00000
rad14	1.02059e-31	1.000000	1.02060e-31	1.00000
rad50	5.14366e-32	1.000000	5.14366e-32	1.00000
rad31	6.69304e-33	1.000000	6.69305e-33	1.00000
rad10	5.09575e-33	1.000000	5.09576e-33	1.00000
rad39	1.73240e-33	1.000000	1.73241e-33	1.00000
Ph+MeAc	2.32375e-34	1.000000	2.32375e-34	1.00000
rad27	5.40869e-36	1.000000	5.40870e-36	1.00000
PhCCCH3+H	2.53474e-36	1.000000	2.53474e-36	1.00000
rad12	3.52669e-37	1.000000	3.52669e-37	1.00000
rad52	7.25698e-38	1.000000	7.25699e-38	1.00000
rad37	1.08045e-38	1.000000	1.08046e-38	1.00000
rad51	4.53508e-41	1.000000	4.53508e-41	1.00000
rad19syn	6.15833e-43	1.000000	6.15833e-43	1.00000
rad5	1.79428e-43	1.000000	1.79428e-43	1.00000
rad54	4.75535e-44	1.000000	4.75535e-44	1.00000
rad58	4.51015e-44	1.000000	4.51015e-44	1.00000
rad70	7.76558e-45	1.000000	7.76558e-45	1.00000
rad47	3.46698e-46	1.000000	3.46698e-46	1.00000
rad65	2.78096e-46	1.000000	2.78096e-46	1.00000
PAH10+CH3	8.33548e-48	1.000000	8.33549e-48	1.00000
rad62	4.30881e-49	1.000000	4.30881e-49	1.00000
rad55	2.36763e-49	1.000000	2.36763e-49	1.00000
rad34	2.27642e-49	1.000000	2.27642e-49	1.00000
PhcycC3H3_A+H	3.88044e-50	1.000000	3.88044e-50	1.00000
rad43	4.11842e-51	1.000000	4.11842e-51	1.00000
PAH1+H	3.14968e-53	1.000000	3.14968e-53	1.00000
rad42	3.57441e-57	1.000000	3.57441e-57	1.00000
rad41	6.54875e-60	1.000000	6.54876e-60	1.00000

100000.000 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01168e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.926590	0.926590	0.926591	0.926591
rad21	0.0619507	0.988541	0.0619507	0.988542
rad18	0.00985303	0.998394	0.00985304	0.998395
rad22	0.00148052	0.999874	0.00148052	0.999875
rad45	6.76326e-05	0.999942	6.76327e-05	0.999943
Indene+H	5.12067e-05	0.999993	5.12068e-05	0.999994
rad36	4.30285e-06	0.999997	4.30285e-06	0.999998
Benzyl+C2H2	1.11589e-06	0.999999	0.00000	0.999998
rad24	6.22672e-07	0.999999	6.22673e-07	0.999999
rad11	5.18245e-07	1.000000	5.18245e-07	1.000000
rad23	1.00556e-07	1.000000	1.00556e-07	1.000000
rad6	3.73450e-11	1.000000	3.73450e-11	1.000000
rad30	4.67649e-14	1.000000	4.67649e-14	1.000000
rad15	2.04926e-15	1.000000	2.04926e-15	1.000000
rad13	1.22088e-17	1.000000	1.22088e-17	1.000000
rad25	1.16396e-17	1.000000	1.16396e-17	1.000000
rad7	3.24823e-18	1.000000	3.24823e-18	1.000000
rad8	1.21205e-18	1.000000	1.21205e-18	1.000000
rad38	7.00229e-19	1.000000	7.00230e-19	1.000000
PhCHCCH2+H	6.86702e-20	1.000000	6.86703e-20	1.000000
rad33	4.02220e-20	1.000000	4.02221e-20	1.000000
rad9	2.56535e-21	1.000000	2.56536e-21	1.000000
PAH9+H	7.72731e-22	1.000000	7.72732e-22	1.000000
rad35	6.21634e-22	1.000000	6.21635e-22	1.000000
rad60syn	5.95334e-22	1.000000	5.95335e-22	1.000000
rad28	2.84625e-22	1.000000	2.84625e-22	1.000000
rad46	2.65741e-22	1.000000	2.65741e-22	1.000000
Ph+Allene	1.25608e-22	1.000000	1.25608e-22	1.000000
rad60anti	9.40908e-23	1.000000	9.40909e-23	1.000000
rad3	4.69588e-23	1.000000	4.69588e-23	1.000000
rad4	2.49315e-23	1.000000	2.49315e-23	1.000000
PhCH2CCH+H	1.28525e-24	1.000000	1.28525e-24	1.000000
PAH7+H	5.76574e-25	1.000000	5.76574e-25	1.000000
PAH3+H	1.13074e-26	1.000000	1.13074e-26	1.000000
rad59	4.58392e-27	1.000000	4.58393e-27	1.000000
rad2	3.29396e-27	1.000000	3.29396e-27	1.000000

rad26	1.41594e-27	1.000000	1.41595e-27	1.000000
rad1	2.39241e-28	1.000000	2.39242e-28	1.000000
PhCCH+CH3	1.40203e-29	1.000000	1.40203e-29	1.000000
rad50	1.32770e-30	1.000000	1.32770e-30	1.000000
rad14	1.01585e-30	1.000000	1.01585e-30	1.000000
rad10	6.30981e-32	1.000000	6.30982e-32	1.000000
rad31	2.95150e-32	1.000000	2.95151e-32	1.000000
rad39	2.92931e-32	1.000000	2.92932e-32	1.000000
Ph+MeAc	4.99768e-33	1.000000	4.99769e-33	1.000000
rad27	7.49317e-35	1.000000	7.49318e-35	1.000000
PhCCCH3+H	4.68365e-35	1.000000	4.68365e-35	1.000000
rad12	1.12532e-35	1.000000	1.12532e-35	1.000000
rad52	4.91183e-36	1.000000	4.91183e-36	1.000000
rad37	4.04865e-37	1.000000	4.04865e-37	1.000000
rad51	4.67175e-39	1.000000	4.67176e-39	1.000000
rad19syn	7.07114e-41	1.000000	7.07115e-41	1.000000
rad5	8.95025e-42	1.000000	8.95026e-42	1.000000
rad58	8.24154e-42	1.000000	8.24155e-42	1.000000
rad54	6.55369e-42	1.000000	6.55369e-42	1.000000
rad70	1.42454e-42	1.000000	1.42454e-42	1.000000
rad47	6.07404e-44	1.000000	6.07405e-44	1.000000
rad65	3.71851e-44	1.000000	3.71851e-44	1.000000
PAH10+CH3	1.27377e-45	1.000000	1.27377e-45	1.000000
rad62	7.47850e-47	1.000000	7.47851e-47	1.000000
rad34	5.04044e-47	1.000000	5.04044e-47	1.000000
rad55	4.40778e-47	1.000000	4.40778e-47	1.000000
PhcycC3H3_A+H	7.56923e-48	1.000000	7.56924e-48	1.000000
rad43	6.92682e-49	1.000000	6.92682e-49	1.000000
PAH1+H	6.63716e-51	1.000000	6.63717e-51	1.000000
rad42	1.20102e-54	1.000000	1.20102e-54	1.000000
rad41	2.44775e-57	1.000000	2.44776e-57	1.000000

100000.000 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54820e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.919041	0.919041	0.919043	0.919043
rad21	0.0679714	0.987012	0.0679715	0.987015
rad18	0.0109837	0.997996	0.0109837	0.997998
rad22	0.00184236	0.999838	0.00184236	0.999841
rad45	8.74516e-05	0.999926	8.74517e-05	0.999928
Indene+H	6.52238e-05	0.999991	6.52240e-05	0.999993
rad36	5.56377e-06	0.999997	5.56378e-06	0.999999
Benzyl+C2H2	1.68501e-06	0.999998	0.000000	0.999999
rad11	7.42020e-07	0.999999	7.42022e-07	1.000000
rad24	6.43257e-07	1.000000	6.43258e-07	1.000000
rad23	1.48102e-07	1.000000	1.48102e-07	1.000000
rad6	7.00785e-11	1.000000	7.00786e-11	1.000000
rad30	1.10336e-13	1.000000	1.10336e-13	1.000000
rad15	5.92272e-15	1.000000	5.92273e-15	1.000000
rad25	3.94471e-17	1.000000	3.94472e-17	1.000000
rad13	3.06574e-17	1.000000	3.06575e-17	1.000000
rad8	9.08204e-18	1.000000	9.08206e-18	1.000000
rad7	8.60979e-18	1.000000	8.60981e-18	1.000000
rad38	1.92765e-18	1.000000	1.92766e-18	1.000000
PhCHCCH2+H	3.80931e-19	1.000000	3.80932e-19	1.000000
rad33	1.06830e-19	1.000000	1.06830e-19	1.000000
rad9	1.88278e-20	1.000000	1.88279e-20	1.000000
rad60syn	4.78509e-21	1.000000	4.78510e-21	1.000000
PAH9+H	2.41923e-21	1.000000	2.41923e-21	1.000000
rad28	2.33496e-21	1.000000	2.33497e-21	1.000000
rad35	1.83395e-21	1.000000	1.83396e-21	1.000000
Ph+Allene	1.26248e-21	1.000000	1.26248e-21	1.000000
rad46	1.21922e-21	1.000000	1.21922e-21	1.000000
rad60anti	8.49560e-22	1.000000	8.49561e-22	1.000000
rad3	1.95060e-22	1.000000	1.95061e-22	1.000000
rad4	1.03579e-22	1.000000	1.03579e-22	1.000000
PhCH2CCH+H	2.59789e-23	1.000000	2.59789e-23	1.000000
PAH7+H	6.75911e-24	1.000000	6.75912e-24	1.000000
PAH3+H	2.23458e-25	1.000000	2.23458e-25	1.000000
rad59	8.70693e-26	1.000000	8.70695e-26	1.000000
rad26	2.35043e-26	1.000000	2.35043e-26	1.000000
rad2	2.21026e-26	1.000000	2.21027e-26	1.000000
rad1	1.60855e-27	1.000000	1.60855e-27	1.000000
PhCCH+CH3	1.51685e-28	1.000000	1.51685e-28	1.000000
rad50	2.50027e-29	1.000000	2.50027e-29	1.000000

rad14	9.22584e-30	1.000000	9.22585e-30	1.00000
rad10	7.54515e-31	1.000000	7.54517e-31	1.00000
rad39	3.95133e-31	1.000000	3.95134e-31	1.00000
rad31	1.28281e-31	1.000000	1.28281e-31	1.00000
Ph+MeAc	8.74635e-32	1.000000	8.74637e-32	1.00000
rad27	9.40482e-34	1.000000	9.40484e-34	1.00000
PhCCCH3+H	7.59751e-34	1.000000	7.59752e-34	1.00000
rad12	2.47245e-34	1.000000	2.47246e-34	1.00000
rad52	2.37180e-34	1.000000	2.37180e-34	1.00000
rad37	1.02793e-35	1.000000	1.02793e-35	1.00000
rad51	3.49193e-37	1.000000	3.49193e-37	1.00000
rad19syn	5.75163e-39	1.000000	5.75164e-39	1.00000
rad58	1.19354e-39	1.000000	1.19354e-39	1.00000
rad54	6.76211e-40	1.000000	6.76212e-40	1.00000
rad5	3.31431e-40	1.000000	3.31432e-40	1.00000
rad70	2.02730e-40	1.000000	2.02730e-40	1.00000
rad47	7.63016e-42	1.000000	7.63017e-42	1.00000
rad65	3.62999e-42	1.000000	3.63000e-42	1.00000
PAH10+CH3	1.51357e-43	1.000000	1.51358e-43	1.00000
rad62	9.47080e-45	1.000000	9.47081e-45	1.00000
rad34	8.74959e-45	1.000000	8.74960e-45	1.00000
rad55	6.38442e-45	1.000000	6.38443e-45	1.00000
PhcycC3H3_A+H	1.14556e-45	1.000000	1.14556e-45	1.00000
rad43	8.38508e-47	1.000000	8.38510e-47	1.00000
PAH1+H	1.04242e-48	1.000000	1.04242e-48	1.00000
rad42	3.01167e-52	1.000000	3.01167e-52	1.00000
rad41	6.71631e-55	1.000000	6.71632e-55	1.00000

100000.000 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69315e-29 (1.00)	4.69314e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.910861	0.910861	0.910864	0.910864
rad21	0.0744068	0.985268	0.0744070	0.985271
rad18	0.0122348	0.997503	0.0122348	0.997506
rad22	0.00228899	0.999792	0.00228900	0.999795
rad45	0.000113064	0.999905	0.000113065	0.999908
Indene+H	8.31849e-05	0.999988	8.31851e-05	0.999991
rad36	7.19638e-06	0.999995	7.19640e-06	0.999998
Benzyl+C2H2	2.52881e-06	0.999998	0.00000	0.999998
rad11	1.06371e-06	0.999999	1.06372e-06	0.999999
rad24	6.65302e-07	0.999999	6.65304e-07	1.000000
rad23	2.18407e-07	1.000000	2.18408e-07	1.00000
rad6	1.31817e-10	1.000000	1.31817e-10	1.00000
rad30	2.49784e-13	1.000000	2.49785e-13	1.00000
rad15	1.59843e-14	1.000000	1.59843e-14	1.00000
rad25	1.25744e-16	1.000000	1.25745e-16	1.00000
rad13	7.66229e-17	1.000000	7.66231e-17	1.00000
rad8	5.54394e-17	1.000000	5.54395e-17	1.00000
rad7	2.28359e-17	1.000000	2.28360e-17	1.00000
rad38	5.16487e-18	1.000000	5.16488e-18	1.00000
PhCHCCH2+H	1.87346e-18	1.000000	1.87347e-18	1.00000
rad33	2.79176e-19	1.000000	2.79176e-19	1.00000
rad9	1.23315e-19	1.000000	1.23315e-19	1.00000
rad60syn	3.15971e-20	1.000000	3.15972e-20	1.00000
rad28	1.57221e-20	1.000000	1.57221e-20	1.00000
Ph+Allene	1.04055e-20	1.000000	1.04055e-20	1.00000
PAH9+H	7.46462e-21	1.000000	7.46464e-21	1.00000
rad60anti	6.20969e-21	1.000000	6.20971e-21	1.00000
rad35	5.36953e-21	1.000000	5.36954e-21	1.00000
rad46	5.08203e-21	1.000000	5.08205e-21	1.00000
rad3	7.88250e-22	1.000000	7.88252e-22	1.00000
rad4	4.18755e-22	1.000000	4.18756e-22	1.00000
PhCH2CCH+H	3.77972e-22	1.000000	3.77973e-22	1.00000
PAH7+H	6.23363e-23	1.000000	6.23364e-23	1.00000
PAH3+H	3.23064e-24	1.000000	3.23064e-24	1.00000
rad59	1.21661e-24	1.000000	1.21661e-24	1.00000
rad26	2.92443e-25	1.000000	2.92443e-25	1.00000
rad2	1.40358e-25	1.000000	1.40358e-25	1.00000
rad1	1.02440e-26	1.000000	1.02440e-26	1.00000
PhCCH+CH3	1.46617e-27	1.000000	1.46617e-27	1.00000
rad50	3.60786e-28	1.000000	3.60787e-28	1.00000
rad14	7.63807e-29	1.000000	7.63809e-29	1.00000
rad10	8.33754e-30	1.000000	8.33756e-30	1.00000
rad39	4.37628e-30	1.000000	4.37629e-30	1.00000
Ph+MeAc	1.26968e-30	1.000000	1.26968e-30	1.00000

rad31	5.45086e-31	1.000000	5.45088e-31	1.00000
PhCCCH3+H	1.08226e-32	1.000000	1.08226e-32	1.00000
rad27	1.06279e-32	1.000000	1.06279e-32	1.00000
rad52	7.58874e-33	1.000000	7.58876e-33	1.00000
rad12	4.04373e-33	1.000000	4.04374e-33	1.00000
rad37	1.91561e-34	1.000000	1.91562e-34	1.00000
rad51	1.90426e-35	1.000000	1.90426e-35	1.00000
rad19syn	3.13575e-37	1.000000	3.13575e-37	1.00000
rad58	1.55023e-37	1.000000	1.55023e-37	1.00000
rad54	5.38032e-38	1.000000	5.38033e-38	1.00000
rad70	2.46903e-38	1.000000	2.46903e-38	1.00000
rad5	9.41595e-39	1.000000	9.41598e-39	1.00000
rad47	6.89772e-40	1.000000	6.89774e-40	1.00000
rad65	2.61272e-40	1.000000	2.61272e-40	1.00000
PAH10+CH3	1.52627e-41	1.000000	1.52627e-41	1.00000
rad34	1.33520e-42	1.000000	1.33521e-42	1.00000
rad62	9.09701e-43	1.000000	9.09703e-43	1.00000
rad55	7.94380e-43	1.000000	7.94382e-43	1.00000
PhcycC3H3_A+H	1.48228e-43	1.000000	1.48228e-43	1.00000
rad43	7.52781e-45	1.000000	7.52783e-45	1.00000
PAH1+H	1.29701e-46	1.000000	1.29701e-46	1.00000
rad42	5.96882e-50	1.000000	5.96884e-50	1.00000
rad41	1.42447e-52	1.000000	1.42447e-52	1.00000

100000.000 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.16530e-28 (1.00)	3.16529e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.901998	0.901998	0.902001	0.902001
rad21	0.0812731	0.983271	0.0812734	0.983274
rad18	0.0136213	0.996892	0.0136213	0.996896
rad22	0.00284004	0.999732	0.00284005	0.999736
rad45	0.000146165	0.999879	0.000146165	0.999882
Indene+H	0.000106276	0.999985	0.000106276	0.999988
rad36	9.31130e-06	0.999994	9.31133e-06	0.999998
Benzyl+C2H2	3.77017e-06	0.999998	0.00000	0.999998
rad11	1.52516e-06	0.999999	1.52517e-06	0.999999
rad24	6.88863e-07	1.00000	6.88865e-07	1.00000
rad23	3.22508e-07	1.00000	3.22509e-07	1.00000
rad6	2.47811e-10	1.00000	2.47812e-10	1.00000
rad30	5.45573e-13	1.00000	5.45575e-13	1.00000
rad15	4.06785e-14	1.00000	4.06786e-14	1.00000
rad25	3.79276e-16	1.00000	3.79278e-16	1.00000
rad8	2.84279e-16	1.00000	2.84280e-16	1.00000
rad13	1.89492e-16	1.00000	1.89493e-16	1.00000
rad7	6.02791e-17	1.00000	6.02793e-17	1.00000
rad38	1.34773e-17	1.00000	1.34773e-17	1.00000
PhCHCCH2+H	8.29044e-18	1.00000	8.29047e-18	1.00000
rad9	7.25847e-19	1.00000	7.25850e-19	1.00000
rad33	7.13482e-19	1.00000	7.13485e-19	1.00000
rad60syn	1.76323e-19	1.00000	1.76324e-19	1.00000
rad28	8.92876e-20	1.00000	8.92879e-20	1.00000
Ph+Allene	7.22130e-20	1.00000	7.22133e-20	1.00000
rad60anti	3.78744e-20	1.00000	3.78746e-20	1.00000
PAH9+H	2.26412e-20	1.00000	2.26413e-20	1.00000
rad46	1.94842e-20	1.00000	1.94842e-20	1.00000
rad35	1.56056e-20	1.00000	1.56057e-20	1.00000
PhCH2CCH+H	4.23736e-21	1.00000	4.23738e-21	1.00000
rad3	3.07916e-21	1.00000	3.07917e-21	1.00000
rad4	1.63697e-21	1.00000	1.63698e-21	1.00000
PAH7+H	4.68031e-22	1.00000	4.68033e-22	1.00000
PAH3+H	3.62688e-23	1.00000	3.62689e-23	1.00000
rad59	1.32200e-23	1.00000	1.32200e-23	1.00000
rad26	2.85633e-24	1.00000	2.85634e-24	1.00000
rad2	8.39572e-25	1.00000	8.39575e-25	1.00000
rad1	6.15046e-26	1.00000	6.15048e-26	1.00000
PhCCH+CH3	1.27469e-26	1.00000	1.27469e-26	1.00000
rad50	4.16172e-27	1.00000	4.16173e-27	1.00000
rad14	5.77596e-28	1.00000	5.77598e-28	1.00000
rad10	8.28033e-29	1.00000	8.28036e-29	1.00000
rad39	4.09558e-29	1.00000	4.09560e-29	1.00000
Ph+MeAc	1.57378e-29	1.00000	1.57379e-29	1.00000
rad31	2.25100e-30	1.00000	2.25101e-30	1.00000
rad52	1.72998e-31	1.00000	1.72999e-31	1.00000
PhCCCH3+H	1.37507e-31	1.00000	1.37508e-31	1.00000
rad27	1.08369e-31	1.00000	1.08369e-31	1.00000

rad12	5.26849e-32	1.00000	5.26851e-32	1.00000
rad37	2.85036e-33	1.00000	2.85037e-33	1.00000
rad51	8.52936e-34	1.00000	8.52939e-34	1.00000
rad58	2.53364e-35	1.00000	2.53365e-35	1.00000
rad19syn	1.25097e-35	1.00000	1.25098e-35	1.00000
rad54	3.50456e-36	1.00000	3.50457e-36	1.00000
rad70	3.42442e-36	1.00000	3.42444e-36	1.00000
rad5	2.25371e-37	1.00000	2.25372e-37	1.00000
rad47	5.08461e-38	1.00000	5.08463e-38	1.00000
rad65	1.59626e-38	1.00000	1.59627e-38	1.00000
PAH10+CH3	1.46052e-39	1.00000	1.46053e-39	1.00000
rad34	2.47774e-40	1.00000	2.47775e-40	1.00000
rad55	1.13369e-40	1.00000	1.13370e-40	1.00000
rad62	7.99158e-41	1.00000	7.99161e-41	1.00000
PhcycC3H3_A+H	2.18506e-41	1.00000	2.18507e-41	1.00000
rad43	5.98347e-43	1.00000	5.98349e-43	1.00000
PAH1+H	1.73959e-44	1.00000	1.73960e-44	1.00000
rad42	1.18872e-47	1.00000	1.18872e-47	1.00000
rad41	2.93546e-50	1.00000	2.93547e-50	1.00000

100000.000 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76114e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.892399	0.892399	0.892404	0.892404
rad21	0.0885771	0.980976	0.0885776	0.980982
rad18	0.0151587	0.996135	0.0151588	0.996140
rad22	0.00351891	0.999654	0.00351893	0.999659
rad45	0.000188890	0.999843	0.000188891	0.999848
Indene+H	0.000136036	0.999979	0.000136036	0.999984
rad36	1.20491e-05	0.999991	1.20491e-05	0.999996
Benzyl+C2H2	5.58139e-06	0.999996	0.00000	0.999996
rad11	2.18462e-06	0.999998	2.18463e-06	0.999998
rad24	7.13933e-07	0.999999	7.13937e-07	0.999999
rad23	4.76663e-07	1.000000	4.76665e-07	1.000000
rad6	4.64311e-10	1.000000	4.64314e-10	1.000000
rad30	1.15451e-12	1.000000	1.15452e-12	1.000000
rad15	9.83897e-14	1.000000	9.83902e-14	1.000000
rad8	1.25587e-15	1.000000	1.25587e-15	1.000000
rad25	1.08765e-15	1.000000	1.08765e-15	1.000000
rad13	4.61350e-16	1.000000	4.61353e-16	1.000000
rad7	1.57622e-16	1.000000	1.57623e-16	1.000000
rad38	3.42686e-17	1.000000	3.42688e-17	1.000000
PhCHCCH2+H	3.34239e-17	1.000000	3.34241e-17	1.000000
rad9	3.84592e-18	1.000000	3.84595e-18	1.000000
rad33	1.77500e-18	1.000000	1.77501e-18	1.000000
rad60syn	8.51443e-19	1.000000	8.51448e-19	1.000000
rad28	4.37674e-19	1.000000	4.37676e-19	1.000000
Ph+Allene	4.31475e-19	1.000000	4.31477e-19	1.000000
rad60anti	1.97726e-19	1.000000	1.97727e-19	1.000000
rad46	6.94287e-20	1.000000	6.94291e-20	1.000000
PAH9+H	6.73699e-20	1.000000	6.73703e-20	1.000000
rad35	4.51426e-20	1.000000	4.51429e-20	1.000000
PhCH2CCH+H	3.78692e-20	1.000000	3.78694e-20	1.000000
rad3	1.15748e-20	1.000000	1.15749e-20	1.000000
rad4	6.15964e-21	1.000000	6.15967e-21	1.000000
PAH7+H	2.94278e-21	1.000000	2.94280e-21	1.000000
PAH3+H	3.26730e-22	1.000000	3.26732e-22	1.000000
rad59	1.15510e-22	1.000000	1.15510e-22	1.000000
rad26	2.26317e-23	1.000000	2.26318e-23	1.000000
rad2	4.71793e-24	1.000000	4.71796e-24	1.000000
rad1	3.47213e-25	1.000000	3.47215e-25	1.000000
PhCCH+CH3	1.00067e-25	1.000000	1.00068e-25	1.000000
rad50	3.94369e-26	1.000000	3.94371e-26	1.000000
rad14	3.99615e-27	1.000000	3.99617e-27	1.000000
rad10	7.25902e-28	1.000000	7.25906e-28	1.000000
rad39	3.29579e-28	1.000000	3.29581e-28	1.000000
Ph+MeAc	1.67810e-28	1.000000	1.67811e-28	1.000000
rad31	8.99752e-30	1.000000	8.99757e-30	1.000000
rad52	2.84485e-30	1.000000	2.84487e-30	1.000000
PhCCCH3+H	1.55343e-30	1.000000	1.55344e-30	1.000000
rad27	9.94381e-31	1.000000	9.94387e-31	1.000000
rad12	5.57274e-31	1.000000	5.57277e-31	1.000000
rad37	3.40421e-32	1.000000	3.40423e-32	1.000000
rad51	2.53539e-32	1.000000	2.53541e-32	1.000000
rad58	3.65435e-33	1.000000	3.65437e-33	1.000000

rad70	3.61253e-34	1.000000	3.61255e-34	1.000000
rad19syn	3.21834e-34	1.000000	3.21835e-34	1.000000
rad54	1.20904e-34	1.000000	1.20905e-34	1.000000
rad5	4.37006e-36	1.000000	4.37008e-36	1.000000
rad47	2.66709e-36	1.000000	2.66711e-36	1.000000
rad65	7.26802e-37	1.000000	7.26806e-37	1.000000
PAH10+CH3	6.81072e-38	1.000000	6.81076e-38	1.000000
rad34	3.94638e-38	1.000000	3.94640e-38	1.000000
rad55	1.24822e-38	1.000000	1.24823e-38	1.000000
rad62	4.67739e-39	1.000000	4.67742e-39	1.000000
PhcycC3H3_A+H	2.49650e-39	1.000000	2.49652e-39	1.000000
rad43	3.28368e-41	1.000000	3.28370e-41	1.000000
PAH1+H	2.32405e-42	1.000000	2.32406e-42	1.000000
rad42	1.74120e-45	1.000000	1.74120e-45	1.000000
rad41	4.31978e-48	1.000000	4.31980e-48	1.000000

100000.000 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.30956e-27 (1.00)	8.30949e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.882022	0.882022	0.882029	0.882029
rad21	0.0963147	0.978337	0.0963154	0.978344
rad18	0.0168633	0.995200	0.0168635	0.995208
rad22	0.00435320	0.999553	0.00435324	0.999561
rad45	0.000243905	0.999797	0.000243907	0.999805
Indene+H	0.000174454	0.999972	0.000174456	0.999980
rad36	1.55865e-05	0.999987	1.55866e-05	0.999995
Benzyl+C2H2	8.20134e-06	0.999995	0.000000	0.999995
rad11	3.12215e-06	0.999998	3.12218e-06	0.999998
rad24	7.40454e-07	0.999999	7.40460e-07	0.999999
rad23	7.04657e-07	1.000000	7.04663e-07	1.000000
rad6	8.64805e-10	1.000000	8.64812e-10	1.000000
rad30	2.37455e-12	1.000000	2.37457e-12	1.000000
rad15	2.27597e-13	1.000000	2.27598e-13	1.000000
rad8	4.88053e-15	1.000000	4.88057e-15	1.000000
rad25	2.97671e-15	1.000000	2.97674e-15	1.000000
rad13	1.10120e-15	1.000000	1.10121e-15	1.000000
rad7	4.06733e-16	1.000000	4.06736e-16	1.000000
PhCHCCH2+H	1.24052e-16	1.000000	1.24053e-16	1.000000
rad38	8.49550e-17	1.000000	8.49557e-17	1.000000
rad9	1.83675e-17	1.000000	1.83677e-17	1.000000
rad33	4.28443e-18	1.000000	4.28446e-18	1.000000
rad60syn	3.62866e-18	1.000000	3.62869e-18	1.000000
Ph+Allene	2.26203e-18	1.000000	2.26205e-18	1.000000
rad28	1.88803e-18	1.000000	1.88804e-18	1.000000
rad60anti	9.02475e-19	1.000000	9.02482e-19	1.000000
PhCH2CCH+H	2.78766e-19	1.000000	2.78768e-19	1.000000
rad46	2.31952e-19	1.000000	2.31953e-19	1.000000
PAH9+H	1.96367e-19	1.000000	1.96369e-19	1.000000
rad35	1.30510e-19	1.000000	1.30511e-19	1.000000
rad3	4.17460e-20	1.000000	4.17463e-20	1.000000
rad4	2.22441e-20	1.000000	2.22443e-20	1.000000
PAH7+H	1.58681e-20	1.000000	1.58683e-20	1.000000
PAH3+H	2.43732e-21	1.000000	2.43734e-21	1.000000
rad59	8.36990e-22	1.000000	8.36997e-22	1.000000
rad26	1.49719e-22	1.000000	1.49721e-22	1.000000
rad2	2.48847e-23	1.000000	2.48849e-23	1.000000
rad1	1.84145e-24	1.000000	1.84146e-24	1.000000
PhCCH+CH3	7.13099e-25	1.000000	7.13105e-25	1.000000
rad50	3.15527e-25	1.000000	3.15529e-25	1.000000
rad14	2.53657e-26	1.000000	2.53659e-26	1.000000
rad10	5.62036e-27	1.000000	5.62041e-27	1.000000
rad39	2.32144e-27	1.000000	2.32146e-27	1.000000
Ph+MeAc	1.56049e-27	1.000000	1.56050e-27	1.000000
rad52	3.64536e-29	1.000000	3.64539e-29	1.000000
rad31	3.47217e-29	1.000000	3.47220e-29	1.000000
PhCCCH3+H	1.56717e-29	1.000000	1.56718e-29	1.000000
rad27	8.22204e-30	1.000000	8.22211e-30	1.000000
rad12	4.93265e-30	1.000000	4.93269e-30	1.000000
rad51	5.05766e-31	1.000000	5.05770e-31	1.000000
rad58	3.62805e-31	1.000000	3.62808e-31	1.000000
rad37	3.36917e-31	1.000000	3.36920e-31	1.000000
rad70	2.11916e-32	1.000000	2.11918e-32	1.000000
rad19syn	5.90218e-33	1.000000	5.90223e-33	1.000000
rad54	2.57569e-33	1.000000	2.57571e-33	1.000000
rad47	9.81244e-35	1.000000	9.81252e-35	1.000000

rad5	6.98566e-35	1.000000	6.98572e-35	1.000000
rad65	2.24720e-35	1.000000	2.24722e-35	1.000000
rad34	5.02256e-36	1.000000	5.02260e-36	1.000000
PAH10+CH3	1.80315e-36	1.000000	1.80316e-36	1.000000
rad55	8.09991e-37	1.000000	8.09997e-37	1.000000
PhcycC3H3_A+H	1.82602e-37	1.000000	1.82604e-37	1.000000
rad62	1.77334e-37	1.000000	1.77336e-37	1.000000
rad43	1.24392e-39	1.000000	1.24393e-39	1.000000
PAH1+H	3.08793e-40	1.000000	3.08796e-40	1.000000
rad42	1.78969e-43	1.000000	1.78970e-43	1.000000
rad41	4.30765e-46	1.000000	4.30768e-46	1.000000

100000.000 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.40057e-26 (1.00)	3.40053e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.870828	0.870828	0.870839	0.870839
rad21	0.104468	0.975296	0.104469	0.975308
rad18	0.0187518	0.994048	0.0187520	0.994060
rad22	0.00537501	0.999423	0.00537508	0.999435
rad45	0.000314489	0.999737	0.000314493	0.999750
Indene+H	0.000224092	0.999961	0.000224094	0.999975
rad36	2.01435e-05	0.999982	2.01437e-05	0.999994
Benzyl+C2H2	1.19574e-05	0.999993	0.000000	0.999994
rad11	4.44644e-06	0.999998	4.44649e-06	0.999998
rad23	1.04102e-06	0.999999	1.04103e-06	0.999999
rad24	7.68315e-07	1.000000	7.68324e-07	1.000000
rad6	1.59762e-09	1.000000	1.59763e-09	1.000000
rad30	4.75829e-12	1.000000	4.75834e-12	1.000000
rad15	5.06025e-13	1.000000	5.06031e-13	1.000000
rad8	1.69747e-14	1.000000	1.69749e-14	1.000000
rad25	7.79883e-15	1.000000	7.79892e-15	1.000000
rad13	2.56841e-15	1.000000	2.56844e-15	1.000000
rad7	1.03257e-15	1.000000	1.03258e-15	1.000000
PhCHCCH2+H	4.27547e-16	1.000000	4.27552e-16	1.000000
rad38	2.05477e-16	1.000000	2.05479e-16	1.000000
rad9	7.93134e-17	1.000000	7.93144e-17	1.000000
rad60syn	1.38733e-17	1.000000	1.38734e-17	1.000000
Ph+Allene	1.05717e-17	1.000000	1.05718e-17	1.000000
rad33	1.00124e-17	1.000000	1.00125e-17	1.000000
rad28	7.28459e-18	1.000000	7.28467e-18	1.000000
rad60anti	3.66541e-18	1.000000	3.66546e-18	1.000000
PhCH2CCH+H	1.73494e-18	1.000000	1.73496e-18	1.000000
rad46	7.31888e-19	1.000000	7.31897e-19	1.000000
PAH9+H	5.60153e-19	1.000000	5.60160e-19	1.000000
rad35	3.78342e-19	1.000000	3.78347e-19	1.000000
rad3	1.44207e-19	1.000000	1.44208e-19	1.000000
rad4	7.69610e-20	1.000000	7.69619e-20	1.000000
PAH7+H	7.48512e-20	1.000000	7.48521e-20	1.000000
PAH3+H	1.54430e-20	1.000000	1.54432e-20	1.000000
rad59	5.15750e-21	1.000000	5.15756e-21	1.000000
rad26	8.46873e-22	1.000000	8.46883e-22	1.000000
rad2	1.23251e-22	1.000000	1.23253e-22	1.000000
rad1	9.17909e-24	1.000000	9.17920e-24	1.000000
PhCCH+CH3	4.64078e-24	1.000000	4.64084e-24	1.000000
rad50	2.18201e-24	1.000000	2.18203e-24	1.000000
rad14	1.48241e-25	1.000000	1.48243e-25	1.000000
rad10	3.87815e-26	1.000000	3.87820e-26	1.000000
rad39	1.45444e-26	1.000000	1.45446e-26	1.000000
Ph+MeAc	1.28375e-26	1.000000	1.28377e-26	1.000000
rad52	3.83673e-28	1.000000	3.83678e-28	1.000000
PhCCCH3+H	1.42252e-28	1.000000	1.42253e-28	1.000000
rad31	1.29196e-28	1.000000	1.29198e-28	1.000000
rad27	6.14984e-29	1.000000	6.14991e-29	1.000000
rad12	3.74968e-29	1.000000	3.74973e-29	1.000000
rad58	1.00442e-29	1.000000	1.00443e-29	1.000000
rad51	7.58212e-30	1.000000	7.58221e-30	1.000000
rad37	2.84460e-30	1.000000	2.84463e-30	1.000000
rad70	5.26194e-31	1.000000	5.26201e-31	1.000000
rad19syn	8.32756e-32	1.000000	8.32766e-32	1.000000
rad54	3.91623e-32	1.000000	3.91628e-32	1.000000
rad47	2.39294e-33	1.000000	2.39297e-33	1.000000
rad5	9.38547e-34	1.000000	9.38558e-34	1.000000
rad65	4.62239e-34	1.000000	4.62245e-34	1.000000
rad34	2.68762e-34	1.000000	2.68766e-34	1.000000
PAH10+CH3	3.11465e-35	1.000000	3.11468e-35	1.000000

rad55	2.24126e-35	1.000000	2.24129e-35	1.00000
PhcycC3H3_A+H	5.90976e-36	1.000000	5.90983e-36	1.00000
rad62	4.28790e-36	1.000000	4.28795e-36	1.00000
rad43	3.15541e-38	1.000000	3.15545e-38	1.00000
PAH1+H	1.85493e-38	1.000000	1.85495e-38	1.00000
rad42	9.20497e-42	1.000000	9.20508e-42	1.00000
rad41	2.20164e-44	1.000000	2.20166e-44	1.00000

100000.000 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22969e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.858788	0.858788	0.858803	0.858803
rad21	0.113005	0.971793	0.113007	0.971810
rad18	0.0208409	0.992634	0.0208412	0.992651
rad22	0.00662109	0.999255	0.00662121	0.999272
rad45	0.000404630	0.999660	0.000404637	0.999677
Indene+H	0.000288224	0.999948	0.000288229	0.999965
rad36	2.59908e-05	0.999974	2.59912e-05	0.999991
Benzyl+C2H2	1.72931e-05	0.999991	0.00000	0.999991
rad11	6.30286e-06	0.999997	6.30297e-06	0.999998
rad23	1.53546e-06	0.999999	1.53549e-06	0.999999
rad24	7.97358e-07	1.000000	7.97372e-07	1.000000
rad6	2.92178e-09	1.000000	2.92183e-09	1.000000
rad30	9.30698e-12	1.000000	9.30714e-12	1.000000
rad15	1.08563e-12	1.000000	1.08565e-12	1.000000
rad8	5.36005e-14	1.000000	5.36015e-14	1.000000
rad25	1.96089e-14	1.000000	1.96092e-14	1.000000
rad13	5.83929e-15	1.000000	5.83939e-15	1.000000
rad7	2.57292e-15	1.000000	2.57296e-15	1.000000
PhCHCCH2+H	1.37832e-15	1.000000	1.37834e-15	1.000000
rad38	4.85242e-16	1.000000	4.85250e-16	1.000000
rad9	3.11218e-16	1.000000	3.11223e-16	1.000000
rad60syn	4.82335e-17	1.000000	4.82343e-17	1.000000
Ph+Allene	4.46339e-17	1.000000	4.46346e-17	1.000000
rad28	2.54818e-17	1.000000	2.54822e-17	1.000000
rad33	2.26269e-17	1.000000	2.26273e-17	1.000000
rad60anti	1.34432e-17	1.000000	1.34434e-17	1.000000
PhCH2CCH+H	9.32355e-18	1.000000	9.32371e-18	1.000000
rad46	2.19485e-18	1.000000	2.19489e-18	1.000000
PAH9+H	1.56319e-18	1.000000	1.56322e-18	1.000000
rad35	1.09979e-18	1.000000	1.09981e-18	1.000000
rad3	4.76752e-19	1.000000	4.76761e-19	1.000000
PAH7+H	3.14030e-19	1.000000	3.14036e-19	1.000000
rad4	2.54915e-19	1.000000	2.54919e-19	1.000000
PAH3+H	8.48232e-20	1.000000	8.48246e-20	1.000000
rad59	2.75820e-20	1.000000	2.75825e-20	1.000000
rad26	4.17705e-21	1.000000	4.17712e-21	1.000000
rad2	5.73970e-22	1.000000	5.73980e-22	1.000000
rad1	4.30618e-23	1.000000	4.30626e-23	1.000000
PhCCH+CH3	2.77525e-23	1.000000	2.77530e-23	1.000000
rad50	1.33017e-23	1.000000	1.33019e-23	1.000000
rad14	8.00585e-25	1.000000	8.00599e-25	1.000000
rad10	2.41366e-25	1.000000	2.41370e-25	1.000000
Ph+MeAc	9.47945e-26	1.000000	9.47962e-26	1.000000
rad39	8.21912e-26	1.000000	8.21926e-26	1.000000
rad52	3.42642e-27	1.000000	3.42648e-27	1.000000
PhCCCH3+H	1.17828e-27	1.000000	1.17830e-27	1.000000
rad31	4.63371e-28	1.000000	4.63379e-28	1.000000
rad27	4.18198e-28	1.000000	4.18205e-28	1.000000
rad12	2.49821e-28	1.000000	2.49826e-28	1.000000
rad58	2.01839e-28	1.000000	2.01843e-28	1.000000
rad51	9.36557e-29	1.000000	9.36573e-29	1.000000
rad37	2.09874e-29	1.000000	2.09877e-29	1.000000
rad70	1.05412e-29	1.000000	1.05414e-29	1.000000
rad19syn	1.01119e-30	1.000000	1.01121e-30	1.000000
rad54	5.01249e-31	1.000000	5.01258e-31	1.000000
rad47	4.56965e-32	1.000000	4.56973e-32	1.000000
rad34	1.64952e-32	1.000000	1.64955e-32	1.000000
rad5	1.12927e-32	1.000000	1.12929e-32	1.000000
rad65	7.82476e-33	1.000000	7.82489e-33	1.000000
rad55	5.34738e-34	1.000000	5.34747e-34	1.000000
PAH10+CH3	4.70464e-34	1.000000	4.70472e-34	1.000000
PhcycC3H3_A+H	1.79818e-34	1.000000	1.79821e-34	1.000000
rad62	9.42048e-35	1.000000	9.42064e-35	1.000000
PAH1+H	1.14746e-36	1.000000	1.14748e-36	1.000000

rad43	7.34268e-37	1.000000	7.34281e-37	1.000000
rad42	5.40570e-40	1.000000	5.40580e-40	1.000000
rad41	1.16139e-42	1.000000	1.16141e-42	1.000000

100000.000 Pa, 240.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.99091e-25 (1.00)		3.99081e-25 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

rad20	0.845881	0.845881	0.845902	0.845902
rad21	0.121879	0.967760	0.121882	0.967784
rad18	0.0231471	0.990907	0.0231476	0.990932
rad22	0.00813287	0.999040	0.00813307	0.999065
rad45	0.000519105	0.999559	0.000519118	0.999584
Indene+H	0.000371021	0.999930	0.000371030	0.999955
rad36	3.34572e-05	0.999964	3.34580e-05	0.999988
Benzyl+C2H2	2.48023e-05	0.999988	0.00000	0.999988
rad11	8.88310e-06	0.999997	8.88332e-06	0.999997
rad23	2.25888e-06	0.999999	2.25894e-06	0.999999
rad24	8.27385e-07	1.00000	8.27405e-07	1.00000
rad6	5.28168e-09	1.00000	5.28181e-09	1.00000
rad30	1.77941e-11	1.00000	1.77945e-11	1.00000
rad15	2.25458e-12	1.00000	2.25464e-12	1.00000
rad8	1.55509e-13	1.00000	1.55513e-13	1.00000
rad25	4.74149e-14	1.00000	4.74161e-14	1.00000
rad13	1.29181e-14	1.00000	1.29184e-14	1.00000
rad7	6.28141e-15	1.00000	6.28157e-15	1.00000
PhCHCCH2+H	4.18168e-15	1.00000	4.18179e-15	1.00000
rad38	1.11992e-15	1.00000	1.11995e-15	1.00000
rad9	1.11666e-15	1.00000	1.11669e-15	1.00000
Ph+Allene	1.72148e-16	1.00000	1.72152e-16	1.00000
rad60syn	1.54228e-16	1.00000	1.54232e-16	1.00000
rad28	8.17386e-17	1.00000	8.17406e-17	1.00000
rad33	4.94288e-17	1.00000	4.94300e-17	1.00000
rad60anti	4.50703e-17	1.00000	4.50715e-17	1.00000
PhCH2CCH+H	4.40377e-17	1.00000	4.40388e-17	1.00000
rad46	6.29012e-18	1.00000	6.29027e-18	1.00000
PAH9+H	4.26816e-18	1.00000	4.26826e-18	1.00000
rad35	3.19184e-18	1.00000	3.19192e-18	1.00000
rad3	1.50843e-18	1.00000	1.50846e-18	1.00000
PAH7+H	1.18819e-18	1.00000	1.18822e-18	1.00000
rad4	8.08317e-19	1.00000	8.08337e-19	1.00000
PAH3+H	4.10818e-19	1.00000	4.10829e-19	1.00000
rad59	1.30217e-19	1.00000	1.30220e-19	1.00000
rad26	1.82640e-20	1.00000	1.82645e-20	1.00000
rad2	2.51738e-21	1.00000	2.51744e-21	1.00000
rad1	1.90448e-22	1.00000	1.90452e-22	1.00000
PhCCH+CH3	1.53135e-22	1.00000	1.53139e-22	1.00000
rad50	7.27004e-23	1.00000	7.27022e-23	1.00000
rad14	4.00782e-24	1.00000	4.00792e-24	1.00000
rad10	1.36912e-24	1.00000	1.36915e-24	1.00000
Ph+MeAc	6.31326e-25	1.00000	6.31342e-25	1.00000
rad39	4.23568e-25	1.00000	4.23579e-25	1.00000
rad52	2.64809e-26	1.00000	2.64816e-26	1.00000
PhCCCH3+H	8.87474e-27	1.00000	8.87496e-27	1.00000
rad27	2.59060e-27	1.00000	2.59067e-27	1.00000
rad58	2.48323e-27	1.00000	2.48329e-27	1.00000
rad31	1.60260e-27	1.00000	1.60264e-27	1.00000
rad12	1.47691e-27	1.00000	1.47695e-27	1.00000
rad51	9.55226e-28	1.00000	9.55250e-28	1.00000
rad70	1.37894e-28	1.00000	1.37898e-28	1.00000
rad37	1.36467e-28	1.00000	1.36470e-28	1.00000
rad19syn	1.00947e-29	1.00000	1.00949e-29	1.00000
rad54	5.10583e-30	1.00000	5.10595e-30	1.00000
rad47	5.97014e-31	1.00000	5.97028e-31	1.00000
rad34	3.73003e-31	1.00000	3.73013e-31	1.00000
rad5	1.16803e-31	1.00000	1.16805e-31	1.00000
rad65	1.00677e-31	1.00000	1.00680e-31	1.00000
rad55	8.02985e-33	1.00000	8.03005e-33	1.00000
PAH10+CH3	5.41944e-33	1.00000	5.41957e-33	1.00000
PhcycC3H3_A+H	3.25591e-33	1.00000	3.25599e-33	1.00000
rad62	1.46874e-33	1.00000	1.46878e-33	1.00000
PAH1+H	2.71442e-35	1.00000	2.71448e-35	1.00000
rad43	1.21953e-35	1.00000	1.21956e-35	1.00000
rad42	1.64054e-38	1.00000	1.64058e-38	1.00000
rad41	3.30762e-41	1.00000	3.30770e-41	1.00000

100000.000 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17759e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.832098	0.832098	0.832128	0.832128
rad21	0.131023	0.963121	0.131028	0.963156
rad18	0.0256863	0.988807	0.0256872	0.988843
rad22	0.00995627	0.998764	0.00995662	0.998800
rad45	0.000663550	0.999427	0.000663573	0.999463
Indene+H	0.000477749	0.999905	0.000477765	0.999941
rad36	4.29372e-05	0.999948	4.29387e-05	0.999984
Benzyl+C2H2	3.52709e-05	0.999983	0.00000	0.999984
rad11	1.24360e-05	0.999996	1.24365e-05	0.999997
rad23	3.31147e-06	0.999999	3.31159e-06	1.000000
rad24	8.58161e-07	1.000000	8.58191e-07	1.000000
rad6	9.42568e-09	1.000000	9.42601e-09	1.000000
rad30	3.32915e-11	1.000000	3.32927e-11	1.000000
rad15	4.54380e-12	1.000000	4.54396e-12	1.000000
rad8	4.18711e-13	1.000000	4.18726e-13	1.000000
rad25	1.10456e-13	1.000000	1.10460e-13	1.000000
rad13	2.77778e-14	1.000000	2.77788e-14	1.000000
rad7	1.50059e-14	1.000000	1.50064e-14	1.000000
PhCHCCH2+H	1.20017e-14	1.000000	1.20021e-14	1.000000
rad9	3.68854e-15	1.000000	3.68867e-15	1.000000
rad38	2.52898e-15	1.000000	2.52907e-15	1.000000
Ph+Allene	6.12281e-16	1.000000	6.12303e-16	1.000000
rad60syn	4.57843e-16	1.000000	4.57859e-16	1.000000
rad28	2.42754e-16	1.000000	2.42763e-16	1.000000
PhCH2CCH+H	1.85587e-16	1.000000	1.85593e-16	1.000000
rad60anti	1.39552e-16	1.000000	1.39557e-16	1.000000
rad33	1.04397e-16	1.000000	1.04401e-16	1.000000
rad46	1.73118e-17	1.000000	1.73124e-17	1.000000
PAH9+H	1.14096e-17	1.000000	1.14100e-17	1.000000
rad35	9.17967e-18	1.000000	9.18000e-18	1.000000
rad3	4.56989e-18	1.000000	4.57006e-18	1.000000
PAH7+H	4.10249e-18	1.000000	4.10263e-18	1.000000
rad4	2.45506e-18	1.000000	2.45514e-18	1.000000
PAH3+H	1.77990e-18	1.000000	1.77996e-18	1.000000
rad59	5.50556e-19	1.000000	5.50575e-19	1.000000
rad26	7.17888e-20	1.000000	7.17913e-20	1.000000
rad2	1.04198e-20	1.000000	1.04201e-20	1.000000
rad1	7.95708e-22	1.000000	7.95736e-22	1.000000
PhCCH+CH3	7.82981e-22	1.000000	7.83009e-22	1.000000
rad50	3.61693e-22	1.000000	3.61705e-22	1.000000
rad14	1.86594e-23	1.000000	1.86600e-23	1.000000
rad10	7.15035e-24	1.000000	7.15060e-24	1.000000
Ph+MeAc	3.81516e-24	1.000000	3.81530e-24	1.000000
rad39	2.01195e-24	1.000000	2.01202e-24	1.000000
rad52	1.80978e-25	1.000000	1.80984e-25	1.000000
PhCCCH3+H	6.07289e-26	1.000000	6.07310e-26	1.000000
rad58	2.21114e-26	1.000000	2.21122e-26	1.000000
rad27	1.46714e-26	1.000000	1.46719e-26	1.000000
rad51	8.34167e-27	1.000000	8.34196e-27	1.000000
rad12	7.84167e-27	1.000000	7.84195e-27	1.000000
rad31	5.35029e-27	1.000000	5.35048e-27	1.000000
rad70	1.29020e-27	1.000000	1.29025e-27	1.000000
rad37	7.90845e-28	1.000000	7.90873e-28	1.000000
rad19syn	8.31465e-29	1.000000	8.31494e-29	1.000000
rad54	4.21734e-29	1.000000	4.21749e-29	1.000000
rad47	6.22344e-30	1.000000	6.22366e-30	1.000000
rad34	3.99095e-30	1.000000	3.99109e-30	1.000000
rad65	1.03747e-30	1.000000	1.03750e-30	1.000000
rad5	1.02662e-30	1.000000	1.02666e-30	1.000000
rad55	7.95113e-32	1.000000	7.95141e-32	1.000000
PAH10+CH3	4.70285e-32	1.000000	4.70302e-32	1.000000
PhcycC3H3_A+H	3.46392e-32	1.000000	3.46404e-32	1.000000
rad62	1.59401e-32	1.000000	1.59406e-32	1.000000
PAH1+H	2.85828e-34	1.000000	2.85838e-34	1.000000
rad43	1.41297e-34	1.000000	1.41302e-34	1.000000
rad42	2.11900e-37	1.000000	2.11908e-37	1.000000
rad41	4.56034e-40	1.000000	4.56050e-40	1.000000

100000.000 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 3.19452e-24 (1.00) 3.19436e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.817439	0.817439	0.817480	0.817480
rad21	0.140359	0.957798	0.140366	0.957846
rad18	0.0284735	0.986272	0.0284749	0.986321
rad22	0.0121413	0.998413	0.0121419	0.998463
rad45	0.000844510	0.999257	0.000844552	0.999307
Indene+H	0.000615014	0.999872	0.000615045	0.999922
rad36	5.48978e-05	0.999927	5.49006e-05	0.999977
Benzyl+C2H2	4.97274e-05	0.999977	0.00000	0.999977
rad11	1.72798e-05	0.999994	1.72806e-05	0.999995
rad23	4.83351e-06	0.999999	4.83375e-06	0.999999
rad24	8.89426e-07	1.000000	8.89470e-07	1.000000
rad6	1.65906e-08	1.000000	1.65914e-08	1.000000
rad30	6.10052e-11	1.000000	6.10083e-11	1.000000
rad15	8.90494e-12	1.000000	8.90538e-12	1.000000
rad8	1.05515e-12	1.000000	1.05521e-12	1.000000
rad25	2.48286e-13	1.000000	2.48298e-13	1.000000
rad13	5.80242e-14	1.000000	5.80271e-14	1.000000
rad7	3.50473e-14	1.000000	3.50491e-14	1.000000
PhCHCCH2+H	3.27308e-14	1.000000	3.27324e-14	1.000000
rad9	1.12928e-14	1.000000	1.12934e-14	1.000000
rad38	5.59530e-15	1.000000	5.59558e-15	1.000000
Ph+Allene	2.02434e-15	1.000000	2.02444e-15	1.000000
rad60syn	1.27186e-15	1.000000	1.27193e-15	1.000000
PhCH2CCH+H	7.06777e-16	1.000000	7.06812e-16	1.000000
rad28	6.72949e-16	1.000000	6.72983e-16	1.000000
rad60anti	4.02511e-16	1.000000	4.02531e-16	1.000000
rad33	2.13314e-16	1.000000	2.13325e-16	1.000000
rad46	4.59666e-17	1.000000	4.59689e-17	1.000000
PAH9+H	2.98958e-17	1.000000	2.98973e-17	1.000000
rad35	2.59439e-17	1.000000	2.59452e-17	1.000000
rad3	1.32689e-17	1.000000	1.32696e-17	1.000000
PAH7+H	1.30552e-17	1.000000	1.30559e-17	1.000000
rad4	7.14886e-18	1.000000	7.14922e-18	1.000000
PAH3+H	6.98268e-18	1.000000	6.98302e-18	1.000000
rad59	2.11001e-18	1.000000	2.11012e-18	1.000000
rad26	2.56676e-19	1.000000	2.56689e-19	1.000000
rad2	4.07927e-20	1.000000	4.07947e-20	1.000000
PhCCH+CH3	3.72563e-21	1.000000	3.72582e-21	1.000000
rad1	3.14780e-21	1.000000	3.14796e-21	1.000000
rad50	1.66041e-21	1.000000	1.66049e-21	1.000000
rad14	8.10517e-23	1.000000	8.10557e-23	1.000000
rad10	3.47045e-23	1.000000	3.47062e-23	1.000000
Ph+MeAc	2.10820e-23	1.000000	2.10830e-23	1.000000
rad39	8.89989e-24	1.000000	8.90033e-24	1.000000
rad52	1.11400e-24	1.000000	1.11406e-24	1.000000
PhCCCH3+H	3.80187e-25	1.000000	3.80205e-25	1.000000
rad58	1.64176e-25	1.000000	1.64184e-25	1.000000
rad27	7.62949e-26	1.000000	7.62987e-26	1.000000
rad51	6.41908e-26	1.000000	6.41939e-26	1.000000
rad12	3.78018e-26	1.000000	3.78037e-26	1.000000
rad31	1.72661e-26	1.000000	1.72670e-26	1.000000
rad70	1.00596e-26	1.000000	1.00601e-26	1.000000
rad37	4.13456e-27	1.000000	4.13477e-27	1.000000
rad19syn	5.92852e-28	1.000000	5.92882e-28	1.000000
rad54	2.99076e-28	1.000000	2.99091e-28	1.000000
rad47	5.53405e-29	1.000000	5.53432e-29	1.000000
rad34	3.44713e-29	1.000000	3.44730e-29	1.000000
rad65	9.22682e-30	1.000000	9.22727e-30	1.000000
rad5	7.94037e-30	1.000000	7.94077e-30	1.000000
rad55	6.51171e-31	1.000000	6.51203e-31	1.000000
PAH10+CH3	3.46095e-31	1.000000	3.46112e-31	1.000000
PhcycC3H3_A+H	3.01722e-31	1.000000	3.01737e-31	1.000000
rad62	1.44217e-31	1.000000	1.44225e-31	1.000000
PAH1+H	2.43180e-33	1.000000	2.43193e-33	1.000000
rad43	1.36498e-33	1.000000	1.36504e-33	1.000000
rad42	2.20096e-36	1.000000	2.20107e-36	1.000000
rad41	5.07264e-39	1.000000	5.07289e-39	1.000000

100000.000 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.04085e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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rad20	0.801916	0.801916	0.801972	0.801972
rad21	0.149789	0.951705	0.149800	0.951772
rad18	0.0315218	0.983227	0.0315240	0.983296
rad22	0.0147411	0.997968	0.0147421	0.998038
rad45	0.00106946	0.999037	0.00106954	0.999108
Indene+H	0.000791036	0.999828	0.000791091	0.999899
rad36	6.98845e-05	0.999898	6.98894e-05	0.999969
Benzyl+C2H2	6.95010e-05	0.999968	0.00000	0.999969
rad11	2.38144e-05	0.999992	2.38161e-05	0.999992
rad23	7.01960e-06	0.999999	7.02009e-06	0.999999
rad24	9.20901e-07	1.000000	9.20965e-07	1.00000
rad6	2.87821e-08	1.000000	2.87841e-08	1.00000
rad30	1.09568e-10	1.000000	1.09576e-10	1.00000
rad15	1.69991e-11	1.000000	1.70003e-11	1.00000
rad8	2.50648e-12	1.000000	2.50666e-12	1.00000
rad25	5.39258e-13	1.000000	5.39296e-13	1.00000
rad13	1.17725e-13	1.000000	1.17733e-13	1.00000
PhCHCCH2+H	8.51455e-14	1.000000	8.51514e-14	1.00000
rad7	7.99825e-14	1.000000	7.99881e-14	1.00000
rad9	3.22520e-14	1.000000	3.22542e-14	1.00000
rad38	1.21484e-14	1.000000	1.21492e-14	1.00000
Ph+Allene	6.26409e-15	1.000000	6.26453e-15	1.00000
rad60syn	3.32829e-15	1.000000	3.32852e-15	1.00000
PhCH2CCH+H	2.45898e-15	1.000000	2.45915e-15	1.00000
rad28	1.75341e-15	1.000000	1.75353e-15	1.00000
rad60anti	1.08932e-15	1.000000	1.08940e-15	1.00000
rad33	4.22072e-16	1.000000	4.22101e-16	1.00000
rad46	1.18267e-16	1.000000	1.18275e-16	1.00000
PAH9+H	7.69184e-17	1.000000	7.69238e-17	1.00000
rad35	7.15408e-17	1.000000	7.15458e-17	1.00000
PAH7+H	3.86187e-17	1.000000	3.86214e-17	1.00000
rad3	3.69677e-17	1.000000	3.69703e-17	1.00000
PAH3+H	2.50611e-17	1.000000	2.50628e-17	1.00000
rad4	1.99813e-17	1.000000	1.99827e-17	1.00000
rad59	7.40585e-18	1.000000	7.40637e-18	1.00000
rad26	8.43262e-19	1.000000	8.43321e-19	1.00000
rad2	1.51384e-19	1.000000	1.51394e-19	1.00000
PhCCH+CH3	1.65579e-20	1.000000	1.65591e-20	1.00000
rad1	1.18171e-20	1.000000	1.18179e-20	1.00000
rad50	7.12023e-21	1.000000	7.12072e-21	1.00000
rad14	3.29449e-22	1.000000	3.29472e-22	1.00000
rad10	1.57683e-22	1.000000	1.57694e-22	1.00000
Ph+MeAc	1.07130e-22	1.000000	1.07138e-22	1.00000
rad39	3.70300e-23	1.000000	3.70325e-23	1.00000
rad52	6.27067e-24	1.000000	6.27111e-24	1.00000
PhCCCH3+H	2.18587e-24	1.000000	2.18602e-24	1.00000
rad58	1.04928e-24	1.000000	1.04935e-24	1.00000
rad51	4.42839e-25	1.000000	4.42869e-25	1.00000
rad27	3.65765e-25	1.000000	3.65790e-25	1.00000
rad12	1.66897e-25	1.000000	1.66909e-25	1.00000
rad70	6.74839e-26	1.000000	6.74886e-26	1.00000
rad31	5.39522e-26	1.000000	5.39560e-26	1.00000
rad37	1.96764e-26	1.000000	1.96778e-26	1.00000
rad19syn	3.72259e-27	1.000000	3.72285e-27	1.00000
rad54	1.85744e-27	1.000000	1.85757e-27	1.00000
rad47	4.30150e-28	1.000000	4.30180e-28	1.00000
rad34	2.53696e-28	1.000000	2.53713e-28	1.00000
rad65	7.24932e-29	1.000000	7.24982e-29	1.00000
rad5	5.46966e-29	1.000000	5.47004e-29	1.00000
rad55	4.57904e-30	1.000000	4.57936e-30	1.00000
PhcycC3H3_A+H	2.24826e-30	1.000000	2.24841e-30	1.00000
PAH10+CH3	2.21958e-30	1.000000	2.21974e-30	1.00000
rad62	1.12348e-30	1.000000	1.12356e-30	1.00000
PAH1+H	1.76962e-32	1.000000	1.76975e-32	1.00000
rad43	1.13472e-32	1.000000	1.13480e-32	1.00000
rad42	1.94079e-35	1.000000	1.94092e-35	1.00000
rad41	4.78208e-38	1.000000	4.78241e-38	1.00000

100000.000 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89339e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.785549	0.785549	0.785625	0.785625
rad21	0.159206	0.944755	0.159221	0.944846
rad18	0.0348422	0.979597	0.0348456	0.979692
rad22	0.0178115	0.997409	0.0178132	0.997505

rad45	0.00134680	0.998756	0.00134693	0.998852
Indene+H	0.00101594	0.999771	0.00101604	0.999868
Benzyl+C2H2	9.62908e-05	0.999868	0.000000	0.999868
rad36	8.85249e-05	0.999956	8.85335e-05	0.999956
rad11	3.25353e-05	0.999989	3.25385e-05	0.999989
rad23	1.01373e-05	0.999999	1.01383e-05	0.999999
rad24	9.52299e-07	1.000000	9.52390e-07	1.000000
rad6	4.91915e-08	1.000000	4.91963e-08	1.000000
rad30	1.92991e-10	1.000000	1.93009e-10	1.000000
rad15	3.16520e-11	1.000000	3.16550e-11	1.000000
rad8	5.64685e-12	1.000000	5.64739e-12	1.000000
rad25	1.13308e-12	1.000000	1.13319e-12	1.000000
rad13	2.32039e-13	1.000000	2.32061e-13	1.000000
PhCHCCH2+H	2.11989e-13	1.000000	2.12009e-13	1.000000
rad7	1.78297e-13	1.000000	1.78314e-13	1.000000
rad9	8.64386e-14	1.000000	8.64469e-14	1.000000
rad38	2.59330e-14	1.000000	2.59355e-14	1.000000
Ph+Allene	1.82477e-14	1.000000	1.82494e-14	1.000000
rad60syn	8.25082e-15	1.000000	8.25162e-15	1.000000
PhCH2CCH+H	7.88869e-15	1.000000	7.88945e-15	1.000000
rad28	4.31970e-15	1.000000	4.32012e-15	1.000000
rad60anti	2.78318e-15	1.000000	2.78344e-15	1.000000
rad33	8.09636e-16	1.000000	8.09714e-16	1.000000
rad46	2.96142e-16	1.000000	2.96170e-16	1.000000
PAH9+H	1.94799e-16	1.000000	1.94818e-16	1.000000
rad35	1.91535e-16	1.000000	1.91554e-16	1.000000
PAH7+H	1.06970e-16	1.000000	1.06981e-16	1.000000
rad3	9.89565e-17	1.000000	9.89660e-17	1.000000
PAH3+H	8.30087e-17	1.000000	8.30167e-17	1.000000
rad4	5.36791e-17	1.000000	5.36843e-17	1.000000
rad59	2.40135e-17	1.000000	2.40158e-17	1.000000
rad26	2.56768e-18	1.000000	2.56792e-18	1.000000
rad2	5.33593e-19	1.000000	5.33644e-19	1.000000
PhCCH+CH3	6.89199e-20	1.000000	6.89265e-20	1.000000
rad1	4.21829e-20	1.000000	4.21870e-20	1.000000
rad50	2.88378e-20	1.000000	2.88406e-20	1.000000
rad14	1.25630e-21	1.000000	1.25642e-21	1.000000
rad10	6.73988e-22	1.000000	6.74053e-22	1.000000
Ph+MeAc	5.02507e-22	1.000000	5.02555e-22	1.000000
rad39	1.46322e-22	1.000000	1.46336e-22	1.000000
rad52	3.26793e-23	1.000000	3.26824e-23	1.000000
PhCCCH3+H	1.15604e-23	1.000000	1.15615e-23	1.000000
rad58	5.83742e-24	1.000000	5.83798e-24	1.000000
rad51	2.77276e-24	1.000000	2.77303e-24	1.000000
rad27	1.62196e-24	1.000000	1.62211e-24	1.000000
rad12	6.79372e-25	1.000000	6.79437e-25	1.000000
rad70	3.93607e-25	1.000000	3.93645e-25	1.000000
rad31	1.63541e-25	1.000000	1.63557e-25	1.000000
rad37	8.57802e-26	1.000000	8.57885e-26	1.000000
rad19syn	2.07385e-26	1.000000	2.07405e-26	1.000000
rad54	1.01943e-26	1.000000	1.01953e-26	1.000000
rad47	2.96876e-27	1.000000	2.96905e-27	1.000000
rad34	1.60192e-27	1.000000	1.60208e-27	1.000000
rad65	5.09757e-28	1.000000	5.09806e-28	1.000000
rad5	3.37232e-28	1.000000	3.37264e-28	1.000000
rad55	2.78986e-29	1.000000	2.79012e-29	1.000000
PhcycC3H3_A+H	1.44431e-29	1.000000	1.44445e-29	1.000000
PAH10+CH3	1.25058e-29	1.000000	1.25070e-29	1.000000
rad62	7.60749e-30	1.000000	7.60822e-30	1.000000
PAH1+H	1.10752e-31	1.000000	1.10763e-31	1.000000
rad43	8.19679e-32	1.000000	8.19758e-32	1.000000
rad42	1.46379e-34	1.000000	1.46393e-34	1.000000
rad41	3.85659e-37	1.000000	3.85696e-37	1.000000

100000.000 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.19960e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.768369	0.768369	0.768471	0.768471
rad21	0.168488	0.936857	0.168510	0.936981
rad18	0.0384429	0.975300	0.0384480	0.975429
rad22	0.0214090	0.996709	0.0214118	0.996841
rad45	0.00168577	0.998395	0.00168599	0.998527
Indene+H	0.00130210	0.999697	0.00130227	0.999829
Benzyl+C2H2	0.000132242	0.999829	0.000000	0.999829
rad36	0.000111531	0.999941	0.000111546	0.999941

rad11	4.40453e-05	0.999985	4.40512e-05	0.999985
rad23	1.45516e-05	0.999999	1.45536e-05	0.999999
rad24	9.83332e-07	1.00000	9.83462e-07	1.00000
rad6	8.28019e-08	1.00000	8.28129e-08	1.00000
rad30	3.33531e-10	1.00000	3.33575e-10	1.00000
rad15	5.75519e-11	1.00000	5.75595e-11	1.00000
rad8	1.21283e-11	1.00000	1.21299e-11	1.00000
rad25	2.30589e-12	1.00000	2.30619e-12	1.00000
PhCHCCH2+H	5.06626e-13	1.00000	5.06693e-13	1.00000
rad13	4.44517e-13	1.00000	4.44576e-13	1.00000
rad7	3.88195e-13	1.00000	3.88246e-13	1.00000
rad9	2.18581e-13	1.00000	2.18609e-13	1.00000
rad38	5.45497e-14	1.00000	5.45569e-14	1.00000
Ph+Allene	5.02926e-14	1.00000	5.02992e-14	1.00000
PhCH2CCH+H	2.35234e-14	1.00000	2.35265e-14	1.00000
rad60syn	1.94688e-14	1.00000	1.94714e-14	1.00000
rad28	1.01140e-14	1.00000	1.01153e-14	1.00000
rad60anti	6.74824e-15	1.00000	6.74913e-15	1.00000
rad33	1.50761e-15	1.00000	1.50781e-15	1.00000
rad46	7.24916e-16	1.00000	7.25012e-16	1.00000
rad35	4.96641e-16	1.00000	4.96707e-16	1.00000
PAH9+H	4.87156e-16	1.00000	4.87221e-16	1.00000
PAH7+H	2.79209e-16	1.00000	2.79246e-16	1.00000
PAH3+H	2.55644e-16	1.00000	2.55678e-16	1.00000
rad3	2.54863e-16	1.00000	2.54896e-16	1.00000
rad4	1.38800e-16	1.00000	1.38818e-16	1.00000
rad59	7.24705e-17	1.00000	7.24801e-17	1.00000
rad26	7.30051e-18	1.00000	7.30147e-18	1.00000
rad2	1.78951e-18	1.00000	1.78975e-18	1.00000
PhCCH+CH3	2.69287e-19	1.00000	2.69323e-19	1.00000
rad1	1.43436e-19	1.00000	1.43455e-19	1.00000
rad50	1.11377e-19	1.00000	1.11391e-19	1.00000
rad14	4.50493e-21	1.00000	4.50552e-21	1.00000
rad10	2.71902e-21	1.00000	2.71938e-21	1.00000
Ph+MeAc	2.18323e-21	1.00000	2.18352e-21	1.00000
rad39	5.54420e-22	1.00000	5.54493e-22	1.00000
rad52	1.59216e-22	1.00000	1.59237e-22	1.00000
PhCCCH3+H	5.63681e-23	1.00000	5.63756e-23	1.00000
rad58	2.86450e-23	1.00000	2.86488e-23	1.00000
rad51	1.59108e-23	1.00000	1.59129e-23	1.00000
rad27	6.67480e-24	1.00000	6.67568e-24	1.00000
rad12	2.56427e-24	1.00000	2.56461e-24	1.00000
rad70	2.02223e-24	1.00000	2.02250e-24	1.00000
rad31	4.81820e-25	1.00000	4.81884e-25	1.00000
rad37	3.44531e-25	1.00000	3.44577e-25	1.00000
rad19syn	1.03390e-25	1.00000	1.03404e-25	1.00000
rad54	4.99349e-26	1.00000	4.99415e-26	1.00000
rad47	1.84330e-26	1.00000	1.84354e-26	1.00000
rad34	8.81498e-27	1.00000	8.81614e-27	1.00000
rad65	3.24511e-27	1.00000	3.24554e-27	1.00000
rad5	1.87350e-27	1.00000	1.87374e-27	1.00000
rad55	1.49266e-28	1.00000	1.49285e-28	1.00000
PhcycC3H3_A+H	8.11401e-29	1.00000	8.11509e-29	1.00000
PAH10+CH3	6.26147e-29	1.00000	6.26230e-29	1.00000
rad62	4.53594e-29	1.00000	4.53654e-29	1.00000
PAH1+H	6.05911e-31	1.00000	6.05991e-31	1.00000
rad43	5.21187e-31	1.00000	5.21256e-31	1.00000
rad42	9.60003e-34	1.00000	9.60130e-34	1.00000
rad41	2.70384e-36	1.00000	2.70420e-36	1.00000

100000.000 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17681e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.687397	0.687397	0.687743	0.687743
rad21	0.195560	0.882957	0.195659	0.883402
rad18	0.0573864	0.940343	0.0574153	0.940817
rad22	0.0496002	0.989944	0.0496252	0.990443
Indene+H	0.00457962	0.994523	0.00458193	0.995024
rad45	0.00455245	0.999076	0.00455474	0.999579
Benzyl+C2H2	0.000503375	0.999579	0.00000	0.999579
rad36	0.000157201	0.999736	0.000157280	0.999736
rad11	0.000153513	0.999890	0.000153590	0.999890
rad23	0.000107946	0.999998	0.000108000	0.999998
rad24	1.33207e-06	0.999999	1.33274e-06	0.999999
rad6	1.09061e-06	1.00000	1.09116e-06	1.00000

rad30	3.95592e-09	1.00000	3.95791e-09	1.00000
rad9	5.78406e-10	1.00000	5.78697e-10	1.00000
rad15	3.47580e-10	1.00000	3.47755e-10	1.00000
rad25	6.12834e-11	1.00000	6.13143e-11	1.00000
PhCHCCH2+H	3.35758e-11	1.00000	3.35927e-11	1.00000
rad7	2.74189e-11	1.00000	2.74327e-11	1.00000
rad38	2.28904e-11	1.00000	2.29020e-11	1.00000
rad13	9.92520e-12	1.00000	9.93020e-12	1.00000
PAH9+H	5.71573e-12	1.00000	5.71861e-12	1.00000
Ph+Allene	4.29841e-12	1.00000	4.30058e-12	1.00000
rad46	1.57783e-12	1.00000	1.57862e-12	1.00000
rad35	1.47853e-12	1.00000	1.47927e-12	1.00000
PhCH2CCH+H	1.19944e-12	1.00000	1.20004e-12	1.00000
rad60syn	7.60319e-13	1.00000	7.60702e-13	1.00000
rad28	4.28482e-13	1.00000	4.28698e-13	1.00000
rad60anti	2.92565e-13	1.00000	2.92712e-13	1.00000
PAH7+H	4.74857e-14	1.00000	4.75096e-14	1.00000
rad3	4.73383e-14	1.00000	4.73622e-14	1.00000
PAH3+H	3.47906e-14	1.00000	3.48081e-14	1.00000
rad50	2.93256e-14	1.00000	2.93404e-14	1.00000
rad33	2.89795e-14	1.00000	2.89940e-14	1.00000
rad4	2.43905e-14	1.00000	2.44028e-14	1.00000
rad59	7.49551e-15	1.00000	7.49929e-15	1.00000
rad26	3.08518e-15	1.00000	3.08673e-15	1.00000
rad2	3.03935e-15	1.00000	3.04088e-15	1.00000
PhCCH+CH3	2.70219e-15	1.00000	2.70355e-15	1.00000
rad39	1.57321e-15	1.00000	1.57401e-15	1.00000
rad19anti	1.11857e-15	1.00000	1.11914e-15	1.00000
rad52	5.91527e-16	1.00000	5.91825e-16	1.00000
rad51	5.38413e-16	1.00000	5.38684e-16	1.00000
rad1	2.36887e-16	1.00000	2.37006e-16	1.00000
Ph+MeAc	1.43786e-16	1.00000	1.43859e-16	1.00000
rad10	1.08762e-16	1.00000	1.08817e-16	1.00000
rad12	4.51265e-17	1.00000	4.51492e-17	1.00000
PhCCCH3+H	4.06916e-17	1.00000	4.07121e-17	1.00000
rad14	7.19367e-18	1.00000	7.19729e-18	1.00000
rad65	6.32163e-18	1.00000	6.32481e-18	1.00000
rad37	4.33715e-18	1.00000	4.33934e-18	1.00000
rad19syn	8.61886e-19	1.00000	8.62320e-19	1.00000
PAH10+CH3	5.45982e-19	1.00000	5.46257e-19	1.00000
rad70	4.70668e-19	1.00000	4.70905e-19	1.00000
rad58	2.65285e-19	1.00000	2.65418e-19	1.00000
rad67	2.65043e-19	1.00000	2.65176e-19	1.00000
PAH1+H	1.94590e-19	1.00000	1.94688e-19	1.00000
rad54	1.27830e-19	1.00000	1.27895e-19	1.00000
PhcycC3H3_A+H	5.72283e-20	1.00000	5.72571e-20	1.00000
rad34	4.26741e-20	1.00000	4.26956e-20	1.00000
rad27	3.83902e-20	1.00000	3.84095e-20	1.00000
rad73	2.02613e-20	1.00000	2.02715e-20	1.00000
rad47	1.26271e-20	1.00000	1.26335e-20	1.00000
rad71	5.42251e-21	1.00000	5.42524e-21	1.00000
rad55	5.15529e-21	1.00000	5.15788e-21	1.00000
rad5	4.89075e-21	1.00000	4.89321e-21	1.00000
rad62	2.80520e-21	1.00000	2.80661e-21	1.00000
rad64	1.07404e-21	1.00000	1.07458e-21	1.00000
rad43	6.86662e-22	1.00000	6.87007e-22	1.00000
rad31	2.69391e-22	1.00000	2.69526e-22	1.00000
rad53	1.55614e-22	1.00000	1.55693e-22	1.00000
rad68syn	1.06896e-22	1.00000	1.06950e-22	1.00000
rad68anti	7.26963e-23	1.00000	7.27329e-23	1.00000
rad56	4.85442e-23	1.00000	4.85686e-23	1.00000
rad42	4.07392e-23	1.00000	4.07597e-23	1.00000
rad61	3.43677e-23	1.00000	3.43850e-23	1.00000
PAH8+H	2.60984e-23	1.00000	2.61116e-23	1.00000
rad40syn	8.67981e-24	1.00000	8.68418e-24	1.00000
rad41	7.28281e-24	1.00000	7.28648e-24	1.00000
rad40anti	3.28927e-24	1.00000	3.29093e-24	1.00000
rad72	2.93861e-24	1.00000	2.94009e-24	1.00000
rad8	5.82431e-26	1.00000	5.82724e-26	1.00000

100000.000 Pa, 310.000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	2.44453e-22 (1.00)	2.44394e-22 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.731729	0.731729	0.731907	0.731907
rad21	0.186130	0.917859	0.186175	0.918082

rad18	0.0464980	0.964357	0.0465093	0.964591
rad22	0.0304079	0.994765	0.0304153	0.995007
rad45	0.00258908	0.997354	0.00258971	0.997596
Indene+H	0.00212072	0.999475	0.00212124	0.999718
Benzyl+C2H2	0.000242966	0.999718	0.00000	0.999718
rad36	0.000173897	0.999892	0.000173939	0.999891
rad11	7.84483e-05	0.999970	7.84674e-05	0.999970
rad23	2.94185e-05	0.999999	2.94257e-05	0.999999
rad24	1.04323e-06	1.00000	1.04349e-06	1.00000
rad6	2.24022e-07	1.00000	2.24076e-07	1.00000
rad30	9.42514e-10	1.00000	9.42743e-10	1.00000
rad15	1.77859e-10	1.00000	1.77902e-10	1.00000
rad8	4.93216e-11	1.00000	4.93336e-11	1.00000
rad25	8.71210e-12	1.00000	8.71421e-12	1.00000
PhCHCCH2+H	2.58511e-12	1.00000	2.58574e-12	1.00000
rad7	1.71472e-12	1.00000	1.71514e-12	1.00000
rad13	1.50201e-12	1.00000	1.50238e-12	1.00000
rad9	1.19659e-12	1.00000	1.19688e-12	1.00000
Ph+Allene	3.28965e-13	1.00000	3.29045e-13	1.00000
rad38	2.33425e-13	1.00000	2.33482e-13	1.00000
PhCH2CCH+H	1.72484e-13	1.00000	1.72526e-13	1.00000
rad60syn	9.49622e-14	1.00000	9.49853e-14	1.00000
rad28	4.84242e-14	1.00000	4.84360e-14	1.00000
rad60anti	3.44948e-14	1.00000	3.45032e-14	1.00000
rad33	4.80791e-15	1.00000	4.80908e-15	1.00000
rad46	4.13379e-15	1.00000	4.13479e-15	1.00000
rad35	3.03526e-15	1.00000	3.03600e-15	1.00000
PAH9+H	2.98236e-15	1.00000	2.98309e-15	1.00000
PAH3+H	1.99770e-15	1.00000	1.99818e-15	1.00000
PAH7+H	1.62601e-15	1.00000	1.62640e-15	1.00000
rad3	1.51399e-15	1.00000	1.51436e-15	1.00000
rad4	8.32046e-16	1.00000	8.32249e-16	1.00000
rad59	5.45418e-16	1.00000	5.45551e-16	1.00000
rad26	4.92647e-17	1.00000	4.92767e-17	1.00000
rad2	1.74342e-17	1.00000	1.74384e-17	1.00000
PhCCH+CH3	3.42667e-18	1.00000	3.42750e-18	1.00000
rad50	1.48168e-18	1.00000	1.48204e-18	1.00000
rad1	1.44165e-18	1.00000	1.44200e-18	1.00000
rad14	4.85710e-20	1.00000	4.85828e-20	1.00000
rad10	3.74765e-20	1.00000	3.74856e-20	1.00000
Ph+MeAc	3.31606e-20	1.00000	3.31687e-20	1.00000
rad39	7.26040e-21	1.00000	7.26217e-21	1.00000
rad52	3.16120e-21	1.00000	3.16196e-21	1.00000
PhCCCH3+H	1.06166e-21	1.00000	1.06191e-21	1.00000
rad58	4.94818e-22	1.00000	4.94938e-22	1.00000
rad51	4.12851e-22	1.00000	4.12951e-22	1.00000
rad27	9.14950e-23	1.00000	9.15172e-23	1.00000
rad70	3.81233e-23	1.00000	3.81326e-23	1.00000
rad12	2.96885e-23	1.00000	2.96957e-23	1.00000
rad37	4.43446e-24	1.00000	4.43553e-24	1.00000
rad31	3.86911e-24	1.00000	3.87005e-24	1.00000
rad19syn	1.89921e-24	1.00000	1.89967e-24	1.00000
rad54	8.81538e-25	1.00000	8.81752e-25	1.00000
rad47	5.35955e-25	1.00000	5.36085e-25	1.00000
rad34	1.85878e-25	1.00000	1.85923e-25	1.00000
rad65	1.00466e-25	1.00000	1.00491e-25	1.00000
rad5	4.34162e-26	1.00000	4.34267e-26	1.00000
rad55	3.02737e-27	1.00000	3.02810e-27	1.00000
PhcycC3H3_A+H	1.79584e-27	1.00000	1.79627e-27	1.00000
rad62	1.15064e-27	1.00000	1.15092e-27	1.00000
PAH10+CH3	1.14752e-27	1.00000	1.14780e-27	1.00000
rad43	1.50127e-29	1.00000	1.50163e-29	1.00000
PAH1+H	1.27872e-29	1.00000	1.27904e-29	1.00000
rad42	2.86258e-32	1.00000	2.86328e-32	1.00000
rad41	9.19558e-35	1.00000	9.19782e-35	1.00000

100000.000 Pa, 400.000000 K

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

Total | 3.60269e-20 (1.00) | 3.58501e-20 (1.00)

species | PYtrue | Cumul | PYeffective | Cumul

rad20 | 0.466012 | 0.466012 | 0.468310 | 0.468310
rad21 | 0.210172 | 0.676184 | 0.211208 | 0.679518
rad22 | 0.158118 | 0.834302 | 0.158898 | 0.838416
rad18 | 0.107830 | 0.942132 | 0.108361 | 0.946777
Indene+H | 0.0307148 | 0.972847 | 0.0308663 | 0.977643
rad45 | 0.0177214 | 0.990568 | 0.0178088 | 0.995452

Benzyl+C2H2	0.00490731	0.995476	0.00000	0.995452
rad23	0.00272491	0.998200	0.00273835	0.998190
rad11	0.00107837	0.999279	0.00108369	0.999274
rad36	0.000685440	0.999964	0.000688820	0.999963
rad6	3.48727e-05	0.999999	3.50447e-05	0.999998
rad24	1.94257e-06	1.00000	1.95215e-06	1.000000
PAH9+H	1.70630e-07	1.00000	1.71471e-07	1.00000
rad30	1.23637e-07	1.00000	1.24247e-07	1.00000
rad38	1.05065e-07	1.00000	1.05583e-07	1.00000
rad9	3.77735e-08	1.00000	3.79598e-08	1.00000
rad35	3.37259e-08	1.00000	3.38922e-08	1.00000
rad46	1.82982e-08	1.00000	1.83884e-08	1.00000
PhCHCCH2+H	1.27096e-08	1.00000	1.27722e-08	1.00000
Ph+Allene	1.08728e-08	1.00000	1.09265e-08	1.00000
PhCH2CCH+H	7.56292e-09	1.00000	7.60021e-09	1.00000
rad15	6.49534e-09	1.00000	6.52737e-09	1.00000
rad7	4.00656e-09	1.00000	4.02632e-09	1.00000
PAH7+H	3.80566e-09	1.00000	3.82443e-09	1.00000
rad25	3.16638e-09	1.00000	3.18200e-09	1.00000
rad28	3.07449e-09	1.00000	3.08966e-09	1.00000
rad50	2.95944e-09	1.00000	2.97404e-09	1.00000
PhCCH+CH3	7.75586e-10	1.00000	7.79411e-10	1.00000
rad39	7.54371e-10	1.00000	7.58091e-10	1.00000
rad13	4.27552e-10	1.00000	4.29661e-10	1.00000
rad51	2.62620e-10	1.00000	2.63915e-10	1.00000
Ph+MeAc	1.50483e-10	1.00000	1.51225e-10	1.00000
rad52	1.40916e-10	1.00000	1.41611e-10	1.00000
rad60syn	9.43132e-11	1.00000	9.47783e-11	1.00000
rad19anti	9.42767e-11	1.00000	9.47416e-11	1.00000
PAH3+H	9.16184e-11	1.00000	9.20702e-11	1.00000
rad26	8.21376e-11	1.00000	8.25426e-11	1.00000
PhCCCH3+H	4.60455e-11	1.00000	4.62726e-11	1.00000
rad60anti	4.30302e-11	1.00000	4.32424e-11	1.00000
rad2	2.69738e-11	1.00000	2.71068e-11	1.00000
rad3	1.35802e-11	1.00000	1.36472e-11	1.00000
rad59	1.21232e-11	1.00000	1.21830e-11	1.00000
rad37	1.10166e-11	1.00000	1.10710e-11	1.00000
rad4	7.37456e-12	1.00000	7.41093e-12	1.00000
rad10	7.07018e-12	1.00000	7.10504e-12	1.00000
rad65	6.83536e-12	1.00000	6.86907e-12	1.00000
PAH10+CH3	5.48758e-12	1.00000	5.51464e-12	1.00000
rad19syn	2.63033e-12	1.00000	2.64330e-12	1.00000
rad1	2.58181e-12	1.00000	2.59454e-12	1.00000
PAH1+H	2.21376e-12	1.00000	2.22468e-12	1.00000
rad33	1.14068e-12	1.00000	1.14630e-12	1.00000
rad54	9.32638e-13	1.00000	9.37237e-13	1.00000
rad67	8.61049e-13	1.00000	8.65296e-13	1.00000
PhcycC3H3_A+H	8.00850e-13	1.00000	8.04799e-13	1.00000
rad70	5.83826e-13	1.00000	5.86705e-13	1.00000
rad73	3.84501e-13	1.00000	3.86397e-13	1.00000
rad58	2.48148e-13	1.00000	2.49372e-13	1.00000
rad71	2.47273e-13	1.00000	2.48492e-13	1.00000
rad34	9.65590e-14	1.00000	9.70352e-14	1.00000
rad55	5.27204e-14	1.00000	5.29804e-14	1.00000
rad64	2.37629e-14	1.00000	2.38800e-14	1.00000
rad62	1.68185e-14	1.00000	1.69015e-14	1.00000
rad14	7.16510e-15	1.00000	7.20044e-15	1.00000
rad53	5.11572e-15	1.00000	5.14095e-15	1.00000
rad43	4.42339e-15	1.00000	4.44520e-15	1.00000
rad12	3.79630e-15	1.00000	3.81503e-15	1.00000
rad56	3.04711e-15	1.00000	3.06214e-15	1.00000
rad61	2.06283e-15	1.00000	2.07301e-15	1.00000
PAH8+H	1.79526e-15	1.00000	1.80411e-15	1.00000
rad68syn	1.73222e-15	1.00000	1.74076e-15	1.00000
rad72	1.41341e-15	1.00000	1.42038e-15	1.00000
rad68anti	1.14928e-15	1.00000	1.15494e-15	1.00000
rad42	6.34060e-16	1.00000	6.37186e-16	1.00000
rad5	5.84382e-16	1.00000	5.87264e-16	1.00000
rad27	4.60607e-16	1.00000	4.62878e-16	1.00000
rad47	3.67721e-16	1.00000	3.69534e-16	1.00000
rad40syn	3.35838e-16	1.00000	3.37494e-16	1.00000
rad40anti	1.65025e-16	1.00000	1.65839e-16	1.00000
rad41	1.26273e-16	1.00000	1.26896e-16	1.00000
rad31	1.07088e-18	1.00000	1.07616e-18	1.00000
rad8	8.12747e-24	1.00000	8.16755e-24	1.00000

100000.000 Pa, 500.000000 K

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

Total | 1.22595e-18 (1.00) 1.19538e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.288200	0.288200	0.295572	0.295572
rad20	0.253569	0.541769	0.260056	0.555628
rad21	0.143329	0.685098	0.146996	0.702624
rad18	0.124234	0.809332	0.127412	0.830036
Indene+H	0.117730	0.927062	0.120742	0.950778
rad45	0.0273267	0.954389	0.0280258	0.978804
Benzyl+C2H2	0.0249417	0.979330	0.000000	0.978804
rad23	0.0151686	0.994499	0.0155566	0.994360
rad11	0.00363532	0.998134	0.00372831	0.998089
rad36	0.00127882	0.999413	0.00131154	0.999400
rad6	0.000448749	0.999862	0.000460228	0.999860
PAH9+H	5.72788e-05	0.999919	5.87440e-05	0.999919
rad38	2.68188e-05	0.999946	2.75048e-05	0.999947
rad35	9.61387e-06	0.999956	9.85979e-06	0.999957
Ph+Allene	8.77236e-06	0.999964	8.99676e-06	0.999966
rad46	7.00338e-06	0.999971	7.18252e-06	0.999973
PhCH2CCH+H	5.99580e-06	0.999977	6.14917e-06	0.999979
PhCHCCH2+H	4.72465e-06	0.999982	4.84551e-06	0.999984
PAH7+H	4.05836e-06	0.999986	4.16217e-06	0.999988
rad50	3.23810e-06	0.999989	3.32093e-06	0.999991
rad24	3.08840e-06	0.999992	3.16740e-06	0.999994
rad30	1.51658e-06	0.999994	1.55537e-06	0.999996
rad39	1.22398e-06	0.999995	1.25529e-06	0.999997
rad9	9.22723e-07	0.999996	9.46325e-07	0.999998
PhCCH+CH3	7.20731e-07	0.999997	7.39167e-07	0.999999
rad51	6.10104e-07	0.999997	6.25710e-07	1.000000
rad52	2.26287e-07	0.999998	2.32075e-07	1.000000
rad28	2.08907e-07	0.999998	2.14251e-07	1.000000
Ph+MeAc	1.82045e-07	0.999998	1.86702e-07	1.000000
rad19anti	1.66946e-07	0.999998	1.71216e-07	1.000000
rad7	1.63602e-07	0.999998	1.67787e-07	1.000000
PAH3+H	1.03110e-07	0.999999	1.05748e-07	1.000000
PhCCCH3+H	4.71642e-08	0.999999	4.83707e-08	1.000000
rad25	3.84043e-08	0.999999	3.93867e-08	1.000000
rad15	3.36131e-08	0.999999	3.44729e-08	1.000000
PAH10+CH3	3.22720e-08	0.999999	3.30975e-08	1.000000
rad37	2.59426e-08	0.999999	2.66062e-08	1.000000
rad65	1.68254e-08	0.999999	1.72558e-08	1.000000
PAH1+H	1.40834e-08	0.999999	1.44436e-08	1.000000
rad60syn	1.35953e-08	0.999999	1.39431e-08	1.000000
rad59	1.09665e-08	0.999999	1.12471e-08	1.000000
rad60anti	7.96249e-09	0.999999	8.16617e-09	1.000000
rad19syn	7.86727e-09	0.999999	8.06851e-09	1.000000
rad26	7.01864e-09	0.999999	7.19817e-09	1.000000
rad13	6.24880e-09	0.999999	6.40864e-09	1.000000
rad71	6.23180e-09	0.999999	6.39121e-09	1.000000
rad73	5.73809e-09	0.999999	5.88487e-09	1.000000
rad67	4.74241e-09	0.999999	4.86372e-09	1.000000
PhcycC3H3_A+H	3.71990e-09	0.999999	3.81506e-09	1.000000
rad54	3.08234e-09	0.999999	3.16119e-09	1.000000
rad2	2.85315e-09	0.999999	2.92613e-09	1.000000
rad70	2.04475e-09	0.999999	2.09705e-09	1.000000
rad3	8.03993e-10	0.999999	8.24559e-10	1.000000
rad10	7.26378e-10	0.999999	7.44958e-10	1.000000
rad58	7.08485e-10	0.999999	7.26607e-10	1.000000
rad34	4.67143e-10	0.999999	4.79092e-10	1.000000
rad4	4.64018e-10	0.999999	4.75887e-10	1.000000
rad1	3.48396e-10	0.999999	3.57308e-10	1.000000
rad64	2.21320e-10	0.999999	2.26982e-10	1.000000
rad55	2.05226e-10	0.999999	2.10475e-10	1.000000
rad72	1.27695e-10	0.999999	1.30962e-10	1.000000
rad62	9.03545e-11	0.999999	9.26658e-11	1.000000
PAH8+H	6.08632e-11	0.999999	6.24200e-11	1.000000
rad53	3.80800e-11	0.999999	3.90541e-11	1.000000
rad61	3.76907e-11	0.999999	3.86548e-11	1.000000
rad56	3.25539e-11	0.999999	3.33866e-11	1.000000
rad68syn	2.49206e-11	0.999999	2.55581e-11	1.000000
rad43	2.02709e-11	0.999999	2.07894e-11	1.000000
rad33	1.76505e-11	0.999999	1.81020e-11	1.000000
rad68anti	1.62930e-11	0.999999	1.67098e-11	1.000000
rad40syn	8.03098e-12	0.999999	8.23641e-12	1.000000
rad42	6.34762e-12	0.999999	6.50999e-12	1.000000
rad40anti	4.57529e-12	0.999999	4.69233e-12	1.000000
rad47	2.42458e-12	0.999999	2.48660e-12	1.000000
rad41	1.24320e-12	0.999999	1.27500e-12	1.000000
rad14	5.22881e-13	0.999999	5.36256e-13	1.000000

rad12	1.94605e-13	0.999999	1.99583e-13	1.00000
rad5	6.60940e-14	0.999999	6.77847e-14	1.00000
rad27	4.47433e-14	0.999999	4.58878e-14	1.00000
rad31	2.36872e-15	0.999999	2.42931e-15	1.00000
rad8	1.91321e-21	0.999999	1.96215e-21	1.00000

100000.000 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.36947e-17 (1.00)	1.26556e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.330404	0.330404	0.357531	0.357531
Indene+H	0.266095	0.596499	0.287942	0.645473
rad20	0.115572	0.712071	0.125061	0.770534
rad18	0.0867063	0.798777	0.0938251	0.864359
Benzyl+C2H2	0.0758740	0.874651	0.00000	0.864359
rad21	0.0730212	0.947673	0.0790164	0.943375
rad23	0.0203036	0.967976	0.0219705	0.965346
rad45	0.0195511	0.987527	0.0211563	0.986502
rad11	0.00649779	0.994025	0.00703128	0.993534
rad6	0.00245678	0.996482	0.00265849	0.996192
rad36	0.00115454	0.997636	0.00124933	0.997441
PAH9+H	0.000889309	0.998526	0.000962324	0.998404
rad38	0.000422479	0.998948	0.000457166	0.998861
Ph+Allene	0.000172349	0.999120	0.000186499	0.999047
rad46	0.000136985	0.999257	0.000148232	0.999196
rad35	0.000133025	0.999390	0.000143946	0.999340
PhCH2CCH+H	0.000131354	0.999522	0.000142138	0.999482
PAH7+H	0.000123350	0.999645	0.000133477	0.999615
rad50	0.000114727	0.999760	0.000124146	0.999739
PhCHCCH2+H	9.24311e-05	0.999852	0.000100020	0.999839
rad39	4.99518e-05	0.999902	5.40530e-05	0.999893
rad51	3.20089e-05	0.999934	3.46370e-05	0.999928
PhCCH+CH3	1.01451e-05	0.999944	1.09780e-05	0.999939
rad52	9.73059e-06	0.999954	1.05295e-05	0.999950
rad30	9.27822e-06	0.999963	1.00400e-05	0.999960
rad24	6.33134e-06	0.999970	6.85117e-06	0.999966
rad9	5.51715e-06	0.999975	5.97013e-06	0.999972
rad19anti	4.89757e-06	0.999980	5.29968e-06	0.999978
Ph+MeAc	3.84506e-06	0.999984	4.16075e-06	0.999982
PAH3+H	3.70941e-06	0.999988	4.01396e-06	0.999986
PAH10+CH3	2.19946e-06	0.999990	2.38004e-06	0.999988
rad7	1.64889e-06	0.999992	1.78427e-06	0.999990
PAH1+H	1.08127e-06	0.999993	1.17004e-06	0.999991
PhCCCH3+H	1.05704e-06	0.999994	1.14383e-06	0.999992
rad37	1.02177e-06	0.999995	1.10566e-06	0.999993
rad71	9.34792e-07	0.999996	1.01154e-06	0.999994
rad65	8.49619e-07	0.999997	9.19376e-07	0.999995
rad73	6.97380e-07	0.999997	7.54637e-07	0.999996
rad28	4.84753e-07	0.999998	5.24553e-07	0.999997
rad59	3.54070e-07	0.999998	3.83141e-07	0.999997
rad60syn	3.05748e-07	0.999998	3.30851e-07	0.999997
rad67	2.85031e-07	0.999999	3.08433e-07	0.999998
rad19syn	2.46623e-07	0.999999	2.66871e-07	0.999998
rad60anti	1.88320e-07	0.999999	2.03781e-07	0.999998
PhcycC3H3_A+H	1.56252e-07	0.999999	1.69081e-07	0.999998
rad25	1.48105e-07	0.999999	1.60265e-07	0.999998
rad70	1.35981e-07	1.000000	1.47145e-07	0.999999
rad54	1.00411e-07	1.000000	1.08655e-07	0.999999
rad15	7.20269e-08	1.000000	7.79406e-08	0.999999
rad58	3.92265e-08	1.000000	4.24471e-08	0.999999
rad13	3.84197e-08	1.000000	4.15741e-08	0.999999
rad34	3.67165e-08	1.000000	3.97310e-08	0.999999
rad72	2.89432e-08	1.000000	3.13196e-08	0.999999
rad64	2.01353e-08	1.000000	2.17885e-08	0.999999
rad26	1.63360e-08	1.000000	1.76772e-08	0.999999
rad2	1.12347e-08	1.000000	1.21571e-08	0.999999
PAH8+H	1.07159e-08	1.000000	1.15957e-08	0.999999
rad62	7.49502e-09	1.000000	8.11038e-09	0.999999
rad55	7.49004e-09	1.000000	8.10500e-09	0.999999
rad3	6.32286e-09	1.000000	6.84199e-09	0.999999
rad61	4.44768e-09	1.000000	4.81285e-09	0.999999
rad4	3.92132e-09	1.000000	4.24327e-09	0.999999
rad68syn	3.17758e-09	1.000000	3.43847e-09	0.999999
rad56	2.30151e-09	1.000000	2.49047e-09	0.999999
rad53	2.16357e-09	1.000000	2.34121e-09	0.999999
rad68anti	2.06500e-09	1.000000	2.23454e-09	0.999999

rad10	1.83387e-09	1.000000	1.98444e-09	0.999999
rad1	1.68960e-09	1.000000	1.82832e-09	0.999999
rad47	1.59154e-09	1.000000	1.72222e-09	0.999999
rad43	1.57977e-09	1.000000	1.70948e-09	0.999999
rad40syn	1.24750e-09	1.000000	1.34993e-09	0.999999
rad40anti	7.49507e-10	1.000000	8.11045e-10	0.999999
rad42	7.18037e-10	1.000000	7.76991e-10	0.999999
rad33	1.41356e-10	1.000000	1.52962e-10	0.999999
rad41	1.40050e-10	1.000000	1.51548e-10	0.999999
rad12	4.84052e-12	1.000000	5.23794e-12	0.999999
rad14	3.26604e-12	1.000000	3.53419e-12	0.999999
rad31	3.26459e-13	1.000000	3.53263e-13	0.999999
rad5	1.83033e-13	1.000000	1.98061e-13	0.999999
rad27	1.20861e-13	1.000000	1.30784e-13	0.999999
rad8	1.15534e-18	1.000000	1.25019e-18	0.999999

100000.000 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	6.74064e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.390152	0.390152	0.464352	0.464352
rad22	0.263945	0.654097	0.314142	0.778494
Benzyl+C2H2	0.159793	0.813890	0.000000	0.778494
rad20	0.0546332	0.868523	0.0650235	0.843518
rad18	0.0416423	0.910165	0.0495619	0.893079
rad21	0.0372072	0.947373	0.0442834	0.937363
rad23	0.0219179	0.969291	0.0260863	0.963449
rad45	0.00847898	0.977770	0.0100915	0.973541
rad6	0.00707674	0.984846	0.00842261	0.981963
rad11	0.00689524	0.991742	0.00820660	0.990170
PAH9+H	0.00269280	0.994434	0.00320493	0.993375
rad38	0.00130403	0.995738	0.00155203	0.994927
rad36	0.000615543	0.996354	0.000732609	0.995659
Ph+Allene	0.000534590	0.996889	0.000636259	0.996296
PAH7+H	0.000472094	0.997361	0.000561879	0.996858
rad50	0.000464694	0.997825	0.000553071	0.997411
rad46	0.000457189	0.998283	0.000544138	0.997955
PhCH2CCH+H	0.000439101	0.998722	0.000522610	0.998477
rad35	0.000383991	0.999106	0.000457019	0.998934
PhCHCCH2+H	0.000314917	0.999421	0.000374808	0.999309
rad39	0.000211331	0.999632	0.000251522	0.999561
rad51	0.000144369	0.999776	0.000171825	0.999733
rad52	4.15664e-05	0.999818	4.94716e-05	0.999782
rad30	2.73162e-05	0.999845	3.25113e-05	0.999814
PhCCH+CH3	2.61280e-05	0.999871	3.10970e-05	0.999846
rad19anti	1.80557e-05	0.999889	2.14896e-05	0.999867
rad24	1.58746e-05	0.999905	1.88937e-05	0.999886
rad9	1.53744e-05	0.999921	1.82983e-05	0.999904
PAH3+H	1.50644e-05	0.999936	1.79294e-05	0.999922
Ph+MeAc	1.25536e-05	0.999948	1.49410e-05	0.999937
PAH10+CH3	1.04130e-05	0.999959	1.23934e-05	0.999950
rad7	7.26908e-06	0.999966	8.65154e-06	0.999958
rad71	5.35514e-06	0.999971	6.37359e-06	0.999965
PAH1+H	5.33815e-06	0.999977	6.35337e-06	0.999971
rad37	4.12544e-06	0.999981	4.91002e-06	0.999976
rad73	3.82173e-06	0.999984	4.54856e-06	0.999980
rad65	3.77406e-06	0.999988	4.49182e-06	0.999985
PhCCCH3+H	3.63954e-06	0.999992	4.33171e-06	0.999989
rad59	1.39389e-06	0.999993	1.65899e-06	0.999991
rad67	1.29899e-06	0.999995	1.54604e-06	0.999992
rad60syn	1.13294e-06	0.999996	1.34840e-06	0.999994
rad19syn	8.89837e-07	0.999997	1.05907e-06	0.999995
rad60anti	7.01803e-07	0.999997	8.35273e-07	0.999996
rad70	6.58997e-07	0.999998	7.84327e-07	0.999996
PhcycC3H3_A+H	6.24114e-07	0.999999	7.42809e-07	0.999997
rad28	5.59690e-07	0.999999	6.66133e-07	0.999998
rad54	3.63886e-07	1.000000	4.33090e-07	0.999998
rad25	2.76570e-07	1.000000	3.29169e-07	0.999999
rad34	1.85042e-07	1.000000	2.20234e-07	0.999999
rad72	1.79885e-07	1.000000	2.14096e-07	0.999999
rad58	1.78433e-07	1.000000	2.12368e-07	0.999999
rad13	1.43305e-07	1.000000	1.70559e-07	0.999999
rad64	1.03262e-07	1.000000	1.22900e-07	1.000000
rad15	8.93128e-08	1.000000	1.06299e-07	1.000000
PAH8+H	6.38527e-08	1.000000	7.59963e-08	1.000000
rad47	6.30467e-08	1.000000	7.50371e-08	1.000000

rad62	3.86917e-08	1.00000	4.60502e-08	1.000000
rad55	2.83405e-08	1.00000	3.37304e-08	1.000000
rad61	2.40390e-08	1.00000	2.86108e-08	1.000000
rad2	2.28638e-08	1.00000	2.72121e-08	1.000000
rad3	2.12314e-08	1.00000	2.52693e-08	1.000000
rad68syn	1.77576e-08	1.00000	2.11348e-08	1.000000
rad4	1.43078e-08	1.00000	1.70289e-08	1.000000
rad26	1.29201e-08	1.00000	1.53773e-08	1.000000
rad68anti	1.15258e-08	1.00000	1.37178e-08	1.000000
rad56	1.07992e-08	1.00000	1.28530e-08	1.000000
rad53	9.52240e-09	1.00000	1.13334e-08	1.000000
rad43	8.01433e-09	1.00000	9.53852e-09	1.000000
rad40syn	7.25331e-09	1.00000	8.63276e-09	1.000000
rad40anti	4.40343e-09	1.00000	5.24089e-09	1.000000
rad1	4.11585e-09	1.00000	4.89861e-09	1.000000
rad42	3.94818e-09	1.00000	4.69905e-09	1.000000
rad10	2.08330e-09	1.00000	2.47950e-09	1.000000
rad33	9.09406e-10	1.00000	1.08236e-09	1.000000
rad41	7.66876e-10	1.00000	9.12723e-10	1.000000
rad12	1.02009e-10	1.00000	1.21410e-10	1.000000
rad14	1.21362e-11	1.00000	1.44443e-11	1.000000
rad31	4.47715e-12	1.00000	5.32862e-12	1.000000
rad5	2.84211e-13	1.00000	3.38263e-13	1.000000
rad27	2.07560e-13	1.00000	2.47034e-13	1.000000
rad8	1.33505e-15	1.00000	1.58895e-15	1.000000

100000.000 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.12228e-16 (1.00)	2.29666e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.441112	0.441112	0.599685	0.599685
Benzyl+C2H2	0.264427	0.705539	0.000000	0.599685
rad22	0.160997	0.866536	0.218873	0.818558
rad20	0.0348096	0.901346	0.0473231	0.865881
rad21	0.0244637	0.925809	0.0332580	0.899139
rad23	0.0228200	0.948629	0.0310235	0.930163
rad18	0.0173253	0.965955	0.0235534	0.953716
rad6	0.0127021	0.978657	0.0172684	0.970984
rad11	0.00506427	0.983721	0.00688480	0.977869
rad45	0.00466209	0.988383	0.00633805	0.984207
PAH9+H	0.00378953	0.992173	0.00515180	0.989359
rad38	0.00184850	0.994021	0.00251301	0.991872
Ph+Allene	0.000800311	0.994821	0.00108801	0.992960
rad50	0.000716892	0.995538	0.000974604	0.993935
PAH7+H	0.000715590	0.996254	0.000972834	0.994908
PhCH2CCH+H	0.000673816	0.996928	0.000916043	0.995824
rad46	0.000664556	0.997592	0.000903455	0.996727
rad35	0.000532133	0.998124	0.000723426	0.997450
PhCHCCH2+H	0.000519979	0.998644	0.000706903	0.998157
rad36	0.000408421	0.999053	0.000555242	0.998713
rad39	0.000330601	0.999383	0.000449447	0.999162
rad51	0.000229861	0.999613	0.000312493	0.999475
rad52	6.50959e-05	0.999678	8.84969e-05	0.999563
rad30	5.17025e-05	0.999730	7.02888e-05	0.999633
PhCCH+CH3	3.84704e-05	0.999769	5.22999e-05	0.999686
rad24	3.51442e-05	0.999804	4.77781e-05	0.999733
rad9	3.21564e-05	0.999836	4.37162e-05	0.999777
rad19anti	2.90478e-05	0.999865	3.94900e-05	0.999817
PAH3+H	2.36527e-05	0.999889	3.21555e-05	0.999849
Ph+MeAc	1.88504e-05	0.999907	2.56269e-05	0.999874
rad7	1.75991e-05	0.999925	2.39258e-05	0.999898
PAH10+CH3	1.68093e-05	0.999942	2.28520e-05	0.999921
rad71	9.18449e-06	0.999951	1.24862e-05	0.999934
PAH1+H	8.74105e-06	0.999960	1.18833e-05	0.999946
rad73	6.46178e-06	0.999966	8.78469e-06	0.999954
rad37	6.33575e-06	0.999973	8.61336e-06	0.999963
rad65	5.97789e-06	0.999978	8.12686e-06	0.999971
PhCCCH3+H	5.53094e-06	0.999984	7.51923e-06	0.999979
rad59	2.19155e-06	0.999986	2.97937e-06	0.999982
rad67	2.13146e-06	0.999988	2.89769e-06	0.999984
rad60syn	1.90683e-06	0.999990	2.59231e-06	0.999987
rad28	1.77341e-06	0.999992	2.41092e-06	0.999989
rad19syn	1.31897e-06	0.999993	1.79312e-06	0.999991
rad60anti	1.16776e-06	0.999995	1.58755e-06	0.999993
rad70	1.07553e-06	0.999996	1.46216e-06	0.999994
PhcycC3H3_A+H	9.53852e-07	0.999997	1.29675e-06	0.999996

rad54	5.38798e-07	0.999997	7.32488e-07	0.999996
rad13	4.60082e-07	0.999998	6.25474e-07	0.999997
rad25	3.83527e-07	0.999998	5.21400e-07	0.999997
rad72	3.16889e-07	0.999998	4.30805e-07	0.999998
rad34	3.05499e-07	0.999999	4.15321e-07	0.999998
rad58	2.85030e-07	0.999999	3.87494e-07	0.999999
rad47	2.21977e-07	0.999999	3.01774e-07	0.999999
rad64	1.71043e-07	0.999999	2.32530e-07	0.999999
PAH8+H	1.11035e-07	0.999999	1.50951e-07	0.999999
rad15	8.19360e-08	0.999999	1.11391e-07	0.999999
rad62	6.45480e-08	0.999999	8.77520e-08	1.000000
rad3	5.30289e-08	1.000000	7.20921e-08	1.000000
rad2	5.02198e-08	1.000000	6.82730e-08	1.000000
rad55	4.25433e-08	1.000000	5.78370e-08	1.000000
rad61	4.04525e-08	1.000000	5.49946e-08	1.000000
rad4	3.80736e-08	1.000000	5.17606e-08	1.000000
rad68syn	3.02553e-08	1.000000	4.11316e-08	1.000000
rad68anti	1.96301e-08	1.000000	2.66868e-08	1.000000
rad56	1.73693e-08	1.000000	2.36133e-08	1.000000
rad26	1.52285e-08	1.000000	2.07029e-08	1.000000
rad53	1.50072e-08	1.000000	2.04020e-08	1.000000
rad43	1.33285e-08	1.000000	1.81199e-08	1.000000
rad40syn	1.25141e-08	1.000000	1.70128e-08	1.000000
rad1	1.04531e-08	1.000000	1.42108e-08	1.000000
rad40anti	7.62266e-09	1.000000	1.03629e-08	1.000000
rad42	6.70812e-09	1.000000	9.11960e-09	1.000000
rad33	6.31005e-09	1.000000	8.57842e-09	1.000000
rad10	4.04383e-09	1.000000	5.49753e-09	1.000000
rad12	1.85045e-09	1.000000	2.51566e-09	1.000000
rad41	1.30287e-09	1.000000	1.77123e-09	1.000000
rad14	4.78027e-11	1.000000	6.49871e-11	1.000000
rad31	1.98256e-11	1.000000	2.69526e-11	1.000000
rad8	1.16932e-12	1.000000	1.58967e-12	1.000000
rad27	7.45483e-13	1.000000	1.01347e-12	1.000000
rad5	6.46094e-13	1.000000	8.78355e-13	1.000000

100000.000 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.21769e-16 (1.00)	5.76749e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.436887	0.436887	0.698239	0.698239
Benzyl+C2H2	0.374302	0.811189	0.000000	0.698239
rad22	0.0808204	0.892009	0.129168	0.827407
rad20	0.0264319	0.918441	0.0422439	0.869651
rad23	0.0193069	0.937748	0.0308566	0.900508
rad21	0.0178840	0.955632	0.0285825	0.929090
rad6	0.0166511	0.972283	0.0266120	0.955702
rad18	0.00747108	0.979754	0.0119404	0.967642
PAH9+H	0.00414285	0.983897	0.00662116	0.974264
rad45	0.00366319	0.987560	0.00585457	0.980118
rad11	0.00313629	0.990697	0.00501247	0.985131
rad38	0.00202601	0.992723	0.00323800	0.988369
Ph+Allene	0.00110443	0.993827	0.00176512	0.990134
PhCH2CCH+H	0.000925075	0.994752	0.00147847	0.991612
rad50	0.000812059	0.995564	0.00129784	0.992910
PAH7+H	0.000808660	0.996373	0.00129241	0.994202
PhCHCCH2+H	0.000782234	0.997155	0.00125018	0.995453
rad46	0.000735512	0.997891	0.00117551	0.996628
rad35	0.000578744	0.998469	0.000924957	0.997553
rad39	0.000377236	0.998847	0.000602904	0.998156
rad36	0.000345901	0.999193	0.000552825	0.998709
rad51	0.000263595	0.999456	0.000421282	0.999130
rad30	8.12203e-05	0.999537	0.000129808	0.999260
rad52	7.41580e-05	0.999612	0.000118520	0.999378
PhCCH+CH3	6.96564e-05	0.999681	0.000111326	0.999490
rad9	5.42104e-05	0.999735	8.66399e-05	0.999576
rad24	4.52571e-05	0.999781	7.23306e-05	0.999649
rad19anti	4.00974e-05	0.999821	6.40843e-05	0.999713
rad7	2.99104e-05	0.999851	4.78032e-05	0.999761
PAH3+H	2.86876e-05	0.999879	4.58490e-05	0.999806
Ph+MeAc	2.59443e-05	0.999905	4.14646e-05	0.999848
PAH10+CH3	1.94356e-05	0.999925	3.10622e-05	0.999879
rad71	1.08624e-05	0.999936	1.73604e-05	0.999896
PAH1+H	1.01444e-05	0.999946	1.62129e-05	0.999913
rad73	7.59691e-06	0.999953	1.21415e-05	0.999925
PhCCCH3+H	7.26161e-06	0.999961	1.16056e-05	0.999936

rad37	7.18913e-06	0.999968	1.14898e-05	0.999948
rad65	6.84099e-06	0.999975	1.09334e-05	0.999959
rad28	6.34524e-06	0.999981	1.01411e-05	0.999969
rad67	2.80948e-06	0.999984	4.49015e-06	0.999973
rad60syn	2.73506e-06	0.999987	4.37122e-06	0.999978
rad59	2.72985e-06	0.999989	4.36288e-06	0.999982
rad60anti	1.64683e-06	0.999991	2.63198e-06	0.999985
rad13	1.57000e-06	0.999992	2.50919e-06	0.999987
rad19syn	1.53820e-06	0.999994	2.45837e-06	0.999990
rad70	1.25316e-06	0.999995	2.00282e-06	0.999992
PhcycC3H3_A+H	1.09666e-06	0.999996	1.75270e-06	0.999993
rad54	6.23668e-07	0.999997	9.96756e-07	0.999994
rad25	5.03740e-07	0.999997	8.05085e-07	0.999995
rad72	3.79014e-07	0.999998	6.05746e-07	0.999996
rad34	3.56736e-07	0.999998	5.70141e-07	0.999996
rad58	3.30635e-07	0.999999	5.28426e-07	0.999997
rad47	3.07323e-07	0.999999	4.91169e-07	0.999997
rad64	1.99373e-07	0.999999	3.18641e-07	0.999998
PAH8+H	1.32086e-07	0.999999	2.11103e-07	0.999998
rad3	1.28671e-07	0.999999	2.05644e-07	0.999998
rad2	1.23774e-07	0.999999	1.97817e-07	0.999998
rad4	9.78468e-08	1.000000	1.56380e-07	0.999999
rad62	7.63229e-08	1.000000	1.21980e-07	0.999999
rad15	7.35342e-08	1.000000	1.17523e-07	0.999999
rad55	4.89687e-08	1.000000	7.82626e-08	0.999999
rad61	4.75450e-08	1.000000	7.59871e-08	0.999999
rad33	4.44126e-08	1.000000	7.09809e-08	0.999999
rad68syn	3.56969e-08	1.000000	5.70514e-08	0.999999
rad26	3.48236e-08	1.000000	5.56555e-08	0.999999
rad1	2.91498e-08	1.000000	4.65877e-08	0.999999
rad68anti	2.31573e-08	1.000000	3.70103e-08	0.999999
rad56	2.01070e-08	1.000000	3.21354e-08	0.999999
rad12	1.90679e-08	1.000000	3.04746e-08	0.999999
rad53	1.72861e-08	1.000000	2.76269e-08	0.999999
rad43	1.60283e-08	1.000000	2.56166e-08	0.999999
rad40syn	1.48415e-08	1.000000	2.37200e-08	0.999999
rad10	1.09809e-08	1.000000	1.75498e-08	0.999999
rad40anti	9.05394e-09	1.000000	1.44701e-08	0.999999
rad42	7.95945e-09	1.000000	1.27209e-08	0.999999
rad41	1.57056e-09	1.000000	2.51010e-09	0.999999
rad14	2.39303e-10	1.000000	3.82458e-10	0.999999
rad8	2.28916e-10	1.000000	3.65856e-10	0.999999
rad31	6.17873e-11	1.000000	9.87495e-11	0.999999
rad27	5.53598e-12	1.000000	8.84769e-12	0.999999
rad5	1.62022e-12	1.000000	2.58946e-12	0.999999

100000.000 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.23691e-15 (1.00)	1.16731e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.478163	0.478163	0.00000	0.00000
Indene+H	0.398740	0.876903	0.764108	0.764108
rad22	0.0363436	0.913247	0.0696455	0.833754
rad20	0.0192987	0.932545	0.0369822	0.870736
rad6	0.0173328	0.949878	0.0332149	0.903951
rad23	0.0133895	0.963268	0.0256583	0.929609
rad21	0.0118942	0.975162	0.0227929	0.952402
PAH9+H	0.00406238	0.979224	0.00778477	0.960187
rad18	0.00403737	0.983262	0.00773683	0.967923
rad45	0.00320699	0.986469	0.00614558	0.974069
rad11	0.00216755	0.988636	0.00415369	0.978223
rad38	0.00198655	0.990623	0.00380684	0.982030
Ph+Allene	0.00190970	0.992532	0.00365958	0.985689
PhCH2CCH+H	0.00153202	0.994064	0.00293581	0.988625
PhCHCCH2+H	0.00129730	0.995362	0.00248603	0.991111
PAH7+H	0.000821427	0.996183	0.00157411	0.992685
rad50	0.000805364	0.996988	0.00154332	0.994228
rad46	0.000723549	0.997712	0.00138654	0.995615
rad35	0.000567626	0.998280	0.00108775	0.996703
rad39	0.000378458	0.998658	0.000725242	0.997428
rad36	0.000304342	0.998962	0.000583212	0.998011
rad51	0.000262581	0.999225	0.000503186	0.998514
PhCCH+CH3	0.000172114	0.999397	0.000329824	0.998844
rad30	0.000115122	0.999512	0.000220608	0.999065
rad9	7.57440e-05	0.999588	0.000145149	0.999210
rad52	7.36953e-05	0.999662	0.000141223	0.999351

rad19anti	6.00522e-05	0.999722	0.000115078	0.999466
rad7	4.54845e-05	0.999767	8.71623e-05	0.999553
Ph+MeAc	4.37747e-05	0.999811	8.38857e-05	0.999637
rad24	3.82980e-05	0.999849	7.33907e-05	0.999711
PAH3+H	3.52249e-05	0.999885	6.75017e-05	0.999778
PAH10+CH3	1.96543e-05	0.999904	3.76637e-05	0.999816
rad28	1.34349e-05	0.999918	2.57454e-05	0.999842
rad71	1.09478e-05	0.999929	2.09794e-05	0.999863
PhCCCH3+H	1.06512e-05	0.999939	2.04109e-05	0.999883
PAH1+H	1.02052e-05	0.999949	1.95564e-05	0.999902
rad73	7.63945e-06	0.999957	1.46395e-05	0.999917
rad37	7.25505e-06	0.999964	1.39029e-05	0.999931
rad65	6.81085e-06	0.999971	1.30517e-05	0.999944
rad13	5.54111e-06	0.999977	1.06185e-05	0.999955
rad67	4.02009e-06	0.999981	7.70373e-06	0.999962
rad60syn	4.01981e-06	0.999985	7.70319e-06	0.999970
rad59	3.51626e-06	0.999988	6.73824e-06	0.999977
rad60anti	2.39481e-06	0.999991	4.58919e-06	0.999981
rad19syn	2.08761e-06	0.999993	4.00051e-06	0.999985
PhcycC3H3_A+H	1.31375e-06	0.999994	2.51755e-06	0.999988
rad70	1.31123e-06	0.999995	2.51271e-06	0.999990
rad54	8.28283e-07	0.999996	1.58725e-06	0.999992
rad25	6.86681e-07	0.999997	1.31589e-06	0.999993
rad72	3.83626e-07	0.999997	7.35145e-07	0.999994
rad34	3.69313e-07	0.999998	7.07717e-07	0.999995
rad58	3.58295e-07	0.999998	6.86604e-07	0.999995
rad47	3.10811e-07	0.999998	5.95609e-07	0.999996
rad2	2.59564e-07	0.999999	4.97404e-07	0.999997
rad3	2.48940e-07	0.999999	4.77046e-07	0.999997
rad33	2.27543e-07	0.999999	4.36041e-07	0.999997
rad64	2.00566e-07	0.999999	3.84345e-07	0.999998
rad4	1.94689e-07	0.999999	3.73084e-07	0.999998
PAH8+H	1.34777e-07	1.000000	2.58274e-07	0.999999
rad12	1.02636e-07	1.000000	1.96683e-07	0.999999
rad15	8.76635e-08	1.000000	1.67990e-07	0.999999
rad62	8.03125e-08	1.000000	1.53903e-07	0.999999
rad26	7.40741e-08	1.000000	1.41949e-07	0.999999
rad1	6.55723e-08	1.000000	1.25657e-07	0.999999
rad55	6.17359e-08	1.000000	1.18305e-07	0.999999
rad61	4.82736e-08	1.000000	9.25071e-08	0.999999
rad68syn	3.64718e-08	1.000000	6.98911e-08	1.000000
rad10	2.82317e-08	1.000000	5.41005e-08	1.000000
rad68anti	2.36615e-08	1.000000	4.53427e-08	1.000000
rad56	2.18883e-08	1.000000	4.19447e-08	1.000000
rad53	1.93610e-08	1.000000	3.71016e-08	1.000000
rad43	1.77729e-08	1.000000	3.40584e-08	1.000000
rad40syn	1.51561e-08	1.000000	2.90438e-08	1.000000
rad40anti	9.24963e-09	1.000000	1.77251e-08	1.000000
rad42	8.23736e-09	1.000000	1.57853e-08	1.000000
rad8	7.36531e-09	1.000000	1.41142e-08	1.000000
rad41	1.71849e-09	1.000000	3.29315e-09	1.000000
rad14	1.19794e-09	1.000000	2.29562e-09	1.000000
rad31	1.61399e-10	1.000000	3.09291e-10	1.000000
rad27	4.98754e-11	1.000000	9.55765e-11	1.000000
rad5	3.32099e-12	1.000000	6.36403e-12	1.000000

100000.000 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.02861e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.568241	0.568241	0.00000	0.00000
Indene+H	0.348784	0.917025	0.807820	0.807820
rad22	0.0155690	0.932594	0.0360593	0.843879
rad6	0.0149219	0.947516	0.0345606	0.878440
rad20	0.0116470	0.959163	0.0269756	0.905416
rad23	0.00820379	0.967367	0.0190008	0.924416
rad21	0.00656894	0.973936	0.0152144	0.939631
PAH9+H	0.00375947	0.977695	0.00870734	0.948338
Ph+Allene	0.00348630	0.981181	0.00807464	0.956413
rad45	0.00278652	0.983968	0.00645388	0.962867
PhCH2CCH+H	0.00274581	0.986714	0.00635959	0.969226
rad18	0.00273618	0.989450	0.00633728	0.975563
PhCHCCH2+H	0.00211211	0.991562	0.00489188	0.980455
rad11	0.00183847	0.993400	0.00425808	0.984713
rad38	0.00183478	0.995235	0.00424954	0.988963
PAH7+H	0.000811221	0.996046	0.00187887	0.990842

rad50	0.000745099	0.996792	0.00172573	0.992568
rad46	0.000668515	0.997460	0.00154835	0.994116
rad35	0.000527697	0.997988	0.00122220	0.995338
rad39	0.000358485	0.998346	0.000830290	0.996168
PhCCH+CH3	0.000355918	0.998702	0.000824344	0.996993
rad36	0.000263546	0.998966	0.000610401	0.997603
rad51	0.000243138	0.999209	0.000563132	0.998166
rad30	0.000151439	0.999360	0.000350750	0.998517
rad9	0.000107006	0.999467	0.000247838	0.998765
rad19anti	9.40320e-05	0.999561	0.000218020	0.998983
Ph+MeAc	7.57449e-05	0.999637	0.000175433	0.999158
rad7	7.20888e-05	0.999709	0.000166965	0.999325
rad52	6.82044e-05	0.999778	0.000157969	0.999483
PAH3+H	4.99423e-05	0.999827	0.000115672	0.999599
rad24	2.91810e-05	0.999857	6.75864e-05	0.999666
PAH10+CH3	1.88646e-05	0.999875	4.36923e-05	0.999710
rad28	1.78843e-05	0.999893	4.14220e-05	0.999752
PhCCCH3+H	1.60916e-05	0.999909	3.72698e-05	0.999789
rad13	1.54720e-05	0.999925	3.58348e-05	0.999825
rad71	1.01668e-05	0.999935	2.35473e-05	0.999848
PAH1+H	9.67287e-06	0.999945	2.24034e-05	0.999871
rad73	7.09043e-06	0.999952	1.64222e-05	0.999887
rad37	7.02625e-06	0.999959	1.62735e-05	0.999903
rad65	6.31125e-06	0.999965	1.46175e-05	0.999918
rad67	6.29016e-06	0.999971	1.45687e-05	0.999933
rad60syn	6.06066e-06	0.999978	1.40371e-05	0.999947
rad59	5.14091e-06	0.999983	1.19069e-05	0.999958
rad19syn	3.68894e-06	0.999986	8.54397e-06	0.999967
rad60anti	3.61400e-06	0.999990	8.37041e-06	0.999975
PhycC3H3_A+H	2.03895e-06	0.999992	4.72243e-06	0.999980
rad54	1.44473e-06	0.999993	3.34614e-06	0.999983
rad70	1.40662e-06	0.999995	3.25788e-06	0.999987
rad25	8.63852e-07	0.999996	2.00077e-06	0.999989
rad33	6.20479e-07	0.999996	1.43709e-06	0.999990
rad58	4.51414e-07	0.999997	1.04552e-06	0.999991
rad2	4.02911e-07	0.999997	9.33185e-07	0.999992
rad34	3.87667e-07	0.999998	8.97878e-07	0.999993
rad72	3.56638e-07	0.999998	8.26011e-07	0.999994
rad3	3.50147e-07	0.999998	8.10979e-07	0.999995
rad12	2.83171e-07	0.999999	6.55853e-07	0.999995
rad47	2.77017e-07	0.999999	6.41600e-07	0.999996
rad4	2.76588e-07	0.999999	6.40606e-07	0.999997
rad64	1.89313e-07	0.999999	4.38470e-07	0.999997
rad15	1.55752e-07	1.000000	3.60739e-07	0.999997
PAH8+H	1.34337e-07	1.000000	3.11138e-07	0.999998
rad26	1.11873e-07	1.000000	2.59110e-07	0.999998
rad1	1.03895e-07	1.000000	2.40631e-07	0.999998
rad55	1.02502e-07	1.000000	2.37406e-07	0.999998
rad62	8.36510e-08	1.000000	1.93745e-07	0.999999
rad10	6.71888e-08	1.000000	1.55616e-07	0.999999
rad8	5.16237e-08	1.000000	1.19566e-07	0.999999
rad61	4.61850e-08	1.000000	1.06969e-07	0.999999
rad68syn	3.68405e-08	1.000000	8.53264e-08	0.999999
rad56	2.94260e-08	1.000000	6.81536e-08	0.999999
rad53	2.74644e-08	1.000000	6.36104e-08	0.999999
rad68anti	2.39085e-08	1.000000	5.53747e-08	0.999999
rad43	1.98133e-08	1.000000	4.58898e-08	0.999999
rad40syn	1.51873e-08	1.000000	3.51754e-08	0.999999
rad40anti	9.25655e-09	1.000000	2.14391e-08	0.999999
rad42	8.23112e-09	1.000000	1.90641e-08	0.999999
rad14	4.20491e-09	1.000000	9.73901e-09	0.999999
rad41	1.87393e-09	1.000000	4.34023e-09	0.999999
rad31	2.96272e-10	1.000000	6.86197e-10	0.999999
rad27	2.62807e-10	1.000000	6.08689e-10	0.999999
rad5	5.52588e-12	1.000000	1.27985e-11	0.999999

100000.000 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.84330e-15 (1.00)	3.18945e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.639337	0.639337	0.00000	0.00000
Indene+H	0.299634	0.938971	0.830786	0.830786
rad6	0.0108602	0.949831	0.0301118	0.860898
rad22	0.00713771	0.956969	0.0197905	0.880688
rad20	0.00635682	0.963326	0.0176254	0.898314
Ph+Allene	0.00538469	0.968710	0.0149300	0.913244

rad23	0.00478397	0.973494	0.0132644	0.926508
PhCH2CCH+H	0.00408190	0.977576	0.0113178	0.937826
rad21	0.00347902	0.981055	0.00964619	0.947472
PAH9+H	0.00336346	0.984419	0.00932577	0.956798
PhCHCCH2+H	0.00290051	0.987319	0.00804217	0.964840
rad45	0.00237751	0.989697	0.00659206	0.971432
rad18	0.00208749	0.991784	0.00578791	0.977220
rad11	0.00171749	0.993502	0.00476204	0.981982
rad38	0.00163712	0.995139	0.00453918	0.986521
PAH7+H	0.000793210	0.995932	0.00219931	0.988721
rad50	0.000663893	0.996596	0.00184076	0.990561
rad46	0.000596118	0.997192	0.00165284	0.992214
PhCCH+CH3	0.000564306	0.997756	0.00156463	0.993779
rad35	0.000475450	0.998232	0.00131827	0.995097
rad39	0.000330695	0.998563	0.000916909	0.996014
rad36	0.000224519	0.998787	0.000622518	0.996636
rad51	0.000216602	0.999004	0.000600566	0.997237
rad30	0.000186148	0.999190	0.000516127	0.997753
rad9	0.000140500	0.999330	0.000389559	0.998143
rad19anti	0.000125023	0.999455	0.000346648	0.998489
rad7	0.000112909	0.999568	0.000313058	0.998802
Ph+MeAc	0.000111262	0.999680	0.000308493	0.999111
PAH3+H	6.94323e-05	0.999749	0.000192513	0.999303
rad52	6.07634e-05	0.999810	0.000168477	0.999472
rad13	2.62235e-05	0.999836	7.27091e-05	0.999545
rad24	2.28069e-05	0.999859	6.32361e-05	0.999608
PhCCCH3+H	2.11428e-05	0.999880	5.86219e-05	0.999666
PAH10+CH3	1.75792e-05	0.999897	4.87413e-05	0.999715
rad28	1.69895e-05	0.999914	4.71062e-05	0.999762
rad71	9.06055e-06	0.999924	2.51219e-05	0.999787
PAH1+H	8.93885e-06	0.999932	2.47845e-05	0.999812
rad60syn	8.49574e-06	0.999941	2.35559e-05	0.999836
rad67	8.45054e-06	0.999949	2.34305e-05	0.999859
rad59	7.25566e-06	0.999957	2.01175e-05	0.999879
rad37	6.63289e-06	0.999963	1.83908e-05	0.999898
rad73	6.31854e-06	0.999970	1.75192e-05	0.999915
rad19syn	6.22925e-06	0.999976	1.72717e-05	0.999933
rad65	5.62921e-06	0.999981	1.56079e-05	0.999948
rad60anti	5.08415e-06	0.999987	1.40967e-05	0.999962
PhcycC3H3_A+H	3.24256e-06	0.999990	8.99055e-06	0.999971
rad54	2.40910e-06	0.999992	6.67964e-06	0.999978
rad70	1.50069e-06	0.999994	4.16092e-06	0.999982
rad33	9.65614e-07	0.999995	2.67733e-06	0.999985
rad25	9.00546e-07	0.999996	2.49692e-06	0.999987
rad58	5.80814e-07	0.999996	1.61041e-06	0.999989
rad12	4.67469e-07	0.999997	1.29614e-06	0.999990
rad2	4.59165e-07	0.999997	1.27311e-06	0.999991
rad34	4.04751e-07	0.999997	1.12224e-06	0.999993
rad3	3.68107e-07	0.999998	1.02064e-06	0.999994
rad15	3.62939e-07	0.999998	1.00631e-06	0.999995
rad72	3.17872e-07	0.999999	8.81354e-07	0.999995
rad4	2.91955e-07	0.999999	8.09496e-07	0.999996
rad47	2.34077e-07	0.999999	6.49018e-07	0.999997
rad64	1.73685e-07	0.999999	4.81570e-07	0.999997
rad55	1.67021e-07	0.999999	4.63093e-07	0.999998
rad8	1.45589e-07	1.000000	4.03671e-07	0.999998
rad10	1.40044e-07	1.000000	3.88295e-07	0.999999
rad26	1.32997e-07	1.000000	3.68756e-07	0.999999
PAH8+H	1.32698e-07	1.000000	3.67927e-07	0.999999
rad1	1.19132e-07	1.000000	3.30314e-07	1.000000
rad62	8.82913e-08	1.000000	2.44803e-07	1.000000
rad61	4.28217e-08	1.000000	1.18731e-07	1.000000
rad56	4.14416e-08	1.000000	1.14904e-07	1.000000
rad53	4.04186e-08	1.000000	1.12067e-07	1.000000
rad68syn	3.69234e-08	1.000000	1.02376e-07	1.000000
rad68anti	2.39708e-08	1.000000	6.64631e-08	1.000000
rad43	2.12905e-08	1.000000	5.90316e-08	1.000000
rad40syn	1.50839e-08	1.000000	4.18228e-08	1.000000
rad40anti	9.17821e-09	1.000000	2.54481e-08	1.000000
rad14	8.34696e-09	1.000000	2.31434e-08	1.000000
rad42	8.21116e-09	1.000000	2.27668e-08	1.000000
rad41	1.97273e-09	1.000000	5.46974e-09	1.000000
rad27	6.30786e-10	1.000000	1.74896e-09	1.000000
rad31	4.01765e-10	1.000000	1.11396e-09	1.000000
rad5	8.21963e-12	1.000000	2.27903e-11	1.000000

100000.000 Pa, 1300.00000 K

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

Total | 1.52810e-14 (1.00) 4.66614e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.694644	0.694644	0.00000	0.00000
Indene+H	0.255760	0.950404	0.837580	0.837580
rad6	0.00712164	0.957526	0.0233224	0.860902
Ph+Allene	0.00710797	0.964634	0.0232776	0.884180
PhCH2CCH+H	0.00525359	0.969887	0.0172048	0.901385
rad22	0.00394340	0.973831	0.0129141	0.914299
rad20	0.00363465	0.977465	0.0119030	0.926202
PhCHCCH2+H	0.00345676	0.980922	0.0113204	0.937522
PAH9+H	0.00293681	0.983859	0.00961764	0.947140
rad23	0.00292602	0.986785	0.00958232	0.956722
rad21	0.00200315	0.988788	0.00656003	0.963282
rad45	0.00199908	0.990787	0.00654670	0.969829
rad18	0.00151418	0.992301	0.00495872	0.974788
rad11	0.00147109	0.993772	0.00481762	0.979605
rad38	0.00142475	0.995197	0.00466586	0.984271
PAH7+H	0.000755356	0.995952	0.00247369	0.986745
PhCCH+CH3	0.000701006	0.996653	0.00229570	0.989041
rad50	0.000575401	0.997229	0.00188436	0.990925
rad46	0.000517973	0.997747	0.00169629	0.992621
rad35	0.000419255	0.998166	0.00137300	0.993994
rad39	0.000297123	0.998463	0.000973038	0.994967
rad30	0.000219516	0.998683	0.000718885	0.995686
rad36	0.000188847	0.998872	0.000618447	0.996305
rad51	0.000187576	0.999059	0.000614284	0.996919
rad9	0.000171299	0.999230	0.000560981	0.997480
rad7	0.000146034	0.999376	0.000478240	0.997958
rad19anti	0.000145992	0.999522	0.000478103	0.998436
Ph+MeAc	0.000135111	0.999658	0.000442470	0.998879
PAH3+H	9.49179e-05	0.999752	0.000310843	0.999190
rad52	5.26399e-05	0.999805	0.000172388	0.999362
rad13	2.73242e-05	0.999832	8.94830e-05	0.999451
PhCCCH3+H	2.32808e-05	0.999856	7.62413e-05	0.999528
rad24	1.79627e-05	0.999874	5.88254e-05	0.999586
PAH10+CH3	1.58347e-05	0.999890	5.18566e-05	0.999638
rad28	1.29877e-05	0.999903	4.25330e-05	0.999681
rad60syn	1.13840e-05	0.999914	3.72810e-05	0.999718
rad59	9.98285e-06	0.999924	3.26924e-05	0.999751
rad67	9.71840e-06	0.999934	3.18264e-05	0.999783
rad19syn	9.45587e-06	0.999943	3.09667e-05	0.999814
PAH1+H	8.09166e-06	0.999951	2.64991e-05	0.999840
rad71	7.84091e-06	0.999959	2.56779e-05	0.999866
rad60anti	6.84565e-06	0.999966	2.24186e-05	0.999888
rad37	6.06849e-06	0.999972	1.98735e-05	0.999908
rad73	5.46850e-06	0.999977	1.79086e-05	0.999926
PhcycC3H3_A+H	5.00169e-06	0.999982	1.63798e-05	0.999942
rad65	4.87951e-06	0.999987	1.59797e-05	0.999958
rad54	3.57332e-06	0.999991	1.17021e-05	0.999970
rad70	1.54314e-06	0.999992	5.05357e-06	0.999975
rad33	1.03117e-06	0.999993	3.37693e-06	0.999978
rad15	9.32390e-07	0.999994	3.05345e-06	0.999982
rad25	8.13787e-07	0.999995	2.66504e-06	0.999984
rad58	7.50139e-07	0.999996	2.45660e-06	0.999987
rad12	6.03527e-07	0.999997	1.97647e-06	0.999989
rad34	4.07403e-07	0.999997	1.33419e-06	0.999990
rad2	3.87302e-07	0.999997	1.26836e-06	0.999991
rad3	2.93973e-07	0.999998	9.62722e-07	0.999992
rad72	2.75043e-07	0.999998	9.00727e-07	0.999993
rad8	2.53646e-07	0.999998	8.30656e-07	0.999994
rad55	2.47072e-07	0.999998	8.09125e-07	0.999995
rad4	2.33634e-07	0.999999	7.65118e-07	0.999996
rad10	2.18062e-07	0.999999	7.14121e-07	0.999996
rad47	1.91851e-07	0.999999	6.28287e-07	0.999997
rad64	1.55733e-07	0.999999	5.10003e-07	0.999997
rad26	1.43122e-07	0.999999	4.68706e-07	0.999998
PAH8+H	1.25196e-07	0.999999	4.10000e-07	0.999998
rad1	1.00877e-07	1.000000	3.30357e-07	0.999999
rad62	9.26054e-08	1.000000	3.03270e-07	0.999999
rad53	5.68068e-08	1.000000	1.86034e-07	0.999999
rad56	5.61098e-08	1.000000	1.83752e-07	0.999999
rad61	3.82890e-08	1.000000	1.25391e-07	0.999999
rad68syn	3.54837e-08	1.000000	1.16204e-07	0.999999
rad68anti	2.30461e-08	1.000000	7.54726e-08	1.000000
rad43	2.12275e-08	1.000000	6.95173e-08	1.000000
rad40syn	1.43238e-08	1.000000	4.69084e-08	1.000000
rad14	9.93221e-09	1.000000	3.25266e-08	1.000000
rad40anti	8.69387e-09	1.000000	2.84712e-08	1.000000

rad42	8.16468e-09	1.000000	2.67382e-08	1.000000
rad41	1.93294e-09	1.000000	6.33013e-09	1.000000
rad27	8.38407e-10	1.000000	2.74567e-09	1.000000
rad31	4.18620e-10	1.000000	1.37092e-09	1.000000
rad5	1.20191e-11	1.000000	3.93610e-11	1.000000

100000.000 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.46691e-14 (1.00)	6.44195e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.738866	0.738866	0.000000	0.000000
Indene+H	0.217631	0.956497	0.833406	0.833406
Ph+Allene	0.00827492	0.964772	0.0316884	0.865094
PhCH2CCH+H	0.00637750	0.971149	0.0244223	0.889517
rad6	0.00484956	0.975999	0.0185712	0.908088
PhCHCCH2+H	0.00379192	0.979791	0.0145210	0.922609
rad22	0.00266439	0.982455	0.0102031	0.932812
PAH9+H	0.00252207	0.984977	0.00965813	0.942470
rad20	0.00222284	0.987200	0.00851225	0.950982
rad23	0.00208328	0.989283	0.00797783	0.958960
rad45	0.00165305	0.990937	0.00633027	0.965290
rad21	0.00123818	0.992175	0.00474154	0.970032
rad38	0.00121732	0.993392	0.00466167	0.974694
rad11	0.00109070	0.994483	0.00417680	0.978870
rad18	0.000961825	0.995445	0.00368326	0.982554
PhCCH+CH3	0.000724414	0.996169	0.00277411	0.985328
PAH7+H	0.000693640	0.996863	0.00265626	0.987984
rad50	0.000487741	0.997350	0.00186778	0.989852
rad46	0.000441328	0.997792	0.00169004	0.991542
rad35	0.000365269	0.998157	0.00139878	0.992941
rad39	0.000259061	0.998416	0.000992061	0.993933
rad30	0.000249657	0.998666	0.000956049	0.994889
rad9	0.000201395	0.998867	0.000771230	0.995660
rad19anti	0.000167225	0.999034	0.000640379	0.996300
rad51	0.000158693	0.999193	0.000607707	0.996908
rad36	0.000156385	0.999349	0.000598869	0.997507
Ph+MeAc	0.000142499	0.999492	0.000545691	0.998053
rad7	0.000142447	0.999634	0.000545492	0.998598
PAH3+H	0.000128718	0.999763	0.000492920	0.999091
rad52	4.45744e-05	0.999808	0.000170695	0.999262
PhCCCH3+H	2.29794e-05	0.999831	8.79985e-05	0.999350
rad13	2.16644e-05	0.999852	8.29629e-05	0.999433
rad60syn	1.46710e-05	0.999867	5.61818e-05	0.999489
rad24	1.40645e-05	0.999881	5.38593e-05	0.999543
PAH10+CH3	1.39836e-05	0.999895	5.35493e-05	0.999596
rad59	1.34629e-05	0.999908	5.15555e-05	0.999648
rad19syn	1.26561e-05	0.999921	4.84660e-05	0.999696
rad67	1.07459e-05	0.999932	4.11507e-05	0.999738
rad28	9.63487e-06	0.999941	3.68963e-05	0.999774
rad60anti	8.87490e-06	0.999950	3.39860e-05	0.999808
PAH1+H	7.23041e-06	0.999958	2.76885e-05	0.999836
PhcycC3H3_A+H	7.14523e-06	0.999965	2.73623e-05	0.999863
rad71	6.61814e-06	0.999971	2.53438e-05	0.999889
rad37	5.44648e-06	0.999977	2.08570e-05	0.999910
rad54	4.71776e-06	0.999981	1.80664e-05	0.999928
rad73	4.61713e-06	0.999986	1.76810e-05	0.999945
rad65	4.13417e-06	0.999990	1.58316e-05	0.999961
rad15	2.18293e-06	0.999992	8.35944e-06	0.999970
rad70	1.55158e-06	0.999994	5.94169e-06	0.999976
rad58	1.01210e-06	0.999995	3.87579e-06	0.999979
rad33	8.69762e-07	0.999996	3.33071e-06	0.999983
rad12	7.24485e-07	0.999997	2.77438e-06	0.999986
rad25	6.98402e-07	0.999997	2.67450e-06	0.999988
rad34	4.02679e-07	0.999998	1.54204e-06	0.999990
rad8	3.46130e-07	0.999998	1.32549e-06	0.999991
rad55	3.31135e-07	0.999998	1.26806e-06	0.999992
rad2	2.65537e-07	0.999999	1.01686e-06	0.999993
rad10	2.51544e-07	0.999999	9.63274e-07	0.999994
rad72	2.32041e-07	0.999999	8.88589e-07	0.999995
rad3	1.94177e-07	0.999999	7.43589e-07	0.999996
rad26	1.62807e-07	0.999999	6.23463e-07	0.999997
rad4	1.54469e-07	1.000000	5.91533e-07	0.999997
rad47	1.53866e-07	1.000000	5.89223e-07	0.999998
rad64	1.37833e-07	1.000000	5.27823e-07	0.999998
PAH8+H	1.15920e-07	1.000000	4.43911e-07	0.999999
rad62	9.47139e-08	1.000000	3.62702e-07	0.999999

rad53	7.77428e-08	1.00000	2.97712e-07	0.999999
rad56	7.61995e-08	1.00000	2.91802e-07	1.000000
rad1	6.94579e-08	1.00000	2.65986e-07	1.000000
rad68syn	3.35573e-08	1.00000	1.28506e-07	1.000000
rad61	3.34610e-08	1.00000	1.28137e-07	1.000000
rad68anti	2.18051e-08	1.00000	8.35014e-08	1.000000
rad43	2.03793e-08	1.00000	7.80417e-08	1.000000
rad40syn	1.33623e-08	1.00000	5.11703e-08	1.000000
rad14	8.92299e-09	1.00000	3.41702e-08	1.000000
rad42	8.08967e-09	1.00000	3.09790e-08	1.000000
rad40anti	8.08493e-09	1.00000	3.09608e-08	1.000000
rad41	1.83383e-09	1.00000	7.02255e-09	1.000000
rad27	8.08145e-10	1.00000	3.09475e-09	1.000000
rad31	3.62608e-10	1.00000	1.38859e-09	1.000000
rad5	2.00997e-11	1.00000	7.69709e-11	1.000000

100000.000 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.50693e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.774297	0.774297	0.00000	0.00000
Indene+H	0.185301	0.959598	0.820997	0.820997
Ph+Allene	0.00891765	0.968516	0.0395106	0.860508
PhCH2CCH+H	0.00760162	0.976117	0.0336798	0.894187
PhCHCCH2+H	0.00400146	0.980119	0.0177289	0.911916
rad6	0.00371302	0.983832	0.0164509	0.928367
PAH9+H	0.00215380	0.985986	0.00954263	0.937910
rad22	0.00205513	0.988041	0.00910547	0.947015
rad23	0.00179902	0.989840	0.00797075	0.954986
rad20	0.00142076	0.991260	0.00629485	0.961281
rad45	0.00134537	0.992606	0.00596082	0.967242
rad38	0.00103090	0.993637	0.00456751	0.971809
rad21	0.000796608	0.994433	0.00352946	0.975339
rad11	0.000765264	0.995199	0.00339058	0.978729
PhCCH+CH3	0.000678532	0.995877	0.00300631	0.981736
PAH7+H	0.000622301	0.996499	0.00275717	0.984493
rad18	0.000579600	0.997079	0.00256798	0.987061
rad50	0.000407817	0.997487	0.00180688	0.988868
rad46	0.000372198	0.997859	0.00164906	0.990517
rad35	0.000317720	0.998177	0.00140769	0.991924
rad30	0.000272878	0.998450	0.00120902	0.993133
rad9	0.000230299	0.998680	0.00102036	0.994154
rad39	0.000221154	0.998901	0.000979847	0.995134
rad19anti	0.000195158	0.999096	0.000864669	0.995998
PAH3+H	0.000161703	0.999258	0.000716440	0.996715
Ph+MeAc	0.000140327	0.999398	0.000621735	0.997336
rad51	0.000132204	0.999530	0.000585744	0.997922
rad36	0.000127537	0.999658	0.000565064	0.998487
rad7	0.000112412	0.999770	0.000498053	0.998985
rad52	3.71991e-05	0.999808	0.000164815	0.999150
PhCCCH3+H	2.20291e-05	0.999830	9.76022e-05	0.999248
rad60syn	1.77233e-05	0.999847	7.85250e-05	0.999326
rad59	1.68480e-05	0.999864	7.46470e-05	0.999401
rad13	1.51498e-05	0.999879	6.71228e-05	0.999468
rad19syn	1.50908e-05	0.999894	6.68612e-05	0.999535
PAH10+CH3	1.23350e-05	0.999907	5.46517e-05	0.999590
rad67	1.20043e-05	0.999919	5.31862e-05	0.999643
rad24	1.09832e-05	0.999930	4.86623e-05	0.999691
rad60anti	1.07714e-05	0.999941	4.77237e-05	0.999739
PhcycC3H3_A+H	9.10213e-06	0.999950	4.03280e-05	0.999779
rad28	7.86301e-06	0.999958	3.48379e-05	0.999814
PAH1+H	6.46229e-06	0.999964	2.86319e-05	0.999843
rad54	5.74347e-06	0.999970	2.54471e-05	0.999868
rad71	5.48457e-06	0.999975	2.43000e-05	0.999893
rad37	4.88503e-06	0.999980	2.16436e-05	0.999914
rad15	4.16233e-06	0.999984	1.84417e-05	0.999933
rad73	3.82905e-06	0.999988	1.69650e-05	0.999950
rad65	3.45615e-06	0.999992	1.53128e-05	0.999965
rad70	1.53248e-06	0.999993	6.78982e-06	0.999972
rad58	1.25875e-06	0.999994	5.57702e-06	0.999977
rad12	8.53167e-07	0.999995	3.78005e-06	0.999981
rad33	6.49892e-07	0.999996	2.87941e-06	0.999984
rad25	5.86247e-07	0.999996	2.59743e-06	0.999987
rad8	4.20566e-07	0.999997	1.86336e-06	0.999988
rad55	4.12718e-07	0.999997	1.82859e-06	0.999990
rad34	3.91841e-07	0.999998	1.73609e-06	0.999992

rad10	2.53251e-07	0.999998	1.12205e-06	0.999993
rad26	2.09130e-07	0.999998	9.26572e-07	0.999994
rad72	1.92088e-07	0.999998	8.51064e-07	0.999995
rad2	1.67568e-07	0.999998	7.42426e-07	0.999996
rad64	1.22251e-07	0.999999	5.41645e-07	0.999996
rad47	1.21818e-07	0.999999	5.39726e-07	0.999997
rad3	1.17707e-07	0.999999	5.21515e-07	0.999997
PAH8+H	1.05277e-07	0.999999	4.66442e-07	0.999998
rad53	1.03643e-07	0.999999	4.59202e-07	0.999998
rad56	1.03583e-07	0.999999	4.58934e-07	0.999999
rad62	9.54306e-08	0.999999	4.22815e-07	0.999999
rad4	9.36444e-08	0.999999	4.14901e-07	1.000000
rad1	4.40709e-08	0.999999	1.95261e-07	1.000000
rad68syn	3.12306e-08	0.999999	1.38370e-07	1.000000
rad61	2.91139e-08	0.999999	1.28992e-07	1.000000
rad68anti	2.03037e-08	0.999999	8.99578e-08	1.000000
rad43	1.96197e-08	0.999999	8.69270e-08	1.000000
rad40syn	1.22479e-08	1.000000	5.42658e-08	1.000000
rad42	8.09603e-09	1.000000	3.58703e-08	1.000000
rad40anti	7.38532e-09	1.000000	3.27214e-08	1.000000
rad14	7.04506e-09	1.000000	3.12139e-08	1.000000
rad41	1.75310e-09	1.000000	7.76732e-09	1.000000
rad27	6.81935e-10	1.000000	3.02138e-09	1.000000
rad31	2.87672e-10	1.000000	1.27456e-09	1.000000
rad5	4.57523e-11	1.000000	2.02711e-10	1.000000

100000.000 Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	1.50282e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.836402	0.836402	0.000000	0.000000
Indene+H	0.109681	0.946083	0.670428	0.670428
PhCH2CCH+H	0.0132550	0.959338	0.0810214	0.751449
Ph+Allene	0.0106673	0.970005	0.0652042	0.816654
PhCHCCH2+H	0.00629592	0.976301	0.0384841	0.855138
rad50	0.00258492	0.978886	0.0158004	0.870938
PAH9+H	0.00247881	0.981365	0.0151518	0.886090
rad39	0.00210915	0.983474	0.0128922	0.898982
rad51	0.00203484	0.985509	0.0124380	0.911420
rad38	0.00193235	0.987441	0.0118115	0.923232
rad71	0.00173863	0.989180	0.0106274	0.933859
PAH7+H	0.00172845	0.990908	0.0105652	0.944424
rad6	0.00170885	0.992617	0.0104454	0.954870
rad23	0.00106857	0.993686	0.00653166	0.961401
rad46	0.000841536	0.994527	0.00514392	0.966545
rad22	0.000768471	0.995296	0.00469730	0.971242
PAH3+H	0.000614397	0.995910	0.00375552	0.974998
rad73	0.000545187	0.996455	0.00333247	0.978330
PhCCH+CH3	0.000525010	0.996980	0.00320914	0.981540
rad30	0.000356294	0.997337	0.00217786	0.983717
rad52	0.000351314	0.997688	0.00214742	0.985865
rad35	0.000342173	0.998030	0.00209155	0.987956
rad72	0.000332567	0.998363	0.00203283	0.989989
rad19anti	0.000252285	0.998615	0.00154210	0.991531
Ph+MeAc	0.000200011	0.998815	0.00122257	0.992754
PAH1+H	0.000133275	0.998948	0.000814647	0.993569
rad20	0.000131102	0.999079	0.000801365	0.994370
rad45	0.000108859	0.999188	0.000665406	0.995035
rad11	9.57990e-05	0.999284	0.000585574	0.995621
PAH10+CH3	9.43295e-05	0.999378	0.000576593	0.996198
rad21	6.73409e-05	0.999446	0.000411623	0.996609
rad18	6.21633e-05	0.999508	0.000379976	0.996989
PhcycC3H3_A+H	5.09339e-05	0.999559	0.000311335	0.997300
rad59	5.04970e-05	0.999609	0.000308665	0.997609
PhCCCH3+H	4.00501e-05	0.999649	0.000244808	0.997854
rad19syn	3.99195e-05	0.999689	0.000244009	0.998098
rad67	3.78669e-05	0.999727	0.000231463	0.998329
rad60syn	3.65544e-05	0.999764	0.000223440	0.998553
rad65	3.34117e-05	0.999797	0.000204230	0.998757
rad9	3.26130e-05	0.999830	0.000199348	0.998956
PAH8+H	2.60872e-05	0.999856	0.000159459	0.999116
rad60anti	2.53271e-05	0.999881	0.000154813	0.999271
rad36	1.85397e-05	0.999900	0.000113325	0.999384
rad70	1.75160e-05	0.999917	0.000107067	0.999491
rad7	1.45376e-05	0.999932	8.88618e-05	0.999580
rad54	1.17783e-05	0.999944	7.19955e-05	0.999652

rad58	1.10576e-05	0.999955	6.75900e-05	0.999720
rad37	9.29713e-06	0.999964	5.68290e-05	0.999776
rad34	7.74395e-06	0.999972	4.73352e-05	0.999824
rad28	4.97067e-06	0.999977	3.03834e-05	0.999854
rad64	4.01608e-06	0.999981	2.45485e-05	0.999879
rad68syn	2.67344e-06	0.999983	1.63415e-05	0.999895
rad15	1.99022e-06	0.999985	1.21653e-05	0.999907
rad40syn	1.86108e-06	0.999987	1.13759e-05	0.999919
rad68anti	1.69913e-06	0.999989	1.03860e-05	0.999929
rad62	1.47288e-06	0.999990	9.00303e-06	0.999938
rad40anti	1.45123e-06	0.999992	8.87071e-06	0.999947
rad56	1.32036e-06	0.999993	8.07072e-06	0.999955
rad55	1.18444e-06	0.999994	7.23992e-06	0.999962
rad24	1.16660e-06	0.999995	7.13087e-06	0.999969
rad13	1.14436e-06	0.999997	6.99492e-06	0.999976
rad61	9.18244e-07	0.999998	5.61280e-06	0.999982
rad53	8.59934e-07	0.999998	5.25638e-06	0.999987
rad47	7.42401e-07	0.999999	4.53795e-06	0.999992
rad42	3.38853e-07	0.999999	2.07125e-06	0.999994
rad26	2.43584e-07	1.000000	1.48891e-06	0.999995
rad8	1.86018e-07	1.000000	1.13704e-06	0.999996
rad43	1.70761e-07	1.000000	1.04378e-06	0.999997
rad12	1.63311e-07	1.000000	9.98244e-07	0.999998
rad25	7.24257e-08	1.000000	4.42704e-07	0.999999
rad10	5.73310e-08	1.000000	3.50438e-07	0.999999
rad33	4.94840e-08	1.000000	3.02473e-07	0.999999
rad41	4.28116e-08	1.000000	2.61688e-07	1.000000
rad2	8.42175e-09	1.000000	5.14782e-08	1.000000
rad3	3.84810e-09	1.000000	2.35216e-08	1.000000
rad1	2.47287e-09	1.000000	1.51155e-08	1.000000
rad4	2.43425e-09	1.000000	1.48794e-08	1.000000
rad14	8.10926e-10	1.000000	4.95681e-09	1.000000
rad5	6.18993e-10	1.000000	3.78362e-09	1.000000
rad27	9.38061e-11	1.000000	5.73393e-10	1.000000

100000.000 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.49158e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.865581	0.865581	0.000000	0.000000
Indene+H	0.0816308	0.947212	0.607286	0.607286
PhCH2CCH+H	0.0193993	0.966611	0.144320	0.751606
Ph+Allene	0.0110470	0.977658	0.0821829	0.833789
PhCHCCH2+H	0.00696590	0.984624	0.0518223	0.885611
PAH9+H	0.00196553	0.986590	0.0146224	0.900234
rad50	0.00159075	0.988180	0.0118343	0.912068
rad38	0.00132309	0.989503	0.00984306	0.921911
rad39	0.00128757	0.990791	0.00957878	0.931490
rad51	0.00123034	0.992021	0.00915301	0.940643
PAH7+H	0.00118237	0.993204	0.00879615	0.949439
rad71	0.00102461	0.994228	0.00762249	0.957061
PAH3+H	0.000699009	0.994927	0.00520022	0.962262
rad23	0.000576025	0.995503	0.00428530	0.966547
rad46	0.000554948	0.996058	0.00412849	0.970675
rad6	0.000537898	0.996596	0.00400165	0.974677
PhCCH+CH3	0.000401691	0.996998	0.00298835	0.977665
rad19anti	0.000398087	0.997396	0.00296153	0.980627
rad30	0.000391528	0.997787	0.00291274	0.983540
rad73	0.000322252	0.998110	0.00239737	0.985937
rad35	0.000295520	0.998405	0.00219850	0.988136
rad52	0.000214822	0.998620	0.00159815	0.989734
Ph+MeAc	0.000200920	0.998821	0.00149473	0.991228
rad72	0.000195282	0.999016	0.00145279	0.992681
rad22	0.000165903	0.999182	0.00123422	0.993915
PAH1+H	8.28159e-05	0.999265	0.000616103	0.994532
PAH10+CH3	6.38258e-05	0.999329	0.000474827	0.995006
rad45	6.25305e-05	0.999391	0.000465191	0.995472
rad59	6.06879e-05	0.999452	0.000451483	0.995923
PhcycC3H3_A+H	5.84615e-05	0.999510	0.000434920	0.996358
rad20	5.57607e-05	0.999566	0.000414827	0.996773
rad60syn	4.49529e-05	0.999611	0.000334424	0.997107
rad67	4.45416e-05	0.999656	0.000331364	0.997439
PhCCCH3+H	4.40875e-05	0.999700	0.000327986	0.997767
rad19syn	3.79910e-05	0.999738	0.000282631	0.998049
rad11	3.18159e-05	0.999770	0.000236692	0.998286
rad60anti	3.11646e-05	0.999801	0.000231846	0.998518

rad9	3.11339e-05	0.999832	0.000231618	0.998749
rad21	2.83362e-05	0.999860	0.000210805	0.998960
rad65	2.33797e-05	0.999884	0.000173932	0.999134
rad18	1.78425e-05	0.999901	0.000132738	0.999267
PAH8+H	1.54048e-05	0.999917	0.000114602	0.999381
rad54	1.24318e-05	0.999929	9.24853e-05	0.999474
rad70	1.17064e-05	0.999941	8.70892e-05	0.999561
rad36	1.08186e-05	0.999952	8.04840e-05	0.999641
rad58	9.81776e-06	0.999962	7.30385e-05	0.999715
rad37	7.64107e-06	0.999969	5.68452e-05	0.999771
rad7	5.24973e-06	0.999975	3.90549e-05	0.999810
rad34	4.94800e-06	0.999979	3.68102e-05	0.999847
rad28	2.75845e-06	0.999982	2.05212e-05	0.999868
rad64	2.46579e-06	0.999985	1.83440e-05	0.999886
rad56	1.93467e-06	0.999987	1.43928e-05	0.999900
rad15	1.82005e-06	0.999988	1.35401e-05	0.999914
rad68syn	1.60328e-06	0.999990	1.19275e-05	0.999926
rad55	1.32646e-06	0.999991	9.86807e-06	0.999936
rad53	1.18278e-06	0.999993	8.79919e-06	0.999945
rad62	1.11716e-06	0.999994	8.31106e-06	0.999953
rad40syn	1.10591e-06	0.999995	8.22737e-06	0.999961
rad68anti	1.01929e-06	0.999996	7.58293e-06	0.999969
rad40anti	8.60756e-07	0.999997	6.40353e-06	0.999975
rad24	7.09726e-07	0.999997	5.27995e-06	0.999980
rad61	5.80099e-07	0.999998	4.31560e-06	0.999985
rad13	5.09832e-07	0.999998	3.79286e-06	0.999989
rad47	4.05000e-07	0.999999	3.01297e-06	0.999992
rad42	2.57806e-07	0.999999	1.91793e-06	0.999993
rad12	2.13864e-07	0.999999	1.59103e-06	0.999995
rad8	2.08867e-07	1.000000	1.55385e-06	0.999997
rad26	1.95269e-07	1.000000	1.45269e-06	0.999998
rad43	1.25176e-07	1.000000	9.31237e-07	0.999999
rad10	4.53397e-08	1.000000	3.37301e-07	0.999999
rad25	4.16643e-08	1.000000	3.09958e-07	1.000000
rad41	2.92147e-08	1.000000	2.17341e-07	1.000000
rad33	2.55683e-08	1.000000	1.90213e-07	1.000000
rad2	5.51635e-09	1.000000	4.10385e-08	1.000000
rad1	1.71163e-09	1.000000	1.27336e-08	1.000000
rad3	1.63582e-09	1.000000	1.21696e-08	1.000000
rad5	1.54327e-09	1.000000	1.14811e-08	1.000000
rad4	1.02821e-09	1.000000	7.64927e-09	1.000000
rad14	4.55931e-10	1.000000	3.39187e-09	1.000000
rad27	9.10951e-11	1.000000	6.77695e-10	1.000000

100000.000 Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	4.02566e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.877690	0.877690	0.00000	0.00000
Indene+H	0.0633747	0.941065	0.518150	0.518150
PhCH2CCH+H	0.0279131	0.968978	0.228217	0.746367
Ph+Allene	0.0110469	0.980025	0.0903193	0.836686
PhCHCCH2+H	0.00838683	0.988412	0.0685705	0.905257
PAH9+H	0.00166797	0.990079	0.0136373	0.918894
rad50	0.00103691	0.991116	0.00847771	0.927372
rad38	0.00100034	0.992117	0.00817873	0.935551
PAH3+H	0.000939168	0.993056	0.00767861	0.943229
PAH7+H	0.000920777	0.993977	0.00752825	0.950757
rad39	0.000828224	0.994805	0.00677154	0.957529
rad51	0.000776157	0.995581	0.00634584	0.963875
rad71	0.000618866	0.996200	0.00505983	0.968935
rad19anti	0.000555996	0.996756	0.00454581	0.973480
rad30	0.000422421	0.997178	0.00345371	0.976934
rad46	0.000401522	0.997580	0.00328283	0.980217
PhCCH+CH3	0.000331675	0.997912	0.00271177	0.982929
rad35	0.000281121	0.998193	0.00229844	0.985227
Ph+MeAc	0.000224662	0.998417	0.00183683	0.987064
rad23	0.000218554	0.998636	0.00178689	0.988851
rad73	0.000195340	0.998831	0.00159710	0.990448
rad6	0.000182424	0.999014	0.00149150	0.991939
rad52	0.000138322	0.999152	0.00113092	0.993070
rad72	0.000117589	0.999270	0.000961402	0.994032
rad59	8.11219e-05	0.999351	0.000663250	0.994695
rad67	5.88480e-05	0.999410	0.000481140	0.995176
PhCCCH3+H	5.68133e-05	0.999466	0.000464504	0.995641
rad60syn	5.66155e-05	0.999523	0.000462887	0.996104

PAH1+H	5.40721e-05	0.999577	0.000442092	0.996546
PAH10+CH3	5.05810e-05	0.999628	0.000413549	0.996959
rad22	4.34635e-05	0.999671	0.000355357	0.997315
PhcycC3H3_A+H	4.25600e-05	0.999714	0.000347969	0.997663
rad60anti	3.96351e-05	0.999753	0.000324056	0.997987
rad45	3.60808e-05	0.999789	0.000294995	0.998282
rad19syn	3.09843e-05	0.999820	0.000253327	0.998535
rad20	2.75761e-05	0.999848	0.000225462	0.998760
rad9	2.44171e-05	0.999872	0.000199633	0.998960
rad65	1.84275e-05	0.999891	0.000150662	0.999111
rad21	1.37168e-05	0.999904	0.000112148	0.999223
rad11	1.30083e-05	0.999917	0.000106355	0.999329
rad58	1.24103e-05	0.999930	0.000101466	0.999431
rad54	9.73327e-06	0.999940	7.95790e-05	0.999510
PAH8+H	9.51712e-06	0.999949	7.78117e-05	0.999588
rad70	9.31397e-06	0.999958	7.61507e-05	0.999664
rad37	7.82640e-06	0.999966	6.39884e-05	0.999728
rad18	6.95400e-06	0.999973	5.68557e-05	0.999785
rad36	6.32432e-06	0.999980	5.17074e-05	0.999837
rad34	3.66997e-06	0.999983	3.00056e-05	0.999867
rad7	2.57459e-06	0.999986	2.10498e-05	0.999888
rad64	1.58092e-06	0.999987	1.29256e-05	0.999901
rad15	1.50026e-06	0.999989	1.22661e-05	0.999913
rad56	1.45290e-06	0.999990	1.18789e-05	0.999925
rad28	1.23061e-06	0.999992	1.00615e-05	0.999935
rad68syn	1.03849e-06	0.999993	8.49064e-06	0.999943
rad55	1.02498e-06	0.999994	8.38023e-06	0.999952
rad53	8.88042e-07	0.999995	7.26061e-06	0.999959
rad62	7.88190e-07	0.999995	6.44422e-06	0.999966
rad40syn	6.95351e-07	0.999996	5.68517e-06	0.999971
rad68anti	6.60739e-07	0.999997	5.40219e-06	0.999977
rad40anti	5.37618e-07	0.999997	4.39555e-06	0.999981
rad24	4.62171e-07	0.999998	3.77870e-06	0.999985
rad61	3.95208e-07	0.999998	3.23121e-06	0.999988
rad13	2.73358e-07	0.999998	2.23497e-06	0.999990
rad47	2.31728e-07	0.999999	1.89461e-06	0.999992
rad12	2.25848e-07	0.999999	1.84653e-06	0.999994
rad8	2.24323e-07	0.999999	1.83406e-06	0.999996
rad42	1.79858e-07	0.999999	1.47051e-06	0.999997
rad26	1.44809e-07	0.999999	1.18396e-06	0.999998
rad43	1.10837e-07	0.999999	9.06201e-07	0.999999
rad10	4.08869e-08	1.000000	3.34290e-07	1.000000
rad25	2.57065e-08	1.000000	2.10176e-07	1.000000
rad41	2.24266e-08	1.000000	1.83359e-07	1.000000
rad33	1.54721e-08	1.000000	1.26500e-07	1.000000
rad2	4.27527e-09	1.000000	3.49545e-08	1.000000
rad5	1.97555e-09	1.000000	1.61520e-08	1.000000
rad1	1.40529e-09	1.000000	1.14896e-08	1.000000
rad3	8.31237e-10	1.000000	6.79617e-09	1.000000
rad4	5.16577e-10	1.000000	4.22352e-09	1.000000
rad14	3.06916e-10	1.000000	2.50934e-09	1.000000
rad27	9.72758e-11	1.000000	7.95324e-10	1.000000

100000.000 Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.32896e-13 (1.00)	6.41942e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.879537	0.879537	0.00000	0.00000
Indene+H	0.0505703	0.930107	0.419800	0.419800
PhCH2CCH+H	0.0380449	0.968152	0.315823	0.735623
Ph+Allene	0.0114066	0.979559	0.0946897	0.830313
PhCHCCH2+H	0.0104048	0.989964	0.0863737	0.916686
PAH9+H	0.00142185	0.991385	0.0118032	0.928490
PAH3+H	0.00128201	0.992667	0.0106424	0.939132
rad38	0.000843306	0.993511	0.00700055	0.946133
PAH7+H	0.000834844	0.994346	0.00693031	0.953063
rad50	0.000741108	0.995087	0.00615217	0.959215
rad19anti	0.000682423	0.995769	0.00566501	0.964880
rad39	0.000575934	0.996345	0.00478102	0.969661
rad51	0.000516216	0.996861	0.00428527	0.973946
rad30	0.000444093	0.997305	0.00368656	0.977633
rad71	0.000370366	0.997676	0.00307453	0.980707
rad46	0.000327074	0.998003	0.00271515	0.983423
PhCCH+CH3	0.000296726	0.998300	0.00246322	0.985886
rad35	0.000279699	0.998579	0.00232187	0.988208
Ph+MeAc	0.000272823	0.998852	0.00226479	0.990472

rad73	0.000118394	0.998970	0.000982823	0.991455
rad59	0.000107289	0.999078	0.000890638	0.992346
rad23	9.59312e-05	0.999174	0.000796356	0.993142
rad52	9.58992e-05	0.999270	0.000796090	0.993938
rad67	8.04811e-05	0.999350	0.000668100	0.994606
PhCCCH3+H	7.50113e-05	0.999425	0.000622693	0.995229
rad6	7.15798e-05	0.999497	0.000594207	0.995823
rad72	6.95608e-05	0.999566	0.000577447	0.996401
rad60syn	6.91357e-05	0.999635	0.000573917	0.996975
PAH10+CH3	4.96089e-05	0.999685	0.000411819	0.997387
rad60anti	4.89677e-05	0.999734	0.000406496	0.997793
PAH1+H	3.87319e-05	0.999773	0.000321526	0.998115
rad19syn	3.01677e-05	0.999803	0.000250431	0.998365
PhcycC3H3_A+H	2.96935e-05	0.999833	0.000246495	0.998611
rad45	2.08763e-05	0.999853	0.000173301	0.998785
rad58	1.83037e-05	0.999872	0.000151945	0.998937
rad9	1.68254e-05	0.999889	0.000139673	0.999076
rad22	1.57320e-05	0.999904	0.000130596	0.999207
rad20	1.52557e-05	0.999920	0.000126643	0.999334
rad65	1.28757e-05	0.999932	0.000106886	0.999441
rad70	9.15439e-06	0.999942	7.59935e-05	0.999517
rad37	9.05736e-06	0.999951	7.51880e-05	0.999592
rad54	8.13028e-06	0.999959	6.74921e-05	0.999659
rad21	7.38516e-06	0.999966	6.13066e-05	0.999721
PAH8+H	6.37802e-06	0.999972	5.29460e-05	0.999773
rad11	5.98677e-06	0.999978	4.96981e-05	0.999823
rad36	3.69988e-06	0.999982	3.07139e-05	0.999854
rad34	3.38263e-06	0.999986	2.80803e-05	0.999882
rad18	3.18984e-06	0.999989	2.64799e-05	0.999908
rad7	1.28633e-06	0.999990	1.06783e-05	0.999919
rad15	1.10460e-06	0.999991	9.16964e-06	0.999928
rad64	1.09978e-06	0.999992	9.12960e-06	0.999937
rad56	9.40384e-07	0.999993	7.80643e-06	0.999945
rad55	8.30829e-07	0.999994	6.89698e-06	0.999952
rad68syn	7.84694e-07	0.999995	6.51399e-06	0.999959
rad28	6.27569e-07	0.999995	5.20966e-06	0.999964
rad53	6.13173e-07	0.999996	5.09015e-06	0.999969
rad62	5.35427e-07	0.999997	4.44475e-06	0.999973
rad68anti	5.00026e-07	0.999997	4.15087e-06	0.999978
rad40syn	4.89040e-07	0.999998	4.05968e-06	0.999982
rad40anti	3.71091e-07	0.999998	3.08055e-06	0.999985
rad24	3.13593e-07	0.999998	2.60324e-06	0.999987
rad61	3.11955e-07	0.999999	2.58964e-06	0.999990
rad8	2.32249e-07	0.999999	1.92797e-06	0.999992
rad12	2.05876e-07	0.999999	1.70904e-06	0.999993
rad13	1.45028e-07	0.999999	1.20393e-06	0.999995
rad47	1.40039e-07	0.999999	1.16251e-06	0.999996
rad43	1.22635e-07	0.999999	1.01804e-06	0.999997
rad42	1.13813e-07	1.000000	9.44799e-07	0.999998
rad26	1.08298e-07	1.000000	8.99020e-07	0.999999
rad10	3.42641e-08	1.000000	2.84438e-07	0.999999
rad41	2.12637e-08	1.000000	1.76517e-07	0.999999
rad25	1.68996e-08	1.000000	1.40289e-07	0.999999
rad33	9.23320e-09	1.000000	7.66478e-08	0.999999
rad2	3.21414e-09	1.000000	2.66816e-08	0.999999
rad5	2.20166e-09	1.000000	1.82767e-08	0.999999
rad1	1.12931e-09	1.000000	9.37479e-09	0.999999
rad3	4.24266e-10	1.000000	3.52197e-09	0.999999
rad4	2.59556e-10	1.000000	2.15466e-09	0.999999
rad14	2.21963e-10	1.000000	1.84258e-09	0.999999
rad27	9.78236e-11	1.000000	8.12066e-10	0.999999

100000.000 Pa, 2750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	8.05113e-13 (1.00)	1.00635e-13 (1.00)
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species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.875005	0.875005	0.00000	0.00000
PhCH2CCH+H	0.0492752	0.924280	0.394218	0.394218
Indene+H	0.0409206	0.965201	0.327378	0.721596
PhCHCCH2+H	0.0128606	0.978061	0.102889	0.824485
Ph+Allene	0.0121852	0.990247	0.0974859	0.921971
PAH3+H	0.00167257	0.991919	0.0133811	0.935352
PAH9+H	0.00128235	0.993202	0.0102592	0.945611
PAH7+H	0.000855108	0.994057	0.00684114	0.952452
rad38	0.000773008	0.994830	0.00618431	0.958637
rad19anti	0.000761717	0.995591	0.00609398	0.964731

rad50	0.000613264	0.996205	0.00490631	0.969637
rad39	0.000461775	0.996666	0.00369435	0.973331
rad30	0.000454913	0.997121	0.00363945	0.976971
rad51	0.000392246	0.997514	0.00313809	0.980109
Ph+MeAc	0.000339461	0.997853	0.00271580	0.982825
rad46	0.000296583	0.998150	0.00237276	0.985197
PhCCH+CH3	0.000293180	0.998443	0.00234554	0.987543
rad35	0.000291992	0.998735	0.00233603	0.989879
rad71	0.000230455	0.998965	0.00184371	0.991723
rad59	0.000135051	0.999100	0.00108045	0.992803
rad67	0.000106842	0.999207	0.000854768	0.993658
PhCCCH3+H	9.59768e-05	0.999303	0.000767846	0.994426
rad60syn	8.07585e-05	0.999384	0.000646094	0.995072
rad52	7.67612e-05	0.999461	0.000614115	0.995686
rad73	7.62868e-05	0.999537	0.000610319	0.996296
rad60anti	5.78233e-05	0.999595	0.000462605	0.996759
PAH10+CH3	5.75312e-05	0.999652	0.000460268	0.997219
rad23	4.64708e-05	0.999699	0.000371782	0.997591
rad72	4.16219e-05	0.999740	0.000332989	0.997924
rad19syn	3.72586e-05	0.999778	0.000298081	0.998222
PAH1+H	3.41290e-05	0.999812	0.000273043	0.998495
rad6	2.91013e-05	0.999841	0.000232820	0.998728
rad58	2.66000e-05	0.999867	0.000212809	0.998941
PhcycC3H3_A+H	2.53974e-05	0.999893	0.000203188	0.999144
rad45	1.20601e-05	0.999905	9.64845e-05	0.999240
rad9	1.07822e-05	0.999916	8.62613e-05	0.999327
rad70	1.07372e-05	0.999926	8.59008e-05	0.999412
rad37	1.05938e-05	0.999937	8.47535e-05	0.999497
rad65	9.68007e-06	0.999947	7.74437e-05	0.999575
rad20	9.20797e-06	0.999956	7.36668e-05	0.999648
rad54	7.77956e-06	0.999964	6.22390e-05	0.999711
rad22	6.86339e-06	0.999971	5.49093e-05	0.999766
PAH8+H	5.48168e-06	0.999976	4.38552e-05	0.999809
rad21	4.32163e-06	0.999980	3.45744e-05	0.999844
rad34	3.89349e-06	0.999984	3.11492e-05	0.999875
rad11	3.06918e-06	0.999987	2.45545e-05	0.999900
rad36	2.15755e-06	0.999989	1.72611e-05	0.999917
rad18	1.63574e-06	0.999991	1.30865e-05	0.999930
rad64	9.39140e-07	0.999992	7.51342e-06	0.999938
rad55	7.93749e-07	0.999993	6.35025e-06	0.999944
rad68syn	7.89956e-07	0.999994	6.31990e-06	0.999950
rad56	7.75684e-07	0.999994	6.20573e-06	0.999956
rad15	7.55649e-07	0.999995	6.04544e-06	0.999962
rad7	6.29172e-07	0.999996	5.03358e-06	0.999967
rad53	5.38191e-07	0.999996	4.30570e-06	0.999972
rad68anti	5.04095e-07	0.999997	4.03292e-06	0.999976
rad40syn	4.52373e-07	0.999997	3.61993e-06	0.999979
rad62	4.45591e-07	0.999998	3.56488e-06	0.999983
rad28	3.47381e-07	0.999998	2.77916e-06	0.999986
rad40anti	3.34312e-07	0.999998	2.67461e-06	0.999988
rad61	3.16351e-07	0.999999	2.53091e-06	0.999991
rad8	2.33737e-07	0.999999	1.86997e-06	0.999993
rad24	2.17128e-07	0.999999	1.73710e-06	0.999995
rad12	1.71891e-07	0.999999	1.37518e-06	0.999996
rad43	1.56394e-07	0.999999	1.25120e-06	0.999997
rad47	9.68494e-08	1.000000	7.74827e-07	0.999998
rad42	8.54149e-08	1.000000	6.83347e-07	0.999999
rad26	7.73958e-08	1.000000	6.19192e-07	0.999999
rad13	7.51183e-08	1.000000	6.00970e-07	1.000000
rad10	2.64480e-08	1.000000	2.11592e-07	1.000000
rad41	2.57969e-08	1.000000	2.06384e-07	1.000000
rad25	1.19020e-08	1.000000	9.52200e-08	1.000000
rad33	5.36309e-09	1.000000	4.29065e-08	1.000000
rad2	2.30508e-09	1.000000	1.84414e-08	1.000000
rad5	2.27917e-09	1.000000	1.82341e-08	1.000000
rad1	8.75791e-10	1.000000	7.00661e-09	1.000000
rad3	2.14652e-10	1.000000	1.71728e-09	1.000000
rad14	1.72872e-10	1.000000	1.38303e-09	1.000000
rad4	1.28894e-10	1.000000	1.03120e-09	1.000000
rad27	9.16043e-11	1.000000	7.32864e-10	1.000000

100000.000 Pa, 3000.00000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	1.15309e-12 (1.00)	1.53990e-13 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866455	0.866455	0.00000	0.00000

PhCH2CCH+H	0.0611903	0.927645	0.458201	0.458201
Indene+H	0.0333944	0.961040	0.250062	0.708263
PhCHCCH2+H	0.0155762	0.976616	0.116636	0.824899
Ph+Allene	0.0132776	0.989894	0.0994242	0.924323
PAH3+H	0.00206837	0.991962	0.0154883	0.939812
PAH9+H	0.00119638	0.993158	0.00895866	0.948770
PAH7+H	0.000926793	0.994085	0.00693995	0.955710
rad19anti	0.000797756	0.994883	0.00597370	0.961684
rad38	0.000734984	0.995618	0.00550366	0.967187
rad50	0.000578609	0.996196	0.00433270	0.971520
rad30	0.000455587	0.996652	0.00341149	0.974932
rad39	0.000428737	0.997081	0.00321044	0.978142
Ph+MeAc	0.000415139	0.997496	0.00310861	0.981251
rad51	0.000351460	0.997847	0.00263178	0.983882
PhCCH+CH3	0.000321414	0.998169	0.00240679	0.986289
rad35	0.000308933	0.998478	0.00231333	0.988603
rad46	0.000284796	0.998762	0.00213259	0.990735
rad71	0.000162772	0.998925	0.00121885	0.991954
rad59	0.000161510	0.999087	0.00120941	0.993163
rad67	0.000134502	0.999221	0.00100717	0.994171
PhCCCH3+H	0.000117999	0.999339	0.000883595	0.995054
rad60syn	9.05200e-05	0.999430	0.000677825	0.995732
rad52	7.11811e-05	0.999501	0.000533013	0.996265
PAH10+CH3	7.04452e-05	0.999571	0.000527502	0.996793
rad60anti	6.54317e-05	0.999637	0.000489961	0.997283
rad73	5.72398e-05	0.999694	0.000428619	0.997711
rad19syn	5.13889e-05	0.999745	0.000384806	0.998096
PAH1+H	3.69129e-05	0.999782	0.000276409	0.998372
rad58	3.64182e-05	0.999819	0.000272704	0.998645
rad72	2.69974e-05	0.999846	0.000202160	0.998847
PhcycC3H3_A+H	2.60608e-05	0.999872	0.000195147	0.999042
rad23	2.35317e-05	0.999895	0.000176208	0.999219
rad70	1.36142e-05	0.999909	0.000101945	0.999321
rad6	1.21438e-05	0.999921	9.09346e-05	0.999411
rad37	1.19315e-05	0.999933	8.93444e-05	0.999501
rad65	8.54514e-06	0.999942	6.39871e-05	0.999565
rad54	8.02647e-06	0.999950	6.01033e-05	0.999625
rad45	6.99927e-06	0.999957	5.24114e-05	0.999677
rad9	6.69543e-06	0.999963	5.01363e-05	0.999727
PAH8+H	6.56099e-06	0.999970	4.91295e-05	0.999777
rad20	5.95186e-06	0.999976	4.45683e-05	0.999821
rad34	5.03077e-06	0.999981	3.76711e-05	0.999859
rad22	3.38559e-06	0.999984	2.53517e-05	0.999884
rad21	2.70118e-06	0.999987	2.02268e-05	0.999904
rad11	1.74839e-06	0.999989	1.30922e-05	0.999917
rad36	1.26213e-06	0.999990	9.45097e-06	0.999927
rad68syn	1.01842e-06	0.999991	7.62604e-06	0.999935
rad64	1.00298e-06	0.999992	7.51048e-06	0.999942
rad18	9.12460e-07	0.999993	6.83262e-06	0.999949
rad56	8.42541e-07	0.999994	6.30906e-06	0.999955
rad55	8.36359e-07	0.999995	6.26276e-06	0.999961
rad68anti	6.50069e-07	0.999995	4.86780e-06	0.999966
rad53	5.88456e-07	0.999996	4.40643e-06	0.999971
rad40syn	5.64963e-07	0.999996	4.23052e-06	0.999975
rad15	4.98697e-07	0.999997	3.73431e-06	0.999979
rad62	4.74664e-07	0.999997	3.55434e-06	0.999982
rad40anti	4.11821e-07	0.999998	3.08377e-06	0.999985
rad61	3.88353e-07	0.999998	2.90804e-06	0.999988
rad7	3.10480e-07	0.999998	2.32491e-06	0.999991
rad8	2.29938e-07	0.999999	1.72181e-06	0.999992
rad43	2.03824e-07	0.999999	1.52626e-06	0.999994
rad28	2.01789e-07	0.999999	1.51102e-06	0.999995
rad24	1.52273e-07	0.999999	1.14024e-06	0.999996
rad12	1.36927e-07	0.999999	1.02533e-06	0.999998
rad42	8.57578e-08	0.999999	6.42166e-07	0.999998
rad47	8.01412e-08	1.000000	6.00108e-07	0.999999
rad26	5.31817e-08	1.000000	3.98231e-07	0.999999
rad13	3.93873e-08	1.000000	2.94937e-07	0.999999
rad41	3.48798e-08	1.000000	2.61184e-07	1.000000
rad10	1.93408e-08	1.000000	1.44826e-07	1.000000
rad25	8.91768e-09	1.000000	6.67767e-08	1.000000
rad33	3.13868e-09	1.000000	2.35029e-08	1.000000
rad5	2.25812e-09	1.000000	1.69091e-08	1.000000
rad2	1.60818e-09	1.000000	1.20422e-08	1.000000
rad1	6.65940e-10	1.000000	4.98665e-09	1.000000
rad14	1.44203e-10	1.000000	1.07981e-09	1.000000
rad3	1.11449e-10	1.000000	8.34548e-10	1.000000
rad27	8.13747e-11	1.000000	6.09344e-10	1.000000
rad4	6.56111e-11	1.000000	4.91304e-10	1.000000

100000.000 Pa, 3250.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.58309e-12 (1.00)		2.28899e-13 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.855410	0.855410	0.000000	0.000000
PhCH2CCH+H	0.0734370	0.928847	0.507897	0.507897
Indene+H	0.0274525	0.956299	0.189864	0.697761
PhCHCCH2+H	0.0184023	0.974702	0.127272	0.825033
Ph+Allene	0.0145945	0.989296	0.100937	0.925970
PAH3+H	0.00244083	0.991737	0.0168810	0.942851
PAH9+H	0.00112139	0.992859	0.00775566	0.950607
PAH7+H	0.00101402	0.993873	0.00701303	0.957620
rad19anti	0.000801135	0.994674	0.00554072	0.963160
rad38	0.000701102	0.995375	0.00484888	0.968009
rad50	0.000585772	0.995961	0.00405125	0.972061
Ph+MeAc	0.000490983	0.996452	0.00339568	0.975456
rad30	0.000447969	0.996900	0.00309820	0.978554
rad39	0.000436101	0.997336	0.00301612	0.981571
PhCCH+CH3	0.000380348	0.997716	0.00263052	0.984201
rad51	0.000354172	0.998070	0.00244948	0.986651
rad35	0.000324147	0.998394	0.00224183	0.988892
rad46	0.000277490	0.998672	0.00191914	0.990812
rad59	0.000184948	0.998857	0.00127912	0.992091
rad67	0.000160559	0.999017	0.00111044	0.993201
rad71	0.000140647	0.999158	0.000972729	0.994174
PhCCCH3+H	0.000140519	0.999298	0.000971845	0.995146
rad60syn	9.80549e-05	0.999396	0.000678157	0.995824
PAH10+CH3	8.50935e-05	0.999482	0.000588515	0.996412
rad52	7.20902e-05	0.999554	0.000498582	0.996911
rad19syn	7.19289e-05	0.999626	0.000497467	0.997408
rad60anti	7.14673e-05	0.999697	0.000494275	0.997903
rad73	5.24558e-05	0.999750	0.000362789	0.998265
rad58	4.69943e-05	0.999797	0.000325017	0.998590
PAH1+H	4.43265e-05	0.999841	0.000306566	0.998897
PhcycC3H3_A+H	2.89070e-05	0.999870	0.000199924	0.999097
rad72	2.08582e-05	0.999891	0.000144257	0.999241
rad70	1.73917e-05	0.999908	0.000120283	0.999361
rad37	1.28421e-05	0.999921	8.88170e-05	0.999450
rad23	1.23112e-05	0.999933	8.51454e-05	0.999535
PAH8+H	9.52128e-06	0.999943	6.58501e-05	0.999601
rad65	8.51403e-06	0.999951	5.88839e-05	0.999660
rad54	8.49516e-06	0.999960	5.87533e-05	0.999719
rad34	6.64356e-06	0.999966	4.59475e-05	0.999765
rad6	5.31886e-06	0.999972	3.67857e-05	0.999802
rad9	4.13988e-06	0.999976	2.86318e-05	0.999830
rad45	4.10802e-06	0.999980	2.84114e-05	0.999859
rad20	4.06312e-06	0.999984	2.81009e-05	0.999887
rad22	1.83413e-06	0.999986	1.26850e-05	0.999899
rad21	1.77997e-06	0.999988	1.23105e-05	0.999912
rad68syn	1.44467e-06	0.999989	9.99149e-06	0.999922
rad64	1.21204e-06	0.999990	8.38260e-06	0.999930
rad11	1.09519e-06	0.999991	7.57447e-06	0.999938
rad56	1.03561e-06	0.999992	7.16240e-06	0.999945
rad68anti	9.21686e-07	0.999993	6.37447e-06	0.999951
rad55	9.10436e-07	0.999994	6.29666e-06	0.999958
rad40syn	8.15547e-07	0.999995	5.64040e-06	0.999963
rad36	7.45629e-07	0.999996	5.15684e-06	0.999968
rad53	7.02565e-07	0.999996	4.85900e-06	0.999973
rad40anti	5.96393e-07	0.999997	4.12471e-06	0.999977
rad62	5.77309e-07	0.999998	3.99272e-06	0.999981
rad18	5.43664e-07	0.999998	3.76003e-06	0.999985
rad61	5.06581e-07	0.999999	3.50356e-06	0.999989
rad15	3.25817e-07	0.999999	2.25338e-06	0.999991
rad43	2.57835e-07	0.999999	1.78321e-06	0.999993
rad8	2.21891e-07	0.999999	1.53462e-06	0.999994
rad7	1.59237e-07	1.000000	1.10130e-06	0.999995
rad28	1.22136e-07	1.000000	8.44703e-07	0.999996
rad24	1.08015e-07	1.000000	7.47039e-07	0.999997
rad12	1.06734e-07	1.000000	7.38181e-07	0.999998
rad42	1.05113e-07	1.000000	7.26970e-07	0.999998
rad47	7.62828e-08	1.000000	5.27579e-07	0.999999
rad41	4.72681e-08	1.000000	3.26911e-07	0.999999
rad26	3.58032e-08	1.000000	2.47619e-07	0.999999
rad13	2.15472e-08	1.000000	1.49023e-07	1.000000
rad10	1.37485e-08	1.000000	9.50861e-08	1.000000
rad25	7.00210e-09	1.000000	4.84272e-08	1.000000

rad5	2.19000e-09	1.00000	1.51462e-08	1.000000
rad33	1.90119e-09	1.00000	1.31488e-08	1.000000
rad2	1.11609e-09	1.00000	7.71896e-09	1.000000
rad1	5.03501e-10	1.00000	3.48226e-09	1.000000
rad14	1.25540e-10	1.00000	8.68245e-10	1.000000
rad27	6.99570e-11	1.00000	4.83829e-10	1.000000
rad3	6.10983e-11	1.00000	4.22561e-10	1.000000
rad4	3.53135e-11	1.00000	2.44232e-10	1.000000

100000.000 Pa, 3500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.10046e-12 (1.00)	3.30007e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.842888	0.842888	0.00000	0.00000
PhCH2CCH+H	0.0857254	0.928613	0.545634	0.545634
Indene+H	0.0227425	0.951356	0.144754	0.690388
PhCHCCH2+H	0.0212367	0.972593	0.135170	0.825558
Ph+Allene	0.0160699	0.988662	0.102283	0.927841
PAH3+H	0.00277289	0.991435	0.0176492	0.945490
PAH7+H	0.00109668	0.992532	0.00698025	0.952470
PAH9+H	0.00104079	0.993573	0.00662453	0.959095
rad19anti	0.000782223	0.994355	0.00497878	0.964074
rad38	0.000660626	0.995016	0.00420482	0.968279
rad50	0.000604401	0.995620	0.00384696	0.972126
Ph+MeAc	0.000560223	0.996180	0.00356577	0.975691
PhCCH+CH3	0.000468216	0.996649	0.00298015	0.978671
rad39	0.000458429	0.997107	0.00291786	0.981589
rad30	0.000434248	0.997541	0.00276394	0.984353
rad51	0.000374752	0.997916	0.00238526	0.986739
rad35	0.000334972	0.998251	0.00213206	0.988871
rad46	0.000268275	0.998519	0.00170755	0.990578
rad59	0.000204549	0.998724	0.00130193	0.991880
rad67	0.000183082	0.998907	0.00116530	0.993045
PhCCCH3+H	0.000163713	0.999071	0.00104202	0.994087
rad71	0.000146587	0.999217	0.000933015	0.995020
rad60syn	0.000103377	0.999321	0.000657983	0.995678
PAH10+CH3	9.92476e-05	0.999420	0.000631702	0.996310
rad19syn	9.82500e-05	0.999518	0.000625352	0.996935
rad60anti	7.58935e-05	0.999594	0.000483055	0.997418
rad52	7.51238e-05	0.999669	0.000478156	0.997897
rad58	5.77012e-05	0.999727	0.000367262	0.998264
rad73	5.60307e-05	0.999783	0.000356630	0.998621
PAH1+H	5.43977e-05	0.999837	0.000346237	0.998967
PhcycC3H3_A+H	3.25456e-05	0.999870	0.000207149	0.999174
rad70	2.17330e-05	0.999891	0.000138328	0.999312
rad72	2.02042e-05	0.999912	0.000128598	0.999441
PAH8+H	1.43607e-05	0.999926	9.14045e-05	0.999532
rad37	1.32868e-05	0.999939	8.45692e-05	0.999617
rad54	9.02661e-06	0.999948	5.74535e-05	0.999674
rad65	8.92566e-06	0.999957	5.68110e-05	0.999731
rad34	8.59879e-06	0.999966	5.47305e-05	0.999786
rad23	6.65386e-06	0.999973	4.23512e-05	0.999828
rad20	2.89903e-06	0.999975	1.84521e-05	0.999847
rad9	2.59114e-06	0.999978	1.64923e-05	0.999863
rad6	2.49892e-06	0.999981	1.59054e-05	0.999879
rad45	2.44952e-06	0.999983	1.55910e-05	0.999895
rad68syn	2.04775e-06	0.999985	1.30337e-05	0.999908
rad64	1.50821e-06	0.999987	9.59961e-06	0.999917
rad68anti	1.30549e-06	0.999988	8.30933e-06	0.999926
rad56	1.30089e-06	0.999989	8.28001e-06	0.999934
rad21	1.22463e-06	0.999990	7.79465e-06	0.999942
rad40syn	1.19788e-06	0.999992	7.62438e-06	0.999949
rad22	1.07217e-06	0.999993	6.82424e-06	0.999956
rad55	9.94598e-07	0.999994	6.33052e-06	0.999962
rad40anti	8.84918e-07	0.999994	5.63242e-06	0.999968
rad53	8.49663e-07	0.999995	5.40802e-06	0.999973
rad11	7.42193e-07	0.999996	4.72399e-06	0.999978
rad62	7.23485e-07	0.999997	4.60492e-06	0.999983
rad61	6.51816e-07	0.999997	4.14875e-06	0.999987
rad36	4.46913e-07	0.999998	2.84456e-06	0.999990
rad18	3.41552e-07	0.999998	2.17395e-06	0.999992
rad43	3.13696e-07	0.999999	1.99665e-06	0.999994
rad15	2.14024e-07	0.999999	1.36224e-06	0.999995
rad8	2.10551e-07	0.999999	1.34014e-06	0.999997
rad42	1.37293e-07	0.999999	8.73859e-07	0.999998
rad7	8.63508e-08	0.999999	5.49615e-07	0.999998

rad12	8.26015e-08	0.999999	5.25751e-07	0.999999
rad47	7.75808e-08	0.999999	4.93795e-07	0.999999
rad24	7.75418e-08	0.999999	4.93546e-07	1.000000
rad28	7.66846e-08	1.000000	4.88090e-07	1.000000
rad41	6.19341e-08	1.000000	3.94205e-07	1.000000
rad26	2.39764e-08	1.000000	1.52607e-07	1.000000
rad13	1.24928e-08	1.000000	7.95152e-08	1.000000
rad10	9.68252e-09	1.000000	6.16283e-08	1.000000
rad25	5.67689e-09	1.000000	3.61329e-08	1.000000
rad5	2.10614e-09	1.000000	1.34054e-08	1.000000
rad33	1.20744e-09	1.000000	7.68522e-09	1.000000
rad2	7.85865e-10	1.000000	5.00196e-09	1.000000
rad1	3.81766e-10	1.000000	2.42991e-09	1.000000
rad14	1.11371e-10	1.000000	7.08863e-10	1.000000
rad27	5.91290e-11	1.000000	3.76350e-10	1.000000
rad3	3.58492e-11	1.000000	2.28177e-10	1.000000
rad4	2.04212e-11	1.000000	1.29979e-10	1.000000

100000.000 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.70978e-12 (1.00)	4.61773e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829590	0.829590	0.000000	0.000000
PhCH2CCH+H	0.0978302	0.927420	0.574088	0.574088
PhCHCCH2+H	0.0240172	0.951437	0.140938	0.715026
Indene+H	0.0190010	0.970438	0.111502	0.826528
Ph+Allene	0.0176529	0.988091	0.103591	0.930119
PAH3+H	0.00305659	0.991148	0.0179367	0.948056
PAH7+H	0.00116561	0.992314	0.00684006	0.954896
PAH9+H	0.000952626	0.993266	0.00559021	0.960486
rad19anti	0.000749139	0.994015	0.00439610	0.964882
rad50	0.000618982	0.994634	0.00363232	0.968514
Ph+MeAc	0.000618521	0.995253	0.00362961	0.972144
rad38	0.000612077	0.995865	0.00359180	0.975736
PhCCH+CH3	0.000582715	0.996448	0.00341950	0.979155
rad39	0.000481466	0.996929	0.00282534	0.981981
rad30	0.000416489	0.997346	0.00244404	0.984425
rad51	0.000398208	0.997744	0.00233677	0.986761
rad35	0.000340927	0.998085	0.00200063	0.988762
rad46	0.000255315	0.998340	0.00149825	0.990260
rad59	0.000220130	0.998560	0.00129177	0.991552
rad67	0.000201063	0.998761	0.00117988	0.992732
PhCCCH3+H	0.000187973	0.998949	0.00110307	0.993835
rad71	0.000169119	0.999118	0.000992425	0.994827
rad19syn	0.000129388	0.999248	0.000759274	0.995587
PAH10+CH3	0.000111628	0.999359	0.000655055	0.996242
rad60syn	0.000106714	0.999466	0.000626221	0.996868
rad60anti	7.88454e-05	0.999545	0.000462682	0.997331
rad52	7.79131e-05	0.999623	0.000457211	0.997788
rad58	6.80681e-05	0.999691	0.000399438	0.998187
PAH1+H	6.57776e-05	0.999757	0.000385997	0.998573
rad73	6.40613e-05	0.999821	0.000375925	0.998949
PhcycC3H3_A+H	3.63355e-05	0.999857	0.000213225	0.999163
rad70	2.63587e-05	0.999883	0.000154678	0.999317
rad72	2.31743e-05	0.999907	0.000135991	0.999453
PAH8+H	2.10800e-05	0.999928	0.000123702	0.999577
rad37	1.33253e-05	0.999941	7.81959e-05	0.999655
rad34	1.07787e-05	0.999952	6.32518e-05	0.999718
rad54	9.55885e-06	0.999961	5.60934e-05	0.999774
rad65	9.41491e-06	0.999971	5.52487e-05	0.999830
rad23	3.72064e-06	0.999974	2.18335e-05	0.999851
rad68syn	2.80580e-06	0.999977	1.64650e-05	0.999868
rad20	2.14490e-06	0.999979	1.25867e-05	0.999881
rad64	1.85015e-06	0.999981	1.08571e-05	0.999891
rad68anti	1.78749e-06	0.999983	1.04894e-05	0.999902
rad40syn	1.70494e-06	0.999985	1.00050e-05	0.999912
rad9	1.65630e-06	0.999986	9.71955e-06	0.999922
rad56	1.61204e-06	0.999988	9.45977e-06	0.999931
rad45	1.48801e-06	0.999989	8.73193e-06	0.999940
rad6	1.27500e-06	0.999991	7.48200e-06	0.999947
rad40anti	1.27393e-06	0.999992	7.47570e-06	0.999955
rad55	1.08007e-06	0.999993	6.33811e-06	0.999961
rad53	1.01504e-06	0.999994	5.95645e-06	0.999967
rad62	8.94328e-07	0.999995	5.24811e-06	0.999972
rad21	8.73299e-07	0.999996	5.12470e-06	0.999977
rad61	8.08362e-07	0.999997	4.74364e-06	0.999982

rad22	6.67749e-07	0.999997	3.91850e-06	0.999986
rad11	5.35090e-07	0.999998	3.14002e-06	0.999989
rad43	3.68480e-07	0.999998	2.16232e-06	0.999991
rad36	2.72521e-07	0.999999	1.59921e-06	0.999993
rad18	2.24175e-07	0.999999	1.31551e-06	0.999994
rad8	1.96825e-07	0.999999	1.15501e-06	0.999995
rad42	1.78457e-07	0.999999	1.04723e-06	0.999997
rad15	1.42525e-07	0.999999	8.36368e-07	0.999997
rad47	8.00080e-08	0.999999	4.69504e-07	0.999998
rad41	7.80486e-08	0.999999	4.58006e-07	0.999998
rad12	6.39609e-08	0.999999	3.75336e-07	0.999999
rad24	5.63935e-08	1.000000	3.30929e-07	0.999999
rad7	4.97693e-08	1.000000	2.92057e-07	0.999999
rad28	4.97069e-08	1.000000	2.91691e-07	1.000000
rad26	1.61305e-08	1.000000	9.46571e-08	1.000000
rad13	7.70151e-09	1.000000	4.51941e-08	1.000000
rad10	6.84779e-09	1.000000	4.01843e-08	1.000000
rad25	4.70105e-09	1.000000	2.75868e-08	1.000000
rad5	2.01989e-09	1.000000	1.18531e-08	1.000000
rad33	8.05952e-10	1.000000	4.72950e-09	1.000000
rad2	5.70206e-10	1.000000	3.34609e-09	1.000000
rad1	2.91530e-10	1.000000	1.71076e-09	1.000000
rad14	9.93760e-11	1.000000	5.83159e-10	1.000000
rad27	4.96790e-11	1.000000	2.91527e-10	1.000000
rad3	2.25429e-11	1.000000	1.32286e-10	1.000000
rad4	1.27190e-11	1.000000	7.46379e-11	1.000000

100000.000 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28344e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.816003	0.816003	0.00000	0.00000
PhCH2CCH+H	0.109581	0.925584	0.595561	0.595561
PhCHCCH2+H	0.0267079	0.952292	0.145154	0.740715
Ph+Allene	0.0193029	0.971595	0.104909	0.845624
Indene+H	0.0160218	0.987617	0.0870766	0.932701
PAH3+H	0.00329050	0.990907	0.0178834	0.950584
PAH7+H	0.00121827	0.992125	0.00662116	0.957205
PAH9+H	0.000860710	0.992986	0.00467785	0.961883
PhCCH+CH3	0.000720621	0.993707	0.00391649	0.965800
rad19anti	0.000707796	0.994414	0.00384678	0.969646
Ph+MeAc	0.000663777	0.995078	0.00360754	0.973254
rad50	0.000623293	0.995702	0.00338752	0.976641
rad38	0.000557911	0.996259	0.00303218	0.979674
rad39	0.000498331	0.996758	0.00270837	0.982382
rad51	0.000416789	0.997175	0.00226520	0.984647
rad30	0.000396437	0.997571	0.00215459	0.986802
rad35	0.000342550	0.997914	0.00186171	0.988663
rad46	0.000238994	0.998153	0.00129890	0.989962
rad59	0.000231917	0.998384	0.00126044	0.991223
rad67	0.000214229	0.998599	0.00116431	0.992387
PhCCCH3+H	0.000213548	0.998812	0.00116061	0.993548
rad71	0.000200475	0.999013	0.00108956	0.994637
rad19syn	0.000163989	0.999177	0.000891258	0.995528
PAH10+CH3	0.000121669	0.999298	0.000661258	0.996190
rad60syn	0.000108395	0.999407	0.000589113	0.996779
rad60anti	8.05429e-05	0.999487	0.000437740	0.997217
rad52	7.93951e-05	0.999567	0.000431502	0.997648
rad58	7.77777e-05	0.999645	0.000422712	0.998071
PAH1+H	7.75751e-05	0.999722	0.000421611	0.998492
rad73	7.39681e-05	0.999796	0.000402007	0.998894
PhcycC3H3_A+H	3.99767e-05	0.999836	0.000217269	0.999112
rad70	3.10467e-05	0.999867	0.000168735	0.999280
PAH8+H	2.96255e-05	0.999897	0.000161011	0.999441
rad72	2.85268e-05	0.999925	0.000155040	0.999596
rad34	1.30814e-05	0.999938	7.10959e-05	0.999668
rad37	1.30536e-05	0.999951	7.09448e-05	0.999739
rad54	1.00662e-05	0.999961	5.47088e-05	0.999793
rad65	9.80956e-06	0.999971	5.33137e-05	0.999847
rad68syn	3.69405e-06	0.999975	2.00767e-05	0.999867
rad68anti	2.35186e-06	0.999977	1.27820e-05	0.999879
rad40syn	2.32622e-06	0.999980	1.26427e-05	0.999892
rad64	2.20921e-06	0.999982	1.20068e-05	0.999904
rad23	2.15518e-06	0.999984	1.17132e-05	0.999916
rad56	1.95414e-06	0.999986	1.06205e-05	0.999926
rad40anti	1.75704e-06	0.999988	9.54928e-06	0.999936

rad20	1.63571e-06	0.999989	8.88988e-06	0.999945
rad53	1.19070e-06	0.999991	6.47128e-06	0.999951
rad55	1.16302e-06	0.999992	6.32087e-06	0.999958
rad9	1.08559e-06	0.999993	5.90002e-06	0.999964
rad62	1.07819e-06	0.999994	5.85982e-06	0.999969
rad61	9.64431e-07	0.999995	5.24156e-06	0.999975
rad45	9.22375e-07	0.999996	5.01299e-06	0.999980
rad6	7.08031e-07	0.999996	3.84806e-06	0.999983
rad21	6.41941e-07	0.999997	3.48887e-06	0.999987
rad22	4.38871e-07	0.999998	2.38467e-06	0.999989
rad43	4.20242e-07	0.999998	2.28396e-06	0.999992
rad11	4.04645e-07	0.999998	2.19919e-06	0.999994
rad42	2.26093e-07	0.999999	1.22878e-06	0.999995
rad8	1.81581e-07	0.999999	9.86868e-07	0.999996
rad36	1.69335e-07	0.999999	9.20317e-07	0.999997
rad18	1.52698e-07	0.999999	8.29894e-07	0.999998
rad15	9.65845e-08	0.999999	5.24924e-07	0.999998
rad41	9.48873e-08	0.999999	5.15700e-07	0.999999
rad47	8.16850e-08	0.999999	4.43948e-07	0.999999
rad12	4.97499e-08	0.999999	2.70385e-07	1.000000
rad24	4.15913e-08	0.999999	2.26043e-07	1.000000
rad28	3.31316e-08	0.999999	1.80066e-07	1.000000
rad7	3.04055e-08	1.000000	1.65250e-07	1.000000
rad26	1.09678e-08	1.000000	5.96086e-08	1.000000
rad13	5.02692e-09	1.000000	2.73207e-08	1.000000
rad10	4.91009e-09	1.000000	2.66858e-08	1.000000
rad25	3.94959e-09	1.000000	2.14655e-08	1.000000
rad5	1.93472e-09	1.000000	1.05150e-08	1.000000
rad33	5.63464e-10	1.000000	3.06236e-09	1.000000
rad2	4.30548e-10	1.000000	2.33997e-09	1.000000
rad1	2.24615e-10	1.000000	1.22075e-09	1.000000
rad14	8.87850e-11	1.000000	4.82535e-10	1.000000
rad27	4.17726e-11	1.000000	2.27029e-10	1.000000
rad3	1.51096e-11	1.000000	8.21189e-11	1.000000
rad4	8.48096e-12	1.000000	4.60929e-11	1.000000

10000.0000 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.960581	0.960581	0.960581	0.960581
rad21	0.0340646	0.994646	0.0340646	0.994646
rad18	0.00494986	0.999595	0.00494986	0.999595
rad22	0.000379079	0.999975	0.000379079	0.999975
rad45	1.28463e-05	0.999987	1.28463e-05	0.999987
Indene+H	1.16413e-05	0.999999	1.16413e-05	0.999999
rad36	8.22739e-07	1.000000	8.22739e-07	1.000000
rad24	3.76295e-07	1.000000	3.76295e-07	1.000000
rad11	3.92135e-08	1.000000	3.92135e-08	1.000000
rad23	9.27875e-09	1.000000	9.27875e-09	1.000000
Benzyl+C2H2	8.43911e-09	1.000000	0.000000	1.000000
rad6	4.36146e-13	1.000000	4.36146e-13	1.000000
rad30	3.78359e-19	1.000000	3.78359e-19	1.000000
rad13	1.75587e-20	1.000000	1.75587e-20	1.000000
rad7	3.40787e-21	1.000000	3.40787e-21	1.000000
rad15	7.52308e-22	1.000000	7.52308e-22	1.000000
rad33	2.63160e-23	1.000000	2.63160e-23	1.000000
rad38	1.38039e-23	1.000000	1.38039e-23	1.000000
rad25	4.15544e-24	1.000000	4.15544e-24	1.000000
rad35	7.34480e-26	1.000000	7.34480e-26	1.000000
PAH9+H	3.27925e-26	1.000000	3.27925e-26	1.000000
rad3	6.47992e-28	1.000000	6.47992e-28	1.000000
rad4	3.42473e-28	1.000000	3.42473e-28	1.000000
PhCHCCH2+H	3.85690e-29	1.000000	3.85690e-29	1.000000
rad46	1.13546e-30	1.000000	1.13546e-30	1.000000
rad8	5.77227e-31	1.000000	5.77227e-31	1.000000
rad9	1.17023e-31	1.000000	1.17023e-31	1.000000
rad28	6.37734e-32	1.000000	6.37734e-32	1.000000
rad60syn	7.76494e-34	1.000000	7.76494e-34	1.000000
rad2	4.54282e-34	1.000000	4.54282e-34	1.000000
Ph+Allene	5.46782e-35	1.000000	5.46782e-35	1.000000
rad60anti	3.42910e-35	1.000000	3.42910e-35	1.000000
rad1	3.22233e-35	1.000000	3.22233e-35	1.000000
rad31	2.52951e-37	1.000000	2.52951e-37	1.000000
PAH7+H	9.57365e-39	1.000000	9.57365e-39	1.000000
PhCCH+CH3	1.00188e-39	1.000000	1.00188e-39	1.000000

rad14	7.72458e-40	1.00000	7.72458e-40	1.00000
PhCH2CCH+H	6.56911e-40	1.00000	6.56911e-40	1.00000
rad10	1.54084e-40	1.00000	1.54084e-40	1.00000
PAH3+H	2.35624e-42	1.00000	2.35624e-42	1.00000
rad59	1.16510e-42	1.00000	1.16510e-42	1.00000
rad26	5.87176e-43	1.00000	5.87176e-43	1.00000
rad27	1.28035e-44	1.00000	1.28035e-44	1.00000
rad39	1.89255e-45	1.00000	1.89255e-45	1.00000
rad50	4.23536e-46	1.00000	4.23536e-46	1.00000
Ph+MeAc	3.79160e-46	1.00000	3.79160e-46	1.00000
PhCCCH3+H	2.04870e-46	1.00000	2.04870e-46	1.00000
rad12	1.82165e-51	1.00000	1.82165e-51	1.00000
rad37	3.85460e-53	1.00000	3.85460e-53	1.00000
rad52	1.41277e-54	1.00000	1.41277e-54	1.00000
rad5	1.08173e-57	1.00000	1.08173e-57	1.00000
rad19syn	7.41848e-59	1.00000	7.41848e-59	1.00000
rad51	1.90034e-59	1.00000	1.90034e-59	1.00000
rad54	1.56245e-60	1.00000	1.56245e-60	1.00000
rad58	1.05411e-61	1.00000	1.05411e-61	1.00000
rad70	1.70898e-62	1.00000	1.70898e-62	1.00000
PAH10+CH3	9.16679e-65	1.00000	9.16679e-65	1.00000
rad65	6.82036e-65	1.00000	6.82036e-65	1.00000
rad62	1.98112e-66	1.00000	1.98112e-66	1.00000
rad55	6.67081e-67	1.00000	6.67081e-67	1.00000
rad47	5.34250e-67	1.00000	5.34250e-67	1.00000
PhcycC3H3_A+H	1.01132e-67	1.00000	1.01132e-67	1.00000
rad34	7.46620e-68	1.00000	7.46620e-68	1.00000
rad43	2.13868e-68	1.00000	2.13868e-68	1.00000
PAH1+H	2.73285e-72	1.00000	2.73285e-72	1.00000
rad42	8.73424e-77	1.00000	8.73424e-77	1.00000
rad41	5.45393e-80	1.00000	5.45393e-80	1.00000

10000.0000 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15918e-108 (1.00)	1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.924121	0.924121	0.924121	0.924121
rad21	0.0645408	0.988662	0.0645408	0.988662
rad18	0.00976289	0.998425	0.00976289	0.998425
rad22	0.00147283	0.999898	0.00147283	0.999898
rad45	5.14243e-05	0.999949	5.14243e-05	0.999949
Indene+H	4.68001e-05	0.999996	4.68001e-05	0.999996
rad36	3.24830e-06	0.999999	3.24830e-06	0.999999
rad24	2.53307e-07	0.999999	2.53307e-07	0.999999
rad11	1.56773e-07	0.999999	1.56773e-07	0.999999
rad23	7.79688e-08	0.999999	7.79688e-08	0.999999
Benzyl+C2H2	1.93401e-08	1.000000	0.000000	0.999999
rad6	3.57270e-12	1.000000	3.57270e-12	0.999999
rad30	1.70894e-18	1.000000	1.70894e-18	0.999999
rad13	2.89163e-19	1.000000	2.89163e-19	0.999999
rad7	5.70924e-20	1.000000	5.70924e-20	0.999999
rad15	3.37475e-21	1.000000	3.37475e-21	0.999999
rad33	4.32711e-22	1.000000	4.32711e-22	0.999999
rad38	1.31958e-22	1.000000	1.31958e-22	0.999999
rad25	3.41224e-23	1.000000	3.41224e-23	0.999999
rad35	1.37607e-24	1.000000	1.37607e-24	0.999999
PAH9+H	6.11603e-25	1.000000	6.11603e-25	0.999999
rad3	2.22043e-26	1.000000	2.22043e-26	0.999999
rad4	1.15408e-26	1.000000	1.15408e-26	0.999999
PhCHCCH2+H	2.81192e-28	1.000000	2.81192e-28	0.999999
rad46	9.34632e-30	1.000000	9.34632e-30	0.999999
rad28	2.08238e-30	1.000000	2.08238e-30	0.999999
rad8	1.15789e-30	1.000000	1.15789e-30	0.999999
rad9	8.00813e-31	1.000000	8.00813e-31	0.999999
rad2	3.08775e-32	1.000000	3.08775e-32	0.999999
rad60syn	3.19633e-33	1.000000	3.19633e-33	0.999999
rad1	2.09598e-33	1.000000	2.09598e-33	0.999999
Ph+Allene	3.27288e-34	1.000000	3.27288e-34	0.999999
rad60anti	1.38997e-34	1.000000	1.38997e-34	0.999999
rad31	7.51282e-36	1.000000	7.51282e-36	0.999999
PhCCH+CH3	5.79604e-38	1.000000	5.79604e-38	0.999999
rad14	4.75197e-38	1.000000	4.75197e-38	0.999999
PAH7+H	2.26408e-38	1.000000	2.26408e-38	0.999999
rad10	2.04204e-38	1.000000	2.04204e-38	0.999999
PhCH2CCH+H	3.29029e-39	1.000000	3.29029e-39	0.999999
PAH3+H	8.26642e-42	1.000000	8.26642e-42	0.999999

rad59	4.10265e-42	1.000000	4.10265e-42	0.999999
rad27	1.60394e-42	1.000000	1.60394e-42	0.999999
rad26	1.18553e-42	1.000000	1.18553e-42	0.999999
PhCCCH3+H	2.29156e-44	1.000000	2.29156e-44	0.999999
Ph+MeAc	1.67307e-44	1.000000	1.67307e-44	0.999999
rad39	1.01487e-44	1.000000	1.01487e-44	0.999999
rad50	2.31918e-45	1.000000	2.31918e-45	0.999999
rad12	7.29117e-51	1.000000	7.29117e-51	0.999999
rad37	1.52522e-52	1.000000	1.52522e-52	0.999999
rad52	6.50425e-54	1.000000	6.50425e-54	0.999999
rad5	7.45408e-56	1.000000	7.45408e-56	0.999999
rad19syn	1.27997e-57	1.000000	1.27997e-57	0.999999
rad51	7.97842e-59	1.000000	7.97842e-59	0.999999
rad54	1.36247e-59	1.000000	1.36247e-59	0.999999
rad58	1.45245e-61	1.000000	1.45245e-61	0.999999
rad70	8.37453e-62	1.000000	8.37453e-62	0.999999
rad65	5.99419e-64	1.000000	5.99419e-64	0.999999
PAH10+CH3	2.19865e-64	1.000000	2.19865e-64	0.999999
rad62	7.62076e-65	1.000000	7.62076e-65	0.999999
rad55	4.81457e-66	1.000000	4.81457e-66	0.999999
rad47	1.80663e-66	1.000000	1.80663e-66	0.999999
rad43	1.66033e-66	1.000000	1.66033e-66	0.999999
PhcycC3H3_A+H	1.36916e-66	1.000000	1.36916e-66	0.999999
rad34	2.84068e-67	1.000000	2.84068e-67	0.999999
PAH1+H	5.12567e-72	1.000000	5.12567e-72	0.999999
rad42	2.09913e-75	1.000000	2.09913e-75	0.999999
rad41	2.31635e-78	1.000000	2.31635e-78	0.999999

10000.0000 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.891567	0.891567	0.891567	0.891567
rad21	0.0907773	0.982344	0.0907773	0.982344
rad18	0.0142881	0.996632	0.0142882	0.996633
rad22	0.00314495	0.999777	0.00314495	0.999777
rad45	0.000111338	0.999889	0.000111338	0.999889
Indene+H	0.000103377	0.999992	0.000103377	0.999992
rad36	6.99732e-06	0.999999	6.99732e-06	0.999999
rad11	3.50958e-07	0.999999	3.50958e-07	1.000000
rad23	2.56751e-07	1.000000	2.56751e-07	1.000000
rad24	1.73248e-07	1.000000	1.73248e-07	1.000000
Benzyl+C2H2	3.69331e-08	1.000000	0.000000	1.000000
rad6	1.22860e-11	1.000000	1.22860e-11	1.000000
rad30	5.05802e-18	1.000000	5.05802e-18	1.000000
rad13	1.49825e-18	1.000000	1.49825e-18	1.000000
rad7	3.01734e-19	1.000000	3.01734e-19	1.000000
rad15	1.02206e-20	1.000000	1.02206e-20	1.000000
rad33	2.26175e-21	1.000000	2.26175e-21	1.000000
rad38	5.65814e-22	1.000000	5.65814e-22	1.000000
rad25	1.40372e-22	1.000000	1.40372e-22	1.000000
rad35	8.21873e-24	1.000000	8.21873e-24	1.000000
PAH9+H	3.71400e-24	1.000000	3.71400e-24	1.000000
rad3	1.85086e-25	1.000000	1.85086e-25	1.000000
rad4	9.55507e-26	1.000000	9.55507e-26	1.000000
PhCHCCH2+H	1.13002e-27	1.000000	1.13002e-27	1.000000
rad46	4.06687e-29	1.000000	4.06687e-29	1.000000
rad28	1.81683e-29	1.000000	1.81683e-29	1.000000
rad9	3.16709e-30	1.000000	3.16709e-30	1.000000
rad8	2.57067e-30	1.000000	2.57067e-30	1.000000
rad2	3.94209e-31	1.000000	3.94209e-31	1.000000
rad1	2.63016e-32	1.000000	2.63016e-32	1.000000
rad60syn	1.02702e-32	1.000000	1.02702e-32	1.000000
Ph+Allene	1.25246e-33	1.000000	1.25246e-33	1.000000
rad60anti	4.46426e-34	1.000000	4.46426e-34	1.000000
rad31	5.99636e-35	1.000000	5.99636e-35	1.000000
PhCCH+CH3	7.24491e-37	1.000000	7.24491e-37	1.000000
rad14	6.05769e-37	1.000000	6.05769e-37	1.000000
rad10	3.88228e-37	1.000000	3.88228e-37	1.000000
PAH7+H	5.22663e-38	1.000000	5.22663e-38	1.000000
PhCH2CCH+H	1.20792e-38	1.000000	1.20792e-38	1.000000
rad27	3.03352e-41	1.000000	3.03352e-41	1.000000
PAH3+H	2.50528e-41	1.000000	2.50528e-41	1.000000
rad59	1.24592e-41	1.000000	1.24592e-41	1.000000
rad26	2.57944e-42	1.000000	2.57944e-42	1.000000
PhCCCH3+H	4.19496e-43	1.000000	4.19496e-43	1.000000

Ph+MeAc	1.89264e-43	1.000000	1.89264e-43	1.000000
rad39	3.64833e-44	1.000000	3.64833e-44	1.000000
rad50	1.01861e-44	1.000000	1.01861e-44	1.000000
rad12	2.32722e-50	1.000000	2.32722e-50	1.000000
rad37	4.84760e-52	1.000000	4.84760e-52	1.000000
rad52	3.02973e-53	1.000000	3.02973e-53	1.000000
rad5	1.15894e-54	1.000000	1.15894e-54	1.000000
rad19syn	1.01696e-56	1.000000	1.01696e-56	1.000000
rad51	3.98527e-58	1.000000	3.98527e-58	1.000000
rad54	7.44335e-59	1.000000	7.44335e-59	1.000000
rad70	3.38808e-61	1.000000	3.38808e-61	1.000000
rad58	2.42944e-61	1.000000	2.42944e-61	1.000000
rad65	3.93220e-63	1.000000	3.93220e-63	1.000000
rad62	9.63791e-64	1.000000	9.63791e-64	1.000000
PAH10+CH3	5.59639e-64	1.000000	5.59639e-64	1.000000
rad43	3.04215e-65	1.000000	3.04215e-65	1.000000
rad55	2.53586e-65	1.000000	2.53586e-65	1.000000
PhcycC3H3_A+H	1.02560e-65	1.000000	1.02560e-65	1.000000
rad47	9.46327e-66	1.000000	9.46327e-66	1.000000
rad34	1.03854e-66	1.000000	1.03854e-66	1.000000
PAH1+H	1.69118e-71	1.000000	1.69118e-71	1.000000
rad42	2.26181e-74	1.000000	2.26181e-74	1.000000
rad41	3.51155e-77	1.000000	3.51155e-77	1.000000

10000.0000 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.31816e-70 (1.00)	2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.861736	0.861736	0.861736	0.861736
rad21	0.113885	0.975621	0.113885	0.975621
rad18	0.0186547	0.994276	0.0186547	0.994276
rad22	0.00533735	0.999613	0.00533735	0.999613
rad45	0.000191650	0.999805	0.000191650	0.999805
Indene+H	0.000181548	0.999986	0.000181548	0.999986
rad36	1.20086e-05	0.999998	1.20086e-05	0.999998
rad11	6.32450e-07	0.999999	6.32450e-07	0.999999
rad23	5.93965e-07	0.999999	5.93965e-07	0.999999
rad24	1.26060e-07	1.000000	1.26060e-07	1.000000
Benzyl+C2H2	6.60017e-08	1.000000	0.000000	1.000000
rad6	3.06003e-11	1.000000	3.06003e-11	1.000000
rad30	1.37381e-17	1.000000	1.37381e-17	1.000000
rad13	5.05834e-18	1.000000	5.05834e-18	1.000000
rad7	1.04203e-18	1.000000	1.04203e-18	1.000000
rad15	2.90744e-20	1.000000	2.90744e-20	1.000000
rad33	7.75966e-21	1.000000	7.75966e-21	1.000000
rad38	1.92531e-21	1.000000	1.92531e-21	1.000000
rad25	4.84306e-22	1.000000	4.84306e-22	1.000000
rad35	3.30422e-23	1.000000	3.30422e-23	1.000000
PAH9+H	1.54642e-23	1.000000	1.54642e-23	1.000000
rad3	9.29739e-25	1.000000	9.29739e-25	1.000000
rad4	4.78276e-25	1.000000	4.78276e-25	1.000000
PhCHCCH2+H	4.08225e-27	1.000000	4.08225e-27	1.000000
rad46	1.57782e-28	1.000000	1.57782e-28	1.000000
rad28	1.03063e-28	1.000000	1.03063e-28	1.000000
rad9	1.16169e-29	1.000000	1.16169e-29	1.000000
rad8	6.78832e-30	1.000000	6.78832e-30	1.000000
rad2	2.80202e-30	1.000000	2.80202e-30	1.000000
rad1	1.85346e-31	1.000000	1.85346e-31	1.000000
rad60syn	3.41844e-32	1.000000	3.41844e-32	1.000000
Ph+Allene	4.72383e-33	1.000000	4.72383e-33	1.000000
rad60anti	1.50023e-33	1.000000	1.50023e-33	1.000000
rad31	2.98217e-34	1.000000	2.98217e-34	1.000000
PhCCH+CH3	5.61724e-36	1.000000	5.61724e-36	1.000000
rad14	4.64595e-36	1.000000	4.64595e-36	1.000000
rad10	3.75904e-36	1.000000	3.75904e-36	1.000000
PAH7+H	1.43769e-37	1.000000	1.43769e-37	1.000000
PhCH2CCH+H	4.67023e-38	1.000000	4.67023e-38	1.000000
rad27	3.03880e-40	1.000000	3.03880e-40	1.000000
PAH3+H	8.47416e-41	1.000000	8.47416e-41	1.000000
rad59	4.21763e-41	1.000000	4.21763e-41	1.000000
rad26	7.05355e-42	1.000000	7.05355e-42	1.000000
PhCCCH3+H	4.31215e-42	1.000000	4.31215e-42	1.000000
Ph+MeAc	1.48653e-42	1.000000	1.48653e-42	1.000000
rad39	1.34105e-43	1.000000	1.34105e-43	1.000000
rad50	5.27437e-44	1.000000	5.27437e-44	1.000000
rad12	8.29448e-50	1.000000	8.29448e-50	1.000000

rad37	1.72705e-51	1.000000	1.72705e-51	1.000000
rad52	1.95346e-52	1.000000	1.95346e-52	1.000000
rad5	1.23435e-53	1.000000	1.23435e-53	1.000000
rad19syn	7.33057e-56	1.000000	7.33057e-56	1.000000
rad51	3.06871e-57	1.000000	3.06871e-57	1.000000
rad54	4.25434e-58	1.000000	4.25434e-58	1.000000
rad70	1.64869e-60	1.000000	1.64869e-60	1.000000
rad58	5.83628e-61	1.000000	5.83628e-61	1.000000
rad65	3.19113e-62	1.000000	3.19113e-62	1.000000
rad62	1.01707e-62	1.000000	1.01707e-62	1.000000
PAH10+CH3	1.92826e-63	1.000000	1.92826e-63	1.000000
rad43	4.11111e-64	1.000000	4.11112e-64	1.000000
rad55	1.50335e-64	1.000000	1.50335e-64	1.000000
rad47	8.89036e-65	1.000000	8.89036e-65	1.000000
PhcycC3H3_A+H	7.70000e-65	1.000000	7.70000e-65	1.000000
rad34	4.94541e-66	1.000000	4.94541e-66	1.000000
PAH1+H	1.02064e-70	1.000000	1.02064e-70	1.000000
rad42	2.38218e-73	1.000000	2.38218e-73	1.000000
rad41	4.87216e-76	1.000000	4.87217e-76	1.000000

10000.0000 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.44107e-61 (1.00)	8.44107e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.833971	0.833971	0.833971	0.833971
rad21	0.134474	0.968445	0.134474	0.968445
rad18	0.0229346	0.991380	0.0229346	0.991380
rad22	0.00802423	0.999404	0.00802423	0.999404
rad45	0.000292645	0.999696	0.000292645	0.999696
Indene+H	0.000282627	0.999979	0.000282627	0.999979
rad36	1.82972e-05	0.999997	1.82972e-05	0.999997
rad23	1.14296e-06	0.999999	1.14296e-06	0.999999
rad11	1.01846e-06	1.000000	1.01846e-06	1.000000
Benzyl+C2H2	1.12517e-07	1.000000	0.000000	1.000000
rad24	9.65583e-08	1.000000	9.65583e-08	1.000000
rad6	6.46400e-11	1.000000	6.46400e-11	1.000000
rad30	3.78182e-17	1.000000	3.78182e-17	1.000000
rad13	1.37534e-17	1.000000	1.37534e-17	1.000000
rad7	2.90751e-18	1.000000	2.90751e-18	1.000000
rad15	8.54643e-20	1.000000	8.54643e-20	1.000000
rad33	2.15597e-20	1.000000	2.15597e-20	1.000000
rad38	6.07465e-21	1.000000	6.07465e-21	1.000000
rad25	1.62549e-21	1.000000	1.62549e-21	1.000000
rad35	1.09865e-22	1.000000	1.09865e-22	1.000000
PAH9+H	5.43710e-23	1.000000	5.43710e-23	1.000000
rad3	3.66626e-24	1.000000	3.66626e-24	1.000000
rad4	1.88214e-24	1.000000	1.88214e-24	1.000000
PhCHCCH2+H	1.51053e-26	1.000000	1.51053e-26	1.000000
rad46	6.26413e-28	1.000000	6.26413e-28	1.000000
rad28	4.93642e-28	1.000000	4.93642e-28	1.000000
rad9	4.45664e-29	1.000000	4.45664e-29	1.000000
rad8	2.13633e-29	1.000000	2.13633e-29	1.000000
rad2	1.52700e-29	1.000000	1.52700e-29	1.000000
rad1	1.00547e-30	1.000000	1.00547e-30	1.000000
rad60syn	1.25883e-31	1.000000	1.25883e-31	1.000000
Ph+Allene	1.93648e-32	1.000000	1.93648e-32	1.000000
rad60anti	5.61710e-33	1.000000	5.61710e-33	1.000000
rad31	1.18468e-33	1.000000	1.18468e-33	1.000000
PhCCH+CH3	3.65438e-35	1.000000	3.65438e-35	1.000000
rad14	2.92225e-35	1.000000	2.92225e-35	1.000000
rad10	2.69572e-35	1.000000	2.69572e-35	1.000000
PAH7+H	4.79399e-37	1.000000	4.79399e-37	1.000000
PhCH2CCH+H	2.04174e-37	1.000000	2.04174e-37	1.000000
rad27	2.32882e-39	1.000000	2.32883e-39	1.000000
PAH3+H	3.34817e-40	1.000000	3.34817e-40	1.000000
rad59	1.66616e-40	1.000000	1.66616e-40	1.000000
PhCCCH3+H	3.54126e-41	1.000000	3.54126e-41	1.000000
rad26	2.42471e-41	1.000000	2.42471e-41	1.000000
Ph+MeAc	1.05808e-41	1.000000	1.05808e-41	1.000000
rad39	5.50072e-43	1.000000	5.50072e-43	1.000000
rad50	3.45266e-43	1.000000	3.45266e-43	1.000000
rad12	3.48544e-49	1.000000	3.48544e-49	1.000000
rad37	7.27387e-51	1.000000	7.27387e-51	1.000000
rad52	1.79363e-51	1.000000	1.79363e-51	1.000000
rad5	1.19775e-52	1.000000	1.19775e-52	1.000000
rad19syn	5.56831e-55	1.000000	5.56831e-55	1.000000

rad51	3.61570e-56	1.000000	3.61570e-56	1.000000
rad54	2.77866e-57	1.000000	2.77866e-57	1.000000
rad70	9.98539e-60	1.000000	9.98540e-60	1.000000
rad58	1.96309e-60	1.000000	1.96309e-60	1.000000
rad65	3.74344e-61	1.000000	3.74344e-61	1.000000
rad62	1.10364e-61	1.000000	1.10364e-61	1.000000
PAH10+CH3	9.49231e-63	1.000000	9.49231e-63	1.000000
rad43	5.37400e-63	1.000000	5.37400e-63	1.000000
rad47	1.40297e-63	1.000000	1.40297e-63	1.000000
rad55	1.06149e-63	1.000000	1.06149e-63	1.000000
PhcycC3H3_A+H	6.46983e-64	1.000000	6.46983e-64	1.000000
rad34	3.06913e-65	1.000000	3.06913e-65	1.000000
PAH1+H	1.03238e-69	1.000000	1.03238e-69	1.000000
rad42	2.84917e-72	1.000000	2.84917e-72	1.000000
rad41	7.49931e-75	1.000000	7.49931e-75	1.000000

10000.0000 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.61998e-54 (1.00)	5.61998e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.807831	0.807831	0.807831	0.807831
rad21	0.152936	0.960767	0.152936	0.960767
rad18	0.0271792	0.987946	0.0271792	0.987946
rad22	0.0112001	0.999146	0.0112001	0.999146
rad45	0.000415477	0.999562	0.000415477	0.999562
Indene+H	0.000408911	0.999971	0.000408911	0.999971
rad36	2.59335e-05	0.999997	2.59335e-05	0.999997
rad23	1.96753e-06	0.999999	1.96753e-06	0.999999
rad11	1.53347e-06	1.00000	1.53347e-06	1.00000
Benzyl+C2H2	1.85211e-07	1.00000	0.00000	1.00000
rad24	7.69883e-08	1.00000	7.69883e-08	1.00000
rad6	1.24114e-10	1.00000	1.24114e-10	1.00000
rad30	1.12537e-16	1.00000	1.12537e-16	1.00000
rad13	3.30693e-17	1.00000	3.30693e-17	1.00000
rad7	7.20402e-18	1.00000	7.20402e-18	1.00000
rad15	2.78153e-19	1.00000	2.78154e-19	1.00000
rad33	5.32301e-20	1.00000	5.32301e-20	1.00000
rad38	1.90285e-20	1.00000	1.90285e-20	1.00000
rad25	5.79226e-21	1.00000	5.79226e-21	1.00000
rad35	3.29171e-22	1.00000	3.29171e-22	1.00000
PAH9+H	1.76109e-22	1.00000	1.76109e-22	1.00000
rad3	1.27926e-23	1.00000	1.27926e-23	1.00000
rad4	6.55943e-24	1.00000	6.55943e-24	1.00000
PhCHCCH2+H	6.22437e-26	1.00000	6.22437e-26	1.00000
rad46	2.75274e-27	1.00000	2.75274e-27	1.00000
rad28	2.27618e-27	1.00000	2.27618e-27	1.00000
rad9	1.93390e-28	1.00000	1.93390e-28	1.00000
rad8	8.25590e-29	1.00000	8.25590e-29	1.00000
rad2	7.41887e-29	1.00000	7.41887e-29	1.00000
rad1	4.87400e-30	1.00000	4.87400e-30	1.00000
rad60syn	5.42757e-31	1.00000	5.42757e-31	1.00000
Ph+Allene	9.22202e-32	1.00000	9.22202e-32	1.00000
rad60anti	2.47541e-32	1.00000	2.47541e-32	1.00000
rad31	4.21219e-33	1.00000	4.21220e-33	1.00000
PhCCH+CH3	2.33331e-34	1.00000	2.33331e-34	1.00000
rad14	1.76649e-34	1.00000	1.76650e-34	1.00000
rad10	1.71615e-34	1.00000	1.71615e-34	1.00000
PAH7+H	1.99602e-36	1.00000	1.99602e-36	1.00000
PhCH2CCH+H	1.06434e-36	1.00000	1.06434e-36	1.00000
rad27	1.63990e-38	1.00000	1.63990e-38	1.00000
PAH3+H	1.61319e-39	1.00000	1.61319e-39	1.00000
rad59	8.02108e-40	1.00000	8.02108e-40	1.00000
PhCCCH3+H	2.77805e-40	1.00000	2.77805e-40	1.00000
rad26	1.07005e-40	1.00000	1.07005e-40	1.00000
Ph+MeAc	7.84069e-41	1.00000	7.84069e-41	1.00000
rad50	2.98170e-42	1.00000	2.98170e-42	1.00000
rad39	2.67169e-42	1.00000	2.67169e-42	1.00000
rad12	1.80672e-48	1.00000	1.80672e-48	1.00000
rad37	3.78803e-50	1.00000	3.78803e-50	1.00000
rad52	2.36915e-50	1.00000	2.36915e-50	1.00000
rad5	1.22159e-51	1.00000	1.22159e-51	1.00000
rad19syn	4.84015e-54	1.00000	4.84015e-54	1.00000
rad51	6.42442e-55	1.00000	6.42442e-55	1.00000
rad54	2.18631e-56	1.00000	2.18631e-56	1.00000
rad70	7.71026e-59	1.00000	7.71027e-59	1.00000
rad58	9.21585e-60	1.00000	9.21585e-60	1.00000

rad65	6.95060e-60	1.00000	6.95061e-60	1.00000
rad62	1.36757e-60	1.00000	1.36757e-60	1.00000
rad43	7.74780e-62	1.00000	7.74781e-62	1.00000
PAH10+CH3	7.72698e-62	1.00000	7.72698e-62	1.00000
rad47	3.54702e-62	1.00000	3.54702e-62	1.00000
rad55	9.26369e-63	1.00000	9.26369e-63	1.00000
PhcycC3H3_A+H	6.46739e-63	1.00000	6.46739e-63	1.00000
rad34	2.50004e-64	1.00000	2.50004e-64	1.00000
PAH1+H	1.91964e-68	1.00000	1.91964e-68	1.00000
rad42	4.18615e-71	1.00000	4.18615e-71	1.00000
rad41	1.40866e-73	1.00000	1.40866e-73	1.00000

10000.0000 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.28864e-49 (1.00)	7.28864e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.782983	0.782983	0.782983	0.782983
rad21	0.169543	0.952526	0.169543	0.952526
rad18	0.0314314	0.983957	0.0314314	0.983957
rad22	0.0148761	0.998833	0.0148761	0.998833
Indene+H	0.000563799	0.999397	0.000563799	0.999397
rad45	0.000562149	0.999959	0.000562149	0.999959
rad36	3.50420e-05	0.999994	3.50420e-05	0.999994
rad23	3.14814e-06	0.999998	3.14814e-06	0.999998
rad11	2.21162e-06	1.000000	2.21162e-06	1.000000
Benzyl+C2H2	2.97081e-07	1.00000	0.00000	1.000000
rad24	6.33580e-08	1.00000	6.33581e-08	1.000000
rad6	2.24875e-10	1.00000	2.24875e-10	1.000000
rad30	3.77577e-16	1.00000	3.77577e-16	1.000000
rad13	7.39844e-17	1.00000	7.39845e-17	1.000000
rad7	1.66987e-17	1.00000	1.66987e-17	1.000000
rad15	1.07838e-18	1.00000	1.07838e-18	1.000000
rad33	1.22800e-19	1.00000	1.22800e-19	1.000000
rad38	6.05825e-20	1.00000	6.05825e-20	1.000000
rad25	2.35500e-20	1.00000	2.35500e-20	1.000000
rad35	9.28542e-22	1.00000	9.28542e-22	1.000000
PAH9+H	5.46626e-22	1.00000	5.46626e-22	1.000000
rad3	4.22446e-23	1.00000	4.22446e-23	1.000000
rad4	2.16469e-23	1.00000	2.16469e-23	1.000000
PhCHCCH2+H	3.14990e-25	1.00000	3.14990e-25	1.000000
rad46	1.43837e-26	1.00000	1.43837e-26	1.000000
rad28	1.09915e-26	1.00000	1.09915e-26	1.000000
rad9	1.04785e-27	1.00000	1.04785e-27	1.000000
rad8	4.24996e-28	1.00000	4.24996e-28	1.000000
rad2	3.51964e-28	1.00000	3.51964e-28	1.000000
rad1	2.31055e-29	1.00000	2.31055e-29	1.000000
rad60syn	3.00106e-30	1.00000	3.00106e-30	1.000000
Ph+Allene	5.61348e-31	1.00000	5.61348e-31	1.000000
rad60anti	1.40543e-31	1.00000	1.40543e-31	1.000000
rad31	1.42966e-32	1.00000	1.42966e-32	1.000000
PhCCH+CH3	1.66230e-33	1.00000	1.66230e-33	1.000000
rad14	1.15672e-33	1.00000	1.15672e-33	1.000000
rad10	1.09088e-33	1.00000	1.09088e-33	1.000000
PAH7+H	1.12272e-35	1.00000	1.12272e-35	1.000000
PhCH2CCH+H	7.23299e-36	1.00000	7.23299e-36	1.000000
rad27	1.20926e-37	1.00000	1.20926e-37	1.000000
PAH3+H	1.03095e-38	1.00000	1.03096e-38	1.000000
rad59	5.11897e-39	1.00000	5.11897e-39	1.000000
PhCCCH3+H	2.40271e-39	1.00000	2.40271e-39	1.000000
Ph+MeAc	6.89398e-40	1.00000	6.89398e-40	1.000000
rad26	6.52563e-40	1.00000	6.52563e-40	1.000000
rad50	3.59346e-41	1.00000	3.59346e-41	1.000000
rad39	1.68495e-41	1.00000	1.68495e-41	1.000000
rad12	1.26276e-47	1.00000	1.26276e-47	1.000000
rad52	4.63854e-49	1.00000	4.63854e-49	1.000000
rad37	2.66741e-49	1.00000	2.66741e-49	1.000000
rad5	1.49804e-50	1.00000	1.49804e-50	1.000000
rad19syn	5.33939e-53	1.00000	5.33939e-53	1.000000
rad51	1.74544e-53	1.00000	1.74544e-53	1.000000
rad54	2.26161e-55	1.00000	2.26161e-55	1.000000
rad70	8.14741e-58	1.00000	8.14741e-58	1.000000
rad65	2.11831e-58	1.00000	2.11831e-58	1.000000
rad58	6.40591e-59	1.00000	6.40592e-59	1.000000
rad62	2.17371e-59	1.00000	2.17371e-59	1.000000
rad47	1.42815e-60	1.00000	1.42815e-60	1.000000
rad43	1.40169e-60	1.00000	1.40169e-60	1.000000

PAH10+CH3	1.29032e-60	1.00000	1.29032e-60	1.000000
rad55	1.08133e-61	1.00000	1.08133e-61	1.000000
PhcycC3H3_A+H	8.42887e-62	1.00000	8.42888e-62	1.000000
rad34	2.84801e-63	1.00000	2.84801e-63	1.000000
PAH1+H	7.27765e-67	1.00000	7.27765e-67	1.000000
rad42	8.40680e-70	1.00000	8.40681e-70	1.000000
rad41	3.61888e-72	1.00000	3.61888e-72	1.000000

10000.0000 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.85154e-45 (1.00)	6.85153e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.759164	0.759164	0.759165	0.759165
rad21	0.184487	0.943651	0.184487	0.943652
rad18	0.0357297	0.979381	0.0357297	0.979382
rad22	0.0190769	0.998458	0.0190769	0.998459
Indene+H	0.000751964	0.999210	0.000751964	0.999211
rad45	0.000735513	0.999945	0.000735513	0.999946
rad36	4.58012e-05	0.999991	4.58012e-05	0.999992
rad23	4.78948e-06	0.999996	4.78948e-06	0.999997
rad11	3.09949e-06	0.999999	3.09949e-06	1.000000
Benzyl+C2H2	4.67412e-07	0.999999	0.000000	1.000000
rad24	5.34823e-08	0.999999	5.34823e-08	1.000000
rad6	3.93290e-10	0.999999	3.93290e-10	1.000000
rad30	1.39762e-15	0.999999	1.39762e-15	1.000000
rad13	1.58823e-16	0.999999	1.58823e-16	1.000000
rad7	3.74030e-17	0.999999	3.74030e-17	1.000000
rad15	5.17273e-18	0.999999	5.17273e-18	1.000000
rad33	2.72693e-19	0.999999	2.72694e-19	1.000000
rad38	1.93932e-19	0.999999	1.93932e-19	1.000000
rad25	1.12460e-19	0.999999	1.12460e-19	1.000000
rad35	2.52971e-21	0.999999	2.52971e-21	1.000000
PAH9+H	1.65369e-21	0.999999	1.65369e-21	1.000000
rad3	1.37528e-22	0.999999	1.37528e-22	1.000000
rad4	7.04528e-23	0.999999	7.04528e-23	1.000000
PhCHCCH2+H	2.21490e-24	0.999999	2.21490e-24	1.000000
rad46	9.46172e-26	0.999999	9.46173e-26	1.000000
rad28	5.78371e-26	0.999999	5.78371e-26	1.000000
rad9	8.19534e-27	0.999999	8.19534e-27	1.000000
rad8	3.45733e-27	0.999999	3.45733e-27	1.000000
rad2	1.72708e-27	0.999999	1.72708e-27	1.000000
rad1	1.13413e-28	0.999999	1.13413e-28	1.000000
rad60syn	2.49085e-29	0.999999	2.49086e-29	1.000000
Ph+Allene	5.13136e-30	0.999999	5.13137e-30	1.000000
rad60anti	1.20553e-30	0.999999	1.20553e-30	1.000000
rad31	4.81633e-32	0.999999	4.81633e-32	1.000000
PhCCH+CH3	1.48970e-32	0.999999	1.48970e-32	1.000000
rad14	8.98953e-33	0.999999	8.98954e-33	1.000000
rad10	7.51194e-33	0.999999	7.51195e-33	1.000000
PAH7+H	1.00691e-34	0.999999	1.00691e-34	1.000000
PhCH2CCH+H	7.54931e-35	0.999999	7.54931e-35	1.000000
rad27	1.03306e-36	0.999999	1.03306e-36	1.000000
PAH3+H	1.02780e-37	0.999999	1.02780e-37	1.000000
rad59	5.09339e-38	0.999999	5.09339e-38	1.000000
PhCCCH3+H	2.63928e-38	0.999999	2.63928e-38	1.000000
Ph+MeAc	8.53469e-39	0.999999	8.53470e-39	1.000000
rad26	6.45110e-39	0.999999	6.45110e-39	1.000000
rad50	6.48775e-40	0.999999	6.48776e-40	1.000000
rad39	1.63158e-40	0.999999	1.63158e-40	1.000000
rad12	1.41460e-46	0.999999	1.41460e-46	1.000000
rad52	1.41656e-47	0.999999	1.41656e-47	1.000000
rad37	3.02213e-48	0.999999	3.02213e-48	1.000000
rad5	2.65774e-49	0.999999	2.65774e-49	1.000000
rad19syn	8.89387e-52	0.999999	8.89387e-52	1.000000
rad51	7.55437e-52	0.999999	7.55438e-52	1.000000
rad54	3.62779e-54	0.999999	3.62779e-54	1.000000
rad70	1.37766e-56	0.999999	1.37766e-56	1.000000
rad65	1.07989e-56	0.999999	1.07989e-56	1.000000
rad58	7.81944e-58	0.999999	7.81944e-58	1.000000
rad62	5.32431e-58	0.999999	5.32431e-58	1.000000
rad47	9.41770e-59	0.999999	9.41770e-59	1.000000
PAH10+CH3	4.62503e-59	0.999999	4.62503e-59	1.000000
rad43	3.84478e-59	0.999999	3.84478e-59	1.000000
rad55	1.98335e-60	0.999999	1.98335e-60	1.000000
PhcycC3H3_A+H	1.69447e-60	0.999999	1.69447e-60	1.000000
rad34	5.32755e-62	0.999999	5.32756e-62	1.000000

PAH1+H	5.36292e-65	0.999999	5.36292e-65	1.000000
rad42	2.77896e-68	0.999999	2.77896e-68	1.000000
rad41	1.53191e-70	0.999999	1.53191e-70	1.000000

10000.0000 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02671e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.736164	0.736164	0.736165	0.736165
rad21	0.197898	0.934062	0.197898	0.934063
rad18	0.0401093	0.974171	0.0401093	0.974172
rad22	0.0238389	0.998010	0.0238389	0.998011
Indene+H	0.000979601	0.998990	0.000979602	0.998991
rad45	0.000939287	0.999929	0.000939288	0.999930
rad36	5.84446e-05	0.999988	5.84447e-05	0.999989
rad23	7.02983e-06	0.999995	7.02983e-06	0.999996
rad11	4.25984e-06	0.999999	4.25984e-06	1.000000
Benzyl+C2H2	7.24718e-07	1.000000	0.000000	1.000000
rad24	4.60914e-08	1.000000	4.60914e-08	1.000000
rad6	6.73736e-10	1.000000	6.73736e-10	1.000000
rad30	5.25614e-15	1.000000	5.25615e-15	1.000000
rad13	3.33522e-16	1.000000	3.33522e-16	1.000000
rad7	8.26879e-17	1.000000	8.26880e-17	1.000000
rad15	2.83347e-17	1.000000	2.83347e-17	1.000000
rad38	6.09553e-19	1.000000	6.09554e-19	1.000000
rad25	5.93702e-19	1.000000	5.93703e-19	1.000000
rad33	5.93209e-19	1.000000	5.93210e-19	1.000000
rad35	6.76193e-21	1.000000	6.76194e-21	1.000000
PAH9+H	4.91213e-21	1.000000	4.91214e-21	1.000000
rad3	4.51639e-22	1.000000	4.51640e-22	1.000000
rad4	2.31370e-22	1.000000	2.31371e-22	1.000000
PhCHCCH2+H	2.27351e-23	1.000000	2.27351e-23	1.000000
rad46	7.68177e-25	1.000000	7.68177e-25	1.000000
rad28	3.26916e-25	1.000000	3.26916e-25	1.000000
rad9	1.03938e-25	1.000000	1.03938e-25	1.000000
rad8	5.83822e-26	1.000000	5.83823e-26	1.000000
rad2	9.00451e-27	1.000000	9.00451e-27	1.000000
rad1	5.91978e-28	1.000000	5.91979e-28	1.000000
rad60syn	3.81360e-28	1.000000	3.81361e-28	1.000000
Ph+Allene	8.64079e-29	1.000000	8.64080e-29	1.000000
rad60anti	1.93826e-29	1.000000	1.93826e-29	1.000000
PhCCH+CH3	1.76098e-31	1.000000	1.76099e-31	1.000000
rad31	1.64539e-31	1.000000	1.64539e-31	1.000000
rad14	8.42275e-32	1.000000	8.42276e-32	1.000000
rad10	5.81967e-32	1.000000	5.81967e-32	1.000000
PAH7+H	1.85717e-33	1.000000	1.85717e-33	1.000000
PhCH2CCH+H	1.52324e-33	1.000000	1.52325e-33	1.000000
rad27	1.06562e-35	1.000000	1.06562e-35	1.000000
PAH3+H	2.03187e-36	1.000000	2.03187e-36	1.000000
rad59	1.00423e-36	1.000000	1.00423e-36	1.000000
PhCCCH3+H	4.00149e-37	1.000000	4.00150e-37	1.000000
Ph+MeAc	1.77942e-37	1.000000	1.77942e-37	1.000000
rad26	1.31098e-37	1.000000	1.31098e-37	1.000000
rad50	1.83464e-38	1.000000	1.83464e-38	1.000000
rad39	3.07831e-39	1.000000	3.07831e-39	1.000000
rad12	3.24758e-45	1.000000	3.24758e-45	1.000000
rad52	6.95775e-46	1.000000	6.95775e-46	1.000000
rad37	7.03198e-47	1.000000	7.03198e-47	1.000000
rad5	8.53820e-48	1.000000	8.53821e-48	1.000000
rad51	5.33691e-50	1.000000	5.33692e-50	1.000000
rad19syn	2.85151e-50	1.000000	2.85151e-50	1.000000
rad54	1.14721e-52	1.000000	1.14721e-52	1.000000
rad65	9.23594e-55	1.000000	9.23595e-55	1.000000
rad70	4.72945e-55	1.000000	4.72945e-55	1.000000
rad62	2.57784e-56	1.000000	2.57784e-56	1.000000
rad58	2.26302e-56	1.000000	2.26303e-56	1.000000
rad47	1.03281e-56	1.000000	1.03281e-56	1.000000
PAH10+CH3	3.12414e-57	1.000000	3.12415e-57	1.000000
rad43	2.04948e-57	1.000000	2.04948e-57	1.000000
rad55	7.26507e-59	1.000000	7.26507e-59	1.000000
PhcycC3H3_A+H	6.70326e-59	1.000000	6.70326e-59	1.000000
rad34	2.12275e-60	1.000000	2.12275e-60	1.000000
PAH1+H	7.00647e-63	1.000000	7.00647e-63	1.000000
rad42	1.96176e-66	1.000000	1.96176e-66	1.000000
rad41	1.37688e-68	1.000000	1.37688e-68	1.000000

10000.0000 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04931e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.713807	0.713807	0.713807	0.713807
rad21	0.209859	0.923666	0.209860	0.923667
rad18	0.0446030	0.968269	0.0446031	0.968270
rad22	0.0292079	0.997477	0.0292080	0.997478
Indene+H	0.00125475	0.998732	0.00125475	0.998733
rad45	0.00117809	0.999910	0.00117809	0.999911
rad36	7.32641e-05	0.999983	7.32641e-05	0.999984
rad23	1.00531e-05	0.999993	1.00531e-05	0.999994
rad11	5.77621e-06	0.999999	5.77621e-06	1.00000
Benzyl+C2H2	1.11094e-06	1.000000	0.00000	1.00000
rad24	4.04085e-08	1.000000	4.04085e-08	1.00000
rad6	1.14140e-09	1.000000	1.14140e-09	1.00000
rad30	1.86635e-14	1.000000	1.86635e-14	1.00000
rad13	6.93094e-16	1.000000	6.93094e-16	1.00000
rad7	1.82874e-16	1.000000	1.82874e-16	1.00000
rad15	1.53217e-16	1.000000	1.53217e-16	1.00000
rad25	3.11746e-18	1.000000	3.11746e-18	1.00000
rad38	1.84831e-18	1.000000	1.84832e-18	1.00000
rad33	1.27577e-18	1.000000	1.27578e-18	1.00000
rad35	1.79001e-20	1.000000	1.79001e-20	1.00000
PAH9+H	1.43790e-20	1.000000	1.43790e-20	1.00000
rad3	1.50916e-21	1.000000	1.50916e-21	1.00000
rad4	7.73329e-22	1.000000	7.73330e-22	1.00000
PhCHCCH2+H	2.85750e-22	1.000000	2.85751e-22	1.00000
rad46	6.76456e-24	1.000000	6.76457e-24	1.00000
rad8	2.51109e-24	1.000000	2.51109e-24	1.00000
rad28	1.89522e-24	1.000000	1.89522e-24	1.00000
rad9	1.82759e-24	1.000000	1.82759e-24	1.00000
rad2	4.97634e-26	1.000000	4.97635e-26	1.00000
rad60syn	1.12756e-26	1.000000	1.12756e-26	1.00000
rad1	3.27758e-27	1.000000	3.27759e-27	1.00000
Ph+Allene	2.81466e-27	1.000000	2.81466e-27	1.00000
rad60anti	6.61985e-28	1.000000	6.61985e-28	1.00000
PhCCH+CH3	2.50005e-30	1.000000	2.50005e-30	1.00000
rad14	8.81740e-31	1.000000	8.81741e-31	1.00000
rad31	5.74172e-31	1.000000	5.74172e-31	1.00000
rad10	5.01082e-31	1.000000	5.01082e-31	1.00000
PAH7+H	8.65023e-32	1.000000	8.65024e-32	1.00000
PhCH2CCH+H	6.87766e-32	1.000000	6.87767e-32	1.00000
rad27	1.27455e-34	1.000000	1.27455e-34	1.00000
PAH3+H	9.63192e-35	1.000000	9.63193e-35	1.00000
rad59	4.74196e-35	1.000000	4.74196e-35	1.00000
PhCCCH3+H	7.80741e-36	1.000000	7.80742e-36	1.00000
rad26	6.64275e-36	1.000000	6.64275e-36	1.00000
Ph+MeAc	6.25576e-36	1.000000	6.25576e-36	1.00000
rad50	7.83541e-37	1.000000	7.83542e-37	1.00000
rad39	1.32070e-37	1.000000	1.32070e-37	1.00000
rad12	1.83606e-43	1.000000	1.83607e-43	1.00000
rad52	5.25430e-44	1.000000	5.25431e-44	1.00000
rad37	4.00844e-45	1.000000	4.00844e-45	1.00000
rad5	5.51582e-46	1.000000	5.51583e-46	1.00000
rad51	5.85842e-48	1.000000	5.85843e-48	1.00000
rad19syn	2.09025e-48	1.000000	2.09025e-48	1.00000
rad54	8.52272e-51	1.000000	8.52273e-51	1.00000
rad65	1.24800e-52	1.000000	1.24800e-52	1.00000
rad70	3.92479e-53	1.000000	3.92479e-53	1.00000
rad62	2.91306e-54	1.000000	2.91306e-54	1.00000
rad58	1.85607e-54	1.000000	1.85607e-54	1.00000
rad47	1.78098e-54	1.000000	1.78098e-54	1.00000
PAH10+CH3	3.43791e-55	1.000000	3.43792e-55	1.00000
rad43	2.48598e-55	1.000000	2.48598e-55	1.00000
rad55	6.33758e-57	1.000000	6.33759e-57	1.00000
PhcycC3H3_A+H	6.23652e-57	1.000000	6.23653e-57	1.00000
rad34	2.14961e-58	1.000000	2.14961e-58	1.00000
PAH1+H	1.46676e-60	1.000000	1.46676e-60	1.00000
rad42	3.52255e-64	1.000000	3.52255e-64	1.00000
rad41	3.09733e-66	1.000000	3.09733e-66	1.00000

10000.0000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 5.87106e-37 (1.00) 5.87105e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.691944	0.691944	0.691945	0.691945
rad21	0.220417	0.912361	0.220418	0.912363
rad18	0.0492413	0.961602	0.0492414	0.961604
rad22	0.0352378	0.996840	0.0352378	0.996842
Indene+H	0.00158771	0.998428	0.00158771	0.998430
rad45	0.00145748	0.999885	0.00145748	0.999887
rad36	9.06114e-05	0.999976	9.06115e-05	0.999978
rad23	1.41044e-05	0.999990	1.41044e-05	0.999992
rad11	7.75853e-06	0.999998	7.75855e-06	1.000000
Benzyl+C2H2	1.68730e-06	0.999999	0.00000	1.000000
rad24	3.59375e-08	0.999999	3.59375e-08	1.000000
rad6	1.92399e-09	0.999999	1.92399e-09	1.000000
rad30	6.05879e-14	0.999999	6.05880e-14	1.000000
rad13	1.43355e-15	0.999999	1.43355e-15	1.000000
rad15	7.45001e-16	0.999999	7.45002e-16	1.000000
rad7	4.07661e-16	0.999999	4.07661e-16	1.000000
rad25	1.51366e-17	0.999999	1.51367e-17	1.000000
rad38	5.36759e-18	0.999999	5.36760e-18	1.000000
rad33	2.72079e-18	0.999999	2.72080e-18	1.000000
rad35	4.71406e-20	0.999999	4.71407e-20	1.000000
PAH9+H	4.15551e-20	0.999999	4.15552e-20	1.000000
rad3	5.12004e-21	0.999999	5.12005e-21	1.000000
PhCHCCH2+H	3.43792e-21	0.999999	3.43793e-21	1.000000
rad4	2.62486e-21	0.999999	2.62487e-21	1.000000
rad8	9.78918e-23	0.999999	9.78919e-23	1.000000
rad46	5.59990e-23	0.999999	5.59991e-23	1.000000
rad9	3.18219e-23	0.999999	3.18219e-23	1.000000
rad28	1.08086e-23	0.999999	1.08086e-23	1.000000
rad60syn	3.60182e-25	0.999999	3.60183e-25	1.000000
rad2	2.85203e-25	0.999999	2.85204e-25	1.000000
Ph+Allene	1.05774e-25	0.999999	1.05775e-25	1.000000
rad60anti	2.66386e-26	0.999999	2.66386e-26	1.000000
rad1	1.88306e-26	0.999999	1.88307e-26	1.000000
PhCCH+CH3	3.65610e-29	0.999999	3.65611e-29	1.000000
rad14	9.33983e-30	0.999999	9.33984e-30	1.000000
PAH7+H	7.66797e-30	0.999999	7.66799e-30	1.000000
PhCH2CCH+H	4.82654e-30	0.999999	4.82655e-30	1.000000
rad10	4.58751e-30	0.999999	4.58752e-30	1.000000
rad31	2.03998e-30	0.999999	2.03998e-30	1.000000
PAH3+H	7.78066e-33	0.999999	7.78067e-33	1.000000
rad59	3.81137e-33	0.999999	3.81138e-33	1.000000
rad27	1.62385e-33	0.999999	1.62385e-33	1.000000
rad26	5.86804e-34	0.999999	5.86805e-34	1.000000
Ph+MeAc	2.60235e-34	0.999999	2.60236e-34	1.000000
PhCCCH3+H	1.65216e-34	0.999999	1.65216e-34	1.000000
rad50	4.16903e-35	0.999999	4.16904e-35	1.000000
rad39	6.95236e-36	0.999999	6.95237e-36	1.000000
rad12	1.77694e-41	0.999999	1.77694e-41	1.000000
rad52	5.00301e-42	0.999999	5.00302e-42	1.000000
rad37	3.89814e-43	0.999999	3.89815e-43	1.000000
rad5	5.04708e-44	0.999999	5.04709e-44	1.000000
rad51	8.16946e-46	0.999999	8.16947e-46	1.000000
rad19syn	2.46876e-46	0.999999	2.46877e-46	1.000000
rad54	1.04196e-48	0.999999	1.04196e-48	1.000000
rad65	2.16724e-50	0.999999	2.16725e-50	1.000000
rad70	5.46218e-51	0.999999	5.46219e-51	1.000000
rad62	5.34419e-52	0.999999	5.34420e-52	1.000000
rad47	3.92680e-52	0.999999	3.92681e-52	1.000000
rad58	2.74703e-52	0.999999	2.74704e-52	1.000000
PAH10+CH3	4.87381e-53	0.999999	4.87382e-53	1.000000
rad43	4.77081e-53	0.999999	4.77082e-53	1.000000
PhcycC3H3_A+H	9.54941e-55	0.999999	9.54943e-55	1.000000
rad55	9.18196e-55	0.999999	9.18197e-55	1.000000
rad34	3.76629e-56	0.999999	3.76630e-56	1.000000
PAH1+H	3.95525e-58	0.999999	3.95526e-58	1.000000
rad42	1.10696e-61	0.999999	1.10696e-61	1.000000
rad41	1.19327e-63	0.999999	1.19327e-63	1.000000

10000.0000 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.94360e-35 (1.00)	3.94359e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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rad20	0.670451	0.670451	0.670453	0.670453
rad21	0.229591	0.900042	0.229591	0.900044
rad18	0.0540518	0.954094	0.0540520	0.954096
rad22	0.0419877	0.996081	0.0419878	0.996084
Indene+H	0.00199152	0.998073	0.00199153	0.998075
rad45	0.00178395	0.999857	0.00178396	0.999859
rad36	0.000110901	0.999968	0.000110901	0.999970
rad23	1.95095e-05	0.999987	1.95095e-05	0.999990
rad11	1.03498e-05	0.999998	1.03498e-05	1.00000
Benzyl+C2H2	2.54228e-06	1.00000	0.00000	1.00000
rad24	3.23493e-08	1.00000	3.23493e-08	1.00000
rad6	3.23801e-09	1.00000	3.23802e-09	1.00000
rad30	1.79168e-13	1.00000	1.79168e-13	1.00000
rad15	3.16572e-15	1.00000	3.16572e-15	1.00000
rad13	2.95510e-15	1.00000	2.95511e-15	1.00000
rad7	9.18486e-16	1.00000	9.18488e-16	1.00000
rad25	6.61291e-17	1.00000	6.61293e-17	1.00000
rad38	1.49208e-17	1.00000	1.49209e-17	1.00000
rad33	5.74801e-18	1.00000	5.74803e-18	1.00000
rad35	1.23635e-19	1.00000	1.23636e-19	1.00000
PAH9+H	1.18614e-19	1.00000	1.18615e-19	1.00000
PhCHCCH2+H	3.49044e-20	1.00000	3.49045e-20	1.00000
rad3	1.74839e-20	1.00000	1.74840e-20	1.00000
rad4	8.96929e-21	1.00000	8.96932e-21	1.00000
rad8	2.61629e-21	1.00000	2.61630e-21	1.00000
rad9	4.54251e-22	1.00000	4.54252e-22	1.00000
rad46	4.03555e-22	1.00000	4.03556e-22	1.00000
rad28	5.96383e-23	1.00000	5.96385e-23	1.00000
rad60syn	8.91921e-24	1.00000	8.91924e-24	1.00000
Ph+Allene	3.17278e-24	1.00000	3.17279e-24	1.00000
rad2	1.64867e-24	1.00000	1.64867e-24	1.00000
rad60anti	8.14536e-25	1.00000	8.14538e-25	1.00000
rad1	1.09184e-25	1.00000	1.09184e-25	1.00000
PhCCH+CH3	4.97149e-28	1.00000	4.97151e-28	1.00000
PAH7+H	4.73718e-28	1.00000	4.73719e-28	1.00000
PhCH2CCH+H	3.88308e-28	1.00000	3.88309e-28	1.00000
rad14	9.36930e-29	1.00000	9.36933e-29	1.00000
rad10	4.25545e-29	1.00000	4.25546e-29	1.00000
rad31	7.31149e-30	1.00000	7.31151e-30	1.00000
PAH3+H	8.52868e-31	1.00000	8.52870e-31	1.00000
rad59	4.14861e-31	1.00000	4.14862e-31	1.00000
rad26	7.35847e-32	1.00000	7.35849e-32	1.00000
rad27	2.04354e-32	1.00000	2.04354e-32	1.00000
Ph+MeAc	9.66976e-33	1.00000	9.66978e-33	1.00000
PhCCCH3+H	3.34110e-33	1.00000	3.34111e-33	1.00000
rad50	2.32462e-33	1.00000	2.32462e-33	1.00000
rad39	2.87917e-34	1.00000	2.87918e-34	1.00000
rad12	2.41887e-39	1.00000	2.41887e-39	1.00000
rad52	5.04891e-40	1.00000	5.04892e-40	1.00000
rad37	5.33744e-41	1.00000	5.33745e-41	1.00000
rad5	4.93625e-42	1.00000	4.93626e-42	1.00000
rad51	1.21364e-43	1.00000	1.21364e-43	1.00000
rad19syn	3.75469e-44	1.00000	3.75470e-44	1.00000
rad54	1.68124e-46	1.00000	1.68124e-46	1.00000
rad65	4.04559e-48	1.00000	4.04561e-48	1.00000
rad70	1.01967e-48	1.00000	1.01967e-48	1.00000
rad62	1.24121e-49	1.00000	1.24121e-49	1.00000
rad47	9.24189e-50	1.00000	9.24192e-50	1.00000
rad58	5.40253e-50	1.00000	5.40254e-50	1.00000
rad43	1.12413e-50	1.00000	1.12413e-50	1.00000
PAH10+CH3	7.46380e-51	1.00000	7.46382e-51	1.00000
PhcycC3H3_A+H	1.93198e-52	1.00000	1.93199e-52	1.00000
rad55	1.77114e-52	1.00000	1.77115e-52	1.00000
rad34	8.76874e-54	1.00000	8.76876e-54	1.00000
PAH1+H	1.14637e-55	1.00000	1.14637e-55	1.00000
rad42	4.69044e-59	1.00000	4.69045e-59	1.00000
rad41	6.04152e-61	1.00000	6.04154e-61	1.00000

10000.0000 Pa, 140.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.44756e-33	(1.00)	1.44755e-33	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.649216	0.649216	0.649219	0.649219
rad21	0.237378	0.886594	0.237379	0.886598
rad18	0.0590589	0.945653	0.0590591	0.945657
rad22	0.0495201	0.995173	0.0495203	0.995177

Indene+H	0.00248254	0.997656	0.00248255	0.997660
rad45	0.00216492	0.999820	0.00216493	0.999825
rad36	0.000134608	0.999955	0.000134609	0.999959
rad23	2.66995e-05	0.999982	2.66996e-05	0.999986
rad11	1.37334e-05	0.999996	1.37335e-05	1.000000
Benzyl+C2H2	3.80238e-06	0.999999	0.000000	1.000000
rad24	2.94187e-08	0.999999	2.94188e-08	1.000000
rad6	5.44870e-09	0.999999	5.44872e-09	1.000000
rad30	4.86657e-13	0.999999	4.86659e-13	1.000000
rad15	1.17988e-14	0.999999	1.17988e-14	1.000000
rad13	6.06113e-15	0.999999	6.06115e-15	1.000000
rad7	2.08989e-15	0.999999	2.08990e-15	1.000000
rad25	2.59561e-16	0.999999	2.59562e-16	1.000000
rad38	3.97955e-17	0.999999	3.97956e-17	1.000000
rad33	1.19902e-17	0.999999	1.19902e-17	1.000000
PAH9+H	3.34167e-19	0.999999	3.34168e-19	1.000000
rad35	3.22540e-19	0.999999	3.22541e-19	1.000000
PhCHCCH2+H	2.90389e-19	0.999999	2.90390e-19	1.000000
rad3	5.94366e-20	0.999999	5.94369e-20	1.000000
rad8	4.69257e-20	0.999999	4.69258e-20	1.000000
rad4	3.05167e-20	0.999999	3.05168e-20	1.000000
rad9	5.07596e-21	0.999999	5.07598e-21	1.000000
rad46	2.48136e-21	0.999999	2.48137e-21	1.000000
rad28	3.22396e-22	0.999999	3.22397e-22	1.000000
rad60syn	1.57651e-22	0.999999	1.57652e-22	1.000000
Ph+Allene	6.84325e-23	0.999999	6.84327e-23	1.000000
rad60anti	1.72503e-23	0.999999	1.72503e-23	1.000000
rad2	9.38138e-24	0.999999	9.38141e-24	1.000000
rad1	6.23521e-25	0.999999	6.23523e-25	1.000000
PhCH2CCH+H	1.98489e-26	0.999999	1.98490e-26	1.000000
PAH7+H	1.59888e-26	0.999999	1.59889e-26	1.000000
PhCCH+CH3	6.01153e-27	0.999999	6.01156e-27	1.000000
rad14	8.62142e-28	0.999999	8.62145e-28	1.000000
rad10	3.85294e-28	0.999999	3.85296e-28	1.000000
PAH3+H	9.32149e-29	0.999999	9.32153e-29	1.000000
rad59	4.49919e-29	0.999999	4.49920e-29	1.000000
rad31	2.61442e-29	0.999999	2.61443e-29	1.000000
rad26	9.31638e-30	0.999999	9.31642e-30	1.000000
Ph+MeAc	2.80578e-31	0.999999	2.80579e-31	1.000000
rad27	2.41678e-31	0.999999	2.41679e-31	1.000000
rad50	1.12176e-31	0.999999	1.12176e-31	1.000000
PhCCCH3+H	6.05619e-32	0.999999	6.05621e-32	1.000000
rad39	8.27293e-33	0.999999	8.27296e-33	1.000000
rad12	3.36757e-37	0.999999	3.36758e-37	1.000000
rad52	4.46434e-38	0.999999	4.46436e-38	1.000000
rad37	7.54020e-39	0.999999	7.54023e-39	1.000000
rad5	3.82512e-40	0.999999	3.82513e-40	1.000000
rad51	1.58479e-41	0.999999	1.58480e-41	1.000000
rad19syn	5.26456e-42	0.999999	5.26458e-42	1.000000
rad54	2.55200e-44	0.999999	2.55201e-44	1.000000
rad65	6.68462e-46	0.999999	6.68464e-46	1.000000
rad70	1.81495e-46	0.999999	1.81496e-46	1.000000
rad62	2.58547e-47	0.999999	2.58548e-47	1.000000
rad47	1.90812e-47	0.999999	1.90813e-47	1.000000
rad58	1.01605e-47	0.999999	1.01605e-47	1.000000
rad43	2.32074e-48	0.999999	2.32074e-48	1.000000
PAH10+CH3	1.01969e-48	0.999999	1.01969e-48	1.000000
PhcycC3H3_A+H	3.68411e-50	0.999999	3.68412e-50	1.000000
rad55	3.23965e-50	0.999999	3.23966e-50	1.000000
rad34	1.94636e-51	0.999999	1.94636e-51	1.000000
PAH1+H	2.93660e-53	0.999999	2.93661e-53	1.000000
rad42	1.86045e-56	0.999999	1.86046e-56	1.000000
rad41	2.79642e-58	0.999999	2.79643e-58	1.000000

10000.0000 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27735e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.628143	0.628143	0.628147	0.628147
rad21	0.243765	0.871908	0.243767	0.871914
rad18	0.0642819	0.936190	0.0642823	0.936196
rad22	0.0578975	0.994087	0.0578978	0.994094
Indene+H	0.00308106	0.997168	0.00308107	0.997175
rad45	0.00260865	0.999777	0.00260866	0.999784
rad36	0.000162269	0.999939	0.000162270	0.999946
rad23	3.62413e-05	0.999976	3.62415e-05	0.999982

rad11	1.81415e-05	0.999994	1.81416e-05	1.00000
Benzyl+C2H2	5.64625e-06	0.999999	0.00000	1.00000
rad24	2.69875e-08	0.999999	2.69877e-08	1.00000
rad6	9.16739e-09	0.999999	9.16744e-09	1.00000
rad30	1.22797e-12	0.999999	1.22798e-12	1.00000
rad15	3.91247e-14	0.999999	3.91249e-14	1.00000
rad13	1.23281e-14	0.999999	1.23282e-14	1.00000
rad7	4.78771e-15	0.999999	4.78774e-15	1.00000
rad25	9.23117e-16	0.999999	9.23122e-16	1.00000
rad38	1.02146e-16	0.999999	1.02146e-16	1.00000
rad33	2.45988e-17	0.999999	2.45989e-17	1.00000
PhCHCCH2+H	1.99883e-18	0.999999	1.99884e-18	1.00000
PAH9+H	9.27888e-19	0.999999	9.27893e-19	1.00000
rad35	8.35060e-19	0.999999	8.35065e-19	1.00000
rad8	5.93535e-19	0.999999	5.93538e-19	1.00000
rad3	1.99064e-19	0.999999	1.99065e-19	1.00000
rad4	1.02310e-19	0.999999	1.02310e-19	1.00000
rad9	4.49169e-20	0.999999	4.49171e-20	1.00000
rad46	1.31086e-20	0.999999	1.31087e-20	1.00000
rad60syn	2.02597e-21	0.999999	2.02599e-21	1.00000
rad28	1.75460e-21	0.999999	1.75461e-21	1.00000
Ph+Allene	1.07753e-21	0.999999	1.07754e-21	1.00000
rad60anti	2.59179e-22	0.999999	2.59181e-22	1.00000
rad2	5.16268e-23	0.999999	5.16270e-23	1.00000
rad1	3.44554e-24	0.999999	3.44556e-24	1.00000
PhCH2CCH+H	7.12665e-25	0.999999	7.12669e-25	1.00000
PAH7+H	3.47366e-25	0.999999	3.47368e-25	1.00000
PhCCH+CH3	6.39095e-26	0.999999	6.39099e-26	1.00000
rad14	7.19248e-27	0.999999	7.19252e-27	1.00000
PAH3+H	6.90310e-27	0.999999	6.90314e-27	1.00000
rad10	3.32487e-27	0.999999	3.32489e-27	1.00000
rad59	3.03002e-27	0.999999	3.03004e-27	1.00000
rad26	4.24826e-28	0.999999	4.24829e-28	1.00000
rad31	9.23263e-29	0.999999	9.23269e-29	1.00000
Ph+MeAc	6.34952e-30	0.999999	6.34956e-30	1.00000
rad50	4.09006e-30	0.999999	4.09009e-30	1.00000
rad27	2.61360e-30	0.999999	2.61361e-30	1.00000
PhCCCH3+H	9.67035e-31	0.999999	9.67041e-31	1.00000
rad39	1.73300e-31	0.999999	1.73301e-31	1.00000
rad12	2.25519e-35	0.999999	2.25520e-35	1.00000
rad52	3.64108e-36	0.999999	3.64110e-36	1.00000
rad37	6.35301e-37	0.999999	6.35304e-37	1.00000
rad5	2.44887e-38	0.999999	2.44889e-38	1.00000
rad51	1.91210e-39	0.999999	1.91211e-39	1.00000
rad19syn	9.90753e-40	0.999999	9.90759e-40	1.00000
rad54	5.58396e-42	0.999999	5.58400e-42	1.00000
rad65	1.02652e-43	0.999999	1.02652e-43	1.00000
rad70	4.83294e-44	0.999999	4.83297e-44	1.00000
rad62	6.52688e-45	0.999999	6.52692e-45	1.00000
rad47	3.61964e-45	0.999999	3.61966e-45	1.00000
rad58	2.59463e-45	0.999999	2.59464e-45	1.00000
rad43	5.49641e-46	0.999999	5.49644e-46	1.00000
PAH10+CH3	1.38370e-46	0.999999	1.38370e-46	1.00000
PhcycC3H3_A+H	1.02751e-47	0.999999	1.02752e-47	1.00000
rad55	8.75939e-48	0.999999	8.75944e-48	1.00000
rad34	5.44951e-49	0.999999	5.44954e-49	1.00000
PAH1+H	6.97954e-51	0.999999	6.97958e-51	1.00000
rad42	9.30213e-54	0.999999	9.30218e-54	1.00000
rad41	1.58249e-55	0.999999	1.58250e-55	1.00000

10000.0000 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01165e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.607144	0.607144	0.607149	0.607149
rad21	0.248731	0.855875	0.248733	0.855882
rad18	0.0697343	0.925609	0.0697348	0.925617
rad22	0.0671792	0.992789	0.0671797	0.992796
Indene+H	0.00381198	0.996600	0.00381202	0.996609
rad45	0.00312412	0.999725	0.00312414	0.999733
rad36	0.000194473	0.999919	0.000194475	0.999927
rad23	4.88742e-05	0.999968	4.88746e-05	0.999976
rad11	2.38630e-05	0.999992	2.38632e-05	1.000000
Benzyl+C2H2	8.32301e-06	1.00000	0.00000	1.000000
rad24	2.49420e-08	1.00000	2.49422e-08	1.000000
rad6	1.54070e-08	1.00000	1.54071e-08	1.000000

rad30	2.90935e-12	1.00000	2.90937e-12	1.000000
rad15	1.17272e-13	1.00000	1.17273e-13	1.000000
rad13	2.47678e-14	1.00000	2.47680e-14	1.000000
rad7	1.09969e-14	1.00000	1.09970e-14	1.000000
rad25	3.00728e-15	1.00000	3.00731e-15	1.000000
rad38	2.53047e-16	1.00000	2.53049e-16	1.000000
rad33	4.94563e-17	1.00000	4.94567e-17	1.000000
PhCHCCH2+H	1.16212e-17	1.00000	1.16213e-17	1.000000
rad8	5.58460e-18	1.00000	5.58465e-18	1.000000
PAH9+H	2.53523e-18	1.00000	2.53525e-18	1.000000
rad35	2.13997e-18	1.00000	2.13999e-18	1.000000
rad3	6.51317e-19	1.00000	6.51323e-19	1.000000
rad4	3.35146e-19	1.00000	3.35148e-19	1.000000
rad9	3.23506e-19	1.00000	3.23509e-19	1.000000
rad46	6.04627e-20	1.00000	6.04632e-20	1.000000
rad60syn	1.96800e-20	1.00000	1.96802e-20	1.000000
Ph+Allene	1.28170e-20	1.00000	1.28171e-20	1.000000
rad28	9.67746e-21	1.00000	9.67754e-21	1.000000
rad60anti	2.88197e-21	1.00000	2.88199e-21	1.000000
rad2	2.71656e-22	1.00000	2.71659e-22	1.000000
rad1	1.82157e-23	1.00000	1.82158e-23	1.000000
PhCH2CCH+H	1.62980e-23	1.00000	1.62981e-23	1.000000
PAH7+H	5.24736e-24	1.00000	5.24740e-24	1.000000
PhCCH+CH3	5.98183e-25	1.00000	5.98188e-25	1.000000
PAH3+H	2.02945e-25	1.00000	2.02947e-25	1.000000
rad59	8.41023e-26	1.00000	8.41030e-26	1.000000
rad14	5.42744e-26	1.00000	5.42748e-26	1.000000
rad10	2.69669e-26	1.00000	2.69672e-26	1.000000
rad26	1.00002e-26	1.00000	1.00003e-26	1.000000
rad31	3.19444e-28	1.00000	3.19446e-28	1.000000
Ph+MeAc	1.12242e-28	1.00000	1.12243e-28	1.000000
rad50	9.89824e-29	1.00000	9.89832e-29	1.000000
rad27	2.54643e-29	1.00000	2.54645e-29	1.000000
PhCCCH3+H	1.35000e-29	1.00000	1.35001e-29	1.000000
rad39	2.72244e-30	1.00000	2.72246e-30	1.000000
rad12	7.17351e-34	1.00000	7.17357e-34	1.000000
rad52	2.25573e-34	1.00000	2.25575e-34	1.000000
rad37	2.41356e-35	1.00000	2.41358e-35	1.000000
rad5	1.05227e-36	1.00000	1.05228e-36	1.000000
rad51	1.75248e-37	1.00000	1.75250e-37	1.000000
rad19syn	1.38230e-37	1.00000	1.38231e-37	1.000000
rad54	9.60535e-40	1.00000	9.60543e-40	1.000000
rad65	1.20292e-41	1.00000	1.20293e-41	1.000000
rad70	1.05174e-41	1.00000	1.05175e-41	1.000000
rad62	1.18123e-42	1.00000	1.18124e-42	1.000000
rad58	6.08946e-43	1.00000	6.08951e-43	1.000000
rad47	5.16881e-43	1.00000	5.16885e-43	1.000000
rad43	9.11394e-44	1.00000	9.11401e-44	1.000000
PAH10+CH3	1.63033e-44	1.00000	1.63034e-44	1.000000
PhcycC3H3_A+H	2.29921e-45	1.00000	2.29923e-45	1.000000
rad55	1.91567e-45	1.00000	1.91569e-45	1.000000
rad34	1.23796e-46	1.00000	1.23797e-46	1.000000
PAH1+H	1.26145e-48	1.00000	1.26146e-48	1.000000
rad42	3.38440e-51	1.00000	3.38443e-51	1.000000
rad41	6.38769e-53	1.00000	6.38774e-53	1.000000

10000.0000 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54814e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.586141	0.586141	0.586149	0.586149
rad21	0.252253	0.838394	0.252256	0.838405
rad22	0.0774173	0.915811	0.0774182	0.915823
rad18	0.0754211	0.991232	0.0754220	0.991245
Indene+H	0.00470553	0.995938	0.00470559	0.995951
rad45	0.00372084	0.999659	0.00372089	0.999672
rad36	0.000231854	0.999891	0.000231857	0.999904
rad23	6.55544e-05	0.999956	6.55552e-05	0.999969
rad11	3.12526e-05	0.999987	3.12530e-05	1.00000
Benzyl+C2H2	1.21753e-05	1.000000	0.00000	1.00000
rad6	2.58254e-08	1.000000	2.58257e-08	1.00000
rad24	2.31985e-08	1.000000	2.31988e-08	1.00000
rad30	6.53013e-12	1.000000	6.53021e-12	1.00000
rad15	3.22326e-13	1.000000	3.22330e-13	1.00000
rad13	4.89660e-14	1.000000	4.89666e-14	1.00000
rad7	2.52130e-14	1.000000	2.52133e-14	1.00000

rad25	9.06706e-15	1.000000	9.06717e-15	1.00000
rad38	6.06535e-16	1.000000	6.06543e-16	1.00000
rad33	9.71751e-17	1.000000	9.71763e-17	1.00000
PhCHCCH2+H	5.83242e-17	1.000000	5.83249e-17	1.00000
rad8	4.09685e-17	1.000000	4.09690e-17	1.00000
PAH9+H	6.80520e-18	1.000000	6.80528e-18	1.00000
rad35	5.41498e-18	1.000000	5.41504e-18	1.00000
rad3	2.06925e-18	1.000000	2.06928e-18	1.00000
rad9	1.95248e-18	1.000000	1.95250e-18	1.00000
rad4	1.06623e-18	1.000000	1.06624e-18	1.00000
rad46	2.47796e-19	1.000000	2.47799e-19	1.00000
rad60syn	1.50358e-19	1.000000	1.50360e-19	1.00000
Ph+Allene	1.19682e-19	1.000000	1.19684e-19	1.00000
rad28	5.24494e-20	1.000000	5.24500e-20	1.00000
rad60anti	2.47613e-20	1.000000	2.47616e-20	1.00000
rad2	1.35793e-21	1.000000	1.35795e-21	1.00000
PhCH2CCH+H	2.65068e-22	1.000000	2.65072e-22	1.00000
rad1	9.15373e-23	1.000000	9.15384e-23	1.00000
PAH7+H	5.87626e-23	1.000000	5.87634e-23	1.00000
PhCCH+CH3	4.96441e-24	1.000000	4.96447e-24	1.00000
PAH3+H	3.81669e-24	1.000000	3.81673e-24	1.00000
rad59	1.52348e-24	1.000000	1.52350e-24	1.00000
rad14	3.71180e-25	1.000000	3.71184e-25	1.00000
rad10	2.04132e-25	1.000000	2.04135e-25	1.00000
rad26	1.60447e-25	1.000000	1.60449e-25	1.00000
rad50	1.73307e-27	1.000000	1.73309e-27	1.00000
Ph+MeAc	1.59668e-27	1.000000	1.59670e-27	1.00000
rad31	1.07688e-27	1.000000	1.07689e-27	1.00000
rad27	2.22128e-28	1.000000	2.22131e-28	1.00000
PhCCCH3+H	1.65461e-28	1.000000	1.65463e-28	1.00000
rad39	3.36271e-29	1.000000	3.36275e-29	1.00000
rad12	1.49908e-32	1.000000	1.49910e-32	1.00000
rad52	1.04410e-32	1.000000	1.04411e-32	1.00000
rad37	5.83377e-34	1.000000	5.83384e-34	1.00000
rad5	3.25560e-35	1.000000	3.25564e-35	1.00000
rad19syn	1.33042e-35	1.000000	1.33043e-35	1.00000
rad51	1.18424e-35	1.000000	1.18425e-35	1.00000
rad54	1.23874e-37	1.000000	1.23876e-37	1.00000
rad70	1.79874e-39	1.000000	1.79876e-39	1.00000
rad65	1.04332e-39	1.000000	1.04334e-39	1.00000
rad62	1.49394e-40	1.000000	1.49396e-40	1.00000
rad58	1.25683e-40	1.000000	1.25685e-40	1.00000
rad47	5.37445e-41	1.000000	5.37452e-41	1.00000
rad43	1.03632e-41	1.000000	1.03633e-41	1.00000
PAH10+CH3	1.80885e-42	1.000000	1.80887e-42	1.00000
PhcycC3H3_A+H	3.97632e-43	1.000000	3.97636e-43	1.00000
rad55	3.26184e-43	1.000000	3.26188e-43	1.00000
rad34	2.22935e-44	1.000000	2.22938e-44	1.00000
PAH1+H	1.67912e-46	1.000000	1.67914e-46	1.00000
rad42	8.65354e-49	1.000000	8.65365e-49	1.00000
rad41	1.78268e-50	1.000000	1.78270e-50	1.00000

10000.0000 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69315e-29 (1.00)	4.69307e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.565067	0.565067	0.565077	0.565077
rad21	0.254315	0.819382	0.254320	0.819397
rad22	0.0886531	0.908035	0.0886547	0.908052
rad18	0.0813376	0.989373	0.0813390	0.989391
Indene+H	0.00579782	0.995171	0.00579792	0.995189
rad45	0.00440860	0.999579	0.00440868	0.999597
rad36	0.000275078	0.999854	0.000275082	0.999872
rad23	8.75074e-05	0.999942	8.75089e-05	0.999960
rad11	4.07377e-05	0.999982	4.07384e-05	1.00000
Benzyl+C2H2	1.76679e-05	1.00000	0.00000	1.00000
rad6	4.31004e-08	1.00000	4.31011e-08	1.00000
rad24	2.16949e-08	1.00000	2.16953e-08	1.00000
rad30	1.39840e-11	1.00000	1.39842e-11	1.00000
rad15	8.22207e-13	1.00000	8.22222e-13	1.00000
rad13	9.49630e-14	1.00000	9.49647e-14	1.00000
rad7	5.74598e-14	1.00000	5.74608e-14	1.00000
rad25	2.55245e-14	1.00000	2.55249e-14	1.00000
rad38	1.40962e-15	1.00000	1.40965e-15	1.00000
PhCHCCH2+H	2.57673e-16	1.00000	2.57678e-16	1.00000
rad8	2.43633e-16	1.00000	2.43637e-16	1.00000

rad33	1.86270e-16	1.00000	1.86274e-16	1.00000
PAH9+H	1.79226e-17	1.00000	1.79229e-17	1.00000
rad35	1.35023e-17	1.00000	1.35025e-17	1.00000
rad9	1.01370e-17	1.00000	1.01371e-17	1.00000
rad3	6.35828e-18	1.00000	6.35839e-18	1.00000
rad4	3.28136e-18	1.00000	3.28142e-18	1.00000
rad60syn	9.35678e-19	1.00000	9.35695e-19	1.00000
rad46	9.17044e-19	1.00000	9.17060e-19	1.00000
Ph+Allene	9.07779e-19	1.00000	9.07795e-19	1.00000
rad28	2.67388e-19	1.00000	2.67393e-19	1.00000
rad60anti	1.70697e-19	1.00000	1.70700e-19	1.00000
rad2	6.42809e-21	1.00000	6.42820e-21	1.00000
PhCH2CCH+H	3.27240e-21	1.00000	3.27245e-21	1.00000
PAH7+H	5.11621e-22	1.00000	5.11630e-22	1.00000
rad1	4.35874e-22	1.00000	4.35882e-22	1.00000
PAH3+H	5.19639e-23	1.00000	5.19648e-23	1.00000
PhCCH+CH3	3.68417e-23	1.00000	3.68424e-23	1.00000
rad59	2.00917e-23	1.00000	2.00921e-23	1.00000
rad14	2.30892e-24	1.00000	2.30896e-24	1.00000
rad26	1.90410e-24	1.00000	1.90413e-24	1.00000
rad10	1.43795e-24	1.00000	1.43798e-24	1.00000
rad50	2.31478e-26	1.00000	2.31482e-26	1.00000
Ph+MeAc	1.87638e-26	1.00000	1.87641e-26	1.00000
rad31	3.52501e-27	1.00000	3.52507e-27	1.00000
PhCCCH3+H	1.79160e-27	1.00000	1.79163e-27	1.00000
rad27	1.73228e-27	1.00000	1.73231e-27	1.00000
rad39	3.38568e-28	1.00000	3.38574e-28	1.00000
rad52	3.19012e-31	1.00000	3.19018e-31	1.00000
rad12	2.29096e-31	1.00000	2.29100e-31	1.00000
rad37	1.01211e-32	1.00000	1.01213e-32	1.00000
rad19syn	7.86109e-34	1.00000	7.86123e-34	1.00000
rad5	7.61520e-34	1.00000	7.61533e-34	1.00000
rad51	5.91320e-34	1.00000	5.91330e-34	1.00000
rad54	1.30803e-35	1.00000	1.30805e-35	1.00000
rad70	2.88517e-37	1.00000	2.88522e-37	1.00000
rad65	6.71765e-38	1.00000	6.71777e-38	1.00000
rad58	2.87775e-38	1.00000	2.87780e-38	1.00000
rad62	1.40042e-38	1.00000	1.40044e-38	1.00000
rad47	4.06285e-39	1.00000	4.06292e-39	1.00000
rad43	8.38987e-40	1.00000	8.39002e-40	1.00000
PAH10+CH3	2.42729e-40	1.00000	2.42733e-40	1.00000
PhcycC3H3_A+H	6.20696e-41	1.00000	6.20707e-41	1.00000
rad55	5.09018e-41	1.00000	5.09027e-41	1.00000
rad34	3.78506e-42	1.00000	3.78512e-42	1.00000
PAH1+H	1.65006e-44	1.00000	1.65009e-44	1.00000
rad42	1.67312e-46	1.00000	1.67315e-46	1.00000
rad41	3.66939e-48	1.00000	3.66946e-48	1.00000

10000.0000 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.16530e-28 (1.00)	3.16522e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.543861	0.543861	0.543874	0.543874
rad21	0.254912	0.798773	0.254918	0.798792
rad22	0.100913	0.899686	0.100916	0.899708
rad18	0.0874667	0.987153	0.0874690	0.987177
Indene+H	0.00713142	0.994284	0.00713160	0.994309
rad45	0.00519710	0.999481	0.00519723	0.999506
rad36	0.000324824	0.999806	0.000324833	0.999831
rad23	0.000116288	0.999922	0.000116291	0.999947
rad11	5.28251e-05	0.999975	5.28264e-05	1.000000
Benzyl+C2H2	2.54215e-05	1.00000	0.00000	1.000000
rad6	7.14924e-08	1.00000	7.14942e-08	1.000000
rad24	2.03841e-08	1.00000	2.03846e-08	1.000000
rad30	2.87261e-11	1.00000	2.87268e-11	1.000000
rad15	1.96566e-12	1.00000	1.96571e-12	1.000000
rad13	1.80242e-13	1.00000	1.80246e-13	1.000000
rad7	1.29686e-13	1.00000	1.29689e-13	1.000000
rad25	6.75714e-14	1.00000	6.75731e-14	1.000000
rad38	3.18229e-15	1.00000	3.18238e-15	1.000000
rad8	1.21249e-15	1.00000	1.21253e-15	1.000000
PhCHCCH2+H	1.01903e-15	1.00000	1.01905e-15	1.000000
rad33	3.48019e-16	1.00000	3.48028e-16	1.000000
rad9	4.62863e-17	1.00000	4.62875e-17	1.000000
PAH9+H	4.62681e-17	1.00000	4.62692e-17	1.000000
rad35	3.31271e-17	1.00000	3.31279e-17	1.000000

rad3	1.88539e-17	1.00000	1.88544e-17	1.000000
rad4	9.74716e-18	1.00000	9.74741e-18	1.000000
Ph+Allene	5.75837e-18	1.00000	5.75852e-18	1.000000
rad60syn	4.88474e-18	1.00000	4.88486e-18	1.000000
rad46	3.10779e-18	1.00000	3.10787e-18	1.000000
rad28	1.24455e-18	1.00000	1.24458e-18	1.000000
rad60anti	9.74637e-19	1.00000	9.74662e-19	1.000000
PhCH2CCH+H	3.20481e-20	1.00000	3.20489e-20	1.000000
rad2	2.87892e-20	1.00000	2.87899e-20	1.000000
PAH7+H	3.59914e-21	1.00000	3.59924e-21	1.000000
rad1	1.96491e-21	1.00000	1.96496e-21	1.000000
PAH3+H	5.44300e-22	1.00000	5.44314e-22	1.000000
PhCCH+CH3	2.46678e-22	1.00000	2.46684e-22	1.000000
rad59	2.04171e-22	1.00000	2.04176e-22	1.000000
rad26	1.75777e-23	1.00000	1.75781e-23	1.000000
rad14	1.31184e-23	1.00000	1.31187e-23	1.000000
rad10	9.42593e-24	1.00000	9.42617e-24	1.000000
rad50	2.45934e-25	1.00000	2.45940e-25	1.000000
Ph+MeAc	1.87170e-25	1.00000	1.87174e-25	1.000000
PhCCCH3+H	1.73335e-26	1.00000	1.73340e-26	1.000000
rad27	1.21007e-26	1.00000	1.21010e-26	1.000000
rad31	1.11849e-26	1.00000	1.11852e-26	1.000000
rad39	2.86767e-27	1.00000	2.86774e-27	1.000000
rad52	6.74542e-30	1.00000	6.74560e-30	1.000000
rad12	2.75532e-30	1.00000	2.75539e-30	1.000000
rad37	1.38288e-31	1.00000	1.38291e-31	1.000000
rad19syn	2.97527e-32	1.00000	2.97534e-32	1.000000
rad51	2.49235e-32	1.00000	2.49241e-32	1.000000
rad5	1.46264e-32	1.00000	1.46268e-32	1.000000
rad54	1.07895e-33	1.00000	1.07897e-33	1.000000
rad70	6.22307e-35	1.00000	6.22323e-35	1.000000
rad58	1.10756e-35	1.00000	1.10759e-35	1.000000
rad65	3.65489e-36	1.00000	3.65498e-36	1.000000
rad62	1.17839e-36	1.00000	1.17842e-36	1.000000
rad47	2.50342e-37	1.00000	2.50349e-37	1.000000
rad43	5.66034e-38	1.00000	5.66048e-38	1.000000
PAH10+CH3	3.88500e-38	1.00000	3.88510e-38	1.000000
PhcycC3H3_A+H	1.21476e-38	1.00000	1.21479e-38	1.000000
rad55	1.02400e-38	1.00000	1.02403e-38	1.000000
rad34	9.19273e-40	1.00000	9.19296e-40	1.000000
PAH1+H	1.37165e-42	1.00000	1.37169e-42	1.000000
rad42	3.14329e-44	1.00000	3.14337e-44	1.000000
rad41	7.02265e-46	1.00000	7.02283e-46	1.000000

10000.0000 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76109e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.522476	0.522476	0.522495	0.522495
rad21	0.254050	0.776526	0.254059	0.776554
rad22	0.114205	0.890731	0.114209	0.890763
rad18	0.0937776	0.984509	0.0937810	0.984544
Indene+H	0.00875560	0.993264	0.00875592	0.993300
rad45	0.00609561	0.999360	0.00609583	0.999396
rad36	0.000381771	0.999742	0.000381784	0.999778
rad23	0.000153852	0.999895	0.000153858	0.999931
rad11	6.81045e-05	0.999964	6.81070e-05	0.999999
Benzyl+C2H2	3.62533e-05	1.000000	0.000000	0.999999
rad6	1.17676e-07	1.000000	1.17680e-07	1.000000
rad24	1.92301e-08	1.000000	1.92308e-08	1.000000
rad30	5.68402e-11	1.000000	5.68423e-11	1.000000
rad15	4.43908e-12	1.000000	4.43924e-12	1.000000
rad13	3.34295e-13	1.000000	3.34307e-13	1.000000
rad7	2.88981e-13	1.000000	2.88991e-13	1.000000
rad25	1.69192e-13	1.000000	1.69199e-13	1.000000
rad38	6.99017e-15	1.000000	6.99042e-15	1.000000
rad8	5.18296e-15	1.000000	5.18315e-15	1.000000
PhCHCCH2+H	3.65835e-15	1.000000	3.65848e-15	1.000000
rad33	6.33664e-16	1.000000	6.33687e-16	1.000000
rad9	1.89241e-16	1.000000	1.89247e-16	1.000000
PAH9+H	1.17014e-16	1.000000	1.17018e-16	1.000000
rad35	7.98907e-17	1.000000	7.98936e-17	1.000000
rad3	5.38983e-17	1.000000	5.39003e-17	1.000000
Ph+Allene	3.12997e-17	1.000000	3.13008e-17	1.000000
rad4	2.79193e-17	1.000000	2.79203e-17	1.000000
rad60syn	2.19240e-17	1.000000	2.19248e-17	1.000000

rad46	9.75913e-18	1.000000	9.75948e-18	1.000000
rad28	5.22803e-18	1.000000	5.22822e-18	1.000000
rad60anti	4.73255e-18	1.000000	4.73272e-18	1.000000
PhCH2CCH+H	2.56114e-19	1.000000	2.56123e-19	1.000000
rad2	1.22035e-19	1.000000	1.22039e-19	1.000000
PAH7+H	2.11065e-20	1.000000	2.11073e-20	1.000000
rad1	8.38924e-21	1.000000	8.38955e-21	1.000000
PAH3+H	4.54906e-21	1.000000	4.54923e-21	1.000000
rad59	1.65832e-21	1.000000	1.65838e-21	1.000000
PhCCH+CH3	1.50147e-21	1.000000	1.50153e-21	1.000000
rad26	1.30910e-22	1.000000	1.30914e-22	1.000000
rad14	6.83457e-23	1.000000	6.83481e-23	1.000000
rad10	5.75347e-23	1.000000	5.75368e-23	1.000000
rad50	2.14123e-24	1.000000	2.14130e-24	1.000000
Ph+MeAc	1.61005e-24	1.000000	1.61011e-24	1.000000
PhCCCH3+H	1.50473e-25	1.000000	1.50479e-25	1.000000
rad27	7.59568e-26	1.000000	7.59595e-26	1.000000
rad31	3.43865e-26	1.000000	3.43877e-26	1.000000
rad39	2.08823e-26	1.000000	2.08830e-26	1.000000
rad52	1.02508e-28	1.000000	1.02512e-28	1.000000
rad12	2.67944e-29	1.000000	2.67954e-29	1.000000
rad37	1.51215e-30	1.000000	1.51220e-30	1.000000
rad51	6.98547e-31	1.000000	6.98572e-31	1.000000
rad19syn	6.75590e-31	1.000000	6.75615e-31	1.000000
rad5	2.27051e-31	1.000000	2.27059e-31	1.000000
rad54	3.57780e-32	1.000000	3.57793e-32	1.000000
rad70	1.16333e-32	1.000000	1.16337e-32	1.000000
rad58	4.51024e-33	1.000000	4.51041e-33	1.000000
rad65	1.54966e-34	1.000000	1.54972e-34	1.000000
rad62	6.01698e-35	1.000000	6.01720e-35	1.000000
rad47	1.11836e-35	1.000000	1.11840e-35	1.000000
rad43	2.43711e-36	1.000000	2.43720e-36	1.000000
PAH10+CH3	1.95466e-36	1.000000	1.95473e-36	1.000000
PhycC3H3_A+H	1.90403e-36	1.000000	1.90410e-36	1.000000
rad55	1.70114e-36	1.000000	1.70121e-36	1.000000
rad34	2.26551e-37	1.000000	2.26559e-37	1.000000
PAH1+H	9.34952e-41	1.000000	9.34986e-41	1.000000
rad42	4.30538e-42	1.000000	4.30554e-42	1.000000
rad41	9.37303e-44	1.000000	9.37337e-44	1.000000

10000.0000 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.30956e-27 (1.00)	8.30913e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.500879	0.500879	0.500905	0.500905
rad21	0.251755	0.752634	0.251768	0.752673
rad22	0.128515	0.881149	0.128522	0.881195
rad18	0.100224	0.981373	0.100229	0.981424
Indene+H	0.0107263	0.992099	0.0107269	0.992151
rad45	0.00711250	0.999212	0.00711286	0.999264
rad36	0.000446564	0.999658	0.000446587	0.999710
rad23	0.000202631	0.999861	0.000202642	0.999913
rad11	8.72497e-05	0.999948	8.72542e-05	1.000000
Benzyl+C2H2	5.12212e-05	0.999999	0.000000	1.000000
rad6	1.91936e-07	1.000000	1.91946e-07	1.000000
rad24	1.82052e-08	1.000000	1.82062e-08	1.000000
rad30	1.08678e-10	1.000000	1.08683e-10	1.000000
rad15	9.52971e-12	1.000000	9.53020e-12	1.000000
rad7	6.34175e-13	1.000000	6.34208e-13	1.000000
rad13	6.05372e-13	1.000000	6.05403e-13	1.000000
rad25	4.02525e-13	1.000000	4.02546e-13	1.000000
rad8	1.94399e-14	1.000000	1.94408e-14	1.000000
rad38	1.49630e-14	1.000000	1.49637e-14	1.000000
PhCHCCH2+H	1.20623e-14	1.000000	1.20630e-14	1.000000
rad33	1.12479e-15	1.000000	1.12485e-15	1.000000
rad9	7.02709e-16	1.000000	7.02745e-16	1.000000
PAH9+H	2.89854e-16	1.000000	2.89869e-16	1.000000
rad35	1.89288e-16	1.000000	1.89298e-16	1.000000
Ph+Allene	1.48770e-16	1.000000	1.48778e-16	1.000000
rad3	1.48532e-16	1.000000	1.48540e-16	1.000000
rad60syn	8.63357e-17	1.000000	8.63401e-17	1.000000
rad4	7.71077e-17	1.000000	7.71117e-17	1.000000
rad46	2.86799e-17	1.000000	2.86813e-17	1.000000
rad60anti	1.99755e-17	1.000000	1.99766e-17	1.000000
rad28	1.98284e-17	1.000000	1.98294e-17	1.000000
PhCH2CCH+H	1.71457e-18	1.000000	1.71466e-18	1.000000

rad2	4.90161e-19	1.000000	4.90187e-19	1.000000
PAH7+H	1.05880e-19	1.000000	1.05885e-19	1.000000
rad1	3.39636e-20	1.000000	3.39653e-20	1.000000
PAH3+H	3.13288e-20	1.000000	3.13304e-20	1.000000
rad59	1.11130e-20	1.000000	1.11136e-20	1.000000
PhCCH+CH3	8.36653e-21	1.000000	8.36696e-21	1.000000
rad26	8.11016e-22	1.000000	8.11057e-22	1.000000
rad14	3.27744e-22	1.000000	3.27761e-22	1.000000
rad10	3.27495e-22	1.000000	3.27512e-22	1.000000
rad50	1.57088e-23	1.000000	1.57096e-23	1.000000
Ph+MeAc	1.21383e-23	1.000000	1.21390e-23	1.000000
PhCCCH3+H	1.17926e-24	1.000000	1.17932e-24	1.000000
rad27	4.30415e-25	1.000000	4.30437e-25	1.000000
rad39	1.33357e-25	1.000000	1.33364e-25	1.000000
rad31	1.02471e-25	1.000000	1.02476e-25	1.000000
rad52	1.21635e-27	1.000000	1.21642e-27	1.000000
rad12	2.17761e-28	1.000000	2.17772e-28	1.000000
rad37	1.37127e-29	1.000000	1.37134e-29	1.000000
rad51	1.28792e-29	1.000000	1.28799e-29	1.000000
rad19syn	1.07315e-29	1.000000	1.07321e-29	1.000000
rad5	2.91684e-30	1.000000	2.91699e-30	1.000000
rad58	1.47025e-30	1.000000	1.47033e-30	1.000000
rad70	1.01834e-30	1.000000	1.01840e-30	1.000000
rad54	6.85821e-31	1.000000	6.85856e-31	1.000000
rad65	4.49420e-33	1.000000	4.49443e-33	1.000000
rad62	1.79532e-33	1.000000	1.79541e-33	1.000000
rad47	3.58695e-34	1.000000	3.58713e-34	1.000000
PhcycC3H3_A+H	1.75276e-34	1.000000	1.75285e-34	1.000000
rad55	1.50025e-34	1.000000	1.50033e-34	1.000000
rad43	6.89767e-35	1.000000	6.89802e-35	1.000000
rad34	5.27230e-35	1.000000	5.27257e-35	1.000000
PAH10+CH3	4.98667e-35	1.000000	4.98692e-35	1.000000
PAH1+H	7.25085e-39	1.000000	7.25122e-39	1.000000
rad42	4.21306e-40	1.000000	4.21327e-40	1.000000
rad41	8.41740e-42	1.000000	8.41783e-42	1.000000

10000.0000 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.40057e-26 (1.00)	3.40033e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.479051	0.479051	0.479086	0.479086
rad21	0.248071	0.727122	0.248089	0.727175
rad22	0.143806	0.870928	0.143816	0.870991
rad18	0.106743	0.977671	0.106751	0.977742
Indene+H	0.0131057	0.990777	0.0131067	0.990849
rad45	0.00825476	0.999031	0.00825536	0.999104
rad36	0.000519798	0.999551	0.000519835	0.999624
rad23	0.000265623	0.999817	0.000265642	0.999890
rad11	0.000111015	0.999928	0.000111023	1.000000
Benzyl+C2H2	7.16746e-05	1.000000	0.000000	1.000000
rad6	3.09862e-07	1.000000	3.09885e-07	1.000000
rad24	1.72879e-08	1.000000	1.72891e-08	1.000000
rad30	2.01281e-10	1.000000	2.01295e-10	1.000000
rad15	1.95469e-11	1.000000	1.95483e-11	1.000000
rad7	1.36790e-12	1.000000	1.36800e-12	1.000000
rad13	1.07010e-12	1.000000	1.07018e-12	1.000000
rad25	9.13229e-13	1.000000	9.13294e-13	1.000000
rad8	6.51128e-14	1.000000	6.51174e-14	1.000000
PhCHCCH2+H	3.68839e-14	1.000000	3.68865e-14	1.000000
rad38	3.12597e-14	1.000000	3.12619e-14	1.000000
rad9	2.39655e-15	1.000000	2.39672e-15	1.000000
rad33	1.94784e-15	1.000000	1.94798e-15	1.000000
PAH9+H	7.03343e-16	1.000000	7.03393e-16	1.000000
Ph+Allene	6.28882e-16	1.000000	6.28927e-16	1.000000
rad35	4.40582e-16	1.000000	4.40614e-16	1.000000
rad3	3.94769e-16	1.000000	3.94798e-16	1.000000
rad60syn	3.03382e-16	1.000000	3.03404e-16	1.000000
rad4	2.05432e-16	1.000000	2.05447e-16	1.000000
rad46	7.95386e-17	1.000000	7.95443e-17	1.000000
rad60anti	7.46394e-17	1.000000	7.46447e-17	1.000000
rad28	6.83185e-17	1.000000	6.83234e-17	1.000000
PhCH2CCH+H	9.82810e-18	1.000000	9.82880e-18	1.000000
rad2	1.86838e-18	1.000000	1.86852e-18	1.000000
PAH7+H	4.64169e-19	1.000000	4.64202e-19	1.000000
PAH3+H	1.82471e-19	1.000000	1.82484e-19	1.000000
rad1	1.30587e-19	1.000000	1.30597e-19	1.000000

rad59	6.30505e-20	1.000000	6.30550e-20	1.00000
PhCCH+CH3	4.29498e-20	1.000000	4.29529e-20	1.00000
rad26	4.28573e-21	1.000000	4.28604e-21	1.00000
rad10	1.74179e-21	1.000000	1.74192e-21	1.00000
rad14	1.45170e-21	1.000000	1.45180e-21	1.00000
rad50	9.94314e-23	1.000000	9.94386e-23	1.00000
Ph+MeAc	8.13665e-23	1.000000	8.13724e-23	1.00000
PhCCCH3+H	8.40031e-24	1.000000	8.40091e-24	1.00000
rad27	2.21363e-24	1.000000	2.21379e-24	1.00000
rad39	7.59806e-25	1.000000	7.59860e-25	1.00000
rad31	2.96278e-25	1.000000	2.96300e-25	1.00000
rad52	1.18531e-26	1.000000	1.18539e-26	1.00000
rad12	1.51945e-27	1.000000	1.51956e-27	1.00000
rad51	1.78651e-28	1.000000	1.78664e-28	1.00000
rad19syn	1.31958e-28	1.000000	1.31968e-28	1.00000
rad37	1.06252e-28	1.000000	1.06260e-28	1.00000
rad58	4.23721e-29	1.000000	4.23752e-29	1.00000
rad5	3.18246e-29	1.000000	3.18269e-29	1.00000
rad70	2.36226e-29	1.000000	2.36243e-29	1.00000
rad54	9.41284e-30	1.000000	9.41351e-30	1.00000
rad65	8.52769e-32	1.000000	8.52830e-32	1.00000
rad62	3.42477e-32	1.000000	3.42501e-32	1.00000
rad47	7.90155e-33	1.000000	7.90212e-33	1.00000
PhcycC3H3_A+H	5.50704e-33	1.000000	5.50744e-33	1.00000
rad34	4.35196e-33	1.000000	4.35227e-33	1.00000
rad55	4.07543e-33	1.000000	4.07572e-33	1.00000
rad43	1.35039e-33	1.000000	1.35048e-33	1.00000
PAH10+CH3	8.18108e-34	1.000000	8.18166e-34	1.00000
PAH1+H	4.62953e-37	1.000000	4.62986e-37	1.00000
rad42	2.07640e-38	1.000000	2.07655e-38	1.00000
rad41	3.93444e-40	1.000000	3.93472e-40	1.00000

10000.0000 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22959e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.456992	0.456992	0.457038	0.457038
rad21	0.243063	0.700055	0.243087	0.700125
rad22	0.160011	0.860066	0.160027	0.860152
rad18	0.113256	0.973322	0.113268	0.973420
Indene+H	0.0159612	0.989283	0.0159628	0.989383
rad45	0.00952754	0.998811	0.00952849	0.998911
rad36	0.000601985	0.999413	0.000602045	0.999513
rad23	0.000346487	0.999759	0.000346522	0.999860
rad11	0.000140229	0.999899	0.000140243	1.00000
Benzyl+C2H2	9.93062e-05	0.999999	0.00000	1.00000
rad6	4.94687e-07	0.999999	4.94737e-07	1.00000
rad24	1.64611e-08	0.999999	1.64628e-08	1.00000
rad30	3.61824e-10	0.999999	3.61860e-10	1.00000
rad15	3.84676e-11	0.999999	3.84715e-11	1.00000
rad7	2.89557e-12	0.999999	2.89586e-12	1.00000
rad25	1.98161e-12	0.999999	1.98181e-12	1.00000
rad13	1.84684e-12	0.999999	1.84702e-12	1.00000
rad8	1.97624e-13	0.999999	1.97643e-13	1.00000
PhCHCCH2+H	1.05442e-13	0.999999	1.05453e-13	1.00000
rad38	6.38318e-14	0.999999	6.38381e-14	1.00000
rad9	7.57304e-15	0.999999	7.57379e-15	1.00000
rad33	3.29402e-15	0.999999	3.29434e-15	1.00000
Ph+Allene	2.39785e-15	0.999999	2.39809e-15	1.00000
PAH9+H	1.67260e-15	0.999999	1.67276e-15	1.00000
rad3	1.01273e-15	0.999999	1.01283e-15	1.00000
rad35	1.00768e-15	0.999999	1.00778e-15	1.00000
rad60syn	9.64810e-16	0.999999	9.64906e-16	1.00000
rad4	5.28410e-16	0.999999	5.28462e-16	1.00000
rad60anti	2.50677e-16	0.999999	2.50702e-16	1.00000
rad28	2.15622e-16	0.999999	2.15643e-16	1.00000
rad46	2.09651e-16	0.999999	2.09672e-16	1.00000
PhCH2CCH+H	4.91272e-17	0.999999	4.91320e-17	1.00000
rad2	6.77001e-18	0.999999	6.77068e-18	1.00000
PAH7+H	1.81027e-18	0.999999	1.81045e-18	1.00000
PAH3+H	9.18171e-19	0.999999	9.18263e-19	1.00000
rad1	4.77671e-19	0.999999	4.77719e-19	1.00000
rad59	3.09361e-19	0.999999	3.09392e-19	1.00000
PhCCH+CH3	2.04240e-19	0.999999	2.04260e-19	1.00000
rad26	1.97221e-20	0.999999	1.97241e-20	1.00000
rad10	8.67286e-21	0.999999	8.67372e-21	1.00000

rad14	5.95862e-21	0.999999	5.95921e-21	1.00000
rad50	5.53965e-22	0.999999	5.54020e-22	1.00000
Ph+MeAc	4.90726e-22	0.999999	4.90775e-22	1.00000
PhCCCH3+H	5.47568e-23	0.999999	5.47623e-23	1.00000
rad27	1.03907e-23	0.999999	1.03917e-23	1.00000
rad39	3.91892e-24	0.999999	3.91931e-24	1.00000
rad31	8.32251e-25	0.999999	8.32333e-25	1.00000
rad52	9.77536e-26	0.999999	9.77633e-26	1.00000
rad12	9.29288e-27	0.999999	9.29380e-27	1.00000
rad51	2.03123e-27	0.999999	2.03143e-27	1.00000
rad19syn	1.35900e-27	0.999999	1.35913e-27	1.00000
rad58	7.90137e-28	0.999999	7.90215e-28	1.00000
rad37	7.19700e-28	0.999999	7.19772e-28	1.00000
rad70	3.99502e-28	0.999999	3.99542e-28	1.00000
rad5	3.04817e-28	0.999999	3.04847e-28	1.00000
rad54	1.06546e-28	0.999999	1.06556e-28	1.00000
rad65	1.31005e-30	0.999999	1.31018e-30	1.00000
rad62	5.47808e-31	0.999999	5.47863e-31	1.00000
rad34	4.47352e-31	0.999999	4.47396e-31	1.00000
PhcycC3H3_A+H	1.47148e-31	0.999999	1.47163e-31	1.00000
rad47	1.22280e-31	0.999999	1.22293e-31	1.00000
rad55	8.84891e-32	0.999999	8.84979e-32	1.00000
rad43	2.27870e-32	0.999999	2.27893e-32	1.00000
PAH10+CH3	1.15414e-32	0.999999	1.15425e-32	1.00000
PAH1+H	3.19809e-35	0.999999	3.19841e-35	1.00000
rad42	1.30830e-36	0.999999	1.30843e-36	1.00000
rad41	1.91654e-38	0.999999	1.91673e-38	1.00000

10000.0000 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.99037e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.434721	0.434721	0.434780	0.434780
rad21	0.236816	0.671537	0.236849	0.671629
rad22	0.177040	0.848577	0.177064	0.848693
rad18	0.119669	0.968246	0.119685	0.968378
Indene+H	0.0193638	0.987610	0.0193665	0.987745
rad45	0.0109336	0.998543	0.0109351	0.998680
rad36	0.000693531	0.999237	0.000693625	0.999373
rad23	0.000449649	0.999687	0.000449710	0.999823
rad11	0.000175780	0.999862	0.000175804	0.999999
Benzyl+C2H2	0.000136206	0.999999	0.000000	0.999999
rad6	7.80449e-07	0.999999	7.80556e-07	1.000000
rad24	1.57118e-08	0.999999	1.57139e-08	1.000000
rad30	6.32319e-10	0.999999	6.32405e-10	1.000000
rad15	7.28831e-11	0.999999	7.28930e-11	1.000000
rad7	6.00815e-12	0.999999	6.00897e-12	1.000000
rad25	4.12252e-12	0.999999	4.12309e-12	1.000000
rad13	3.11358e-12	0.999999	3.11401e-12	1.000000
rad8	5.50187e-13	0.999999	5.50262e-13	1.000000
PhCHCCH2+H	2.83734e-13	0.999999	2.83773e-13	1.000000
rad38	1.27595e-13	0.999999	1.27613e-13	1.000000
rad9	2.23302e-14	0.999999	2.23332e-14	1.000000
Ph+Allene	8.34459e-15	0.999999	8.34573e-15	1.000000
rad33	5.44572e-15	0.999999	5.44646e-15	1.000000
PAH9+H	3.90096e-15	0.999999	3.90149e-15	1.000000
rad60syn	2.80987e-15	0.999999	2.81025e-15	1.000000
rad3	2.51008e-15	0.999999	2.51042e-15	1.000000
rad35	2.26592e-15	0.999999	2.26623e-15	1.000000
rad4	1.31351e-15	0.999999	1.31369e-15	1.000000
rad60anti	7.66468e-16	0.999999	7.66572e-16	1.000000
rad28	6.28801e-16	0.999999	6.28887e-16	1.000000
rad46	5.28440e-16	0.999999	5.28512e-16	1.000000
PhCH2CCH+H	2.17528e-16	0.999999	2.17557e-16	1.000000
rad2	2.33574e-17	0.999999	2.33606e-17	1.000000
PAH7+H	6.37541e-18	0.999999	6.37628e-18	1.000000
PAH3+H	4.06345e-18	0.999999	4.06401e-18	1.000000
rad1	1.66507e-18	0.999999	1.66530e-18	1.000000
rad59	1.33630e-18	0.999999	1.33649e-18	1.000000
PhCCH+CH3	9.03802e-19	0.999999	9.03925e-19	1.000000
rad26	8.04169e-20	0.999999	8.04278e-20	1.000000
rad10	4.04954e-20	0.999999	4.05009e-20	1.000000
rad14	2.27343e-20	0.999999	2.27374e-20	1.000000
rad50	2.76374e-21	0.999999	2.76412e-21	1.000000
Ph+MeAc	2.68556e-21	0.999999	2.68593e-21	1.000000
PhCCCH3+H	3.27549e-22	0.999999	3.27594e-22	1.000000

rad27	4.47645e-23	0.999999	4.47706e-23	1.000000
rad39	1.85173e-23	0.999999	1.85198e-23	1.000000
rad31	2.27463e-24	0.999999	2.27494e-24	1.000000
rad52	6.97163e-25	0.999999	6.97258e-25	1.000000
rad12	5.05682e-26	0.999999	5.05751e-26	1.000000
rad51	1.91558e-26	0.999999	1.91584e-26	1.000000
rad19syn	1.16106e-26	0.999999	1.16122e-26	1.000000
rad58	8.96916e-27	0.999999	8.97038e-27	1.000000
rad70	4.47620e-27	0.999999	4.47681e-27	1.000000
rad37	4.31539e-27	0.999999	4.31598e-27	1.000000
rad5	2.54535e-27	0.999999	2.54570e-27	1.000000
rad54	9.71371e-28	0.999999	9.71503e-28	1.000000
rad65	1.54274e-29	0.999999	1.54295e-29	1.000000
rad34	9.37592e-30	0.999999	9.37720e-30	1.000000
rad62	6.52187e-30	0.999999	6.52276e-30	1.000000
PhcycC3H3_A+H	2.31018e-30	0.999999	2.31050e-30	1.000000
rad47	1.35996e-30	0.999999	1.36014e-30	1.000000
rad55	1.20013e-30	0.999999	1.20153e-30	1.000000
rad43	2.91815e-31	0.999999	2.91854e-31	1.000000
PAH10+CH3	1.25651e-31	0.999999	1.25668e-31	1.000000
PAH1+H	7.81932e-34	0.999999	7.82039e-34	1.000000
rad42	4.19396e-35	0.999999	4.19453e-35	1.000000
rad41	5.20388e-37	0.999999	5.20459e-37	1.000000

10000.0000 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17742e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.412277	0.412277	0.412353	0.412353
rad21	0.229434	0.641711	0.229477	0.641830
rad22	0.194775	0.836486	0.194811	0.836641
rad18	0.125874	0.962360	0.125898	0.962539
Indene+H	0.0233862	0.985746	0.0233905	0.985930
rad45	0.0124731	0.998219	0.0124754	0.998405
rad36	0.000794703	0.999014	0.000794850	0.999200
rad23	0.000580415	0.999594	0.000580523	0.999780
rad11	0.000218601	0.999813	0.000218642	0.999999
Benzyl+C2H2	0.000184917	0.999998	0.000000	0.999999
rad6	1.21618e-06	0.999999	1.21641e-06	1.00000
rad24	1.50294e-08	0.999999	1.50322e-08	1.00000
rad30	1.07581e-09	0.999999	1.07601e-09	1.00000
rad15	1.33333e-10	0.999999	1.33358e-10	1.00000
rad7	1.22092e-11	0.999999	1.22115e-11	1.00000
rad25	8.23960e-12	0.999999	8.24112e-12	1.00000
rad13	5.13153e-12	0.999999	5.13248e-12	1.00000
rad8	1.41950e-12	0.999999	1.41976e-12	1.00000
PhCHCCH2+H	7.22798e-13	0.999999	7.22932e-13	1.00000
rad38	2.50069e-13	0.999999	2.50115e-13	1.00000
rad9	6.18009e-14	0.999999	6.18123e-14	1.00000
Ph+Allene	2.67692e-14	0.999999	2.67742e-14	1.00000
PAH9+H	8.93190e-15	0.999999	8.93355e-15	1.00000
rad33	8.81125e-15	0.999999	8.81288e-15	1.00000
rad60syn	7.56944e-15	0.999999	7.57084e-15	1.00000
rad3	6.01693e-15	0.999999	6.01805e-15	1.00000
rad35	5.01336e-15	0.999999	5.01428e-15	1.00000
rad4	3.15868e-15	0.999999	3.15926e-15	1.00000
rad60anti	2.15674e-15	0.999999	2.15714e-15	1.00000
rad28	1.70838e-15	0.999999	1.70870e-15	1.00000
rad46	1.28058e-15	0.999999	1.28082e-15	1.00000
PhCH2CCH+H	8.64768e-16	0.999999	8.64928e-16	1.00000
rad2	7.68513e-17	0.999999	7.68655e-17	1.00000
PAH7+H	2.05336e-17	0.999999	2.05374e-17	1.00000
PAH3+H	1.60571e-17	0.999999	1.60601e-17	1.00000
rad1	5.54001e-18	0.999999	5.54104e-18	1.00000
rad59	5.15871e-18	0.999999	5.15967e-18	1.00000
PhCCH+CH3	3.73704e-18	0.999999	3.73773e-18	1.00000
rad26	2.94824e-19	0.999999	2.94879e-19	1.00000
rad10	1.77606e-19	0.999999	1.77638e-19	1.00000
rad14	8.08685e-20	0.999999	8.08834e-20	1.00000
Ph+MeAc	1.34412e-20	0.999999	1.34436e-20	1.00000
rad50	1.25354e-20	0.999999	1.25377e-20	1.00000
PhCCCH3+H	1.80466e-21	0.999999	1.80499e-21	1.00000
rad27	1.77979e-22	0.999999	1.78012e-22	1.00000
rad39	8.10152e-23	0.999999	8.10301e-23	1.00000
rad31	6.05821e-24	0.999999	6.05933e-24	1.00000
rad52	4.39074e-24	0.999999	4.39155e-24	1.00000

rad12	2.48160e-25	0.999999	2.48206e-25	1.00000
rad51	1.55101e-25	0.999999	1.55130e-25	1.00000
rad19syn	8.40544e-26	0.999999	8.40699e-26	1.00000
rad58	7.59268e-26	0.999999	7.59409e-26	1.00000
rad70	3.80684e-26	0.999999	3.80754e-26	1.00000
rad37	2.32060e-26	0.999999	2.32103e-26	1.00000
rad5	1.86598e-26	0.999999	1.86633e-26	1.00000
rad54	7.34689e-27	0.999999	7.34825e-27	1.00000
rad65	1.47641e-28	0.999999	1.47668e-28	1.00000
rad34	9.43644e-29	0.999999	9.43818e-29	1.00000
rad62	5.97807e-29	0.999999	5.97917e-29	1.00000
PhcycC3H3_A+H	2.27326e-29	0.999999	2.27368e-29	1.00000
rad47	1.25387e-29	0.999999	1.25410e-29	1.00000
rad55	1.11929e-29	0.999999	1.11950e-29	1.00000
rad43	2.87824e-30	0.999999	2.87877e-30	1.00000
PAH10+CH3	1.05419e-30	0.999999	1.05438e-30	1.00000
PAH1+H	8.26416e-33	0.999999	8.26569e-33	1.00000
rad42	4.93040e-34	0.999999	4.93131e-34	1.00000
rad41	6.57829e-36	0.999999	6.57950e-36	1.00000

10000.0000 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19373e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.389719	0.389719	0.389816	0.389816
rad21	0.221038	0.610757	0.221093	0.610909
rad22	0.213074	0.823831	0.213127	0.824036
rad18	0.131755	0.955586	0.131788	0.955824
Indene+H	0.0280998	0.983686	0.0281068	0.983931
rad45	0.0141428	0.997829	0.0141463	0.998077
rad36	0.000905613	0.998734	0.000905838	0.998983
rad23	0.000745101	0.999479	0.000745286	0.999728
rad11	0.000269648	0.999749	0.000269715	0.999998
Benzyl+C2H2	0.000248482	0.999997	0.000000	0.999998
rad6	1.87135e-06	0.999999	1.87182e-06	1.000000
rad24	1.44059e-08	0.999999	1.44094e-08	1.000000
rad30	1.78422e-09	0.999999	1.78466e-09	1.000000
rad15	2.36111e-10	0.999999	2.36170e-10	1.000000
rad7	2.42825e-11	0.999999	2.42886e-11	1.000000
rad25	1.58500e-11	0.999999	1.58539e-11	1.000000
rad13	8.27510e-12	0.999999	8.27716e-12	1.000000
rad8	3.42358e-12	0.999999	3.42443e-12	1.000000
PhCHCCH2+H	1.75163e-12	0.999999	1.75207e-12	1.000000
rad38	4.81298e-13	0.999999	4.81418e-13	1.000000
rad9	1.61343e-13	0.999999	1.61383e-13	1.000000
Ph+Allene	7.98301e-14	0.999999	7.98500e-14	1.000000
PAH9+H	2.01033e-14	0.999999	2.01083e-14	1.000000
rad60syn	1.90225e-14	0.999999	1.90272e-14	1.000000
rad33	1.39690e-14	0.999999	1.39725e-14	1.000000
rad3	1.39632e-14	0.999999	1.39667e-14	1.000000
rad35	1.09242e-14	0.999999	1.09269e-14	1.000000
rad4	7.35572e-15	0.999999	7.35755e-15	1.000000
rad60anti	5.63658e-15	0.999999	5.63798e-15	1.000000
rad28	4.35696e-15	0.999999	4.35805e-15	1.000000
PhCH2CCH+H	3.12251e-15	0.999999	3.12328e-15	1.000000
rad46	2.99796e-15	0.999999	2.99870e-15	1.000000
rad2	2.41486e-16	0.999999	2.41546e-16	1.000000
PAH7+H	6.11331e-17	0.999999	6.11483e-17	1.000000
PAH3+H	5.73859e-17	0.999999	5.74001e-17	1.000000
rad59	1.80267e-17	0.999999	1.80312e-17	1.000000
rad1	1.76199e-17	0.999999	1.76243e-17	1.000000
PhCCH+CH3	1.44893e-17	0.999999	1.44929e-17	1.000000
rad26	9.84022e-19	0.999999	9.84267e-19	1.000000
rad10	7.32848e-19	0.999999	7.33030e-19	1.000000
rad14	2.68973e-19	0.999999	2.69040e-19	1.000000
Ph+MeAc	6.19446e-20	0.999999	6.19600e-20	1.000000
rad50	5.23824e-20	0.999999	5.23954e-20	1.000000
PhCCCH3+H	9.19475e-21	0.999999	9.19703e-21	1.000000
rad27	6.56485e-22	0.999999	6.56649e-22	1.000000
rad39	3.31350e-22	0.999999	3.31433e-22	1.000000
rad52	2.48576e-23	0.999999	2.48638e-23	1.000000
rad31	1.57478e-23	0.999999	1.57517e-23	1.000000
rad12	1.11127e-24	0.999999	1.11154e-24	1.000000
rad51	1.10648e-24	0.999999	1.10675e-24	1.000000
rad58	5.37852e-25	0.999999	5.37985e-25	1.000000
rad19syn	5.30454e-25	0.999999	5.30586e-25	1.000000

rad70	2.71790e-25	0.999999	2.71857e-25	1.000000
rad5	1.22031e-25	0.999999	1.22061e-25	1.000000
rad37	1.13312e-25	0.999999	1.13341e-25	1.000000
rad54	4.79911e-26	0.999999	4.80030e-26	1.000000
rad65	1.22155e-27	0.999999	1.22186e-27	1.000000
rad34	7.67553e-28	0.999999	7.67744e-28	1.000000
rad62	4.63238e-28	0.999999	4.63353e-28	1.000000
PhcycC3H3_A+H	1.84198e-28	0.999999	1.84244e-28	1.000000
rad47	9.90793e-29	0.999999	9.91039e-29	1.000000
rad55	8.66538e-29	0.999999	8.66754e-29	1.000000
rad43	2.40640e-29	0.999999	2.40700e-29	1.000000
PAH10+CH3	7.56055e-30	0.999999	7.56243e-30	1.000000
PAH1+H	7.06967e-32	0.999999	7.07143e-32	1.000000
rad42	4.64764e-33	0.999999	4.64880e-33	1.000000
rad41	6.71353e-35	0.999999	6.71520e-35	1.000000

10000.0000 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.03875e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.367125	0.367125	0.367247	0.367247
rad22	0.231774	0.598899	0.231850	0.599097
rad21	0.211764	0.810663	0.211834	0.810931
rad18	0.137188	0.947851	0.137234	0.948165
Indene+H	0.0335722	0.981423	0.0335833	0.981748
rad45	0.0159362	0.997359	0.0159415	0.997690
rad36	0.00102619	0.998386	0.00102653	0.998716
rad23	0.000951167	0.999337	0.000951482	0.999668
Benzyl+C2H2	0.000330492	0.999667	0.000000	0.999668
rad11	0.000329873	0.999997	0.000329982	0.999998
rad6	2.84273e-06	1.000000	2.84367e-06	1.000000
rad24	1.38346e-08	1.000000	1.38392e-08	1.000000
rad30	2.88793e-09	1.000000	2.88889e-09	1.000000
rad15	4.05624e-10	1.000000	4.05759e-10	1.000000
rad7	4.72446e-11	1.000000	4.72602e-11	1.000000
rad25	2.93926e-11	1.000000	2.94024e-11	1.000000
rad13	1.30695e-11	1.000000	1.30738e-11	1.000000
rad8	7.77596e-12	1.000000	7.77853e-12	1.000000
PhCHCCH2+H	4.05506e-12	1.000000	4.05640e-12	1.000000
rad38	9.11257e-13	1.000000	9.11558e-13	1.000000
rad9	3.99090e-13	1.000000	3.99222e-13	1.000000
Ph+Allene	2.22896e-13	1.000000	2.22970e-13	1.000000
rad60syn	4.49214e-14	1.000000	4.49362e-14	1.000000
PAH9+H	4.45475e-14	1.000000	4.45623e-14	1.000000
rad3	3.13995e-14	1.000000	3.14099e-14	1.000000
rad35	2.34711e-14	1.000000	2.34788e-14	1.000000
rad33	2.17230e-14	1.000000	2.17302e-14	1.000000
rad4	1.66035e-14	1.000000	1.66090e-14	1.000000
rad60anti	1.37899e-14	1.000000	1.37945e-14	1.000000
rad28	1.05015e-14	1.000000	1.05050e-14	1.000000
PhCH2CCH+H	1.03434e-14	1.000000	1.03468e-14	1.000000
rad46	6.81027e-15	1.000000	6.81252e-15	1.000000
rad2	7.25625e-16	1.000000	7.25865e-16	1.000000
PAH3+H	1.87523e-16	1.000000	1.87585e-16	1.000000
PAH7+H	1.69797e-16	1.000000	1.69853e-16	1.000000
rad59	5.76447e-17	1.000000	5.76638e-17	1.000000
rad1	5.36405e-17	1.000000	5.36583e-17	1.000000
PhCCH+CH3	5.28427e-17	1.000000	5.28601e-17	1.000000
rad26	3.02211e-18	1.000000	3.02311e-18	1.000000
rad10	2.84933e-18	1.000000	2.85027e-18	1.000000
rad14	8.38915e-19	1.000000	8.39193e-19	1.000000
Ph+MeAc	2.64378e-19	1.000000	2.64465e-19	1.000000
rad50	2.04076e-19	1.000000	2.04144e-19	1.000000
PhCCCH3+H	4.34683e-20	1.000000	4.34827e-20	1.000000
rad27	2.25756e-21	1.000000	2.25831e-21	1.000000
rad39	1.27771e-21	1.000000	1.27814e-21	1.000000
rad52	1.28435e-22	1.000000	1.28477e-22	1.000000
rad31	4.00108e-23	1.000000	4.00241e-23	1.000000
rad51	7.07674e-24	1.000000	7.07908e-24	1.000000
rad12	4.58624e-24	1.000000	4.58776e-24	1.000000
rad58	3.28550e-24	1.000000	3.28658e-24	1.000000
rad19syn	2.96262e-24	1.000000	2.96360e-24	1.000000
rad70	1.67506e-24	1.000000	1.67561e-24	1.000000
rad5	7.18394e-25	1.000000	7.18631e-25	1.000000
rad37	5.07505e-25	1.000000	5.07672e-25	1.000000
rad54	2.75672e-25	1.000000	2.75764e-25	1.000000

rad65	8.93843e-27	1.000000	8.94139e-27	1.00000
rad34	5.33103e-27	1.000000	5.33279e-27	1.00000
rad62	3.11114e-27	1.000000	3.11217e-27	1.00000
PhcycC3H3_A+H	1.28042e-27	1.000000	1.28085e-27	1.00000
rad47	6.85610e-28	1.000000	6.85837e-28	1.00000
rad55	5.77539e-28	1.000000	5.77730e-28	1.00000
rad43	1.74688e-28	1.000000	1.74746e-28	1.00000
PAH10+CH3	4.76135e-29	1.000000	4.76293e-29	1.00000
PAH1+H	5.19182e-31	1.000000	5.19354e-31	1.00000
rad42	3.72668e-32	1.000000	3.72791e-32	1.00000
rad41	5.81661e-34	1.000000	5.81854e-34	1.00000

10000.0000 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89275e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.344591	0.344591	0.344741	0.344741
rad22	0.250692	0.595283	0.250801	0.595542
rad21	0.201756	0.797039	0.201844	0.797386
rad18	0.142051	0.939090	0.142113	0.939499
Indene+H	0.0398634	0.978953	0.0398808	0.979380
rad45	0.0178432	0.996797	0.0178510	0.997231
rad23	0.00120737	0.998004	0.00120790	0.998439
rad36	0.00115616	0.999160	0.00115666	0.999595
Benzyl+C2H2	0.000435124	0.999595	0.000000	0.999595
rad11	0.000400193	0.999995	0.000400367	0.999996
rad6	4.26294e-06	1.000000	4.26479e-06	1.000000
rad24	1.33106e-08	1.000000	1.33164e-08	1.00000
rad30	4.56709e-09	1.000000	4.56908e-09	1.00000
rad15	6.77353e-10	1.000000	6.77648e-10	1.00000
rad7	8.98928e-11	1.000000	8.99319e-11	1.00000
rad25	5.26252e-11	1.000000	5.26481e-11	1.00000
rad13	2.02364e-11	1.000000	2.02452e-11	1.00000
rad8	1.67378e-11	1.000000	1.67451e-11	1.00000
PhCHCCH2+H	8.99985e-12	1.000000	9.00377e-12	1.00000
rad38	1.70026e-12	1.000000	1.70100e-12	1.00000
rad9	9.39027e-13	1.000000	9.39436e-13	1.00000
Ph+Allene	5.86272e-13	1.000000	5.86527e-13	1.00000
rad60syn	1.00309e-13	1.000000	1.00352e-13	1.00000
PAH9+H	9.73729e-14	1.000000	9.74153e-14	1.00000
rad3	6.84770e-14	1.000000	6.85068e-14	1.00000
rad35	4.97916e-14	1.000000	4.98132e-14	1.00000
rad4	3.63575e-14	1.000000	3.63733e-14	1.00000
rad33	3.31706e-14	1.000000	3.31850e-14	1.00000
rad60anti	3.17957e-14	1.000000	3.18095e-14	1.00000
PhCH2CCH+H	3.17046e-14	1.000000	3.17184e-14	1.00000
rad28	2.40666e-14	1.000000	2.40770e-14	1.00000
rad46	1.50734e-14	1.000000	1.50800e-14	1.00000
rad2	2.08745e-15	1.000000	2.08836e-15	1.00000
PAH3+H	5.65569e-16	1.000000	5.65815e-16	1.00000
PAH7+H	4.43451e-16	1.000000	4.43644e-16	1.00000
PhCCH+CH3	1.81762e-16	1.000000	1.81841e-16	1.00000
rad59	1.70265e-16	1.000000	1.70339e-16	1.00000
rad1	1.56495e-16	1.000000	1.56563e-16	1.00000
rad10	1.04532e-17	1.000000	1.04577e-17	1.00000
rad26	8.61981e-18	1.000000	8.62356e-18	1.00000
rad14	2.46059e-18	1.000000	2.46166e-18	1.00000
Ph+MeAc	1.04983e-18	1.000000	1.05029e-18	1.00000
rad50	7.49094e-19	1.000000	7.49420e-19	1.00000
PhCCCH3+H	1.91167e-19	1.000000	1.91250e-19	1.00000
rad27	7.27074e-21	1.000000	7.27390e-21	1.00000
rad39	4.67977e-21	1.000000	4.68181e-21	1.00000
rad52	6.13396e-22	1.000000	6.13663e-22	1.00000
rad31	9.94993e-23	1.000000	9.95426e-23	1.00000
rad51	4.11154e-23	1.000000	4.11333e-23	1.00000
rad12	1.75895e-23	1.000000	1.75972e-23	1.00000
rad58	1.75136e-23	1.000000	1.75212e-23	1.00000
rad19syn	1.47783e-23	1.000000	1.47847e-23	1.00000
rad70	9.01750e-24	1.000000	9.02143e-24	1.00000
rad5	3.82837e-24	1.000000	3.83004e-24	1.00000
rad37	2.10165e-24	1.000000	2.10256e-24	1.00000
rad54	1.40640e-24	1.000000	1.40702e-24	1.00000
rad65	5.86441e-26	1.000000	5.86696e-26	1.00000
rad34	3.18371e-26	1.000000	3.18509e-26	1.00000
rad62	1.82991e-26	1.000000	1.83071e-26	1.00000
PhcycC3H3_A+H	7.70031e-27	1.000000	7.70367e-27	1.00000

rad47	4.22397e-27	1.000000	4.22581e-27	1.00000
rad55	3.34528e-27	1.000000	3.34674e-27	1.00000
rad43	1.11202e-27	1.000000	1.11250e-27	1.00000
PAH10+CH3	2.65809e-28	1.000000	2.65924e-28	1.00000
PAH1+H	3.29148e-30	1.000000	3.29291e-30	1.00000
rad42	2.55518e-31	1.000000	2.55630e-31	1.00000
rad41	4.31589e-33	1.000000	4.31777e-33	1.00000

10000.0000 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.19777e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.322224	0.322224	0.322407	0.322407
rad22	0.269635	0.591859	0.269788	0.592195
rad21	0.191168	0.783027	0.191277	0.783472
rad18	0.146226	0.929253	0.146309	0.929781
Indene+H	0.0470232	0.976276	0.0470499	0.976831
rad45	0.0198500	0.996126	0.0198613	0.996692
rad23	0.00152395	0.997650	0.00152481	0.998217
rad36	0.00129503	0.998945	0.00129576	0.999513
Benzyl+C2H2	0.000567170	0.999512	0.000000	0.999513
rad11	0.000481461	0.999994	0.000481734	0.999995
rad6	6.31078e-06	1.00000	6.31436e-06	1.00000
rad24	1.28297e-08	1.00000	1.28370e-08	1.00000
rad30	7.06437e-09	1.00000	7.06838e-09	1.00000
rad15	1.10145e-09	1.00000	1.10208e-09	1.00000
rad7	1.67235e-10	1.00000	1.67330e-10	1.00000
rad25	9.11004e-11	1.00000	9.11521e-11	1.00000
rad8	3.43304e-11	1.00000	3.43499e-11	1.00000
rad13	3.07484e-11	1.00000	3.07658e-11	1.00000
PhCHCCH2+H	1.92090e-11	1.00000	1.92199e-11	1.00000
rad38	3.13223e-12	1.00000	3.13401e-12	1.00000
rad9	2.10929e-12	1.00000	2.11048e-12	1.00000
Ph+Allene	1.46028e-12	1.00000	1.46111e-12	1.00000
rad60syn	2.12950e-13	1.00000	2.13070e-13	1.00000
PAH9+H	2.10417e-13	1.00000	2.10537e-13	1.00000
rad3	1.44933e-13	1.00000	1.45016e-13	1.00000
rad35	1.04468e-13	1.00000	1.04527e-13	1.00000
PhCH2CCH+H	9.05990e-14	1.00000	9.06504e-14	1.00000
rad4	7.72906e-14	1.00000	7.73345e-14	1.00000
rad60anti	6.94983e-14	1.00000	6.95377e-14	1.00000
rad28	5.27223e-14	1.00000	5.27522e-14	1.00000
rad33	4.97841e-14	1.00000	4.98123e-14	1.00000
rad46	3.26336e-14	1.00000	3.26521e-14	1.00000
rad2	5.75523e-15	1.00000	5.75849e-15	1.00000
PAH3+H	1.58711e-15	1.00000	1.58801e-15	1.00000
PAH7+H	1.09640e-15	1.00000	1.09703e-15	1.00000
PhCCH+CH3	5.91067e-16	1.00000	5.91403e-16	1.00000
rad59	4.68281e-16	1.00000	4.68547e-16	1.00000
rad1	4.38021e-16	1.00000	4.38270e-16	1.00000
rad10	3.62349e-17	1.00000	3.62555e-17	1.00000
rad26	2.30199e-17	1.00000	2.30330e-17	1.00000
rad14	6.80586e-18	1.00000	6.80972e-18	1.00000
Ph+MeAc	3.89441e-18	1.00000	3.89662e-18	1.00000
rad50	2.61474e-18	1.00000	2.61622e-18	1.00000
PhCCCH3+H	7.84047e-19	1.00000	7.84492e-19	1.00000
rad27	2.20211e-20	1.00000	2.20336e-20	1.00000
rad39	1.63898e-20	1.00000	1.63991e-20	1.00000
rad52	2.73635e-21	1.00000	2.73790e-21	1.00000
rad31	2.42496e-22	1.00000	2.42634e-22	1.00000
rad51	2.19315e-22	1.00000	2.19440e-22	1.00000
rad58	8.25508e-23	1.00000	8.25977e-23	1.00000
rad19syn	6.64229e-23	1.00000	6.64606e-23	1.00000
rad12	6.31615e-23	1.00000	6.31974e-23	1.00000
rad70	4.29519e-23	1.00000	4.29763e-23	1.00000
rad5	1.85761e-23	1.00000	1.85866e-23	1.00000
rad37	8.10676e-24	1.00000	8.11136e-24	1.00000
rad54	6.43543e-24	1.00000	6.43909e-24	1.00000
rad65	3.49178e-25	1.00000	3.49376e-25	1.00000
rad34	1.66041e-25	1.00000	1.66136e-25	1.00000
rad62	9.53837e-26	1.00000	9.54378e-26	1.00000
PhcycC3H3_A+H	4.06226e-26	1.00000	4.06457e-26	1.00000
rad47	2.34870e-26	1.00000	2.35004e-26	1.00000
rad55	1.70634e-26	1.00000	1.70731e-26	1.00000
rad43	6.27893e-27	1.00000	6.28249e-27	1.00000
PAH10+CH3	1.33228e-27	1.00000	1.33304e-27	1.00000

PAH1+H	1.83264e-29	1.00000	1.83368e-29	1.00000
rad42	1.52333e-30	1.00000	1.52419e-30	1.00000
rad41	2.78727e-32	1.00000	2.78885e-32	1.00000

10000.0000 Pa, 300.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.17740e-22 (1.00)		1.17590e-22 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

rad22	0.342784	0.342784	0.343223	0.343223
rad20	0.242561	0.585345	0.242872	0.586095
rad21	0.148223	0.733568	0.148413	0.734508
rad18	0.145241	0.878809	0.145427	0.879935
Indene+H	0.0877805	0.966589	0.0878929	0.967828
rad45	0.0261506	0.992740	0.0261840	0.994012
rad23	0.00432471	0.997065	0.00433025	0.998342
Benzyl+C2H2	0.00127802	0.998343	0.000000	0.998342
rad36	0.000892472	0.999235	0.000893614	0.999236
rad11	0.000739648	0.999975	0.000740595	0.999976
rad6	2.49937e-05	1.000000	2.50257e-05	1.000000
rad24	3.86725e-08	1.000000	3.87220e-08	1.000000
rad30	2.33065e-08	1.000000	2.33364e-08	1.000000
rad9	3.59367e-09	1.000000	3.59827e-09	1.000000
rad7	1.82876e-09	1.000000	1.83110e-09	1.000000
rad25	4.42834e-10	1.000000	4.43401e-10	1.000000
rad38	2.62825e-10	1.000000	2.63161e-10	1.000000
PhCHCCH2+H	2.02638e-10	1.000000	2.02897e-10	1.000000
PAH9+H	1.90262e-10	1.000000	1.90505e-10	1.000000
rad15	1.88222e-10	1.000000	1.88463e-10	1.000000
rad13	1.21411e-10	1.000000	1.21566e-10	1.000000
rad35	5.59404e-11	1.000000	5.60120e-11	1.000000
Ph+Allene	1.42519e-11	1.000000	1.42701e-11	1.000000
rad46	1.25917e-11	1.000000	1.26078e-11	1.000000
rad3	2.80468e-12	1.000000	2.80827e-12	1.000000
rad28	1.58524e-12	1.000000	1.58727e-12	1.000000
PhCH2CCH+H	1.45714e-12	1.000000	1.45901e-12	1.000000
rad4	1.40147e-12	1.000000	1.40326e-12	1.000000
rad60syn	1.03663e-12	1.000000	1.03796e-12	1.000000
rad2	5.22928e-13	1.000000	5.23597e-13	1.000000
rad60anti	3.32142e-13	1.000000	3.32567e-13	1.000000
rad33	2.04783e-13	1.000000	2.05045e-13	1.000000
PhCCH+CH3	1.79172e-13	1.000000	1.79402e-13	1.000000
PAH7+H	1.60932e-13	1.000000	1.61138e-13	1.000000
rad50	9.06716e-14	1.000000	9.07877e-14	1.000000
rad1	3.95506e-14	1.000000	3.96012e-14	1.000000
rad19anti	1.78874e-14	1.000000	1.79103e-14	1.000000
rad10	1.47863e-14	1.000000	1.48052e-14	1.000000
PAH3+H	1.31251e-14	1.000000	1.31419e-14	1.000000
rad26	9.47139e-15	1.000000	9.48351e-15	1.000000
Ph+MeAc	5.45528e-15	1.000000	5.46226e-15	1.000000
rad39	3.96911e-15	1.000000	3.97419e-15	1.000000
PhCCCH3+H	2.97297e-15	1.000000	2.97678e-15	1.000000
rad59	2.91511e-15	1.000000	2.91884e-15	1.000000
rad52	1.16661e-15	1.000000	1.16810e-15	1.000000
rad51	7.30978e-16	1.000000	7.31913e-16	1.000000
rad14	3.95399e-16	1.000000	3.95905e-16	1.000000
rad12	7.98445e-17	1.000000	7.99467e-17	1.000000
rad37	1.54295e-17	1.000000	1.54492e-17	1.000000
rad65	1.46041e-17	1.000000	1.46228e-17	1.000000
rad19syn	2.90651e-18	1.000000	2.91023e-18	1.000000
rad27	2.81874e-18	1.000000	2.82235e-18	1.000000
PAH10+CH3	6.82831e-19	1.000000	6.83705e-19	1.000000
rad54	5.96744e-19	1.000000	5.97508e-19	1.000000
rad70	5.93232e-19	1.000000	5.93991e-19	1.000000
rad67	5.03224e-19	1.000000	5.03868e-19	1.000000
rad58	3.58912e-19	1.000000	3.59371e-19	1.000000
PAH1+H	1.87934e-19	1.000000	1.88174e-19	1.000000
PhcycC3H3_A+H	1.78967e-19	1.000000	1.79196e-19	1.000000
rad5	1.08667e-19	1.000000	1.08806e-19	1.000000
rad34	3.85550e-20	1.000000	3.86044e-20	1.000000
rad62	1.80729e-20	1.000000	1.80961e-20	1.000000
rad55	1.80088e-20	1.000000	1.80319e-20	1.000000
rad31	1.50692e-20	1.000000	1.50885e-20	1.000000
rad43	6.34765e-21	1.000000	6.35577e-21	1.000000
rad47	4.05333e-21	1.000000	4.05851e-21	1.000000
rad73	2.54161e-21	1.000000	2.54486e-21	1.000000
rad64	5.17928e-22	1.000000	5.18590e-22	1.000000

rad71	3.57020e-22	1.00000	3.57476e-22	1.00000
rad53	1.96869e-22	1.00000	1.97121e-22	1.00000
rad42	1.17191e-22	1.00000	1.17341e-22	1.00000
rad56	3.23935e-23	1.00000	3.24350e-23	1.00000
rad68syn	2.40030e-23	1.00000	2.40337e-23	1.00000
rad41	2.23944e-23	1.00000	2.24230e-23	1.00000
rad68anti	1.66158e-23	1.00000	1.66370e-23	1.00000
rad61	8.02229e-24	1.00000	8.03255e-24	1.00000
PAH8+H	1.92961e-24	1.00000	1.93208e-24	1.00000
rad40syn	1.00799e-24	1.00000	1.00928e-24	1.00000
rad40anti	3.14102e-25	1.00000	3.14504e-25	1.00000
rad72	2.21849e-26	1.00000	2.22133e-26	1.00000
rad8	6.48060e-32	1.00000	6.48889e-32	1.00000

10000.0000 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.44453e-22 (1.00)	2.44224e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.306785	0.306785	0.307073	0.307073
rad20	0.278464	0.585249	0.278725	0.585798
rad21	0.168873	0.754122	0.169031	0.754829
rad18	0.152098	0.906220	0.152240	0.907069
Indene+H	0.0640779	0.970298	0.0641379	0.971207
rad45	0.0240891	0.994387	0.0241116	0.995318
rad23	0.00238757	0.996775	0.00238981	0.997708
rad36	0.00159635	0.998371	0.00159785	0.999306
Benzyl+C2H2	0.000935862	0.999307	0.000000	0.999306
rad11	0.000679730	0.999987	0.000680367	0.999987
rad6	1.33104e-05	1.000000	1.33228e-05	1.000000
rad30	1.58817e-08	1.000000	1.58966e-08	1.000000
rad24	1.19856e-08	1.000000	1.19968e-08	1.000000
rad15	2.70677e-09	1.000000	2.70931e-09	1.000000
rad7	5.40892e-10	1.000000	5.41399e-10	1.000000
rad25	2.48141e-10	1.000000	2.48373e-10	1.000000
rad8	1.27244e-10	1.000000	1.27363e-10	1.000000
PhCHCCH2+H	7.86509e-11	1.000000	7.87246e-11	1.000000
rad13	6.73389e-11	1.000000	6.74019e-11	1.000000
rad38	1.03129e-11	1.000000	1.03226e-11	1.000000
rad9	9.37995e-12	1.000000	9.38874e-12	1.000000
Ph+Allene	7.82961e-12	1.000000	7.83694e-12	1.000000
PAH9+H	9.59487e-13	1.000000	9.60386e-13	1.000000
rad60syn	8.39937e-13	1.000000	8.40724e-13	1.000000
PhCH2CCH+H	6.14641e-13	1.000000	6.15217e-13	1.000000
rad3	5.94956e-13	1.000000	5.95514e-13	1.000000
rad35	4.48583e-13	1.000000	4.49003e-13	1.000000
rad4	3.20393e-13	1.000000	3.20693e-13	1.000000
rad60anti	2.88488e-13	1.000000	2.88759e-13	1.000000
rad28	2.25145e-13	1.000000	2.25356e-13	1.000000
rad46	1.45278e-13	1.000000	1.45414e-13	1.000000
rad33	1.06857e-13	1.000000	1.06958e-13	1.000000
rad2	3.86558e-14	1.000000	3.86920e-14	1.000000
PAH3+H	1.03429e-14	1.000000	1.03526e-14	1.000000
PAH7+H	5.81762e-15	1.000000	5.82307e-15	1.000000
PhCCH+CH3	5.32526e-15	1.000000	5.33025e-15	1.000000
rad1	3.04175e-15	1.000000	3.04460e-15	1.000000
rad59	2.93762e-15	1.000000	2.94037e-15	1.000000
rad10	3.69312e-16	1.000000	3.69658e-16	1.000000
rad26	1.38657e-16	1.000000	1.38787e-16	1.000000
Ph+MeAc	4.42891e-17	1.000000	4.43306e-17	1.000000
rad14	4.41387e-17	1.000000	4.41801e-17	1.000000
rad50	2.81989e-17	1.000000	2.82253e-17	1.000000
PhCCCH3+H	1.08007e-17	1.000000	1.08108e-17	1.000000
rad39	1.79855e-19	1.000000	1.80024e-19	1.000000
rad27	1.70476e-19	1.000000	1.70635e-19	1.000000
rad52	4.56486e-20	1.000000	4.56914e-20	1.000000
rad51	4.96253e-21	1.000000	4.96718e-21	1.000000
rad31	1.36215e-21	1.000000	1.36342e-21	1.000000
rad58	1.32502e-21	1.000000	1.32626e-21	1.000000
rad19syn	1.01171e-21	1.000000	1.01266e-21	1.000000
rad70	7.04668e-22	1.000000	7.05328e-22	1.000000
rad12	6.86861e-22	1.000000	6.87505e-22	1.000000
rad5	3.37382e-22	1.000000	3.37698e-22	1.000000
rad54	1.00523e-22	1.000000	1.00617e-22	1.000000
rad37	1.00192e-22	1.000000	1.00286e-22	1.000000
rad65	9.54996e-24	1.000000	9.55891e-24	1.000000
rad34	3.16324e-24	1.000000	3.16620e-24	1.000000

rad62	1.87850e-24	1.000000	1.88026e-24	1.000000
PhcycC3H3_A+H	7.99211e-25	1.000000	7.99960e-25	1.000000
rad47	5.54851e-25	1.000000	5.55370e-25	1.000000
rad55	3.16863e-25	1.000000	3.17159e-25	1.000000
rad43	1.45319e-25	1.000000	1.45455e-25	1.000000
PAH10+CH3	2.53849e-26	1.000000	2.54087e-26	1.000000
PAH1+H	4.07722e-28	1.000000	4.08104e-28	1.000000
rad42	3.75494e-29	1.000000	3.75846e-29	1.000000
rad41	8.07400e-31	1.000000	8.08156e-31	1.000000

10000.0000 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.60269e-20 (1.00)	3.57382e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.440688	0.440688	0.444248	0.444248
Indene+H	0.225607	0.666295	0.227430	0.671678
rad18	0.108046	0.774341	0.108918	0.780596
rad20	0.0928215	0.867163	0.0935713	0.874167
rad21	0.0606052	0.927768	0.0610948	0.935262
rad45	0.0356791	0.963447	0.0359673	0.971229
rad23	0.0246243	0.988071	0.0248232	0.996053
Benzyl+C2H2	0.00801313	0.996084	0.000000	0.996053
rad11	0.00218501	0.998269	0.00220266	0.998255
rad36	0.00136830	0.999638	0.00137935	0.999635
rad6	0.000361236	0.999999	0.000364154	0.999999
rad30	3.25872e-07	0.999999	3.28504e-07	0.999999
PAH9+H	2.72004e-07	0.999999	2.74201e-07	0.999999
rad38	1.34594e-07	1.000000	1.35681e-07	1.000000
rad7	8.70528e-08	1.000000	8.77561e-08	1.000000
rad9	8.03800e-08	1.000000	8.10293e-08	1.000000
rad35	6.33875e-08	1.000000	6.38995e-08	1.000000
rad24	4.12071e-08	1.000000	4.15400e-08	1.000000
PhCHCCH2+H	2.60782e-08	1.000000	2.62888e-08	1.000000
rad46	1.60635e-08	1.000000	1.61933e-08	1.000000
Ph+Allene	8.62529e-09	1.000000	8.69496e-09	1.000000
rad25	8.02859e-09	1.000000	8.09344e-09	1.000000
PhCH2CCH+H	3.62458e-09	1.000000	3.65386e-09	1.000000
rad28	2.09307e-09	1.000000	2.10998e-09	1.000000
rad13	1.80999e-09	1.000000	1.82461e-09	1.000000
PAH7+H	1.54055e-09	1.000000	1.55299e-09	1.000000
PhCCH+CH3	1.37201e-09	1.000000	1.38309e-09	1.000000
rad50	9.63669e-10	1.000000	9.71453e-10	1.000000
rad15	8.02828e-10	1.000000	8.09314e-10	1.000000
rad3	2.31953e-10	1.000000	2.33827e-10	1.000000
rad2	2.16459e-10	1.000000	2.18208e-10	1.000000
rad39	2.15657e-10	1.000000	2.17399e-10	1.000000
Ph+MeAc	1.79278e-10	1.000000	1.80726e-10	1.000000
rad4	1.22649e-10	1.000000	1.23640e-10	1.000000
rad60syn	1.08015e-10	1.000000	1.08888e-10	1.000000
PhCCCH3+H	7.51305e-11	1.000000	7.57374e-11	1.000000
rad19anti	5.19824e-11	1.000000	5.24023e-11	1.000000
rad60anti	4.51928e-11	1.000000	4.55579e-11	1.000000
rad51	3.88809e-11	1.000000	3.91950e-11	1.000000
PAH3+H	3.52514e-11	1.000000	3.55361e-11	1.000000
rad52	3.02943e-11	1.000000	3.05391e-11	1.000000
rad26	2.98738e-11	1.000000	3.01151e-11	1.000000
rad1	2.02059e-11	1.000000	2.03691e-11	1.000000
rad10	1.79484e-11	1.000000	1.80934e-11	1.000000
rad59	5.48273e-12	1.000000	5.52702e-12	1.000000
rad33	3.19178e-12	1.000000	3.21756e-12	1.000000
rad37	2.19108e-12	1.000000	2.20878e-12	1.000000
rad65	1.09574e-12	1.000000	1.10459e-12	1.000000
rad19syn	8.86080e-13	1.000000	8.93237e-13	1.000000
PAH10+CH3	3.90098e-13	1.000000	3.93249e-13	1.000000
rad54	2.61059e-13	1.000000	2.63168e-13	1.000000
PAH1+H	1.50606e-13	1.000000	1.51823e-13	1.000000
PhcycC3H3_A+H	1.46994e-13	1.000000	1.48181e-13	1.000000
rad67	1.12625e-13	1.000000	1.13535e-13	1.000000
rad70	7.54894e-14	1.000000	7.60992e-14	1.000000
rad14	6.53981e-14	1.000000	6.59264e-14	1.000000
rad58	3.28355e-14	1.000000	3.31007e-14	1.000000
rad55	1.16252e-14	1.000000	1.17191e-14	1.000000
rad34	8.99495e-15	1.000000	9.06761e-15	1.000000
rad73	7.19628e-15	1.000000	7.25441e-15	1.000000
rad62	5.20706e-15	1.000000	5.24912e-15	1.000000
rad71	2.68345e-15	1.000000	2.70513e-15	1.000000

rad12	2.63099e-15	1.000000	2.65224e-15	1.000000
rad43	1.35917e-15	1.000000	1.37015e-15	1.000000
rad27	1.27463e-15	1.000000	1.28493e-15	1.000000
rad64	9.61818e-16	1.000000	9.69587e-16	1.000000
rad53	4.64509e-16	1.000000	4.68261e-16	1.000000
rad5	4.52464e-16	1.000000	4.56119e-16	1.000000
rad56	1.65882e-16	1.000000	1.67222e-16	1.000000
rad42	9.41416e-17	1.000000	9.49021e-17	1.000000
rad68syn	4.95024e-17	1.000000	4.99023e-17	1.000000
rad47	4.43815e-17	1.000000	4.47400e-17	1.000000
rad61	3.78270e-17	1.000000	3.81326e-17	1.000000
rad68anti	3.33609e-17	1.000000	3.36304e-17	1.000000
PAH8+H	2.02826e-17	1.000000	2.04464e-17	1.000000
rad31	1.56671e-17	1.000000	1.57937e-17	1.000000
rad41	1.50414e-17	1.000000	1.51629e-17	1.000000
rad40syn	5.54342e-18	1.000000	5.58820e-18	1.000000
rad72	3.61012e-18	1.000000	3.63928e-18	1.000000
rad40anti	2.32190e-18	1.000000	2.34066e-18	1.000000
rad8	9.26154e-29	1.000000	9.33636e-29	1.000000

10000.0000 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.18902e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.397769	0.397769	0.410124	0.410124
rad22	0.391792	0.789561	0.403962	0.814086
rad23	0.0494395	0.839000	0.0509751	0.865061
rad18	0.0485993	0.887600	0.0501088	0.915170
Benzyl+C2H2	0.0301247	0.917724	0.000000	0.915170
rad20	0.0284272	0.946152	0.0293102	0.944480
rad45	0.0275311	0.973683	0.0283862	0.972866
rad21	0.0192643	0.992947	0.0198627	0.992729
rad11	0.00352641	0.996474	0.00363594	0.996365
rad6	0.00219002	0.998664	0.00225805	0.998623
rad36	0.00128102	0.999945	0.00132081	0.999944
PAH9+H	2.48645e-05	0.999969	2.56368e-05	0.999969
rad38	1.06898e-05	0.999980	1.10219e-05	0.999980
rad35	4.84256e-06	0.999985	4.99298e-06	0.999985
Ph+Allene	2.77772e-06	0.999988	2.86400e-06	0.999988
rad30	2.10609e-06	0.999990	2.17151e-06	0.999990
rad46	2.07658e-06	0.999992	2.14107e-06	0.999993
PhCHCCH2+H	1.96179e-06	0.999994	2.02272e-06	0.999995
PhCH2CCH+H	1.42240e-06	0.999995	1.46658e-06	0.999996
rad7	1.03048e-06	0.999996	1.06249e-06	0.999997
rad9	8.18973e-07	0.999997	8.44410e-07	0.999998
PAH7+H	7.03132e-07	0.999998	7.24972e-07	0.999999
PhCCH+CH3	5.20473e-07	0.999998	5.36639e-07	0.999999
rad50	4.42470e-07	0.999999	4.56213e-07	1.000000
rad39	1.56474e-07	0.999999	1.61334e-07	1.000000
Ph+MeAc	8.24537e-08	0.999999	8.50148e-08	1.000000
rad28	7.37078e-08	0.999999	7.59972e-08	1.000000
rad24	6.71652e-08	0.999999	6.92514e-08	1.000000
rad51	4.90708e-08	0.999999	5.05949e-08	1.000000
rad25	3.35574e-08	0.999999	3.45997e-08	1.000000
rad19anti	3.12107e-08	0.999999	3.21801e-08	1.000000
PhCCCH3+H	2.36313e-08	0.999999	2.43653e-08	1.000000
rad52	2.35512e-08	0.999999	2.42827e-08	1.000000
PAH3+H	1.45015e-08	0.999999	1.49519e-08	1.000000
rad13	1.13864e-08	0.999999	1.17400e-08	1.000000
rad2	7.23242e-09	0.999999	7.45706e-09	1.000000
rad60syn	4.77402e-09	0.999999	4.92230e-09	1.000000
rad3	3.82213e-09	0.999999	3.94084e-09	1.000000
rad37	2.73813e-09	0.999999	2.82318e-09	1.000000
rad60anti	2.50289e-09	0.999999	2.58063e-09	1.000000
rad15	2.46125e-09	0.999999	2.53770e-09	1.000000
rad4	2.15856e-09	0.999999	2.22561e-09	1.000000
rad59	1.77589e-09	0.999999	1.83105e-09	1.000000
PAH10+CH3	1.71475e-09	0.999999	1.76801e-09	1.000000
rad19syn	1.52814e-09	0.999999	1.57561e-09	1.000000
rad65	1.42546e-09	0.999999	1.46974e-09	1.000000
rad26	1.18659e-09	0.999999	1.22344e-09	1.000000
rad1	8.65719e-10	0.999999	8.92608e-10	1.000000
rad10	7.75579e-10	0.999999	7.99669e-10	1.000000
PAH1+H	7.15744e-10	0.999999	7.37975e-10	1.000000
rad54	5.33488e-10	0.999999	5.50059e-10	1.000000
PhcycC3H3_A+H	4.59762e-10	0.999999	4.74042e-10	1.000000

rad67	3.32594e-10	0.999999	3.42924e-10	1.00000
rad73	1.50852e-10	0.999999	1.55538e-10	1.00000
rad70	1.50508e-10	0.999999	1.55183e-10	1.00000
rad71	1.26758e-10	0.999999	1.30696e-10	1.00000
rad58	5.29084e-11	0.999999	5.45518e-11	1.00000
rad55	2.99378e-11	0.999999	3.08677e-11	1.00000
rad34	2.71636e-11	0.999999	2.80073e-11	1.00000
rad33	2.35845e-11	0.999999	2.43171e-11	1.00000
rad62	9.09106e-12	0.999999	9.37344e-12	1.00000
rad64	8.68306e-12	0.999999	8.95276e-12	1.00000
rad53	2.96701e-12	0.999999	3.05917e-12	1.00000
rad56	1.85225e-12	0.999999	1.90978e-12	1.00000
rad43	1.85214e-12	0.999999	1.90967e-12	1.00000
rad72	1.57516e-12	0.999999	1.62409e-12	1.00000
rad14	1.22717e-12	0.999999	1.26529e-12	1.00000
PAH8+H	1.11885e-12	0.999999	1.15361e-12	1.00000
rad61	9.96115e-13	0.999999	1.02705e-12	1.00000
rad68syn	7.16151e-13	0.999999	7.38395e-13	1.00000
rad68anti	4.72223e-13	0.999999	4.86890e-13	1.00000
rad42	3.51191e-13	0.999999	3.62099e-13	1.00000
rad40syn	1.75155e-13	0.999999	1.80596e-13	1.00000
rad47	1.13285e-13	0.999999	1.16803e-13	1.00000
rad40anti	9.27449e-14	0.999999	9.56255e-14	1.00000
rad12	6.37120e-14	0.999999	6.56910e-14	1.00000
rad41	5.69984e-14	0.999999	5.87688e-14	1.00000
rad27	4.00941e-14	0.999999	4.13394e-14	1.00000
rad5	2.63574e-14	0.999999	2.71761e-14	1.00000
rad31	5.60614e-15	0.999999	5.78027e-15	1.00000
rad8	1.85794e-25	0.999999	1.91565e-25	1.00000

10000.0000 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.36947e-17 (1.00)	1.26196e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.559454	0.559454	0.607113	0.607113
rad22	0.254308	0.813762	0.275972	0.883085
Benzyl+C2H2	0.0785005	0.892262	0.00000	0.883085
rad23	0.0494669	0.941729	0.0536809	0.936766
rad18	0.0161038	0.957833	0.0174757	0.954242
rad45	0.0152489	0.973082	0.0165479	0.970789
rad20	0.00897127	0.982053	0.00973552	0.980525
rad6	0.00646222	0.988516	0.00701272	0.987538
rad21	0.00636492	0.994881	0.00690713	0.994445
rad11	0.00332503	0.998206	0.00360828	0.998053
rad36	0.000894283	0.999100	0.000970465	0.999024
PAH9+H	0.000366350	0.999466	0.000397559	0.999421
rad38	0.000165416	0.999632	0.000179507	0.999601
Ph+Allene	7.16583e-05	0.999703	7.77627e-05	0.999678
rad35	6.04275e-05	0.999764	6.55751e-05	0.999744
rad46	4.56301e-05	0.999809	4.95172e-05	0.999794
PhCH2CCH+H	4.44923e-05	0.999854	4.82825e-05	0.999842
PhCHCCH2+H	3.81287e-05	0.999892	4.13768e-05	0.999883
PAH7+H	3.18401e-05	0.999924	3.45525e-05	0.999918
rad50	2.64125e-05	0.999950	2.86625e-05	0.999946
rad39	1.08808e-05	0.999961	1.18077e-05	0.999958
rad30	8.48587e-06	0.999970	9.20877e-06	0.999967
PhCCH+CH3	7.74811e-06	0.999977	8.40815e-06	0.999976
rad51	6.10290e-06	0.999983	6.62279e-06	0.999982
rad7	4.29780e-06	0.999988	4.66392e-06	0.999987
rad9	3.72062e-06	0.999991	4.03757e-06	0.999991
rad52	2.03120e-06	0.999993	2.20423e-06	0.999993
Ph+MeAc	1.72465e-06	0.999995	1.87157e-06	0.999995
rad19anti	1.40754e-06	0.999997	1.52745e-06	0.999997
PAH3+H	8.63504e-07	0.999997	9.37064e-07	0.999998
PhCCCH3+H	4.44824e-07	0.999998	4.82717e-07	0.999998
PAH10+CH3	3.82895e-07	0.999998	4.15513e-07	0.999999
rad28	2.62642e-07	0.999999	2.85016e-07	0.999999
rad37	2.27505e-07	0.999999	2.46886e-07	0.999999
rad24	1.99518e-07	0.999999	2.16514e-07	0.999999
PAH1+H	1.80029e-07	0.999999	1.95365e-07	1.000000
rad65	1.66196e-07	0.999999	1.80354e-07	1.000000
rad71	1.27258e-07	0.999999	1.38099e-07	1.000000
rad60syn	1.01728e-07	1.000000	1.10394e-07	1.000000
rad73	9.99931e-08	1.000000	1.08511e-07	1.000000
rad59	8.79524e-08	1.000000	9.54449e-08	1.000000
rad19syn	7.61177e-08	1.000000	8.26020e-08	1.000000

rad60anti	5.99461e-08	1.000000	6.50528e-08	1.00000
rad25	5.52159e-08	1.000000	5.99196e-08	1.00000
rad67	5.38425e-08	1.000000	5.84292e-08	1.00000
rad2	4.17680e-08	1.000000	4.53261e-08	1.00000
PhcycC3H3_A+H	3.85849e-08	1.000000	4.18719e-08	1.00000
rad13	3.83033e-08	1.000000	4.15662e-08	1.00000
rad54	2.98069e-08	1.000000	3.23461e-08	1.00000
rad70	2.39406e-08	1.000000	2.59801e-08	1.00000
rad3	2.26899e-08	1.000000	2.46228e-08	1.00000
rad4	1.38502e-08	1.000000	1.50300e-08	1.00000
rad15	7.87532e-09	1.000000	8.54620e-09	1.00000
rad58	7.36647e-09	1.000000	7.99401e-09	1.00000
rad1	6.19337e-09	1.000000	6.72097e-09	1.00000
rad34	6.05783e-09	1.000000	6.57389e-09	1.00000
rad72	3.61925e-09	1.000000	3.92757e-09	1.00000
rad26	3.58895e-09	1.000000	3.89468e-09	1.00000
rad10	3.32474e-09	1.000000	3.60796e-09	1.00000
rad64	3.16186e-09	1.000000	3.43121e-09	1.00000
rad55	2.03468e-09	1.000000	2.20801e-09	1.00000
PAH8+H	1.40746e-09	1.000000	1.52736e-09	1.00000
rad62	1.27466e-09	1.000000	1.38325e-09	1.00000
rad61	6.47663e-10	1.000000	7.02836e-10	1.00000
rad68syn	4.50731e-10	1.000000	4.89127e-10	1.00000
rad53	4.42624e-10	1.000000	4.80331e-10	1.00000
rad56	4.21678e-10	1.000000	4.57600e-10	1.00000
rad68anti	2.93383e-10	1.000000	3.18375e-10	1.00000
rad43	2.69192e-10	1.000000	2.92124e-10	1.00000
rad40syn	1.68514e-10	1.000000	1.82869e-10	1.00000
rad33	1.11642e-10	1.000000	1.21152e-10	1.00000
rad42	1.07794e-10	1.000000	1.16977e-10	1.00000
rad40anti	1.00027e-10	1.000000	1.08548e-10	1.00000
rad47	4.75692e-11	1.000000	5.16216e-11	1.00000
rad41	2.08239e-11	1.000000	2.25978e-11	1.00000
rad14	6.10828e-12	1.000000	6.62863e-12	1.00000
rad12	1.40801e-12	1.000000	1.52796e-12	1.00000
rad31	3.04146e-13	1.000000	3.30056e-13	1.00000
rad27	1.68489e-13	1.000000	1.82842e-13	1.00000
rad5	1.32344e-13	1.000000	1.43618e-13	1.00000
rad8	9.03131e-22	1.000000	9.80067e-22	1.00000

10000.0000 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	6.76837e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.642382	0.642382	0.761421	0.761421
Benzyl+C2H2	0.156337	0.798719	0.00000	0.761421
rad22	0.126502	0.925221	0.149944	0.911365
rad23	0.0381024	0.963323	0.0451631	0.956528
rad6	0.0118111	0.975134	0.0139998	0.970528
rad45	0.00615526	0.981290	0.00729588	0.977824
rad18	0.00488483	0.986175	0.00579002	0.983614
rad20	0.00390567	0.990080	0.00462942	0.988243
rad21	0.00293600	0.993016	0.00348007	0.991723
rad11	0.00210482	0.995121	0.00249486	0.994218
PAH9+H	0.00164061	0.996762	0.00194462	0.996163
rad38	0.000774212	0.997536	0.000917679	0.997080
rad36	0.000429838	0.997966	0.000509490	0.997590
Ph+Allene	0.000342415	0.998308	0.000405868	0.997996
rad46	0.000252505	0.998561	0.000299297	0.998295
PhCH2CCH+H	0.000251124	0.998812	0.000297659	0.998593
rad35	0.000245551	0.999057	0.000291054	0.998884
PAH7+H	0.000234000	0.999291	0.000277362	0.999161
rad50	0.000219729	0.999511	0.000260446	0.999422
PhCHCCH2+H	0.000193508	0.999705	0.000229367	0.999651
rad39	9.72580e-05	0.999802	0.000115281	0.999766
rad51	6.34520e-05	0.999865	7.52102e-05	0.999841
PhCCH+CH3	2.60434e-05	0.999891	3.08695e-05	0.999872
rad30	2.37431e-05	0.999915	2.81429e-05	0.999900
rad52	1.89327e-05	0.999934	2.24411e-05	0.999923
rad19anti	9.67015e-06	0.999944	1.14621e-05	0.999934
rad7	9.52147e-06	0.999953	1.12859e-05	0.999946
rad9	8.50827e-06	0.999962	1.00849e-05	0.999956
Ph+MeAc	8.28822e-06	0.999970	9.82410e-06	0.999966
PAH3+H	7.18504e-06	0.999977	8.51648e-06	0.999974
PAH10+CH3	4.44473e-06	0.999982	5.26838e-06	0.999979
PhCCCH3+H	2.33301e-06	0.999984	2.76533e-06	0.999982

PAH1+H	2.22593e-06	0.999986	2.63841e-06	0.999985
rad71	2.06785e-06	0.999988	2.45103e-06	0.999987
rad37	1.95298e-06	0.999990	2.31488e-06	0.999990
rad65	1.67871e-06	0.999992	1.98979e-06	0.999992
rad73	1.50694e-06	0.999993	1.78619e-06	0.999993
rad28	1.02424e-06	0.999994	1.21405e-06	0.999995
rad24	8.53849e-07	0.999995	1.01207e-06	0.999996
rad59	6.83988e-07	0.999996	8.10737e-07	0.999996
rad60syn	6.27839e-07	0.999997	7.44183e-07	0.999997
rad67	5.72738e-07	0.999997	6.78870e-07	0.999998
rad19syn	4.86847e-07	0.999998	5.77064e-07	0.999998
rad60anti	3.81966e-07	0.999998	4.52747e-07	0.999999
PhcycC3H3_A+H	3.09393e-07	0.999998	3.66726e-07	0.999999
rad70	2.78437e-07	0.999999	3.30034e-07	1.000000
rad54	1.97000e-07	0.999999	2.33505e-07	1.000000
rad2	1.28200e-07	0.999999	1.51956e-07	1.000000
rad13	9.77730e-08	0.999999	1.15891e-07	1.000000
rad58	7.81540e-08	0.999999	9.26366e-08	1.000000
rad34	7.63660e-08	0.999999	9.05172e-08	1.000000
rad72	6.70555e-08	0.999999	7.94814e-08	1.000000
rad3	6.08068e-08	0.999999	7.20748e-08	1.000000
rad25	5.80055e-08	0.999999	6.87544e-08	1.000000
rad64	4.21279e-08	0.999999	4.99345e-08	1.000000
rad4	4.02477e-08	0.999999	4.77059e-08	1.000000
PAH8+H	2.41831e-08	0.999999	2.86644e-08	1.000000
rad1	2.25420e-08	0.999999	2.67193e-08	1.000000
rad62	1.59306e-08	1.000000	1.88826e-08	1.000000
rad55	1.47140e-08	1.000000	1.74406e-08	1.000000
rad15	1.22012e-08	1.000000	1.44622e-08	1.000000
rad61	9.54092e-09	1.000000	1.13089e-08	1.000000
rad10	7.60763e-09	1.000000	9.01738e-09	1.000000
rad26	7.43910e-09	1.000000	8.81763e-09	1.000000
rad68syn	6.93135e-09	1.000000	8.21579e-09	1.000000
rad56	4.72036e-09	1.000000	5.59508e-09	1.000000
rad68anti	4.50165e-09	1.000000	5.33584e-09	1.000000
rad53	4.35719e-09	1.000000	5.16461e-09	1.000000
rad43	3.33229e-09	1.000000	3.94979e-09	1.000000
rad40syn	2.77802e-09	1.000000	3.29281e-09	1.000000
rad47	2.74937e-09	1.000000	3.25885e-09	1.000000
rad40anti	1.67849e-09	1.000000	1.98953e-09	1.000000
rad42	1.56342e-09	1.000000	1.85314e-09	1.000000
rad33	5.15798e-10	1.000000	6.11380e-10	1.000000
rad41	3.04319e-10	1.000000	3.60711e-10	1.000000
rad12	3.08685e-11	1.000000	3.65886e-11	1.000000
rad14	1.80301e-11	1.000000	2.13712e-11	1.000000
rad31	2.62096e-12	1.000000	3.10665e-12	1.000000
rad27	4.90794e-13	1.000000	5.81742e-13	1.000000
rad5	3.63164e-13	1.000000	4.30461e-13	1.000000
rad8	6.48817e-18	1.000000	7.69048e-18	1.000000

10000.0000 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.12228e-16 (1.00)	2.32618e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.630903	0.630903	0.846819	0.846819
Benzyl+C2H2	0.254973	0.885876	0.000000	0.846819
rad22	0.0534445	0.939321	0.0717350	0.918554
rad23	0.0249807	0.964301	0.0335299	0.952084
rad6	0.0161354	0.980437	0.0216575	0.973741
PAH9+H	0.00299043	0.983427	0.00401386	0.977755
rad45	0.00295131	0.986378	0.00396134	0.981717
rad20	0.00277022	0.989149	0.00371829	0.985435
rad21	0.00214445	0.991293	0.00287836	0.988313
rad18	0.00174526	0.993038	0.00234254	0.990656
rad38	0.00143598	0.994474	0.00192742	0.992583
rad11	0.00112525	0.995599	0.00151035	0.994094
Ph+Allene	0.000660397	0.996260	0.000886407	0.994980
PhCH2CCH+H	0.000512598	0.996772	0.000688027	0.995668
PAH7+H	0.000502792	0.997275	0.000674864	0.996343
rad46	0.000495602	0.997771	0.000665213	0.997008
rad50	0.000489360	0.998260	0.000656835	0.997665
rad35	0.000431885	0.998692	0.000579691	0.998245
PhCHCCH2+H	0.000409102	0.999101	0.000549111	0.998794
rad36	0.000236104	0.999337	0.000316906	0.999111
rad39	0.000222134	0.999559	0.000298156	0.999409
rad51	0.000150390	0.999710	0.000201858	0.999611

PhCCH+CH3	5.67914e-05	0.999767	7.62274e-05	0.999687
rad30	4.63850e-05	0.999813	6.22595e-05	0.999749
rad52	4.34912e-05	0.999857	5.83753e-05	0.999807
rad19anti	2.13338e-05	0.999878	2.86350e-05	0.999836
Ph+MeAc	1.80514e-05	0.999896	2.42291e-05	0.999860
rad9	1.64116e-05	0.999912	2.20283e-05	0.999882
PAH3+H	1.62314e-05	0.999929	2.17863e-05	0.999904
rad7	1.51853e-05	0.999944	2.03822e-05	0.999925
PAH10+CH3	1.08313e-05	0.999955	1.45382e-05	0.999939
rad71	5.56316e-06	0.999960	7.46707e-06	0.999947
PAH1+H	5.54501e-06	0.999966	7.44270e-06	0.999954
PhCCCH3+H	5.38589e-06	0.999971	7.22912e-06	0.999961
rad37	4.34634e-06	0.999975	5.83380e-06	0.999967
rad28	4.13336e-06	0.999980	5.54794e-06	0.999973
rad73	3.96686e-06	0.999984	5.32445e-06	0.999978
rad65	3.94154e-06	0.999987	5.29047e-06	0.999983
rad24	2.84045e-06	0.999990	3.81254e-06	0.999987
rad59	1.52832e-06	0.999992	2.05136e-06	0.999989
rad60syn	1.41481e-06	0.999993	1.89900e-06	0.999991
rad67	1.37834e-06	0.999995	1.85005e-06	0.999993
rad19syn	9.87960e-07	0.999996	1.32607e-06	0.999994
rad60anti	8.59040e-07	0.999996	1.15303e-06	0.999995
rad70	6.86179e-07	0.999997	9.21012e-07	0.999996
PhcycC3H3_A+H	6.72561e-07	0.999998	9.02735e-07	0.999997
rad54	4.01430e-07	0.999998	5.38813e-07	0.999998
rad13	2.63442e-07	0.999998	3.53601e-07	0.999998
rad2	2.59065e-07	0.999999	3.47726e-07	0.999998
rad34	1.92237e-07	0.999999	2.58028e-07	0.999999
rad72	1.87482e-07	0.999999	2.51645e-07	0.999999
rad58	1.86268e-07	0.999999	2.50015e-07	0.999999
rad3	1.07661e-07	0.999999	1.44506e-07	0.999999
rad64	1.07092e-07	1.000000	1.43743e-07	0.999999
rad4	7.53689e-08	1.000000	1.01163e-07	1.000000
PAH8+H	6.62492e-08	1.000000	8.89220e-08	1.000000
rad25	5.93592e-08	1.000000	7.96740e-08	1.000000
rad1	5.03717e-08	1.000000	6.76106e-08	1.000000
rad62	4.06178e-08	1.000000	5.45186e-08	1.000000
rad55	3.08718e-08	1.000000	4.14371e-08	1.000000
rad61	2.49156e-08	1.000000	3.34425e-08	1.000000
rad26	2.06802e-08	1.000000	2.77576e-08	1.000000
rad68syn	1.84048e-08	1.000000	2.47036e-08	1.000000
rad10	1.48015e-08	1.000000	1.98670e-08	1.000000
rad47	1.41040e-08	1.000000	1.89309e-08	1.000000
rad15	1.24192e-08	1.000000	1.66695e-08	1.000000
rad68anti	1.19459e-08	1.000000	1.60342e-08	1.000000
rad56	1.13586e-08	1.000000	1.52459e-08	1.000000
rad53	1.00869e-08	1.000000	1.35390e-08	1.000000
rad43	8.53596e-09	1.000000	1.14573e-08	1.000000
rad40syn	7.52178e-09	1.000000	1.00960e-08	1.000000
rad40anti	4.56784e-09	1.000000	6.13110e-09	1.000000
rad42	4.12276e-09	1.000000	5.53370e-09	1.000000
rad33	3.15932e-09	1.000000	4.24054e-09	1.000000
rad41	8.07781e-10	1.000000	1.08423e-09	1.000000
rad12	5.74550e-10	1.000000	7.71181e-10	1.000000
rad14	5.31808e-11	1.000000	7.13811e-11	1.000000
rad31	1.02929e-11	1.000000	1.38155e-11	1.000000
rad27	1.77070e-12	1.000000	2.37669e-12	1.000000
rad5	8.42826e-13	1.000000	1.13127e-12	1.000000
rad8	2.09987e-14	1.000000	2.81851e-14	1.000000

10000.0000 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.21769e-16 (1.00)	5.89196e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.568496	0.568496	0.889386	0.889386
Benzyl+C2H2	0.360799	0.929295	0.00000	0.889386
rad22	0.0198189	0.949114	0.0310057	0.920392
rad6	0.0182668	0.967381	0.0285775	0.948969
rad23	0.0141264	0.981507	0.0221002	0.971069
PAH9+H	0.00348050	0.984988	0.00544509	0.976514
rad20	0.00238032	0.987368	0.00372390	0.980238
rad45	0.00198581	0.989354	0.00310670	0.983345
rad21	0.00177118	0.991125	0.00277093	0.986116
rad38	0.00168186	0.992807	0.00263119	0.988747
Ph+Allene	0.000975043	0.993782	0.00152541	0.990273
rad18	0.000768428	0.994550	0.00120217	0.991475

PhCH2CCH+H	0.000728828	0.995279	0.00114022	0.992615
PhCHCCH2+H	0.000646084	0.995925	0.00101077	0.993626
PAH7+H	0.000628247	0.996553	0.000982864	0.994609
rad50	0.000612724	0.997166	0.000958579	0.995567
rad11	0.000608451	0.997775	0.000951894	0.996519
rad46	0.000592354	0.998367	0.000926711	0.997446
rad35	0.000496533	0.998863	0.000776802	0.998223
rad39	0.000282452	0.999146	0.000441884	0.998665
rad51	0.000192756	0.999339	0.000301558	0.998966
rad36	0.000173299	0.999512	0.000271118	0.999237
PhCCH+CH3	0.000142589	0.999655	0.000223075	0.999460
rad30	7.28611e-05	0.999727	0.000113988	0.999574
rad52	5.50786e-05	0.999782	8.61679e-05	0.999660
Ph+MeAc	3.34445e-05	0.999816	5.23223e-05	0.999713
rad19anti	3.12416e-05	0.999847	4.88760e-05	0.999762
rad9	2.55550e-05	0.999873	3.99797e-05	0.999802
PAH3+H	2.14598e-05	0.999894	3.35728e-05	0.999835
rad7	2.13568e-05	0.999916	3.34117e-05	0.999869
PAH10+CH3	1.40454e-05	0.999930	2.19733e-05	0.999891
rad28	1.07238e-05	0.999940	1.67770e-05	0.999907
PhCCCH3+H	1.00909e-05	0.999950	1.57868e-05	0.999923
rad71	7.50183e-06	0.999958	1.17363e-05	0.999935
PAH1+H	7.24966e-06	0.999965	1.13418e-05	0.999946
rad37	5.45131e-06	0.999971	8.52833e-06	0.999955
rad73	5.30089e-06	0.999976	8.29300e-06	0.999963
rad65	5.03260e-06	0.999981	7.87327e-06	0.999971
rad24	4.60465e-06	0.999986	7.20376e-06	0.999978
rad60syn	2.14730e-06	0.999988	3.35936e-06	0.999981
rad59	2.05956e-06	0.999990	3.22209e-06	0.999985
rad67	1.91336e-06	0.999992	2.99336e-06	0.999988
rad60anti	1.28542e-06	0.999993	2.01097e-06	0.999990
rad19syn	1.25343e-06	0.999994	1.96094e-06	0.999992
rad70	8.96581e-07	0.999995	1.40266e-06	0.999993
rad13	8.55784e-07	0.999996	1.33883e-06	0.999994
PhcycC3H3_A+H	8.44041e-07	0.999997	1.32046e-06	0.999996
rad54	5.02961e-07	0.999997	7.86859e-07	0.999996
rad2	4.50213e-07	0.999998	7.04337e-07	0.999997
rad72	2.57004e-07	0.999998	4.02071e-07	0.999998
rad34	2.52853e-07	0.999998	3.95577e-07	0.999998
rad58	2.40591e-07	0.999999	3.76393e-07	0.999998
rad3	1.77036e-07	0.999999	2.76965e-07	0.999999
rad64	1.41092e-07	0.999999	2.20733e-07	0.999999
rad4	1.31301e-07	0.999999	2.05415e-07	0.999999
rad1	9.73996e-08	0.999999	1.52377e-07	0.999999
PAH8+H	9.00757e-08	0.999999	1.40919e-07	0.999999
rad25	6.91527e-08	0.999999	1.08186e-07	0.999999
rad62	5.45701e-08	0.999999	8.53724e-08	1.000000
rad26	5.23382e-08	0.999999	8.18808e-08	1.000000
rad55	3.85406e-08	0.999999	6.02949e-08	1.000000
rad61	3.32071e-08	0.999999	5.19509e-08	1.000000
rad10	2.91485e-08	0.999999	4.56016e-08	1.000000
rad68syn	2.46971e-08	0.999999	3.86375e-08	1.000000
rad33	2.25400e-08	0.999999	3.52627e-08	1.000000
rad47	2.18960e-08	0.999999	3.42552e-08	1.000000
rad68anti	1.60261e-08	1.000000	2.50720e-08	1.000000
rad56	1.46574e-08	1.000000	2.29308e-08	1.000000
rad53	1.28443e-08	1.000000	2.00942e-08	1.000000
rad15	1.28325e-08	1.000000	2.00759e-08	1.000000
rad43	1.19853e-08	1.000000	1.87505e-08	1.000000
rad40syn	1.01796e-08	1.000000	1.59255e-08	1.000000
rad40anti	6.19696e-09	1.000000	9.69486e-09	1.000000
rad42	5.57475e-09	1.000000	8.72144e-09	1.000000
rad12	4.66719e-09	1.000000	7.30161e-09	1.000000
rad41	1.13301e-09	1.000000	1.77255e-09	1.000000
rad14	2.13209e-10	1.000000	3.33555e-10	1.000000
rad31	3.00879e-11	1.000000	4.70712e-11	1.000000
rad27	1.09226e-11	1.000000	1.70880e-11	1.000000
rad8	9.13754e-12	1.000000	1.42953e-11	1.000000
rad5	1.66981e-12	1.000000	2.61233e-12	1.000000

10000.0000 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	2.23691e-15 (1.00)	1.20247e-15 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.487899	0.487899	0.907621	0.907621
Benzy1+C2H2	0.462442	0.950341	0.00000	0.907621

rad6	0.0174541	0.967795	0.0324693	0.940090
rad23	0.00727997	0.975075	0.0135427	0.953633
rad22	0.00707511	0.982150	0.0131616	0.966795
PAH9+H	0.00328153	0.985432	0.00610452	0.972899
rad20	0.00190435	0.987336	0.00354259	0.976442
Ph+Allene	0.00161311	0.988949	0.00300081	0.979443
rad38	0.00158769	0.990537	0.00295353	0.982396
rad45	0.00154438	0.992081	0.00287296	0.985269
rad21	0.00128772	0.993369	0.00239551	0.987665
PhCH2CCH+H	0.00106676	0.994436	0.00198445	0.989649
PhCHCCH2+H	0.00103773	0.995473	0.00193045	0.991579
PAH7+H	0.000631125	0.996105	0.00117406	0.992753
rad50	0.000590960	0.996696	0.00109934	0.993853
rad46	0.000562525	0.997258	0.00104645	0.994899
rad35	0.000467241	0.997725	0.000869192	0.995768
rad18	0.000445715	0.998171	0.000829148	0.996598
rad11	0.000417272	0.998588	0.000776236	0.997374
PhCCH+CH3	0.000354658	0.998943	0.000659759	0.998034
rad39	0.000279229	0.999222	0.000519440	0.998553
rad51	0.000187471	0.999410	0.000348746	0.998902
rad36	0.000138891	0.999549	0.000258374	0.999160
rad30	0.000101935	0.999650	0.000189626	0.999350
Ph+MeAc	6.43636e-05	0.999715	0.000119733	0.999470
rad52	5.33363e-05	0.999768	9.92197e-05	0.999569
rad19anti	4.29929e-05	0.999811	7.99783e-05	0.999649
rad7	3.08850e-05	0.999842	5.74542e-05	0.999706
rad9	3.04445e-05	0.999872	5.66347e-05	0.999763
PAH3+H	2.41836e-05	0.999897	4.49878e-05	0.999808
PhCCCH3+H	1.84184e-05	0.999915	3.42631e-05	0.999842
rad28	1.73914e-05	0.999932	3.23527e-05	0.999874
PAH10+CH3	1.38122e-05	0.999946	2.56944e-05	0.999900
rad71	7.43590e-06	0.999954	1.38327e-05	0.999914
PAH1+H	7.11970e-06	0.999961	1.32445e-05	0.999927
rad37	5.33412e-06	0.999966	9.92288e-06	0.999937
rad73	5.23610e-06	0.999971	9.74054e-06	0.999947
rad65	4.88777e-06	0.999976	9.09255e-06	0.999956
rad24	4.42232e-06	0.999981	8.22669e-06	0.999964
rad13	3.03971e-06	0.999984	5.65466e-06	0.999970
rad60syn	2.99604e-06	0.999987	5.57343e-06	0.999975
rad59	2.43806e-06	0.999989	4.53543e-06	0.999980
rad67	2.40056e-06	0.999992	4.46569e-06	0.999984
rad60anti	1.76763e-06	0.999993	3.28826e-06	0.999988
rad19syn	1.52053e-06	0.999995	2.82859e-06	0.999991
rad70	8.93526e-07	0.999996	1.66220e-06	0.999992
PhcycC3H3_A+H	8.87995e-07	0.999997	1.65191e-06	0.999994
rad2	6.75021e-07	0.999997	1.25572e-06	0.999995
rad54	5.84644e-07	0.999998	1.08759e-06	0.999996
rad72	2.56367e-07	0.999998	4.76910e-07	0.999997
rad3	2.53489e-07	0.999998	4.71557e-07	0.999997
rad34	2.50829e-07	0.999999	4.66608e-07	0.999998
rad58	2.42221e-07	0.999999	4.50595e-07	0.999998
rad4	1.94463e-07	0.999999	3.61752e-07	0.999998
rad1	1.59171e-07	0.999999	2.96099e-07	0.999999
rad64	1.38778e-07	0.999999	2.58163e-07	0.999999
rad33	1.12777e-07	1.000000	2.09796e-07	0.999999
rad25	9.58767e-08	1.000000	1.78356e-07	0.999999
rad26	9.25117e-08	1.000000	1.72096e-07	1.000000
PAH8+H	8.98069e-08	1.000000	1.67065e-07	1.000000
rad10	6.12920e-08	1.000000	1.14019e-07	1.000000
rad62	5.63358e-08	1.000000	1.04799e-07	1.000000
rad55	4.22471e-08	1.000000	7.85908e-08	1.000000
rad61	3.29393e-08	1.000000	6.12759e-08	1.000000
rad68syn	2.45087e-08	1.000000	4.55927e-08	1.000000
rad47	2.16706e-08	1.000000	4.03130e-08	1.000000
rad12	1.71950e-08	1.000000	3.19873e-08	1.000000
rad68anti	1.59028e-08	1.000000	2.95835e-08	1.000000
rad15	1.57243e-08	1.000000	2.92513e-08	1.000000
rad56	1.45875e-08	1.000000	2.71367e-08	1.000000
rad43	1.36304e-08	1.000000	2.53562e-08	1.000000
rad53	1.28997e-08	1.000000	2.39970e-08	1.000000
rad40syn	1.01404e-08	1.000000	1.88637e-08	1.000000
rad40anti	6.18310e-09	1.000000	1.15022e-08	1.000000
rad42	5.64082e-09	1.000000	1.04934e-08	1.000000
rad41	1.25587e-09	1.000000	2.33625e-09	1.000000
rad14	9.01651e-10	1.000000	1.67731e-09	1.000000
rad8	4.43966e-10	1.000000	8.25895e-10	1.000000
rad27	8.16943e-11	1.000000	1.51973e-10	1.000000
rad31	6.56762e-11	1.000000	1.22175e-10	1.000000
rad5	2.80007e-12	1.000000	5.20887e-12	1.000000

10000.0000 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.10168e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.552689	0.552689	0.00000	0.00000
Indene+H	0.409143	0.961832	0.914672	0.914672
rad6	0.0138548	0.975687	0.0309736	0.945646
rad23	0.00368272	0.979370	0.00823301	0.953879
Ph+Allene	0.00289278	0.982262	0.00646705	0.960346
PAH9+H	0.00279285	0.985055	0.00624365	0.966589
rad22	0.00257024	0.987625	0.00574597	0.972335
PhCH2CCH+H	0.00173635	0.989362	0.00388174	0.976217
PhCHCCH2+H	0.00166830	0.991030	0.00372963	0.979947
rad38	0.00134899	0.992379	0.00301577	0.982962
rad45	0.00121357	0.993593	0.00271304	0.985675
rad20	0.00120982	0.994802	0.00270464	0.988380
rad21	0.000742832	0.995545	0.00166066	0.990041
PhCCH+CH3	0.000693008	0.996238	0.00154928	0.991590
PAH7+H	0.000598647	0.996837	0.00133832	0.992928
rad50	0.000502916	0.997340	0.00112431	0.994053
rad46	0.000477652	0.997817	0.00106783	0.995121
rad35	0.000399412	0.998217	0.000892919	0.996013
rad11	0.000367862	0.998585	0.000822385	0.996836
rad18	0.000312017	0.998897	0.000697540	0.997533
rad39	0.000250351	0.999147	0.000559680	0.998093
rad51	0.000159907	0.999307	0.000357486	0.998451
rad30	0.000132709	0.999440	0.000296681	0.998747
Ph+MeAc	0.000111592	0.999551	0.000249472	0.998997
rad36	0.000110413	0.999662	0.000246837	0.999244
rad19anti	6.00984e-05	0.999722	0.000134355	0.999378
rad7	4.72811e-05	0.999769	0.000105701	0.999484
rad52	4.54363e-05	0.999815	0.000101576	0.999585
rad9	3.77324e-05	0.999852	8.43538e-05	0.999669
PhCCCH3+H	2.90724e-05	0.999881	6.49937e-05	0.999734
PAH3+H	2.87740e-05	0.999910	6.43265e-05	0.999799
rad28	1.90321e-05	0.999929	4.25478e-05	0.999841
PAH10+CH3	1.20200e-05	0.999941	2.68717e-05	0.999868
rad13	8.28225e-06	0.999949	1.85156e-05	0.999887
rad71	6.38289e-06	0.999956	1.42695e-05	0.999901
PAH1+H	6.14942e-06	0.999962	1.37475e-05	0.999915
rad37	4.71150e-06	0.999967	1.05329e-05	0.999925
rad73	4.48917e-06	0.999971	1.00359e-05	0.999935
rad60syn	4.23577e-06	0.999975	9.46942e-06	0.999945
rad65	4.16798e-06	0.999980	9.31787e-06	0.999954
rad24	3.51749e-06	0.999983	7.86364e-06	0.999962
rad67	3.11031e-06	0.999986	6.95335e-06	0.999969
rad59	3.07977e-06	0.999989	6.88508e-06	0.999976
rad60anti	2.48455e-06	0.999992	5.55442e-06	0.999981
rad19syn	2.25524e-06	0.999994	5.04177e-06	0.999986
PhcycC3H3_A+H	1.02709e-06	0.999995	2.29615e-06	0.999989
rad54	8.26217e-07	0.999996	1.84708e-06	0.999991
rad70	8.15928e-07	0.999997	1.82407e-06	0.999992
rad2	8.03609e-07	0.999998	1.79653e-06	0.999994
rad3	2.86066e-07	0.999998	6.39523e-07	0.999995
rad33	2.75364e-07	0.999998	6.15599e-07	0.999995
rad58	2.36000e-07	0.999998	5.27598e-07	0.999996
rad34	2.24317e-07	0.999999	5.01479e-07	0.999996
rad4	2.22831e-07	0.999999	4.98157e-07	0.999997
rad72	2.20555e-07	0.999999	4.93069e-07	0.999997
rad1	1.96791e-07	0.999999	4.39943e-07	0.999998
rad25	1.33185e-07	0.999999	2.97747e-07	0.999998
rad10	1.30542e-07	0.999999	2.91837e-07	0.999998
rad64	1.19447e-07	1.000000	2.67034e-07	0.999999
rad26	1.15792e-07	1.000000	2.58862e-07	0.999999
PAH8+H	7.83960e-08	1.000000	1.75261e-07	0.999999
rad55	5.40542e-08	1.000000	1.20843e-07	0.999999
rad62	5.39121e-08	1.000000	1.20525e-07	0.999999
rad12	3.90026e-08	1.000000	8.71935e-08	1.000000
rad15	2.89082e-08	1.000000	6.46266e-08	1.000000
rad61	2.86505e-08	1.000000	6.40504e-08	1.000000
rad68syn	2.14307e-08	1.000000	4.79102e-08	1.000000
rad47	1.78155e-08	1.000000	3.98280e-08	1.000000
rad43	1.42400e-08	1.000000	3.18346e-08	1.000000
rad56	1.40517e-08	1.000000	3.14137e-08	1.000000
rad68anti	1.39070e-08	1.000000	3.10903e-08	1.000000
rad53	1.30350e-08	1.000000	2.91408e-08	1.000000

rad40syn	8.86681e-09	1.00000	1.98225e-08	1.000000
rad40anti	5.41210e-09	1.00000	1.20992e-08	1.000000
rad42	5.07152e-09	1.00000	1.13378e-08	1.000000
rad8	3.78117e-09	1.00000	8.45311e-09	1.000000
rad14	2.63087e-09	1.00000	5.88153e-09	1.000000
rad41	1.25872e-09	1.00000	2.81396e-09	1.000000
rad27	3.26457e-10	1.00000	7.29820e-10	1.000000
rad31	1.04137e-10	1.00000	2.32808e-10	1.000000
rad5	4.09977e-12	1.00000	9.16538e-12	1.000000

10000.0000 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.84330e-15 (1.00)	3.28943e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.628031	0.628031	0.00000	0.00000
Indene+H	0.340247	0.968278	0.914719	0.914719
rad6	0.00915141	0.977429	0.0246026	0.939322
Ph+Allene	0.00465222	0.982082	0.0125070	0.951829
PhCH2CCH+H	0.00273273	0.984814	0.00734667	0.959175
PhCHCCH2+H	0.00239500	0.987209	0.00643871	0.965614
PAH9+H	0.00225635	0.989466	0.00606597	0.971680
rad23	0.00197679	0.991442	0.00531440	0.976994
rad38	0.00108524	0.992528	0.00291756	0.979912
rad22	0.00105889	0.993587	0.00284672	0.982759
PhCCH+CH3	0.00101595	0.994603	0.00273128	0.985490
rad45	0.000931344	0.995534	0.00250382	0.987994
rad20	0.000665074	0.996199	0.00178798	0.989782
PAH7+H	0.000566039	0.996765	0.00152174	0.991303
rad50	0.000400106	0.997165	0.00107564	0.992379
rad21	0.000389406	0.997555	0.00104688	0.993426
rad46	0.000382274	0.997937	0.00102770	0.994454
rad11	0.000352224	0.998289	0.000946917	0.995401
rad35	0.000326065	0.998615	0.000876591	0.996277
rad18	0.000237321	0.998852	0.000638012	0.996915
rad39	0.000216376	0.999069	0.000581705	0.997497
rad30	0.000163784	0.999233	0.000440317	0.997937
Ph+MeAc	0.000156560	0.999389	0.000420896	0.998358
rad51	0.000127122	0.999516	0.000341754	0.998700
rad36	8.53291e-05	0.999602	0.000229398	0.998929
rad19anti	8.16184e-05	0.999683	0.000219422	0.999149
rad7	6.82177e-05	0.999751	0.000183396	0.999332
rad9	4.83423e-05	0.999800	0.000129963	0.999462
PAH3+H	3.78558e-05	0.999838	0.000101771	0.999564
PhCCCH3+H	3.63289e-05	0.999874	9.76665e-05	0.999661
rad52	3.61267e-05	0.999910	9.71230e-05	0.999759
rad28	1.53216e-05	0.999925	4.11905e-05	0.999800
rad13	1.26845e-05	0.999938	3.41010e-05	0.999834
PAH10+CH3	9.86180e-06	0.999948	2.65124e-05	0.999860
rad60syn	5.97307e-06	0.999954	1.60580e-05	0.999876
rad71	5.08074e-06	0.999959	1.36590e-05	0.999890
PAH1+H	5.01567e-06	0.999964	1.34841e-05	0.999904
rad59	4.22494e-06	0.999968	1.13583e-05	0.999915
rad37	3.99388e-06	0.999972	1.07371e-05	0.999926
rad67	3.87339e-06	0.999976	1.04132e-05	0.999936
rad19syn	3.67408e-06	0.999980	9.87737e-06	0.999946
rad73	3.57201e-06	0.999983	9.60298e-06	0.999956
rad60anti	3.51092e-06	0.999987	9.43875e-06	0.999965
rad65	3.31445e-06	0.999990	8.91056e-06	0.999974
rad24	2.72384e-06	0.999993	7.32276e-06	0.999981
PhcycC3H3_A+H	1.41799e-06	0.999994	3.81212e-06	0.999985
rad54	1.31831e-06	0.999996	3.54414e-06	0.999989
rad70	7.45941e-07	0.999996	2.00539e-06	0.999991
rad2	7.09574e-07	0.999997	1.90762e-06	0.999993
rad33	3.61778e-07	0.999997	9.72603e-07	0.999994
rad58	2.49158e-07	0.999998	6.69836e-07	0.999994
rad3	2.44609e-07	0.999998	6.57606e-07	0.999995
rad10	2.31908e-07	0.999998	6.23461e-07	0.999995
rad34	1.96654e-07	0.999998	5.28683e-07	0.999996
rad4	1.92002e-07	0.999999	5.16178e-07	0.999997
rad1	1.76642e-07	0.999999	4.74883e-07	0.999997
rad72	1.75691e-07	0.999999	4.72326e-07	0.999997
rad25	1.50360e-07	0.999999	4.04228e-07	0.999998
rad26	1.13265e-07	0.999999	3.04500e-07	0.999998
rad64	9.64422e-08	0.999999	2.59275e-07	0.999998
rad55	8.10841e-08	0.999999	2.17986e-07	0.999999
rad15	7.58563e-08	0.999999	2.03932e-07	0.999999

rad12	6.59565e-08	1.000000	1.77317e-07	0.999999
PAH8+H	6.43351e-08	1.000000	1.72958e-07	0.999999
rad62	5.23129e-08	1.000000	1.40638e-07	0.999999
rad61	2.33439e-08	1.000000	6.27576e-08	0.999999
rad68syn	1.77559e-08	1.000000	4.77350e-08	0.999999
rad53	1.49786e-08	1.000000	4.02684e-08	0.999999
rad56	1.47346e-08	1.000000	3.96124e-08	1.000000
rad43	1.37457e-08	1.000000	3.69538e-08	1.000000
rad47	1.34420e-08	1.000000	3.61375e-08	1.000000
rad68anti	1.15260e-08	1.000000	3.09865e-08	1.000000
rad8	1.15077e-08	1.000000	3.09373e-08	1.000000
rad40syn	7.30369e-09	1.000000	1.96352e-08	1.000000
rad40anti	4.45703e-09	1.000000	1.19822e-08	1.000000
rad42	4.41482e-09	1.000000	1.18688e-08	1.000000
rad14	4.17729e-09	1.000000	1.12302e-08	1.000000
rad41	1.15568e-09	1.000000	3.10691e-09	1.000000
rad27	5.57392e-10	1.000000	1.49849e-09	1.000000
rad31	1.21607e-10	1.000000	3.26926e-10	1.000000
rad5	5.47795e-12	1.000000	1.47269e-11	1.000000

10000.0000 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.52810e-14 (1.00)	4.75870e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.688587	0.688587	0.00000	0.00000
Indene+H	0.282800	0.971387	0.908119	0.908119
Ph+Allene	0.00632913	0.977716	0.0203239	0.928443
rad6	0.00550372	0.983220	0.0176734	0.946116
PhCH2CCH+H	0.00393335	0.987153	0.0126307	0.958747
PhCHCCH2+H	0.00299459	0.990148	0.00961613	0.968363
PAH9+H	0.00178122	0.991929	0.00571981	0.974083
rad23	0.00121297	0.993142	0.00389505	0.977978
PhCCH+CH3	0.00116138	0.994303	0.00372940	0.981707
rad38	0.000850347	0.995154	0.00273061	0.984438
rad45	0.000694455	0.995848	0.00223001	0.986668
rad22	0.000548909	0.996397	0.00176264	0.988431
PAH7+H	0.000525607	0.996923	0.00168781	0.990118
rad20	0.000371249	0.997294	0.00119214	0.991311
rad50	0.000305464	0.997599	0.000980897	0.992291
rad46	0.000296467	0.997896	0.000952007	0.993244
rad11	0.000294527	0.998190	0.000945776	0.994189
rad35	0.000262125	0.998453	0.000841728	0.995031
rad21	0.000214819	0.998667	0.000689821	0.995721
rad30	0.000194332	0.998862	0.000624032	0.996345
rad39	0.000181666	0.999043	0.000583361	0.996928
Ph+MeAc	0.000178336	0.999222	0.000572666	0.997501
rad18	0.000169367	0.999391	0.000543868	0.998045
rad19anti	0.000107241	0.999498	0.000344370	0.998389
rad51	9.66483e-05	0.999595	0.000310354	0.998699
rad7	7.94627e-05	0.999674	0.000255168	0.998955
rad36	6.40014e-05	0.999738	0.000205519	0.999160
rad9	5.79097e-05	0.999796	0.000185958	0.999346
PAH3+H	5.39194e-05	0.999850	0.000173144	0.999519
PhCCCH3+H	3.64908e-05	0.999887	0.000117178	0.999636
rad52	2.75133e-05	0.999914	8.83498e-05	0.999725
rad13	1.15547e-05	0.999926	3.71041e-05	0.999762
rad28	1.04257e-05	0.999936	3.34786e-05	0.999795
rad60syn	8.27987e-06	0.999944	2.65881e-05	0.999822
PAH10+CH3	7.83376e-06	0.999952	2.51555e-05	0.999847
rad59	6.09023e-06	0.999958	1.95568e-05	0.999867
rad19syn	5.61734e-06	0.999964	1.80382e-05	0.999885
rad60anti	4.89984e-06	0.999969	1.57342e-05	0.999900
rad67	4.54441e-06	0.999973	1.45929e-05	0.999915
PAH1+H	4.00146e-06	0.999977	1.28494e-05	0.999928
rad71	3.85290e-06	0.999981	1.23723e-05	0.999940
rad37	3.32951e-06	0.999985	1.06916e-05	0.999951
rad73	2.70897e-06	0.999987	8.69895e-06	0.999960
rad65	2.52218e-06	0.999990	8.09915e-06	0.999968
PhcycC3H3_A+H	2.15311e-06	0.999992	6.91400e-06	0.999975
rad24	2.09437e-06	0.999994	6.72537e-06	0.999981
rad54	2.00308e-06	0.999996	6.43221e-06	0.999988
rad70	7.14351e-07	0.999997	2.29390e-06	0.999990
rad2	4.72997e-07	0.999997	1.51887e-06	0.999992
rad33	3.28652e-07	0.999998	1.05536e-06	0.999993
rad58	3.09033e-07	0.999998	9.92358e-07	0.999994
rad10	2.85658e-07	0.999998	9.17295e-07	0.999995

rad15	2.25990e-07	0.999998	7.25693e-07	0.999995
rad34	1.77805e-07	0.999999	5.70963e-07	0.999996
rad3	1.62816e-07	0.999999	5.22828e-07	0.999996
rad25	1.34495e-07	0.999999	4.31886e-07	0.999997
rad72	1.33241e-07	0.999999	4.27859e-07	0.999997
rad4	1.28425e-07	0.999999	4.12395e-07	0.999998
rad55	1.22394e-07	0.999999	3.93028e-07	0.999998
rad1	1.18865e-07	0.999999	3.81697e-07	0.999998
rad26	9.95434e-08	1.000000	3.19651e-07	0.999999
rad12	9.35967e-08	1.000000	3.00555e-07	0.999999
rad64	7.55233e-08	1.000000	2.42518e-07	0.999999
rad62	5.22115e-08	1.000000	1.67660e-07	1.000000
PAH8+H	5.10733e-08	1.000000	1.64005e-07	1.000000
rad8	2.11179e-08	1.000000	6.78132e-08	1.000000
rad53	1.95642e-08	1.000000	6.28239e-08	1.000000
rad61	1.82522e-08	1.000000	5.86111e-08	1.000000
rad56	1.74159e-08	1.000000	5.59254e-08	1.000000
rad68syn	1.44743e-08	1.000000	4.64793e-08	1.000000
rad43	1.23874e-08	1.000000	3.97781e-08	1.000000
rad47	9.67141e-09	1.000000	3.10565e-08	1.000000
rad68anti	9.40273e-09	1.000000	3.01937e-08	1.000000
rad40syn	5.84671e-09	1.000000	1.87748e-08	1.000000
rad14	3.95709e-09	1.000000	1.27069e-08	1.000000
rad42	3.90625e-09	1.000000	1.25436e-08	1.000000
rad40anti	3.55694e-09	1.000000	1.14219e-08	1.000000
rad41	9.87948e-10	1.000000	3.17247e-09	1.000000
rad27	5.24552e-10	1.000000	1.68443e-09	1.000000
rad31	1.10306e-10	1.000000	3.54210e-10	1.000000
rad5	7.11098e-12	1.000000	2.28345e-11	1.000000

10000.0000 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.46691e-14 (1.00)	6.50343e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.736374	0.736374	0.00000	0.00000
Indene+H	0.235975	0.972349	0.895110	0.895110
Ph+Allene	0.00756558	0.979915	0.0286981	0.923808
PhCH2CCH+H	0.00528649	0.985201	0.0200530	0.943861
rad6	0.00347675	0.988678	0.0131882	0.957049
PhCHCCH2+H	0.00340588	0.992084	0.0129193	0.969969
PAH9+H	0.00141129	0.993495	0.00535336	0.975322
PhCCH+CH3	0.00113019	0.994625	0.00428709	0.979609
rad23	0.000889958	0.995515	0.00337583	0.982985
rad38	0.000665927	0.996181	0.00252602	0.985511
rad45	0.000504285	0.996685	0.00191288	0.987424
PAH7+H	0.000475752	0.997161	0.00180464	0.989228
rad22	0.000356653	0.997518	0.00135287	0.990581
rad50	0.000228531	0.997746	0.000866873	0.991448
rad46	0.000228478	0.997975	0.000866672	0.992315
rad30	0.000223591	0.998198	0.000848136	0.993163
rad20	0.000220315	0.998419	0.000835708	0.993999
rad35	0.000213580	0.998632	0.000810161	0.994809
rad11	0.000202647	0.998835	0.000768688	0.995578
Ph+MeAc	0.000177619	0.999013	0.000673753	0.996251
rad39	0.000148735	0.999161	0.000564188	0.996815
rad19anti	0.000139202	0.999300	0.000528027	0.997343
rad21	0.000126900	0.999427	0.000481362	0.997825
rad18	0.000104855	0.999532	0.000397741	0.998223
PAH3+H	7.91480e-05	0.999611	0.000300228	0.998523
rad51	7.15798e-05	0.999683	0.000271520	0.998794
rad7	6.93985e-05	0.999752	0.000263246	0.999058
rad9	6.37224e-05	0.999816	0.000241715	0.999299
rad36	4.67386e-05	0.999863	0.000177291	0.999477
PhCCCH3+H	3.22622e-05	0.999895	0.000122378	0.999599
rad52	2.04677e-05	0.999916	7.76391e-05	0.999677
rad60syn	1.11630e-05	0.999927	4.23439e-05	0.999719
rad59	8.83709e-06	0.999936	3.35213e-05	0.999752
rad13	8.08825e-06	0.999944	3.06807e-05	0.999783
rad19syn	7.74309e-06	0.999951	2.93714e-05	0.999813
rad28	7.10383e-06	0.999958	2.69466e-05	0.999839
rad60anti	6.66366e-06	0.999965	2.52769e-05	0.999865
PAH10+CH3	6.19381e-06	0.999971	2.34946e-05	0.999888
rad67	5.30236e-06	0.999977	2.01131e-05	0.999908
PhcycC3H3_A+H	3.22097e-06	0.999980	1.22179e-05	0.999921
PAH1+H	3.21659e-06	0.999983	1.22013e-05	0.999933
rad71	2.82633e-06	0.999986	1.07210e-05	0.999944

rad37	2.80106e-06	0.999989	1.06251e-05	0.999954
rad54	2.77114e-06	0.999991	1.05116e-05	0.999965
rad73	1.98878e-06	0.999993	7.54393e-06	0.999972
rad65	1.87245e-06	0.999995	7.10265e-06	0.999979
rad24	1.60439e-06	0.999997	6.08585e-06	0.999985
rad70	7.30849e-07	0.999998	2.77229e-06	0.999988
rad15	5.63695e-07	0.999998	2.13823e-06	0.999990
rad58	4.50479e-07	0.999999	1.70878e-06	0.999992
rad2	2.62128e-07	0.999999	9.94315e-07	0.999993
rad33	2.46467e-07	0.999999	9.34908e-07	0.999994
rad10	2.38180e-07	0.999999	9.03476e-07	0.999995
rad55	1.73409e-07	1.000000	6.57781e-07	0.999995
rad34	1.72386e-07	1.000000	6.53904e-07	0.999996
rad12	1.19055e-07	1.000000	4.51606e-07	0.999997
rad25	1.07563e-07	1.000000	4.08011e-07	0.999997
rad72	9.76555e-08	1.000000	3.70431e-07	0.999997
rad3	9.29052e-08	1.000000	3.52412e-07	0.999998
rad26	8.98865e-08	1.000000	3.40962e-07	0.999998
rad4	7.35492e-08	1.000000	2.78990e-07	0.999998
rad1	6.63581e-08	1.000000	2.51712e-07	0.999999
rad64	5.91066e-08	1.000000	2.24206e-07	0.999999
rad62	5.29624e-08	1.000000	2.00899e-07	0.999999
PAH8+H	4.08228e-08	1.000000	1.54851e-07	0.999999
rad8	3.02560e-08	1.000000	1.14768e-07	0.999999
rad53	2.77265e-08	1.000000	1.05173e-07	0.999999
rad56	2.34931e-08	1.000000	8.91153e-08	0.999999
rad61	1.39978e-08	1.000000	5.30969e-08	1.000000
rad68syn	1.22036e-08	1.000000	4.62913e-08	1.000000
rad43	1.10082e-08	1.000000	4.17566e-08	1.000000
rad68anti	7.93813e-09	1.000000	3.01113e-08	1.000000
rad47	6.78129e-09	1.000000	2.57231e-08	1.000000
rad40syn	4.75373e-09	1.000000	1.80321e-08	1.000000
rad42	3.62058e-09	1.000000	1.37338e-08	1.000000
rad14	2.91034e-09	1.000000	1.10396e-08	1.000000
rad40anti	2.87025e-09	1.000000	1.08876e-08	1.000000
rad41	8.36186e-10	1.000000	3.17186e-09	1.000000
rad27	3.71520e-10	1.000000	1.40926e-09	1.000000
rad31	8.57195e-11	1.000000	3.25155e-10	1.000000
rad5	9.67861e-12	1.000000	3.67134e-11	1.000000

10000.0000 Pa, 1500.00000 K

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

Total | 3.76908e-14 (1.00) | 8.53034e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.773676	0.773676	0.00000	0.00000
Indene+H	0.198318	0.971994	0.876255	0.876255
Ph+Allene	0.00838788	0.980382	0.0370614	0.913316
PhCH2CCH+H	0.00683000	0.987212	0.0301780	0.943494
PhCHCCH2+H	0.00370327	0.990915	0.0163627	0.959857
rad6	0.00245628	0.993371	0.0108530	0.970710
PAH9+H	0.00115406	0.994525	0.00509917	0.975809
PhCCH+CH3	0.00101273	0.995538	0.00447470	0.980284
rad23	0.000769700	0.996308	0.00340088	0.983685
rad38	0.000535883	0.996844	0.00236777	0.986053
PAH7+H	0.000427607	0.997271	0.00188936	0.987942
rad45	0.000358504	0.997630	0.00158403	0.989526
rad22	0.000267561	0.997897	0.00118220	0.990708
rad30	0.000250855	0.998148	0.00110839	0.991817
rad35	0.000181318	0.998330	0.000801144	0.992618
rad46	0.000180134	0.998510	0.000795914	0.993414
rad19anti	0.000179235	0.998689	0.000791942	0.994206
rad50	0.000171989	0.998861	0.000759926	0.994966
Ph+MeAc	0.000166514	0.999028	0.000735732	0.995701
rad20	0.000137301	0.999165	0.000606658	0.996308
rad11	0.000127588	0.999292	0.000563742	0.996872
rad39	0.000120983	0.999413	0.000534559	0.997406
PAH3+H	0.000114042	0.999527	0.000503888	0.997910
rad21	7.86711e-05	0.999606	0.000347604	0.998258
rad9	6.52170e-05	0.999671	0.000288158	0.998546
rad18	6.08406e-05	0.999732	0.000268821	0.998815
rad51	5.28100e-05	0.999785	0.000233338	0.999048
rad7	4.83694e-05	0.999833	0.000213718	0.999262
rad36	3.34144e-05	0.999867	0.000147640	0.999409
PhCCCH3+H	2.75860e-05	0.999894	0.000121887	0.999531
rad52	1.52408e-05	0.999910	6.73405e-05	0.999599
rad60syn	1.45309e-05	0.999924	6.42038e-05	0.999663

rad59	1.24659e-05	0.999937	5.50800e-05	0.999718
rad19syn	9.72268e-06	0.999946	4.29591e-05	0.999761
rad60anti	8.75011e-06	0.999955	3.86619e-05	0.999800
rad67	6.41786e-06	0.999961	2.83570e-05	0.999828
rad28	5.29962e-06	0.999967	2.34161e-05	0.999851
rad13	5.11443e-06	0.999972	2.25978e-05	0.999874
PAH10+CH3	5.06509e-06	0.999977	2.23798e-05	0.999896
PhcycC3H3_A+H	4.44142e-06	0.999981	1.96242e-05	0.999916
rad54	3.57081e-06	0.999985	1.57774e-05	0.999932
PAH1+H	2.69827e-06	0.999988	1.19221e-05	0.999944
rad37	2.46286e-06	0.999990	1.08820e-05	0.999954
rad71	2.03437e-06	0.999992	8.98874e-06	0.999963
rad73	1.43536e-06	0.999994	6.34207e-06	0.999970
rad65	1.38973e-06	0.999995	6.14046e-06	0.999976
rad24	1.23122e-06	0.999996	5.44006e-06	0.999981
rad15	1.00623e-06	0.999997	4.44598e-06	0.999986
rad70	7.96980e-07	0.999998	3.52141e-06	0.999989
rad58	6.93249e-07	0.999999	3.06308e-06	0.999992
rad55	2.31648e-07	0.999999	1.02352e-06	0.999993
rad34	1.81648e-07	0.999999	8.02600e-07	0.999994
rad33	1.69359e-07	0.999999	7.48304e-07	0.999995
rad10	1.56344e-07	0.999999	6.90797e-07	0.999996
rad12	1.40428e-07	1.000000	6.20472e-07	0.999996
rad2	1.33999e-07	1.000000	5.92068e-07	0.999997
rad26	8.82730e-08	1.000000	3.90029e-07	0.999997
rad25	8.27296e-08	1.000000	3.65536e-07	0.999998
rad72	7.00515e-08	1.000000	3.09519e-07	0.999998
rad62	5.46960e-08	1.000000	2.41672e-07	0.999998
rad3	4.99091e-08	1.000000	2.20521e-07	0.999998
rad64	4.80761e-08	1.000000	2.12422e-07	0.999999
rad53	4.04752e-08	1.000000	1.78838e-07	0.999999
rad4	3.96201e-08	1.000000	1.75059e-07	0.999999
rad8	3.80738e-08	1.000000	1.68227e-07	0.999999
rad56	3.46097e-08	1.000000	1.52921e-07	0.999999
PAH8+H	3.42028e-08	1.000000	1.51123e-07	0.999999
rad1	3.41538e-08	1.000000	1.50907e-07	1.000000
rad68syn	1.11518e-08	1.000000	4.92736e-08	1.000000
rad61	1.08584e-08	1.000000	4.79774e-08	1.000000
rad43	1.01835e-08	1.000000	4.49951e-08	1.000000
rad68anti	7.26726e-09	1.000000	3.21100e-08	1.000000
rad47	4.73783e-09	1.000000	2.09338e-08	1.000000
rad40syn	4.10613e-09	1.000000	1.81427e-08	1.000000
rad42	3.60121e-09	1.000000	1.59118e-08	1.000000
rad40anti	2.44605e-09	1.000000	1.08077e-08	1.000000
rad14	1.96098e-09	1.000000	8.66447e-09	1.000000
rad41	7.44707e-10	1.000000	3.29045e-09	1.000000
rad27	2.37967e-10	1.000000	1.05144e-09	1.000000
rad31	6.22591e-11	1.000000	2.75088e-10	1.000000
rad5	1.49483e-11	1.000000	6.60484e-11	1.000000

10000.0000 Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	1.49570e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837177	0.837177	0.00000	0.00000
Indene+H	0.125624	0.962801	0.771537	0.771537
PhCH2CCH+H	0.0120264	0.974827	0.0738615	0.845399
Ph+Allene	0.0101834	0.985011	0.0625425	0.907941
PhCHCCH2+H	0.00481353	0.989824	0.0295629	0.937504
PAH9+H	0.00122310	0.991047	0.00751180	0.945016
rad6	0.000956885	0.992004	0.00587683	0.950893
rad50	0.000860376	0.992865	0.00528411	0.956177
rad38	0.000844472	0.993709	0.00518643	0.961363
PAH7+H	0.000747498	0.994457	0.00459086	0.965954
rad39	0.000712038	0.995169	0.00437308	0.970327
PhCCH+CH3	0.000670823	0.995840	0.00411995	0.974447
rad51	0.000655482	0.996495	0.00402573	0.978473
rad71	0.000549853	0.997045	0.00337700	0.981850
rad23	0.000447551	0.997492	0.00274869	0.984598
rad46	0.000329673	0.997822	0.00202473	0.986623
rad30	0.000329162	0.998151	0.00202159	0.988645
PAH3+H	0.000319380	0.998471	0.00196151	0.990606
rad19anti	0.000302401	0.998773	0.00185724	0.992463
rad35	0.000187979	0.998961	0.00115450	0.993618
rad73	0.000172657	0.999134	0.00106040	0.994678
Ph+MeAc	0.000166535	0.999300	0.00102279	0.995701

rad52	0.000114885	0.999415	0.000705583	0.996407
rad72	0.000105033	0.999520	0.000645072	0.997052
rad22	9.43787e-05	0.999614	0.000579639	0.997631
PAH1+H	4.23079e-05	0.999657	0.000259839	0.997891
rad45	3.43368e-05	0.999691	0.000210884	0.998102
PAH10+CH3	3.08972e-05	0.999722	0.000189759	0.998292
rad59	3.05350e-05	0.999753	0.000187535	0.998479
PhCCCH3+H	2.85439e-05	0.999781	0.000175306	0.998655
rad60syn	2.77825e-05	0.999809	0.000170630	0.998825
PhcycC3H3_A+H	2.29327e-05	0.999832	0.000140844	0.998966
rad19syn	2.03404e-05	0.999852	0.000124923	0.999091
rad60anti	1.87437e-05	0.999871	0.000115117	0.999206
rad67	1.70846e-05	0.999888	0.000104927	0.999311
rad11	1.36960e-05	0.999902	8.41158e-05	0.999395
rad20	1.30211e-05	0.999915	7.99710e-05	0.999475
rad65	1.08434e-05	0.999926	6.65960e-05	0.999542
rad9	9.25653e-06	0.999935	5.68502e-05	0.999599
PAH8+H	7.78430e-06	0.999943	4.78083e-05	0.999647
rad54	6.98695e-06	0.999950	4.29113e-05	0.999689
rad21	6.80599e-06	0.999956	4.17999e-05	0.999731
rad18	6.43815e-06	0.999963	3.95407e-05	0.999771
rad70	6.02705e-06	0.999969	3.70159e-05	0.999808
rad7	5.85140e-06	0.999975	3.59372e-05	0.999844
rad36	5.76362e-06	0.999980	3.53980e-05	0.999879
rad37	4.18146e-06	0.999985	2.56810e-05	0.999905
rad58	3.17839e-06	0.999988	1.95205e-05	0.999924
rad28	2.60264e-06	0.999990	1.59845e-05	0.999940
rad34	2.49824e-06	0.999993	1.53433e-05	0.999956
rad64	1.26242e-06	0.999994	7.75332e-06	0.999963
rad68syn	8.06622e-07	0.999995	4.95397e-06	0.999968
rad55	6.33660e-07	0.999996	3.89171e-06	0.999972
rad40syn	5.57101e-07	0.999996	3.42151e-06	0.999976
rad68anti	5.12783e-07	0.999997	3.14932e-06	0.999979
rad15	4.99502e-07	0.999997	3.06776e-06	0.999982
rad62	4.95776e-07	0.999998	3.04487e-06	0.999985
rad56	4.84275e-07	0.999998	2.97424e-06	0.999988
rad40anti	4.33761e-07	0.999999	2.66400e-06	0.999991
rad13	3.81192e-07	0.999999	2.34114e-06	0.999993
rad53	3.41411e-07	0.999999	2.09682e-06	0.999995
rad61	2.81049e-07	1.000000	1.72610e-06	0.999997
rad24	1.51438e-07	1.000000	9.30079e-07	0.999998
rad42	1.07416e-07	1.000000	6.59708e-07	0.999998
rad26	6.89058e-08	1.000000	4.23194e-07	0.999999
rad43	5.76203e-08	1.000000	3.53883e-07	0.999999
rad12	3.30990e-08	1.000000	2.03282e-07	0.999999
rad47	2.37282e-08	1.000000	1.45730e-07	0.999999
rad10	2.06791e-08	1.000000	1.27003e-07	1.000000
rad8	1.78023e-08	1.000000	1.09335e-07	1.000000
rad41	1.31568e-08	1.000000	8.08039e-08	1.000000
rad33	1.30028e-08	1.000000	7.98586e-08	1.000000
rad25	9.31420e-09	1.000000	5.72044e-08	1.000000
rad2	4.87344e-09	1.000000	2.99308e-08	1.000000
rad3	1.52982e-09	1.000000	9.39556e-09	1.000000
rad1	1.36375e-09	1.000000	8.37566e-09	1.000000
rad4	9.75262e-10	1.000000	5.98970e-09	1.000000
rad14	1.86689e-10	1.000000	1.14658e-09	1.000000
rad5	1.08555e-10	1.000000	6.66705e-10	1.000000
rad27	2.14031e-11	1.000000	1.31450e-10	1.000000

10000.0000 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.47986e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866213	0.866213	0.00000	0.00000
Indene+H	0.0912728	0.957486	0.682226	0.682226
PhCH2CCH+H	0.0189585	0.976444	0.141707	0.823933
Ph+Allene	0.0105508	0.986995	0.0788630	0.902796
PhCHCCH2+H	0.00596275	0.992958	0.0445691	0.947365
PAH9+H	0.00108219	0.994040	0.00808889	0.955454
rad38	0.000642291	0.994682	0.00480085	0.960255
PAH3+H	0.000547667	0.995230	0.00409358	0.964348
PAH7+H	0.000547433	0.995777	0.00409183	0.968440
PhCCH+CH3	0.000476965	0.996254	0.00356511	0.972005
rad19anti	0.000469302	0.996724	0.00350783	0.975513
rad50	0.000450138	0.997174	0.00336459	0.978878
rad30	0.000379994	0.997554	0.00284030	0.981718

rad39	0.000361656	0.997915	0.00270322	0.984421
rad51	0.000310537	0.998226	0.00232113	0.986742
rad71	0.000237735	0.998464	0.00177697	0.988519
rad46	0.000227537	0.998691	0.00170074	0.990220
rad6	0.000220528	0.998912	0.00164835	0.991868
rad35	0.000191867	0.999104	0.00143412	0.993303
rad23	0.000180592	0.999284	0.00134985	0.994652
Ph+MeAc	0.000168741	0.999453	0.00126126	0.995914
rad73	7.52080e-05	0.999528	0.000562148	0.996476
rad52	5.73952e-05	0.999586	0.000429005	0.996905
rad59	5.06369e-05	0.999636	0.000378489	0.997283
rad72	4.50987e-05	0.999681	0.000337094	0.997620
rad60syn	4.07232e-05	0.999722	0.000304389	0.997925
PhCCCH3+H	3.60938e-05	0.999758	0.000269786	0.998195
rad67	2.84020e-05	0.999787	0.000212293	0.998407
rad60anti	2.79659e-05	0.999815	0.000209034	0.998616
PhcycC3H3_A+H	2.56183e-05	0.999840	0.000191486	0.998807
PAH1+H	2.15740e-05	0.999862	0.000161257	0.998969
rad19syn	2.08595e-05	0.999883	0.000155916	0.999125
PAH10+CH3	2.06052e-05	0.999903	0.000154015	0.999279
rad22	1.89961e-05	0.999922	0.000141987	0.999421
rad45	1.43487e-05	0.999937	0.000107250	0.999528
rad54	7.47446e-06	0.999944	5.58684e-05	0.999584
rad65	6.18656e-06	0.999950	4.62419e-05	0.999630
rad9	6.17110e-06	0.999956	4.61264e-05	0.999676
rad58	5.61988e-06	0.999962	4.20062e-05	0.999718
rad20	5.46658e-06	0.999967	4.08604e-05	0.999759
rad37	4.47757e-06	0.999972	3.34679e-05	0.999792
rad70	4.28063e-06	0.999976	3.19959e-05	0.999824
rad11	3.96584e-06	0.999980	2.96430e-05	0.999854
PAH8+H	3.52538e-06	0.999984	2.63507e-05	0.999880
rad21	2.80397e-06	0.999987	2.09585e-05	0.999901
rad36	2.45844e-06	0.999989	1.83758e-05	0.999920
rad18	1.77870e-06	0.999991	1.32951e-05	0.999933
rad7	1.60449e-06	0.999992	1.19929e-05	0.999945
rad34	1.54713e-06	0.999994	1.15641e-05	0.999957
rad28	9.35901e-07	0.999995	6.99547e-06	0.999964
rad56	7.25829e-07	0.999996	5.42527e-06	0.999969
rad55	7.17705e-07	0.999996	5.36454e-06	0.999974
rad64	6.19435e-07	0.999997	4.63002e-06	0.999979
rad53	4.76248e-07	0.999997	3.55975e-06	0.999983
rad68syn	3.91123e-07	0.999998	2.92348e-06	0.999986
rad62	3.41622e-07	0.999998	2.55348e-06	0.999988
rad15	3.28437e-07	0.999998	2.45493e-06	0.999991
rad40syn	2.58358e-07	0.999999	1.93112e-06	0.999992
rad68anti	2.48971e-07	0.999999	1.86095e-06	0.999994
rad40anti	1.99311e-07	0.999999	1.48977e-06	0.999996
rad61	1.42064e-07	0.999999	1.06187e-06	0.999997
rad13	1.37822e-07	0.999999	1.03016e-06	0.999998
rad24	8.87356e-08	1.000000	6.63261e-07	0.999999
rad42	7.17353e-08	1.000000	5.36191e-07	0.999999
rad43	4.59858e-08	1.000000	3.43725e-07	0.999999
rad26	3.76213e-08	1.000000	2.81204e-07	1.000000
rad12	3.33581e-08	1.000000	2.49338e-07	1.000000
rad8	2.03559e-08	1.000000	1.52152e-07	1.000000
rad47	9.95431e-09	1.000000	7.44042e-08	1.000000
rad10	9.10382e-09	1.000000	6.80472e-08	1.000000
rad41	8.22570e-09	1.000000	6.14836e-08	1.000000
rad33	5.74216e-09	1.000000	4.29202e-08	1.000000
rad25	4.78921e-09	1.000000	3.57973e-08	1.000000
rad2	1.60843e-09	1.000000	1.20224e-08	1.000000
rad3	4.98362e-10	1.000000	3.72504e-09	1.000000
rad1	4.71791e-10	1.000000	3.52644e-09	1.000000
rad4	3.16765e-10	1.000000	2.36768e-09	1.000000
rad5	2.02808e-10	1.000000	1.51590e-09	1.000000
rad14	8.15781e-11	1.000000	6.09762e-10	1.000000
rad27	1.39338e-11	1.000000	1.04150e-10	1.000000

10000.0000 Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	4.01181e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.878111	0.878111	0.00000	0.00000
Indene+H	0.0689915	0.947102	0.566017	0.566017
PhCH2CCH+H	0.0277475	0.974850	0.227645	0.793662
Ph+Allene	0.0107545	0.985604	0.0882320	0.881894

PhCHCCH2+H	0.00775132	0.993356	0.0635930	0.945487
PAH9+H	0.00109467	0.994450	0.00898082	0.954468
PAH3+H	0.000867061	0.995318	0.00711351	0.961581
rad38	0.000618991	0.995937	0.00507830	0.966660
rad19anti	0.000617959	0.996555	0.00506983	0.971729
PAH7+H	0.000540602	0.997095	0.00443519	0.976165
rad30	0.000417901	0.997513	0.00342853	0.979593
PhCCH+CH3	0.000362196	0.997875	0.00297152	0.982565
rad50	0.000330483	0.998206	0.00271133	0.985276
rad39	0.000247936	0.998454	0.00203411	0.987310
rad35	0.000217609	0.998671	0.00178530	0.989095
rad46	0.000211654	0.998883	0.00173644	0.990832
Ph+MeAc	0.000201253	0.999084	0.00165111	0.992483
rad51	0.000192362	0.999276	0.00157817	0.994061
rad71	0.000114322	0.999391	0.000937916	0.994999
rad59	7.64144e-05	0.999467	0.000626916	0.995626
rad60syn	5.47144e-05	0.999522	0.000448886	0.996075
PhCCCH3+H	5.20056e-05	0.999574	0.000426941	0.996502
rad6	5.20056e-05	0.999626	0.000426663	0.996928
rad23	4.99984e-05	0.999676	0.000410195	0.997339
rad67	4.81753e-05	0.999724	0.000395238	0.997734
rad52	3.93284e-05	0.999763	0.000322657	0.998057
rad60anti	3.81868e-05	0.999802	0.000313291	0.998370
rad73	3.71080e-05	0.999839	0.000304440	0.998674
PAH10+CH3	2.31651e-05	0.999862	0.000190050	0.998864
rad72	2.12286e-05	0.999883	0.000174163	0.999039
rad19syn	2.02096e-05	0.999903	0.000165803	0.999204
PhcycC3H3_A+H	1.94478e-05	0.999923	0.000159553	0.999364
PAH1+H	1.48038e-05	0.999938	0.000121453	0.999485
rad58	1.03437e-05	0.999948	8.48618e-05	0.999570
rad54	6.65115e-06	0.999955	5.45671e-05	0.999625
rad45	6.35236e-06	0.999961	5.21158e-05	0.999677
rad37	6.13725e-06	0.999967	5.03510e-05	0.999727
rad65	4.91624e-06	0.999972	4.03336e-05	0.999768
rad70	4.69727e-06	0.999977	3.85372e-05	0.999806
rad22	4.68390e-06	0.999981	3.84275e-05	0.999845
rad9	3.68579e-06	0.999985	3.02388e-05	0.999875
rad20	2.69055e-06	0.999988	2.20737e-05	0.999897
PAH8+H	1.99359e-06	0.999990	1.63558e-05	0.999913
rad34	1.54341e-06	0.999991	1.26624e-05	0.999926
rad11	1.47023e-06	0.999993	1.20620e-05	0.999938
rad21	1.34405e-06	0.999994	1.10268e-05	0.999949
rad36	1.10773e-06	0.999995	9.08799e-06	0.999958
rad18	6.80299e-07	0.999996	5.58128e-06	0.999964
rad55	6.28634e-07	0.999997	5.15741e-06	0.999969
rad7	5.68102e-07	0.999997	4.66080e-06	0.999973
rad56	5.17628e-07	0.999998	4.24670e-06	0.999978
rad64	3.97958e-07	0.999998	3.26491e-06	0.999981
rad53	3.62260e-07	0.999998	2.97204e-06	0.999984
rad68syn	2.73818e-07	0.999999	2.24645e-06	0.999986
rad28	2.69935e-07	0.999999	2.21459e-06	0.999988
rad62	2.41245e-07	0.999999	1.97921e-06	0.999990
rad15	2.11598e-07	0.999999	1.73599e-06	0.999992
rad68anti	1.74819e-07	1.000000	1.43425e-06	0.999994
rad40syn	1.58796e-07	1.000000	1.30279e-06	0.999995
rad40anti	1.18528e-07	1.000000	9.72425e-07	0.999996
rad61	1.07104e-07	1.000000	8.78701e-07	0.999997
rad43	5.96982e-08	1.000000	4.89774e-07	0.999997
rad13	5.53131e-08	1.000000	4.53797e-07	0.999998
rad24	5.49400e-08	1.000000	4.50737e-07	0.999998
rad42	4.58748e-08	1.000000	3.76364e-07	0.999998
rad12	2.91700e-08	1.000000	2.39315e-07	0.999999
rad8	2.20048e-08	1.000000	1.80531e-07	0.999999
rad26	2.10722e-08	1.000000	1.72879e-07	0.999999
rad41	8.42962e-09	1.000000	6.91580e-08	0.999999
rad10	5.90173e-09	1.000000	4.84187e-08	0.999999
rad47	5.35540e-09	1.000000	4.39366e-08	0.999999
rad25	2.74140e-09	1.000000	2.24909e-08	0.999999
rad33	2.71226e-09	1.000000	2.22518e-08	0.999999
rad2	7.46268e-10	1.000000	6.12250e-09	0.999999
rad1	2.33510e-10	1.000000	1.91575e-09	0.999999
rad5	2.23506e-10	1.000000	1.83368e-09	0.999999
rad3	1.82234e-10	1.000000	1.49508e-09	0.999999
rad4	1.14766e-10	1.000000	9.41557e-10	0.999999
rad14	4.24355e-11	1.000000	3.48147e-10	0.999999
rad27	1.18752e-11	1.000000	9.74258e-11	0.999999

10000.0000 Pa, 2500.00000 K

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Rate constant | True (fraction) Effective (fraction)

 Total | 5.32896e-13 (1.00) 6.40546e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.879799	0.879799	0.00000	0.00000
Indene+H	0.0536199	0.933419	0.446087	0.446087
PhCH2CCH+H	0.0379710	0.971390	0.315897	0.761984
Ph+Allene	0.0112871	0.982677	0.0939024	0.855886
PhCHCCH2+H	0.0100427	0.992720	0.0835498	0.939436
PAH3+H	0.00124790	0.993968	0.0103818	0.949818
PAH9+H	0.00112608	0.995094	0.00936833	0.959186
rad19anti	0.000724713	0.995818	0.00602920	0.965216
rad38	0.000650678	0.996469	0.00541327	0.970629
PAH7+H	0.000624155	0.997093	0.00519261	0.975821
rad30	0.000442420	0.997536	0.00368068	0.979502
rad50	0.000333443	0.997869	0.00277406	0.982276
PhCCH+CH3	0.000304176	0.998173	0.00253057	0.984807
Ph+MeAc	0.000258829	0.998432	0.00215331	0.986960
rad35	0.000248538	0.998681	0.00206770	0.989028
rad39	0.000235086	0.998916	0.00195578	0.990984
rad46	0.000226360	0.999142	0.00188318	0.992867
rad51	0.000169943	0.999312	0.00141383	0.994281
rad59	0.000105104	0.999417	0.000874409	0.995155
rad67	7.43680e-05	0.999491	0.000618699	0.995774
PhCCCH3+H	7.25591e-05	0.999564	0.000603650	0.996377
rad60syn	6.82939e-05	0.999632	0.000568166	0.996945
rad71	6.33983e-05	0.999696	0.000527437	0.997473
rad60anti	4.83208e-05	0.999744	0.000402002	0.997875
rad52	3.79688e-05	0.999782	0.000315878	0.998191
PAH10+CH3	3.36290e-05	0.999816	0.000279774	0.998471
rad19syn	2.47748e-05	0.999840	0.000206112	0.998677
rad73	2.24182e-05	0.999863	0.000186507	0.998863
PhcycC3H3_A+H	1.78694e-05	0.999881	0.000148663	0.999012
rad58	1.72912e-05	0.999898	0.000143853	0.999156
rad23	1.68059e-05	0.999915	0.000139816	0.999295
PAH1+H	1.53742e-05	0.999930	0.000127905	0.999423
rad6	1.47365e-05	0.999945	0.000122599	0.999546
rad72	1.07545e-05	0.999956	8.94711e-05	0.999635
rad37	8.27989e-06	0.999964	6.88839e-05	0.999704
rad54	6.67836e-06	0.999971	5.55602e-05	0.999760
rad70	6.43536e-06	0.999977	5.35385e-05	0.999813
rad65	4.44853e-06	0.999982	3.70092e-05	0.999850
rad45	2.98590e-06	0.999985	2.48410e-05	0.999875
rad34	2.12075e-06	0.999987	1.76434e-05	0.999893
rad9	2.10124e-06	0.999989	1.74811e-05	0.999910
PAH8+H	1.82831e-06	0.999991	1.52105e-05	0.999926
rad22	1.63240e-06	0.999992	1.35806e-05	0.999939
rad20	1.48587e-06	0.999994	1.23616e-05	0.999952
rad21	7.19723e-07	0.999994	5.98768e-06	0.999958
rad55	6.38331e-07	0.999995	5.31055e-06	0.999963
rad11	6.27832e-07	0.999996	5.22320e-06	0.999968
rad36	5.28575e-07	0.999996	4.39744e-06	0.999972
rad56	4.42149e-07	0.999997	3.67843e-06	0.999976
rad64	3.93439e-07	0.999997	3.27319e-06	0.999979
rad53	3.38128e-07	0.999997	2.81303e-06	0.999982
rad68syn	3.24944e-07	0.999998	2.70335e-06	0.999985
rad18	3.08983e-07	0.999998	2.57056e-06	0.999988
rad62	2.17330e-07	0.999998	1.80806e-06	0.999989
rad7	2.12929e-07	0.999998	1.77145e-06	0.999991
rad68anti	2.07892e-07	0.999999	1.72955e-06	0.999993
rad40syn	1.65149e-07	0.999999	1.37395e-06	0.999994
rad61	1.35034e-07	0.999999	1.12341e-06	0.999995
rad15	1.31967e-07	0.999999	1.09789e-06	0.999996
rad40anti	1.17860e-07	0.999999	9.80527e-07	0.999997
rad28	9.78861e-08	0.999999	8.14356e-07	0.999998
rad43	9.31094e-08	0.999999	7.74617e-07	0.999999
rad24	3.53828e-08	0.999999	2.94365e-07	0.999999
rad42	3.50895e-08	0.999999	2.91924e-07	1.000000
rad12	2.36060e-08	0.999999	1.96388e-07	1.000000
rad8	2.28397e-08	1.000000	1.90014e-07	1.000000
rad13	2.25818e-08	1.000000	1.87867e-07	1.000000
rad26	1.31968e-08	1.000000	1.09790e-07	1.000000
rad41	1.28248e-08	1.000000	1.06695e-07	1.000000
rad47	4.14977e-09	1.000000	3.45237e-08	1.000000
rad10	4.10639e-09	1.000000	3.41628e-08	1.000000
rad25	1.72094e-09	1.000000	1.43173e-08	1.000000
rad33	1.29473e-09	1.000000	1.07714e-08	1.000000
rad2	4.17774e-10	1.000000	3.47564e-09	1.000000
rad5	2.31243e-10	1.000000	1.92381e-09	1.000000

rad1	1.41925e-10	1.000000	1.18074e-09	1.00000
rad3	6.93284e-11	1.000000	5.76773e-10	1.00000
rad4	4.29883e-11	1.000000	3.57638e-10	1.00000
rad14	2.53936e-11	1.000000	2.11260e-10	1.00000
rad27	1.06811e-11	1.000000	8.88610e-11	1.00000

10000.0000 Pa, 2750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.05113e-13 (1.00)	1.00506e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.875165	0.875165	0.00000	0.00000
PhCH2CCH+H	0.0492394	0.924404	0.394437	0.394437
Indene+H	0.0424892	0.966894	0.340364	0.734801
PhCHCCH2+H	0.0126740	0.979568	0.101526	0.836327
Ph+Allene	0.0121462	0.991714	0.0972987	0.933626
PAH3+H	0.00165608	0.993370	0.0132662	0.946892
PAH9+H	0.00115097	0.994521	0.00921999	0.956112
rad19anti	0.000786776	0.995308	0.00630255	0.962414
PAH7+H	0.000745482	0.996053	0.00597176	0.968386
rad38	0.000684072	0.996737	0.00547983	0.973866
rad30	0.000454347	0.997192	0.00363959	0.977506
rad50	0.000389585	0.997581	0.00312081	0.980626
Ph+MeAc	0.000332154	0.997913	0.00266076	0.983287
PhCCH+CH3	0.000292556	0.998206	0.00234355	0.985631
rad35	0.000279011	0.998485	0.00223504	0.987866
rad39	0.000270494	0.998755	0.00216682	0.990033
rad46	0.000246842	0.999002	0.00197736	0.992010
rad51	0.000196082	0.999198	0.00157074	0.993581
rad59	0.000134021	0.999332	0.00107359	0.994654
rad67	0.000103696	0.999436	0.000830667	0.995485
PhCCCH3+H	9.48750e-05	0.999531	0.000760006	0.996245
rad60syn	8.03844e-05	0.999611	0.000643927	0.996889
rad60anti	5.75325e-05	0.999669	0.000460870	0.997350
rad71	4.98141e-05	0.999719	0.000399041	0.997749
PAH10+CH3	4.88021e-05	0.999767	0.000390934	0.998140
rad52	4.45118e-05	0.999812	0.000356566	0.998496
rad19syn	3.47842e-05	0.999847	0.000278643	0.998775
rad58	2.60878e-05	0.999873	0.000208979	0.998984
PAH1+H	2.08550e-05	0.999894	0.000167061	0.999151
PhcycC3H3_A+H	2.00854e-05	0.999914	0.000160897	0.999312
rad73	2.00728e-05	0.999934	0.000160795	0.999473
rad37	1.02942e-05	0.999944	8.24625e-05	0.999555
rad70	9.19566e-06	0.999953	7.36628e-05	0.999629
rad54	7.17060e-06	0.999960	5.74408e-05	0.999686
rad72	6.85409e-06	0.999967	5.49054e-05	0.999741
rad23	6.70597e-06	0.999974	5.37189e-05	0.999795
rad65	4.99453e-06	0.999979	4.00092e-05	0.999835
rad6	4.61373e-06	0.999984	3.69588e-05	0.999872
rad34	3.17052e-06	0.999987	2.53978e-05	0.999897
PAH8+H	2.80320e-06	0.999990	2.24554e-05	0.999920
rad45	1.48245e-06	0.999991	1.18753e-05	0.999932
rad9	1.18943e-06	0.999992	9.52805e-06	0.999941
rad20	8.96324e-07	0.999993	7.18010e-06	0.999948
rad55	7.10631e-07	0.999994	5.69258e-06	0.999954
rad22	6.96224e-07	0.999995	5.57717e-06	0.999960
rad56	5.42093e-07	0.999995	4.34249e-06	0.999964
rad64	5.35283e-07	0.999996	4.28794e-06	0.999968
rad68syn	5.21508e-07	0.999996	4.17759e-06	0.999972
rad21	4.19768e-07	0.999997	3.36260e-06	0.999976
rad53	4.11204e-07	0.999997	3.29399e-06	0.999979
rad68anti	3.33537e-07	0.999997	2.67183e-06	0.999982
rad11	3.06203e-07	0.999998	2.45287e-06	0.999984
rad62	2.74185e-07	0.999998	2.19639e-06	0.999986
rad36	2.65805e-07	0.999998	2.12926e-06	0.999988
rad40syn	2.62367e-07	0.999998	2.10172e-06	0.999991
rad61	2.12880e-07	0.999999	1.70530e-06	0.999992
rad40anti	1.85490e-07	0.999999	1.48588e-06	0.999994
rad18	1.57470e-07	0.999999	1.26143e-06	0.999995
rad43	1.40610e-07	0.999999	1.12637e-06	0.999996
rad7	8.38039e-08	0.999999	6.71320e-07	0.999997
rad15	8.12986e-08	0.999999	6.51251e-07	0.999997
rad28	4.34373e-08	0.999999	3.47959e-07	0.999998
rad42	4.25382e-08	0.999999	3.40757e-07	0.999998
rad24	2.34741e-08	0.999999	1.88042e-07	0.999998
rad8	2.30102e-08	0.999999	1.84326e-07	0.999999
rad41	2.10124e-08	0.999999	1.68322e-07	0.999999

rad12	1.83860e-08	0.999999	1.47283e-07	0.999999
rad13	9.63024e-09	0.999999	7.71440e-08	0.999999
rad26	8.47475e-09	0.999999	6.78879e-08	0.999999
rad47	4.42089e-09	0.999999	3.54140e-08	0.999999
rad10	2.85454e-09	0.999999	2.28666e-08	0.999999
rad25	1.18467e-09	0.999999	9.48994e-09	0.999999
rad33	6.42962e-10	0.999999	5.15051e-09	0.999999
rad2	2.57086e-10	0.999999	2.05942e-09	0.999999
rad5	2.30400e-10	0.999999	1.84564e-09	0.999999
rad1	9.60076e-11	0.999999	7.69079e-10	0.999999
rad3	2.81426e-11	0.999999	2.25439e-10	0.999999
rad14	1.79242e-11	0.999999	1.43584e-10	0.999999
rad4	1.70826e-11	0.999999	1.36842e-10	0.999999
rad27	9.47845e-12	0.999999	7.59281e-11	0.999999

10000.0000 Pa, 3000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.15309e-12 (1.00)	1.53877e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866553	0.866553	0.00000	0.00000
PhCH2CCH+H	0.0611737	0.927727	0.458411	0.458411
Indene+H	0.0341712	0.961898	0.256065	0.714476
PhCHCCH2+H	0.0154879	0.977386	0.116060	0.830536
Ph+Allene	0.0132680	0.990654	0.0994253	0.929961
PAH3+H	0.00206029	0.992714	0.0154390	0.945400
PAH9+H	0.00114511	0.993859	0.00858096	0.953981
PAH7+H	0.000872983	0.994732	0.00654177	0.960523
rad19anti	0.000811384	0.995544	0.00608018	0.966603
rad38	0.000697860	0.996241	0.00522947	0.971833
rad50	0.000460272	0.996702	0.00344909	0.975282
rad30	0.000455439	0.997157	0.00341287	0.978695
Ph+MeAc	0.000411724	0.997569	0.00308529	0.981780
rad39	0.000324631	0.997893	0.00243265	0.984213
PhCCH+CH3	0.000319150	0.998213	0.00239158	0.986604
rad35	0.000304413	0.998517	0.00228115	0.988885
rad46	0.000261839	0.998779	0.00196212	0.990847
rad51	0.000243465	0.999022	0.00182443	0.992672
rad59	0.000161020	0.999183	0.00120662	0.993878
rad67	0.000133017	0.999316	0.000996771	0.994875
PhCCCH3+H	0.000117562	0.999434	0.000880965	0.995756
rad60syn	9.03558e-05	0.999524	0.000677089	0.996433
PAH10+CH3	6.59188e-05	0.999590	0.000493969	0.996927
rad60anti	6.53022e-05	0.999656	0.000489348	0.997417
rad71	5.78290e-05	0.999713	0.000433347	0.997850
rad52	5.38222e-05	0.999767	0.000403321	0.998253
rad19syn	5.02640e-05	0.999817	0.000376658	0.998630
rad58	3.61519e-05	0.999854	0.000270908	0.998901
PAH1+H	2.95631e-05	0.999883	0.000221534	0.999122
rad73	2.48258e-05	0.999908	0.000186034	0.999308
PhcycC3H3_A+H	2.37735e-05	0.999932	0.000178149	0.999487
rad70	1.27641e-05	0.999945	9.56489e-05	0.999582
rad37	1.18508e-05	0.999956	8.88050e-05	0.999671
rad54	7.78053e-06	0.999964	5.83041e-05	0.999729
rad72	6.63730e-06	0.999971	4.97372e-05	0.999779
rad65	6.05222e-06	0.999977	4.53528e-05	0.999824
PAH8+H	4.99764e-06	0.999982	3.74503e-05	0.999862
rad34	4.62589e-06	0.999986	3.46645e-05	0.999897
rad23	2.96411e-06	0.999989	2.22118e-05	0.999919
rad6	1.58238e-06	0.999991	1.18577e-05	0.999931
rad68syn	8.63762e-07	0.999992	6.47268e-06	0.999937
rad55	8.01706e-07	0.999993	6.00766e-06	0.999943
rad64	7.77689e-07	0.999993	5.82768e-06	0.999949
rad45	7.73830e-07	0.999994	5.79877e-06	0.999955
rad56	7.35843e-07	0.999995	5.51411e-06	0.999960
rad9	6.83380e-07	0.999996	5.12097e-06	0.999965
rad20	5.79331e-07	0.999996	4.34127e-06	0.999970
rad68anti	5.51825e-07	0.999997	4.13515e-06	0.999974
rad53	5.31449e-07	0.999997	3.98246e-06	0.999978
rad40syn	4.54570e-07	0.999998	3.40636e-06	0.999981
rad62	3.84636e-07	0.999998	2.88231e-06	0.999984
rad22	3.38802e-07	0.999998	2.53884e-06	0.999987
rad61	3.29756e-07	0.999999	2.47106e-06	0.999989
rad40anti	3.25227e-07	0.999999	2.43712e-06	0.999992
rad21	2.61811e-07	0.999999	1.96191e-06	0.999994
rad43	1.95897e-07	1.000000	1.46797e-06	0.999995
rad11	1.69672e-07	1.000000	1.27145e-06	0.999996

rad36	1.40238e-07	1.000000	1.05089e-06	0.999997
rad18	8.74375e-08	1.00000	6.55221e-07	0.999998
rad42	6.28248e-08	1.00000	4.70784e-07	0.999998
rad15	5.03821e-08	1.00000	3.77543e-07	0.999999
rad7	3.56546e-08	1.00000	2.67181e-07	0.999999
rad41	3.22739e-08	1.00000	2.41848e-07	0.999999
rad8	2.26471e-08	1.00000	1.69708e-07	0.999999
rad28	2.22016e-08	1.00000	1.66370e-07	1.000000
rad24	1.59586e-08	1.00000	1.19587e-07	1.000000
rad12	1.40936e-08	1.00000	1.05612e-07	1.000000
rad26	5.46293e-09	1.00000	4.09369e-08	1.000000
rad47	5.25553e-09	1.00000	3.93828e-08	1.000000
rad13	4.44323e-09	1.00000	3.32958e-08	1.000000
rad10	1.96662e-09	1.00000	1.47370e-08	1.000000
rad25	8.79301e-10	1.00000	6.58912e-09	1.00000
rad33	3.41733e-10	1.00000	2.56081e-09	1.00000
rad5	2.23804e-10	1.00000	1.67710e-09	1.00000
rad2	1.65888e-10	1.00000	1.24310e-09	1.00000
rad1	6.84737e-11	1.00000	5.13114e-10	1.00000
rad14	1.43985e-11	1.00000	1.07897e-10	1.00000
rad3	1.26319e-11	1.00000	9.46582e-11	1.00000
rad27	8.19815e-12	1.00000	6.14336e-11	1.00000
rad4	7.48213e-12	1.00000	5.60680e-11	1.00000

10000.0000 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.58309e-12 (1.00)	2.28807e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.855468	0.855468	0.00000	0.00000
PhCH2CCH+H	0.0734305	0.928898	0.508058	0.508058
Indene+H	0.0278246	0.956723	0.192515	0.700573
PhCHCCH2+H	0.0183641	0.975087	0.127059	0.827632
Ph+Allene	0.0145941	0.989681	0.100975	0.928607
PAH3+H	0.00243687	0.992118	0.0168605	0.945468
PAH9+H	0.00110507	0.993223	0.00764589	0.953113
PAH7+H	0.000989314	0.994213	0.00684496	0.959958
rad19anti	0.000808141	0.995021	0.00559144	0.965550
rad38	0.000687913	0.995709	0.00475960	0.970309
rad50	0.000525133	0.996234	0.00363334	0.973943
Ph+MeAc	0.000489578	0.996723	0.00338734	0.977330
rad30	0.000447968	0.997171	0.00309945	0.980430
rad39	0.000380817	0.997552	0.00263483	0.983064
PhCCH+CH3	0.000378386	0.997930	0.00261802	0.985682
rad35	0.000323099	0.998254	0.00223549	0.987918
rad51	0.000295997	0.998550	0.00204798	0.989966
rad46	0.000267747	0.998817	0.00185251	0.991818
rad59	0.000184719	0.999002	0.00127805	0.993096
rad67	0.000159920	0.999162	0.00110647	0.994203
PhCCCH3+H	0.000140371	0.999302	0.000971216	0.995174
rad60syn	9.79859e-05	0.999400	0.000677954	0.995852
PAH10+CH3	8.28638e-05	0.999483	0.000573326	0.996425
rad71	7.98901e-05	0.999563	0.000552751	0.996978
rad60anti	7.14116e-05	0.999634	0.000494089	0.997472
rad19syn	7.14041e-05	0.999706	0.000494037	0.997966
rad52	6.30031e-05	0.999769	0.000435912	0.998402
rad58	4.68540e-05	0.999816	0.000324178	0.998726
PAH1+H	4.03371e-05	0.999856	0.000279088	0.999005
rad73	3.38984e-05	0.999890	0.000234539	0.999240
PhcycC3H3_A+H	2.79211e-05	0.999918	0.000193184	0.999433
rad70	1.69352e-05	0.999935	0.000117173	0.999550
rad37	1.28476e-05	0.999948	8.88915e-05	0.999639
rad72	8.91775e-06	0.999957	6.17010e-05	0.999701
PAH8+H	8.61005e-06	0.999965	5.95721e-05	0.999760
rad54	8.39538e-06	0.999974	5.80868e-05	0.999819
rad65	7.21711e-06	0.999981	4.99344e-05	0.999869
rad34	6.42139e-06	0.999987	4.44290e-05	0.999913
rad23	1.41151e-06	0.999989	9.76606e-06	0.999923
rad68syn	1.35630e-06	0.999990	9.38409e-06	0.999932
rad64	1.08870e-06	0.999991	7.53260e-06	0.999940
rad56	9.85895e-07	0.999992	6.82131e-06	0.999946
rad55	8.95875e-07	0.999993	6.19847e-06	0.999953
rad68anti	8.65560e-07	0.999994	5.98872e-06	0.999959
rad40syn	7.51718e-07	0.999995	5.20106e-06	0.999964
rad53	6.76532e-07	0.999995	4.68086e-06	0.999969
rad6	6.04701e-07	0.999996	4.18387e-06	0.999973
rad40anti	5.46171e-07	0.999996	3.77890e-06	0.999976

rad62	5.30721e-07	0.999997	3.67200e-06	0.999980
rad61	4.74226e-07	0.999997	3.28112e-06	0.999983
rad45	4.22242e-07	0.999998	2.92145e-06	0.999986
rad9	4.03000e-07	0.999998	2.78832e-06	0.999989
rad20	3.95552e-07	0.999999	2.73678e-06	0.999992
rad43	2.54131e-07	0.999999	1.75831e-06	0.999994
rad22	1.82147e-07	0.999999	1.26025e-06	0.999995
rad21	1.72279e-07	0.999999	1.19198e-06	0.999996
rad11	1.04902e-07	0.999999	7.25804e-07	0.999997
rad42	9.28900e-08	0.999999	6.42696e-07	0.999997
rad36	7.71889e-08	1.000000	5.34062e-07	0.999998
rad18	5.18917e-08	1.000000	3.59033e-07	0.999998
rad41	4.59006e-08	1.000000	3.17582e-07	0.999999
rad15	3.17384e-08	1.000000	2.19595e-07	0.999999
rad8	2.18601e-08	1.000000	1.51248e-07	0.999999
rad7	1.66774e-08	1.000000	1.15389e-07	0.999999
rad28	1.25412e-08	1.000000	8.67710e-08	0.999999
rad24	1.10811e-08	1.000000	7.66692e-08	0.999999
rad12	1.07632e-08	1.000000	7.44697e-08	0.999999
rad47	6.20093e-09	1.000000	4.29036e-08	0.999999
rad26	3.53987e-09	1.000000	2.44920e-08	0.999999
rad13	2.25331e-09	1.000000	1.55904e-08	0.999999
rad10	1.35047e-09	1.000000	9.34378e-09	0.999999
rad25	6.87922e-10	1.000000	4.75966e-09	0.999999
rad5	2.14920e-10	1.000000	1.48701e-09	0.999999
rad33	1.96218e-10	1.000000	1.35761e-09	0.999999
rad2	1.10515e-10	1.000000	7.64639e-10	0.999999
rad1	5.02491e-11	1.000000	3.47668e-10	0.999999
rad14	1.23846e-11	1.000000	8.56878e-11	0.999999
rad27	6.95119e-12	1.000000	4.80946e-11	0.999999
rad3	6.35660e-12	1.000000	4.39807e-11	0.999999
rad4	3.67856e-12	1.000000	2.54516e-11	0.999999

10000.0000 Pa, 3500.00000 K

Rate constant	True (fraction)		Effective (fraction)	

Total	2.10046e-12 (1.00)		3.29934e-13 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.842923	0.842923	0.00000	0.00000
PhCH2CCH+H	0.0857240	0.928647	0.545746	0.545746
Indene+H	0.0229133	0.951560	0.145873	0.691619
PhCHCCH2+H	0.0212224	0.972783	0.135109	0.826728
Ph+Allene	0.0160716	0.988854	0.102317	0.929045
PAH3+H	0.00277099	0.991625	0.0176410	0.946686
PAH7+H	0.00108642	0.992712	0.00691651	0.953603
PAH9+H	0.00103818	0.993750	0.00660938	0.960212
rad19anti	0.000785660	0.994536	0.00500176	0.965214
rad38	0.000657604	0.995193	0.00418652	0.969400
rad50	0.000574429	0.995768	0.00365700	0.973057
Ph+MeAc	0.000559773	0.996327	0.00356370	0.976621
PhCCH+CH3	0.000466884	0.996794	0.00297233	0.979593
rad30	0.000434288	0.997229	0.00276481	0.982358
rad39	0.000429819	0.997658	0.00273636	0.985094
rad51	0.000344106	0.998002	0.00219069	0.987285
rad35	0.000335150	0.998338	0.00213367	0.989419
rad46	0.000264692	0.998602	0.00168512	0.991104
rad59	0.000204445	0.998807	0.00130156	0.992405
rad67	0.000182847	0.998990	0.00116406	0.993569
PhCCCH3+H	0.000163680	0.999153	0.00104204	0.994612
rad71	0.000111456	0.999265	0.000709564	0.995321
rad60syn	0.000103351	0.999368	0.000657963	0.995979
PAH10+CH3	9.82200e-05	0.999466	0.000625300	0.996604
rad19syn	9.79998e-05	0.999564	0.000623898	0.997228
rad60anti	7.58716e-05	0.999640	0.000483023	0.997711
rad52	7.05087e-05	0.999711	0.000448881	0.998160
rad58	5.76273e-05	0.999768	0.000366874	0.998527
PAH1+H	5.22801e-05	0.999821	0.000332832	0.998860
rad73	4.54671e-05	0.999866	0.000289458	0.999149
PhcycC3H3_A+H	3.21124e-05	0.999898	0.000204438	0.999354
rad70	2.14962e-05	0.999920	0.000136851	0.999491
PAH8+H	1.38305e-05	0.999933	8.80493e-05	0.999579
rad37	1.33183e-05	0.999947	8.47884e-05	0.999663
rad72	1.31663e-05	0.999960	8.38206e-05	0.999747
rad54	8.98523e-06	0.999969	5.72028e-05	0.999804
rad34	8.47998e-06	0.999977	5.39863e-05	0.999858
rad65	8.26354e-06	0.999986	5.26084e-05	0.999911
rad68syn	1.99777e-06	0.999988	1.27184e-05	0.999924

rad64	1.44210e-06	0.999989	9.18086e-06	0.999933
rad56	1.27685e-06	0.999990	8.12885e-06	0.999941
rad68anti	1.27376e-06	0.999992	8.10915e-06	0.999949
rad40syn	1.16117e-06	0.999993	7.39239e-06	0.999957
rad55	9.88322e-07	0.999994	6.29198e-06	0.999963
rad40anti	8.55911e-07	0.999995	5.44900e-06	0.999968
rad53	8.37363e-07	0.999996	5.33092e-06	0.999974
rad23	7.14961e-07	0.999996	4.55167e-06	0.999978
rad62	6.99919e-07	0.999997	4.45591e-06	0.999983
rad61	6.34419e-07	0.999998	4.03891e-06	0.999987
rad43	3.12161e-07	0.999998	1.98731e-06	0.999989
rad20	2.82300e-07	0.999998	1.79721e-06	0.999990
rad6	2.60462e-07	0.999998	1.65818e-06	0.999992
rad9	2.45110e-07	0.999999	1.56045e-06	0.999994
rad45	2.39450e-07	0.999999	1.52442e-06	0.999995
rad42	1.30831e-07	0.999999	8.32910e-07	0.999996
rad21	1.18416e-07	0.999999	7.53873e-07	0.999997
rad22	1.16089e-07	0.999999	6.75397e-07	0.999997
rad11	7.07082e-08	0.999999	4.50151e-07	0.999998
rad41	6.12515e-08	0.999999	3.89947e-07	0.999998
rad36	4.40731e-08	0.999999	2.80584e-07	0.999999
rad18	3.24797e-08	0.999999	2.06776e-07	0.999999
rad8	2.07463e-08	1.000000	1.32077e-07	0.999999
rad15	2.04220e-08	1.000000	1.30013e-07	0.999999
rad7	8.58052e-09	1.000000	5.46263e-08	0.999999
rad12	8.24204e-09	1.000000	5.24715e-08	0.999999
rad24	7.84284e-09	1.000000	4.99300e-08	0.999999
rad28	7.59046e-09	1.000000	4.83233e-08	0.999999
rad47	7.02844e-09	1.000000	4.47453e-08	0.999999
rad26	2.31654e-09	1.000000	1.47478e-08	0.999999
rad13	1.25402e-09	1.000000	7.98351e-09	0.999999
rad10	9.31906e-10	1.000000	5.93281e-09	0.999999
rad25	5.56884e-10	1.000000	3.54530e-09	0.999999
rad5	2.05717e-10	1.000000	1.30966e-09	0.999999
rad33	1.21249e-10	1.000000	7.71911e-10	0.999999
rad2	7.61207e-11	1.000000	4.84609e-10	0.999999
rad1	3.75722e-11	1.000000	2.39197e-10	0.999999
rad14	1.09417e-11	1.000000	6.96587e-11	0.999999
rad27	5.83207e-12	1.000000	3.71288e-11	0.999999
rad3	3.56363e-12	1.000000	2.26872e-11	0.999999
rad4	2.02508e-12	1.000000	1.28923e-11	0.999999

10000.0000 Pa, 3750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.70978e-12 (1.00)	4.61716e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829611	0.829611	0.00000	0.00000
PhCH2CCH+H	0.0978313	0.927442	0.574164	0.574164
PhCHCCH2+H	0.0240138	0.951456	0.140935	0.715099
Indene+H	0.0190739	0.970530	0.111943	0.827042
Ph+Allene	0.0176547	0.988185	0.103614	0.930656
PAH3+H	0.00305573	0.991240	0.0179338	0.948590
PAH7+H	0.00116216	0.992403	0.00682065	0.955410
PAH9+H	0.000954530	0.993357	0.00560206	0.961013
rad19anti	0.000750724	0.994108	0.00440594	0.965418
Ph+MeAc	0.000618487	0.994726	0.00362985	0.969048
rad38	0.000612861	0.995339	0.00359683	0.972645
rad50	0.000604924	0.995944	0.00355025	0.976195
PhCCH+CH3	0.000581914	0.996526	0.00341521	0.979611
rad39	0.000467174	0.996993	0.00274181	0.982352
rad30	0.000416532	0.997410	0.00244459	0.984797
rad51	0.000382544	0.997792	0.00224512	0.987042
rad35	0.000341414	0.998134	0.00200373	0.989046
rad46	0.000254420	0.998388	0.00149317	0.990539
rad59	0.000220087	0.998608	0.00129168	0.991831
rad67	0.000201010	0.998809	0.00117971	0.993010
PhCCCH3+H	0.000187982	0.998997	0.00110325	0.994114
rad71	0.000148897	0.999146	0.000873864	0.994988
rad19syn	0.000129272	0.999275	0.000758689	0.995746
PAH10+CH3	0.000111206	0.999387	0.000652659	0.996399
rad60syn	0.000106707	0.999493	0.000626255	0.997025
rad60anti	7.88386e-05	0.999572	0.000462697	0.997488
rad52	7.56664e-05	0.999648	0.000444080	0.997932
rad58	6.80299e-05	0.999716	0.000399262	0.998331
PAH1+H	6.46899e-05	0.999780	0.000379660	0.998711
rad73	5.81070e-05	0.999839	0.000341025	0.999052

PhcycC3H3_A+H	3.61416e-05	0.999875	0.000212112	0.999264
rad70	2.62423e-05	0.999901	0.000154014	0.999418
PAH8+H	2.07740e-05	0.999922	0.000121921	0.999540
rad72	1.90132e-05	0.999941	0.000111587	0.999651
rad37	1.33586e-05	0.999954	7.84006e-05	0.999730
rad34	1.07177e-05	0.999965	6.29015e-05	0.999793
rad54	9.54139e-06	0.999974	5.59977e-05	0.999849
rad65	9.08499e-06	0.999983	5.33191e-05	0.999902
rad68syn	2.77807e-06	0.999986	1.63043e-05	0.999918
rad64	1.81581e-06	0.999988	1.06569e-05	0.999929
rad68anti	1.76989e-06	0.999990	1.03873e-05	0.999939
rad40syn	1.68411e-06	0.999992	9.88388e-06	0.999949
rad56	1.60002e-06	0.999993	9.39037e-06	0.999959
rad40anti	1.25737e-06	0.999994	7.37938e-06	0.999966
rad55	1.07731e-06	0.999995	6.32266e-06	0.999972
rad53	1.00904e-06	0.999996	5.92197e-06	0.999978
rad62	8.82924e-07	0.999997	5.18181e-06	0.999984
rad61	7.99350e-07	0.999998	4.69132e-06	0.999988
rad23	3.82185e-07	0.999999	2.24301e-06	0.999990
rad43	3.68008e-07	0.999999	2.15981e-06	0.999993
rad20	2.08928e-07	0.999999	1.22618e-06	0.999994
rad42	1.75118e-07	0.999999	1.02775e-06	0.999995
rad9	1.53931e-07	0.999999	9.03407e-07	0.999996
rad45	1.40430e-07	1.000000	8.24170e-07	0.999997
rad6	1.26332e-07	1.000000	7.41430e-07	0.999997
rad21	8.43878e-08	1.000000	4.95265e-07	0.999998
rad41	7.77367e-08	1.000000	4.56230e-07	0.999998
rad22	6.60046e-08	1.000000	3.87376e-07	0.999999
rad11	5.08839e-08	1.000000	2.98634e-07	0.999999
rad36	2.59788e-08	1.000000	1.52468e-07	0.999999
rad18	2.12393e-08	1.000000	1.24652e-07	0.999999
rad8	1.93964e-08	1.000000	1.13836e-07	0.999999
rad15	1.34413e-08	1.000000	7.88862e-08	0.999999
rad47	7.63387e-09	1.000000	4.48026e-08	0.999999
rad12	6.34818e-09	1.000000	3.72570e-08	1.000000
rad24	5.65122e-09	1.000000	3.31666e-08	1.000000
rad28	4.82245e-09	1.000000	2.83026e-08	1.000000
rad7	4.80773e-09	1.000000	2.82162e-08	1.000000
rad26	1.53669e-09	1.000000	9.01872e-09	1.000000
rad13	7.57303e-10	1.000000	4.44456e-09	1.000000
rad10	6.51151e-10	1.000000	3.82156e-09	1.000000
rad25	4.60807e-10	1.000000	2.70444e-09	1.000000
rad5	1.96871e-10	1.000000	1.15542e-09	1.000000
rad33	7.98689e-11	1.000000	4.68744e-10	1.000000
rad2	5.45865e-11	1.000000	3.20364e-10	1.000000
rad1	2.85030e-11	1.000000	1.67282e-10	1.000000
rad14	9.74398e-12	1.000000	5.71866e-11	1.000000
rad27	4.88034e-12	1.000000	2.86423e-11	1.000000
rad3	2.19055e-12	1.000000	1.28562e-11	1.000000
rad4	1.23028e-12	1.000000	7.22041e-12	1.000000

10000.0000 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28303e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.816015	0.816015	0.00000	0.00000
PhCH2CCH+H	0.109584	0.925599	0.595611	0.595611
PhCHCCH2+H	0.0267092	0.952308	0.145170	0.740781
Ph+Allene	0.0193044	0.971613	0.104924	0.845705
Indene+H	0.0160479	0.987661	0.0872242	0.932929
PAH3+H	0.00329015	0.990951	0.0178827	0.950812
PAH7+H	0.00121782	0.992168	0.00661913	0.957431
PAH9+H	0.000863487	0.993032	0.00469325	0.962124
PhCCH+CH3	0.000720196	0.993752	0.00391443	0.966039
rad19anti	0.000708442	0.994461	0.00385055	0.969889
Ph+MeAc	0.000663902	0.995124	0.00360846	0.973498
rad50	0.000617300	0.995742	0.00335516	0.976853
rad38	0.000559765	0.996302	0.00304245	0.979895
rad39	0.000491607	0.996793	0.00267199	0.982567
rad51	0.000409176	0.997202	0.00222397	0.984791
rad30	0.000396473	0.997599	0.00215492	0.986946
rad35	0.000343017	0.997942	0.00186437	0.988811
rad46	0.000239158	0.998181	0.00129988	0.990110
rad59	0.000231904	0.998413	0.00126045	0.991371
rad67	0.000214251	0.998627	0.00116450	0.992535
PhCCCH3+H	0.000213573	0.998841	0.00116082	0.993696

rad71	0.000188995	0.999030	0.00102723	0.994723
rad19syn	0.000163945	0.999194	0.000891080	0.995615
PAH10+CH3	0.000121540	0.999315	0.000660599	0.996275
rad60syn	0.000108395	0.999424	0.000589154	0.996864
rad60anti	8.05425e-05	0.999504	0.000437767	0.997302
rad52	7.83789e-05	0.999583	0.000426007	0.997728
rad58	7.77589e-05	0.999660	0.000422638	0.998151
PAH1+H	7.70478e-05	0.999737	0.000418772	0.998569
rad73	7.06802e-05	0.999808	0.000384163	0.998954
PhcycC3H3_A+H	3.98897e-05	0.999848	0.000216810	0.999170
rad70	3.09952e-05	0.999879	0.000168466	0.999339
PAH8+H	2.94528e-05	0.999908	0.000160083	0.999499
rad72	2.60773e-05	0.999934	0.000141736	0.999641
rad37	1.30808e-05	0.999948	7.10974e-05	0.999712
rad34	1.30524e-05	0.999961	7.09426e-05	0.999783
rad54	1.00590e-05	0.999971	5.46730e-05	0.999837
rad65	9.65149e-06	0.999980	5.24580e-05	0.999890
rad68syn	3.67923e-06	0.999984	1.99975e-05	0.999910
rad68anti	2.34246e-06	0.999986	1.27318e-05	0.999923
rad40syn	2.31473e-06	0.999989	1.25811e-05	0.999935
rad64	2.19232e-06	0.999991	1.19158e-05	0.999947
rad56	1.94803e-06	0.999993	1.05880e-05	0.999958
rad40anti	1.74782e-06	0.999994	9.49983e-06	0.999967
rad53	1.18773e-06	0.999996	6.45560e-06	0.999974
rad55	1.16181e-06	0.999997	6.31470e-06	0.999980
rad62	1.07315e-06	0.999998	5.83281e-06	0.999986
rad61	9.60055e-07	0.999999	5.21812e-06	0.999991
rad43	4.20258e-07	0.999999	2.28420e-06	0.999993
rad42	2.24453e-07	1.000000	1.21996e-06	0.999995
rad23	2.14437e-07	1.000000	1.16551e-06	0.999996
rad20	1.59379e-07	1.000000	8.66264e-07	0.999997
rad9	9.97318e-08	1.000000	5.42065e-07	0.999997
rad41	9.47714e-08	1.000000	5.15104e-07	0.999998
rad45	8.48435e-08	1.000000	4.61144e-07	0.999998
rad6	6.82627e-08	1.000000	3.71023e-07	0.999998
rad21	6.20020e-08	1.000000	3.36995e-07	0.999999
rad22	4.33949e-08	1.000000	2.35861e-07	0.999999
rad11	3.84672e-08	1.000000	2.09078e-07	0.999999
rad8	1.78963e-08	1.000000	9.72706e-08	0.999999
rad36	1.57487e-08	1.000000	8.55980e-08	0.999999
rad18	1.44127e-08	1.000000	7.83364e-08	1.000000
rad15	9.04667e-09	1.000000	4.91707e-08	1.000000
rad47	7.98888e-09	1.000000	4.34214e-08	1.000000
rad12	4.92490e-09	1.000000	2.67680e-08	1.000000
rad24	4.14303e-09	1.000000	2.25183e-08	1.000000
rad28	3.17760e-09	1.000000	1.72710e-08	1.000000
rad7	2.89389e-09	1.000000	1.57290e-08	1.000000
rad26	1.03572e-09	1.000000	5.62939e-09	1.000000
rad13	4.89411e-10	1.000000	2.66006e-09	1.000000
rad10	4.63584e-10	1.000000	2.51968e-09	1.000000
rad25	3.86977e-10	1.000000	2.10331e-09	1.000000
rad5	1.88401e-10	1.000000	1.02400e-09	1.000000
rad33	5.54974e-11	1.000000	3.01641e-10	1.000000
rad2	4.09852e-11	1.000000	2.22764e-10	1.000000
rad1	2.18897e-11	1.000000	1.18975e-10	1.000000
rad14	8.69390e-12	1.000000	4.72533e-11	1.000000
rad27	4.09465e-12	1.000000	2.22554e-11	1.000000
rad3	1.45177e-12	1.000000	7.89068e-12	1.000000
rad4	8.10267e-13	1.000000	4.40398e-12	1.000000

1000.00000 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.729617	0.729617	0.729617	0.729617
rad21	0.202823	0.932440	0.202823	0.932440
rad18	0.0406223	0.973062	0.0406223	0.973062
rad22	0.0249838	0.998046	0.0249838	0.998046
Indene+H	0.00100011	0.999046	0.00100011	0.999046
rad45	0.000888226	0.999934	0.000888226	0.999934
rad36	5.54915e-05	0.999990	5.54916e-05	0.999990
rad23	7.09304e-06	0.999997	7.09304e-06	0.999997
rad11	2.77813e-06	1.000000	2.77813e-06	1.000000
Benzyl+C2H2	7.17762e-08	1.000000	0.000000	1.000000
rad24	2.39031e-08	1.000000	2.39031e-08	1.000000
rad6	3.09656e-10	1.000000	3.09656e-10	1.000000

rad13	1.07911e-16	1.000000	1.07911e-16	1.000000
rad30	2.47703e-17	1.000000	2.47703e-17	1.000000
rad7	2.36171e-17	1.000000	2.36171e-17	1.000000
rad33	1.49632e-19	1.000000	1.49632e-19	1.000000
rad15	4.25282e-20	1.000000	4.25282e-20	1.000000
rad38	7.82365e-21	1.000000	7.82365e-21	1.000000
rad25	1.20680e-21	1.000000	1.20680e-21	1.000000
rad35	5.20810e-22	1.000000	5.20810e-22	1.000000
PAH9+H	2.12244e-22	1.000000	2.12244e-22	1.000000
rad3	3.56262e-23	1.000000	3.56262e-23	1.000000
rad4	1.81419e-23	1.000000	1.81419e-23	1.000000
PhCHCCH2+H	4.95517e-27	1.000000	4.95517e-27	1.000000
rad28	1.77037e-27	1.000000	1.77037e-27	1.000000
rad46	2.26497e-28	1.000000	2.26497e-28	1.000000
rad2	1.87440e-28	1.000000	1.87440e-28	1.000000
rad1	1.20662e-29	1.000000	1.20662e-29	1.000000
rad9	1.05023e-29	1.000000	1.05023e-29	1.000000
rad8	9.55211e-31	1.000000	9.55212e-31	1.000000
rad60syn	1.50520e-32	1.000000	1.50520e-32	1.000000
rad31	1.01462e-32	1.000000	1.01462e-32	1.000000
Ph+Allene	2.46507e-33	1.000000	2.46507e-33	1.000000
rad60anti	5.54077e-34	1.000000	5.54077e-34	1.000000
rad10	4.65976e-34	1.000000	4.65976e-34	1.000000
rad14	1.25498e-34	1.000000	1.25498e-34	1.000000
PhCCH+CH3	1.06627e-34	1.000000	1.06627e-34	1.000000
rad27	2.37629e-38	1.000000	2.37629e-38	1.000000
PhCH2CCH+H	1.38105e-38	1.000000	1.38105e-38	1.000000
PAH7+H	1.05164e-38	1.000000	1.05164e-38	1.000000
PhCCCH3+H	1.72645e-40	1.000000	1.72645e-40	1.000000
Ph+MeAc	8.98408e-42	1.000000	8.98408e-42	1.000000
PAH3+H	8.89549e-42	1.000000	8.89549e-42	1.000000
rad59	4.52586e-42	1.000000	4.52586e-42	1.000000
rad26	2.63583e-42	1.000000	2.63583e-42	1.000000
rad39	8.35336e-44	1.000000	8.35336e-44	1.000000
rad50	1.02276e-44	1.000000	1.02276e-44	1.000000
rad12	7.64384e-51	1.000000	7.64384e-51	1.000000
rad37	1.52516e-52	1.000000	1.52516e-52	1.000000
rad5	8.04818e-53	1.000000	8.04818e-53	1.000000
rad52	1.54540e-53	1.000000	1.54540e-53	1.000000
rad19syn	6.55674e-56	1.000000	6.55674e-56	1.000000
rad51	1.40557e-58	1.000000	1.40557e-58	1.000000
rad54	1.24530e-58	1.000000	1.24530e-58	1.000000
rad70	9.59883e-62	1.000000	9.59883e-62	1.000000
rad62	1.28838e-62	1.000000	1.28838e-62	1.000000
rad65	7.84885e-63	1.000000	7.84885e-63	1.000000
rad58	1.84763e-63	1.000000	1.84763e-63	1.000000
rad43	1.18960e-63	1.000000	1.18960e-63	1.000000
PAH10+CH3	4.54408e-65	1.000000	4.54408e-65	1.000000
PhcycC3H3_A+H	2.92210e-65	1.000000	2.92210e-65	1.000000
rad55	2.77050e-65	1.000000	2.77050e-65	1.000000
rad47	1.41417e-66	1.000000	1.41417e-66	1.000000
rad34	1.59959e-67	1.000000	1.59959e-67	1.000000
PAH1+H	2.36764e-71	1.000000	2.36764e-71	1.000000
rad42	7.74049e-74	1.000000	7.74049e-74	1.000000
rad41	3.10002e-76	1.000000	3.10002e-76	1.000000

1000.00000 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15918e-108 (1.00)	1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.596076	0.596076	0.596076	0.596076
rad21	0.257143	0.853219	0.257143	0.853219
rad22	0.0705316	0.923751	0.0705316	0.923751
rad18	0.0698750	0.993626	0.0698750	0.993626
Indene+H	0.00360551	0.997231	0.00360551	0.997231
rad45	0.00255852	0.999790	0.00255852	0.999790
rad36	0.000159561	0.999949	0.000159561	0.999949
rad23	4.24151e-05	0.999992	4.24151e-05	0.999992
rad11	8.52167e-06	1.00000	8.52167e-06	1.00000
Benzyl+C2H2	1.49406e-07	1.00000	0.00000	1.00000
rad24	5.52206e-09	1.00000	5.52206e-09	1.00000
rad6	1.95686e-09	1.00000	1.95686e-09	1.00000
rad13	1.21509e-15	1.00000	1.21509e-15	1.00000
rad7	3.02016e-16	1.00000	3.02016e-16	1.00000
rad30	8.86220e-17	1.00000	8.86220e-17	1.00000
rad33	1.60572e-18	1.00000	1.60572e-18	1.00000

rad15	1.40446e-19	1.00000	1.40446e-19	1.00000
rad38	4.33756e-20	1.00000	4.33756e-20	1.00000
rad35	6.57234e-21	1.00000	6.57234e-21	1.00000
rad25	5.19710e-21	1.00000	5.19710e-21	1.00000
PAH9+H	2.58267e-21	1.00000	2.58267e-21	1.00000
rad3	7.98244e-22	1.00000	7.98244e-22	1.00000
rad4	4.05140e-22	1.00000	4.05140e-22	1.00000
rad28	2.77827e-26	1.00000	2.77827e-26	1.00000
PhCHCCH2+H	1.55276e-26	1.00000	1.55276e-26	1.00000
rad2	7.43115e-27	1.00000	7.43115e-27	1.00000
rad46	8.69737e-28	1.00000	8.69737e-28	1.00000
rad1	4.74443e-28	1.00000	4.74443e-28	1.00000
rad9	2.88831e-29	1.00000	2.88831e-29	1.00000
rad8	6.31965e-31	1.00000	6.31966e-31	1.00000
rad31	2.21810e-31	1.00000	2.21810e-31	1.00000
rad10	3.22204e-32	1.00000	3.22204e-32	1.00000
rad60syn	2.23885e-32	1.00000	2.23885e-32	1.00000
Ph+Allene	5.40729e-33	1.00000	5.40729e-33	1.00000
rad14	3.11487e-33	1.00000	3.11487e-33	1.00000
PhCCH+CH3	2.21218e-33	1.00000	2.21218e-33	1.00000
rad60anti	7.20284e-34	1.00000	7.20284e-34	1.00000
rad27	1.29573e-36	1.00000	1.29573e-36	1.00000
PhCH2CCH+H	2.50797e-38	1.00000	2.50797e-38	1.00000
PhCCCH3+H	6.68593e-39	1.00000	6.68593e-39	1.00000
PAH7+H	4.62725e-39	1.00000	4.62725e-39	1.00000
rad26	2.20750e-40	1.00000	2.20750e-40	1.00000
Ph+MeAc	1.10927e-40	1.00000	1.10927e-40	1.00000
PAH3+H	4.42304e-42	1.00000	4.42304e-42	1.00000
rad59	2.28091e-42	1.00000	2.28091e-42	1.00000
rad39	6.30436e-43	1.00000	6.30436e-43	1.00000
rad50	2.56819e-44	1.00000	2.56819e-44	1.00000
rad12	5.65613e-51	1.00000	5.65613e-51	1.00000
rad5	1.52062e-51	1.00000	1.52062e-51	1.00000
rad37	1.01228e-52	1.00000	1.01228e-52	1.00000
rad52	3.81597e-53	1.00000	3.81597e-53	1.00000
rad19syn	3.78728e-55	1.00000	3.78728e-55	1.00000
rad54	3.89646e-58	1.00000	3.89646e-58	1.00000
rad51	3.56281e-58	1.00000	3.56281e-58	1.00000
rad62	1.14195e-61	1.00000	1.14195e-61	1.00000
rad70	9.35612e-62	1.00000	9.35612e-62	1.00000
rad65	3.45122e-62	1.00000	3.45122e-62	1.00000
rad43	1.94927e-62	1.00000	1.94927e-62	1.00000
rad58	1.24371e-63	1.00000	1.24371e-63	1.00000
PhcycC3H3_A+H	1.16009e-64	1.00000	1.16009e-64	1.00000
PAH10+CH3	1.15091e-64	1.00000	1.15091e-64	1.00000
rad55	7.60905e-65	1.00000	7.60905e-65	1.00000
rad47	2.83045e-66	1.00000	2.83045e-66	1.00000
rad34	1.09203e-67	1.00000	1.09203e-67	1.00000
PAH1+H	1.28412e-70	1.00000	1.28412e-70	1.00000
rad42	3.47933e-73	1.00000	3.47933e-73	1.00000
rad41	2.83893e-75	1.00000	2.83893e-75	1.00000

1000.00000 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.514849	0.514849	0.514849	0.514849
rad21	0.263695	0.778544	0.263695	0.778544
rad22	0.117269	0.895813	0.117269	0.895813
rad18	0.0921400	0.987953	0.0921401	0.987953
Indene+H	0.00731423	0.995267	0.00731423	0.995267
rad45	0.00433743	0.999605	0.00433744	0.999605
rad36	0.000270211	0.999875	0.000270211	0.999875
rad23	0.000109413	0.999984	0.000109413	0.999984
rad11	1.54505e-05	1.000000	1.54505e-05	1.000000
Benzyl+C2H2	2.68642e-07	1.00000	0.00000	1.000000
rad6	5.47668e-09	1.00000	5.47668e-09	1.000000
rad24	2.34937e-09	1.00000	2.34938e-09	1.000000
rad13	4.60074e-15	1.00000	4.60074e-15	1.000000
rad7	1.29102e-15	1.00000	1.29102e-15	1.000000
rad30	2.20755e-16	1.00000	2.20755e-16	1.000000
rad33	5.92210e-18	1.00000	5.92210e-18	1.000000
rad15	3.34954e-19	1.00000	3.34954e-19	1.000000
rad38	1.33441e-19	1.00000	1.33441e-19	1.000000
rad35	3.02525e-20	1.00000	3.02525e-20	1.000000
rad25	1.41616e-20	1.00000	1.41616e-20	1.000000

PAH9+H	1.18615e-20	1.00000	1.18615e-20	1.000000
rad3	4.80980e-21	1.00000	4.80980e-21	1.000000
rad4	2.43904e-21	1.00000	2.43904e-21	1.000000
rad28	1.47040e-25	1.00000	1.47040e-25	1.000000
rad2	6.44313e-26	1.00000	6.44313e-26	1.000000
PhCHCCH2+H	3.71868e-26	1.00000	3.71868e-26	1.000000
rad1	4.10637e-27	1.00000	4.10637e-27	1.000000
rad46	2.48488e-27	1.00000	2.48488e-27	1.000000
rad9	6.59205e-29	1.00000	6.59205e-29	1.000000
rad31	1.34002e-30	1.00000	1.34002e-30	1.000000
rad8	6.02070e-31	1.00000	6.02071e-31	1.000000
rad10	3.91258e-31	1.00000	3.91258e-31	1.000000
rad60syn	3.21196e-32	1.00000	3.21196e-32	1.000000
rad14	2.20265e-32	1.00000	2.20265e-32	1.000000
PhCCH+CH3	1.44954e-32	1.00000	1.44954e-32	1.000000
Ph+Allene	1.15819e-32	1.00000	1.15819e-32	1.000000
rad60anti	9.50512e-34	1.00000	9.50512e-34	1.000000
rad27	1.41810e-35	1.00000	1.41810e-35	1.000000
PhCCCH3+H	6.34287e-38	1.00000	6.34287e-38	1.000000
PhCH2CCH+H	5.20908e-38	1.00000	5.20908e-38	1.000000
PAH7+H	4.17426e-39	1.00000	4.17426e-39	1.000000
rad26	3.33620e-39	1.00000	3.33620e-39	1.000000
Ph+MeAc	6.10194e-40	1.00000	6.10195e-40	1.000000
PAH3+H	3.34889e-42	1.00000	3.34889e-42	1.000000
rad39	3.25265e-42	1.00000	3.25265e-42	1.000000
rad59	1.73719e-42	1.00000	1.73719e-42	1.000000
rad50	8.62377e-44	1.00000	8.62377e-44	1.000000
rad12	1.95162e-50	1.00000	1.95162e-50	1.000000
rad5	1.19001e-50	1.00000	1.19001e-50	1.000000
rad37	1.83366e-52	1.00000	1.83366e-52	1.000000
rad52	1.49761e-52	1.00000	1.49761e-52	1.000000
rad19syn	1.56136e-54	1.00000	1.56136e-54	1.000000
rad51	1.54265e-57	1.00000	1.54265e-57	1.000000
rad54	1.22700e-57	1.00000	1.22700e-57	1.000000
rad62	6.19980e-61	1.00000	6.19980e-61	1.000000
rad43	1.55286e-61	1.00000	1.55286e-61	1.000000
rad65	1.52399e-61	1.00000	1.52399e-61	1.000000
rad70	1.42849e-61	1.00000	1.42849e-61	1.000000
rad58	2.03140e-63	1.00000	2.03140e-63	1.000000
PAH10+CH3	6.86880e-64	1.00000	6.86880e-64	1.000000
PhcycC3H3_A+H	4.06829e-64	1.00000	4.06829e-64	1.000000
rad55	2.32734e-64	1.00000	2.32734e-64	1.000000
rad47	1.10799e-65	1.00000	1.10799e-65	1.000000
rad34	1.33816e-67	1.00000	1.33816e-67	1.000000
PAH1+H	6.11344e-70	1.00000	6.11344e-70	1.000000
rad42	1.38473e-72	1.00000	1.38473e-72	1.000000
rad41	1.83973e-74	1.00000	1.83973e-74	1.000000

1000.00000 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.31816e-70 (1.00)	2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.455714	0.455714	0.455715	0.455715
rad21	0.254053	0.709767	0.254053	0.709768
rad22	0.161498	0.871265	0.161498	0.871266
rad18	0.110100	0.981365	0.110100	0.981366
Indene+H	0.0119358	0.993301	0.0119359	0.993302
rad45	0.00608952	0.999390	0.00608952	0.999391
rad36	0.000378977	0.999769	0.000378977	0.999770
rad23	0.000207265	0.999977	0.000207265	0.999978
rad11	2.32646e-05	1.000000	2.32646e-05	1.000000
Benzyl+C2H2	4.58400e-07	1.00000	0.00000	1.00000
rad6	1.14369e-08	1.00000	1.14369e-08	1.00000
rad24	1.33100e-09	1.00000	1.33100e-09	1.00000
rad13	1.17470e-14	1.00000	1.17470e-14	1.00000
rad7	3.71876e-15	1.00000	3.71876e-15	1.00000
rad30	5.20809e-16	1.00000	5.20809e-16	1.00000
rad33	1.48918e-17	1.00000	1.48918e-17	1.00000
rad15	7.78316e-19	1.00000	7.78316e-19	1.00000
rad38	3.61470e-19	1.00000	3.61470e-19	1.00000
rad35	9.99969e-20	1.00000	9.99970e-20	1.00000
PAH9+H	4.01669e-20	1.00000	4.01669e-20	1.00000
rad25	3.64540e-20	1.00000	3.64540e-20	1.00000
rad3	1.83395e-20	1.00000	1.83395e-20	1.00000
rad4	9.29851e-21	1.00000	9.29851e-21	1.00000
rad28	5.73728e-25	1.00000	5.73728e-25	1.00000

rad2	3.34982e-25	1.00000	3.34982e-25	1.00000
PhCHCCH2+H	9.30865e-26	1.00000	9.30865e-26	1.00000
rad1	2.13544e-26	1.00000	2.13544e-26	1.00000
rad46	7.48790e-27	1.00000	7.48791e-27	1.00000
rad9	1.64308e-28	1.00000	1.64308e-28	1.00000
rad31	5.18941e-30	1.00000	5.18941e-30	1.00000
rad10	2.66403e-30	1.00000	2.66403e-30	1.00000
rad8	8.24942e-31	1.00000	8.24943e-31	1.00000
rad14	1.09744e-31	1.00000	1.09744e-31	1.00000
PhCCH+CH3	7.06156e-32	1.00000	7.06157e-32	1.00000
rad60syn	5.48417e-32	1.00000	5.48417e-32	1.00000
Ph+Allene	2.92619e-32	1.00000	2.92619e-32	1.00000
rad60anti	1.54013e-33	1.00000	1.54013e-33	1.00000
rad27	9.42511e-35	1.00000	9.42511e-35	1.00000
PhCCCH3+H	4.07360e-37	1.00000	4.07360e-37	1.00000
PhCH2CCH+H	1.35870e-37	1.00000	1.35870e-37	1.00000
rad26	2.85680e-38	1.00000	2.85680e-38	1.00000
PAH7+H	7.68663e-39	1.00000	7.68663e-39	1.00000
Ph+MeAc	2.94568e-39	1.00000	2.94568e-39	1.00000
rad39	1.47893e-41	1.00000	1.47893e-41	1.00000
PAH3+H	3.95796e-42	1.00000	3.95796e-42	1.00000
rad59	2.05698e-42	1.00000	2.05698e-42	1.00000
rad50	4.23047e-43	1.00000	4.23048e-43	1.00000
rad12	1.55722e-49	1.00000	1.55722e-49	1.00000
rad5	8.05646e-50	1.00000	8.05647e-50	1.00000
rad52	9.41941e-52	1.00000	9.41941e-52	1.00000
rad37	8.24117e-52	1.00000	8.24118e-52	1.00000
rad19syn	6.85987e-54	1.00000	6.85988e-54	1.00000
rad51	1.10908e-56	1.00000	1.10908e-56	1.00000
rad54	4.68807e-57	1.00000	4.68807e-57	1.00000
rad62	3.51933e-60	1.00000	3.51934e-60	1.00000
rad43	1.18744e-60	1.00000	1.18745e-60	1.00000
rad65	9.82038e-61	1.00000	9.82039e-61	1.00000
rad70	3.29084e-61	1.00000	3.29084e-61	1.00000
PAH10+CH3	6.18699e-63	1.00000	6.18699e-63	1.00000
rad58	4.54916e-63	1.00000	4.54916e-63	1.00000
PhcycC3H3_A+H	1.71040e-63	1.00000	1.71040e-63	1.00000
rad55	9.13355e-64	1.00000	9.13356e-64	1.00000
rad47	7.77669e-65	1.00000	7.77669e-65	1.00000
rad34	2.72649e-67	1.00000	2.72649e-67	1.00000
PAH1+H	3.55154e-69	1.00000	3.55154e-69	1.00000
rad42	6.88507e-72	1.00000	6.88507e-72	1.00000
rad41	1.39776e-73	1.00000	1.39776e-73	1.00000

1000.00000 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.44107e-61 (1.00)	8.44106e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.408146	0.408146	0.408146	0.408146
rad21	0.238469	0.646615	0.238469	0.646615
rad22	0.202477	0.849092	0.202477	0.849092
rad18	0.124901	0.973993	0.124901	0.973993
Indene+H	0.0173740	0.991367	0.0173740	0.991367
rad45	0.00778184	0.999149	0.00778184	0.999149
rad36	0.000483830	0.999633	0.000483831	0.999633
rad23	0.000335405	0.999968	0.000335405	0.999968
rad11	3.19323e-05	1.00000	3.19323e-05	1.00000
Benzyl+C2H2	7.49480e-07	1.00000	0.00000	1.00000
rad6	2.06264e-08	1.00000	2.06264e-08	1.00000
rad24	8.95133e-10	1.00000	8.95133e-10	1.00000
rad13	2.45961e-14	1.00000	2.45962e-14	1.00000
rad7	8.80810e-15	1.00000	8.80810e-15	1.00000
rad30	1.27917e-15	1.00000	1.27918e-15	1.00000
rad33	3.08959e-17	1.00000	3.08960e-17	1.00000
rad15	1.92899e-18	1.00000	1.92899e-18	1.00000
rad38	9.72189e-19	1.00000	9.72190e-19	1.00000
rad35	2.83330e-19	1.00000	2.83330e-19	1.00000
PAH9+H	1.20122e-19	1.00000	1.20122e-19	1.00000
rad25	9.91513e-20	1.00000	9.91513e-20	1.00000
rad3	5.62622e-20	1.00000	5.62623e-20	1.00000
rad4	2.85315e-20	1.00000	2.85315e-20	1.00000
rad28	2.06037e-24	1.00000	2.06037e-24	1.00000
rad2	1.39129e-24	1.00000	1.39129e-24	1.00000
PhCHCCH2+H	2.62918e-25	1.00000	2.62918e-25	1.00000
rad1	8.88020e-26	1.00000	8.88021e-26	1.00000
rad46	2.56791e-26	1.00000	2.56791e-26	1.00000

rad9	4.74253e-28	1.00000	4.74253e-28	1.00000
rad31	1.63134e-29	1.00000	1.63134e-29	1.00000
rad10	1.42182e-29	1.00000	1.42182e-29	1.00000
rad8	1.55371e-30	1.00000	1.55371e-30	1.00000
rad14	4.97256e-31	1.00000	4.97256e-31	1.00000
PhCCH+CH3	3.23921e-31	1.00000	3.23921e-31	1.00000
rad60syn	1.15120e-31	1.00000	1.15120e-31	1.00000
Ph+Allene	8.92375e-32	1.00000	8.92376e-32	1.00000
rad60anti	3.13217e-33	1.00000	3.13217e-33	1.00000
rad27	5.22856e-34	1.00000	5.22856e-34	1.00000
PhCCCH3+H	2.34919e-36	1.00000	2.34920e-36	1.00000
PhCH2CCH+H	4.41738e-37	1.00000	4.41739e-37	1.00000
rad26	1.98240e-37	1.00000	1.98240e-37	1.00000
PAH7+H	2.70508e-38	1.00000	2.70508e-38	1.00000
Ph+MeAc	1.47594e-38	1.00000	1.47595e-38	1.00000
rad39	6.85202e-41	1.00000	6.85202e-41	1.00000
PAH3+H	6.89811e-42	1.00000	6.89811e-42	1.00000
rad59	3.58218e-42	1.00000	3.58218e-42	1.00000
rad50	2.90728e-42	1.00000	2.90729e-42	1.00000
rad12	1.38502e-48	1.00000	1.38502e-48	1.00000
rad5	5.65328e-49	1.00000	5.65329e-49	1.00000
rad52	8.91643e-51	1.00000	8.91644e-51	1.00000
rad37	6.33315e-51	1.00000	6.33315e-51	1.00000
rad19syn	3.47822e-53	1.00000	3.47823e-53	1.00000
rad51	1.25656e-55	1.00000	1.25656e-55	1.00000
rad54	2.20910e-56	1.00000	2.20910e-56	1.00000
rad62	2.33168e-59	1.00000	2.33168e-59	1.00000
rad65	1.03877e-59	1.00000	1.03877e-59	1.00000
rad43	1.01649e-59	1.00000	1.01649e-59	1.00000
rad70	1.08011e-60	1.00000	1.08011e-60	1.00000
PAH10+CH3	7.94094e-62	1.00000	7.94094e-62	1.00000
rad58	1.52790e-62	1.00000	1.52790e-62	1.00000
PhcycC3H3_A+H	8.93550e-63	1.00000	8.93551e-63	1.00000
rad55	4.57902e-63	1.00000	4.57902e-63	1.00000
rad47	9.48641e-64	1.00000	9.48641e-64	1.00000
rad34	8.99245e-67	1.00000	8.99245e-67	1.00000
PAH1+H	2.87838e-68	1.00000	2.87838e-68	1.00000
rad42	4.43251e-71	1.00000	4.43251e-71	1.00000
rad41	1.36849e-72	1.00000	1.36849e-72	1.00000

1000.00000 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.61998e-54 (1.00)	5.61998e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.367637	0.367637	0.367638	0.367638
rad22	0.240216	0.607853	0.240216	0.607854
rad21	0.220883	0.828736	0.220883	0.828737
rad18	0.137154	0.965890	0.137155	0.965892
Indene+H	0.0235783	0.989468	0.0235783	0.989470
rad45	0.00940986	0.998878	0.00940987	0.998880
rad36	0.000584540	0.999463	0.000584541	0.999465
rad23	0.000494111	0.999957	0.000494112	0.999959
rad11	4.15250e-05	0.999998	4.15251e-05	1.00000
Benzyl+C2H2	1.18404e-06	1.000000	0.000000	1.00000
rad6	3.41894e-08	1.000000	3.41894e-08	1.00000
rad24	6.75519e-10	1.000000	6.75520e-10	1.00000
rad13	4.58938e-14	1.000000	4.58939e-14	1.00000
rad7	1.87026e-14	1.000000	1.87026e-14	1.00000
rad30	3.51516e-15	1.000000	3.51516e-15	1.00000
rad33	5.73285e-17	1.000000	5.73286e-17	1.00000
rad15	5.51402e-18	1.000000	5.51403e-18	1.00000
rad38	2.73396e-18	1.000000	2.73397e-18	1.00000
rad35	7.36078e-19	1.000000	7.36079e-19	1.00000
PAH9+H	3.40136e-19	1.000000	3.40136e-19	1.00000
rad25	3.10368e-19	1.000000	3.10368e-19	1.00000
rad3	1.54131e-19	1.000000	1.54131e-19	1.00000
rad4	7.81928e-20	1.000000	7.81929e-20	1.00000
rad28	7.66436e-24	1.000000	7.66437e-24	1.00000
rad2	5.26044e-24	1.000000	5.26045e-24	1.00000
PhCHCCH2+H	9.03065e-25	1.000000	9.03067e-25	1.00000
rad1	3.36386e-25	1.000000	3.36386e-25	1.00000
rad46	1.04862e-25	1.000000	1.04862e-25	1.00000
rad9	1.69354e-27	1.000000	1.69354e-27	1.00000
rad10	6.98613e-29	1.000000	6.98614e-29	1.00000
rad31	4.61201e-29	1.000000	4.61201e-29	1.00000
rad8	4.10428e-30	1.000000	4.10428e-30	1.00000

rad14	2.36526e-30	1.000000	2.36527e-30	1.00000
PhCCH+CH3	1.60758e-30	1.000000	1.60758e-30	1.00000
Ph+Allene	3.45209e-31	1.000000	3.45209e-31	1.00000
rad60syn	3.12528e-31	1.000000	3.12528e-31	1.00000
rad60anti	8.36151e-33	1.000000	8.36152e-33	1.00000
rad27	2.85898e-33	1.000000	2.85898e-33	1.00000
PhCCCH3+H	1.42681e-35	1.000000	1.42681e-35	1.00000
PhCH2CCH+H	1.85705e-36	1.000000	1.85706e-36	1.00000
rad26	1.34791e-36	1.000000	1.34791e-36	1.00000
PAH7+H	1.62207e-37	1.000000	1.62207e-37	1.00000
Ph+MeAc	8.57658e-38	1.000000	8.57659e-38	1.00000
rad39	3.61865e-40	1.000000	3.61865e-40	1.00000
rad50	2.74200e-41	1.000000	2.74201e-41	1.00000
PAH3+H	1.76650e-41	1.000000	1.76650e-41	1.00000
rad59	9.15037e-42	1.000000	9.15038e-42	1.00000
rad12	1.35991e-47	1.000000	1.35992e-47	1.00000
rad5	4.62115e-48	1.000000	4.62115e-48	1.00000
rad52	1.23185e-49	1.000000	1.23185e-49	1.00000
rad37	6.92474e-50	1.000000	6.92475e-50	1.00000
rad19syn	2.18426e-52	1.000000	2.18426e-52	1.00000
rad51	2.17852e-54	1.000000	2.17853e-54	1.00000
rad54	1.34131e-55	1.000000	1.34131e-55	1.00000
rad62	1.96211e-58	1.000000	1.96211e-58	1.00000
rad65	1.82034e-58	1.000000	1.82034e-58	1.00000
rad43	1.08092e-58	1.000000	1.08092e-58	1.00000
rad70	5.25237e-60	1.000000	5.25238e-60	1.00000
PAH10+CH3	1.45392e-60	1.000000	1.45392e-60	1.00000
rad58	1.14384e-61	1.000000	1.14384e-61	1.00000
PhcycC3H3_A+H	6.08696e-62	1.000000	6.08697e-62	1.00000
rad55	3.03492e-62	1.000000	3.03493e-62	1.00000
rad47	1.93394e-62	1.000000	1.93395e-62	1.00000
rad34	6.05574e-66	1.000000	6.05575e-66	1.00000
PAH1+H	4.10909e-67	1.000000	4.10909e-67	1.00000
rad42	3.91682e-70	1.000000	3.91683e-70	1.00000
rad41	1.88127e-71	1.000000	1.88127e-71	1.00000

1000.00000 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.28864e-49 (1.00)	7.28863e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad20	0.331953	0.331953	0.331953	0.331953
rad22	0.274933	0.606886	0.274933	0.606886
rad21	0.202955	0.809841	0.202956	0.809842
rad18	0.147232	0.957073	0.147232	0.957074
Indene+H	0.0305288	0.987602	0.0305288	0.987603
rad45	0.0109784	0.998580	0.0109784	0.998581
rad23	0.000684657	0.999265	0.000684659	0.999266
rad36	0.000681468	0.999946	0.000681469	0.999947
rad11	5.21795e-05	0.999999	5.21796e-05	1.000000
Benzyl+C2H2	1.82101e-06	1.00000	0.00000	1.000000
rad6	5.38141e-08	1.00000	5.38142e-08	1.000000
rad24	5.53134e-10	1.00000	5.53135e-10	1.000000
rad13	7.96798e-14	1.00000	7.96800e-14	1.000000
rad7	3.72931e-14	1.00000	3.72931e-14	1.000000
rad30	1.13979e-14	1.00000	1.13980e-14	1.000000
rad33	9.91949e-17	1.00000	9.91950e-17	1.000000
rad15	2.01300e-17	1.00000	2.01300e-17	1.000000
rad38	8.07253e-18	1.00000	8.07254e-18	1.000000
rad35	1.80913e-18	1.00000	1.80913e-18	1.000000
rad25	1.22435e-18	1.00000	1.22435e-18	1.000000
PAH9+H	9.33738e-19	1.00000	9.33740e-19	1.000000
rad3	3.98517e-19	1.00000	3.98518e-19	1.000000
rad4	2.02283e-19	1.00000	2.02283e-19	1.000000
rad28	3.18278e-23	1.00000	3.18278e-23	1.000000
rad2	1.94974e-23	1.00000	1.94974e-23	1.000000
PhCHCCH2+H	4.30717e-24	1.00000	4.30717e-24	1.000000
rad1	1.24971e-24	1.00000	1.24971e-24	1.000000
rad46	5.35590e-25	1.00000	5.35591e-25	1.000000
rad9	8.54071e-27	1.00000	8.54073e-27	1.000000
rad10	3.49493e-28	1.00000	3.49494e-28	1.000000
rad31	1.23796e-28	1.00000	1.23796e-28	1.000000
rad8	1.76506e-29	1.00000	1.76506e-29	1.000000
rad14	1.33834e-29	1.00000	1.33834e-29	1.000000
PhCCH+CH3	9.95007e-30	1.00000	9.95009e-30	1.000000
Ph+Allene	1.92213e-30	1.00000	1.92213e-30	1.000000
rad60syn	1.25174e-30	1.00000	1.25175e-30	1.000000

rad60anti	3.33381e-32	1.00000	3.33382e-32	1.000000
rad27	1.74375e-32	1.00000	1.74376e-32	1.000000
PhCCCH3+H	1.06839e-34	1.00000	1.06840e-34	1.000000
PhCH2CCH+H	1.13834e-35	1.00000	1.13834e-35	1.000000
rad26	1.05056e-35	1.00000	1.05057e-35	1.000000
PAH7+H	1.51258e-36	1.00000	1.51258e-36	1.000000
Ph+MeAc	6.72927e-37	1.00000	6.72928e-37	1.000000
rad39	2.54094e-39	1.00000	2.54094e-39	1.000000
rad50	3.58394e-40	1.00000	3.58395e-40	1.000000
PAH3+H	7.28455e-41	1.00000	7.28456e-41	1.000000
rad59	3.76097e-41	1.00000	3.76098e-41	1.000000
rad12	1.70659e-46	1.00000	1.70660e-46	1.000000
rad5	5.16144e-47	1.00000	5.16145e-47	1.000000
rad52	2.47575e-48	1.00000	2.47576e-48	1.000000
rad37	1.04930e-48	1.00000	1.04930e-48	1.000000
rad19syn	1.94605e-51	1.00000	1.94606e-51	1.000000
rad51	5.70101e-53	1.00000	5.70102e-53	1.000000
rad54	1.18695e-54	1.00000	1.18695e-54	1.000000
rad65	5.09260e-57	1.00000	5.09261e-57	1.000000
rad62	2.43214e-57	1.00000	2.43214e-57	1.000000
rad43	1.67047e-57	1.00000	1.67047e-57	1.000000
rad70	4.72562e-59	1.00000	4.72562e-59	1.000000
PAH10+CH3	3.90138e-59	1.00000	3.90138e-59	1.000000
rad58	2.54999e-60	1.00000	2.54999e-60	1.000000
rad47	6.34193e-61	1.00000	6.34195e-61	1.000000
PhcycC3H3_A+H	6.15797e-61	1.00000	6.15798e-61	1.000000
rad55	3.01338e-61	1.00000	3.01339e-61	1.000000
rad34	1.24521e-64	1.00000	1.24521e-64	1.000000
PAH1+H	1.24075e-65	1.00000	1.24075e-65	1.000000
rad42	5.60746e-69	1.00000	5.60747e-69	1.000000
rad41	4.26248e-70	1.00000	4.26249e-70	1.000000

1000.00000 Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.85154e-45 (1.00)	6.85152e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.306873	0.306873	0.306874	0.306874
rad20	0.299862	0.606735	0.299863	0.606737
rad21	0.185420	0.792155	0.185421	0.792158
rad18	0.155373	0.947528	0.155373	0.947531
Indene+H	0.0382253	0.985753	0.0382254	0.985756
rad45	0.0124947	0.998248	0.0124948	0.998251
rad23	0.000909317	0.999157	0.000909319	0.999161
rad36	0.000775124	0.999932	0.000775126	0.999936
rad11	6.40781e-05	0.999997	6.40783e-05	1.000000
Benzyl+C2H2	2.74193e-06	0.999999	0.000000	1.000000
rad6	8.19977e-08	0.999999	8.19979e-08	1.000000
rad24	4.80493e-10	0.999999	4.80494e-10	1.000000
rad13	1.31979e-13	0.999999	1.31980e-13	1.000000
rad7	7.18235e-14	0.999999	7.18237e-14	1.000000
rad30	4.20357e-14	0.999999	4.20358e-14	1.000000
rad33	1.63948e-16	0.999999	1.63948e-16	1.000000
rad15	9.92194e-17	0.999999	9.92197e-17	1.000000
rad38	2.41132e-17	0.999999	2.41133e-17	1.000000
rad25	6.18405e-18	0.999999	6.18407e-18	1.000000
rad35	4.28196e-18	0.999999	4.28197e-18	1.000000
PAH9+H	2.49537e-18	0.999999	2.49538e-18	1.000000
rad3	1.00390e-18	0.999999	1.00390e-18	1.000000
rad4	5.09906e-19	0.999999	5.09907e-19	1.000000
rad28	1.48792e-22	0.999999	1.48792e-22	1.000000
rad2	7.39077e-23	0.999999	7.39079e-23	1.000000
PhCHCCH2+H	3.49422e-23	0.999999	3.49423e-23	1.000000
rad1	4.75014e-24	0.999999	4.75015e-24	1.000000
rad46	3.57068e-24	0.999999	3.57069e-24	1.000000
rad9	7.78561e-26	0.999999	7.78564e-26	1.000000
rad10	1.89358e-27	0.999999	1.89358e-27	1.000000
rad31	3.25365e-28	0.999999	3.25366e-28	1.000000
rad8	2.04318e-28	0.999999	2.04319e-28	1.000000
rad14	9.76687e-29	0.999999	9.76689e-29	1.000000
PhCCH+CH3	8.79559e-29	0.999999	8.79562e-29	1.000000
Ph+Allene	2.00152e-29	0.999999	2.00153e-29	1.000000
rad60syn	1.04580e-29	0.999999	1.04580e-29	1.000000
rad60anti	2.81939e-31	0.999999	2.81940e-31	1.000000
rad27	1.28198e-31	0.999999	1.28199e-31	1.000000
PhCCCH3+H	1.16062e-33	0.999999	1.16063e-33	1.000000
PhCH2CCH+H	1.32081e-34	0.999999	1.32081e-34	1.000000

rad26	1.06908e-34	0.999999	1.06908e-34	1.000000
PAH7+H	2.14968e-35	0.999999	2.14968e-35	1.000000
Ph+MeAc	9.08560e-36	0.999999	9.08563e-36	1.000000
rad39	3.02791e-38	0.999999	3.02792e-38	1.000000
rad50	6.70096e-39	0.999999	6.70098e-39	1.000000
PAH3+H	6.57805e-40	0.999999	6.57807e-40	1.000000
rad59	3.38985e-40	0.999999	3.38986e-40	1.000000
rad12	3.34186e-45	0.999999	3.34187e-45	1.000000
rad5	1.02825e-45	0.999999	1.02825e-45	1.000000
rad52	7.37721e-47	0.999999	7.37723e-47	1.000000
rad37	2.28840e-47	0.999999	2.28841e-47	1.000000
rad19syn	3.20992e-50	0.999999	3.20993e-50	1.000000
rad51	2.27124e-51	0.999999	2.27125e-51	1.000000
rad54	1.98577e-53	0.999999	1.98577e-53	1.000000
rad65	2.24311e-55	0.999999	2.24311e-55	1.000000
rad62	5.86223e-56	0.999999	5.86225e-56	1.000000
rad43	4.95387e-56	0.999999	4.95388e-56	1.000000
PAH10+CH3	1.59268e-57	0.999999	1.59269e-57	1.000000
rad70	1.11675e-57	0.999999	1.11675e-57	1.000000
rad58	1.21013e-58	0.999999	1.21014e-58	1.000000
rad47	3.31217e-59	0.999999	3.31218e-59	1.000000
PhcycC3H3_A+H	1.21505e-59	0.999999	1.21506e-59	1.000000
rad55	5.87494e-60	0.999999	5.87495e-60	1.000000
rad34	6.62923e-63	0.999999	6.62925e-63	1.000000
PAH1+H	7.31529e-64	0.999999	7.31531e-64	1.000000
rad42	1.79133e-67	0.999999	1.79134e-67	1.000000
rad41	2.10696e-68	0.999999	2.10697e-68	1.000000

1000.00000 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02671e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.336257	0.336257	0.336258	0.336258
rad20	0.270635	0.606892	0.270636	0.606894
rad21	0.168609	0.775501	0.168610	0.775504
rad18	0.161735	0.937236	0.161735	0.937239
Indene+H	0.0466801	0.983916	0.0466803	0.983919
rad45	0.0139656	0.997882	0.0139657	0.997885
rad23	0.00117136	0.999053	0.00117136	0.999056
rad36	0.000865993	0.999919	0.000865996	0.999922
rad11	7.74398e-05	0.999996	7.74401e-05	1.000000
Benzyl+C2H2	4.05863e-06	1.00000	0.00000	1.000000
rad6	1.22430e-07	1.00000	1.22431e-07	1.000000
rad24	4.35792e-10	1.00000	4.35794e-10	1.000000
rad13	2.11789e-13	1.00000	2.11790e-13	1.000000
rad30	1.56800e-13	1.00000	1.56800e-13	1.000000
rad7	1.36039e-13	1.00000	1.36039e-13	1.000000
rad15	5.74453e-16	1.00000	5.74456e-16	1.000000
rad33	2.62678e-16	1.00000	2.62679e-16	1.000000
rad38	6.98112e-17	1.00000	6.98115e-17	1.000000
rad25	3.48043e-17	1.00000	3.48044e-17	1.000000
rad35	9.87585e-18	1.00000	9.87589e-18	1.000000
PAH9+H	6.49136e-18	1.00000	6.49139e-18	1.000000
rad3	2.50830e-18	1.00000	2.50831e-18	1.000000
rad4	1.27502e-18	1.00000	1.27503e-18	1.000000
rad28	7.37565e-22	1.00000	7.37568e-22	1.000000
PhCHCCH2+H	4.81706e-22	1.00000	4.81708e-22	1.000000
rad2	2.91615e-22	1.00000	2.91617e-22	1.000000
rad46	2.99416e-23	1.00000	2.99417e-23	1.000000
rad1	1.88006e-23	1.00000	1.88007e-23	1.000000
rad9	1.45953e-24	1.00000	1.45953e-24	1.000000
rad8	1.13646e-26	1.00000	1.13646e-26	1.000000
rad10	1.13333e-26	1.00000	1.13333e-26	1.000000
PhCCH+CH3	1.08927e-27	1.00000	1.08927e-27	1.000000
rad14	8.73520e-28	1.00000	8.73524e-28	1.000000
rad31	8.51556e-28	1.00000	8.51560e-28	1.000000
Ph+Allene	5.12941e-28	1.00000	5.12943e-28	1.000000
rad60syn	3.08068e-28	1.00000	3.08069e-28	1.000000
rad60anti	8.67366e-30	1.00000	8.67370e-30	1.000000
rad27	1.12514e-30	1.00000	1.12514e-30	1.000000
PhCCCH3+H	1.86839e-32	1.00000	1.86839e-32	1.000000
PhCH2CCH+H	3.85427e-33	1.00000	3.85429e-33	1.000000
rad26	1.45315e-33	1.00000	1.45316e-33	1.000000
PAH7+H	4.89070e-34	1.00000	4.89072e-34	1.000000
Ph+MeAc	2.53599e-34	1.00000	2.53600e-34	1.000000
rad39	7.36994e-37	1.00000	7.36997e-37	1.000000

rad50	1.83605e-37	1.00000	1.83605e-37	1.000000
PAH3+H	2.18486e-38	1.00000	2.18487e-38	1.000000
rad59	1.12934e-38	1.00000	1.12935e-38	1.000000
rad12	1.16365e-43	1.00000	1.16366e-43	1.000000
rad5	4.64323e-44	1.00000	4.64325e-44	1.000000
rad52	3.30661e-45	1.00000	3.30663e-45	1.000000
rad37	7.56025e-46	1.00000	7.56028e-46	1.000000
rad19syn	1.29653e-48	1.00000	1.29654e-48	1.000000
rad51	1.38787e-49	1.00000	1.38788e-49	1.000000
rad54	8.25261e-52	1.00000	8.25264e-52	1.000000
rad65	1.55142e-53	1.00000	1.55143e-53	1.000000
rad43	3.69300e-54	1.00000	3.69302e-54	1.000000
rad62	3.63242e-54	1.00000	3.63244e-54	1.000000
PAH10+CH3	1.02125e-55	1.00000	1.02126e-55	1.000000
rad70	6.67253e-56	1.00000	6.67256e-56	1.000000
rad58	9.60187e-57	1.00000	9.60191e-57	1.000000
rad47	2.74428e-57	1.00000	2.74429e-57	1.000000
PhcycC3H3_A+H	6.03987e-58	1.00000	6.03990e-58	1.000000
rad55	2.89074e-58	1.00000	2.89075e-58	1.000000
rad34	6.45380e-61	1.00000	6.45383e-61	1.000000
PAH1+H	7.33548e-62	1.00000	7.33551e-62	1.000000
rad42	1.60506e-65	1.00000	1.60506e-65	1.000000
rad41	2.90485e-66	1.00000	2.90486e-66	1.000000

1000.00000 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04929e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.363258	0.363258	0.363260	0.363260
rad20	0.243812	0.607070	0.243813	0.607073
rad18	0.166424	0.773494	0.166425	0.773498
rad21	0.152671	0.926165	0.152672	0.926170
Indene+H	0.0559111	0.982076	0.0559114	0.982081
rad45	0.0153965	0.997473	0.0153966	0.997478
rad23	0.00147505	0.998948	0.00147506	0.998953
rad36	0.000954469	0.999902	0.000954475	0.999908
rad11	9.25154e-05	0.999995	9.25159e-05	1.00000
Benzyl+C2H2	5.92276e-06	1.00000	0.00000	1.00000
rad6	1.80554e-07	1.00000	1.80555e-07	1.00000
rad24	4.07937e-10	1.00000	4.07939e-10	1.00000
rad30	5.40035e-13	1.00000	5.40038e-13	1.00000
rad13	3.32482e-13	1.00000	3.32484e-13	1.00000
rad7	2.56370e-13	1.00000	2.56372e-13	1.00000
rad15	3.17516e-15	1.00000	3.17518e-15	1.00000
rad33	4.11812e-16	1.00000	4.11815e-16	1.00000
rad38	1.91343e-16	1.00000	1.91344e-16	1.00000
rad25	1.85968e-16	1.00000	1.85969e-16	1.00000
rad35	2.23778e-17	1.00000	2.23779e-17	1.00000
PAH9+H	1.64570e-17	1.00000	1.64571e-17	1.00000
rad3	6.27011e-18	1.00000	6.27015e-18	1.00000
rad4	3.19006e-18	1.00000	3.19007e-18	1.00000
PhCHCCH2+H	7.60162e-21	1.00000	7.60167e-21	1.00000
rad28	3.61254e-21	1.00000	3.61256e-21	1.00000
rad2	1.19546e-21	1.00000	1.19547e-21	1.00000
rad46	2.68827e-22	1.00000	2.68829e-22	1.00000
rad1	7.73385e-23	1.00000	7.73389e-23	1.00000
rad9	3.59143e-23	1.00000	3.59145e-23	1.00000
rad8	2.68852e-24	1.00000	2.68854e-24	1.00000
rad10	7.36236e-26	1.00000	7.36240e-26	1.00000
Ph+Allene	3.08114e-26	1.00000	3.08116e-26	1.00000
rad60syn	2.92334e-26	1.00000	2.92336e-26	1.00000
PhCCH+CH3	1.53977e-26	1.00000	1.53978e-26	1.00000
rad14	8.30691e-27	1.00000	8.30696e-27	1.00000
rad31	2.23657e-27	1.00000	2.23659e-27	1.00000
rad60anti	1.24752e-27	1.00000	1.24753e-27	1.00000
rad27	1.08655e-29	1.00000	1.08656e-29	1.00000
PhCCCH3+H	3.67018e-31	1.00000	3.67020e-31	1.00000
PhCH2CCH+H	2.87511e-31	1.00000	2.87513e-31	1.00000
PAH7+H	2.55120e-32	1.00000	2.55122e-32	1.00000
rad26	2.37628e-32	1.00000	2.37630e-32	1.00000
Ph+MeAc	1.21944e-32	1.00000	1.21945e-32	1.00000
rad39	2.96922e-35	1.00000	2.96924e-35	1.00000
rad50	7.27453e-36	1.00000	7.27458e-36	1.00000
PAH3+H	3.17910e-36	1.00000	3.17912e-36	1.00000
rad59	1.64932e-36	1.00000	1.64933e-36	1.00000
rad12	6.52451e-42	1.00000	6.52455e-42	1.00000

rad5	4.38760e-42	1.00000	4.38762e-42	1.00000
rad52	2.18484e-43	1.00000	2.18485e-43	1.00000
rad37	3.98823e-44	1.00000	3.98825e-44	1.00000
rad19syn	1.29469e-46	1.00000	1.29470e-46	1.00000
rad51	1.26906e-47	1.00000	1.26907e-47	1.00000
rad54	8.55603e-50	1.00000	8.55608e-50	1.00000
rad65	1.63618e-51	1.00000	1.63619e-51	1.00000
rad43	6.64658e-52	1.00000	6.64662e-52	1.00000
rad62	5.67209e-52	1.00000	5.67212e-52	1.00000
PAH10+CH3	1.05883e-53	1.00000	1.05884e-53	1.00000
rad70	7.53257e-54	1.00000	7.53261e-54	1.00000
rad58	1.17410e-54	1.00000	1.17411e-54	1.00000
rad47	3.49168e-55	1.00000	3.49170e-55	1.00000
PhcycC3H3_A+H	7.25653e-56	1.00000	7.25658e-56	1.00000
rad55	3.42707e-56	1.00000	3.42709e-56	1.00000
rad34	9.98438e-59	1.00000	9.98444e-59	1.00000
PAH1+H	1.15063e-59	1.00000	1.15064e-59	1.00000
rad42	3.75060e-63	1.00000	3.75062e-63	1.00000
rad41	1.05691e-63	1.00000	1.05691e-63	1.00000

1000.00000 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87101e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.388012	0.388012	0.388015	0.388015
rad20	0.219093	0.607105	0.219095	0.607110
rad18	0.169514	0.776619	0.169515	0.776625
rad21	0.137669	0.914288	0.137670	0.914295
Indene+H	0.0659367	0.980225	0.0659373	0.980232
rad45	0.0167910	0.997016	0.0167911	0.997023
rad23	0.00182571	0.998841	0.00182572	0.998849
rad36	0.00104084	0.999882	0.00104084	0.999890
rad11	0.000109584	0.999992	0.000109585	1.000000
Benzyl+C2H2	8.53738e-06	1.00000	0.00000	1.000000
rad6	2.64371e-07	1.00000	2.64373e-07	1.000000
rad24	3.90811e-10	1.00000	3.90814e-10	1.000000
rad30	1.66167e-12	1.00000	1.66168e-12	1.000000
rad13	5.13789e-13	1.00000	5.13793e-13	1.000000
rad7	4.84075e-13	1.00000	4.84079e-13	1.000000
rad15	1.51326e-14	1.00000	1.51328e-14	1.000000
rad25	8.75490e-16	1.00000	8.75498e-16	1.000000
rad33	6.35516e-16	1.00000	6.35521e-16	1.000000
rad38	4.93839e-16	1.00000	4.93843e-16	1.000000
rad35	5.00793e-17	1.00000	5.00797e-17	1.000000
PAH9+H	4.07688e-17	1.00000	4.07692e-17	1.000000
rad3	1.57203e-17	1.00000	1.57204e-17	1.000000
rad4	8.00600e-18	1.00000	8.00607e-18	1.000000
PhCHCCH2+H	1.01216e-19	1.00000	1.01217e-19	1.000000
rad28	1.67630e-20	1.00000	1.67631e-20	1.000000
rad2	5.02507e-21	1.00000	5.02511e-21	1.000000
rad46	2.19703e-21	1.00000	2.19705e-21	1.000000
rad9	7.36920e-22	1.00000	7.36927e-22	1.000000
rad1	3.26330e-22	1.00000	3.26333e-22	1.000000
rad8	1.46404e-22	1.00000	1.46405e-22	1.000000
Ph+Allene	1.57479e-24	1.00000	1.57480e-24	1.000000
rad60syn	1.41540e-24	1.00000	1.41541e-24	1.000000
rad10	5.01053e-25	1.00000	5.01057e-25	1.000000
PhCCH+CH3	2.07057e-25	1.00000	2.07059e-25	1.000000
rad60anti	8.81112e-26	1.00000	8.81120e-26	1.000000
rad14	7.53660e-26	1.00000	7.53666e-26	1.000000
rad31	5.90533e-27	1.00000	5.90538e-27	1.000000
rad27	1.05647e-28	1.00000	1.05648e-28	1.000000
PhCH2CCH+H	3.03927e-29	1.00000	3.03930e-29	1.000000
PAH7+H	9.07309e-30	1.00000	9.07317e-30	1.000000
PhCCCH3+H	7.14700e-30	1.00000	7.14707e-30	1.000000
Ph+MeAc	5.83817e-31	1.00000	5.83822e-31	1.000000
rad26	4.10058e-31	1.00000	4.10061e-31	1.000000
rad39	1.18088e-33	1.00000	1.18089e-33	1.000000
PAH3+H	7.12976e-34	1.00000	7.12982e-34	1.000000
rad59	3.69783e-34	1.00000	3.69786e-34	1.000000
rad50	3.63684e-34	1.00000	3.63687e-34	1.000000
rad5	4.98240e-40	1.00000	4.98244e-40	1.000000
rad12	4.19118e-40	1.00000	4.19122e-40	1.000000
rad52	1.84744e-41	1.00000	1.84746e-41	1.000000
rad37	3.04626e-42	1.00000	3.04628e-42	1.000000
rad19syn	1.81069e-44	1.00000	1.81071e-44	1.000000

rad51	1.50242e-45	1.00000	1.50243e-45	1.000000
rad54	1.25478e-47	1.00000	1.25479e-47	1.000000
rad65	2.26930e-49	1.00000	2.26932e-49	1.000000
rad43	1.59638e-49	1.00000	1.59640e-49	1.000000
rad62	1.23592e-49	1.00000	1.23593e-49	1.000000
PAH10+CH3	1.58453e-51	1.00000	1.58454e-51	1.000000
rad70	1.15257e-51	1.00000	1.15258e-51	1.000000
rad58	1.89113e-52	1.00000	1.89114e-52	1.000000
rad47	5.86637e-53	1.00000	5.86642e-53	1.000000
PhcycC3H3_A+H	1.22700e-53	1.00000	1.22702e-53	1.000000
rad55	5.71925e-54	1.00000	5.71930e-54	1.000000
rad34	2.05931e-56	1.00000	2.05933e-56	1.000000
PAH1+H	2.38541e-57	1.00000	2.38543e-57	1.000000
rad42	1.40188e-60	1.00000	1.40190e-60	1.000000
rad41	5.55048e-61	1.00000	5.55053e-61	1.000000

1000.00000 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.94360e-35 (1.00)	3.94356e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.410618	0.410618	0.410623	0.410623
rad20	0.196277	0.606895	0.196280	0.606903
rad18	0.171062	0.777957	0.171065	0.777968
rad21	0.123625	0.901582	0.123627	0.901595
Indene+H	0.0767704	0.978352	0.0767713	0.978366
rad45	0.0181505	0.996503	0.0181507	0.996517
rad23	0.00222970	0.998733	0.00222972	0.998747
rad36	0.00112526	0.999858	0.00112527	0.999872
rad11	0.000128952	0.999987	0.000128953	1.000000
Benzyl+C2H2	1.21705e-05	0.999999	0.000000	1.000000
rad6	3.85590e-07	0.999999	3.85595e-07	1.000000
rad24	3.80819e-10	0.999999	3.80824e-10	1.000000
rad30	4.56875e-12	0.999999	4.56881e-12	1.000000
rad7	9.18908e-13	0.999999	9.18920e-13	1.000000
rad13	7.84561e-13	0.999999	7.84570e-13	1.000000
rad15	6.10656e-14	0.999999	6.10664e-14	1.000000
rad25	3.58309e-15	0.999999	3.58313e-15	1.000000
rad38	1.20469e-15	0.999999	1.20471e-15	1.000000
rad33	9.69050e-16	0.999999	9.69062e-16	1.000000
rad35	1.11005e-16	0.999999	1.11006e-16	1.000000
PAH9+H	9.89698e-17	0.999999	9.89711e-17	1.000000
rad3	3.94815e-17	0.999999	3.94819e-17	1.000000
rad4	2.01293e-17	0.999999	2.01296e-17	1.000000
PhCHCCH2+H	1.04704e-18	0.999999	1.04705e-18	1.000000
rad28	7.25574e-20	0.999999	7.25583e-20	1.000000
rad2	2.13054e-20	0.999999	2.13057e-20	1.000000
rad46	1.51636e-20	0.999999	1.51638e-20	1.000000
rad9	1.11064e-20	0.999999	1.11065e-20	1.000000
rad8	4.39966e-21	0.999999	4.39971e-21	1.000000
rad1	1.38939e-21	0.999999	1.38941e-21	1.000000
Ph+Allene	5.28576e-23	0.999999	5.28582e-23	1.000000
rad60syn	4.09676e-23	0.999999	4.09681e-23	1.000000
rad10	3.45034e-24	0.999999	3.45038e-24	1.000000
rad60anti	3.24870e-24	0.999999	3.24874e-24	1.000000
PhCCH+CH3	2.45040e-24	0.999999	2.45043e-24	1.000000
rad14	6.22204e-25	0.999999	6.22212e-25	1.000000
rad31	1.56487e-26	0.999999	1.56489e-26	1.000000
PhCH2CCH+H	4.00110e-27	0.999999	4.00115e-27	1.000000
rad27	9.72508e-28	0.999999	9.72520e-28	1.000000
PAH7+H	7.57432e-28	0.999999	7.57441e-28	1.000000
PhCCCH3+H	1.25048e-28	0.999999	1.25050e-28	1.000000
Ph+MeAc	2.19166e-29	0.999999	2.19169e-29	1.000000
rad26	6.87883e-30	0.999999	6.87892e-30	1.000000
PAH3+H	2.34245e-31	0.999999	2.34248e-31	1.000000
rad59	1.21250e-31	0.999999	1.21251e-31	1.000000
rad39	3.74442e-32	0.999999	3.74447e-32	1.000000
rad50	2.00583e-32	0.999999	2.00586e-32	1.000000
rad5	5.43357e-38	0.999999	5.43364e-38	1.000000
rad12	2.89455e-38	0.999999	2.89459e-38	1.000000
rad52	1.74047e-39	0.999999	1.74049e-39	1.000000
rad37	3.31781e-40	0.999999	3.31785e-40	1.000000
rad19syn	3.12691e-42	0.999999	3.12695e-42	1.000000
rad51	1.99982e-43	0.999999	1.99984e-43	1.000000
rad54	2.30407e-45	0.999999	2.30410e-45	1.000000
rad43	4.21508e-47	0.999999	4.21513e-47	1.000000
rad65	3.58514e-47	0.999999	3.58518e-47	1.000000

rad62	3.12312e-47	0.999999	3.12316e-47	1.00000
PAH10+CH3	3.07009e-49	0.999999	3.07012e-49	1.00000
rad70	2.08461e-49	0.999999	2.08463e-49	1.00000
rad58	3.47118e-50	0.999999	3.47122e-50	1.00000
rad47	1.12437e-50	0.999999	1.12438e-50	1.00000
PhcycC3H3_A+H	2.58159e-51	0.999999	2.58162e-51	1.00000
rad55	1.18804e-51	0.999999	1.18805e-51	1.00000
rad34	4.88727e-54	0.999999	4.88733e-54	1.00000
PAH1+H	5.66707e-55	0.999999	5.66713e-55	1.00000
rad42	6.81323e-58	0.999999	6.81332e-58	1.00000
rad41	3.38066e-58	0.999999	3.38070e-58	1.00000

1000.00000 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.44756e-33 (1.00)	1.44753e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.431149	0.431149	0.431156	0.431156
rad20	0.175224	0.606373	0.175227	0.606383
rad18	0.171122	0.777495	0.171125	0.777508
rad21	0.110543	0.888038	0.110545	0.888053
Indene+H	0.0884157	0.976454	0.0884173	0.976470
rad45	0.0194749	0.995929	0.0194752	0.995946
rad23	0.00269450	0.998623	0.00269455	0.998640
rad36	0.00120778	0.999831	0.00120780	0.999848
rad11	0.000150945	0.999982	0.000150948	0.999999
Benzyl+C2H2	1.71706e-05	0.999999	0.00000	0.999999
rad6	5.61243e-07	1.000000	5.61253e-07	0.999999
rad24	3.75728e-10	1.000000	3.75734e-10	0.999999
rad30	1.13595e-11	1.000000	1.13597e-11	0.999999
rad7	1.75488e-12	1.000000	1.75491e-12	0.999999
rad13	1.18660e-12	1.000000	1.18662e-12	0.999999
rad15	2.11395e-13	1.000000	2.11399e-13	0.999999
rad25	1.28796e-14	1.000000	1.28798e-14	0.999999
rad38	2.79606e-15	1.000000	2.79611e-15	0.999999
rad33	1.46344e-15	1.000000	1.46346e-15	0.999999
rad35	2.43975e-16	1.000000	2.43979e-16	0.999999
PAH9+H	2.35966e-16	1.000000	2.35970e-16	0.999999
rad3	9.90186e-17	1.000000	9.90203e-17	0.999999
rad4	5.05459e-17	1.000000	5.05468e-17	0.999999
PhCHCCH2+H	8.47809e-18	1.000000	8.47824e-18	0.999999
rad28	2.92513e-19	1.000000	2.92518e-19	0.999999
rad9	1.23610e-19	1.000000	1.23612e-19	0.999999
rad2	8.97745e-20	1.000000	8.97761e-20	0.999999
rad46	8.73498e-20	1.000000	8.73513e-20	0.999999
rad8	8.23044e-20	1.000000	8.23059e-20	0.999999
rad1	5.88144e-21	1.000000	5.88154e-21	0.999999
Ph+Allene	1.17016e-21	1.000000	1.17018e-21	0.999999
rad60syn	7.57612e-22	1.000000	7.57625e-22	0.999999
rad60anti	7.29725e-23	1.000000	7.29738e-23	0.999999
PhCCH+CH3	2.50591e-23	1.000000	2.50595e-23	0.999999
rad10	2.34077e-23	1.000000	2.34081e-23	0.999999
rad14	4.61205e-24	1.000000	4.61213e-24	0.999999
PhCH2CCH+H	2.33653e-25	1.000000	2.33657e-25	0.999999
rad31	4.14860e-26	1.000000	4.14867e-26	0.999999
PAH7+H	2.80769e-26	1.000000	2.80774e-26	0.999999
rad27	8.18128e-27	1.000000	8.18142e-27	0.999999
PhCCCH3+H	1.90186e-27	1.000000	1.90189e-27	0.999999
Ph+MeAc	5.98787e-28	1.000000	5.98797e-28	0.999999
PAH3+H	1.26947e-28	1.000000	1.26949e-28	0.999999
rad26	1.19067e-28	1.000000	1.19069e-28	0.999999
rad59	6.45654e-29	1.000000	6.45665e-29	0.999999
rad50	1.04324e-30	1.000000	1.04326e-30	0.999999
rad39	8.88318e-31	1.000000	8.88333e-31	0.999999
rad12	5.16624e-36	1.000000	5.16633e-36	0.999999
rad5	4.28576e-36	1.000000	4.28583e-36	0.999999
rad52	1.50982e-37	1.000000	1.50984e-37	0.999999
rad37	9.57662e-38	1.000000	9.57679e-38	0.999999
rad19syn	4.83384e-40	1.000000	4.83392e-40	0.999999
rad51	2.46807e-41	1.000000	2.46811e-41	0.999999
rad54	3.83951e-43	1.000000	3.83958e-43	0.999999
rad43	8.94449e-45	1.000000	8.94464e-45	0.999999
rad62	6.58946e-45	1.000000	6.58957e-45	0.999999
rad65	5.30810e-45	1.000000	5.30819e-45	0.999999
PAH10+CH3	5.81479e-47	1.000000	5.81489e-47	0.999999
rad70	3.55409e-47	1.000000	3.55416e-47	0.999999
rad58	5.97024e-48	1.000000	5.97035e-48	0.999999

rad47	2.01833e-48	1.000000	2.01837e-48	0.999999
PhcycC3H3_A+H	4.96808e-49	1.000000	4.96817e-49	0.999999
rad55	2.25970e-49	1.000000	2.25974e-49	0.999999
rad34	1.09317e-51	1.000000	1.09319e-51	0.999999
PAH1+H	1.26516e-52	1.000000	1.26518e-52	0.999999
rad42	2.96554e-55	1.000000	2.96559e-55	0.999999
rad41	1.69898e-55	1.000000	1.69901e-55	0.999999

1000.00000 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27729e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.449658	0.449658	0.449669	0.449669
rad18	0.169750	0.619408	0.169754	0.619423
rad20	0.155833	0.775241	0.155837	0.775260
Indene+H	0.100863	0.876104	0.100865	0.876125
rad21	0.0984165	0.974521	0.0984188	0.974544
rad45	0.0207619	0.995282	0.0207624	0.995306
rad23	0.00322873	0.998511	0.00322881	0.998535
rad36	0.00128835	0.999799	0.00128838	0.999823
rad11	0.000175908	0.999975	0.000175913	0.999999
Benzyl+C2H2	2.39845e-05	0.999999	0.00000	0.999999
rad6	8.15937e-07	1.00000	8.15956e-07	1.00000
rad24	3.74080e-10	1.00000	3.74089e-10	1.00000
rad30	2.59031e-11	1.00000	2.59038e-11	1.00000
rad7	3.36757e-12	1.00000	3.36765e-12	1.00000
rad13	1.77987e-12	1.00000	1.77992e-12	1.00000
rad15	6.40758e-13	1.00000	6.40773e-13	1.00000
rad25	4.13166e-14	1.00000	4.13176e-14	1.00000
rad38	6.21522e-15	1.00000	6.21537e-15	1.00000
rad33	2.19186e-15	1.00000	2.19192e-15	1.00000
PAH9+H	5.53323e-16	1.00000	5.53336e-16	1.00000
rad35	5.31661e-16	1.00000	5.31673e-16	1.00000
rad3	2.47059e-16	1.00000	2.47065e-16	1.00000
rad4	1.26287e-16	1.00000	1.26290e-16	1.00000
PhCHCCH2+H	5.53617e-17	1.00000	5.53630e-17	1.00000
rad28	1.10283e-18	1.00000	1.10285e-18	1.00000
rad9	1.05454e-18	1.00000	1.05457e-18	1.00000
rad8	1.05094e-18	1.00000	1.05096e-18	1.00000
rad46	4.25916e-19	1.00000	4.25926e-19	1.00000
rad2	3.71632e-19	1.00000	3.71641e-19	1.00000
rad1	2.44695e-20	1.00000	2.44701e-20	1.00000
Ph+Allene	1.81488e-20	1.00000	1.81492e-20	1.00000
rad60syn	9.66195e-21	1.00000	9.66218e-21	1.00000
rad60anti	1.09788e-21	1.00000	1.09790e-21	1.00000
PhCCH+CH3	2.22464e-22	1.00000	2.22470e-22	1.00000
rad10	1.53576e-22	1.00000	1.53580e-22	1.00000
rad14	3.06794e-23	1.00000	3.06801e-23	1.00000
PhCH2CCH+H	7.60188e-24	1.00000	7.60206e-24	1.00000
PAH7+H	6.31576e-25	1.00000	6.31591e-25	1.00000
rad31	1.09642e-25	1.00000	1.09644e-25	1.00000
rad27	6.18008e-26	1.00000	6.18023e-26	1.00000
PhCCCH3+H	2.50825e-26	1.00000	2.50831e-26	1.00000
PAH3+H	1.60601e-26	1.00000	1.60604e-26	1.00000
Ph+MeAc	1.22555e-26	1.00000	1.22558e-26	1.00000
rad59	7.20509e-27	1.00000	7.20526e-27	1.00000
rad26	2.15260e-27	1.00000	2.15265e-27	1.00000
rad50	4.00796e-29	1.00000	4.00805e-29	1.00000
rad39	1.61762e-29	1.00000	1.61766e-29	1.00000
rad12	3.77999e-34	1.00000	3.78008e-34	1.00000
rad5	2.57224e-34	1.00000	2.57230e-34	1.00000
rad52	1.31846e-35	1.00000	1.31849e-35	1.00000
rad37	9.97540e-36	1.00000	9.97564e-36	1.00000
rad19syn	1.12337e-37	1.00000	1.12340e-37	1.00000
rad51	3.08276e-39	1.00000	3.08283e-39	1.00000
rad54	1.00761e-40	1.00000	1.00764e-40	1.00000
rad43	2.07697e-42	1.00000	2.07702e-42	1.00000
rad62	1.66926e-42	1.00000	1.66930e-42	1.00000
rad65	8.02549e-43	1.00000	8.02568e-43	1.00000
PAH10+CH3	1.30201e-44	1.00000	1.30204e-44	1.00000
rad70	7.79522e-45	1.00000	7.79541e-45	1.00000
rad58	1.05060e-45	1.00000	1.05062e-45	1.00000
rad47	3.68948e-46	1.00000	3.68957e-46	1.00000
PhcycC3H3_A+H	1.48029e-46	1.00000	1.48033e-46	1.00000
rad55	6.66415e-47	1.00000	6.66431e-47	1.00000
rad34	2.52642e-49	1.00000	2.52648e-49	1.00000

PAH1+H	2.94539e-50	1.00000	2.94546e-50	1.00000
rad42	1.54380e-52	1.00000	1.54384e-52	1.00000
rad41	9.63854e-53	1.00000	9.63877e-53	1.00000

1000.00000 Pa, 160.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	5.01169e-31 (1.00)		5.01152e-31 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

rad22	0.466187	0.466187	0.466203	0.466203
rad18	0.167015	0.633202	0.167021	0.633224
rad20	0.138026	0.771228	0.138030	0.771254
Indene+H	0.114085	0.885313	0.114089	0.885343
rad21	0.0872313	0.972544	0.0872342	0.972577
rad45	0.0220076	0.994552	0.0220083	0.994586
rad23	0.00384218	0.998394	0.00384231	0.998428
rad36	0.00136680	0.999761	0.00136684	0.999795
rad11	0.000204197	0.999965	0.000204204	0.999999
Benzyl+C2H2	3.31767e-05	0.999998	0.00000	0.999999
rad6	1.18495e-06	0.999999	1.18499e-06	1.00000
rad24	3.74879e-10	0.999999	3.74892e-10	1.00000
rad30	5.48769e-11	0.999999	5.48787e-11	1.00000
rad7	6.47784e-12	0.999999	6.47805e-12	1.00000
rad13	2.64965e-12	0.999999	2.64973e-12	1.00000
rad15	1.73476e-12	0.999999	1.73482e-12	1.00000
rad25	1.20114e-13	0.999999	1.20118e-13	1.00000
rad38	1.33060e-14	0.999999	1.33065e-14	1.00000
rad33	3.25838e-15	0.999999	3.25849e-15	1.00000
PAH9+H	1.27700e-15	0.999999	1.27704e-15	1.00000
rad35	1.14793e-15	0.999999	1.14797e-15	1.00000
rad3	6.10987e-16	0.999999	6.11008e-16	1.00000
rad4	3.12780e-16	0.999999	3.12790e-16	1.00000
PhCHCCH2+H	3.00844e-16	0.999999	3.00854e-16	1.00000
rad8	9.81938e-18	0.999999	9.81970e-18	1.00000
rad9	7.17528e-18	0.999999	7.17552e-18	1.00000
rad28	3.91035e-18	0.999999	3.91048e-18	1.00000
rad46	1.79528e-18	0.999999	1.79534e-18	1.00000
rad2	1.49859e-18	0.999999	1.49864e-18	1.00000
Ph+Allene	2.07976e-19	0.999999	2.07983e-19	1.00000
rad1	9.92146e-20	0.999999	9.92179e-20	1.00000
rad60syn	9.05487e-20	0.999999	9.05517e-20	1.00000
rad60anti	1.18646e-20	0.999999	1.18650e-20	1.00000
PhCCH+CH3	1.73246e-21	0.999999	1.73251e-21	1.00000
rad10	9.62116e-22	0.999999	9.62148e-22	1.00000
rad14	1.83710e-22	0.999999	1.83716e-22	1.00000
PhCH2CCH+H	1.55082e-22	0.999999	1.55088e-22	1.00000
PAH7+H	9.65092e-24	0.999999	9.65124e-24	1.00000
PAH3+H	4.78412e-25	0.999999	4.78428e-25	1.00000
rad27	4.16354e-25	0.999999	4.16368e-25	1.00000
rad31	2.87916e-25	0.999999	2.87925e-25	1.00000
PhCCCH3+H	2.87665e-25	0.999999	2.87674e-25	1.00000
rad59	2.01445e-25	0.999999	2.01451e-25	1.00000
Ph+MeAc	1.92261e-25	0.999999	1.92267e-25	1.00000
rad26	3.44528e-26	0.999999	3.44539e-26	1.00000
rad50	9.55588e-28	0.999999	9.55619e-28	1.00000
rad39	2.31144e-28	0.999999	2.31152e-28	1.00000
rad12	1.21702e-32	0.999999	1.21706e-32	1.00000
rad5	9.72131e-33	0.999999	9.72164e-33	1.00000
rad52	9.16635e-34	0.999999	9.16665e-34	1.00000
rad37	3.93885e-34	0.999999	3.93898e-34	1.00000
rad19syn	1.95811e-35	0.999999	1.95817e-35	1.00000
rad51	3.07539e-37	0.999999	3.07550e-37	1.00000
rad54	2.08564e-38	0.999999	2.08571e-38	1.00000
rad43	3.23062e-40	0.999999	3.23073e-40	1.00000
rad62	2.96317e-40	0.999999	2.96327e-40	1.00000
rad65	9.76155e-41	0.999999	9.76187e-41	1.00000
PAH10+CH3	2.15723e-42	0.999999	2.15730e-42	1.00000
rad70	1.61998e-42	0.999999	1.62004e-42	1.00000
rad58	1.49763e-43	0.999999	1.49768e-43	1.00000
rad47	5.40033e-44	0.999999	5.40051e-44	1.00000
PhcycC3H3_A+H	3.58690e-44	0.999999	3.58702e-44	1.00000
rad55	1.60215e-44	0.999999	1.60220e-44	1.00000
rad34	4.73186e-47	0.999999	4.73201e-47	1.00000
PAH1+H	5.58278e-48	0.999999	5.58297e-48	1.00000
rad42	5.60028e-50	0.999999	5.60047e-50	1.00000
rad41	3.69036e-50	0.999999	3.69048e-50	1.00000

1000.00000 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total	5.54821e-30 (1.00)	5.54795e-30 (1.00)
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species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.480770	0.480770	0.480792	0.480792
rad18	0.163007	0.643777	0.163014	0.643806
Indene+H	0.128039	0.771816	0.128044	0.771850
rad20	0.121736	0.893552	0.121742	0.893592
rad21	0.0769695	0.970522	0.0769730	0.970565
rad45	0.0232067	0.993728	0.0232077	0.993773
rad23	0.00454582	0.998274	0.00454603	0.998319
rad36	0.00144289	0.999717	0.00144296	0.999762
rad11	0.000236172	0.999953	0.000236183	0.999998
Benzyl+C2H2	4.54518e-05	0.999999	0.00000	0.999998
rad6	1.71843e-06	1.00000	1.71850e-06	1.000000
rad24	3.77415e-10	1.00000	3.77432e-10	1.000000
rad30	1.09197e-10	1.00000	1.09202e-10	1.000000
rad7	1.24526e-11	1.00000	1.24532e-11	1.000000
rad15	4.26798e-12	1.00000	4.26817e-12	1.000000
rad13	3.91592e-12	1.00000	3.91610e-12	1.000000
rad25	3.20563e-13	1.00000	3.20578e-13	1.000000
rad38	2.75611e-14	1.00000	2.75623e-14	1.000000
rad33	4.80958e-15	1.00000	4.80979e-15	1.000000
PAH9+H	2.90116e-15	1.00000	2.90130e-15	1.000000
rad35	2.45347e-15	1.00000	2.45358e-15	1.000000
rad3	1.49262e-15	1.00000	1.49268e-15	1.000000
PhCHCCH2+H	1.39865e-15	1.00000	1.39871e-15	1.000000
rad4	7.65364e-16	1.00000	7.65399e-16	1.000000
rad8	7.08845e-17	1.00000	7.08877e-17	1.000000
rad9	4.03260e-17	1.00000	4.03278e-17	1.000000
rad28	1.31123e-17	1.00000	1.31129e-17	1.000000
rad46	6.67957e-18	1.00000	6.67987e-18	1.000000
rad2	5.85036e-18	1.00000	5.85063e-18	1.000000
Ph+Allene	1.84598e-18	1.00000	1.84607e-18	1.000000
rad60syn	6.56697e-19	1.00000	6.56727e-19	1.000000
rad1	3.89649e-19	1.00000	3.89667e-19	1.000000
rad60anti	9.74065e-20	1.00000	9.74110e-20	1.000000
PhCCH+CH3	1.19671e-20	1.00000	1.19676e-20	1.000000
rad10	5.70480e-21	1.00000	5.70506e-21	1.000000
PhCH2CCH+H	2.25741e-21	1.00000	2.25751e-21	1.000000
rad14	9.93802e-22	1.00000	9.93847e-22	1.000000
PAH7+H	1.08211e-22	1.00000	1.08216e-22	1.000000
PAH3+H	8.80297e-24	1.00000	8.80337e-24	1.000000
rad59	3.57432e-24	1.00000	3.57448e-24	1.000000
PhCCCH3+H	2.88933e-24	1.00000	2.88946e-24	1.000000
rad27	2.50120e-24	1.00000	2.50132e-24	1.000000
Ph+MeAc	2.39857e-24	1.00000	2.39868e-24	1.000000
rad31	7.49072e-25	1.00000	7.49106e-25	1.000000
rad26	4.60191e-25	1.00000	4.60212e-25	1.000000
rad50	1.61327e-26	1.00000	1.61335e-26	1.000000
rad39	2.68098e-27	1.00000	2.68110e-27	1.000000
rad12	2.57378e-31	1.00000	2.57389e-31	1.000000
rad5	2.56492e-31	1.00000	2.56503e-31	1.000000
rad52	5.18515e-32	1.00000	5.18539e-32	1.000000
rad37	9.77062e-33	1.00000	9.77107e-33	1.000000
rad19syn	2.42685e-33	1.00000	2.42696e-33	1.000000
rad51	2.33987e-35	1.00000	2.33998e-35	1.000000
rad54	3.28909e-36	1.00000	3.28924e-36	1.000000
rad62	3.68133e-38	1.00000	3.68149e-38	1.000000
rad43	3.36801e-38	1.00000	3.36816e-38	1.000000
rad65	9.10954e-39	1.00000	9.10995e-39	1.000000
rad70	3.11687e-40	1.00000	3.11701e-40	1.000000
PAH10+CH3	2.52788e-40	1.00000	2.52799e-40	1.000000
rad58	1.69274e-41	1.00000	1.69282e-41	1.000000
PhcycC3H3_A+H	6.83137e-42	1.00000	6.83168e-42	1.000000
rad47	6.02311e-42	1.00000	6.02338e-42	1.000000
rad55	3.03296e-42	1.00000	3.03310e-42	1.000000
rad34	6.87934e-45	1.00000	6.87966e-45	1.000000
PAH1+H	8.24904e-46	1.00000	8.24941e-46	1.000000
rad42	1.39455e-47	1.00000	1.39461e-47	1.000000
rad41	9.50381e-48	1.00000	9.50424e-48	1.000000

1000.00000 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 4.69315e-29 (1.00) 4.69286e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.493439	0.493439	0.493469	0.493469
rad18	0.157833	0.651272	0.157843	0.651312
Indene+H	0.142661	0.793933	0.142670	0.793982
rad20	0.106904	0.900837	0.106910	0.900892
rad21	0.0676071	0.968444	0.0676113	0.968503
rad45	0.0243524	0.992797	0.0243539	0.992857
rad23	0.00535179	0.998148	0.00535212	0.998209
rad36	0.00151630	0.999665	0.00151640	0.999726
rad11	0.000272190	0.999937	0.000272207	0.999998
Benzyl+C2H2	6.16779e-05	0.999998	0.00000	0.999998
rad6	2.48699e-06	1.00000	2.48715e-06	1.00000
rad24	3.81158e-10	1.00000	3.81181e-10	1.00000
rad30	2.05916e-10	1.00000	2.05929e-10	1.00000
rad7	2.38433e-11	1.00000	2.38448e-11	1.00000
rad15	9.67984e-12	1.00000	9.68044e-12	1.00000
rad13	5.74597e-12	1.00000	5.74633e-12	1.00000
rad25	7.93510e-13	1.00000	7.93559e-13	1.00000
rad38	5.54321e-14	1.00000	5.54355e-14	1.00000
rad33	7.04996e-15	1.00000	7.05040e-15	1.00000
PAH9+H	6.48757e-15	1.00000	6.48797e-15	1.00000
PhCHCCH2+H	5.69270e-15	1.00000	5.69306e-15	1.00000
rad35	5.18563e-15	1.00000	5.18595e-15	1.00000
rad3	3.59135e-15	1.00000	3.59157e-15	1.00000
rad4	1.84484e-15	1.00000	1.84496e-15	1.00000
rad8	4.12634e-16	1.00000	4.12660e-16	1.00000
rad9	1.92753e-16	1.00000	1.92765e-16	1.00000
rad28	4.17787e-17	1.00000	4.17813e-17	1.00000
rad46	2.23448e-17	1.00000	2.23462e-17	1.00000
rad2	2.20111e-17	1.00000	2.20124e-17	1.00000
Ph+Allene	1.31930e-17	1.00000	1.31938e-17	1.00000
rad60syn	3.84206e-18	1.00000	3.84229e-18	1.00000
rad1	1.47558e-18	1.00000	1.47567e-18	1.00000
rad60anti	6.35277e-19	1.00000	6.35316e-19	1.00000
PhCCH+CH3	7.40440e-20	1.00000	7.40486e-20	1.00000
rad10	3.18157e-20	1.00000	3.18177e-20	1.00000
PhCH2CCH+H	2.49519e-20	1.00000	2.49534e-20	1.00000
rad14	4.87299e-21	1.00000	4.87329e-21	1.00000
PAH7+H	9.39405e-22	1.00000	9.39463e-22	1.00000
PAH3+H	1.16203e-22	1.00000	1.16210e-22	1.00000
rad59	4.57388e-23	1.00000	4.57417e-23	1.00000
PhCCCH3+H	2.55931e-23	1.00000	2.55947e-23	1.00000
Ph+MeAc	2.45261e-23	1.00000	2.45276e-23	1.00000
rad27	1.34476e-23	1.00000	1.34484e-23	1.00000
rad26	5.01669e-24	1.00000	5.01699e-24	1.00000
rad31	1.92620e-24	1.00000	1.92632e-24	1.00000
rad50	2.05416e-25	1.00000	2.05429e-25	1.00000
rad39	2.59623e-26	1.00000	2.59639e-26	1.00000
rad5	5.02464e-30	1.00000	5.02495e-30	1.00000
rad12	4.03483e-30	1.00000	4.03508e-30	1.00000
rad52	1.75872e-30	1.00000	1.75883e-30	1.00000
rad37	1.76588e-31	1.00000	1.76598e-31	1.00000
rad19syn	1.59660e-31	1.00000	1.59670e-31	1.00000
rad51	1.37287e-33	1.00000	1.37295e-33	1.00000
rad54	4.68306e-34	1.00000	4.68335e-34	1.00000
rad62	3.53470e-36	1.00000	3.53492e-36	1.00000
rad43	2.46770e-36	1.00000	2.46785e-36	1.00000
rad65	6.59749e-37	1.00000	6.59790e-37	1.00000
rad70	7.24822e-38	1.00000	7.24866e-38	1.00000
PAH10+CH3	2.23754e-38	1.00000	2.23768e-38	1.00000
rad58	1.88964e-39	1.00000	1.88975e-39	1.00000
PhcycC3H3_A+H	1.26728e-39	1.00000	1.26735e-39	1.00000
rad55	5.61337e-40	1.00000	5.61371e-40	1.00000
rad47	5.15633e-40	1.00000	5.15665e-40	1.00000
rad34	8.19586e-43	1.00000	8.19636e-43	1.00000
PAH1+H	9.97112e-44	1.00000	9.97174e-44	1.00000
rad42	2.58251e-45	1.00000	2.58267e-45	1.00000
rad41	1.76611e-45	1.00000	1.76622e-45	1.00000

1000.00000 Pa, 190.000000 K

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

Total | 3.16530e-28 (1.00) | 3.16504e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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rad22	0.504226	0.504226	0.504268	0.504268
Indene+H	0.157875	0.662101	0.157888	0.662156
rad18	0.151621	0.813722	0.151634	0.813790
rad20	0.0934671	0.907189	0.0934749	0.907265
rad21	0.0591149	0.966304	0.0591198	0.966385
rad45	0.0254369	0.991741	0.0254390	0.991824
rad23	0.00627340	0.998014	0.00627392	0.998098
rad36	0.00158665	0.999601	0.00158678	0.999684
rad11	0.000312595	0.999914	0.000312621	0.999997
Benzyl+C2H2	8.29126e-05	0.999996	0.00000	0.999997
rad6	3.58909e-06	1.00000	3.58939e-06	1.00000
rad24	3.85695e-10	1.00000	3.85727e-10	1.00000
rad30	3.70657e-10	1.00000	3.70688e-10	1.00000
rad7	4.53211e-11	1.00000	4.53248e-11	1.00000
rad15	2.04781e-11	1.00000	2.04798e-11	1.00000
rad13	8.37047e-12	1.00000	8.37117e-12	1.00000
rad25	1.83651e-12	1.00000	1.83666e-12	1.00000
rad38	1.08563e-13	1.00000	1.08572e-13	1.00000
PhCHCCH2+H	2.06704e-14	1.00000	2.06721e-14	1.00000
PAH9+H	1.42761e-14	1.00000	1.42773e-14	1.00000
rad35	1.08286e-14	1.00000	1.08295e-14	1.00000
rad33	1.02620e-14	1.00000	1.02628e-14	1.00000
rad3	8.48838e-15	1.00000	8.48909e-15	1.00000
rad4	4.36902e-15	1.00000	4.36939e-15	1.00000
rad8	2.00407e-15	1.00000	2.00424e-15	1.00000
rad9	8.02599e-16	1.00000	8.02665e-16	1.00000
rad28	1.26958e-16	1.00000	1.26968e-16	1.00000
rad2	7.95367e-17	1.00000	7.95433e-17	1.00000
Ph+Allene	7.83728e-17	1.00000	7.83793e-17	1.00000
rad46	6.82610e-17	1.00000	6.82667e-17	1.00000
rad60syn	1.87500e-17	1.00000	1.87515e-17	1.00000
rad1	5.36990e-18	1.00000	5.37035e-18	1.00000
rad60anti	3.41163e-18	1.00000	3.41191e-18	1.00000
PhCCH+CH3	4.13805e-19	1.00000	4.13840e-19	1.00000
PhCH2CCH+H	2.18803e-19	1.00000	2.18821e-19	1.00000
rad10	1.66162e-19	1.00000	1.66175e-19	1.00000
rad14	2.17280e-20	1.00000	2.17298e-20	1.00000
PAH7+H	6.58371e-21	1.00000	6.58425e-21	1.00000
PAH3+H	1.17311e-21	1.00000	1.17321e-21	1.00000
rad59	4.48208e-22	1.00000	4.48245e-22	1.00000
Ph+MeAc	2.11081e-22	1.00000	2.11099e-22	1.00000
PhCCCH3+H	2.01482e-22	1.00000	2.01499e-22	1.00000
rad27	6.50780e-23	1.00000	6.50834e-23	1.00000
rad26	4.50254e-23	1.00000	4.50292e-23	1.00000
rad31	4.88554e-24	1.00000	4.88594e-24	1.00000
rad50	2.06315e-24	1.00000	2.06333e-24	1.00000
rad39	2.15357e-25	1.00000	2.15374e-25	1.00000
rad5	7.83965e-29	1.00000	7.84030e-29	1.00000
rad12	5.10849e-29	1.00000	5.10891e-29	1.00000
rad52	3.74237e-29	1.00000	3.74268e-29	1.00000
rad19syn	5.37680e-30	1.00000	5.37725e-30	1.00000
rad37	2.60061e-30	1.00000	2.60083e-30	1.00000
rad51	8.05446e-32	1.00000	8.05513e-32	1.00000
rad54	5.09360e-32	1.00000	5.09402e-32	1.00000
rad62	3.35938e-34	1.00000	3.35966e-34	1.00000
rad43	1.45570e-34	1.00000	1.45582e-34	1.00000
rad65	4.51354e-35	1.00000	4.51391e-35	1.00000
rad70	3.22353e-35	1.00000	3.22380e-35	1.00000
PAH10+CH3	1.94812e-36	1.00000	1.94828e-36	1.00000
rad58	6.93143e-37	1.00000	6.93201e-37	1.00000
PhcycC3H3_A+H	3.36168e-37	1.00000	3.36196e-37	1.00000
rad55	1.49817e-37	1.00000	1.49829e-37	1.00000
rad47	4.04877e-38	1.00000	4.04911e-38	1.00000
rad34	1.25845e-40	1.00000	1.25856e-40	1.00000
PAH1+H	1.37042e-41	1.00000	1.37053e-41	1.00000
rad42	4.63270e-43	1.00000	4.63308e-43	1.00000
rad41	2.98683e-43	1.00000	2.98708e-43	1.00000

1000.00000 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76095e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.513167	0.513167	0.513223	0.513223
Indene+H	0.173591	0.686758	0.173610	0.686833
rad18	0.144520	0.831278	0.144536	0.831369
rad20	0.0813613	0.912639	0.0813703	0.912739

rad21	0.0514577	0.964097	0.0514633	0.964203
rad45	0.0264518	0.990549	0.0264547	0.990657
rad23	0.00732502	0.997874	0.00732583	0.997983
rad36	0.00165350	0.999527	0.00165368	0.999637
rad11	0.000357708	0.999885	0.000357747	0.999995
Benzyl+C2H2	0.000110431	0.999995	0.000000	0.999995
rad6	5.16042e-06	1.00000	5.16099e-06	1.000000
rad30	6.40627e-10	1.00000	6.40698e-10	1.000000
rad24	3.90696e-10	1.00000	3.90739e-10	1.000000
rad7	8.52478e-11	1.00000	8.52572e-11	1.000000
rad15	4.08012e-11	1.00000	4.08057e-11	1.000000
rad13	1.21040e-11	1.00000	1.21053e-11	1.000000
rad25	3.99900e-12	1.00000	3.99944e-12	1.000000
rad38	2.07516e-13	1.00000	2.07539e-13	1.000000
PhCHCCH2+H	6.79894e-14	1.00000	6.79969e-14	1.000000
PAH9+H	3.09035e-14	1.00000	3.09069e-14	1.000000
rad35	2.23219e-14	1.00000	2.23244e-14	1.000000
rad3	1.96630e-14	1.00000	1.96651e-14	1.000000
rad33	1.48314e-14	1.00000	1.48331e-14	1.000000
rad4	1.01425e-14	1.00000	1.01437e-14	1.000000
rad8	8.34601e-15	1.00000	8.34693e-15	1.000000
rad9	2.96866e-15	1.00000	2.96899e-15	1.000000
Ph+Allene	3.97163e-16	1.00000	3.97206e-16	1.000000
rad28	3.68948e-16	1.00000	3.68989e-16	1.000000
rad2	2.75308e-16	1.00000	2.75339e-16	1.000000
rad46	1.92901e-16	1.00000	1.92922e-16	1.000000
rad60syn	7.84211e-17	1.00000	7.84297e-17	1.000000
rad1	1.87312e-17	1.00000	1.87333e-17	1.000000
rad60anti	1.55303e-17	1.00000	1.55321e-17	1.000000
PhCCH+CH3	2.10326e-18	1.00000	2.10349e-18	1.000000
PhCH2CCH+H	1.57194e-18	1.00000	1.57212e-18	1.000000
rad10	8.10210e-19	1.00000	8.10300e-19	1.000000
rad14	8.83935e-20	1.00000	8.84033e-20	1.000000
PAH7+H	3.85009e-20	1.00000	3.85051e-20	1.000000
PAH3+H	9.42288e-21	1.00000	9.42392e-21	1.000000
rad59	3.49957e-21	1.00000	3.49996e-21	1.000000
Ph+MeAc	1.55890e-21	1.00000	1.55907e-21	1.000000
PhCCCH3+H	1.41750e-21	1.00000	1.41765e-21	1.000000
rad26	3.39228e-22	1.00000	3.39266e-22	1.000000
rad27	2.85365e-22	1.00000	2.85397e-22	1.000000
rad50	1.68713e-23	1.00000	1.68732e-23	1.000000
rad31	1.22012e-23	1.00000	1.22026e-23	1.000000
rad39	1.55747e-24	1.00000	1.55764e-24	1.000000
rad5	9.80636e-28	1.00000	9.80744e-28	1.000000
rad52	5.47905e-28	1.00000	5.47965e-28	1.000000
rad12	5.40788e-28	1.00000	5.40847e-28	1.000000
rad19syn	1.02988e-28	1.00000	1.02999e-28	1.000000
rad37	3.19425e-29	1.00000	3.19460e-29	1.000000
rad51	2.68270e-30	1.00000	2.68299e-30	1.000000
rad54	1.60384e-30	1.00000	1.60402e-30	1.000000
rad70	1.67229e-32	1.00000	1.67247e-32	1.000000
rad62	1.63552e-32	1.00000	1.63570e-32	1.000000
rad43	5.03825e-33	1.00000	5.03881e-33	1.000000
rad65	2.68538e-33	1.00000	2.68567e-33	1.000000
rad58	6.65370e-34	1.00000	6.65443e-34	1.000000
PAH10+CH3	9.59139e-35	1.00000	9.59244e-35	1.000000
PhcycC3H3_A+H	8.10265e-35	1.00000	8.10355e-35	1.000000
rad55	3.70072e-35	1.00000	3.70113e-35	1.000000
rad47	2.43324e-36	1.00000	2.43350e-36	1.000000
rad34	3.71335e-38	1.00000	3.71376e-38	1.000000
PAH1+H	2.12344e-39	1.00000	2.12368e-39	1.000000
rad42	6.37483e-41	1.00000	6.37554e-41	1.000000
rad41	3.55301e-41	1.00000	3.55340e-41	1.000000

1000.00000 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.30956e-27 (1.00)	8.30835e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.520299	0.520299	0.520374	0.520374
Indene+H	0.189713	0.710012	0.189740	0.710114
rad18	0.136690	0.846702	0.136710	0.846824
rad20	0.0705166	0.917219	0.0705269	0.917351
rad21	0.0445950	0.961814	0.0446015	0.961952
rad45	0.0273878	0.989201	0.0273918	0.989344
rad23	0.00852196	0.997723	0.00852320	0.997867
rad36	0.00171638	0.999440	0.00171663	0.999584

rad11	0.000407811	0.999848	0.000407870	0.999992
Benzyl+C2H2	0.000145752	0.999993	0.00000	0.999992
rad6	7.38568e-06	1.00000	7.38676e-06	0.999999
rad30	1.06826e-09	1.00000	1.06841e-09	0.999999
rad24	3.95882e-10	1.00000	3.95939e-10	0.999999
rad7	1.58214e-10	1.00000	1.58237e-10	0.999999
rad15	7.71710e-11	1.00000	7.71823e-11	0.999999
rad13	1.73700e-11	1.00000	1.73726e-11	0.999999
rad25	8.23335e-12	1.00000	8.23455e-12	0.999999
rad38	3.87865e-13	1.00000	3.87922e-13	0.999999
PhCHCCH2+H	2.05113e-13	1.00000	2.05143e-13	0.999999
PAH9+H	6.57848e-14	1.00000	6.57944e-14	0.999999
rad35	4.53893e-14	1.00000	4.53959e-14	0.999999
rad3	4.45488e-14	1.00000	4.45553e-14	0.999999
rad8	3.04727e-14	1.00000	3.04772e-14	0.999999
rad4	2.30334e-14	1.00000	2.30368e-14	0.999999
rad33	2.12787e-14	1.00000	2.12818e-14	0.999999
rad9	9.91064e-15	1.00000	9.91208e-15	0.999999
Ph+Allene	1.75393e-15	1.00000	1.75419e-15	0.999999
rad28	1.02729e-15	1.00000	1.02744e-15	0.999999
rad2	9.11037e-16	1.00000	9.11170e-16	0.999999
rad46	5.09650e-16	1.00000	5.09724e-16	0.999999
rad60syn	2.87373e-16	1.00000	2.87415e-16	0.999999
rad1	6.25055e-17	1.00000	6.25146e-17	0.999999
rad60anti	6.13617e-17	1.00000	6.13706e-17	0.999999
PhCCH+CH3	9.78043e-18	1.00000	9.78186e-18	0.999999
PhCH2CCH+H	9.50732e-18	1.00000	9.50870e-18	0.999999
rad10	3.68201e-18	1.00000	3.68255e-18	0.999999
rad14	3.29288e-19	1.00000	3.29336e-19	0.999999
PAH7+H	1.92960e-19	1.00000	1.92988e-19	0.999999
PAH3+H	6.22794e-20	1.00000	6.22885e-20	0.999999
rad59	2.25076e-20	1.00000	2.25108e-20	0.999999
Ph+MeAc	1.00519e-20	1.00000	1.00533e-20	0.999999
PhCCCH3+H	8.96671e-21	1.00000	8.96802e-21	0.999999
rad26	2.19782e-21	1.00000	2.19814e-21	0.999999
rad27	1.14161e-21	1.00000	1.14178e-21	0.999999
rad50	1.15596e-22	1.00000	1.15613e-22	0.999999
rad31	2.99592e-23	1.00000	2.99635e-23	0.999999
rad39	9.97861e-24	1.00000	9.98007e-24	0.999999
rad5	1.01329e-26	1.00000	1.01344e-26	0.999999
rad52	6.16350e-27	1.00000	6.16440e-27	0.999999
rad12	4.97185e-27	1.00000	4.97257e-27	0.999999
rad19syn	1.39210e-27	1.00000	1.39230e-27	0.999999
rad37	3.39442e-28	1.00000	3.39491e-28	0.999999
rad51	4.98468e-29	1.00000	4.98541e-29	0.999999
rad54	2.81538e-29	1.00000	2.81579e-29	0.999999
rad70	3.96572e-30	1.00000	3.96630e-30	0.999999
rad58	1.81625e-30	1.00000	1.81651e-30	0.999999
rad62	3.91711e-31	1.00000	3.91768e-31	0.999999
rad43	1.10236e-31	1.00000	1.10252e-31	0.999999
rad65	9.00753e-32	1.00000	9.00884e-32	0.999999
PhcycC3H3_A+H	1.11404e-32	1.00000	1.11421e-32	0.999999
rad55	4.67877e-33	1.00000	4.67945e-33	0.999999
PAH10+CH3	2.91172e-33	1.00000	2.91215e-33	0.999999
rad47	1.09674e-34	1.00000	1.09690e-34	0.999999
rad34	2.12674e-35	1.00000	2.12705e-35	0.999999
PAH1+H	3.85989e-37	1.00000	3.86045e-37	0.999999
rad42	7.05852e-39	1.00000	7.05955e-39	0.999999
rad41	2.91782e-39	1.00000	2.91825e-39	0.999999

1000.00000 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.40057e-26 (1.00)	3.39993e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.525661	0.525661	0.525762	0.525762
Indene+H	0.206142	0.731803	0.206181	0.731943
rad18	0.128302	0.860105	0.128327	0.860270
rad20	0.0608580	0.920963	0.0608696	0.921140
rad21	0.0384815	0.959445	0.0384889	0.959628
rad45	0.0282355	0.987680	0.0282409	0.987869
rad23	0.00988028	0.997560	0.00988217	0.997752
rad36	0.00177480	0.999335	0.00177514	0.999527
rad11	0.000463133	0.999798	0.000463221	0.999990
Benzyl+C2H2	0.000190675	0.999989	0.00000	0.999990
rad6	1.05129e-05	0.999999	1.05149e-05	1.00000
rad30	1.72548e-09	0.999999	1.72580e-09	1.00000

rad24	4.01017e-10	0.999999	4.01093e-10	1.00000
rad7	2.88974e-10	0.999999	2.89029e-10	1.00000
rad15	1.39468e-10	0.999999	1.39494e-10	1.00000
rad13	2.47316e-11	0.999999	2.47363e-11	1.00000
rad25	1.60926e-11	0.999999	1.60956e-11	1.00000
rad38	7.09977e-13	0.999999	7.10112e-13	1.00000
PhCHCCH2+H	5.73348e-13	0.999999	5.73458e-13	1.00000
PAH9+H	1.37663e-13	0.999999	1.37690e-13	1.00000
rad8	9.93377e-14	0.999999	9.93567e-14	1.00000
rad3	9.85353e-14	0.999999	9.85541e-14	1.00000
rad35	9.09821e-14	0.999999	9.09995e-14	1.00000
rad4	5.10779e-14	0.999999	5.10876e-14	1.00000
rad33	3.02969e-14	0.999999	3.03027e-14	1.00000
rad9	3.02528e-14	0.999999	3.02586e-14	1.00000
Ph+Allene	6.86976e-15	0.999999	6.87107e-15	1.00000
rad2	2.87811e-15	0.999999	2.87866e-15	1.00000
rad28	2.74439e-15	0.999999	2.74491e-15	1.00000
rad46	1.26995e-15	0.999999	1.27019e-15	1.00000
rad60syn	9.39548e-16	0.999999	9.39727e-16	1.00000
rad60anti	2.14564e-16	0.999999	2.14605e-16	1.00000
rad1	1.99266e-16	0.999999	1.99304e-16	1.00000
PhCH2CCH+H	4.94987e-17	0.999999	4.95082e-17	1.00000
PhCCH+CH3	4.18285e-17	0.999999	4.18364e-17	1.00000
rad10	1.55851e-17	0.999999	1.55880e-17	1.00000
rad14	1.12771e-18	0.999999	1.12792e-18	1.00000
PAH7+H	8.46985e-19	0.999999	8.47147e-19	1.00000
PAH3+H	3.47976e-19	0.999999	3.48042e-19	1.00000
rad59	1.22487e-19	0.999999	1.22510e-19	1.00000
Ph+MeAc	5.74283e-20	0.999999	5.74393e-20	1.00000
PhCCCH3+H	5.13186e-20	0.999999	5.13284e-20	1.00000
rad26	1.25308e-20	0.999999	1.25332e-20	1.00000
rad27	4.19446e-21	0.999999	4.19526e-21	1.00000
rad50	6.79698e-22	0.999999	6.79828e-22	1.00000
rad31	7.22335e-23	0.999999	7.22473e-23	1.00000
rad39	5.74212e-23	0.999999	5.74321e-23	1.00000
rad5	8.88987e-26	0.999999	8.89156e-26	1.00000
rad52	5.64113e-26	0.999999	5.64220e-26	1.00000
rad12	4.08701e-26	0.999999	4.08779e-26	1.00000
rad19syn	1.48107e-26	0.999999	1.48135e-26	1.00000
rad37	3.20325e-27	0.999999	3.20386e-27	1.00000
rad51	6.62444e-28	0.999999	6.62570e-28	1.00000
rad54	3.57705e-28	0.999999	3.57773e-28	1.00000
rad70	8.81856e-29	0.999999	8.82024e-29	1.00000
rad58	5.37101e-29	0.999999	5.37203e-29	1.00000
rad62	6.04673e-30	0.999999	6.04788e-30	1.00000
rad43	1.72052e-30	0.999999	1.72085e-30	1.00000
rad65	1.64607e-30	0.999999	1.64639e-30	1.00000
PhcycC3H3_A+H	3.35847e-31	0.999999	3.35911e-31	1.00000
rad55	1.23982e-31	0.999999	1.24005e-31	1.00000
PAH10+CH3	5.91655e-32	0.999999	5.91767e-32	1.00000
rad34	3.65573e-33	0.999999	3.65643e-33	1.00000
rad47	3.17089e-33	0.999999	3.17150e-33	1.00000
PAH1+H	2.93124e-35	0.999999	2.93180e-35	1.00000
rad42	4.01994e-37	0.999999	4.02070e-37	1.00000
rad41	1.28688e-37	0.999999	1.28712e-37	1.00000

1000.00000 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22941e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.529296	0.529296	0.529427	0.529427
Indene+H	0.222784	0.752080	0.222839	0.752266
rad18	0.119530	0.871610	0.119559	0.871825
rad20	0.0523057	0.923916	0.0523186	0.924144
rad21	0.0330681	0.956984	0.0330763	0.957220
rad45	0.0289856	0.985969	0.0289928	0.986213
rad23	0.0114165	0.997386	0.0114193	0.997632
rad36	0.00182826	0.999214	0.00182871	0.999461
rad11	0.000523829	0.999738	0.000523959	0.999985
Benzyl+C2H2	0.000247304	0.999985	0.00000	0.999985
rad6	1.48702e-05	1.00000	1.48739e-05	1.000000
rad30	2.70864e-09	1.00000	2.70931e-09	1.000000
rad7	5.18270e-10	1.00000	5.18398e-10	1.000000
rad24	4.05895e-10	1.00000	4.05996e-10	1.000000
rad15	2.42154e-10	1.00000	2.42214e-10	1.000000
rad13	3.49255e-11	1.00000	3.49341e-11	1.000000

rad25	2.99628e-11	1.00000	2.99702e-11	1.000000
PhCHCCH2+H	1.49742e-12	1.00000	1.49779e-12	1.000000
rad38	1.27445e-12	1.00000	1.27476e-12	1.000000
rad8	2.93505e-13	1.00000	2.93578e-13	1.000000
PAH9+H	2.83113e-13	1.00000	2.83183e-13	1.000000
rad3	2.12431e-13	1.00000	2.12484e-13	1.000000
rad35	1.79681e-13	1.00000	1.79726e-13	1.000000
rad4	1.10428e-13	1.00000	1.10455e-13	1.000000
rad9	8.53467e-14	1.00000	8.53678e-14	1.000000
rad33	4.27958e-14	1.00000	4.28064e-14	1.000000
Ph+Allene	2.42159e-14	1.00000	2.42219e-14	1.000000
rad2	8.67271e-15	1.00000	8.67485e-15	1.000000
rad28	7.04226e-15	1.00000	7.04401e-15	1.000000
rad46	3.00625e-15	1.00000	3.00700e-15	1.000000
rad60syn	2.78215e-15	1.00000	2.78284e-15	1.000000
rad60anti	6.74776e-16	1.00000	6.74942e-16	1.000000
rad1	6.06392e-16	1.00000	6.06542e-16	1.000000
PhCH2CCH+H	2.25968e-16	1.00000	2.26024e-16	1.000000
PhCCH+CH3	1.65310e-16	1.00000	1.65350e-16	1.000000
rad10	6.14595e-17	1.00000	6.14747e-17	1.000000
rad14	3.56533e-18	1.00000	3.56621e-18	1.000000
PAH7+H	3.31423e-18	1.00000	3.31505e-18	1.000000
PAH3+H	1.68032e-18	1.00000	1.68074e-18	1.000000
rad59	5.76600e-19	1.00000	5.76743e-19	1.000000
Ph+MeAc	2.94311e-19	1.00000	2.94383e-19	1.000000
PhCCCH3+H	2.67316e-19	1.00000	2.67382e-19	1.000000
rad26	6.41258e-20	1.00000	6.41417e-20	1.000000
rad27	1.42425e-20	1.00000	1.42460e-20	1.000000
rad50	3.49887e-21	1.00000	3.49974e-21	1.000000
rad39	3.00187e-22	1.00000	3.00261e-22	1.000000
rad31	1.70836e-22	1.00000	1.70878e-22	1.000000
rad5	6.76209e-25	1.00000	6.76376e-25	1.000000
rad52	4.33234e-25	1.00000	4.33341e-25	1.000000
rad12	3.07298e-25	1.00000	3.07374e-25	1.000000
rad19syn	1.30745e-25	1.00000	1.30778e-25	1.000000
rad37	2.75434e-26	1.00000	2.75502e-26	1.000000
rad51	7.11847e-27	1.00000	7.12024e-27	1.000000
rad54	3.70995e-27	1.00000	3.71087e-27	1.000000
rad70	1.34661e-27	1.00000	1.34695e-27	1.000000
rad58	9.84817e-28	1.00000	9.85061e-28	1.000000
rad62	7.50897e-29	1.00000	7.51083e-29	1.000000
rad65	2.36133e-29	1.00000	2.36191e-29	1.000000
rad43	2.22622e-29	1.00000	2.22677e-29	1.000000
PhcycC3H3_A+H	7.69756e-30	1.00000	7.69946e-30	1.000000
rad55	2.47067e-30	1.00000	2.47128e-30	1.000000
rad34	1.23883e-30	1.00000	1.23914e-30	1.000000
PAH10+CH3	1.06843e-30	1.00000	1.06869e-30	1.000000
rad47	4.56702e-32	1.00000	4.56815e-32	1.000000
PAH1+H	2.17603e-33	1.00000	2.17657e-33	1.000000
rad42	4.77742e-35	1.00000	4.77860e-35	1.000000
rad41	6.40127e-36	1.00000	6.40286e-36	1.000000

1000.00000 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.98964e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.531242	0.531242	0.531411	0.531411
Indene+H	0.239554	0.770796	0.239630	0.771041
rad18	0.110543	0.881339	0.110579	0.881620
rad20	0.0447766	0.926116	0.0447908	0.926411
rad45	0.0296290	0.955745	0.0296384	0.956049
rad21	0.0283028	0.984047	0.0283118	0.984361
rad23	0.0131471	0.997195	0.0131513	0.997512
rad36	0.00187625	0.999071	0.00187685	0.999389
rad11	0.000589961	0.999661	0.000590148	0.999979
Benzyl+C2H2	0.000318081	0.999979	0.00000	0.999979
rad6	2.08847e-05	1.000000	2.08913e-05	1.000000
rad30	4.14407e-09	1.000000	4.14539e-09	1.000000
rad7	9.11043e-10	1.000000	9.11333e-10	1.000000
rad24	4.10337e-10	1.000000	4.10467e-10	1.000000
rad15	4.05774e-10	1.000000	4.05904e-10	1.000000
rad25	5.33033e-11	1.000000	5.33202e-11	1.000000
rad13	4.89011e-11	1.000000	4.89166e-11	1.000000
PhCHCCH2+H	3.67945e-12	1.000000	3.68062e-12	1.000000
rad38	2.24609e-12	1.000000	2.24681e-12	1.000000
rad8	7.95886e-13	1.000000	7.96139e-13	1.000000

PAH9+H	5.72081e-13	1.000000	5.72263e-13	1.000000
rad3	4.45782e-13	1.000000	4.45924e-13	1.000000
rad35	3.49465e-13	1.000000	3.49576e-13	1.000000
rad4	2.32438e-13	1.000000	2.32512e-13	1.000000
rad9	2.24485e-13	1.000000	2.24557e-13	1.000000
Ph+Allene	7.77680e-14	1.000000	7.77927e-14	1.000000
rad33	5.99506e-14	1.000000	5.99697e-14	1.000000
rad2	2.49184e-14	1.000000	2.49263e-14	1.000000
rad28	1.73770e-14	1.000000	1.73826e-14	1.000000
rad60syn	7.55573e-15	1.000000	7.55814e-15	1.000000
rad46	6.80171e-15	1.000000	6.80387e-15	1.000000
rad60anti	1.93441e-15	1.000000	1.93503e-15	1.000000
rad1	1.76092e-15	1.000000	1.76148e-15	1.000000
PhCH2CCH+H	9.18621e-16	1.000000	9.18913e-16	1.000000
PhCCH+CH3	6.06403e-16	1.000000	6.06596e-16	1.000000
rad10	2.26044e-16	1.000000	2.26116e-16	1.000000
PAH7+H	1.17301e-17	1.000000	1.17339e-17	1.000000
rad14	1.04513e-17	1.000000	1.04546e-17	1.000000
PAH3+H	7.14293e-18	1.000000	7.14520e-18	1.000000
rad59	2.39150e-18	1.000000	2.39226e-18	1.000000
Ph+MeAc	1.36722e-18	1.000000	1.36766e-18	1.000000
PhCCCH3+H	1.27448e-18	1.000000	1.27489e-18	1.000000
rad26	2.99219e-19	1.000000	2.99315e-19	1.000000
rad27	4.49516e-20	1.000000	4.49659e-20	1.000000
rad50	1.60365e-20	1.000000	1.60416e-20	1.000000
rad39	1.43848e-21	1.000000	1.43894e-21	1.000000
rad31	3.96004e-22	1.000000	3.96130e-22	1.000000
rad5	4.51101e-24	1.000000	4.51245e-24	1.000000
rad52	2.85104e-24	1.000000	2.85195e-24	1.000000
rad12	2.11593e-24	1.000000	2.11660e-24	1.000000
rad19syn	9.70308e-25	1.000000	9.70617e-25	1.000000
rad37	2.13519e-25	1.000000	2.13587e-25	1.000000
rad51	6.21877e-26	1.000000	6.22075e-26	1.000000
rad54	3.13236e-26	1.000000	3.13336e-26	1.000000
rad70	1.39181e-26	1.000000	1.39225e-26	1.000000
rad58	1.09834e-26	1.000000	1.09869e-26	1.000000
rad62	7.24814e-28	1.000000	7.25045e-28	1.000000
rad65	2.51045e-28	1.000000	2.51125e-28	1.000000
rad43	2.28611e-28	1.000000	2.28684e-28	1.000000
PhcycC3H3_A+H	1.04946e-28	1.000000	1.04979e-28	1.000000
rad55	3.10273e-29	1.000000	3.10372e-29	1.000000
rad34	2.44521e-29	1.000000	2.44599e-29	1.000000
PAH10+CH3	1.43911e-29	1.000000	1.43957e-29	1.000000
rad47	4.56471e-31	1.000000	4.56617e-31	1.000000
PAH1+H	5.52895e-32	1.000000	5.53071e-32	1.000000
rad42	2.12760e-33	1.000000	2.12828e-33	1.000000
rad41	1.86007e-34	1.000000	1.86067e-34	1.000000

1000.00000 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17716e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.531542	0.531542	0.531757	0.531757
Indene+H	0.256377	0.787919	0.256481	0.788238
rad18	0.101504	0.889423	0.101545	0.889783
rad20	0.0381855	0.927609	0.0382010	0.927984
rad45	0.0301573	0.957766	0.0301696	0.958154
rad21	0.0241318	0.981898	0.0241416	0.982295
rad23	0.0150882	0.996986	0.0150944	0.997390
rad36	0.00191832	0.998904	0.00191909	0.999309
rad11	0.000661472	0.999566	0.000661740	0.999970
Benzyl+C2H2	0.000405821	0.999971	0.000000	0.999970
rad6	2.91025e-05	1.000000	2.91143e-05	1.000000
rad30	6.19424e-09	1.000000	6.19675e-09	1.000000
rad7	1.56743e-09	1.000000	1.56807e-09	1.000000
rad15	6.58754e-10	1.000000	6.59021e-10	1.000000
rad24	4.14184e-10	1.000000	4.14352e-10	1.000000
rad25	9.08491e-11	1.000000	9.08860e-11	1.000000
rad13	6.78604e-11	1.000000	6.78880e-11	1.000000
PhCHCCH2+H	8.55590e-12	1.000000	8.55937e-12	1.000000
rad38	3.89070e-12	1.000000	3.89228e-12	1.000000
rad8	2.00158e-12	1.000000	2.00239e-12	1.000000
PAH9+H	1.13570e-12	1.000000	1.13616e-12	1.000000
rad3	9.09544e-13	1.000000	9.09913e-13	1.000000
rad35	6.69143e-13	1.000000	6.69415e-13	1.000000
rad9	5.54567e-13	1.000000	5.54792e-13	1.000000

rad4	4.75823e-13	1.00000	4.76016e-13	1.000000
Ph+Allene	2.29888e-13	1.00000	2.29981e-13	1.000000
rad33	8.32547e-14	1.00000	8.32885e-14	1.000000
rad2	6.82735e-14	1.00000	6.83013e-14	1.000000
rad28	4.12815e-14	1.00000	4.12982e-14	1.000000
rad60syn	1.90188e-14	1.00000	1.90265e-14	1.000000
rad46	1.47837e-14	1.00000	1.47897e-14	1.000000
rad60anti	5.11258e-15	1.00000	5.11466e-15	1.000000
rad1	4.88048e-15	1.00000	4.88247e-15	1.000000
PhCH2CCH+H	3.36936e-15	1.00000	3.37073e-15	1.000000
PhCCH+CH3	2.07346e-15	1.00000	2.07431e-15	1.000000
rad10	7.76718e-16	1.00000	7.77033e-16	1.000000
PAH7+H	3.80067e-17	1.00000	3.80221e-17	1.000000
rad14	2.85304e-17	1.00000	2.85420e-17	1.000000
PAH3+H	2.71468e-17	1.00000	2.71578e-17	1.000000
rad59	8.87522e-18	1.00000	8.87882e-18	1.000000
Ph+MeAc	5.81120e-18	1.00000	5.81356e-18	1.000000
PhCCCH3+H	5.59321e-18	1.00000	5.59548e-18	1.000000
rad26	1.28838e-18	1.00000	1.28891e-18	1.000000
rad27	1.32564e-19	1.00000	1.32618e-19	1.000000
rad50	6.63942e-20	1.00000	6.64212e-20	1.000000
rad39	6.36788e-21	1.00000	6.37047e-21	1.000000
rad31	8.99213e-22	1.00000	8.99578e-22	1.000000
rad5	2.67426e-23	1.00000	2.67534e-23	1.000000
rad52	1.64052e-23	1.00000	1.64118e-23	1.000000
rad12	1.33526e-23	1.00000	1.33580e-23	1.000000
rad19syn	6.19581e-24	1.00000	6.19833e-24	1.000000
rad37	1.48830e-24	1.00000	1.48891e-24	1.000000
rad51	4.58554e-25	1.00000	4.58741e-25	1.000000
rad54	2.22319e-25	1.00000	2.22410e-25	1.000000
rad70	1.12412e-25	1.00000	1.12458e-25	1.000000
rad58	9.19586e-26	1.00000	9.19960e-26	1.000000
rad62	5.70437e-27	1.00000	5.70668e-27	1.000000
rad65	2.13117e-27	1.00000	2.13203e-27	1.000000
rad43	1.92388e-27	1.00000	1.92466e-27	1.000000
PhcycC3H3_A+H	9.66622e-28	1.00000	9.67014e-28	1.000000
rad55	2.77333e-28	1.00000	2.77446e-28	1.000000
rad34	2.38904e-28	1.00000	2.39001e-28	1.000000
PAH10+CH3	1.43492e-28	1.00000	1.43551e-28	1.000000
rad47	3.75554e-30	1.00000	3.75707e-30	1.000000
PAH1+H	5.88735e-31	1.00000	5.88974e-31	1.000000
rad42	2.35427e-32	1.00000	2.35523e-32	1.000000
rad41	2.19753e-33	1.00000	2.19842e-33	1.000000

1000.00000 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19288e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.530231	0.530231	0.530504	0.530504
Indene+H	0.273198	0.803429	0.273339	0.803843
rad18	0.0925573	0.895986	0.0926049	0.896448
rad20	0.0324473	0.928434	0.0324639	0.928912
rad45	0.0305634	0.958997	0.0305791	0.959491
rad21	0.0205013	0.979498	0.0205119	0.980003
rad23	0.0172550	0.996753	0.0172638	0.997267
rad36	0.00195401	0.998707	0.00195501	0.999222
rad11	0.000738164	0.999445	0.000738543	0.999960
Benzyl+C2H2	0.000513738	0.999959	0.00000	0.999960
rad6	4.02093e-05	0.999999	4.02300e-05	1.00000
rad30	9.06445e-09	0.999999	9.06911e-09	1.00000
rad7	2.63666e-09	0.999999	2.63802e-09	1.00000
rad15	1.03950e-09	0.999999	1.04004e-09	1.00000
rad24	4.17303e-10	0.999999	4.17518e-10	1.00000
rad25	1.48723e-10	0.999999	1.48799e-10	1.00000
rad13	9.32975e-11	0.999999	9.33454e-11	1.00000
PhCHCCH2+H	1.89207e-11	0.999999	1.89304e-11	1.00000
rad38	6.63076e-12	0.999999	6.63417e-12	1.00000
rad8	4.71003e-12	0.999999	4.71245e-12	1.00000
PAH9+H	2.21501e-12	0.999999	2.21615e-12	1.00000
rad3	1.80284e-12	0.999999	1.80377e-12	1.00000
rad9	1.29468e-12	0.999999	1.29535e-12	1.00000
rad35	1.26116e-12	0.999999	1.26180e-12	1.00000
rad4	9.46530e-13	0.999999	9.47016e-13	1.00000
Ph+Allene	6.31029e-13	0.999999	6.31353e-13	1.00000
rad2	1.78477e-13	0.999999	1.78569e-13	1.00000
rad33	1.14572e-13	0.999999	1.14631e-13	1.00000

rad28	9.45419e-14	0.999999	9.45905e-14	1.00000
rad60syn	4.47681e-14	0.999999	4.47911e-14	1.00000
rad46	3.10039e-14	0.999999	3.10199e-14	1.00000
rad1	1.29173e-14	0.999999	1.29239e-14	1.00000
rad60anti	1.25773e-14	0.999999	1.25838e-14	1.00000
PhCH2CCH+H	1.12752e-14	0.999999	1.12810e-14	1.00000
PhCCH+CH3	6.63539e-15	0.999999	6.63880e-15	1.00000
rad10	2.49894e-15	0.999999	2.50023e-15	1.00000
PAH7+H	1.13871e-16	0.999999	1.13929e-16	1.00000
PAH3+H	9.34536e-17	0.999999	9.35017e-17	1.00000
rad14	7.28441e-17	0.999999	7.28815e-17	1.00000
rad59	2.98580e-17	0.999999	2.98734e-17	1.00000
Ph+MeAc	2.27852e-17	0.999999	2.27969e-17	1.00000
PhCCCH3+H	2.27189e-17	0.999999	2.27306e-17	1.00000
rad26	5.16293e-18	0.999999	5.16559e-18	1.00000
rad27	3.67027e-19	0.999999	3.67216e-19	1.00000
rad50	2.51403e-19	0.999999	2.51532e-19	1.00000
rad39	2.62178e-20	0.999999	2.62313e-20	1.00000
rad31	1.99963e-21	0.999999	2.00066e-21	1.00000
rad5	1.42569e-22	0.999999	1.42642e-22	1.00000
rad52	8.39338e-23	0.999999	8.39769e-23	1.00000
rad12	7.74640e-23	0.999999	7.75039e-23	1.00000
rad19syn	3.47273e-23	0.999999	3.47452e-23	1.00000
rad37	9.39913e-24	0.999999	9.40396e-24	1.00000
rad51	2.93765e-24	0.999999	2.93916e-24	1.00000
rad54	1.36834e-24	0.999999	1.36904e-24	1.00000
rad70	7.65451e-25	0.999999	7.65844e-25	1.00000
rad58	6.44870e-25	0.999999	6.45201e-25	1.00000
rad62	3.84385e-26	0.999999	3.84582e-26	1.00000
rad65	1.54214e-26	0.999999	1.54293e-26	1.00000
rad43	1.39253e-26	0.999999	1.39325e-26	1.00000
PhcycC3H3_A+H	7.38709e-27	0.999999	7.39089e-27	1.00000
rad55	2.06870e-27	0.999999	2.06977e-27	1.00000
rad34	1.88826e-27	0.999999	1.88923e-27	1.00000
PAH10+CH3	1.20732e-27	0.999999	1.20794e-27	1.00000
rad47	2.61826e-29	0.999999	2.61961e-29	1.00000
PAH1+H	5.05393e-30	0.999999	5.05652e-30	1.00000
rad42	2.07461e-31	0.999999	2.07568e-31	1.00000
rad41	2.09215e-32	0.999999	2.09322e-32	1.00000

1000.00000 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.03622e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.527348	0.527348	0.527689	0.527689
Indene+H	0.289977	0.817325	0.290165	0.817854
rad18	0.0838335	0.901159	0.0838877	0.901742
rad45	0.0308415	0.932000	0.0308614	0.932603
rad20	0.0274777	0.959478	0.0274954	0.960098
rad23	0.0196605	0.979138	0.0196732	0.979772
rad21	0.0173580	0.996496	0.0173692	0.997141
rad36	0.00198295	0.998479	0.00198423	0.999125
rad11	0.000819676	0.999299	0.000820206	0.999945
Benzyl+C2H2	0.000645475	0.999944	0.00000	0.999945
rad6	5.50486e-05	0.999999	5.50842e-05	1.00000
rad30	1.30101e-08	0.999999	1.30185e-08	1.00000
rad7	4.33360e-09	0.999999	4.33640e-09	1.00000
rad15	1.59885e-09	0.999999	1.59988e-09	1.00000
rad24	4.19583e-10	0.999999	4.19854e-10	1.00000
rad25	2.34398e-10	0.999999	2.34550e-10	1.00000
rad13	1.27032e-10	0.999999	1.27114e-10	1.00000
PhCHCCH2+H	3.99619e-11	0.999999	3.99877e-11	1.00000
rad38	1.11290e-11	0.999999	1.11362e-11	1.00000
rad8	1.04487e-11	0.999999	1.04554e-11	1.00000
PAH9+H	4.24475e-12	0.999999	4.24749e-12	1.00000
rad3	3.46959e-12	0.999999	3.47184e-12	1.00000
rad9	2.87141e-12	0.999999	2.87326e-12	1.00000
rad35	2.33954e-12	0.999999	2.34105e-12	1.00000
rad4	1.82868e-12	0.999999	1.82986e-12	1.00000
Ph+Allene	1.62051e-12	0.999999	1.62156e-12	1.00000
rad2	4.45552e-13	0.999999	4.45840e-13	1.00000
rad28	2.09032e-13	0.999999	2.09167e-13	1.00000
rad33	1.56183e-13	0.999999	1.56284e-13	1.00000
rad60syn	9.92939e-14	0.999999	9.93580e-14	1.00000
rad46	6.29742e-14	0.999999	6.30149e-14	1.00000
PhCH2CCH+H	3.47551e-14	0.999999	3.47776e-14	1.00000

rad1	3.26793e-14	0.999999	3.27004e-14	1.00000
rad60anti	2.90354e-14	0.999999	2.90541e-14	1.00000
PhCCH+CH3	1.99514e-14	0.999999	1.99643e-14	1.00000
rad10	7.54702e-15	0.999999	7.55190e-15	1.00000
PAH7+H	3.18142e-16	0.999999	3.18347e-16	1.00000
PAH3+H	2.94668e-16	0.999999	2.94858e-16	1.00000
rad14	1.74684e-16	0.999999	1.74797e-16	1.00000
rad59	9.20722e-17	0.999999	9.21317e-17	1.00000
PhCCCH3+H	8.58584e-17	0.999999	8.59138e-17	1.00000
Ph+MeAc	8.30176e-17	0.999999	8.30712e-17	1.00000
rad26	1.93686e-17	0.999999	1.93811e-17	1.00000
rad27	9.58155e-19	0.999999	9.58774e-19	1.00000
rad50	8.79982e-19	0.999999	8.80550e-19	1.00000
rad39	1.00964e-19	0.999999	1.01029e-19	1.00000
rad31	4.35475e-21	0.999999	4.35756e-21	1.00000
rad5	6.90148e-22	0.999999	6.90594e-22	1.00000
rad12	4.13629e-22	0.999999	4.13897e-22	1.00000
rad52	3.87243e-22	0.999999	3.87493e-22	1.00000
rad19syn	1.73323e-22	0.999999	1.73435e-22	1.00000
rad37	5.39707e-23	0.999999	5.40055e-23	1.00000
rad51	1.66412e-23	0.999999	1.66520e-23	1.00000
rad54	7.42906e-24	0.999999	7.43386e-24	1.00000
rad70	4.50872e-24	0.999999	4.51163e-24	1.00000
rad58	3.90190e-24	0.999999	3.90442e-24	1.00000
rad62	2.26328e-25	0.999999	2.26474e-25	1.00000
rad65	9.73646e-26	0.999999	9.74275e-26	1.00000
rad43	8.83527e-26	0.999999	8.84097e-26	1.00000
PhcycC3H3_A+H	4.86016e-26	0.999999	4.86330e-26	1.00000
rad55	1.33122e-26	0.999999	1.33208e-26	1.00000
rad34	1.27585e-26	0.999999	1.27667e-26	1.00000
PAH10+CH3	8.80688e-27	0.999999	8.81257e-27	1.00000
rad47	1.58015e-28	0.999999	1.58118e-28	1.00000
PAH1+H	3.70954e-29	0.999999	3.71194e-29	1.00000
rad42	1.56167e-30	0.999999	1.56268e-30	1.00000
rad41	1.69606e-31	0.999999	1.69716e-31	1.00000

1000.00000 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89205e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.522927	0.522927	0.523349	0.523349
Indene+H	0.306693	0.829620	0.306940	0.830289
rad18	0.0754410	0.905061	0.0755018	0.905791
rad45	0.0309877	0.936049	0.0310126	0.936803
rad20	0.0231954	0.959244	0.0232141	0.960017
rad23	0.0223155	0.981560	0.0223335	0.982351
rad21	0.0146501	0.996210	0.0146619	0.997013
rad36	0.00200485	0.998215	0.00200647	0.999019
rad11	0.000905464	0.999120	0.000906194	0.999926
Benzyl+C2H2	0.000805133	0.999925	0.00000	0.999926
rad6	7.46366e-05	1.000000	7.46968e-05	1.00000
rad30	1.83445e-08	1.000000	1.83593e-08	1.00000
rad7	6.95707e-09	1.000000	6.96267e-09	1.00000
rad15	2.40280e-09	1.000000	2.40473e-09	1.00000
rad24	4.20939e-10	1.000000	4.21278e-10	1.00000
rad25	3.56470e-10	1.000000	3.56758e-10	1.00000
rad13	1.71236e-10	1.000000	1.71374e-10	1.00000
PhCHCCH2+H	8.09092e-11	1.000000	8.09744e-11	1.00000
rad8	2.19921e-11	1.000000	2.20098e-11	1.00000
rad38	1.84130e-11	1.000000	1.84279e-11	1.00000
PAH9+H	7.99486e-12	1.000000	8.00130e-12	1.00000
rad3	6.48133e-12	1.000000	6.48655e-12	1.00000
rad9	6.07723e-12	1.000000	6.08213e-12	1.00000
rad35	4.27212e-12	1.000000	4.27556e-12	1.00000
Ph+Allene	3.91857e-12	1.000000	3.92173e-12	1.00000
rad4	3.43030e-12	1.000000	3.43306e-12	1.00000
rad2	1.06346e-12	1.000000	1.06432e-12	1.00000
rad28	4.46879e-13	1.000000	4.47239e-13	1.00000
rad33	2.10826e-13	1.000000	2.10996e-13	1.00000
rad60syn	2.08862e-13	1.000000	2.09030e-13	1.00000
rad46	1.24298e-13	1.000000	1.24399e-13	1.00000
PhCH2CCH+H	9.94981e-14	1.000000	9.95782e-14	1.00000
rad1	7.91229e-14	1.000000	7.91867e-14	1.00000
rad60anti	6.33410e-14	1.000000	6.33920e-14	1.00000
PhCCH+CH3	5.65793e-14	1.000000	5.66249e-14	1.00000
rad10	2.14545e-14	1.000000	2.14717e-14	1.00000

PAH3+H	8.59109e-16	1.000000	8.59801e-16	1.00000
PAH7+H	8.34825e-16	1.000000	8.35498e-16	1.00000
rad14	3.95036e-16	1.000000	3.95354e-16	1.00000
PhCCCH3+H	3.03365e-16	1.000000	3.03610e-16	1.00000
Ph+MeAc	2.82889e-16	1.000000	2.83117e-16	1.00000
rad59	2.62718e-16	1.000000	2.62930e-16	1.00000
rad26	6.82988e-17	1.000000	6.83538e-17	1.00000
rad50	2.87387e-18	1.000000	2.87618e-18	1.00000
rad27	2.36782e-18	1.000000	2.36973e-18	1.00000
rad39	3.65280e-19	1.000000	3.65574e-19	1.00000
rad31	9.29013e-21	1.000000	9.29762e-21	1.00000
rad5	3.05714e-21	1.000000	3.05961e-21	1.00000
rad12	2.03356e-21	1.000000	2.03520e-21	1.00000
rad52	1.63024e-21	1.000000	1.63155e-21	1.00000
rad19syn	7.78439e-22	1.000000	7.79066e-22	1.00000
rad37	2.82291e-22	1.000000	2.82519e-22	1.00000
rad51	8.44252e-23	1.000000	8.44932e-23	1.00000
rad54	3.59623e-23	1.000000	3.59913e-23	1.00000
rad70	2.32648e-23	1.000000	2.32835e-23	1.00000
rad58	2.06169e-23	1.000000	2.06335e-23	1.00000
rad62	1.17767e-24	1.000000	1.17862e-24	1.00000
rad65	5.43360e-25	1.000000	5.43798e-25	1.00000
rad43	4.96562e-25	1.000000	4.96962e-25	1.00000
PhcycC3H3_A+H	2.77870e-25	1.000000	2.78094e-25	1.00000
rad55	7.46474e-26	1.000000	7.47076e-26	1.00000
rad34	7.42355e-26	1.000000	7.42953e-26	1.00000
PAH10+CH3	5.62004e-26	1.000000	5.62457e-26	1.00000
rad47	8.39505e-28	1.000000	8.40182e-28	1.00000
PAH1+H	2.33750e-28	1.000000	2.33938e-28	1.00000
rad42	1.00490e-29	1.000000	1.00571e-29	1.00000
rad41	1.17877e-30	1.000000	1.17972e-30	1.00000

1000.00000 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.19596e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.517004	0.517004	0.517520	0.517520
Indene+H	0.323338	0.840342	0.323661	0.841181
rad18	0.0674667	0.907809	0.0675341	0.908715
rad45	0.0310002	0.938809	0.0310312	0.939746
rad23	0.0252272	0.964036	0.0252524	0.964999
rad20	0.0195229	0.983559	0.0195424	0.984541
rad21	0.0123286	0.995888	0.0123409	0.996882
rad36	0.00201952	0.997907	0.00202154	0.998904
Benzyl+C2H2	0.000997291	0.998904	0.00000	0.998904
rad11	0.000994788	0.999899	0.000995781	0.999899
rad6	0.000100171	0.999999	0.000100271	1.000000
rad30	2.54468e-08	0.999999	2.54722e-08	1.000000
rad7	1.09086e-08	0.999999	1.09195e-08	1.000000
rad15	3.53558e-09	0.999999	3.53911e-09	1.000000
rad25	5.24212e-10	0.999999	5.24736e-10	1.000000
rad24	4.21315e-10	0.999999	4.21736e-10	1.000000
rad13	2.28443e-10	0.999999	2.28671e-10	1.000000
PhCHCCH2+H	1.57546e-10	0.999999	1.57704e-10	1.000000
rad8	4.41594e-11	0.999999	4.42034e-11	1.000000
rad38	3.00598e-11	0.999999	3.00898e-11	1.000000
PAH9+H	1.48057e-11	0.999999	1.48205e-11	1.000000
rad9	1.23226e-11	0.999999	1.23349e-11	1.000000
rad3	1.17517e-11	0.999999	1.17634e-11	1.000000
Ph+Allene	8.97244e-12	0.999999	8.98139e-12	1.000000
rad35	7.68088e-12	0.999999	7.68855e-12	1.000000
rad4	6.24754e-12	0.999999	6.25378e-12	1.000000
rad2	2.43034e-12	0.999999	2.43276e-12	1.000000
rad28	9.25229e-13	0.999999	9.26153e-13	1.000000
rad60syn	4.18979e-13	0.999999	4.19398e-13	1.000000
rad33	2.81720e-13	0.999999	2.82001e-13	1.000000
PhCH2CCH+H	2.66450e-13	0.999999	2.66716e-13	1.000000
rad46	2.39119e-13	0.999999	2.39358e-13	1.000000
rad1	1.83608e-13	0.999999	1.83791e-13	1.000000
PhCCH+CH3	1.51879e-13	0.999999	1.52030e-13	1.000000
rad60anti	1.31358e-13	0.999999	1.31490e-13	1.000000
rad10	5.75742e-14	0.999999	5.76316e-14	1.000000
PAH3+H	2.33496e-15	0.999999	2.33729e-15	1.000000
PAH7+H	2.07015e-15	0.999999	2.07222e-15	1.000000
PhCCCH3+H	1.00670e-15	0.999999	1.00770e-15	1.000000
Ph+MeAc	9.06697e-16	0.999999	9.07603e-16	1.000000

rad14	8.45675e-16	0.999999	8.46520e-16	1.000000
rad59	6.99316e-16	0.999999	7.00014e-16	1.000000
rad26	2.27067e-16	0.999999	2.27294e-16	1.000000
rad50	8.82808e-18	0.999999	8.83689e-18	1.000000
rad27	5.55903e-18	0.999999	5.56458e-18	1.000000
rad39	1.24600e-18	0.999999	1.24725e-18	1.000000
rad31	1.94248e-20	0.999999	1.94442e-20	1.000000
rad5	1.24763e-20	0.999999	1.24887e-20	1.000000
rad12	9.22066e-21	0.999999	9.22986e-21	1.000000
rad52	6.32701e-21	0.999999	6.33333e-21	1.000000
rad19syn	3.17522e-21	0.999999	3.17839e-21	1.000000
rad37	1.34951e-21	0.999999	1.35086e-21	1.000000
rad51	3.88096e-22	0.999999	3.88484e-22	1.000000
rad54	1.56766e-22	0.999999	1.56922e-22	1.000000
rad70	1.06515e-22	0.999999	1.06622e-22	1.000000
rad58	9.63913e-23	0.999999	9.64875e-23	1.000000
rad62	5.47600e-24	0.999999	5.48147e-24	1.000000
rad65	2.71576e-24	0.999999	2.71847e-24	1.000000
rad43	2.49833e-24	0.999999	2.50082e-24	1.000000
PhcycC3H3_A+H	1.39912e-24	0.999999	1.40051e-24	1.000000
rad34	3.77753e-25	0.999999	3.78130e-25	1.000000
rad55	3.69507e-25	0.999999	3.69876e-25	1.000000
PAH10+CH3	3.17466e-25	0.999999	3.17783e-25	1.000000
rad47	3.98552e-27	0.999999	3.98950e-27	1.000000
PAH1+H	1.28461e-27	0.999999	1.28590e-27	1.000000
rad42	5.62332e-29	0.999999	5.62893e-29	1.000000
rad41	7.14116e-30	0.999999	7.14829e-30	1.000000

1000.00000 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17551e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.489310	0.489310	0.490097	0.490097
Indene+H	0.372606	0.861916	0.373205	0.863302
rad18	0.0465476	0.908464	0.0466225	0.909925
rad23	0.0362124	0.944676	0.0362707	0.946195
rad45	0.0267334	0.971409	0.0267764	0.972972
rad20	0.0150322	0.986442	0.0150564	0.988028
rad21	0.00986046	0.996302	0.00987632	0.997904
Benzyl+C2H2	0.00160525	0.997907	0.000000	0.997904
rad11	0.000978578	0.998886	0.000980152	0.998884
rad36	0.000911271	0.999797	0.000912737	0.999797
rad6	0.000202732	1.000000	0.000203058	1.000000
rad30	3.57206e-08	1.000000	3.57780e-08	1.000000
rad7	3.53091e-08	1.000000	3.53658e-08	1.000000
rad9	4.84816e-09	1.000000	4.85596e-09	1.000000
rad25	9.50237e-10	1.000000	9.51765e-10	1.000000
rad24	7.46831e-10	1.000000	7.48031e-10	1.000000
PAH9+H	7.10429e-10	1.000000	7.11572e-10	1.000000
PhCHCCH2+H	5.23627e-10	1.000000	5.24469e-10	1.000000
rad13	4.35950e-10	1.000000	4.36651e-10	1.000000
rad38	4.10784e-10	1.000000	4.11445e-10	1.000000
rad35	2.51697e-10	1.000000	2.52101e-10	1.000000
rad3	6.21252e-11	1.000000	6.22251e-11	1.000000
rad2	3.70803e-11	1.000000	3.71399e-11	1.000000
rad4	3.09104e-11	1.000000	3.09601e-11	1.000000
Ph+Allene	1.89612e-11	1.000000	1.89917e-11	1.000000
rad46	1.11063e-11	1.000000	1.11242e-11	1.000000
rad28	9.29992e-12	1.000000	9.31487e-12	1.000000
rad15	7.85848e-12	1.000000	7.87111e-12	1.000000
PhCCH+CH3	5.27245e-12	1.000000	5.28092e-12	1.000000
rad1	2.79519e-12	1.000000	2.79969e-12	1.000000
rad10	1.79430e-12	1.000000	1.79719e-12	1.000000
PhCH2CCH+H	1.10338e-12	1.000000	1.10515e-12	1.000000
rad60syn	7.50629e-13	1.000000	7.51836e-13	1.000000
rad33	6.19372e-13	1.000000	6.20368e-13	1.000000
rad60anti	2.26666e-13	1.000000	2.27030e-13	1.000000
PhCCCH3+H	1.81054e-13	1.000000	1.81345e-13	1.000000
rad19anti	1.56503e-13	1.000000	1.56754e-13	1.000000
Ph+MeAc	1.25732e-13	1.000000	1.25934e-13	1.000000
PAH7+H	5.49907e-14	1.000000	5.50791e-14	1.000000
rad26	3.94139e-14	1.000000	3.94772e-14	1.000000
rad50	1.95246e-14	1.000000	1.95560e-14	1.000000
rad14	7.19918e-15	1.000000	7.21075e-15	1.000000
PAH3+H	7.04778e-15	1.000000	7.05911e-15	1.000000
rad59	1.61171e-15	1.000000	1.61430e-15	1.000000

rad39	1.04911e-15	1.000000	1.05079e-15	1.00000
rad52	1.26093e-16	1.000000	1.26296e-16	1.00000
rad27	9.31995e-17	1.000000	9.33493e-17	1.00000
rad12	6.06476e-17	1.000000	6.07451e-17	1.00000
rad51	4.44954e-17	1.000000	4.45670e-17	1.00000
rad37	9.83385e-18	1.000000	9.84966e-18	1.00000
rad5	1.59803e-18	1.000000	1.60060e-18	1.00000
rad19syn	1.37104e-18	1.000000	1.37324e-18	1.00000
rad65	9.82869e-19	1.000000	9.84450e-19	1.00000
rad31	3.28959e-19	1.000000	3.29488e-19	1.00000
rad67	2.52666e-19	1.000000	2.53072e-19	1.00000
rad54	1.56010e-19	1.000000	1.56261e-19	1.00000
PAH10+CH3	5.74120e-20	1.000000	5.75043e-20	1.00000
rad70	2.84151e-20	1.000000	2.84608e-20	1.00000
PhcycC3H3_A+H	2.05834e-20	1.000000	2.06165e-20	1.00000
rad58	1.63042e-20	1.000000	1.63305e-20	1.00000
rad43	1.34180e-20	1.000000	1.34395e-20	1.00000
rad62	8.84986e-21	1.000000	8.86409e-21	1.00000
PAH1+H	5.85968e-21	1.000000	5.86910e-21	1.00000
rad55	2.52396e-21	1.000000	2.52802e-21	1.00000
rad34	1.08407e-21	1.000000	1.08581e-21	1.00000
rad47	9.16082e-23	1.000000	9.17555e-23	1.00000
rad42	1.19266e-23	1.000000	1.19458e-23	1.00000
rad53	5.63542e-24	1.000000	5.64448e-24	1.00000
rad64	5.26919e-24	1.000000	5.27767e-24	1.00000
rad41	4.81175e-24	1.000000	4.81949e-24	1.00000
rad73	3.47868e-24	1.000000	3.48427e-24	1.00000
rad56	3.55813e-25	1.000000	3.56386e-25	1.00000
rad71	1.97759e-25	1.000000	1.98077e-25	1.00000
rad68syn	9.13366e-26	1.000000	9.14834e-26	1.00000
rad68anti	6.46540e-26	1.000000	6.47580e-26	1.00000
rad61	3.19280e-26	1.000000	3.19793e-26	1.00000
PAH8+H	1.72458e-27	1.000000	1.72735e-27	1.00000
rad40syn	1.61447e-27	1.000000	1.61707e-27	1.00000
rad40anti	4.19364e-28	1.000000	4.20038e-28	1.00000
rad72	7.53721e-31	1.000000	7.54933e-31	1.00000
rad8	1.31625e-35	1.000000	1.31837e-35	1.00000

1000.00000 Pa, 310.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.44453e-22 (1.00)	2.44087e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.500799	0.500799	0.501551	0.501551
Indene+H	0.356460	0.857259	0.356995	0.858546
rad18	0.0530148	0.910274	0.0530945	0.911641
rad23	0.0318280	0.942102	0.0318758	0.943516
rad45	0.0306309	0.972733	0.0306769	0.974193
rad20	0.0137221	0.986455	0.0137428	0.987936
rad21	0.00866316	0.995118	0.00867618	0.996612
rad36	0.00202702	0.997145	0.00203007	0.998642
Benzyl+C2H2	0.00149995	0.998645	0.00000	0.998642
rad11	0.00118008	0.999825	0.00118185	0.999824
rad6	0.000174764	1.000000	0.000175026	0.999999
rad30	4.68515e-08	1.000000	4.69219e-08	0.999999
rad7	2.50143e-08	1.000000	2.50518e-08	0.999999
rad15	7.23637e-09	1.000000	7.24724e-09	0.999999
rad25	1.03318e-09	1.000000	1.03473e-09	0.999999
PhCHCCH2+H	5.37422e-10	1.000000	5.38229e-10	0.999999
rad24	4.19059e-10	1.000000	4.19689e-10	0.999999
rad13	3.93757e-10	1.000000	3.94349e-10	0.999999
rad8	1.57444e-10	1.000000	1.57680e-10	0.999999
rad38	7.72661e-11	1.000000	7.73822e-11	0.999999
PAH9+H	4.83783e-11	1.000000	4.84510e-11	0.999999
rad9	4.51532e-11	1.000000	4.52211e-11	0.999999
Ph+Allene	4.07046e-11	1.000000	4.07657e-11	0.999999
rad3	3.53641e-11	1.000000	3.54173e-11	0.999999
rad35	2.37370e-11	1.000000	2.37726e-11	0.999999
rad4	1.89874e-11	1.000000	1.90159e-11	0.999999
rad2	1.12132e-11	1.000000	1.12301e-11	0.999999
rad28	3.62594e-12	1.000000	3.63139e-12	0.999999
PhCH2CCH+H	1.60214e-12	1.000000	1.60455e-12	0.999999
rad60syn	1.48975e-12	1.000000	1.49199e-12	0.999999
PhCCH+CH3	9.40972e-13	1.000000	9.42386e-13	0.999999
rad1	8.76179e-13	1.000000	8.77495e-13	0.999999
rad46	8.27984e-13	1.000000	8.29228e-13	0.999999
rad60anti	4.95135e-13	1.000000	4.95879e-13	0.999999

rad33	4.87530e-13	1.000000	4.88262e-13	0.999999
rad10	3.52825e-13	1.000000	3.53355e-13	0.999999
PAH3+H	1.43564e-14	1.000000	1.43780e-14	0.999999
PAH7+H	1.09661e-14	1.000000	1.09825e-14	0.999999
PhCCCH3+H	9.33262e-15	1.000000	9.34664e-15	0.999999
Ph+MeAc	7.90106e-15	1.000000	7.91293e-15	0.999999
rad59	4.13278e-15	1.000000	4.13899e-15	0.999999
rad14	3.33468e-15	1.000000	3.33969e-15	0.999999
rad26	2.12399e-15	1.000000	2.12718e-15	0.999999
rad50	7.12581e-17	1.000000	7.13652e-17	0.999999
rad27	2.66156e-17	1.000000	2.66556e-17	0.999999
rad39	1.22788e-17	1.000000	1.22972e-17	0.999999
rad5	1.66205e-19	1.000000	1.66455e-19	0.999999
rad12	1.50290e-19	1.000000	1.50516e-19	0.999999
rad31	8.02134e-20	1.000000	8.03339e-20	0.999999
rad52	7.72901e-20	1.000000	7.74062e-20	0.999999
rad19syn	4.07888e-20	1.000000	4.08501e-20	0.999999
rad37	2.39358e-20	1.000000	2.39717e-20	0.999999
rad51	6.35101e-21	1.000000	6.36055e-21	0.999999
rad54	2.24852e-21	1.000000	2.25190e-21	0.999999
rad70	1.62766e-21	1.000000	1.63011e-21	0.999999
rad58	1.52507e-21	1.000000	1.52736e-21	0.999999
rad62	8.77429e-23	1.000000	8.78747e-23	0.999999
rad65	5.10118e-23	1.000000	5.10884e-23	0.999999
rad43	4.70403e-23	1.000000	4.71110e-23	0.999999
PhcycC3H3_A+H	2.53327e-23	1.000000	2.53708e-23	0.999999
PAH10+CH3	7.31982e-24	1.000000	7.33082e-24	0.999999
rad34	6.87786e-24	1.000000	6.88819e-24	0.999999
rad55	6.50400e-24	1.000000	6.51377e-24	0.999999
rad47	6.74432e-26	1.000000	6.75445e-26	0.999999
PAH1+H	2.70795e-26	1.000000	2.71202e-26	0.999999
rad42	1.22237e-27	1.000000	1.22420e-27	0.999999
rad41	1.83040e-28	1.000000	1.83315e-28	0.999999

1000.00000 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.60269e-20 (1.00)	3.57127e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.539502	0.539502	0.544247	0.544247
rad22	0.336128	0.875630	0.339084	0.883331
rad23	0.0748343	0.950464	0.0754926	0.958824
rad45	0.0202110	0.970675	0.0203888	0.979212
rad18	0.0119418	0.982617	0.0120468	0.991259
Benzyl+C2H2	0.00871911	0.991336	0.000000	0.991259
rad20	0.00298121	0.994317	0.00300743	0.994267
rad21	0.00197656	0.996294	0.00199395	0.996261
rad11	0.00147506	0.997769	0.00148804	0.997749
rad6	0.00145606	0.999225	0.00146886	0.999217
rad36	0.000774424	1.000000	0.000781236	0.999999
rad7	4.80139e-07	1.000000	4.84362e-07	0.999999
rad30	3.91127e-07	1.000000	3.94567e-07	1.000000
PAH9+H	1.28867e-07	1.000000	1.30000e-07	1.000000
rad9	8.55277e-08	1.000000	8.62799e-08	1.000000
rad38	5.09265e-08	1.000000	5.13744e-08	1.000000
PhCHCCH2+H	3.82886e-08	1.000000	3.86253e-08	1.000000
rad35	3.61727e-08	1.000000	3.64909e-08	1.000000
rad25	5.91797e-09	1.000000	5.97003e-09	1.000000
Ph+Allene	4.90427e-09	1.000000	4.94741e-09	1.000000
rad2	4.05001e-09	1.000000	4.08564e-09	1.000000
rad46	3.72868e-09	1.000000	3.76147e-09	1.000000
rad13	3.10596e-09	1.000000	3.13328e-09	1.000000
PhCCH+CH3	2.47567e-09	1.000000	2.49745e-09	1.000000
rad3	1.81121e-09	1.000000	1.82714e-09	1.000000
rad28	1.50580e-09	1.000000	1.51904e-09	1.000000
rad4	9.54244e-10	1.000000	9.62637e-10	1.000000
PhCH2CCH+H	9.13302e-10	1.000000	9.21335e-10	1.000000
rad24	7.81218e-10	1.000000	7.88090e-10	1.000000
rad1	3.77025e-10	1.000000	3.80341e-10	1.000000
rad10	3.36030e-10	1.000000	3.38985e-10	1.000000
PhCCCH3+H	2.65280e-10	1.000000	2.67613e-10	1.000000
Ph+MeAc	2.41565e-10	1.000000	2.43690e-10	1.000000
PAH7+H	1.51899e-10	1.000000	1.53235e-10	1.000000
rad15	1.20617e-10	1.000000	1.21678e-10	1.000000
rad60syn	9.61743e-11	1.000000	9.70203e-11	1.000000
rad50	6.74277e-11	1.000000	6.80208e-11	1.000000
rad19anti	4.46376e-11	1.000000	4.50303e-11	1.000000

rad60anti	3.84723e-11	1.00000	3.88107e-11	1.000000
rad26	3.71226e-11	1.00000	3.74491e-11	1.000000
rad39	1.74724e-11	1.00000	1.76261e-11	1.000000
PAH3+H	8.47429e-12	1.00000	8.54883e-12	1.000000
rad33	4.93185e-12	1.00000	4.97523e-12	1.000000
rad59	1.67607e-12	1.00000	1.69081e-12	1.000000
rad52	1.27080e-12	1.00000	1.28198e-12	1.000000
rad51	1.07688e-12	1.00000	1.08635e-12	1.000000
rad14	3.31376e-13	1.00000	3.34290e-13	1.000000
rad37	1.59092e-13	1.00000	1.60492e-13	1.000000
rad19syn	6.43912e-14	1.00000	6.49575e-14	1.000000
rad65	3.03858e-14	1.00000	3.06530e-14	1.000000
rad54	1.51091e-14	1.00000	1.52420e-14	1.000000
rad27	1.06521e-14	1.00000	1.07458e-14	1.000000
PAH10+CH3	6.96803e-15	1.00000	7.02932e-15	1.000000
PhcycC3H3_A+H	5.45905e-15	1.00000	5.50707e-15	1.000000
rad67	3.90955e-15	1.00000	3.94394e-15	1.000000
PAH1+H	2.40106e-15	1.00000	2.42218e-15	1.000000
rad70	2.07968e-15	1.00000	2.09797e-15	1.000000
rad12	1.69200e-15	1.00000	1.70689e-15	1.000000
rad5	1.09804e-15	1.00000	1.10770e-15	1.000000
rad58	7.62782e-16	1.00000	7.69491e-16	1.000000
rad55	5.08833e-16	1.00000	5.13309e-16	1.000000
rad62	4.34598e-16	1.00000	4.38421e-16	1.000000
rad43	2.37276e-16	1.00000	2.39363e-16	1.000000
rad34	1.79262e-16	1.00000	1.80838e-16	1.000000
rad31	1.13966e-16	1.00000	1.14969e-16	1.000000
rad73	2.70366e-17	1.00000	2.72744e-17	1.000000
rad64	8.68345e-18	1.00000	8.75983e-18	1.000000
rad53	8.11440e-18	1.00000	8.18577e-18	1.000000
rad71	6.92633e-18	1.00000	6.98725e-18	1.000000
rad42	3.56910e-18	1.00000	3.60050e-18	1.000000
rad56	1.73079e-18	1.00000	1.74602e-18	1.000000
rad47	7.57241e-19	1.00000	7.63901e-19	1.000000
rad41	6.98718e-19	1.00000	7.04864e-19	1.000000
rad68syn	3.31511e-19	1.00000	3.34427e-19	1.000000
rad68anti	2.26321e-19	1.00000	2.28312e-19	1.000000
rad61	1.65172e-19	1.00000	1.66625e-19	1.000000
PAH8+H	6.58836e-20	1.00000	6.64631e-20	1.000000
rad40syn	2.38868e-20	1.00000	2.40969e-20	1.000000
rad40anti	8.92769e-21	1.00000	9.00622e-21	1.000000
rad72	4.03610e-21	1.00000	4.07160e-21	1.000000
rad8	7.65086e-32	1.00000	7.71815e-32	1.000000

1000.00000 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.18817e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.695517	0.695517	0.717636	0.717636
rad22	0.162937	0.858454	0.168118	0.885754
rad23	0.0852218	0.943676	0.0879319	0.973686
Benzyl+C2H2	0.0308209	0.974497	0.000000	0.973686
rad45	0.0153425	0.989839	0.0158304	0.989516
rad6	0.00466774	0.994507	0.00481618	0.994332
rad18	0.00246930	0.996976	0.00254782	0.996880
rad11	0.00118658	0.998163	0.00122431	0.998105
rad36	0.000713478	0.998876	0.000736168	0.998841
rad20	0.000657766	0.999534	0.000678684	0.999519
rad21	0.000447430	0.999981	0.000461659	0.999981
PAH9+H	6.66704e-06	0.999988	6.87905e-06	0.999988
rad38	2.62459e-06	0.999991	2.70806e-06	0.999991
rad30	2.18196e-06	0.999993	2.25135e-06	0.999993
rad7	2.01676e-06	0.999995	2.08090e-06	0.999995
rad35	1.50538e-06	0.999996	1.55325e-06	0.999997
PhCHCCH2+H	9.85164e-07	0.999997	1.01649e-06	0.999998
rad9	6.23775e-07	0.999998	6.43611e-07	0.999998
Ph+Allene	6.13917e-07	0.999999	6.33441e-07	0.999999
rad46	3.72437e-07	0.999999	3.84281e-07	0.999999
PhCCH+CH3	3.27796e-07	0.999999	3.38221e-07	1.000000
PhCH2CCH+H	2.30712e-07	1.000000	2.38049e-07	1.000000
PAH7+H	8.50122e-08	1.000000	8.77156e-08	1.000000
rad2	5.86304e-08	1.000000	6.04949e-08	1.000000
rad28	5.73119e-08	1.000000	5.91345e-08	1.000000
Ph+MeAc	4.84497e-08	1.000000	4.99904e-08	1.000000
rad50	4.07483e-08	1.000000	4.20441e-08	1.000000
PhCCCH3+H	3.23907e-08	1.000000	3.34207e-08	1.000000

rad39	1.66688e-08	1.000000	1.71989e-08	1.00000
rad3	1.41515e-08	1.000000	1.46016e-08	1.00000
rad13	1.06112e-08	1.00000	1.09486e-08	1.00000
rad25	9.68289e-09	1.00000	9.99081e-09	1.00000
rad4	7.96906e-09	1.00000	8.22248e-09	1.00000
rad1	7.00293e-09	1.00000	7.22563e-09	1.00000
rad19anti	6.29128e-09	1.00000	6.49135e-09	1.00000
rad10	5.39888e-09	1.00000	5.57057e-09	1.00000
rad51	3.15185e-09	1.00000	3.25208e-09	1.00000
rad60syn	2.51758e-09	1.00000	2.59764e-09	1.00000
rad26	1.89578e-09	1.00000	1.95606e-09	1.00000
PAH3+H	1.78380e-09	1.00000	1.84053e-09	1.00000
rad52	1.76891e-09	1.00000	1.82517e-09	1.00000
rad24	1.49332e-09	1.00000	1.54081e-09	1.00000
rad60anti	1.17429e-09	1.00000	1.21164e-09	1.00000
rad15	8.59901e-10	1.00000	8.87246e-10	1.00000
rad59	2.62200e-10	1.00000	2.70539e-10	1.00000
rad37	2.27896e-10	1.00000	2.35143e-10	1.00000
rad19syn	1.82638e-10	1.00000	1.88446e-10	1.00000
rad65	9.30661e-11	1.00000	9.60257e-11	1.00000
PAH10+CH3	8.98689e-11	1.00000	9.27268e-11	1.00000
rad54	5.72061e-11	1.00000	5.90253e-11	1.00000
PhcycC3H3_A+H	3.91337e-11	1.00000	4.03782e-11	1.00000
PAH1+H	3.84668e-11	1.00000	3.96900e-11	1.00000
rad33	2.06692e-11	1.00000	2.13265e-11	1.00000
rad67	2.05401e-11	1.00000	2.11933e-11	1.00000
rad70	1.05241e-11	1.00000	1.08587e-11	1.00000
rad73	6.03528e-12	1.00000	6.22721e-12	1.00000
rad71	4.76399e-12	1.00000	4.91548e-12	1.00000
rad58	3.24404e-12	1.00000	3.34720e-12	1.00000
rad55	2.81243e-12	1.00000	2.90187e-12	1.00000
rad14	2.62841e-12	1.00000	2.71200e-12	1.00000
rad34	1.65386e-12	1.00000	1.70645e-12	1.00000
rad62	1.06346e-12	1.00000	1.09728e-12	1.00000
rad64	4.07443e-13	1.00000	4.20400e-13	1.00000
rad43	2.66043e-13	1.00000	2.74503e-13	1.00000
rad53	1.87275e-13	1.00000	1.93230e-13	1.00000
rad27	1.48217e-13	1.00000	1.52930e-13	1.00000
rad56	9.90791e-14	1.00000	1.02230e-13	1.00000
rad72	5.37819e-14	1.00000	5.54922e-14	1.00000
PAH8+H	4.21608e-14	1.00000	4.35016e-14	1.00000
rad61	3.99125e-14	1.00000	4.11818e-14	1.00000
rad5	3.50628e-14	1.00000	3.61778e-14	1.00000
rad12	3.11898e-14	1.00000	3.21817e-14	1.00000
rad68syn	3.11035e-14	1.00000	3.20927e-14	1.00000
rad42	2.65885e-14	1.00000	2.74340e-14	1.00000
rad68anti	2.05748e-14	1.00000	2.12291e-14	1.00000
rad31	1.52546e-14	1.00000	1.57397e-14	1.00000
rad40syn	6.92806e-15	1.00000	7.14838e-15	1.00000
rad41	4.00748e-15	1.00000	4.13493e-15	1.00000
rad40anti	3.59026e-15	1.00000	3.70443e-15	1.00000
rad47	1.71416e-15	1.00000	1.76867e-15	1.00000
rad8	5.18629e-28	1.00000	5.35121e-28	1.00000

1000.00000 Pa, 600.000000 K

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

Total | 1.36947e-17 (1.00) | 1.26222e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.785223	0.785223	0.851940	0.851940
Benzyl+C2H2	0.0783119	0.863535	0.00000	0.851940
rad22	0.0582586	0.921794	0.0632086	0.915149
rad23	0.0572242	0.979018	0.0620863	0.977235
rad45	0.00954019	0.988558	0.0103508	0.987586
rad6	0.00909273	0.997651	0.00986530	0.997451
rad11	0.000597969	0.998249	0.000648776	0.998100
rad36	0.000557239	0.998806	0.000604585	0.998704
rad18	0.000516316	0.999322	0.000560185	0.999265
rad20	0.000210859	0.999533	0.000228775	0.999493
rad21	0.000150760	0.999684	0.000163569	0.999657
PAH9+H	0.000126215	0.999810	0.000136939	0.999794
rad38	5.48601e-05	0.999865	5.95213e-05	0.999853
Ph+Allene	2.50333e-05	0.999890	2.71602e-05	0.999881
rad35	2.25370e-05	0.999912	2.44518e-05	0.999905
PhCHCCH2+H	1.70644e-05	0.999929	1.85143e-05	0.999923
PhCH2CCH+H	1.34513e-05	0.999943	1.45942e-05	0.999938
rad46	1.33901e-05	0.999956	1.45278e-05	0.999953

PAH7+H	8.27324e-06	0.999965	8.97618e-06	0.999962
rad30	7.87414e-06	0.999972	8.54317e-06	0.999970
PhCCH+CH3	6.70041e-06	0.999979	7.26972e-06	0.999977
rad50	6.41460e-06	0.999986	6.95962e-06	0.999984
rad7	4.40127e-06	0.999990	4.77522e-06	0.999989
rad39	2.66175e-06	0.999993	2.88791e-06	0.999992
rad9	1.97648e-06	0.999995	2.14441e-06	0.999994
rad51	1.39971e-06	0.999996	1.51863e-06	0.999996
Ph+MeAc	1.18281e-06	0.999997	1.28330e-06	0.999997
rad28	6.50818e-07	0.999998	7.06116e-07	0.999998
PhCCCH3+H	5.70400e-07	0.999998	6.18864e-07	0.999998
rad52	4.76809e-07	0.999999	5.17322e-07	0.999999
rad19anti	4.11454e-07	0.999999	4.46413e-07	0.999999
rad2	2.96044e-07	1.000000	3.21197e-07	1.000000
PAH3+H	2.17108e-07	1.000000	2.35555e-07	1.000000
PAH10+CH3	8.59799e-08	1.000000	9.32852e-08	1.000000
rad3	5.83255e-08	1.000000	6.32812e-08	1.000000
rad37	5.43441e-08	1.000000	5.89615e-08	1.000000
rad1	4.37990e-08	1.000000	4.75204e-08	1.000000
rad60syn	4.12931e-08	1.000000	4.48016e-08	1.000000
PAH1+H	4.03417e-08	1.000000	4.37694e-08	1.000000
rad65	3.82897e-08	1.000000	4.15430e-08	1.000000
rad4	3.55048e-08	1.000000	3.85215e-08	1.000000
rad71	2.79530e-08	1.000000	3.03280e-08	1.000000
rad13	2.49817e-08	1.000000	2.71043e-08	1.000000
rad59	2.31060e-08	1.000000	2.50692e-08	1.000000
rad60anti	2.27290e-08	1.000000	2.46602e-08	1.000000
rad73	2.20200e-08	1.000000	2.38909e-08	1.000000
rad19syn	2.09012e-08	1.000000	2.26771e-08	1.000000
rad10	1.88869e-08	1.000000	2.04916e-08	1.000000
rad26	1.44293e-08	1.000000	1.56553e-08	1.000000
rad67	1.22781e-08	1.000000	1.33213e-08	1.000000
PhcycC3H3_A+H	9.52439e-09	1.000000	1.03336e-08	1.000000
rad25	8.07284e-09	1.000000	8.75876e-09	1.000000
rad54	7.92595e-09	1.000000	8.59938e-09	1.000000
rad24	7.43180e-09	1.000000	8.06324e-09	1.000000
rad70	5.47883e-09	1.000000	5.94434e-09	1.000000
rad15	2.57984e-09	1.000000	2.79904e-09	1.000000
rad58	1.68216e-09	1.000000	1.82508e-09	1.000000
rad34	1.36533e-09	1.000000	1.48134e-09	1.000000
rad72	7.93310e-10	1.000000	8.60714e-10	1.000000
rad64	7.02188e-10	1.000000	7.61850e-10	1.000000
rad55	5.19090e-10	1.000000	5.63194e-10	1.000000
PAH8+H	3.08966e-10	1.000000	3.35218e-10	1.000000
rad62	3.02934e-10	1.000000	3.28673e-10	1.000000
rad61	1.42696e-10	1.000000	1.54820e-10	1.000000
rad53	1.02823e-10	1.000000	1.11559e-10	1.000000
rad68syn	9.94018e-11	1.000000	1.07848e-10	1.000000
rad56	9.56382e-11	1.000000	1.03764e-10	1.000000
rad33	7.00304e-11	1.000000	7.59806e-11	1.000000
rad43	6.55991e-11	1.000000	7.11728e-11	1.000000
rad68anti	6.47097e-11	1.000000	7.02078e-11	1.000000
rad40syn	3.70403e-11	1.000000	4.01875e-11	1.000000
rad42	2.42947e-11	1.000000	2.63590e-11	1.000000
rad40anti	2.19733e-11	1.000000	2.38402e-11	1.000000
rad14	8.88826e-12	1.000000	9.64346e-12	1.000000
rad41	4.67709e-12	1.000000	5.07448e-12	1.000000
rad47	1.20079e-12	1.000000	1.30282e-12	1.000000
rad27	5.78523e-13	1.000000	6.27677e-13	1.000000
rad12	5.28101e-13	1.000000	5.72972e-13	1.000000
rad31	4.39982e-13	1.000000	4.77365e-13	1.000000
rad5	1.81348e-13	1.000000	1.96756e-13	1.000000
rad8	7.86257e-24	1.000000	8.53062e-24	1.000000

1000.00000 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	6.78087e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.780614	0.780614	0.923562	0.923562
Benzyl+C2H2	0.154779	0.935393	0.000000	0.923562
rad23	0.0271334	0.962526	0.0321021	0.955664
rad22	0.0170553	0.979582	0.0201786	0.975843
rad6	0.0133117	0.992893	0.0157494	0.991592
rad45	0.00403245	0.996926	0.00477088	0.996363
PAH9+H	0.000803346	0.997729	0.000950456	0.997313
rad38	0.000372934	0.998102	0.000441226	0.997755

rad36	0.000273277	0.998375	0.000323320	0.998078
rad11	0.000237182	0.998613	0.000280616	0.998359
Ph+Allene	0.000184691	0.998797	0.000218512	0.998577
rad18	0.000135084	0.998932	0.000159821	0.998737
rad35	0.000124608	0.999057	0.000147427	0.998884
PhCH2CCH+H	0.000121992	0.999179	0.000144331	0.999029
rad20	0.000119490	0.999298	0.000141371	0.999170
PhCHCCH2+H	0.000116289	0.999415	0.000137584	0.999308
rad46	0.000116033	0.999531	0.000137281	0.999445
PAH7+H	0.000103052	0.999634	0.000121923	0.999567
rad50	9.39609e-05	0.999728	0.000111167	0.999678
rad21	9.12162e-05	0.999819	0.000107920	0.999786
rad39	4.15748e-05	0.999861	4.91881e-05	0.999835
PhCCH+CH3	4.06798e-05	0.999901	4.81292e-05	0.999883
rad51	2.65194e-05	0.999928	3.13757e-05	0.999915
rad30	2.11471e-05	0.999949	2.50196e-05	0.999940
Ph+MeAc	8.51389e-06	0.999957	1.00730e-05	0.999950
rad52	7.99367e-06	0.999965	9.45749e-06	0.999959
rad7	6.91741e-06	0.999972	8.18414e-06	0.999967
rad19anti	4.50479e-06	0.999977	5.32971e-06	0.999973
PhCCCH3+H	3.81893e-06	0.999981	4.51826e-06	0.999977
rad9	3.79248e-06	0.999984	4.48697e-06	0.999982
rad28	3.41809e-06	0.999988	4.04401e-06	0.999986
PAH3+H	3.12278e-06	0.999991	3.69462e-06	0.999989
PAH10+CH3	1.84126e-06	0.999993	2.17844e-06	0.999992
PAH1+H	9.18706e-07	0.999994	1.08694e-06	0.999993
rad71	8.42732e-07	0.999995	9.97055e-07	0.999994
rad37	8.35080e-07	0.999995	9.88001e-07	0.999995
rad2	8.03658e-07	0.999996	9.50825e-07	0.999996
rad65	7.03423e-07	0.999997	8.32235e-07	0.999996
rad73	6.15762e-07	0.999998	7.28522e-07	0.999997
rad60syn	3.30730e-07	0.999998	3.91294e-07	0.999998
rad59	3.03204e-07	0.999998	3.58728e-07	0.999998
rad67	2.38512e-07	0.999998	2.82189e-07	0.999998
rad19syn	2.22001e-07	0.999999	2.62654e-07	0.999998
rad60anti	1.95529e-07	0.999999	2.31334e-07	0.999999
rad1	1.39336e-07	0.999999	1.64851e-07	0.999999
PhcycC3H3_A+H	1.33927e-07	0.999999	1.58451e-07	0.999999
rad3	1.23253e-07	0.999999	1.45823e-07	0.999999
rad70	1.15601e-07	0.999999	1.36770e-07	0.999999
rad54	8.86079e-08	0.999999	1.04834e-07	0.999999
rad4	8.09530e-08	1.000000	9.57773e-08	1.000000
rad13	5.51098e-08	1.000000	6.52017e-08	1.000000
rad24	5.40925e-08	1.000000	6.39980e-08	1.000000
rad26	4.89208e-08	1.000000	5.78793e-08	1.000000
rad10	3.56070e-08	1.000000	4.21274e-08	1.000000
rad58	3.26197e-08	1.000000	3.85931e-08	1.000000
rad34	3.15143e-08	1.000000	3.72852e-08	1.000000
rad72	2.72350e-08	1.000000	3.22223e-08	1.000000
rad64	1.73081e-08	1.000000	2.04776e-08	1.000000
PAH8+H	9.83756e-09	1.000000	1.16390e-08	1.000000
rad62	6.64998e-09	1.000000	7.86774e-09	1.000000
rad55	6.48147e-09	1.000000	7.66837e-09	1.000000
rad25	5.53950e-09	1.000000	6.55391e-09	1.000000
rad61	3.90070e-09	1.000000	4.61501e-09	1.000000
rad15	3.40595e-09	1.000000	4.02966e-09	1.000000
rad68syn	2.83022e-09	1.000000	3.34849e-09	1.000000
rad56	1.96406e-09	1.000000	2.32373e-09	1.000000
rad68anti	1.83828e-09	1.000000	2.17491e-09	1.000000
rad53	1.83474e-09	1.000000	2.17073e-09	1.000000
rad43	1.44705e-09	1.000000	1.71204e-09	1.000000
rad40syn	1.13159e-09	1.000000	1.33881e-09	1.000000
rad40anti	6.83379e-10	1.000000	8.08520e-10	1.000000
rad42	6.42701e-10	1.000000	7.60394e-10	1.000000
rad33	2.84547e-10	1.000000	3.36654e-10	1.000000
rad41	1.26978e-10	1.000000	1.50231e-10	1.000000
rad47	1.14463e-10	1.000000	1.35424e-10	1.000000
rad14	2.10151e-11	1.000000	2.48635e-11	1.000000
rad12	1.08435e-11	1.000000	1.28292e-11	1.000000
rad31	2.95523e-12	1.000000	3.49640e-12	1.000000
rad27	1.62506e-12	1.000000	1.92264e-12	1.000000
rad5	4.49519e-13	1.000000	5.31836e-13	1.000000
rad8	1.46372e-19	1.000000	1.73175e-19	1.000000

1000.00000 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.12228e-16 (1.00)	2.33416e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.707969	0.707969	0.947010	0.947010
Benzyl+C2H2	0.252417	0.960386	0.00000	0.947010
rad6	0.0159444	0.976330	0.0213280	0.968338
rad23	0.0113403	0.987671	0.0151692	0.983507
rad22	0.00484622	0.992517	0.00648253	0.989990
rad45	0.00179318	0.994310	0.00239863	0.992388
PAH9+H	0.00169008	0.996000	0.00226073	0.994649
rad38	0.000803804	0.996804	0.00107520	0.995724
Ph+Allene	0.000475375	0.997279	0.000635883	0.996360
PhCHCCH2+H	0.000321950	0.997601	0.000430655	0.996791
PhCH2CCH+H	0.000315099	0.997916	0.000421490	0.997212
PAH7+H	0.000272957	0.998189	0.000365120	0.997577
rad46	0.000270378	0.998460	0.000361670	0.997939
rad50	0.000256139	0.998716	0.000342623	0.998282
rad35	0.000249181	0.998965	0.000333316	0.998615
PhCCH+CH3	0.000153022	0.999118	0.000204690	0.998820
rad36	0.000136090	0.999254	0.000182040	0.999002
rad20	0.000120920	0.999375	0.000161748	0.999164
rad39	0.000117254	0.999492	0.000156844	0.999320
rad11	9.97679e-05	0.999592	0.000133454	0.999454
rad21	9.57235e-05	0.999688	0.000128044	0.999582
rad51	7.75248e-05	0.999765	0.000103701	0.999686
rad18	5.56369e-05	0.999821	7.44224e-05	0.999760
rad30	4.20875e-05	0.999863	5.62981e-05	0.999816
Ph+MeAc	2.96835e-05	0.999893	3.97060e-05	0.999856
rad52	2.25792e-05	0.999915	3.02030e-05	0.999886
PhCCCH3+H	1.31728e-05	0.999929	1.76205e-05	0.999904
rad19anti	1.21964e-05	0.999941	1.63145e-05	0.999920
rad7	9.33799e-06	0.999950	1.24909e-05	0.999933
rad28	9.23289e-06	0.999959	1.23503e-05	0.999945
PAH3+H	8.70864e-06	0.999968	1.16491e-05	0.999957
rad9	7.41753e-06	0.999975	9.92202e-06	0.999967
PAH10+CH3	5.55752e-06	0.999981	7.43399e-06	0.999974
PAH1+H	2.83152e-06	0.999984	3.78757e-06	0.999978
rad71	2.80485e-06	0.999987	3.75189e-06	0.999982
rad37	2.29308e-06	0.999989	3.06732e-06	0.999985
rad65	2.03613e-06	0.999991	2.72362e-06	0.999987
rad73	2.00649e-06	0.999993	2.68396e-06	0.999990
rad2	1.21836e-06	0.999994	1.62974e-06	0.999992
rad60syn	8.99315e-07	0.999995	1.20296e-06	0.999993
rad59	8.36946e-07	0.999996	1.11954e-06	0.999994
rad67	7.04666e-07	0.999997	9.42593e-07	0.999995
rad19syn	5.54051e-07	0.999997	7.41123e-07	0.999996
rad60anti	5.34074e-07	0.999998	7.14401e-07	0.999996
PhcycC3H3_A+H	3.56820e-07	0.999998	4.77298e-07	0.999997
rad70	3.51685e-07	0.999998	4.70430e-07	0.999997
rad24	2.44138e-07	0.999999	3.26569e-07	0.999998
rad1	2.26896e-07	0.999999	3.03506e-07	0.999998
rad54	2.21145e-07	0.999999	2.95814e-07	0.999998
rad3	1.66886e-07	0.999999	2.23235e-07	0.999998
rad13	1.39972e-07	0.999999	1.87233e-07	0.999999
rad4	1.15035e-07	1.000000	1.53876e-07	0.999999
rad26	1.02834e-07	1.000000	1.37555e-07	0.999999
rad34	9.80362e-08	1.000000	1.31138e-07	0.999999
rad58	9.60484e-08	1.000000	1.28479e-07	0.999999
rad72	9.40338e-08	1.000000	1.25784e-07	0.999999
rad64	5.44709e-08	1.000000	7.28627e-08	0.999999
rad10	4.83557e-08	1.000000	6.46828e-08	0.999999
PAH8+H	3.33221e-08	1.000000	4.45732e-08	0.999999
rad62	2.10713e-08	1.000000	2.81859e-08	1.000000
rad55	1.66348e-08	1.000000	2.22515e-08	1.000000
rad61	1.26210e-08	1.000000	1.68825e-08	1.000000
rad68syn	9.29608e-09	1.000000	1.24348e-08	1.000000
rad68anti	6.03433e-09	1.000000	8.07179e-09	1.000000
rad56	5.84343e-09	1.000000	7.81643e-09	1.000000
rad53	5.23702e-09	1.000000	7.00527e-09	1.000000
rad43	4.93547e-09	1.000000	6.60190e-09	1.000000
rad25	4.74281e-09	1.000000	6.34420e-09	1.000000
rad40syn	3.79099e-09	1.000000	5.07100e-09	1.000000
rad15	3.68293e-09	1.000000	4.92644e-09	1.000000
rad40anti	2.30164e-09	1.000000	3.07878e-09	1.000000
rad42	2.10576e-09	1.000000	2.81676e-09	1.000000
rad33	1.75081e-09	1.000000	2.34196e-09	1.000000
rad47	7.20600e-10	1.000000	9.63907e-10	1.000000
rad41	4.40945e-10	1.000000	5.89827e-10	1.000000
rad12	1.98237e-10	1.000000	2.65170e-10	1.000000
rad14	5.03655e-11	1.000000	6.73711e-11	1.000000
rad31	9.02926e-12	1.000000	1.20779e-11	1.000000

rad27	4.75075e-12	1.00000	6.35481e-12	1.000000
rad5	7.82709e-13	1.00000	1.04699e-12	1.000000
rad8	9.12346e-16	1.00000	1.22039e-15	1.000000

1000.00000 Pa, 900.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	9.21769e-16 (1.00)		5.91902e-16 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.611940	0.611940	0.952974	0.952974
Benzyl+C2H2	0.357863	0.969803	0.00000	0.952974
rad6	0.0157097	0.985513	0.0244648	0.977439
rad23	0.00470200	0.990215	0.00732243	0.984761
PAH9+H	0.00185182	0.992067	0.00288383	0.987645
rad22	0.00136833	0.993435	0.00213090	0.989776
rad45	0.00101021	0.994445	0.00157320	0.991349
Ph+Allene	0.000904814	0.995350	0.00140907	0.992758
rad38	0.000887602	0.996237	0.00138226	0.994140
PhCHCCH2+H	0.000630859	0.996868	0.000982436	0.995123
PhCH2CCH+H	0.000512432	0.997381	0.000798010	0.995921
PhCCH+CH3	0.000432174	0.997813	0.000673024	0.996594
PAH7+H	0.000344115	0.998157	0.000535890	0.997130
rad50	0.000307750	0.998465	0.000479259	0.997609
rad46	0.000306416	0.998771	0.000477182	0.998086
rad35	0.000268919	0.999040	0.000418787	0.998505
rad39	0.000147404	0.999188	0.000229552	0.998735
rad20	0.000141379	0.999329	0.000220170	0.998955
rad21	0.000107604	0.999437	0.000167572	0.999122
rad51	9.58020e-05	0.999532	0.000149192	0.999272
rad36	8.44021e-05	0.999617	0.000131439	0.999403
Ph+MeAc	7.21861e-05	0.999689	0.000112415	0.999515
rad30	6.72304e-05	0.999756	0.000104698	0.999620
rad11	5.25728e-05	0.999809	8.18715e-05	0.999702
rad18	3.19581e-05	0.999841	4.97683e-05	0.999752
PhCCCH3+H	3.08928e-05	0.999872	4.81093e-05	0.999800
rad52	2.75093e-05	0.999899	4.28403e-05	0.999843
rad19anti	1.87385e-05	0.999918	2.91815e-05	0.999872
rad28	1.49050e-05	0.999933	2.32115e-05	0.999895
rad7	1.17598e-05	0.999944	1.83135e-05	0.999913
rad9	1.17116e-05	0.999956	1.82385e-05	0.999932
PAH3+H	1.15645e-05	0.999968	1.80093e-05	0.999950
PAH10+CH3	6.97383e-06	0.999975	1.08603e-05	0.999961
rad71	3.67032e-06	0.999978	5.71579e-06	0.999966
PAH1+H	3.58180e-06	0.999982	5.57793e-06	0.999972
rad37	2.79524e-06	0.999985	4.35303e-06	0.999976
rad73	2.59977e-06	0.999987	4.04862e-06	0.999980
rad65	2.50508e-06	0.999990	3.90115e-06	0.999984
rad60syn	1.47220e-06	0.999991	2.29265e-06	0.999986
rad2	1.38673e-06	0.999993	2.15956e-06	0.999989
rad59	1.15293e-06	0.999994	1.79546e-06	0.999990
rad67	9.27614e-07	0.999995	1.44457e-06	0.999992
rad60anti	8.59876e-07	0.999996	1.33909e-06	0.999993
rad19syn	7.37088e-07	0.999996	1.14787e-06	0.999994
rad24	4.74605e-07	0.999997	7.39102e-07	0.999995
rad70	4.45355e-07	0.999997	6.93552e-07	0.999996
PhcycC3H3_A+H	4.35932e-07	0.999998	6.78877e-07	0.999996
rad13	4.29432e-07	0.999998	6.68755e-07	0.999997
rad1	2.82753e-07	0.999998	4.40330e-07	0.999998
rad54	2.81423e-07	0.999999	4.38260e-07	0.999998
rad3	1.92903e-07	0.999999	3.00407e-07	0.999998
rad26	1.54091e-07	0.999999	2.39966e-07	0.999998
rad4	1.40609e-07	0.999999	2.18970e-07	0.999999
rad72	1.25237e-07	0.999999	1.95032e-07	0.999999
rad34	1.24860e-07	1.000000	1.94445e-07	0.999999
rad58	1.20220e-07	1.000000	1.87219e-07	0.999999
rad64	6.94790e-08	1.000000	1.08200e-07	0.999999
rad10	6.34744e-08	1.000000	9.88487e-08	0.999999
PAH8+H	4.40366e-08	1.000000	6.85782e-08	1.000000
rad62	2.80698e-08	1.000000	4.37131e-08	1.000000
rad55	2.04752e-08	1.000000	3.18860e-08	1.000000
rad61	1.63204e-08	1.000000	2.54157e-08	1.000000
rad33	1.23364e-08	1.000000	1.92115e-08	1.000000
rad68syn	1.20969e-08	1.000000	1.88386e-08	1.000000
rad43	7.89522e-09	1.000000	1.22952e-08	1.000000
rad68anti	7.85031e-09	1.000000	1.22253e-08	1.000000
rad56	7.27751e-09	1.000000	1.13333e-08	1.000000
rad53	6.42817e-09	1.000000	1.00106e-08	1.000000

rad25	5.87039e-09	1.000000	9.14195e-09	1.000000
rad40syn	4.98911e-09	1.000000	7.76954e-09	1.000000
rad15	4.21133e-09	1.000000	6.55830e-09	1.000000
rad40anti	3.04078e-09	1.000000	4.73541e-09	1.000000
rad42	2.78855e-09	1.000000	4.34262e-09	1.000000
rad12	1.40142e-09	1.000000	2.18242e-09	1.000000
rad47	1.07958e-09	1.000000	1.68124e-09	1.000000
rad41	6.84964e-10	1.000000	1.06669e-09	1.000000
rad14	1.60966e-10	1.000000	2.50673e-10	1.000000
rad27	2.23072e-11	1.000000	3.47390e-11	1.000000
rad31	1.87458e-11	1.000000	2.91928e-11	1.000000
rad5	1.10824e-12	1.000000	1.72586e-12	1.000000
rad8	5.89045e-13	1.000000	9.17319e-13	1.000000

1000.00000 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.23691e-15 (1.00)	1.20854e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.515653	0.515653	0.954432	0.954432
Benzyl+C2H2	0.459728	0.975381	0.00000	0.954432
rad6	0.0125730	0.987954	0.0232716	0.977704
rad23	0.00209236	0.990046	0.00387279	0.981576
Ph+Allene	0.00172908	0.991775	0.00320039	0.984777
PAH9+H	0.00151253	0.993288	0.00279958	0.987576
PhCHCCH2+H	0.00112495	0.994413	0.00208220	0.989659
PhCCH+CH3	0.000876164	0.995289	0.00162171	0.991280
PhCH2CCH+H	0.000852460	0.996142	0.00157784	0.992858
rad38	0.000724134	0.996866	0.00134031	0.994198
rad45	0.000641757	0.997507	0.00118784	0.995386
rad22	0.000435816	0.997943	0.000806661	0.996193
PAH7+H	0.000337716	0.998281	0.000625086	0.996818
rad50	0.000255328	0.998536	0.000472591	0.997291
rad46	0.000250481	0.998787	0.000463620	0.997754
rad35	0.000220488	0.999007	0.000408106	0.998162
rad20	0.000140507	0.999148	0.000260067	0.998422
rad39	0.000134699	0.999282	0.000249318	0.998672
Ph+MeAc	0.000132489	0.999415	0.000245227	0.998917
rad21	9.67647e-05	0.999512	0.000179104	0.999096
rad30	9.54596e-05	0.999607	0.000176688	0.999273
rad51	8.02558e-05	0.999687	0.000148547	0.999421
rad36	5.60306e-05	0.999743	0.000103708	0.999525
PhCCCH3+H	5.24985e-05	0.999796	9.71706e-05	0.999622
rad11	4.18939e-05	0.999838	7.75423e-05	0.999700
rad19anti	2.70533e-05	0.999865	5.00734e-05	0.999750
rad18	2.35759e-05	0.999888	4.36372e-05	0.999793
rad52	2.29293e-05	0.999911	4.24402e-05	0.999836
rad28	1.59139e-05	0.999927	2.94554e-05	0.999865
rad7	1.50076e-05	0.999942	2.77779e-05	0.999893
rad9	1.31005e-05	0.999955	2.42480e-05	0.999917
PAH3+H	1.29285e-05	0.999968	2.39297e-05	0.999941
PAH10+CH3	5.92700e-06	0.999974	1.09704e-05	0.999952
rad71	3.14196e-06	0.999977	5.81552e-06	0.999958
PAH1+H	3.03807e-06	0.999980	5.62322e-06	0.999964
rad37	2.41897e-06	0.999983	4.47733e-06	0.999968
rad73	2.21693e-06	0.999985	4.10337e-06	0.999972
rad60syn	2.21465e-06	0.999987	4.09913e-06	0.999976
rad65	2.09512e-06	0.999989	3.87790e-06	0.999980
rad59	1.40227e-06	0.999991	2.59550e-06	0.999983
rad13	1.39806e-06	0.999992	2.58770e-06	0.999985
rad2	1.33010e-06	0.999994	2.46190e-06	0.999988
rad60anti	1.27572e-06	0.999995	2.36125e-06	0.999990
rad67	1.01792e-06	0.999996	1.88410e-06	0.999992
rad19syn	9.53984e-07	0.999997	1.76575e-06	0.999994
rad24	5.02513e-07	0.999997	9.30112e-07	0.999995
PhcycC3H3_A+H	4.16102e-07	0.999998	7.70172e-07	0.999996
rad70	3.87461e-07	0.999998	7.17159e-07	0.999996
rad54	3.31774e-07	0.999998	6.14086e-07	0.999997
rad1	2.97086e-07	0.999999	5.49882e-07	0.999997
rad3	1.92273e-07	0.999999	3.55882e-07	0.999998
rad26	1.68100e-07	0.999999	3.11140e-07	0.999998
rad4	1.45356e-07	0.999999	2.69043e-07	0.999998
rad72	1.07959e-07	0.999999	1.99824e-07	0.999999
rad34	1.07223e-07	0.999999	1.98461e-07	0.999999
rad58	1.06733e-07	1.000000	1.97555e-07	0.999999
rad10	9.75560e-08	1.000000	1.80568e-07	0.999999
rad64	5.89585e-08	1.000000	1.09127e-07	0.999999

rad33	5.13639e-08	1.000000	9.50705e-08	0.999999
PAH8+H	3.79545e-08	1.000000	7.02508e-08	0.999999
rad62	2.64249e-08	1.000000	4.89103e-08	0.999999
rad55	2.12691e-08	1.000000	3.93674e-08	1.000000
rad61	1.39888e-08	1.000000	2.58921e-08	1.000000
rad25	1.05628e-08	1.000000	1.95509e-08	1.000000
rad68syn	1.03505e-08	1.000000	1.91579e-08	1.000000
rad43	9.13331e-09	1.000000	1.69050e-08	1.000000
rad68anti	6.71646e-09	1.000000	1.24316e-08	1.000000
rad56	6.19851e-09	1.000000	1.14729e-08	1.000000
rad53	5.55395e-09	1.000000	1.02799e-08	1.000000
rad15	5.15342e-09	1.000000	9.53858e-09	1.000000
rad40syn	4.30087e-09	1.000000	7.96057e-09	1.000000
rad12	4.16460e-09	1.000000	7.70835e-09	1.000000
rad40anti	2.63111e-09	1.000000	4.86997e-09	1.000000
rad42	2.46844e-09	1.000000	4.56888e-09	1.000000
rad47	9.20982e-10	1.000000	1.70466e-09	1.000000
rad41	7.54886e-10	1.000000	1.39723e-09	1.000000
rad14	5.22925e-10	1.000000	9.67892e-10	1.000000
rad27	1.13434e-10	1.000000	2.09958e-10	1.000000
rad8	3.51875e-11	1.000000	6.51293e-11	1.000000
rad31	2.82847e-11	1.000000	5.23528e-11	1.000000
rad5	1.40738e-12	1.000000	2.60495e-12	1.000000

1000.00000 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.11217e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.550456	0.550456	0.000000	0.000000
Indene+H	0.428735	0.979191	0.953711	0.953711
rad6	0.00819429	0.987385	0.0182280	0.971939
Ph+Allene	0.00301382	0.990399	0.00670415	0.978643
PhCHCCH2+H	0.00176607	0.992165	0.00392858	0.982572
PhCH2CCH+H	0.00147247	0.993638	0.00327547	0.985847
PhCCH+CH3	0.00131929	0.994957	0.00293472	0.988782
PAH9+H	0.00110777	0.996065	0.00246420	0.991246
rad23	0.00101789	0.997083	0.00226428	0.993510
rad38	0.000525735	0.997608	0.00116948	0.994680
rad45	0.000411489	0.998020	0.000915347	0.995595
PAH7+H	0.000326842	0.998347	0.000727051	0.996322
Ph+MeAc	0.000189135	0.998536	0.000420725	0.996743
rad50	0.000180608	0.998716	0.000401758	0.997145
rad46	0.000179204	0.998896	0.000398635	0.997543
rad35	0.000164730	0.999060	0.000366438	0.997910
rad22	0.000158031	0.999218	0.000351537	0.998261
rad30	0.000125961	0.999344	0.000280196	0.998542
rad39	0.000114222	0.999459	0.000254084	0.998796
rad20	0.000102198	0.999561	0.000227338	0.999023
PhCCCH3+H	6.72391e-05	0.999628	0.000149572	0.999173
rad21	6.37214e-05	0.999692	0.000141747	0.999314
rad51	5.68186e-05	0.999749	0.000126391	0.999441
rad11	4.53084e-05	0.999794	0.000100787	0.999541
rad19anti	4.02064e-05	0.999834	8.94382e-05	0.999631
rad36	3.66528e-05	0.999871	8.15331e-05	0.999712
rad7	1.95292e-05	0.999890	4.34422e-05	0.999756
rad18	1.95038e-05	0.999910	4.33857e-05	0.999799
PAH3+H	1.68743e-05	0.999927	3.75365e-05	0.999837
rad52	1.62185e-05	0.999943	3.60776e-05	0.999873
rad9	1.38848e-05	0.999957	3.08864e-05	0.999904
rad28	1.24427e-05	0.999969	2.76784e-05	0.999931
PAH10+CH3	4.29719e-06	0.999973	9.55899e-06	0.999941
rad60syn	3.39873e-06	0.999977	7.56038e-06	0.999949
rad13	3.24565e-06	0.999980	7.21986e-06	0.999956
rad71	2.24005e-06	0.999982	4.98294e-06	0.999961
PAH1+H	2.19004e-06	0.999985	4.87168e-06	0.999966
rad59	1.97887e-06	0.999987	4.40195e-06	0.999970
rad60anti	1.95779e-06	0.999988	4.35504e-06	0.999974
rad37	1.86940e-06	0.999990	4.15844e-06	0.999979
rad73	1.57830e-06	0.999992	3.51090e-06	0.999982
rad19syn	1.48696e-06	0.999993	3.30771e-06	0.999985
rad65	1.48278e-06	0.999995	3.29840e-06	0.999989
rad67	1.16900e-06	0.999996	2.60041e-06	0.999991
rad2	1.05869e-06	0.999997	2.35504e-06	0.999994
rad54	4.86509e-07	0.999998	1.08223e-06	0.999995
PhcycC3H3_A+H	4.55857e-07	0.999998	1.01404e-06	0.999996
rad24	4.08108e-07	0.999998	9.07826e-07	0.999997

rad70	3.07569e-07	0.999999	6.84179e-07	0.999997
rad1	2.47914e-07	0.999999	5.51478e-07	0.999998
rad10	1.62539e-07	0.999999	3.61565e-07	0.999998
rad3	1.56113e-07	0.999999	3.47270e-07	0.999999
rad26	1.43433e-07	0.999999	3.19063e-07	0.999999
rad4	1.20165e-07	1.000000	2.67305e-07	0.999999
rad58	9.52630e-08	1.000000	2.11910e-07	0.999999
rad33	9.49219e-08	1.000000	2.11151e-07	1.000000
rad34	8.09333e-08	1.000000	1.80034e-07	1.000000
rad72	7.71712e-08	1.000000	1.71665e-07	1.000000
rad64	4.21430e-08	1.000000	9.37461e-08	1.000000
PAH8+H	2.73221e-08	1.000000	6.07773e-08	1.000000
rad55	2.71273e-08	1.000000	6.03440e-08	1.000000
rad62	2.35571e-08	1.000000	5.24021e-08	1.000000
rad25	1.84550e-08	1.000000	4.10527e-08	1.000000
rad61	1.01031e-08	1.000000	2.24741e-08	1.000000
rad43	8.63243e-09	1.000000	1.92026e-08	1.000000
rad15	8.32329e-09	1.000000	1.85149e-08	1.000000
rad12	7.88998e-09	1.000000	1.75511e-08	1.000000
rad68syn	7.45485e-09	1.000000	1.65831e-08	1.000000
rad68anti	4.83819e-09	1.000000	1.07624e-08	1.000000
rad56	4.81114e-09	1.000000	1.07023e-08	1.000000
rad53	4.67389e-09	1.000000	1.03970e-08	1.000000
rad40syn	3.10375e-09	1.000000	6.90422e-09	1.000000
rad40anti	1.90370e-09	1.000000	4.23474e-09	1.000000
rad42	1.88645e-09	1.000000	4.19635e-09	1.000000
rad14	1.12883e-09	1.000000	2.51105e-09	1.000000
rad41	6.64193e-10	1.000000	1.47748e-09	1.000000
rad47	6.28537e-10	1.000000	1.39816e-09	1.000000
rad8	3.30779e-10	1.000000	7.35809e-10	1.000000
rad27	2.85265e-10	1.000000	6.34564e-10	1.000000
rad31	3.21311e-11	1.000000	7.14747e-11	1.000000
rad5	1.68338e-12	1.000000	3.74464e-12	1.000000

1000.00000 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.84330e-15 (1.00)	3.30263e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.626539	0.626539	0.00000	0.00000
Indene+H	0.354355	0.980894	0.948841	0.948841
rad6	0.00456758	0.985462	0.0122304	0.961071
Ph+Allene	0.00450308	0.989965	0.0120577	0.973129
PhCHCCH2+H	0.00239496	0.992360	0.00641289	0.979542
PhCH2CCH+H	0.00238299	0.994743	0.00638082	0.985923
PhCCH+CH3	0.00157140	0.996314	0.00420767	0.990130
PAH9+H	0.000804595	0.997119	0.00215443	0.992285
rad23	0.000544470	0.997663	0.00145790	0.993743
rad38	0.000375133	0.998038	0.00100448	0.994747
PAH7+H	0.000325011	0.998363	0.000870269	0.995618
rad45	0.000258653	0.998622	0.000692583	0.996310
Ph+MeAc	0.000220066	0.998842	0.000589260	0.996899
rad30	0.000157369	0.998999	0.000421380	0.997321
rad35	0.000124282	0.999124	0.000332785	0.997654
rad46	0.000123695	0.999247	0.000331213	0.997985
rad50	0.000119407	0.999367	0.000319731	0.998305
rad39	9.75700e-05	0.999464	0.000261259	0.998566
PhCCCH3+H	6.83415e-05	0.999533	0.000182995	0.998749
rad22	6.82472e-05	0.999601	0.000182743	0.998932
rad20	6.04187e-05	0.999661	0.000161781	0.999093
rad19anti	5.96031e-05	0.999721	0.000159597	0.999253
rad11	4.98350e-05	0.999771	0.000133441	0.999386
rad51	3.72596e-05	0.999808	9.97685e-05	0.999486
rad21	3.57917e-05	0.999844	9.58380e-05	0.999582
PAH3+H	2.61955e-05	0.999870	7.01425e-05	0.999652
rad7	2.39786e-05	0.999894	6.42064e-05	0.999716
rad36	2.33158e-05	0.999917	6.24316e-05	0.999779
rad18	1.69803e-05	0.999934	4.54675e-05	0.999824
rad9	1.46136e-05	0.999949	3.91302e-05	0.999863
rad52	1.06666e-05	0.999960	2.85615e-05	0.999892
rad28	7.93653e-06	0.999967	2.12513e-05	0.999913
rad60syn	5.15179e-06	0.999973	1.37947e-05	0.999927
rad13	4.09726e-06	0.999977	1.09711e-05	0.999938
rad59	3.14369e-06	0.999980	8.41773e-06	0.999946
rad60anti	2.99379e-06	0.999983	8.01633e-06	0.999954
PAH10+CH3	2.93495e-06	0.999986	7.85878e-06	0.999962
rad19syn	2.42124e-06	0.999988	6.48326e-06	0.999969

PAH1+H	1.50434e-06	0.999990	4.02810e-06	0.999973
rad71	1.46624e-06	0.999991	3.92610e-06	0.999977
rad37	1.43376e-06	0.999993	3.83912e-06	0.999980
rad67	1.36922e-06	0.999994	3.66630e-06	0.999984
rad73	1.03272e-06	0.999995	2.76527e-06	0.999987
rad65	9.73236e-07	0.999996	2.60599e-06	0.999989
rad54	7.93553e-07	0.999997	2.12486e-06	0.999992
rad2	6.74617e-07	0.999997	1.80639e-06	0.999993
PhcycC3H3_A+H	6.51662e-07	0.999998	1.74493e-06	0.999995
rad24	3.10803e-07	0.999998	8.32225e-07	0.999996
rad70	2.69358e-07	0.999999	7.21249e-07	0.999997
rad10	2.30009e-07	0.999999	6.15886e-07	0.999997
rad1	1.61636e-07	0.999999	4.32807e-07	0.999998
rad58	1.12639e-07	0.999999	3.01609e-07	0.999998
rad26	1.05282e-07	0.999999	2.81909e-07	0.999998
rad3	1.02204e-07	0.999999	2.73668e-07	0.999999
rad33	9.64915e-08	0.999999	2.58371e-07	0.999999
rad4	7.94398e-08	1.000000	2.12713e-07	0.999999
rad34	6.38005e-08	1.000000	1.70836e-07	0.999999
rad72	5.05561e-08	1.000000	1.35372e-07	0.999999
rad55	4.24149e-08	1.000000	1.13573e-07	1.000000
rad64	2.82114e-08	1.000000	7.55404e-08	1.000000
rad62	2.29525e-08	1.000000	6.14591e-08	1.000000
rad25	2.21661e-08	1.000000	5.93531e-08	1.000000
PAH8+H	1.82527e-08	1.000000	4.88744e-08	1.000000
rad15	1.81553e-08	1.000000	4.86136e-08	1.000000
rad12	1.17223e-08	1.000000	3.13884e-08	1.000000
rad43	7.21107e-09	1.000000	1.93088e-08	1.000000
rad61	6.76793e-09	1.000000	1.81222e-08	1.000000
rad68syn	5.08423e-09	1.000000	1.36138e-08	1.000000
rad53	4.98901e-09	1.000000	1.33589e-08	1.000000
rad56	4.30890e-09	1.000000	1.15378e-08	1.000000
rad68anti	3.30205e-09	1.000000	8.84175e-09	1.000000
rad40syn	2.08676e-09	1.000000	5.58762e-09	1.000000
rad42	1.44858e-09	1.000000	3.87881e-09	1.000000
rad14	1.36028e-09	1.000000	3.64238e-09	1.000000
rad40anti	1.27833e-09	1.000000	3.42294e-09	1.000000
rad8	1.04933e-09	1.000000	2.80976e-09	1.000000
rad41	4.96274e-10	1.000000	1.32885e-09	1.000000
rad47	3.90816e-10	1.000000	1.04647e-09	1.000000
rad27	3.27788e-10	1.000000	8.77704e-10	1.000000
rad31	2.89483e-11	1.000000	7.75136e-11	1.000000
rad5	1.98542e-12	1.000000	5.31629e-12	1.000000

1000.00000 Pa, 1300.00000 K

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

Total | 1.52810e-14 (1.00) | 4.76984e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.687858	0.687858	0.00000	0.00000
Indene+H	0.292812	0.980670	0.938073	0.938073
Ph+Allene	0.00588546	0.986555	0.0188551	0.956928
PhCH2CCH+H	0.00354525	0.990101	0.0113578	0.968286
PhCHCCH2+H	0.00290406	0.993005	0.00930365	0.977590
rad6	0.00246074	0.995466	0.00788341	0.985473
PhCCH+CH3	0.00158758	0.997053	0.00508608	0.990559
PAH9+H	0.000624280	0.997677	0.00199999	0.992559
rad23	0.000327796	0.998005	0.00105015	0.993609
PAH7+H	0.000323286	0.998328	0.00103570	0.994645
rad38	0.000283538	0.998612	0.000908364	0.995553
Ph+MeAc	0.000222198	0.998834	0.000711848	0.996265
rad30	0.000188503	0.999023	0.000603901	0.996869
rad45	0.000159474	0.999182	0.000510901	0.997380
rad35	0.000101711	0.999284	0.000325850	0.997706
rad46	8.88396e-05	0.999373	0.000284613	0.997990
rad19anti	8.67165e-05	0.999459	0.000277811	0.998268
rad39	8.46110e-05	0.999544	0.000271066	0.998539
rad50	7.82959e-05	0.999622	0.000250834	0.998790
PhCCCH3+H	5.91371e-05	0.999681	0.000189456	0.998980
rad11	4.38154e-05	0.999725	0.000140370	0.999120
PAH3+H	4.29684e-05	0.999768	0.000137657	0.999258
rad22	3.77251e-05	0.999806	0.000120859	0.999378
rad20	3.47665e-05	0.999841	0.000111380	0.999490
rad7	2.47941e-05	0.999866	7.94322e-05	0.999569
rad51	2.38055e-05	0.999889	7.62649e-05	0.999645
rad21	2.02750e-05	0.999910	6.49545e-05	0.999710
rad36	1.45120e-05	0.999924	4.64918e-05	0.999757

rad9	1.43407e-05	0.999938	4.59428e-05	0.999803
rad18	1.35208e-05	0.999952	4.33163e-05	0.999846
rad60syn	7.51150e-06	0.999960	2.40644e-05	0.999870
rad52	6.88779e-06	0.999966	2.20662e-05	0.999892
rad59	5.07357e-06	0.999971	1.62540e-05	0.999909
rad28	4.73787e-06	0.999976	1.51786e-05	0.999924
rad60anti	4.41556e-06	0.999981	1.41460e-05	0.999938
rad19syn	3.69040e-06	0.999984	1.18228e-05	0.999950
rad13	3.19121e-06	0.999988	1.02236e-05	0.999960
PAH10+CH3	2.02068e-06	0.999990	6.47359e-06	0.999966
rad67	1.70603e-06	0.999991	5.46555e-06	0.999972
rad54	1.24103e-06	0.999992	3.97586e-06	0.999976
rad37	1.16784e-06	0.999994	3.74137e-06	0.999980
PAH1+H	1.07394e-06	0.999995	3.44053e-06	0.999983
PhcycC3H3_A+H	1.05285e-06	0.999996	3.37299e-06	0.999986
rad71	9.20713e-07	0.999997	2.94966e-06	0.999989
rad73	6.49050e-07	0.999997	2.07934e-06	0.999991
rad65	6.24160e-07	0.999998	1.99960e-06	0.999993
rad2	3.53299e-07	0.999998	1.13185e-06	0.999995
rad70	2.89811e-07	0.999999	9.28458e-07	0.999996
rad24	2.33447e-07	0.999999	7.47886e-07	0.999996
rad10	2.28050e-07	0.999999	7.30596e-07	0.999997
rad58	1.81920e-07	0.999999	5.82813e-07	0.999998
rad1	8.57802e-08	0.999999	2.74811e-07	0.999998
rad26	7.33798e-08	0.999999	2.35085e-07	0.999998
rad33	7.32964e-08	0.999999	2.34817e-07	0.999998
rad55	6.79738e-08	1.000000	2.17766e-07	0.999999
rad34	6.09743e-08	1.000000	1.95342e-07	0.999999
rad3	5.64123e-08	1.000000	1.80726e-07	0.999999
rad15	4.63975e-08	1.000000	1.48642e-07	0.999999
rad4	4.41401e-08	1.000000	1.41410e-07	0.999999
rad72	3.17269e-08	1.000000	1.01643e-07	0.999999
rad62	2.48478e-08	1.000000	7.96040e-08	0.999999
rad25	1.92231e-08	1.000000	6.15844e-08	0.999999
rad64	1.90464e-08	1.000000	6.10184e-08	1.000000
rad12	1.49378e-08	1.000000	4.78558e-08	1.000000
PAH8+H	1.21613e-08	1.000000	3.89606e-08	1.000000
rad53	7.12951e-09	1.000000	2.28406e-08	1.000000
rad43	5.91183e-09	1.000000	1.89395e-08	1.000000
rad56	5.24244e-09	1.000000	1.67951e-08	1.000000
rad61	4.41515e-09	1.000000	1.41447e-08	1.000000
rad68syn	3.66318e-09	1.000000	1.17356e-08	1.000000
rad68anti	2.38435e-09	1.000000	7.63866e-09	1.000000
rad8	1.97315e-09	1.000000	6.32132e-09	1.000000
rad40syn	1.42069e-09	1.000000	4.55143e-09	1.000000
rad42	1.26249e-09	1.000000	4.04462e-09	1.000000
rad14	1.04846e-09	1.000000	3.35892e-09	1.000000
rad40anti	8.60983e-10	1.000000	2.75831e-09	1.000000
rad41	3.50013e-10	1.000000	1.12133e-09	1.000000
rad47	2.35354e-10	1.000000	7.53998e-10	1.000000
rad27	2.29194e-10	1.000000	7.34261e-10	1.000000
rad31	2.21576e-11	1.000000	7.09857e-11	1.000000
rad5	2.40968e-12	1.000000	7.71982e-12	1.000000

1000.00000 Pa, 1400.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.46691e-14 (1.00)	6.50829e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.736177	0.736177	0.00000	0.00000
Indene+H	0.243064	0.979241	0.921316	0.921316
Ph+Allene	0.00701635	0.986257	0.0265949	0.947911
PhCH2CCH+H	0.00494463	0.991202	0.0187423	0.966653
PhCHCCH2+H	0.00329832	0.994500	0.0125020	0.979155
PhCCH+CH3	0.00145434	0.995955	0.00551256	0.984668
rad6	0.00145151	0.997406	0.00550184	0.990170
PAH9+H	0.000543268	0.997949	0.00205922	0.992229
PAH7+H	0.000318903	0.998268	0.00120878	0.993438
rad38	0.000240028	0.998508	0.000909808	0.994347
rad23	0.000227124	0.998735	0.000860897	0.995208
rad30	0.000218560	0.998954	0.000828435	0.996037
Ph+MeAc	0.000207643	0.999162	0.000787056	0.996824
rad19anti	0.000122803	0.999284	0.000465476	0.997289
rad45	9.72674e-05	0.999382	0.000368685	0.997658
rad35	9.35456e-05	0.999475	0.000354578	0.998013
rad39	7.45217e-05	0.999550	0.000282469	0.998295
rad46	7.12868e-05	0.999621	0.000270207	0.998565

PAH3+H	6.89608e-05	0.999690	0.000261391	0.998827
rad50	5.45968e-05	0.999745	0.000206945	0.999034
PhCCCH3+H	4.72242e-05	0.999792	0.000179000	0.999213
rad11	2.99796e-05	0.999822	0.000113636	0.999326
rad22	2.62919e-05	0.999848	9.96574e-05	0.999426
rad20	2.08549e-05	0.999869	7.90491e-05	0.999505
rad7	1.98905e-05	0.999889	7.53935e-05	0.999580
rad51	1.56476e-05	0.999905	5.93110e-05	0.999640
rad9	1.30773e-05	0.999918	4.95686e-05	0.999689
rad21	1.20715e-05	0.999930	4.57560e-05	0.999735
rad60syn	1.04662e-05	0.999940	3.96712e-05	0.999775
rad18	9.00379e-06	0.999949	3.41282e-05	0.999809
rad36	8.92942e-06	0.999958	3.38463e-05	0.999843
rad59	7.89633e-06	0.999966	2.99305e-05	0.999872
rad60anti	6.22340e-06	0.999972	2.35893e-05	0.999896
rad19syn	5.18265e-06	0.999977	1.96444e-05	0.999916
rad52	4.64864e-06	0.999982	1.76203e-05	0.999933
rad28	3.00324e-06	0.999985	1.13836e-05	0.999945
rad67	2.38626e-06	0.999987	9.04494e-06	0.999954
rad13	2.00233e-06	0.999989	7.58967e-06	0.999961
rad54	1.79677e-06	0.999991	6.81052e-06	0.999968
PhcycC3H3_A+H	1.69673e-06	0.999993	6.36309e-06	0.999975
PAH10+CH3	1.53679e-06	0.999994	5.82510e-06	0.999980
rad37	1.07144e-06	0.999996	4.06123e-06	0.999984
PAH1+H	8.71630e-07	0.999996	3.30385e-06	0.999988
rad71	5.71074e-07	0.999997	2.16461e-06	0.999990
rad65	4.14857e-07	0.999997	1.57248e-06	0.999991
rad73	4.04485e-07	0.999998	1.53317e-06	0.999993
rad70	3.69637e-07	0.999998	1.40108e-06	0.999994
rad58	3.30794e-07	0.999998	1.25385e-06	0.999996
rad24	1.75014e-07	0.999999	6.63377e-07	0.999996
rad2	1.63942e-07	0.999999	6.21410e-07	0.999997
rad10	1.54678e-07	0.999999	5.86295e-07	0.999998
rad55	1.03129e-07	0.999999	3.90902e-07	0.999998
rad15	1.00859e-07	0.999999	3.82299e-07	0.999998
rad34	7.34730e-08	0.999999	2.78494e-07	0.999999
rad26	5.23960e-08	0.999999	1.98603e-07	0.999999
rad33	4.94397e-08	0.999999	1.87398e-07	0.999999
rad1	4.01925e-08	0.999999	1.52347e-07	0.999999
rad62	2.84606e-08	0.999999	1.07878e-07	0.999999
rad3	2.84472e-08	0.999999	1.07827e-07	0.999999
rad4	2.23782e-08	0.999999	8.48231e-08	0.999999
rad72	1.95790e-08	0.999999	7.42128e-08	0.999999
rad12	1.72333e-08	1.000000	6.53216e-08	1.000000
rad25	1.45790e-08	1.000000	5.52607e-08	1.000000
rad64	1.42023e-08	1.000000	5.38326e-08	1.000000
rad53	1.17381e-08	1.000000	4.44925e-08	1.000000
PAH8+H	9.11201e-09	1.000000	3.45384e-08	1.000000
rad56	8.31737e-09	1.000000	3.15264e-08	1.000000
rad43	5.26272e-09	1.000000	1.99479e-08	1.000000
rad68syn	3.27316e-09	1.000000	1.24067e-08	1.000000
rad61	2.97171e-09	1.000000	1.12640e-08	1.000000
rad8	2.87811e-09	1.000000	1.09092e-08	1.000000
rad68anti	2.13881e-09	1.000000	8.10700e-09	1.000000
rad42	1.31252e-09	1.000000	4.97502e-09	1.000000
rad40syn	1.12640e-09	1.000000	4.26955e-09	1.000000
rad14	6.67049e-10	1.000000	2.52840e-09	1.000000
rad40anti	6.63576e-10	1.000000	2.51524e-09	1.000000
rad41	2.71307e-10	1.000000	1.02837e-09	1.000000
rad47	1.44840e-10	1.000000	5.49007e-10	1.000000
rad27	1.30522e-10	1.000000	4.94733e-10	1.000000
rad31	1.55433e-11	1.000000	5.89158e-11	1.000000
rad5	3.07119e-12	1.000000	1.16411e-11	1.000000

1000.00000 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.52661e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.773775	0.773775	0.00000	0.00000
Indene+H	0.203382	0.977157	0.899026	0.899026
Ph+Allene	0.00788539	0.985042	0.0348563	0.933882
PhCH2CCH+H	0.00659132	0.991634	0.0291361	0.963018
PhCHCCH2+H	0.00363017	0.995264	0.0160467	0.979065
PhCCH+CH3	0.00126525	0.996529	0.00559287	0.984658
rad6	0.000967147	0.997496	0.00427515	0.988933
PAH9+H	0.000531894	0.998028	0.00235117	0.991284

PAH7+H	0.000314583	0.998343	0.00139057	0.992675
rad30	0.000247043	0.998590	0.00109202	0.993767
rad38	0.000230533	0.998820	0.00101904	0.994786
Ph+MeAc	0.000188143	0.999008	0.000831661	0.995618
rad23	0.000178636	0.999187	0.000789635	0.996407
rad19anti	6.63965e-05	0.999355	0.000743002	0.997150
PAH3+H	0.000105581	0.999461	0.000466707	0.997617
rad35	9.55736e-05	0.999556	0.000422471	0.998039
rad39	6.72931e-05	0.999624	0.000297461	0.998337
rad46	6.23965e-05	0.999690	0.000293497	0.998630
rad45	5.92353e-05	0.999749	0.000261842	0.998892
rad50	4.42175e-05	0.999793	0.000195458	0.999088
PhCCCH3+H	3.72783e-05	0.999831	0.000164784	0.999252
rad22	2.12038e-05	0.999852	9.37286e-05	0.999346
rad11	1.81809e-05	0.999870	8.03665e-05	0.999427
rad60syn	1.39715e-05	0.999884	6.17594e-05	0.999488
rad20	1.30417e-05	0.999897	5.76491e-05	0.999546
rad7	1.28552e-05	0.999910	5.68247e-05	0.999603
rad59	1.16912e-05	0.999922	5.16793e-05	0.999654
rad51	1.15376e-05	0.999933	5.10005e-05	0.999705
rad9	1.12829e-05	0.999945	4.98747e-05	0.999755
rad60anti	8.39566e-06	0.999953	3.71119e-05	0.999792
rad21	7.49330e-06	0.999960	3.31232e-05	0.999826
rad19syn	6.76296e-06	0.999967	2.98948e-05	0.999855
rad36	5.48538e-06	0.999973	2.42474e-05	0.999880
rad18	5.43179e-06	0.999978	2.40105e-05	0.999904
rad67	3.65478e-06	0.999982	1.61555e-05	0.999920
rad52	3.58999e-06	0.999985	1.58691e-05	0.999936
PhcycC3H3_A+H	2.49399e-06	0.999988	1.10244e-05	0.999947
rad54	2.42659e-06	0.999990	1.07264e-05	0.999957
rad28	2.11185e-06	0.999992	9.33516e-06	0.999967
PAH10+CH3	1.44581e-06	0.999994	6.39102e-06	0.999973
rad13	1.17479e-06	0.999995	5.19302e-06	0.999978
rad37	1.13763e-06	0.999996	5.02873e-06	0.999983
PAH1+H	8.54418e-07	0.999997	3.77685e-06	0.999987
rad58	5.91432e-07	0.999998	2.61435e-06	0.999990
rad70	5.06429e-07	0.999998	2.23860e-06	0.999992
rad71	3.64534e-07	0.999998	1.61138e-06	0.999994
rad65	3.13389e-07	0.999999	1.38529e-06	0.999995
rad73	2.62535e-07	0.999999	1.16050e-06	0.999996
rad15	1.55775e-07	0.999999	6.88583e-07	0.999997
rad55	1.46569e-07	0.999999	6.47888e-07	0.999998
rad24	1.31806e-07	0.999999	5.82629e-07	0.999998
rad34	1.01645e-07	1.000000	4.49310e-07	0.999999
rad10	8.16238e-08	1.000000	3.60807e-07	0.999999
rad2	7.24129e-08	1.000000	3.20092e-07	0.999999
rad26	3.90357e-08	1.000000	1.72552e-07	0.999999
rad62	3.31162e-08	1.000000	1.46386e-07	1.000000
rad33	3.18949e-08	1.000000	1.40987e-07	1.000000
rad53	1.94991e-08	1.000000	8.61931e-08	1.000000
rad12	1.86144e-08	1.000000	8.22826e-08	1.000000
rad1	1.79026e-08	1.000000	7.91363e-08	1.000000
rad56	1.44670e-08	1.000000	6.39495e-08	1.000000
rad3	1.39874e-08	1.000000	6.18297e-08	1.000000
rad64	1.29378e-08	1.000000	5.71898e-08	1.000000
rad72	1.22362e-08	1.000000	5.40887e-08	1.000000
rad4	1.10535e-08	1.000000	4.88606e-08	1.000000
rad25	1.06571e-08	1.000000	4.71085e-08	1.000000
PAH8+H	9.17168e-09	1.000000	4.05422e-08	1.000000
rad43	5.35167e-09	1.000000	2.36564e-08	1.000000
rad68syn	4.00537e-09	1.000000	1.77052e-08	1.000000
rad8	3.66398e-09	1.000000	1.61962e-08	1.000000
rad68anti	2.62522e-09	1.000000	1.16045e-08	1.000000
rad61	2.31388e-09	1.000000	1.02282e-08	1.000000
rad42	1.56326e-09	1.000000	6.91021e-09	1.000000
rad40syn	1.22487e-09	1.000000	5.41437e-09	1.000000
rad40anti	6.95639e-10	1.000000	3.07498e-09	1.000000
rad14	4.06009e-10	1.000000	1.79471e-09	1.000000
rad41	2.63575e-10	1.000000	1.16510e-09	1.000000
rad47	9.89961e-11	1.000000	4.37600e-10	1.000000
rad27	7.04388e-11	1.000000	3.11365e-10	1.000000
rad31	1.05630e-11	1.000000	4.66924e-11	1.000000
rad5	4.05021e-12	1.000000	1.79034e-11	1.000000

1000.00000 Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	1.49310e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837460	0.837460	0.00000	0.00000
Indene+H	0.131793	0.969253	0.810835	0.810835
PhCH2CCH+H	0.0118546	0.981108	0.0729337	0.883769
Ph+Allene	0.000975415	0.990862	0.0600109	0.943780
PhCHCCH2+H	0.00449448	0.995356	0.0276516	0.971431
PhCCH+CH3	0.000794006	0.996150	0.00488500	0.976316
PAH9+H	0.000657693	0.996808	0.00404635	0.980363
rad38	0.000370815	0.997179	0.00228138	0.982644
PAH7+H	0.000355170	0.997534	0.00218513	0.984829
rad30	0.000325452	0.997859	0.00200229	0.986831
rad19anti	0.000319075	0.998178	0.00196306	0.988794
rad6	0.000313576	0.998492	0.00192923	0.990723
PAH3+H	0.000280276	0.998772	0.00172435	0.992448
rad50	0.000164199	0.998936	0.00101021	0.993458
Ph+MeAc	0.000163521	0.999100	0.00100603	0.994464
rad39	0.000154122	0.999254	0.000948213	0.995412
rad35	0.000121895	0.999376	0.000749938	0.996162
rad46	0.000113216	0.999489	0.000696546	0.996859
rad51	0.000105598	0.999595	0.000649677	0.997509
rad71	8.10598e-05	0.999676	0.000498707	0.998007
rad23	7.84332e-05	0.999754	0.000482548	0.998490
PhCCCH3+H	2.88521e-05	0.999783	0.000177508	0.998667
rad59	2.78739e-05	0.999811	0.000171490	0.998839
rad60syn	2.66014e-05	0.999838	0.000163661	0.999013
rad73	2.55382e-05	0.999863	0.000157120	0.999160
rad52	2.00261e-05	0.999883	0.000123207	0.999283
rad60anti	1.78587e-05	0.999901	0.000109873	0.999393
rad72	1.54558e-05	0.999917	9.50893e-05	0.999488
rad19syn	1.12018e-05	0.999928	6.89175e-05	0.999557
rad67	1.10493e-05	0.999939	6.79792e-05	0.999625
rad22	8.90102e-06	0.999948	5.47621e-05	0.999679
PhcycC3H3_A+H	8.87401e-06	0.999957	5.45960e-05	0.999734
PAH1+H	7.26276e-06	0.999964	4.46830e-05	0.999779
PAH10+CH3	6.79243e-06	0.999971	4.17894e-05	0.999821
rad45	5.05987e-06	0.999976	3.11300e-05	0.999852
rad54	4.13060e-06	0.999980	2.54129e-05	0.999877
rad58	2.14828e-06	0.999982	1.32169e-05	0.999890
rad37	2.08501e-06	0.999984	1.28277e-05	0.999903
rad65	1.85954e-06	0.999986	1.14405e-05	0.999915
rad11	1.82444e-06	0.999988	1.12246e-05	0.999926
rad70	1.79236e-06	0.999990	1.10272e-05	0.999937
rad7	1.39838e-06	0.999991	8.60332e-06	0.999945
rad9	1.33925e-06	0.999992	8.23953e-06	0.999954
rad20	1.28405e-06	0.999994	7.89993e-06	0.999962
PAH8+H	1.15884e-06	0.999995	7.12959e-06	0.999969
rad36	8.44022e-07	0.999996	5.19271e-06	0.999974
rad28	8.37660e-07	0.999996	5.15357e-06	0.999979
rad21	6.74093e-07	0.999997	4.14725e-06	0.999983
rad18	6.24073e-07	0.999998	3.83951e-06	0.999987
rad34	5.76164e-07	0.999998	3.54476e-06	0.999991
rad55	3.31454e-07	0.999999	2.03922e-06	0.999993
rad64	2.04224e-07	0.999999	1.25646e-06	0.999994
rad56	1.31826e-07	0.999999	8.11041e-07	0.999995
rad68syn	1.28450e-07	0.999999	7.90269e-07	0.999995
rad62	1.12761e-07	0.999999	6.93747e-07	0.999996
rad53	1.10737e-07	0.999999	6.81289e-07	0.999997
rad40syn	8.45248e-08	0.999999	5.20026e-07	0.999997
rad68anti	8.17928e-08	0.999999	5.03217e-07	0.999998
rad13	8.07354e-08	1.000000	4.96712e-07	0.999998
rad15	6.78001e-08	1.000000	4.17130e-07	0.999999
rad40anti	6.52430e-08	1.000000	4.01397e-07	0.999999
rad61	4.41943e-08	1.000000	2.71898e-07	0.999999
rad42	1.86327e-08	1.000000	1.14635e-07	1.000000
rad24	1.66920e-08	1.000000	1.02695e-07	1.000000
rad43	1.60216e-08	1.000000	9.85705e-08	1.000000
rad26	1.44028e-08	1.000000	8.86111e-08	1.000000
rad10	6.03219e-09	1.000000	3.71121e-08	1.000000
rad12	4.10040e-09	1.000000	2.52271e-08	1.000000
rad41	2.44619e-09	1.000000	1.50498e-08	1.000000
rad33	2.30627e-09	1.000000	1.41889e-08	1.000000
rad2	1.95167e-09	1.000000	1.20073e-08	1.000000
rad8	1.75470e-09	1.000000	1.07955e-08	1.000000
rad25	1.12198e-09	1.000000	6.90278e-09	1.000000
rad1	5.24983e-10	1.000000	3.22987e-09	1.000000
rad3	3.81952e-10	1.000000	2.34990e-09	1.000000
rad47	3.70171e-10	1.000000	2.27742e-09	1.000000
rad4	2.43446e-10	1.000000	1.49777e-09	1.000000
rad14	3.38340e-11	1.000000	2.08158e-10	1.000000

rad5	1.33260e-11	1.000000	8.19864e-11	1.000000
rad27	4.36042e-12	1.000000	2.68268e-11	1.000000

1000.00000 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.47692e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866372	0.866372	0.00000	0.00000
Indene+H	0.0939614	0.960333	0.703156	0.703156
PhCH2CCH+H	0.0189361	0.979270	0.141708	0.844864
Ph+Allene	0.0102307	0.989500	0.0765612	0.921425
PhCHCCH2+H	0.00579942	0.995300	0.0433997	0.964825
PAH9+H	0.000805921	0.996106	0.00603107	0.970856
PhCCH+CH3	0.000529809	0.996635	0.00396480	0.974821
PAH3+H	0.000528523	0.997164	0.00395517	0.978776
rad19anti	0.000484540	0.997648	0.00362603	0.982402
rad38	0.000440581	0.998089	0.00329707	0.985699
rad30	0.000378465	0.998467	0.00283223	0.988531
PAH7+H	0.000374676	0.998842	0.00280387	0.991335
Ph+MeAc	0.000164259	0.999006	0.00122923	0.992564
rad35	0.000160184	0.999167	0.00119873	0.993763
rad50	0.000139588	0.999306	0.00104460	0.994808
rad46	0.000133534	0.999440	0.000999294	0.995807
rad39	0.000113289	0.999553	0.000847795	0.996655
rad51	6.39128e-05	0.999617	0.000478288	0.997133
rad6	5.32374e-05	0.999670	0.000398399	0.997531
rad59	4.93555e-05	0.999719	0.000369349	0.997901
rad60syn	4.01764e-05	0.999760	0.000300658	0.998201
PhCCCH3+H	3.55369e-05	0.999795	0.000265938	0.998467
rad71	3.01173e-05	0.999825	0.000225382	0.998693
rad60anti	2.75534e-05	0.999853	0.000206194	0.998899
rad23	2.56847e-05	0.999879	0.000192210	0.999091
rad67	2.48778e-05	0.999903	0.000186172	0.999277
rad52	1.48343e-05	0.999918	0.000111012	0.999388
rad19syn	1.36915e-05	0.999932	0.000102460	0.999491
PhcycC3H3_A+H	1.13330e-05	0.999943	8.48100e-05	0.999576
rad73	9.88720e-06	0.999953	7.39904e-05	0.999650
PAH10+CH3	9.32969e-06	0.999963	6.98183e-05	0.999719
rad72	5.57029e-06	0.999968	4.16850e-05	0.999761
PAH1+H	5.18381e-06	0.999973	3.87928e-05	0.999800
rad58	5.09845e-06	0.999978	3.81540e-05	0.999838
rad54	5.05632e-06	0.999983	3.78387e-05	0.999876
rad37	3.56862e-06	0.999987	2.67056e-05	0.999903
rad70	2.36900e-06	0.999989	1.77283e-05	0.999920
rad22	1.87303e-06	0.999991	1.40167e-05	0.999934
rad45	1.75775e-06	0.999993	1.31540e-05	0.999948
rad65	1.48776e-06	0.999994	1.11336e-05	0.999959
rad9	7.31279e-07	0.999995	5.47249e-06	0.999964
rad34	6.76984e-07	0.999996	5.06617e-06	0.999969
rad20	5.38457e-07	0.999996	4.02951e-06	0.999973
PAH8+H	5.36838e-07	0.999997	4.01740e-06	0.999977
rad11	4.72127e-07	0.999997	3.53314e-06	0.999981
rad55	4.34223e-07	0.999998	3.24949e-06	0.999984
rad36	3.00787e-07	0.999998	2.25093e-06	0.999986
rad7	2.95303e-07	0.999998	2.20989e-06	0.999989
rad21	2.76696e-07	0.999999	2.07064e-06	0.999991
rad56	2.25861e-07	0.999999	1.69022e-06	0.999992
rad28	2.07081e-07	0.999999	1.54968e-06	0.999994
rad53	1.77920e-07	0.999999	1.33146e-06	0.999995
rad18	1.72511e-07	1.000000	1.29098e-06	0.999996
rad64	1.28047e-07	1.000000	9.58234e-07	0.999997
rad62	1.04981e-07	1.000000	7.85622e-07	0.999998
rad68syn	8.45704e-08	1.000000	6.32878e-07	0.999999
rad68anti	5.41458e-08	1.000000	4.05197e-07	0.999999
rad40syn	4.46660e-08	1.000000	3.34256e-07	1.000000
rad15	3.75253e-08	1.000000	2.80818e-07	1.000000
rad40anti	3.26742e-08	1.000000	2.44516e-07	1.000000
rad61	3.10101e-08	1.000000	2.32063e-07	1.000000
rad43	2.51935e-08	1.000000	1.88534e-07	1.000000
rad13	2.34241e-08	1.000000	1.75293e-07	1.000000
rad42	1.55353e-08	1.000000	1.16258e-07	1.000000
rad24	9.41022e-09	1.000000	7.04209e-08	1.000000
rad26	5.01843e-09	1.000000	3.75551e-08	1.000000
rad12	3.67909e-09	1.000000	2.75323e-08	1.000000
rad41	2.81481e-09	1.000000	2.10645e-08	1.000000
rad8	2.01555e-09	1.000000	1.50833e-08	1.000000

rad10	1.41537e-09	1.00000	1.05918e-08	1.00000
rad33	8.53307e-10	1.00000	6.38568e-09	1.00000
rad25	5.26116e-10	1.00000	3.93716e-09	1.00000
rad2	3.74927e-10	1.00000	2.80575e-09	1.00000
rad47	1.81445e-10	1.00000	1.35783e-09	1.00000
rad1	1.05304e-10	1.00000	7.88038e-10	1.00000
rad3	9.51518e-11	1.00000	7.12064e-10	1.00000
rad4	6.07007e-11	1.00000	4.54251e-10	1.00000
rad5	2.09556e-11	1.00000	1.56820e-10	1.00000
rad14	1.18133e-11	1.00000	8.84040e-11	1.00000
rad27	1.85391e-12	1.00000	1.38736e-11	1.00000

1000.00000 Pa, 2250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	4.00927e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.878188	0.878188	0.00000	0.00000
Indene+H	0.0701485	0.948336	0.575873	0.575873
PhCH2CCH+H	0.0277445	0.976081	0.227764	0.803637
Ph+Allene	0.0106300	0.986711	0.0872652	0.890902
PhCHCCH2+H	0.00766353	0.994375	0.0629125	0.953815
PAH9+H	0.000959424	0.995334	0.00787624	0.961691
PAH3+H	0.000858244	0.996192	0.00704562	0.968737
rad19anti	0.000627984	0.996820	0.00515534	0.973892
rad38	0.000535966	0.997356	0.00439993	0.978292
PAH7+H	0.000463945	0.997820	0.00380868	0.982101
rad30	0.000417327	0.998237	0.00342598	0.985526
PhCCH+CH3	0.000378972	0.998616	0.00311111	0.988638
rad35	0.000202786	0.998819	0.00166474	0.990302
Ph+MeAc	0.000198062	0.999017	0.00162596	0.991928
rad50	0.000188573	0.999206	0.00154806	0.993476
rad46	0.000171561	0.999377	0.00140840	0.994885
rad39	0.000132977	0.999510	0.00109166	0.995976
rad51	7.66276e-05	0.999587	0.000629062	0.996605
rad59	7.58354e-05	0.999663	0.000622559	0.997228
rad60syn	5.44780e-05	0.999717	0.000447229	0.997675
PhCCCH3+H	5.15366e-05	0.999769	0.000423082	0.998098
rad67	4.63915e-05	0.999815	0.000380844	0.998479
rad60anti	3.80071e-05	0.999853	0.000312013	0.998791
rad52	1.95426e-05	0.999873	0.000160432	0.998952
PAH10+CH3	1.78547e-05	0.999891	0.000146575	0.999098
rad19syn	1.70405e-05	0.999908	0.000139891	0.999238
rad71	1.60952e-05	0.999924	0.000132131	0.999370
PhcycC3H3_A+H	1.24482e-05	0.999936	0.000102192	0.999472
rad58	1.00944e-05	0.999946	8.28683e-05	0.999555
rad6	9.25706e-06	0.999956	7.59944e-05	0.999631
PAH1+H	6.98206e-06	0.999963	5.73181e-05	0.999689
rad73	6.23188e-06	0.999969	5.11597e-05	0.999740
rad23	6.07885e-06	0.999975	4.99034e-05	0.999790
rad37	5.76970e-06	0.999981	4.73654e-05	0.999837
rad54	5.61942e-06	0.999986	4.61318e-05	0.999883
rad70	3.80606e-06	0.999990	3.12453e-05	0.999914
rad72	2.51983e-06	0.999993	2.06861e-05	0.999935
rad65	2.05165e-06	0.999995	1.68427e-05	0.999952
rad34	1.13497e-06	0.999996	9.31735e-06	0.999961
rad45	6.93448e-07	0.999996	5.69275e-06	0.999967
PAH8+H	5.69740e-07	0.999997	4.67719e-06	0.999972
rad55	5.00983e-07	0.999998	4.11274e-06	0.999976
rad22	4.60593e-07	0.999998	3.78117e-06	0.999980
rad9	3.90796e-07	0.999998	3.20818e-06	0.999983
rad20	2.64898e-07	0.999999	2.17464e-06	0.999985
rad56	2.41723e-07	0.999999	1.98439e-06	0.999987
rad53	2.05047e-07	0.999999	1.68330e-06	0.999989
rad64	1.63745e-07	0.999999	1.34424e-06	0.999990
rad11	1.59160e-07	0.999999	1.30660e-06	0.999991
rad21	1.32294e-07	1.000000	1.08605e-06	0.999992
rad68syn	1.28433e-07	1.000000	1.05435e-06	0.999993
rad36	1.21248e-07	1.000000	9.95367e-07	0.999994
rad62	1.15005e-07	1.000000	9.44112e-07	0.999995
rad68anti	8.24266e-08	1.000000	6.76669e-07	0.999996
rad7	8.17587e-08	1.000000	6.71185e-07	0.999997
rad18	6.57192e-08	1.000000	5.39511e-07	0.999997
rad40syn	5.70449e-08	1.000000	4.68301e-07	0.999998
rad61	5.29527e-08	1.000000	4.34707e-07	0.999998
rad43	4.95794e-08	1.000000	4.07014e-07	0.999999
rad28	4.20186e-08	1.000000	3.44945e-07	0.999999

rad40anti	3.91060e-08	1.00000	3.21035e-07	0.999999
rad15	2.20933e-08	1.00000	1.81371e-07	0.999999
rad42	1.49933e-08	1.00000	1.23085e-07	0.999999
rad13	7.55862e-09	1.00000	6.20513e-08	1.000000
rad41	5.71242e-09	1.00000	4.68952e-08	1.000000
rad24	5.67780e-09	1.00000	4.66110e-08	1.000000
rad12	3.04102e-09	1.00000	2.49648e-08	1.000000
rad26	2.30407e-09	1.00000	1.89149e-08	1.000000
rad8	2.18213e-09	1.00000	1.79139e-08	1.000000
rad10	6.72210e-10	1.00000	5.51840e-09	1.000000
rad33	3.37897e-10	1.00000	2.77391e-09	1.000000
rad25	2.83105e-10	1.00000	2.32411e-09	1.000000
rad47	1.84817e-10	1.00000	1.51722e-09	1.000000
rad2	1.08720e-10	1.00000	8.92517e-10	1.000000
rad1	3.27363e-11	1.00000	2.68744e-10	1.000000
rad3	2.68111e-11	1.00000	2.20102e-10	1.000000
rad5	2.23506e-11	1.00000	1.83484e-10	1.000000
rad4	1.69867e-11	1.00000	1.39449e-10	1.000000
rad14	5.03056e-12	1.00000	4.12976e-11	1.000000
rad27	1.28062e-12	1.00000	1.05131e-11	1.000000

1000.00000 Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.32896e-13 (1.00)	6.40338e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.879838	0.879838	0.00000	0.00000
Indene+H	0.0541073	0.933945	0.450285	0.450285
PhCH2CCH+H	0.0379680	0.971913	0.315973	0.766258
Ph+Allene	0.0112514	0.983165	0.0936347	0.859893
PhCHCCH2+H	0.00999890	0.993164	0.0832117	0.943104
PAH3+H	0.00124399	0.994408	0.0103526	0.953457
PAH9+H	0.00107182	0.995479	0.00891973	0.962377
rad19anti	0.000730364	0.996210	0.00607814	0.968455
rad38	0.000618108	0.996828	0.00514395	0.973599
PAH7+H	0.000590630	0.997419	0.00491527	0.978514
rad30	0.000442224	0.997861	0.00368022	0.982194
PhCCH+CH3	0.000308217	0.998169	0.00256501	0.984759
rad50	0.000269061	0.998438	0.00223914	0.986998
Ph+MeAc	0.000257124	0.998695	0.00213980	0.989138
rad35	0.000242854	0.998938	0.00202105	0.991159
rad46	0.000209775	0.999148	0.00174577	0.992905
rad39	0.000181857	0.999330	0.00151343	0.994419
rad51	0.000115857	0.999445	0.000964170	0.995383
rad59	0.000104853	0.999550	0.000872595	0.996255
rad67	7.35447e-05	0.999624	0.000612044	0.996867
PhCCCH3+H	7.22921e-05	0.999696	0.000601620	0.997469
rad60syn	6.81964e-05	0.999764	0.000567536	0.998036
rad60anti	4.82460e-05	0.999813	0.000401507	0.998438
PAH10+CH3	3.11803e-05	0.999844	0.000259485	0.998697
rad52	2.88542e-05	0.999873	0.000240127	0.998938
rad19syn	2.36574e-05	0.999896	0.000196879	0.999134
rad58	1.71761e-05	0.999913	0.000142941	0.999277
rad71	1.62622e-05	0.999930	0.000135336	0.999413
PhcycC3H3_A+H	1.53434e-05	0.999945	0.000127689	0.999540
PAH1+H	1.17291e-05	0.999957	9.76101e-05	0.999638
rad37	8.14408e-06	0.999965	6.77756e-05	0.999706
rad73	7.64945e-06	0.999973	6.36593e-05	0.999769
rad54	6.33681e-06	0.999979	5.27354e-05	0.999822
rad70	6.01900e-06	0.999985	5.00906e-05	0.999872
rad65	3.04154e-06	0.999988	2.53119e-05	0.999898
rad6	2.07145e-06	0.999990	1.72388e-05	0.999915
rad34	1.92842e-06	0.999992	1.60484e-05	0.999931
rad23	1.84070e-06	0.999994	1.53184e-05	0.999946
rad72	1.74643e-06	0.999996	1.45339e-05	0.999961
PAH8+H	1.14399e-06	0.999997	9.52034e-06	0.999970
rad55	5.94671e-07	0.999997	4.94890e-06	0.999975
rad56	3.38142e-07	0.999998	2.81405e-06	0.999978
rad45	3.04577e-07	0.999998	2.53472e-06	0.999981
rad64	2.83672e-07	0.999998	2.36074e-06	0.999983
rad53	2.79972e-07	0.999999	2.32995e-06	0.999985
rad68syn	2.55498e-07	0.999999	2.12627e-06	0.999987
rad9	2.10167e-07	0.999999	1.74903e-06	0.999989
rad68anti	1.63763e-07	0.999999	1.36285e-06	0.999991
rad62	1.62404e-07	0.999999	1.35154e-06	0.999992
rad22	1.58745e-07	0.999999	1.32109e-06	0.999993
rad20	1.46289e-07	1.000000	1.21743e-06	0.999994

rad40syn	1.16352e-07	1.000000	9.68293e-07	0.999995
rad61	1.08693e-07	1.000000	9.04549e-07	0.999996
rad43	8.85121e-08	1.000000	7.36605e-07	0.999997
rad40anti	7.97337e-08	1.000000	6.63550e-07	0.999998
rad21	7.07441e-08	1.000000	5.88738e-07	0.999998
rad11	6.39390e-08	1.000000	5.32105e-07	0.999999
rad36	5.42131e-08	1.000000	4.51166e-07	0.999999
rad18	2.97215e-08	1.000000	2.47345e-07	0.999999
rad7	2.56493e-08	1.000000	2.13456e-07	1.000000
rad42	2.15223e-08	1.000000	1.79110e-07	1.000000
rad15	1.31819e-08	1.000000	1.09701e-07	1.000000
rad28	1.18969e-08	1.000000	9.90065e-08	1.000000
rad41	1.15397e-08	1.000000	9.60340e-08	1.000000
rad24	3.59857e-09	1.000000	2.99476e-08	1.000000
rad13	2.64224e-09	1.000000	2.19889e-08	1.000000
rad12	2.39858e-09	1.000000	1.99612e-08	1.000000
rad8	2.26624e-09	1.000000	1.88598e-08	1.000000
rad26	1.33750e-09	1.000000	1.11308e-08	1.000000
rad10	4.19506e-10	1.000000	3.49116e-09	1.000000
rad47	2.62094e-10	1.000000	2.18117e-09	1.000000
rad25	1.72619e-10	1.000000	1.43655e-09	1.000000
rad33	1.43497e-10	1.000000	1.19419e-09	1.000000
rad2	4.70845e-11	1.000000	3.91841e-10	1.000000
rad5	2.28738e-11	1.000000	1.90358e-10	1.000000
rad1	1.56661e-11	1.000000	1.30375e-10	1.000000
rad3	8.42095e-12	1.000000	7.00798e-11	1.000000
rad4	5.25451e-12	1.000000	4.37284e-11	1.000000
rad14	2.67588e-12	1.000000	2.22689e-11	1.000000
rad27	1.08161e-12	1.000000	9.00123e-12	1.000000

1000.00000 Pa, 2750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.05113e-13 (1.00)	1.00489e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.875186	0.875186	0.00000	0.00000
PhCH2CCH+H	0.0492372	0.924423	0.394485	0.394485
Indene+H	0.0426951	0.967118	0.342070	0.736555
PhCHCCH2+H	0.0126541	0.979772	0.101384	0.837939
Ph+Allene	0.0121374	0.991910	0.0972437	0.935183
PAH3+H	0.00165431	0.993564	0.0132542	0.948437
PAH9+H	0.00113135	0.994695	0.00906434	0.957501
rad19anti	0.000789709	0.995485	0.00632709	0.963828
PAH7+H	0.000730906	0.996216	0.00585597	0.969684
rad38	0.000671811	0.996888	0.00538250	0.975067
rad30	0.000454288	0.997342	0.00363972	0.978707
rad50	0.000360045	0.997702	0.00288465	0.981591
Ph+MeAc	0.000331370	0.998034	0.00265491	0.984246
PhCCH+CH3	0.000293197	0.998327	0.00234907	0.986595
rad35	0.000277088	0.998604	0.00222001	0.988815
rad39	0.000245427	0.998849	0.00196634	0.990781
rad46	0.000240098	0.999089	0.00192365	0.992705
rad51	0.000170369	0.999260	0.00136499	0.994070
rad59	0.000133910	0.999394	0.00107288	0.995143
rad67	0.000103339	0.999497	0.000827946	0.995971
PhCCCH3+H	9.47670e-05	0.999592	0.000759266	0.996730
rad60syn	8.03442e-05	0.999672	0.000643712	0.997374
rad60anti	5.75013e-05	0.999730	0.000460696	0.997835
PAH10+CH3	4.76764e-05	0.999777	0.000381980	0.998217
rad52	4.02615e-05	0.999818	0.000322572	0.998539
rad19syn	3.43987e-05	0.999852	0.000275600	0.998815
rad71	2.64723e-05	0.999878	0.000212094	0.999027
rad58	2.60330e-05	0.999904	0.000208575	0.999235
PhcycC3H3_A+H	1.92264e-05	0.999924	0.000154041	0.999390
PAH1+H	1.91228e-05	0.999943	0.000153210	0.999543
rad73	1.27946e-05	0.999956	0.000102509	0.999645
rad37	1.02502e-05	0.999966	8.21242e-05	0.999727
rad70	8.99643e-06	0.999975	7.20788e-05	0.999799
rad54	7.06326e-06	0.999982	5.65903e-05	0.999856
rad65	4.34586e-06	0.999986	3.48188e-05	0.999891
rad34	3.07746e-06	0.999989	2.46564e-05	0.999915
PAH8+H	2.46252e-06	0.999992	1.97295e-05	0.999935
rad72	2.37184e-06	0.999994	1.90030e-05	0.999954
rad55	6.96453e-07	0.999995	5.57993e-06	0.999960
rad23	6.91524e-07	0.999996	5.54044e-06	0.999965
rad6	5.50302e-07	0.999996	4.40898e-06	0.999970
rad56	5.05147e-07	0.999997	4.04720e-06	0.999974

rad68syn	4.87225e-07	0.999997	3.90362e-06	0.999978
rad64	4.82705e-07	0.999998	3.86740e-06	0.999982
rad53	3.90876e-07	0.999998	3.13167e-06	0.999985
rad68anti	3.11754e-07	0.999998	2.49775e-06	0.999987
rad62	2.50484e-07	0.999999	2.00686e-06	0.999989
rad40syn	2.38153e-07	0.999999	1.90806e-06	0.999991
rad61	1.99837e-07	0.999999	1.60108e-06	0.999993
rad40anti	1.66546e-07	0.999999	1.33436e-06	0.999994
rad45	1.45617e-07	0.999999	1.16667e-06	0.999995
rad43	1.38553e-07	0.999999	1.11007e-06	0.999996
rad9	1.15483e-07	1.000000	9.25238e-07	0.999997
rad20	8.82621e-08	1.000000	7.07150e-07	0.999998
rad22	6.70255e-08	1.000000	5.37004e-07	0.999998
rad21	4.12341e-08	1.000000	3.30364e-07	0.999999
rad42	3.66303e-08	1.000000	2.93479e-07	0.999999
rad11	3.02556e-08	1.000000	2.42406e-07	0.999999
rad36	2.63026e-08	1.000000	2.10735e-07	1.000000
rad41	2.04016e-08	1.000000	1.63456e-07	1.000000
rad18	1.50842e-08	1.000000	1.20854e-07	1.000000
rad7	9.04339e-09	1.000000	7.24550e-08	1.000000
rad15	7.95282e-09	1.000000	6.37175e-08	1.000000
rad28	4.61475e-09	1.000000	3.69730e-08	1.000000
rad24	2.36593e-09	1.000000	1.89557e-08	1.000000
rad8	2.28378e-09	1.000000	1.82975e-08	1.000000
rad12	1.84707e-09	1.000000	1.47986e-08	1.000000
rad13	1.02810e-09	1.000000	8.23706e-09	1.000000
rad26	8.34121e-10	1.000000	6.68292e-09	1.000000
rad47	3.73480e-10	1.000000	2.99229e-09	1.000000
rad10	2.81473e-10	1.000000	2.25514e-09	1.000000
rad25	1.17608e-10	1.000000	9.42268e-10	1.000000
rad33	6.69405e-11	1.000000	5.36322e-10	1.000000
rad2	2.62506e-11	1.000000	2.10318e-10	1.000000
rad5	2.26866e-11	1.000000	1.81764e-10	1.000000
rad1	9.75335e-12	1.000000	7.81431e-11	1.000000
rad3	3.03882e-12	1.000000	2.43468e-11	1.000000
rad4	1.85285e-12	1.000000	1.48449e-11	1.000000
rad14	1.80081e-12	1.000000	1.44279e-11	1.000000
rad27	9.44161e-13	1.000000	7.56455e-12	1.000000

1000.00000 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15309e-12 (1.00)	1.53864e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866564	0.866564	0.00000	0.00000
PhCH2CCH+H	0.0611726	0.927737	0.458443	0.458443
Indene+H	0.0342584	0.961995	0.256741	0.715184
PhCHCCH2+H	0.0154797	0.977475	0.116009	0.831193
Ph+Allene	0.0132663	0.990741	0.0994207	0.930614
PAH3+H	0.00205947	0.992800	0.0154342	0.946048
PAH9+H	0.00113874	0.993939	0.00853400	0.954582
PAH7+H	0.000866775	0.994806	0.00649583	0.961078
rad19anti	0.000812836	0.995619	0.00609159	0.967169
rad38	0.000693617	0.996312	0.00519814	0.972367
rad30	0.000455427	0.996768	0.00341308	0.975781
rad50	0.000446588	0.997214	0.00334684	0.979127
Ph+MeAc	0.000411405	0.997626	0.00308317	0.982211
PhCCH+CH3	0.000319071	0.997945	0.00239120	0.984602
rad39	0.000312623	0.998258	0.00234287	0.986945
rad35	0.000303869	0.998561	0.00227727	0.989222
rad46	0.000259194	0.998821	0.00194246	0.991164
rad51	0.000230988	0.999052	0.00173108	0.992895
rad59	0.000160971	0.999213	0.00120636	0.994102
rad67	0.000132872	0.999345	0.000995776	0.995098
PhCCCH3+H	0.000117529	0.999463	0.000880789	0.995978
rad60syn	9.03394e-05	0.999553	0.000677026	0.996655
PAH10+CH3	6.54058e-05	0.999619	0.000490168	0.997146
rad60anti	6.52892e-05	0.999684	0.000489294	0.997635
rad52	5.18126e-05	0.999736	0.000388296	0.998023
rad19syn	5.01222e-05	0.999786	0.000375628	0.998399
rad71	4.58028e-05	0.999832	0.000343258	0.998742
rad58	3.61248e-05	0.999868	0.000270729	0.999013
PAH1+H	2.87175e-05	0.999897	0.000215216	0.999228
PhcycC3H3_A+H	2.34726e-05	0.999920	0.000175910	0.999404
rad73	2.11058e-05	0.999941	0.000158172	0.999562
rad70	1.26667e-05	0.999954	9.49277e-05	0.999657
rad37	1.18411e-05	0.999966	8.87405e-05	0.999746

rad54	7.74598e-06	0.999973	5.80503e-05	0.999804
rad65	5.75116e-06	0.999979	4.31006e-05	0.999847
PAH8+H	4.82052e-06	0.999984	3.61261e-05	0.999883
rad34	4.57963e-06	0.999989	3.43209e-05	0.999917
rad72	4.30841e-06	0.999993	3.22883e-05	0.999950
rad68syn	8.46184e-07	0.999994	6.34152e-06	0.999956
rad55	7.96960e-07	0.999995	5.97262e-06	0.999962
rad64	7.51785e-07	0.999995	5.63407e-06	0.999968
rad56	7.22066e-07	0.999996	5.41134e-06	0.999973
rad68anti	5.40659e-07	0.999997	4.05183e-06	0.999977
rad53	5.24017e-07	0.999997	3.92711e-06	0.999981
rad40syn	4.42049e-07	0.999998	3.31283e-06	0.999984
rad62	3.73955e-07	0.999998	2.80251e-06	0.999987
rad61	3.23178e-07	0.999998	2.42198e-06	0.999989
rad40anti	3.15411e-07	0.999999	2.36377e-06	0.999992
rad23	2.95247e-07	0.999999	2.21265e-06	0.999994
rad43	1.94991e-07	0.999999	1.46131e-06	0.999996
rad6	1.69810e-07	0.999999	1.27260e-06	0.999997
rad45	7.44386e-08	0.999999	5.57862e-07	0.999997
rad9	6.53479e-08	0.999999	4.89733e-07	0.999998
rad42	6.01126e-08	0.999999	4.50499e-07	0.999998
rad20	5.70617e-08	0.999999	4.27634e-07	0.999999
rad22	3.23378e-08	0.999999	2.42348e-07	0.999999
rad41	3.19797e-08	0.999999	2.39664e-07	0.999999
rad21	2.57104e-08	1.000000	1.92680e-07	0.999999
rad11	1.65655e-08	1.000000	1.24146e-07	1.000000
rad36	1.36077e-08	1.000000	1.01980e-07	1.000000
rad18	8.34068e-09	1.000000	6.25072e-08	1.000000
rad15	4.88179e-09	1.000000	3.65854e-08	1.000000
rad7	3.62364e-09	1.000000	2.71565e-08	1.000000
rad8	2.24811e-09	1.000000	1.68479e-08	1.000000
rad28	2.22247e-09	1.000000	1.66558e-08	1.000000
rad24	1.60042e-09	1.000000	1.19939e-08	1.000000
rad12	1.40888e-09	1.000000	1.05585e-08	1.000000
rad26	5.31171e-10	1.000000	3.98073e-09	1.000000
rad47	4.93807e-10	1.000000	3.70071e-09	1.000000
rad13	4.52492e-10	1.000000	3.39109e-09	1.000000
rad10	1.91527e-10	1.000000	1.43535e-09	1.000000
rad25	8.70350e-11	1.000000	6.52262e-10	1.000000
rad33	3.45555e-11	1.000000	2.58967e-10	1.000000
rad5	2.19922e-11	1.000000	1.64815e-10	1.000000
rad2	1.63861e-11	1.000000	1.22801e-10	1.000000
rad1	6.79182e-12	1.000000	5.08996e-11	1.000000
rad14	1.42674e-12	1.000000	1.06923e-11	1.000000
rad3	1.28233e-12	1.000000	9.61012e-12	1.000000
rad27	8.12778e-13	1.000000	6.09116e-12	1.000000
rad4	7.60846e-13	1.000000	5.70197e-12	1.000000

1000.00000 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.58309e-12 (1.00)	2.28796e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.855475	0.855475	0.00000	0.00000
PhCH2CCH+H	0.0734301	0.928905	0.508080	0.508080
Indene+H	0.0278609	0.956766	0.192776	0.700856
PhCHCCH2+H	0.0183612	0.975127	0.127045	0.827901
Ph+Allene	0.0145940	0.989721	0.100979	0.928880
PAH3+H	0.00243649	0.992158	0.0168586	0.945739
PAH9+H	0.00110350	0.993261	0.00763539	0.953374
PAH7+H	0.000986814	0.994248	0.00682798	0.960202
rad19anti	0.000808834	0.995057	0.00559651	0.965798
rad38	0.000686753	0.995744	0.00475180	0.970550
rad50	0.000518822	0.996262	0.00358985	0.974140
Ph+MeAc	0.000489472	0.996752	0.00338677	0.977527
rad30	0.000447971	0.997200	0.00309961	0.980627
PhCCH+CH3	0.000378227	0.997578	0.00261704	0.983244
rad39	0.000375031	0.997953	0.00259493	0.985858
rad35	0.000323023	0.998276	0.00223507	0.988074
rad51	0.000289881	0.998566	0.00200575	0.990079
rad46	0.000266799	0.998833	0.00184604	0.991925
rad59	0.000184697	0.999018	0.00127796	0.993203
rad67	0.000159869	0.999177	0.00110617	0.994309
PhCCCH3+H	0.000140366	0.999318	0.000971225	0.995281
rad60syn	9.79797e-05	0.999416	0.000677943	0.995959
PAH10+CH3	8.26370e-05	0.999498	0.000571784	0.996530
rad71	7.34828e-05	0.999572	0.000508444	0.997039

rad60anti	7.14065e-05	0.999643	0.000494077	0.997533
rad19syn	7.13468e-05	0.999715	0.000493665	0.998027
rad52	6.20513e-05	0.999777	0.000429347	0.998456
rad58	4.68403e-05	0.999823	0.000324098	0.998780
PAH1+H	3.99182e-05	0.999863	0.000276203	0.999056
rad73	3.19410e-05	0.999895	0.000221007	0.999277
PhcycC3H3_A+H	2.78091e-05	0.999923	0.000192417	0.999470
rad70	1.68875e-05	0.999940	0.000116848	0.999587
rad37	1.28494e-05	0.999953	8.89080e-05	0.999675
PAH8+H	8.51465e-06	0.999961	5.89148e-05	0.999734
rad54	8.38363e-06	0.999970	5.80082e-05	0.999792
rad72	7.65934e-06	0.999977	5.29967e-05	0.999845
rad65	7.07556e-06	0.999985	4.89574e-05	0.999894
rad34	6.39811e-06	0.999991	4.42700e-05	0.999939
rad68syn	1.34704e-06	0.999992	9.32045e-06	0.999948
rad64	1.07573e-06	0.999993	7.44324e-06	0.999955
rad56	9.80305e-07	0.999994	6.78295e-06	0.999962
rad55	8.94183e-07	0.999995	6.18705e-06	0.999968
rad68anti	8.59678e-07	0.999996	5.94830e-06	0.999974
rad40syn	7.45033e-07	0.999997	5.15505e-06	0.999979
rad53	6.73589e-07	0.999998	4.66071e-06	0.999984
rad40anti	5.40913e-07	0.999998	3.74270e-06	0.999988
rad62	5.25746e-07	0.999999	3.63775e-06	0.999991
rad61	4.70885e-07	0.999999	3.25816e-06	0.999995
rad43	2.53753e-07	0.999999	1.75577e-06	0.999996
rad23	1.37676e-07	0.999999	9.52610e-07	0.999997
rad42	9.15845e-08	1.000000	6.33693e-07	0.999998
rad6	6.09624e-08	1.000000	4.21813e-07	0.999998
rad41	4.57596e-08	1.000000	3.16621e-07	0.999999
rad45	4.01353e-08	1.000000	2.77705e-07	0.999999
rad20	3.89704e-08	1.000000	2.69645e-07	0.999999
rad9	3.82246e-08	1.000000	2.64484e-07	1.000000
rad22	1.72527e-08	1.000000	1.19375e-07	1.000000
rad21	1.69158e-08	1.000000	1.17044e-07	1.000000
rad11	1.02020e-08	1.000000	7.05900e-08	1.000000
rad36	7.40776e-09	1.000000	5.12559e-08	1.000000
rad18	4.92851e-09	1.000000	3.41015e-08	1.000000
rad15	3.06249e-09	1.000000	2.11901e-08	1.000000
rad8	2.17025e-09	1.000000	1.50164e-08	1.000000
rad7	1.64626e-09	1.000000	1.13908e-08	1.000000
rad28	1.22722e-09	1.000000	8.49139e-09	1.000000
rad24	1.10817e-09	1.000000	7.66769e-09	1.000000
rad12	1.07373e-09	1.000000	7.42938e-09	1.000000
rad47	6.05103e-10	1.000000	4.18684e-09	1.000000
rad26	3.42298e-10	1.000000	2.36843e-09	1.000000
rad13	2.24596e-10	1.000000	1.55403e-09	1.000000
rad10	1.30880e-10	1.000000	9.05590e-10	1.000000
rad25	6.80444e-11	1.000000	4.70815e-10	1.000000
rad5	2.11006e-11	1.000000	1.46000e-10	1.000000
rad33	1.95988e-11	1.000000	1.35609e-10	1.000000
rad2	1.07873e-11	1.000000	7.46399e-11	1.000000
rad1	4.95171e-12	1.000000	3.42620e-11	1.000000
rad14	1.22335e-12	1.000000	8.46462e-12	1.000000
rad27	6.88049e-13	1.000000	4.76076e-12	1.000000
rad3	6.27476e-13	1.000000	4.34165e-12	1.000000
rad4	3.62851e-13	1.000000	2.51065e-12	1.000000

1000.00000 Pa, 3500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.10046e-12 (1.00)	3.29926e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.842927	0.842927	0.00000	0.00000
PhCH2CCH+H	0.0857240	0.928651	0.545761	0.545761
Indene+H	0.0229275	0.951578	0.145968	0.691729
PhCHCCH2+H	0.0212218	0.972800	0.135108	0.826837
Ph+Allene	0.0160719	0.988872	0.102321	0.929158
PAH3+H	0.00277082	0.991643	0.0176404	0.946798
PAH7+H	0.00108555	0.992729	0.00691110	0.953709
PAH9+H	0.00103820	0.993767	0.00660968	0.960319
rad19anti	0.000785977	0.994553	0.00500391	0.965323
rad38	0.000657552	0.995210	0.00418629	0.969509
rad50	0.000571599	0.995782	0.00363908	0.973148
Ph+MeAc	0.000559757	0.996342	0.00356368	0.976712
PhCCH+CH3	0.000466765	0.996808	0.00297165	0.979684
rad30	0.000434294	0.997243	0.00276493	0.982449
rad39	0.000427063	0.997670	0.00271889	0.985168

rad51	0.000341125	0.998011	0.00217176	0.987339
rad35	0.000335209	0.998346	0.00213410	0.989473
rad46	0.000264430	0.998611	0.00168349	0.991157
rad59	0.000204436	0.998815	0.00130154	0.992459
rad67	0.000182834	0.998998	0.00116401	0.993623
PhCCCH3+H	0.000163684	0.999161	0.00104209	0.994665
rad71	0.000107965	0.999269	0.000687356	0.995352
rad60syn	0.000103349	0.999373	0.000657967	0.996010
PAH10+CH3	9.81269e-05	0.999471	0.000624723	0.996635
rad19syn	9.79750e-05	0.999569	0.000623756	0.997258
rad60anti	7.58698e-05	0.999645	0.000483024	0.997741
rad52	7.00658e-05	0.999715	0.000446073	0.998187
rad58	5.76203e-05	0.999772	0.000366839	0.998554
PAH1+H	5.20734e-05	0.999825	0.000331524	0.998886
rad73	4.44195e-05	0.999869	0.000282796	0.999169
PhcycC3H3_A+H	3.20680e-05	0.999901	0.000204160	0.999373
rad70	2.14732e-05	0.999923	0.000136709	0.999510
PAH8+H	1.37780e-05	0.999936	8.77173e-05	0.999597
rad37	1.33229e-05	0.999950	8.48198e-05	0.999682
rad72	1.24656e-05	0.999962	7.93621e-05	0.999761
rad54	8.98100e-06	0.999971	5.71774e-05	0.999819
rad34	8.46836e-06	0.999980	5.39137e-05	0.999873
rad65	8.19694e-06	0.999988	5.21857e-05	0.999925
rad68syn	1.99283e-06	0.999990	1.26873e-05	0.999937
rad64	1.43562e-06	0.999991	9.13987e-06	0.999947
rad56	1.27439e-06	0.999992	8.11335e-06	0.999955
rad68anti	1.27062e-06	0.999994	8.08941e-06	0.999963
rad40syn	1.15754e-06	0.999995	7.36947e-06	0.999970
rad55	9.87679e-07	0.999996	6.28804e-06	0.999976
rad40anti	8.53041e-07	0.999997	5.43087e-06	0.999982
rad53	8.36099e-07	0.999998	5.32301e-06	0.999987
rad62	6.97598e-07	0.999998	4.44125e-06	0.999992
rad61	6.32740e-07	0.999999	4.02833e-06	0.999996
rad43	3.12024e-07	0.999999	1.98650e-06	0.999998
rad42	1.30189e-07	0.999999	8.28846e-07	0.999998
rad23	6.87633e-08	0.999999	4.37780e-07	0.999999
rad41	6.11865e-08	0.999999	3.89543e-07	0.999999
rad20	2.78198e-08	0.999999	1.77114e-07	0.999999
rad6	2.53690e-08	0.999999	1.61511e-07	1.000000
rad9	2.31372e-08	1.000000	1.47303e-07	1.000000
rad45	2.25959e-08	1.000000	1.43857e-07	1.000000
rad21	1.16260e-08	1.000000	7.40167e-08	1.000000
rad22	9.97667e-09	1.000000	6.35163e-08	1.000000
rad11	6.87011e-09	1.000000	4.37385e-08	1.000000
rad36	4.20197e-09	1.000000	2.67518e-08	1.000000
rad18	3.07071e-09	1.000000	1.95496e-08	1.000000
rad8	2.05988e-09	1.000000	1.31142e-08	1.000000
rad15	1.96710e-09	1.000000	1.25235e-08	1.000000
rad7	8.36065e-10	1.000000	5.32279e-09	1.000000
rad12	8.21551e-10	1.000000	5.23039e-09	1.000000
rad24	7.83087e-10	1.000000	4.98551e-09	1.000000
rad28	7.36699e-10	1.000000	4.69018e-09	1.000000
rad47	6.95721e-10	1.000000	4.42930e-09	1.000000
rad26	2.23409e-10	1.000000	1.42233e-09	1.000000
rad13	1.23892e-10	1.000000	7.88758e-10	1.000000
rad10	9.01273e-11	1.000000	5.73794e-10	1.000000
rad25	5.50771e-11	1.000000	3.50647e-10	1.000000
rad5	2.01905e-11	1.000000	1.28542e-10	1.000000
rad33	1.20528e-11	1.000000	7.67338e-11	1.000000
rad2	7.39272e-12	1.000000	4.70656e-11	1.000000
rad1	3.69635e-12	1.000000	2.35327e-11	1.000000
rad14	1.08018e-12	1.000000	6.87693e-12	1.000000
rad27	5.76924e-13	1.000000	3.67298e-12	1.000000
rad3	3.47756e-13	1.000000	2.21399e-12	1.000000
rad4	1.97159e-13	1.000000	1.25521e-12	1.000000

1000.00000 Pa, 3750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.70978e-12 (1.00)	4.61711e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829613	0.829613	0.00000	0.00000
PhCH2CCH+H	0.0978315	0.927445	0.574174	0.574174
PhCHCCH2+H	0.0240140	0.951458	0.140938	0.715112
Indene+H	0.0190785	0.970537	0.111972	0.827084
Ph+Allene	0.0176550	0.988192	0.103617	0.930701
PAH3+H	0.00305566	0.991248	0.0179337	0.948635

PAH7+H	0.00116197	0.992410	0.00681962	0.955454
PAH9+H	0.000954967	0.993365	0.00560471	0.961059
rad19anti	0.000750858	0.994115	0.00440679	0.965466
Ph+MeAc	0.000618505	0.994734	0.00363001	0.969096
rad38	0.000613144	0.995347	0.00359855	0.972694
rad50	0.000603742	0.995951	0.00354336	0.976238
PhCCH+CH3	0.000581842	0.996533	0.00341483	0.979653
rad39	0.000465911	0.996999	0.00273444	0.982387
rad30	0.000416538	0.997415	0.00244466	0.984832
rad51	0.000381133	0.997796	0.00223687	0.987069
rad35	0.000341495	0.998138	0.00200424	0.989073
rad46	0.000254418	0.998392	0.00149318	0.990566
rad59	0.000220084	0.998612	0.00129167	0.991858
rad67	0.000201012	0.998813	0.00117974	0.993037
PhCCCH3+H	0.000187988	0.999001	0.00110330	0.994141
rad71	0.000146978	0.999148	0.000862615	0.995003
rad19syn	0.000129262	0.999278	0.000758637	0.995762
PAH10+CH3	0.000111174	0.999389	0.000652482	0.996414
rad60syn	0.000106707	0.999495	0.000626262	0.997041
rad60anti	7.88382e-05	0.999574	0.000462702	0.997503
rad52	7.54706e-05	0.999650	0.000442937	0.997946
rad58	6.80264e-05	0.999718	0.000399247	0.998346
PAH1+H	6.45911e-05	0.999782	0.000379085	0.998725
rad73	5.75453e-05	0.999840	0.000337734	0.999062
PhcycC3H3_A+H	3.61231e-05	0.999876	0.000212007	0.999274
rad70	2.62319e-05	0.999902	0.000153955	0.999428
PAH8+H	2.07450e-05	0.999923	0.000121752	0.999550
rad72	1.86160e-05	0.999942	0.000109257	0.999659
rad37	1.33630e-05	0.999955	7.84278e-05	0.999738
rad34	1.07121e-05	0.999966	6.28696e-05	0.999801
rad54	9.53983e-06	0.999975	5.59893e-05	0.999857
rad65	9.05427e-06	0.999984	5.31395e-05	0.999910
rad68syn	2.77546e-06	0.999987	1.62892e-05	0.999926
rad64	1.81267e-06	0.999989	1.06386e-05	0.999937
rad68anti	1.76824e-06	0.999991	1.03778e-05	0.999947
rad40syn	1.68214e-06	0.999992	9.87247e-06	0.999957
rad56	1.59886e-06	0.999994	9.38370e-06	0.999966
rad40anti	1.25580e-06	0.999995	7.37028e-06	0.999974
rad55	1.07706e-06	0.999996	6.32125e-06	0.999980
rad53	1.00846e-06	0.999997	5.91868e-06	0.999986
rad62	8.81888e-07	0.999998	5.17581e-06	0.999991
rad61	7.98536e-07	0.999999	4.68661e-06	0.999996
rad43	3.67980e-07	0.999999	2.15968e-06	0.999998
rad42	1.74807e-07	0.999999	1.02594e-06	0.999999
rad41	7.77099e-08	1.000000	4.56080e-07	0.999999
rad23	3.63560e-08	1.000000	2.13373e-07	1.000000
rad20	2.05942e-08	1.000000	1.20867e-07	1.000000
rad9	1.44817e-08	1.000000	8.49931e-08	1.000000
rad45	1.31874e-08	1.000000	7.73966e-08	1.000000
rad6	1.20758e-08	1.000000	7.08727e-08	1.000000
rad21	8.28460e-09	1.000000	4.86224e-08	1.000000
rad22	6.16426e-09	1.000000	3.61781e-08	1.000000
rad11	4.94406e-09	1.000000	2.90167e-08	1.000000
rad36	2.46614e-09	1.000000	1.44738e-08	1.000000
rad18	1.99826e-09	1.000000	1.17278e-08	1.000000
rad8	1.92604e-09	1.000000	1.13039e-08	1.000000
rad15	1.29375e-09	1.000000	7.59305e-09	1.000000
rad47	7.60040e-10	1.000000	4.46068e-09	1.000000
rad12	6.32611e-10	1.000000	3.71279e-09	1.000000
rad24	5.63754e-10	1.000000	3.30867e-09	1.000000
rad28	4.66626e-10	1.000000	2.73863e-09	1.000000
rad7	4.65827e-10	1.000000	2.73394e-09	1.000000
rad26	1.48000e-10	1.000000	8.68615e-10	1.000000
rad13	7.45661e-11	1.000000	4.37629e-10	1.000000
rad10	6.29198e-11	1.000000	3.69277e-10	1.000000
rad25	4.55764e-11	1.000000	2.67488e-10	1.000000
rad5	1.93208e-11	1.000000	1.13394e-10	1.000000
rad33	7.92547e-12	1.000000	4.65146e-11	1.000000
rad2	5.28872e-12	1.000000	3.10395e-11	1.000000
rad1	2.80321e-12	1.000000	1.64520e-11	1.000000
rad14	9.61840e-13	1.000000	5.64504e-12	1.000000
rad27	4.82668e-13	1.000000	2.83278e-12	1.000000
rad3	2.12749e-13	1.000000	1.24863e-12	1.000000
rad4	1.19107e-13	1.000000	6.99038e-13	1.000000

1000.00000 Pa, 4000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28300e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.816016	0.816016	0.00000	0.00000
PhCH2CCH+H	0.109584	0.925600	0.595618	0.595618
PhCHCCH2+H	0.0267097	0.952310	0.145174	0.740792
Ph+Allene	0.0193045	0.971614	0.104925	0.845717
Indene+H	0.0160486	0.987663	0.0872282	0.932945
PAH3+H	0.00329013	0.990953	0.0178827	0.950828
PAH7+H	0.00121789	0.992171	0.00661958	0.957447
PAH9+H	0.000863943	0.993035	0.00469576	0.962143
PhCCH+CH3	0.000720160	0.993755	0.00391426	0.966058
rad19anti	0.000708488	0.994463	0.00385082	0.969908
Ph+MeAc	0.000663929	0.995127	0.00360863	0.973517
rad50	0.000616890	0.995744	0.00335296	0.976870
rad38	0.000560096	0.996304	0.00304427	0.979914
rad39	0.000491081	0.996795	0.00266916	0.982583
rad51	0.000408555	0.997204	0.00222061	0.984804
rad30	0.000396477	0.997600	0.00215496	0.986959
rad35	0.000343086	0.997944	0.00186476	0.988824
rad46	0.000239239	0.998183	0.00130033	0.990124
rad59	0.000231903	0.998415	0.00126045	0.991384
rad67	0.000214259	0.998629	0.00116455	0.992549
PhCCCH3+H	0.000213579	0.998843	0.00116086	0.993710
rad71	0.000187950	0.999030	0.00102156	0.994731
rad19syn	0.000163942	0.999194	0.000891068	0.995622
PAH10+CH3	0.000121536	0.999316	0.000660580	0.996283
rad60syn	0.000108396	0.999424	0.000589160	0.996872
rad60anti	8.05427e-05	0.999505	0.000437771	0.997310
rad52	7.83024e-05	0.999583	0.000425595	0.997736
rad58	7.77573e-05	0.999661	0.000422632	0.998158
PAH1+H	7.70042e-05	0.999738	0.000418538	0.998577
rad73	7.03849e-05	0.999808	0.000382561	0.998959
PhcycC3H3_A+H	3.98821e-05	0.999848	0.000216770	0.999176
rad70	3.09912e-05	0.999879	0.000168445	0.999345
PAH8+H	2.94371e-05	0.999909	0.000159999	0.999505
rad72	2.58516e-05	0.999934	0.000140510	0.999645
rad37	1.30843e-05	0.999948	7.11169e-05	0.999716
rad34	1.30500e-05	0.999961	7.09300e-05	0.999787
rad54	1.00585e-05	0.999971	5.46704e-05	0.999842
rad65	9.63809e-06	0.999980	5.23856e-05	0.999894
rad68syn	3.67791e-06	0.999984	1.99905e-05	0.999914
rad68anti	2.34162e-06	0.999986	1.27273e-05	0.999927
rad40syn	2.31369e-06	0.999989	1.25756e-05	0.999939
rad64	2.19090e-06	0.999991	1.19081e-05	0.999951
rad56	1.94746e-06	0.999993	1.05850e-05	0.999962
rad40anti	1.74699e-06	0.999995	9.49537e-06	0.999971
rad53	1.18747e-06	0.999996	6.45420e-06	0.999978
rad55	1.16171e-06	0.999997	6.31422e-06	0.999984
rad62	1.07274e-06	0.999998	5.83065e-06	0.999990
rad61	9.59695e-07	0.999999	5.21620e-06	0.999995
rad43	4.20275e-07	0.999999	2.28431e-06	0.999998
rad42	2.24312e-07	1.000000	1.21919e-06	0.999999
rad41	9.47636e-08	1.000000	5.15066e-07	0.999999
rad23	2.01881e-08	1.000000	1.09728e-07	0.999999
rad20	1.57138e-08	1.000000	8.54086e-08	0.999999
rad9	9.35632e-09	1.000000	5.08541e-08	1.000000
rad45	7.93722e-09	1.000000	4.31409e-08	1.000000
rad6	6.45253e-09	1.000000	3.50712e-08	1.000000
rad21	6.08655e-09	1.000000	3.30820e-08	1.000000
rad22	4.02551e-09	1.000000	2.18797e-08	1.000000
rad11	3.73879e-09	1.000000	2.03213e-08	1.000000
rad8	1.77723e-09	1.000000	9.65973e-09	1.000000
rad36	1.49004e-09	1.000000	8.09877e-09	1.000000
rad18	1.34900e-09	1.000000	7.33217e-09	1.000000
rad15	8.70441e-10	1.000000	4.73108e-09	1.000000
rad47	7.97372e-10	1.000000	4.33393e-09	1.000000
rad12	4.90765e-10	1.000000	2.66744e-09	1.000000
rad24	4.13092e-10	1.000000	2.24527e-09	1.000000
rad28	3.07092e-10	1.000000	1.66913e-09	1.000000
rad7	2.79652e-10	1.000000	1.51998e-09	1.000000
rad26	9.96817e-11	1.000000	5.41797e-10	1.000000
rad13	4.81290e-11	1.000000	2.61594e-10	1.000000
rad10	4.47832e-11	1.000000	2.43409e-10	1.000000
rad25	3.82768e-11	1.000000	2.08044e-10	1.000000
rad5	1.84903e-11	1.000000	1.00500e-10	1.000000
rad33	5.50386e-12	1.000000	2.99150e-11	1.000000
rad2	3.96720e-12	1.000000	2.15628e-11	1.000000
rad1	2.15269e-12	1.000000	1.17004e-11	1.000000
rad14	8.58182e-13	1.000000	4.66445e-12	1.000000

rad27	4.04942e-13	1.000000	2.20097e-12	1.000000
rad3	1.40650e-13	1.000000	7.64471e-13	1.000000
rad4	7.82155e-14	1.000000	4.25122e-13	1.000000

100.000000 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.347846	0.347846	0.347846	0.347846
rad20	0.262593	0.610439	0.262593	0.610439
rad21	0.163579	0.774018	0.163580	0.774019
rad18	0.162658	0.936676	0.162658	0.936677
Indene+H	0.0481014	0.984777	0.0481014	0.984778
rad45	0.0131518	0.997929	0.0131518	0.997930
rad23	0.00119716	0.999126	0.00119716	0.999127
rad36	0.000819493	0.999946	0.000819494	0.999947
rad11	5.33906e-05	0.999999	5.33906e-05	1.00000
Benzyl+C2H2	3.79658e-07	1.000000	0.00000	1.00000
rad6	6.20880e-08	1.000000	6.20881e-08	1.00000
rad24	2.88781e-10	1.000000	2.88781e-10	1.00000
rad13	9.03487e-14	1.000000	9.03488e-14	1.00000
rad7	4.53862e-14	1.000000	4.53862e-14	1.00000
rad30	4.20364e-16	1.000000	4.20364e-16	1.00000
rad33	1.01419e-16	1.000000	1.01419e-16	1.00000
rad35	7.19600e-19	1.000000	7.19600e-19	1.00000
rad38	5.28473e-19	1.000000	5.28473e-19	1.00000
rad15	3.74112e-19	1.000000	3.74112e-19	1.00000
rad3	2.75449e-19	1.000000	2.75449e-19	1.00000
PAH9+H	2.40977e-19	1.000000	2.40977e-19	1.00000
rad4	1.39364e-19	1.000000	1.39364e-19	1.00000
rad25	2.81206e-20	1.000000	2.81206e-20	1.00000
rad2	7.90393e-24	1.000000	7.90393e-24	1.00000
rad28	2.30939e-24	1.000000	2.30939e-24	1.00000
rad1	5.00542e-25	1.000000	5.00542e-25	1.00000
PhCHCCH2+H	3.31222e-26	1.000000	3.31222e-26	1.00000
rad46	3.12162e-27	1.000000	3.12162e-27	1.00000
rad10	1.07799e-28	1.000000	1.07799e-28	1.00000
rad31	7.25552e-29	1.000000	7.25552e-29	1.00000
rad9	4.56051e-29	1.000000	4.56052e-29	1.00000
rad14	6.42258e-31	1.000000	6.42258e-31	1.00000
PhCCH+CH3	2.83097e-31	1.000000	2.83097e-31	1.00000
rad8	9.77695e-33	1.000000	9.77695e-33	1.00000
Ph+Allene	5.49376e-33	1.000000	5.49376e-33	1.00000
rad27	1.88588e-33	1.000000	1.88588e-33	1.00000
rad60syn	1.38837e-33	1.000000	1.38837e-33	1.00000
rad60anti	2.77669e-35	1.000000	2.77669e-35	1.00000
PhCCCH3+H	3.62637e-36	1.000000	3.62638e-36	1.00000
rad26	1.02236e-36	1.000000	1.02236e-36	1.00000
PhCH2CCH+H	1.66017e-38	1.000000	1.66017e-38	1.00000
Ph+MeAc	4.90419e-39	1.000000	4.90419e-39	1.00000
PAH7+H	1.38953e-39	1.000000	1.38953e-39	1.00000
rad39	2.89607e-41	1.000000	2.89607e-41	1.00000
PAH3+H	5.33803e-44	1.000000	5.33803e-44	1.00000
rad50	3.09665e-44	1.000000	3.09665e-44	1.00000
rad59	2.70134e-44	1.000000	2.70134e-44	1.00000
rad12	3.52348e-48	1.000000	3.52348e-48	1.00000
rad5	1.74532e-49	1.000000	1.74532e-49	1.00000
rad37	7.19757e-52	1.000000	7.19757e-52	1.00000
rad52	5.42678e-53	1.000000	5.42678e-53	1.00000
rad19syn	1.78623e-54	1.000000	1.78623e-54	1.00000
rad54	7.05813e-58	1.000000	7.05814e-58	1.00000
rad51	6.03398e-58	1.000000	6.03398e-58	1.00000
rad62	8.68292e-61	1.000000	8.68293e-61	1.00000
rad43	8.16878e-61	1.000000	8.16878e-61	1.00000
rad65	1.00142e-61	1.000000	1.00142e-61	1.00000
PAH10+CH3	4.09277e-63	1.000000	4.09277e-63	1.00000
rad70	1.96628e-63	1.000000	1.96628e-63	1.00000
PhcycC3H3_A+H	1.98217e-64	1.000000	1.98217e-64	1.00000
rad55	9.75537e-65	1.000000	9.75537e-65	1.00000
rad58	5.89441e-65	1.000000	5.89441e-65	1.00000
rad47	1.87074e-66	1.000000	1.87074e-66	1.00000
rad34	1.60864e-69	1.000000	1.60864e-69	1.00000
PAH1+H	8.19878e-70	1.000000	8.19878e-70	1.00000
rad42	5.79317e-73	1.000000	5.79317e-73	1.00000
rad41	2.37851e-74	1.000000	2.37851e-74	1.00000

100.000000 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15918e-108 (1.00)	1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.490768	0.490768	0.490768	0.490768
rad18	0.166999	0.657767	0.166999	0.657767
rad20	0.123854	0.781621	0.123854	0.781621
Indene+H	0.117076	0.898697	0.117076	0.898697
rad21	0.0776893	0.976386	0.0776894	0.976386
rad45	0.0186506	0.995037	0.0186506	0.995037
rad23	0.00371050	0.998747	0.00371050	0.998747
rad36	0.00116160	0.999909	0.00116160	0.999909
rad11	9.00011e-05	0.999999	9.00011e-05	0.999999
Benzyl+C2H2	6.31974e-07	1.000000	0.000000	0.999999
rad6	2.20095e-07	1.000000	2.20095e-07	0.999999
rad24	2.25259e-10	1.000000	2.25259e-10	0.999999
rad13	3.57700e-13	1.000000	3.57700e-13	0.999999
rad7	3.26743e-13	1.000000	3.26743e-13	0.999999
rad30	5.94735e-16	1.000000	5.94735e-16	0.999999
rad33	3.85384e-16	1.000000	3.85384e-16	0.999999
rad35	4.87124e-18	1.000000	4.87124e-18	0.999999
rad3	2.58428e-18	1.000000	2.58428e-18	0.999999
PAH9+H	1.54471e-18	1.000000	1.54471e-18	0.999999
rad38	1.40963e-18	1.000000	1.40963e-18	0.999999
rad4	1.30720e-18	1.000000	1.30720e-18	0.999999
rad15	3.58344e-19	1.000000	3.58344e-19	0.999999
rad25	5.48735e-20	1.000000	5.48735e-20	0.999999
rad2	1.29855e-22	1.000000	1.29855e-22	0.999999
rad28	1.24756e-23	1.000000	1.24756e-23	0.999999
rad1	8.22006e-24	1.000000	8.22007e-24	0.999999
PhCHCCH2+H	5.27102e-26	1.000000	5.27103e-26	0.999999
rad46	6.11859e-27	1.000000	6.11859e-27	0.999999
rad10	3.05270e-27	1.000000	3.05270e-27	0.999999
rad31	6.77722e-28	1.000000	6.77722e-28	0.999999
rad9	6.85157e-29	1.000000	6.85158e-29	0.999999
rad14	5.75458e-30	1.000000	5.75458e-30	0.999999
PhCCH+CH3	2.26209e-30	1.000000	2.26209e-30	0.999999
rad27	3.85359e-32	1.000000	3.85359e-32	0.999999
Ph+Allene	7.13849e-33	1.000000	7.13849e-33	0.999999
rad8	3.00833e-33	1.000000	3.00833e-33	0.999999
rad60syn	2.30452e-34	1.000000	2.30452e-34	0.999999
PhCCCH3+H	5.69547e-35	1.000000	5.69547e-35	0.999999
rad26	3.73641e-35	1.000000	3.73641e-35	0.999999
rad60anti	4.87417e-36	1.000000	4.87418e-36	0.999999
Ph+MeAc	3.37370e-38	1.000000	3.37370e-38	0.999999
PhCH2CCH+H	1.64028e-38	1.000000	1.64028e-38	0.999999
PAH7+H	7.50873e-39	1.000000	7.50874e-39	0.999999
rad39	1.89624e-40	1.000000	1.89624e-40	0.999999
rad50	7.76664e-44	1.000000	7.76664e-44	0.999999
PAH3+H	4.18103e-44	1.000000	4.18103e-44	0.999999
rad59	2.12389e-44	1.000000	2.12389e-44	0.999999
rad12	1.87067e-46	1.000000	1.87067e-46	0.999999
rad5	1.80123e-48	1.000000	1.80123e-48	0.999999
rad37	2.50774e-50	1.000000	2.50774e-50	0.999999
rad52	1.54302e-52	1.000000	1.54302e-52	0.999999
rad19syn	3.96489e-54	1.000000	3.96489e-54	0.999999
rad51	1.60407e-57	1.000000	1.60407e-57	0.999999
rad54	1.38876e-57	1.000000	1.38876e-57	0.999999
rad43	4.99386e-60	1.000000	4.99386e-60	0.999999
rad62	2.28903e-60	1.000000	2.28904e-60	0.999999
rad65	2.38521e-61	1.000000	2.38521e-61	0.999999
PAH10+CH3	7.41399e-62	1.000000	7.41399e-62	0.999999
rad70	9.38693e-64	1.000000	9.38694e-64	0.999999
PhcycC3H3_A+H	3.96312e-64	1.000000	3.96312e-64	0.999999
rad55	1.91888e-64	1.000000	1.91888e-64	0.999999
rad58	4.59906e-65	1.000000	4.59907e-65	0.999999
rad47	2.52765e-66	1.000000	2.52766e-66	0.999999
PAH1+H	3.33882e-69	1.000000	3.33882e-69	0.999999
rad34	2.60937e-69	1.000000	2.60937e-69	0.999999
rad42	1.28144e-72	1.000000	1.28144e-72	0.999999
rad41	9.85494e-74	1.000000	9.85495e-74	0.999999

100.000000 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 1.02415e-84 (1.00) 1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.544294	0.544294	0.544295	0.544295
Indene+H	0.175024	0.719318	0.175024	0.719319
rad18	0.143612	0.862930	0.143612	0.862931
rad20	0.0669263	0.929856	0.0669264	0.929857
rad21	0.0418124	0.971669	0.0418124	0.971670
rad45	0.0204791	0.992148	0.0204791	0.992149
rad23	0.00646157	0.998609	0.00646158	0.998610
rad36	0.00127465	0.999884	0.00127465	0.999885
rad11	0.000114301	0.999998	0.000114301	0.999999
Benzyl+C2H2	1.00038e-06	0.999999	0.00000	0.999999
rad6	4.35983e-07	1.000000	4.35984e-07	1.000000
rad24	2.15087e-10	1.000000	2.15087e-10	1.000000
rad7	9.89603e-13	1.000000	9.89604e-13	1.000000
rad13	7.03523e-13	1.000000	7.03524e-13	1.000000
rad30	7.90035e-16	1.000000	7.90035e-16	1.000000
rad33	7.53237e-16	1.000000	7.53238e-16	1.000000
rad35	1.59463e-17	1.000000	1.59463e-17	1.000000
rad3	9.23392e-18	1.000000	9.23393e-18	1.000000
PAH9+H	5.01249e-18	1.000000	5.01250e-18	1.000000
rad4	4.67162e-18	1.000000	4.67162e-18	1.000000
rad38	3.00329e-18	1.000000	3.00330e-18	1.000000
rad15	3.81493e-19	1.000000	3.81493e-19	1.000000
rad25	1.05752e-19	1.000000	1.05753e-19	1.000000
rad2	6.88296e-22	1.000000	6.88297e-22	1.000000
rad1	4.36101e-23	1.000000	4.36101e-23	1.000000
rad28	3.94809e-23	1.000000	3.94809e-23	1.000000
PhCHCCH2+H	9.91760e-26	1.000000	9.91761e-26	1.000000
rad10	2.31312e-26	1.000000	2.31312e-26	1.000000
rad46	1.33349e-26	1.000000	1.33349e-26	1.000000
rad31	2.45274e-27	1.000000	2.45274e-27	1.000000
rad9	1.26769e-28	1.000000	1.26769e-28	1.000000
rad14	2.60482e-29	1.000000	2.60483e-29	1.000000
PhCCH+CH3	1.00673e-29	1.000000	1.00673e-29	1.000000
rad27	2.64834e-31	1.000000	2.64834e-31	1.000000
Ph+Allene	1.21650e-32	1.000000	1.21650e-32	1.000000
rad8	3.89931e-33	1.000000	3.89931e-33	1.000000
PhCCCH3+H	3.77594e-34	1.000000	3.77594e-34	1.000000
rad26	3.73554e-34	1.000000	3.73554e-34	1.000000
rad60syn	1.63915e-34	1.000000	1.63915e-34	1.000000
rad60anti	4.42552e-36	1.000000	4.42553e-36	1.000000
Ph+MeAc	1.56287e-37	1.000000	1.56287e-37	1.000000
PAH7+H	3.09454e-38	1.000000	3.09455e-38	1.000000
PhCH2CCH+H	2.32033e-38	1.000000	2.32033e-38	1.000000
rad39	8.05062e-40	1.000000	8.05062e-40	1.000000
rad50	2.35151e-43	1.000000	2.35151e-43	1.000000
PAH3+H	4.52116e-44	1.000000	4.52116e-44	1.000000
rad59	2.31098e-44	1.000000	2.31099e-44	1.000000
rad12	2.62120e-45	1.000000	2.62121e-45	1.000000
rad5	1.06569e-47	1.000000	1.06569e-47	1.000000
rad37	3.14343e-49	1.000000	3.14343e-49	1.000000
rad52	4.70195e-52	1.000000	4.70195e-52	1.000000
rad19syn	1.04274e-53	1.000000	1.04274e-53	1.000000
rad51	4.84267e-57	1.000000	4.84268e-57	1.000000
rad54	3.65476e-57	1.000000	3.65476e-57	1.000000
rad43	2.44612e-59	1.000000	2.44612e-59	1.000000
rad62	6.85353e-60	1.000000	6.85353e-60	1.000000
rad65	6.94030e-61	1.000000	6.94031e-61	1.000000
PAH10+CH3	6.66827e-61	1.000000	6.66828e-61	1.000000
rad70	2.39474e-63	1.000000	2.39474e-63	1.000000
PhcycC3H3_A+H	1.11098e-63	1.000000	1.11098e-63	1.000000
rad55	5.34564e-64	1.000000	5.34565e-64	1.000000
rad58	1.26872e-64	1.000000	1.26872e-64	1.000000
rad47	5.29666e-66	1.000000	5.29667e-66	1.000000
PAH1+H	1.41704e-68	1.000000	1.41704e-68	1.000000
rad34	7.57008e-69	1.000000	7.57009e-69	1.000000
rad42	4.09557e-72	1.000000	4.09558e-72	1.000000
rad41	4.53631e-73	1.000000	4.53632e-73	1.000000

100.000000 Pa, 50.000000 K

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

Total | 2.31816e-70 (1.00) | 2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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rad22	0.565450	0.565450	0.565451	0.565451
Indene+H	0.221280	0.786730	0.221281	0.786732
rad18	0.117826	0.904556	0.117826	0.904558
rad20	0.0393506	0.943907	0.0393506	0.943909
rad21	0.0244966	0.968403	0.0244966	0.968405
rad45	0.0209246	0.989328	0.0209246	0.989330
rad23	0.00923518	0.998563	0.00923520	0.998565
rad36	0.00130133	0.999864	0.00130133	0.999866
rad11	0.000133542	0.999998	0.000133543	1.000000
Benzyl+C2H2	1.55582e-06	0.999999	0.00000	1.000000
rad6	7.10176e-07	1.00000	7.10177e-07	1.00000
rad24	2.06080e-10	1.00000	2.06081e-10	1.00000
rad7	2.21935e-12	1.00000	2.21936e-12	1.00000
rad13	1.11435e-12	1.00000	1.11435e-12	1.00000
rad30	1.20772e-15	1.00000	1.20772e-15	1.00000
rad33	1.19643e-15	1.00000	1.19644e-15	1.00000
rad35	4.22656e-17	1.00000	4.22657e-17	1.00000
rad3	2.40947e-17	1.00000	2.40947e-17	1.00000
PAH9+H	1.35711e-17	1.00000	1.35711e-17	1.00000
rad4	1.21946e-17	1.00000	1.21946e-17	1.00000
rad38	6.60202e-18	1.00000	6.60203e-18	1.00000
rad15	5.12017e-19	1.00000	5.12018e-19	1.00000
rad25	2.31060e-19	1.00000	2.31061e-19	1.00000
rad2	2.55402e-21	1.00000	2.55402e-21	1.00000
rad1	1.62080e-22	1.00000	1.62080e-22	1.00000
rad28	1.15901e-22	1.00000	1.15901e-22	1.00000
PhCHCCH2+H	2.25485e-25	1.00000	2.25486e-25	1.00000
rad10	1.16042e-25	1.00000	1.16042e-25	1.00000
rad46	3.52279e-26	1.00000	3.52280e-26	1.00000
rad31	6.54969e-27	1.00000	6.54970e-27	1.00000
rad9	2.88984e-28	1.00000	2.88985e-28	1.00000
rad14	1.03465e-28	1.00000	1.03465e-28	1.00000
PhCCH+CH3	4.08293e-29	1.00000	4.08293e-29	1.00000
rad27	1.35608e-30	1.00000	1.35608e-30	1.00000
Ph+Alkene	2.65977e-32	1.00000	2.65978e-32	1.00000
rad8	7.06926e-33	1.00000	7.06927e-33	1.00000
rad26	2.57536e-33	1.00000	2.57537e-33	1.00000
PhCCCH3+H	2.05240e-33	1.00000	2.05241e-33	1.00000
rad60syn	2.35229e-34	1.00000	2.35230e-34	1.00000
rad60anti	7.07530e-36	1.00000	7.07531e-36	1.00000
Ph+MeAc	7.16907e-37	1.00000	7.16908e-37	1.00000
PAH7+H	1.24846e-37	1.00000	1.24846e-37	1.00000
PhCH2CCH+H	4.48608e-38	1.00000	4.48609e-38	1.00000
rad39	3.30136e-39	1.00000	3.30136e-39	1.00000
rad50	8.51133e-43	1.00000	8.51135e-43	1.00000
PAH3+H	6.42890e-44	1.00000	6.42891e-44	1.00000
rad59	3.29566e-44	1.00000	3.29566e-44	1.00000
rad12	2.53243e-44	1.00000	2.53243e-44	1.00000
rad5	6.09879e-47	1.00000	6.09880e-47	1.00000
rad37	2.99509e-48	1.00000	2.99509e-48	1.00000
rad52	1.80693e-51	1.00000	1.80694e-51	1.00000
rad19syn	3.53916e-53	1.00000	3.53917e-53	1.00000
rad51	1.93652e-56	1.00000	1.93653e-56	1.00000
rad54	1.27765e-56	1.00000	1.27765e-56	1.00000
rad43	1.38948e-58	1.00000	1.38948e-58	1.00000
rad62	2.66344e-59	1.00000	2.66345e-59	1.00000
PAH10+CH3	5.64961e-60	1.00000	5.64962e-60	1.00000
rad65	2.75887e-60	1.00000	2.75887e-60	1.00000
rad70	9.23874e-63	1.00000	9.23875e-63	1.00000
PhcycC3H3_A+H	4.24256e-63	1.00000	4.24257e-63	1.00000
rad55	2.03114e-63	1.00000	2.03114e-63	1.00000
rad58	5.12004e-64	1.00000	5.12005e-64	1.00000
rad47	1.71692e-65	1.00000	1.71693e-65	1.00000
PAH1+H	7.38355e-68	1.00000	7.38356e-68	1.00000
rad34	3.08421e-68	1.00000	3.08421e-68	1.00000
rad42	1.85174e-71	1.00000	1.85174e-71	1.00000
rad41	2.77238e-72	1.00000	2.77239e-72	1.00000

100.000000 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.44107e-61 (1.00)	8.44105e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.572537	0.572537	0.572539	0.572539
Indene+H	0.258315	0.830852	0.258315	0.830854
rad18	0.0951546	0.926007	0.0951548	0.926009
rad20	0.0245605	0.950567	0.0245605	0.950569

rad45	0.0207570	0.971324	0.0207571	0.971326
rad21	0.0152469	0.986571	0.0152469	0.986573
rad23	0.0119851	0.998556	0.0119852	0.998558
rad36	0.00128982	0.999846	0.00128983	0.999848
rad11	0.000150432	0.999996	0.000150433	0.999999
Benzyl+C2H2	2.34453e-06	0.999999	2.00000	0.999999
rad6	1.05303e-06	1.000000	1.05304e-06	1.000000
rad24	1.96853e-10	1.000000	1.96854e-10	1.000000
rad7	4.30153e-12	1.000000	4.30154e-12	1.000000
rad13	1.60144e-12	1.000000	1.60144e-12	1.000000
rad30	2.29047e-15	1.000000	2.29047e-15	1.000000
rad33	1.72912e-15	1.000000	1.72913e-15	1.000000
rad35	1.02015e-16	1.000000	1.02015e-16	1.000000
rad3	5.45211e-17	1.000000	5.45212e-17	1.000000
PAH9+H	3.48375e-17	1.000000	3.48375e-17	1.000000
rad4	2.76079e-17	1.000000	2.76080e-17	1.000000
rad38	1.58889e-17	1.000000	1.58889e-17	1.000000
rad15	9.04334e-19	1.000000	9.04336e-19	1.000000
rad25	5.99215e-19	1.000000	5.99216e-19	1.000000
rad2	8.19377e-21	1.000000	8.19379e-21	1.000000
rad1	5.21057e-22	1.000000	5.21059e-22	1.000000
rad28	3.60037e-22	1.000000	3.60038e-22	1.000000
PhCHCCH2+H	6.29988e-25	1.000000	6.29989e-25	1.000000
rad10	4.98574e-25	1.000000	4.98575e-25	1.000000
rad46	1.12239e-25	1.000000	1.12240e-25	1.000000
rad31	1.52799e-26	1.000000	1.52799e-26	1.000000
rad9	8.19867e-28	1.000000	8.19869e-28	1.000000
rad14	4.24988e-28	1.000000	4.24989e-28	1.000000
PhCCH+CH3	1.75260e-28	1.000000	1.75261e-28	1.000000
rad27	6.53738e-30	1.000000	6.53739e-30	1.000000
Ph+Allene	7.45031e-32	1.000000	7.45033e-32	1.000000
rad26	1.61569e-32	1.000000	1.61570e-32	1.000000
rad8	1.56464e-32	1.000000	1.56465e-32	1.000000
PhCCCH3+H	1.11848e-32	1.000000	1.11848e-32	1.000000
rad60syn	4.76315e-34	1.000000	4.76316e-34	1.000000
rad60anti	1.47680e-35	1.000000	1.47680e-35	1.000000
Ph+MeAc	3.66821e-36	1.000000	3.66822e-36	1.000000
PAH7+H	5.51368e-37	1.000000	5.51369e-37	1.000000
PhCH2CCH+H	1.16424e-37	1.000000	1.16424e-37	1.000000
rad39	1.48136e-38	1.000000	1.48136e-38	1.000000
rad50	3.84858e-42	1.000000	3.84859e-42	1.000000
rad12	2.25628e-43	1.000000	2.25628e-43	1.000000
PAH3+H	1.22654e-43	1.000000	1.22654e-43	1.000000
rad59	6.28221e-44	1.000000	6.28223e-44	1.000000
rad5	3.92076e-46	1.000000	3.92076e-46	1.000000
rad37	2.80157e-47	1.000000	2.80158e-47	1.000000
rad52	9.17177e-51	1.000000	9.17180e-51	1.000000
rad19syn	1.55108e-52	1.000000	1.55108e-52	1.000000
rad51	1.05935e-55	1.000000	1.05935e-55	1.000000
rad54	5.84131e-56	1.000000	5.84133e-56	1.000000
rad43	9.98416e-58	1.000000	9.98418e-58	1.000000
rad62	1.36015e-58	1.000000	1.36015e-58	1.000000
PAH10+CH3	5.41654e-59	1.000000	5.41655e-59	1.000000
rad65	1.53251e-59	1.000000	1.53251e-59	1.000000
rad70	4.88137e-62	1.000000	4.88138e-62	1.000000
PhcycC3H3_A+H	2.15569e-62	1.000000	2.15569e-62	1.000000
rad55	1.02705e-62	1.000000	1.02706e-62	1.000000
rad58	2.93898e-63	1.000000	2.93899e-63	1.000000
rad47	8.41858e-65	1.000000	8.41860e-65	1.000000
PAH1+H	4.88360e-67	1.000000	4.88361e-67	1.000000
rad34	1.73470e-67	1.000000	1.73471e-67	1.000000
rad42	1.16866e-70	1.000000	1.16866e-70	1.000000
rad41	2.34758e-71	1.000000	2.34759e-71	1.000000

100.000000 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.61998e-54 (1.00)	5.61996e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.572684	0.572684	0.572686	0.572686
Indene+H	0.288476	0.861160	0.288477	0.861163
rad18	0.0764438	0.937604	0.0764441	0.937607
rad45	0.0202913	0.957895	0.0202914	0.957898
rad20	0.0160325	0.973928	0.0160326	0.973931
rad23	0.0147096	0.988637	0.0147096	0.988641
rad21	0.00993123	0.998568	0.00993126	0.998572
rad36	0.00125988	0.999828	0.00125989	0.999832

rad11	0.000166288	0.999995	0.000166288	0.999998
Benzyl+C2H2	3.42695e-06	0.999998	0.00000	0.999998
rad6	1.48219e-06	1.000000	1.48220e-06	1.000000
rad24	1.87732e-10	1.000000	1.87732e-10	1.000000
rad7	7.69598e-12	1.000000	7.69601e-12	1.000000
rad13	2.18721e-12	1.000000	2.18721e-12	1.000000
rad30	6.18745e-15	1.000000	6.18747e-15	1.000000
rad33	2.37706e-15	1.000000	2.37707e-15	1.000000
rad35	2.31884e-16	1.000000	2.31885e-16	1.000000
rad3	1.15031e-16	1.000000	1.15031e-16	1.000000
PAH9+H	8.82540e-17	1.000000	8.82543e-17	1.000000
rad4	5.82841e-17	1.000000	5.82843e-17	1.000000
rad38	4.31364e-17	1.000000	4.31366e-17	1.000000
rad15	2.43011e-18	1.000000	2.43012e-18	1.000000
rad25	2.01012e-18	1.000000	2.01012e-18	1.000000
rad2	2.49830e-20	1.000000	2.49831e-20	1.000000
rad1	1.59258e-21	1.000000	1.59258e-21	1.000000
rad28	1.29641e-21	1.000000	1.29641e-21	1.000000
PhCHCCH2+H	2.33951e-24	1.000000	2.33952e-24	1.000000
rad10	2.07818e-24	1.000000	2.07818e-24	1.000000
rad46	4.39035e-25	1.000000	4.39036e-25	1.000000
rad31	3.34352e-26	1.000000	3.34353e-26	1.000000
rad9	3.11963e-27	1.000000	3.11965e-27	1.000000
rad14	2.04260e-27	1.000000	2.04260e-27	1.000000
PhCCH+CH3	9.02554e-28	1.000000	9.02557e-28	1.000000
rad27	3.40487e-29	1.000000	3.40488e-29	1.000000
Ph+Allene	2.85982e-31	1.000000	2.85983e-31	1.000000
rad26	1.09476e-31	1.000000	1.09476e-31	1.000000
PhCCCH3+H	7.08813e-32	1.000000	7.08815e-32	1.000000
rad8	4.43737e-32	1.000000	4.43739e-32	1.000000
rad60syn	1.30756e-33	1.000000	1.30756e-33	1.000000
rad60anti	4.02940e-35	1.000000	4.02941e-35	1.000000
Ph+MeAc	2.35573e-35	1.000000	2.35574e-35	1.000000
PAH7+H	2.99842e-36	1.000000	2.99843e-36	1.000000
PhCH2CCH+H	4.28991e-37	1.000000	4.28993e-37	1.000000
rad39	8.20782e-38	1.000000	8.20785e-38	1.000000
rad50	2.31146e-41	1.000000	2.31147e-41	1.000000
rad12	2.24504e-42	1.000000	2.24505e-42	1.000000
PAH3+H	3.42193e-43	1.000000	3.42194e-43	1.000000
rad59	1.74164e-43	1.000000	1.74165e-43	1.000000
rad5	3.22104e-45	1.000000	3.22105e-45	1.000000
rad37	3.07186e-46	1.000000	3.07187e-46	1.000000
rad52	6.48630e-50	1.000000	6.48632e-50	1.000000
rad19syn	9.32594e-52	1.000000	9.32597e-52	1.000000
rad51	8.31073e-55	1.000000	8.31076e-55	1.000000
rad54	3.69109e-55	1.000000	3.69110e-55	1.000000
rad43	1.00761e-56	1.000000	1.00762e-56	1.000000
rad62	9.80510e-58	1.000000	9.80514e-58	1.000000
PAH10+CH3	6.79820e-58	1.000000	6.79822e-58	1.000000
rad65	1.24218e-58	1.000000	1.24218e-58	1.000000
rad70	3.69631e-61	1.000000	3.69632e-61	1.000000
PhcycC3H3_A+H	1.53273e-61	1.000000	1.53274e-61	1.000000
rad55	7.26672e-62	1.000000	7.26674e-62	1.000000
rad58	2.49358e-62	1.000000	2.49359e-62	1.000000
rad47	6.37823e-64	1.000000	6.37825e-64	1.000000
PAH1+H	4.41334e-66	1.000000	4.41335e-66	1.000000
rad34	1.41460e-66	1.000000	1.41460e-66	1.000000
rad42	1.11211e-69	1.000000	1.11211e-69	1.000000
rad41	3.04733e-70	1.000000	3.04734e-70	1.000000

100.000000 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.28864e-49 (1.00)	7.28861e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.569026	0.569026	0.569029	0.569029
Indene+H	0.313595	0.882621	0.313596	0.882625
rad18	0.0613365	0.943958	0.0613368	0.943962
rad45	0.0196734	0.963631	0.0196735	0.963635
rad23	0.0174214	0.981052	0.0174215	0.981057
rad20	0.0108368	0.991889	0.0108368	0.991894
rad21	0.00670118	0.998590	0.00670121	0.998595
rad36	0.00122067	0.999811	0.00122068	0.999815
rad11	0.000181893	0.999993	0.000181894	0.999997
Benzyl+C2H2	4.88503e-06	0.999998	0.00000	0.999997
rad6	2.02382e-06	1.000000	2.02383e-06	0.999999
rad24	1.78923e-10	1.000000	1.78924e-10	0.999999

rad7	1.31638e-11	1.000000	1.31639e-11	0.999999
rad13	2.90453e-12	1.000000	2.90455e-12	0.999999
rad30	2.58268e-14	1.000000	2.58269e-14	0.999999
rad33	3.17797e-15	1.000000	3.17799e-15	0.999999
rad35	5.02765e-16	1.000000	5.02768e-16	0.999999
rad3	2.35132e-16	1.000000	2.35133e-16	0.999999
PAH9+H	2.20320e-16	1.000000	2.20321e-16	0.999999
rad38	1.28207e-16	1.000000	1.28207e-16	0.999999
rad4	1.19220e-16	1.000000	1.19221e-16	0.999999
rad15	1.36179e-17	1.000000	1.36180e-17	0.999999
rad25	9.72053e-18	1.000000	9.72057e-18	0.999999
rad2	7.63139e-20	1.000000	7.63143e-20	0.999999
rad28	5.65204e-21	1.000000	5.65207e-21	0.999999
rad1	4.87810e-21	1.000000	4.87812e-21	0.999999
PhCHCCH2+H	1.37455e-23	1.000000	1.37456e-23	0.999999
rad10	9.06265e-24	1.000000	9.06269e-24	0.999999
rad46	2.22634e-24	1.000000	2.22635e-24	0.999999
rad31	7.12336e-26	1.000000	7.12339e-26	0.999999
rad9	1.89090e-26	1.000000	1.89091e-26	0.999999
rad14	1.29240e-26	1.000000	1.29241e-26	0.999999
PhCCH+CH3	6.47881e-27	1.000000	6.47884e-27	0.999999
rad27	2.10001e-28	1.000000	2.10002e-28	0.999999
Ph+Allene	1.77847e-30	1.000000	1.77848e-30	0.999999
rad26	9.26687e-31	1.000000	9.26691e-31	0.999999
PhCCCH3+H	6.16986e-31	1.000000	6.16989e-31	0.999999
rad8	2.04467e-31	1.000000	2.04468e-31	0.999999
rad60syn	6.11805e-33	1.000000	6.11808e-33	0.999999
Ph+MeAc	2.26990e-34	1.000000	2.26992e-34	0.999999
rad60anti	1.73151e-34	1.000000	1.73152e-34	0.999999
PAH7+H	2.39520e-35	1.000000	2.39521e-35	0.999999
PhCH2CCH+H	2.63288e-36	1.000000	2.63290e-36	0.999999
rad39	6.74339e-37	1.000000	6.74342e-37	0.999999
rad50	1.99710e-40	1.000000	1.99711e-40	0.999999
rad12	3.08832e-41	1.000000	3.08833e-41	0.999999
PAH3+H	1.65833e-42	1.000000	1.65834e-42	0.999999
rad59	8.33642e-43	1.000000	8.33646e-43	0.999999
rad5	4.08849e-44	1.000000	4.08851e-44	0.999999
rad37	4.89192e-45	1.000000	4.89194e-45	0.999999
rad52	6.89248e-49	1.000000	6.89251e-49	0.999999
rad19syn	8.98103e-51	1.000000	8.98108e-51	0.999999
rad51	1.00581e-53	1.000000	1.00582e-53	0.999999
rad54	3.75307e-54	1.000000	3.75309e-54	0.999999
rad43	1.72112e-55	1.000000	1.72112e-55	0.999999
PAH10+CH3	1.37311e-56	1.000000	1.37311e-56	0.999999
rad62	1.18775e-56	1.000000	1.18776e-56	0.999999
rad65	1.57764e-57	1.000000	1.57765e-57	0.999999
rad70	4.51674e-60	1.000000	4.51676e-60	0.999999
PhcycC3H3_A+H	1.76841e-60	1.000000	1.76842e-60	0.999999
rad55	8.34175e-61	1.000000	8.34179e-61	0.999999
rad58	3.35514e-61	1.000000	3.35516e-61	0.999999
rad47	7.92227e-63	1.000000	7.92231e-63	0.999999
PAH1+H	6.34891e-65	1.000000	6.34894e-65	0.999999
rad34	1.89187e-65	1.000000	1.89188e-65	0.999999
rad42	1.96068e-68	1.000000	1.96069e-68	0.999999
rad41	7.43932e-69	1.000000	7.43935e-69	0.999999

100.000000 Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.85154e-45 (1.00)	6.85149e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.563056	0.563056	0.563060	0.563060
Indene+H	0.335035	0.898091	0.335038	0.898098
rad18	0.0492287	0.947320	0.0492290	0.947327
rad23	0.0201382	0.967458	0.0201383	0.967465
rad45	0.0189769	0.986435	0.0189770	0.986442
rad20	0.00753056	0.993965	0.00753061	0.993973
rad21	0.00465020	0.998616	0.00465023	0.998623
rad36	0.00117680	0.999792	0.00117681	0.999800
rad11	0.000197780	0.999990	0.000197782	0.999998
Benzyl+C2H2	6.82706e-06	0.999997	0.000000	0.999998
rad6	2.71499e-06	1.000000	2.71501e-06	1.000000
rad24	1.70502e-10	1.000000	1.70503e-10	1.000000
rad7	2.19837e-11	1.000000	2.19839e-11	1.000000
rad13	3.79887e-12	1.000000	3.79889e-12	1.000000
rad30	1.26719e-13	1.000000	1.26720e-13	1.000000
rad33	4.18430e-15	1.000000	4.18433e-15	1.000000

rad35	1.04975e-15	1.000000	1.04975e-15	1.00000
PAH9+H	5.35070e-16	1.000000	5.35074e-16	1.00000
rad3	4.76252e-16	1.000000	4.76255e-16	1.00000
rad38	3.83328e-16	1.000000	3.83331e-16	1.00000
rad4	2.41667e-16	1.000000	2.41669e-16	1.00000
rad15	1.30716e-16	1.000000	1.30717e-16	1.00000
rad25	6.28118e-17	1.000000	6.28122e-17	1.00000
rad2	2.40620e-19	1.000000	2.40622e-19	1.00000
rad28	2.79915e-20	1.000000	2.79917e-20	1.00000
rad1	1.54276e-20	1.000000	1.54277e-20	1.00000
PhCHCCH2+H	1.62107e-22	1.000000	1.62108e-22	1.00000
rad10	4.30641e-23	1.000000	4.30644e-23	1.00000
rad46	1.58637e-23	1.000000	1.58638e-23	1.00000
rad9	2.49658e-25	1.000000	2.49659e-25	1.00000
rad31	1.51007e-25	1.000000	1.51008e-25	1.00000
rad14	1.09557e-25	1.000000	1.09558e-25	1.00000
PhCCH+CH3	7.09863e-26	1.000000	7.09868e-26	1.00000
rad27	1.54542e-27	1.000000	1.54543e-27	1.00000
Ph+Allene	2.43516e-29	1.000000	2.43518e-29	1.00000
rad26	1.05114e-29	1.000000	1.05115e-29	1.00000
PhCCCH3+H	8.31232e-30	1.000000	8.31237e-30	1.00000
rad8	5.29572e-30	1.000000	5.29575e-30	1.00000
rad60syn	1.53096e-31	1.000000	1.53097e-31	1.00000
Ph+MeAc	4.11933e-33	1.000000	4.11935e-33	1.00000
rad60anti	2.96955e-33	1.000000	2.96957e-33	1.00000
PAH7+H	3.53855e-34	1.000000	3.53857e-34	1.00000
PhCH2CCH+H	3.63796e-35	1.000000	3.63798e-35	1.00000
rad39	1.05458e-35	1.000000	1.05459e-35	1.00000
rad50	2.76813e-39	1.000000	2.76815e-39	1.00000
rad12	7.42240e-40	1.000000	7.42245e-40	1.00000
PAH3+H	1.73024e-41	1.000000	1.73025e-41	1.00000
rad59	8.59472e-42	1.000000	8.59478e-42	1.00000
rad5	1.04099e-42	1.000000	1.04100e-42	1.00000
rad37	1.48357e-43	1.000000	1.48358e-43	1.00000
rad52	1.22514e-47	1.000000	1.22515e-47	1.00000
rad19syn	1.79755e-49	1.000000	1.79756e-49	1.00000
rad51	2.08900e-52	1.000000	2.08902e-52	1.00000
rad54	7.94993e-53	1.000000	7.94998e-53	1.00000
rad43	6.56170e-54	1.000000	6.56175e-54	1.00000
PAH10+CH3	5.95219e-55	1.000000	5.95223e-55	1.00000
rad62	3.24030e-55	1.000000	3.24032e-55	1.00000
rad65	3.49050e-56	1.000000	3.49053e-56	1.00000
rad70	1.06842e-58	1.000000	1.06842e-58	1.00000
PhcycC3H3_A+H	4.26367e-59	1.000000	4.26370e-59	1.00000
rad55	2.00089e-59	1.000000	2.00091e-59	1.00000
rad58	7.95923e-60	1.000000	7.95928e-60	1.00000
rad47	1.78078e-61	1.000000	1.78079e-61	1.00000
PAH1+H	1.85009e-63	1.000000	1.85011e-63	1.00000
rad34	5.01678e-64	1.000000	5.01681e-64	1.00000
rad42	9.03898e-67	1.000000	9.03904e-67	1.00000
rad41	4.61734e-67	1.000000	4.61738e-67	1.00000

100.000000 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02670e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.555519	0.555519	0.555524	0.555524
Indene+H	0.353811	0.909330	0.353814	0.909338
rad18	0.0395407	0.948871	0.0395411	0.948879
rad23	0.0228785	0.971749	0.0228787	0.971758
rad45	0.0182411	0.989990	0.0182413	0.989999
rad20	0.00535155	0.995342	0.00535160	0.995351
rad21	0.00330087	0.998643	0.00330090	0.998652
rad36	0.00113072	0.999773	0.00113073	0.999782
rad11	0.000214342	0.999988	0.000214344	0.999997
Benzyl+C2H2	9.39467e-06	0.999997	0.00000	0.999997
rad6	3.60732e-06	1.00000	3.60736e-06	1.00000
rad24	1.62476e-10	1.00000	1.62478e-10	1.00000
rad7	3.63255e-11	1.00000	3.63259e-11	1.00000
rad13	4.93224e-12	1.00000	4.93229e-12	1.00000
rad30	5.54533e-13	1.00000	5.54538e-13	1.00000
rad33	5.46804e-15	1.00000	5.46809e-15	1.00000
rad35	2.13015e-15	1.00000	2.13017e-15	1.00000
PAH9+H	1.25503e-15	1.00000	1.25504e-15	1.00000
rad15	1.15581e-15	1.00000	1.15582e-15	1.00000
rad38	1.07920e-15	1.00000	1.07921e-15	1.00000

rad3	9.68930e-16	1.00000	9.68939e-16	1.00000
rad4	4.92098e-16	1.00000	4.92102e-16	1.00000
rad25	4.13771e-16	1.00000	4.13774e-16	1.00000
rad2	7.92948e-19	1.00000	7.92956e-19	1.00000
rad28	1.40224e-19	1.00000	1.40226e-19	1.00000
rad1	5.10105e-20	1.00000	5.10110e-20	1.00000
PhCHCCH2+H	3.18217e-21	1.00000	3.18220e-21	1.00000
rad10	2.24289e-22	1.00000	2.24291e-22	1.00000
rad46	1.53184e-22	1.00000	1.53185e-22	1.00000
rad9	7.23984e-24	1.00000	7.23991e-24	1.00000
rad14	1.06870e-24	1.00000	1.06871e-24	1.00000
PhCCH+CH3	1.02643e-24	1.00000	1.02644e-24	1.00000
rad31	3.22634e-25	1.00000	3.22637e-25	1.00000
rad27	1.25178e-26	1.00000	1.25180e-26	1.00000
rad8	1.07164e-27	1.00000	1.07165e-27	1.00000
Ph+Allene	9.35466e-28	1.00000	9.35474e-28	1.00000
PhCCCH3+H	1.55410e-28	1.00000	1.55411e-28	1.00000
rad26	1.48897e-28	1.00000	1.48899e-28	1.00000
rad60syn	2.69493e-29	1.00000	2.69496e-29	1.00000
rad60anti	4.43701e-31	1.00000	4.43705e-31	1.00000
Ph+MeAc	1.46181e-31	1.00000	1.46183e-31	1.00000
PAH7+H	9.95593e-33	1.00000	9.95602e-33	1.00000
PhCH2CCH+H	1.43944e-33	1.00000	1.43946e-33	1.00000
rad39	3.40143e-34	1.00000	3.40146e-34	1.00000
rad50	6.98943e-38	1.00000	6.98950e-38	1.00000
rad12	3.20692e-38	1.00000	3.20695e-38	1.00000
PAH3+H	4.99513e-40	1.00000	4.99518e-40	1.00000
rad59	2.49267e-40	1.00000	2.49270e-40	1.00000
rad5	5.87663e-41	1.00000	5.87668e-41	1.00000
rad37	9.47769e-42	1.00000	9.47778e-42	1.00000
rad52	4.13307e-46	1.00000	4.13310e-46	1.00000
rad19syn	8.74211e-48	1.00000	8.74219e-48	1.00000
rad51	8.44799e-51	1.00000	8.44807e-51	1.00000
rad54	4.09715e-51	1.00000	4.09719e-51	1.00000
rad43	6.33116e-52	1.00000	6.33122e-52	1.00000
PAH10+CH3	6.33689e-53	1.00000	6.33695e-53	1.00000
rad62	2.39245e-53	1.00000	2.39247e-53	1.00000
rad65	1.52649e-54	1.00000	1.52650e-54	1.00000
rad70	5.65748e-57	1.00000	5.65754e-57	1.00000
PhcycC3H3_A+H	2.50230e-57	1.00000	2.50233e-57	1.00000
rad55	1.16824e-57	1.00000	1.16825e-57	1.00000
rad58	3.77734e-58	1.00000	3.77738e-58	1.00000
rad47	8.18153e-60	1.00000	8.18161e-60	1.00000
PAH1+H	1.28894e-61	1.00000	1.28895e-61	1.00000
rad34	3.03557e-62	1.00000	3.03560e-62	1.00000
rad42	1.32909e-64	1.00000	1.32910e-64	1.00000
rad41	8.31663e-65	1.00000	8.31671e-65	1.00000

100.000000 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04927e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.546791	0.546791	0.546798	0.546798
Indene+H	0.370682	0.917473	0.370687	0.917485
rad18	0.0317840	0.949257	0.0317844	0.949269
rad23	0.0256606	0.974918	0.0256609	0.974930
rad45	0.0174883	0.992406	0.0174885	0.992419
rad20	0.00387351	0.996279	0.00387356	0.996292
rad21	0.00238695	0.998666	0.00238698	0.998679
rad36	0.00108380	0.999750	0.00108381	0.999763
rad11	0.000231890	0.999982	0.000231893	0.999995
Benzyl+C2H2	1.27718e-05	0.999995	0.00000	0.999995
rad6	4.77221e-06	1.000000	4.77228e-06	1.000000
rad24	1.54828e-10	1.000000	1.54829e-10	1.000000
rad7	5.98867e-11	1.000000	5.98875e-11	1.000000
rad13	6.38904e-12	1.000000	6.38913e-12	1.000000
rad30	2.00899e-12	1.000000	2.00902e-12	1.000000
rad15	7.69392e-15	1.000000	7.69402e-15	1.000000
rad33	7.12761e-15	1.000000	7.12770e-15	1.000000
rad35	4.23499e-15	1.000000	4.23504e-15	1.000000
PAH9+H	2.84402e-15	1.000000	2.84406e-15	1.000000
rad38	2.79624e-15	1.000000	2.79628e-15	1.000000
rad25	2.34429e-15	1.000000	2.34432e-15	1.000000
rad3	1.99490e-15	1.000000	1.99493e-15	1.000000
rad4	1.01414e-15	1.000000	1.01415e-15	1.000000
rad2	2.72604e-18	1.000000	2.72608e-18	1.000000

rad28	6.59490e-19	1.000000	6.59499e-19	1.000000
rad1	1.76008e-19	1.000000	1.76010e-19	1.000000
PhCHCCH2+H	5.99643e-20	1.000000	5.99650e-20	1.000000
rad46	1.56302e-21	1.000000	1.56304e-21	1.000000
rad10	1.25239e-21	1.000000	1.25241e-21	1.000000
rad9	2.26185e-22	1.000000	2.26188e-22	1.000000
PhCCH+CH3	1.51117e-23	1.000000	1.51119e-23	1.000000
rad14	1.00998e-23	1.000000	1.00999e-23	1.000000
rad8	2.55106e-24	1.000000	2.55109e-24	1.000000
rad31	6.99462e-25	1.000000	6.99471e-25	1.000000
Ph+Allene	1.09262e-25	1.000000	1.09263e-25	1.000000
rad27	1.00968e-25	1.000000	1.00969e-25	1.000000
rad60syn	2.73231e-26	1.000000	2.73235e-26	1.000000
PhCCCH3+H	3.12049e-27	1.000000	3.12053e-27	1.000000
rad26	2.29354e-27	1.000000	2.29357e-27	1.000000
rad60anti	1.05285e-27	1.000000	1.05286e-27	1.000000
Ph+MeAc	7.61673e-30	1.000000	7.61683e-30	1.000000
PAH7+H	3.60359e-31	1.000000	3.60363e-31	1.000000
PhCH2CCH+H	1.73209e-31	1.000000	1.73211e-31	1.000000
rad39	1.58030e-32	1.000000	1.58032e-32	1.000000
rad50	3.50489e-36	1.000000	3.50494e-36	1.000000
rad12	1.90881e-36	1.000000	1.90883e-36	1.000000
PAH3+H	8.04132e-38	1.000000	8.04142e-38	1.000000
rad59	4.16020e-38	1.000000	4.16025e-38	1.000000
rad5	6.17851e-39	1.000000	6.17859e-39	1.000000
rad37	1.06720e-39	1.000000	1.06721e-39	1.000000
rad52	2.88330e-44	1.000000	2.88334e-44	1.000000
rad19syn	9.81984e-46	1.000000	9.81996e-46	1.000000
rad51	7.24902e-49	1.000000	7.24912e-49	1.000000
rad54	4.88482e-49	1.000000	4.88488e-49	1.000000
rad43	1.31975e-49	1.000000	1.31977e-49	1.000000
PAH10+CH3	1.42797e-50	1.000000	1.42799e-50	1.000000
rad62	4.34262e-51	1.000000	4.34268e-51	1.000000
rad65	1.43834e-52	1.000000	1.43835e-52	1.000000
rad70	6.87468e-55	1.000000	6.87477e-55	1.000000
PhcycC3H3_A+H	3.40614e-55	1.000000	3.40618e-55	1.000000
rad55	1.58182e-55	1.000000	1.58184e-55	1.000000
rad58	3.90822e-56	1.000000	3.90827e-56	1.000000
rad47	8.34516e-58	1.000000	8.34527e-58	1.000000
PAH1+H	2.14518e-59	1.000000	2.14520e-59	1.000000
rad34	4.23982e-60	1.000000	4.23988e-60	1.000000
rad42	5.18031e-62	1.000000	5.18037e-62	1.000000
rad41	3.59434e-62	1.000000	3.59439e-62	1.000000

100.000000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87096e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.537061	0.537061	0.537070	0.537070
Indene+H	0.386231	0.923292	0.386238	0.923308
rad23	0.0285016	0.951794	0.0285021	0.951810
rad18	0.0255643	0.977358	0.0255648	0.977375
rad45	0.0167317	0.994090	0.0167320	0.994107
rad20	0.00284669	0.996936	0.00284674	0.996954
rad21	0.00175283	0.998689	0.00175286	0.998706
rad36	0.00103686	0.999726	0.00103688	0.999743
rad11	0.000250683	0.999977	0.000250687	0.999994
Benzyl+C2H2	1.71954e-05	0.999994	0.00000	0.999994
rad6	6.30782e-06	1.00000	6.30793e-06	1.00000
rad24	1.47531e-10	1.00000	1.47533e-10	1.00000
rad7	9.89568e-11	1.00000	9.89585e-11	1.00000
rad13	8.28374e-12	1.00000	8.28388e-12	1.00000
rad30	6.09572e-12	1.00000	6.09583e-12	1.00000
rad15	3.89377e-14	1.00000	3.89384e-14	1.00000
rad25	1.09866e-14	1.00000	1.09867e-14	1.00000
rad33	9.29710e-15	1.00000	9.29725e-15	1.00000
rad35	8.30010e-15	1.00000	8.30024e-15	1.00000
rad38	6.68528e-15	1.00000	6.68540e-15	1.00000
PAH9+H	6.25362e-15	1.00000	6.25373e-15	1.00000
rad3	4.16774e-15	1.00000	4.16781e-15	1.00000
rad4	2.12098e-15	1.00000	2.12102e-15	1.00000
rad2	9.66274e-18	1.00000	9.66291e-18	1.00000
rad28	2.83993e-18	1.00000	2.83998e-18	1.00000
PhCHCCH2+H	8.47315e-19	1.00000	8.47329e-19	1.00000
rad1	6.26362e-19	1.00000	6.26373e-19	1.00000
rad46	1.36816e-20	1.00000	1.36819e-20	1.00000

rad10	7.24004e-21	1.00000	7.24016e-21	1.00000
rad9	5.06481e-21	1.00000	5.06490e-21	1.00000
PhCCH+CH3	1.94766e-22	1.00000	1.94769e-22	1.00000
rad8	1.51199e-22	1.00000	1.51201e-22	1.00000
rad14	8.48022e-23	1.00000	8.48036e-23	1.00000
Ph+Allene	6.87436e-24	1.00000	6.87448e-24	1.00000
rad60syn	1.62855e-24	1.00000	1.62857e-24	1.00000
rad31	1.54199e-24	1.00000	1.54202e-24	1.00000
rad27	7.56418e-25	1.00000	7.56431e-25	1.00000
rad60anti	9.81992e-26	1.00000	9.82008e-26	1.00000
PhCCCH3+H	5.65064e-26	1.00000	5.65074e-26	1.00000
rad26	3.44085e-26	1.00000	3.44090e-26	1.00000
Ph+MeAc	3.48320e-28	1.00000	3.48326e-28	1.00000
PhCH2CCH+H	3.09377e-29	1.00000	3.09382e-29	1.00000
PAH7+H	1.99979e-29	1.00000	1.99982e-29	1.00000
rad39	6.18616e-31	1.00000	6.18627e-31	1.00000
rad50	2.65480e-34	1.00000	2.65484e-34	1.00000
rad12	1.06386e-34	1.00000	1.06388e-34	1.00000
PAH3+H	3.21618e-35	1.00000	3.21623e-35	1.00000
rad59	1.68805e-35	1.00000	1.68808e-35	1.00000
rad5	7.05581e-37	1.00000	7.05594e-37	1.00000
rad37	1.25762e-37	1.00000	1.25764e-37	1.00000
rad52	3.15893e-42	1.00000	3.15898e-42	1.00000
rad19syn	1.45081e-43	1.00000	1.45084e-43	1.00000
rad51	1.00209e-46	1.00000	1.00211e-46	1.00000
rad54	7.67542e-47	1.00000	7.67555e-47	1.00000
rad43	3.28296e-47	1.00000	3.28301e-47	1.00000
PAH10+CH3	3.80332e-48	1.00000	3.80339e-48	1.00000
rad62	1.04170e-48	1.00000	1.04171e-48	1.00000
rad65	2.21746e-50	1.00000	2.21749e-50	1.00000
rad70	1.19957e-52	1.00000	1.19959e-52	1.00000
PhcycC3H3_A+H	6.14605e-53	1.00000	6.14615e-53	1.00000
rad55	2.83832e-53	1.00000	2.83837e-53	1.00000
rad58	6.68442e-54	1.00000	6.68453e-54	1.00000
rad47	1.43055e-55	1.00000	1.43057e-55	1.00000
PAH1+H	5.14267e-57	1.00000	5.14276e-57	1.00000
rad34	8.54593e-58	1.00000	8.54608e-58	1.00000
rad42	2.67558e-59	1.00000	2.67562e-59	1.00000
rad41	1.95895e-59	1.00000	1.95899e-59	1.00000

100.000000 Pa, 130.000000 K

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

Total | 3.94360e-35 (1.00) | 3.94351e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.526407	0.526407	0.526419	0.526419
Indene+H	0.400911	0.927318	0.400920	0.927339
rad23	0.0314172	0.958735	0.0314180	0.958757
rad18	0.0205693	0.979305	0.0205697	0.979327
rad45	0.0159802	0.995285	0.0159805	0.995307
rad20	0.00211887	0.997404	0.00211892	0.997426
rad21	0.00130384	0.998707	0.00130387	0.998730
rad36	0.000990429	0.999698	0.000990452	0.999720
rad11	0.000270934	0.999969	0.000270940	0.999991
Benzyl+C2H2	2.29673e-05	0.999992	0.00000	0.999991
rad6	8.34811e-06	1.00000	8.34830e-06	1.000000
rad7	1.64141e-10	1.00000	1.64145e-10	1.000000
rad24	1.40564e-10	1.00000	1.40567e-10	1.000000
rad30	1.59517e-11	1.00000	1.59520e-11	1.000000
rad13	1.07707e-11	1.00000	1.07709e-11	1.000000
rad15	1.56878e-13	1.00000	1.56881e-13	1.000000
rad25	4.30874e-14	1.00000	4.30884e-14	1.000000
rad35	1.60999e-14	1.00000	1.61003e-14	1.000000
rad38	1.49155e-14	1.00000	1.49158e-14	1.000000
PAH9+H	1.34107e-14	1.00000	1.34110e-14	1.000000
rad33	1.21581e-14	1.00000	1.21583e-14	1.000000
rad3	8.82600e-15	1.00000	8.82620e-15	1.000000
rad4	4.49681e-15	1.00000	4.49691e-15	1.000000
rad2	3.47410e-17	1.00000	3.47418e-17	1.000000
rad28	1.11906e-17	1.00000	1.11909e-17	1.000000
PhCHCCH2+H	8.77395e-18	1.00000	8.77415e-18	1.000000
rad1	2.26176e-18	1.00000	2.26181e-18	1.000000
rad46	9.62859e-20	1.00000	9.62881e-20	1.000000
rad9	7.75508e-20	1.00000	7.75526e-20	1.000000
rad10	4.18502e-20	1.00000	4.18511e-20	1.000000
rad8	4.69361e-21	1.00000	4.69372e-21	1.000000
PhCCH+CH3	2.10100e-21	1.00000	2.10105e-21	1.000000

rad14	6.16401e-22	1.00000	6.16415e-22	1.000000
Ph+Allene	2.42970e-22	1.00000	2.42976e-22	1.000000
rad60syn	5.09727e-23	1.00000	5.09738e-23	1.000000
rad27	5.07923e-24	1.00000	5.07935e-24	1.000000
rad60anti	3.91346e-24	1.00000	3.91355e-24	1.000000
rad31	3.45177e-24	1.00000	3.45185e-24	1.000000
PhCCCH3+H	8.66644e-25	1.00000	8.66664e-25	1.000000
rad26	4.72493e-25	1.00000	4.72504e-25	1.000000
Ph+MeAc	1.17906e-26	1.00000	1.17909e-26	1.000000
PhCH2CCH+H	1.06075e-26	1.00000	1.06077e-26	1.000000
PAH7+H	1.07643e-27	1.00000	1.07645e-27	1.000000
rad39	1.79148e-29	1.00000	1.79152e-29	1.000000
rad50	2.45685e-32	1.00000	2.45691e-32	1.000000
PAH3+H	2.10225e-32	1.00000	2.10230e-32	1.000000
rad59	1.10580e-32	1.00000	1.10583e-32	1.000000
rad12	4.86977e-33	1.00000	4.86988e-33	1.000000
rad5	7.46615e-35	1.00000	7.46632e-35	1.000000
rad37	1.30892e-35	1.00000	1.30895e-35	1.000000
rad52	4.39407e-40	1.00000	4.39417e-40	1.000000
rad19syn	2.67437e-41	1.00000	2.67443e-41	1.000000
rad51	1.80258e-44	1.00000	1.80262e-44	1.000000
rad54	1.50664e-44	1.00000	1.50668e-44	1.000000
rad43	8.47905e-45	1.00000	8.47925e-45	1.000000
PAH10+CH3	1.04718e-45	1.00000	1.04720e-45	1.000000
rad62	2.80903e-46	1.00000	2.80909e-46	1.000000
rad65	4.51719e-48	1.00000	4.51729e-48	1.000000
rad70	2.67174e-50	1.00000	2.67180e-50	1.000000
PhcycC3H3_A+H	1.38959e-50	1.00000	1.38963e-50	1.000000
rad55	6.37990e-51	1.00000	6.38005e-51	1.000000
rad58	1.52621e-51	1.00000	1.52624e-51	1.000000
rad47	3.31760e-53	1.00000	3.31768e-53	1.000000
PAH1+H	1.63546e-54	1.00000	1.63550e-54	1.000000
rad34	2.22928e-55	1.00000	2.22934e-55	1.000000
rad42	1.50544e-56	1.00000	1.50548e-56	1.000000
rad41	1.14103e-56	1.00000	1.14105e-56	1.000000

100.000000 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.44756e-33 (1.00)	1.44751e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.514854	0.514854	0.514869	0.514869
Indene+H	0.415079	0.929933	0.415092	0.929961
rad23	0.0344214	0.964354	0.0344224	0.964383
rad18	0.0165521	0.980907	0.0165526	0.980936
rad45	0.0152398	0.996146	0.0152403	0.996176
rad20	0.00159417	0.997740	0.00159422	0.997771
rad21	0.000980439	0.998721	0.000980469	0.998751
rad36	0.000944887	0.999666	0.000944916	0.999696
rad11	0.000292811	0.999959	0.000292820	0.999989
Benzyl+C2H2	3.04687e-05	0.999989	0.000000	0.999989
rad6	1.10742e-05	1.00000	1.10745e-05	1.000000
rad7	2.73050e-10	1.00000	2.73058e-10	1.000000
rad24	1.33911e-10	1.00000	1.33915e-10	1.000000
rad30	3.70315e-11	1.00000	3.70326e-11	1.000000
rad13	1.40562e-11	1.00000	1.40566e-11	1.000000
rad15	5.25656e-13	1.00000	5.25672e-13	1.000000
rad25	1.44673e-13	1.00000	1.44678e-13	1.000000
rad38	3.14347e-14	1.00000	3.14356e-14	1.000000
rad35	3.09700e-14	1.00000	3.09709e-14	1.000000
PAH9+H	2.81643e-14	1.00000	2.81652e-14	1.000000
rad3	1.88726e-14	1.00000	1.88731e-14	1.000000
rad33	1.59543e-14	1.00000	1.59548e-14	1.000000
rad4	9.62775e-15	1.00000	9.62805e-15	1.000000
rad2	1.24582e-16	1.00000	1.24586e-16	1.000000
PhCHCCH2+H	6.89667e-17	1.00000	6.89688e-17	1.000000
rad28	4.06433e-17	1.00000	4.06445e-17	1.000000
rad1	8.14905e-18	1.00000	8.14929e-18	1.000000
rad9	8.46063e-19	1.00000	8.46089e-19	1.000000
rad46	5.48280e-19	1.00000	5.48296e-19	1.000000
rad10	2.35048e-19	1.00000	2.35055e-19	1.000000
rad8	8.89902e-20	1.00000	8.89929e-20	1.000000
PhCCH+CH3	1.89607e-20	1.00000	1.89613e-20	1.000000
Ph+Allene	5.35737e-21	1.00000	5.35753e-21	1.000000
rad14	3.87138e-21	1.00000	3.87150e-21	1.000000
rad60syn	9.71547e-22	1.00000	9.71576e-22	1.000000
rad60anti	9.06241e-23	1.00000	9.06269e-23	1.000000

rad27	3.01678e-23	1.00000	3.01687e-23	1.000000
PhCCCH3+H	1.11145e-23	1.00000	1.11148e-23	1.000000
rad31	7.81501e-24	1.00000	7.81525e-24	1.000000
rad26	5.75035e-24	1.00000	5.75053e-24	1.000000
PhCH2CCH+H	7.08596e-25	1.00000	7.08618e-25	1.000000
Ph+MeAc	2.84015e-25	1.00000	2.84023e-25	1.000000
PAH7+H	3.67270e-26	1.00000	3.67281e-26	1.000000
rad39	3.78478e-28	1.00000	3.78490e-28	1.000000
PAH3+H	1.16570e-28	1.00000	1.16573e-28	1.000000
rad59	5.85486e-29	1.00000	5.85504e-29	1.000000
rad50	2.32326e-30	1.00000	2.32333e-30	1.000000
rad12	1.70645e-31	1.00000	1.70650e-31	1.000000
rad5	5.52059e-33	1.00000	5.52076e-33	1.000000
rad37	9.27005e-34	1.00000	9.27033e-34	1.000000
rad52	5.64745e-38	1.00000	5.64762e-38	1.000000
rad19syn	4.42832e-39	1.00000	4.42845e-39	1.000000
rad51	3.06533e-42	1.00000	3.06543e-42	1.000000
rad54	2.65993e-42	1.00000	2.66001e-42	1.000000
rad43	1.70953e-42	1.00000	1.70958e-42	1.000000
PAH10+CH3	2.25048e-43	1.00000	2.25055e-43	1.000000
rad62	6.14759e-44	1.00000	6.14778e-44	1.000000
rad65	8.82818e-46	1.00000	8.82844e-46	1.000000
rad70	5.47899e-48	1.00000	5.47915e-48	1.000000
PhcycC3H3_A+H	2.83377e-48	1.00000	2.83385e-48	1.000000
rad55	1.29306e-48	1.00000	1.29310e-48	1.000000
rad58	3.37476e-49	1.00000	3.37486e-49	1.000000
rad47	7.53159e-51	1.00000	7.53182e-51	1.000000
PAH1+H	4.85368e-52	1.00000	4.85383e-52	1.000000
rad34	5.46851e-53	1.00000	5.46868e-53	1.000000
rad42	6.73593e-54	1.00000	6.73613e-54	1.000000
rad41	5.25393e-54	1.00000	5.25409e-54	1.000000

100.000000 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27723e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.502393	0.502393	0.502413	0.502413
Indene+H	0.429021	0.931414	0.429039	0.931452
rad23	0.0375255	0.968939	0.0375270	0.968979
rad45	0.0145159	0.983455	0.0145165	0.983495
rad18	0.0133178	0.996773	0.0133183	0.996814
rad20	0.00121041	0.997984	0.00121045	0.998024
rad36	0.000900543	0.998884	0.000900579	0.998925
rad21	0.000744089	0.999628	0.000744119	0.999669
rad11	0.000316431	0.999945	0.000316444	0.999985
Benzyl+C2H2	4.01756e-05	0.999985	0.00000	0.999985
rad6	1.47280e-05	1.000000	1.47286e-05	1.000000
rad7	4.54286e-10	1.000000	4.54304e-10	1.000000
rad24	1.27566e-10	1.000000	1.27571e-10	1.000000
rad30	7.80647e-11	1.000000	7.80678e-11	1.000000
rad13	1.84129e-11	1.000000	1.84137e-11	1.000000
rad15	1.51783e-12	1.000000	1.51789e-12	1.000000
rad25	4.25135e-13	1.000000	4.25152e-13	1.000000
rad38	6.32403e-14	1.000000	6.32428e-14	1.000000
rad35	5.91089e-14	1.000000	5.91113e-14	1.000000
PAH9+H	5.80868e-14	1.000000	5.80892e-14	1.000000
rad3	4.05179e-14	1.000000	4.05195e-14	1.000000
rad33	2.10092e-14	1.000000	2.10101e-14	1.000000
rad4	2.06989e-14	1.000000	2.06997e-14	1.000000
rad2	4.39005e-16	1.000000	4.39023e-16	1.000000
PhCHCCH2+H	4.29280e-16	1.000000	4.29297e-16	1.000000
rad28	1.37186e-16	1.000000	1.37191e-16	1.000000
rad1	2.88634e-17	1.000000	2.88645e-17	1.000000
rad9	6.93260e-18	1.000000	6.93288e-18	1.000000
rad46	2.59437e-18	1.000000	2.59447e-18	1.000000
rad10	1.25556e-18	1.000000	1.25561e-18	1.000000
rad8	1.14161e-18	1.000000	1.14166e-18	1.000000
PhCCH+CH3	1.45042e-19	1.000000	1.45047e-19	1.000000
Ph+Allene	8.05658e-20	1.000000	8.05691e-20	1.000000
rad14	2.11280e-20	1.000000	2.11288e-20	1.000000
rad60syn	1.24923e-20	1.000000	1.24928e-20	1.000000
rad60anti	1.37634e-21	1.000000	1.37639e-21	1.000000
rad27	1.58355e-22	1.000000	1.58362e-22	1.000000
PhCCCH3+H	1.19967e-22	1.000000	1.19972e-22	1.000000
rad26	6.11563e-23	1.000000	6.11587e-23	1.000000
PhCH2CCH+H	2.25507e-23	1.000000	2.25516e-23	1.000000

rad31	1.77981e-23	1.000000	1.77988e-23	1.00000
Ph+MeAc	5.04058e-24	1.000000	5.04078e-24	1.00000
PAH7+H	8.12193e-25	1.000000	8.12225e-25	1.00000
PAH3+H	1.78507e-26	1.000000	1.78514e-26	1.00000
rad59	8.04224e-27	1.000000	8.04256e-27	1.00000
rad39	6.07014e-27	1.000000	6.07038e-27	1.00000
rad50	1.20518e-28	1.000000	1.20523e-28	1.00000
rad12	4.70855e-30	1.000000	4.70874e-30	1.00000
rad5	2.86219e-31	1.000000	2.86230e-31	1.00000
rad37	4.73613e-32	1.000000	4.73632e-32	1.00000
rad52	8.98303e-36	1.000000	8.98339e-36	1.00000
rad19syn	1.20316e-36	1.000000	1.20321e-36	1.00000
rad54	7.72511e-40	1.000000	7.72542e-40	1.00000
rad51	6.57905e-40	1.000000	6.57931e-40	1.00000
rad43	3.71414e-40	1.000000	3.71429e-40	1.00000
PAH10+CH3	5.20871e-41	1.000000	5.20892e-41	1.00000
rad62	1.57319e-41	1.000000	1.57325e-41	1.00000
rad65	2.20751e-43	1.000000	2.20760e-43	1.00000
rad70	1.71538e-45	1.000000	1.71545e-45	1.00000
PhcycC3H3_A+H	9.47581e-46	1.000000	9.47619e-46	1.00000
rad55	4.29817e-46	1.000000	4.29835e-46	1.00000
rad58	9.64424e-47	1.000000	9.64463e-47	1.00000
rad47	2.22413e-48	1.000000	2.22422e-48	1.00000
PAH1+H	1.97420e-49	1.000000	1.97428e-49	1.00000
rad34	2.01581e-50	1.000000	2.01589e-50	1.00000
rad42	3.29052e-51	1.000000	3.29065e-51	1.00000
rad41	2.63313e-51	1.000000	2.63324e-51	1.00000

100.000000 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01142e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.489005	0.489005	0.489030	0.489030
Indene+H	0.442964	0.931969	0.442988	0.932018
rad23	0.0407384	0.972707	0.0407405	0.972758
rad45	0.0138132	0.986521	0.0138139	0.986572
rad18	0.0107120	0.997233	0.0107126	0.997285
rad20	0.000926236	0.998159	0.000926285	0.998211
rad36	0.000857681	0.999017	0.000857726	0.999069
rad21	0.000569195	0.999586	0.000569225	0.999638
rad11	0.000341846	0.999928	0.000341864	0.999980
Benzyl+C2H2	5.26776e-05	0.999980	0.00000	0.999980
rad6	1.96279e-05	1.000000	1.96290e-05	1.000000
rad7	7.53050e-10	1.000000	7.53090e-10	1.000000
rad30	1.52225e-10	1.000000	1.52233e-10	1.000000
rad24	1.21531e-10	1.000000	1.21538e-10	1.000000
rad13	2.41959e-11	1.000000	2.41971e-11	1.000000
rad15	3.88368e-12	1.000000	3.88388e-12	1.000000
rad25	1.11374e-12	1.000000	1.11380e-12	1.000000
rad38	1.22469e-13	1.000000	1.22476e-13	1.000000
PAH9+H	1.17828e-13	1.000000	1.17834e-13	1.000000
rad35	1.11883e-13	1.000000	1.11889e-13	1.000000
rad3	8.67753e-14	1.000000	8.67799e-14	1.000000
rad4	4.43977e-14	1.000000	4.44000e-14	1.000000
rad33	2.77461e-14	1.000000	2.77476e-14	1.000000
PhCHCCH2+H	2.19686e-15	1.000000	2.19697e-15	1.000000
rad2	1.50191e-15	1.000000	1.50199e-15	1.000000
rad28	4.33465e-16	1.000000	4.33488e-16	1.000000
rad1	9.92983e-17	1.000000	9.93036e-17	1.000000
rad9	4.47168e-17	1.000000	4.47192e-17	1.000000
rad8	1.06679e-17	1.000000	1.06685e-17	1.000000
rad46	1.04987e-17	1.000000	1.04992e-17	1.000000
rad10	6.28530e-18	1.000000	6.28563e-18	1.000000
PhCCH+CH3	9.55083e-19	1.000000	9.55133e-19	1.000000
Ph+Allene	8.81892e-19	1.000000	8.81939e-19	1.000000
rad60syn	1.16714e-19	1.000000	1.16720e-19	1.000000
rad14	1.00970e-19	1.000000	1.00975e-19	1.000000
rad60anti	1.48543e-20	1.000000	1.48551e-20	1.000000
PhCCCH3+H	1.10199e-21	1.000000	1.10205e-21	1.000000
rad27	7.38532e-22	1.000000	7.38571e-22	1.000000
rad26	5.65637e-22	1.000000	5.65667e-22	1.000000
PhCH2CCH+H	4.40644e-22	1.000000	4.40667e-22	1.000000
Ph+MeAc	6.81839e-23	1.000000	6.81875e-23	1.000000
rad31	4.05262e-23	1.000000	4.05283e-23	1.000000
PAH7+H	1.24443e-23	1.000000	1.24449e-23	1.000000
PAH3+H	5.34821e-25	1.000000	5.34849e-25	1.000000

rad59	2.25766e-25	1.000000	2.25778e-25	1.000000
rad39	7.65351e-26	1.000000	7.65391e-26	1.000000
rad50	3.13567e-27	1.000000	3.13584e-27	1.000000
rad12	1.00620e-28	1.000000	1.00625e-28	1.000000
rad5	8.96232e-30	1.000000	8.96279e-30	1.000000
rad37	1.58002e-30	1.000000	1.58011e-30	1.000000
rad52	1.08837e-33	1.000000	1.08843e-33	1.000000
rad19syn	2.54725e-34	1.000000	2.54738e-34	1.000000
rad54	1.76124e-37	1.000000	1.76133e-37	1.000000
rad51	1.08765e-37	1.000000	1.08771e-37	1.000000
rad43	5.47234e-38	1.000000	5.47263e-38	1.000000
PAH10+CH3	8.19616e-39	1.000000	8.19659e-39	1.000000
rad62	2.85475e-39	1.000000	2.85490e-39	1.000000
rad65	4.30318e-41	1.000000	4.30340e-41	1.000000
rad70	4.26558e-43	1.000000	4.26581e-43	1.000000
PhcycC3H3_A+H	2.49094e-43	1.000000	2.49107e-43	1.000000
rad55	1.12309e-43	1.000000	1.12315e-43	1.000000
rad58	2.16835e-44	1.000000	2.16847e-44	1.000000
rad47	5.18639e-46	1.000000	5.18666e-46	1.000000
PAH1+H	5.85469e-47	1.000000	5.85500e-47	1.000000
rad34	5.86572e-48	1.000000	5.86602e-48	1.000000
rad42	1.09209e-48	1.000000	1.09214e-48	1.000000
rad41	8.96159e-49	1.000000	8.96206e-49	1.000000

100.000000 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54783e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.474667	0.474667	0.474699	0.474699
Indene+H	0.457087	0.931754	0.457119	0.931818
rad23	0.0440655	0.975819	0.0440685	0.975886
rad45	0.0131362	0.988956	0.0131371	0.989024
rad18	0.00861181	0.997568	0.00861240	0.997636
rad36	0.000816575	0.998384	0.000816631	0.998453
rad20	0.000713580	0.999098	0.000713629	0.999166
rad21	0.000438389	0.999536	0.000438419	0.999605
rad11	0.000369027	0.999905	0.000369053	0.999974
Benzyl+C2H2	6.86976e-05	0.999974	0.00000	0.999974
rad6	2.61855e-05	1.000000	2.61873e-05	1.000000
rad7	1.23848e-09	1.000000	1.23857e-09	1.000000
rad30	2.78573e-10	1.000000	2.78593e-10	1.000000
rad24	1.15818e-10	1.000000	1.15826e-10	1.000000
rad13	3.18590e-11	1.000000	3.18612e-11	1.000000
rad15	8.99990e-12	1.000000	9.00052e-12	1.000000
rad25	2.64024e-12	1.000000	2.64042e-12	1.000000
PAH9+H	2.35228e-13	1.000000	2.35244e-13	1.000000
rad38	2.29795e-13	1.000000	2.29810e-13	1.000000
rad35	2.09828e-13	1.000000	2.09842e-13	1.000000
rad3	1.84180e-13	1.000000	1.84192e-13	1.000000
rad4	9.43913e-14	1.000000	9.43978e-14	1.000000
rad33	3.67094e-14	1.000000	3.67119e-14	1.000000
PhCHCCH2+H	9.53449e-15	1.000000	9.53515e-15	1.000000
rad2	4.94337e-15	1.000000	4.94371e-15	1.000000
rad28	1.28964e-15	1.000000	1.28972e-15	1.000000
rad1	3.28815e-16	1.000000	3.28838e-16	1.000000
rad9	2.36050e-16	1.000000	2.36066e-16	1.000000
rad8	7.68323e-17	1.000000	7.68376e-17	1.000000
rad46	3.72779e-17	1.000000	3.72805e-17	1.000000
rad10	2.92114e-17	1.000000	2.92134e-17	1.000000
Ph+Allene	7.40729e-18	1.000000	7.40780e-18	1.000000
PhCCH+CH3	5.49294e-18	1.000000	5.49332e-18	1.000000
rad60syn	8.38769e-19	1.000000	8.38827e-19	1.000000
rad14	4.26074e-19	1.000000	4.26103e-19	1.000000
rad60anti	1.21088e-19	1.000000	1.21097e-19	1.000000
PhCCCH3+H	8.72535e-21	1.000000	8.72595e-21	1.000000
PhCH2CCH+H	6.09945e-21	1.000000	6.09987e-21	1.000000
rad26	4.55712e-21	1.000000	4.55743e-21	1.000000
rad27	3.08467e-21	1.000000	3.08488e-21	1.000000
Ph+MeAc	7.30677e-22	1.000000	7.30727e-22	1.000000
PAH7+H	1.41154e-22	1.000000	1.41163e-22	1.000000
rad31	9.17096e-23	1.000000	9.17159e-23	1.000000
PAH3+H	9.82082e-24	1.000000	9.82149e-24	1.000000
rad59	3.99856e-24	1.000000	3.99883e-24	1.000000
rad39	7.86720e-25	1.000000	7.86774e-25	1.000000
rad50	5.49600e-26	1.000000	5.49638e-26	1.000000
rad12	1.71121e-27	1.000000	1.71133e-27	1.000000

rad5	1.94263e-28	1.000000	1.94276e-28	1.000000
rad37	3.78594e-29	1.000000	3.78620e-29	1.000000
rad52	1.18963e-31	1.000000	1.18972e-31	1.000000
rad19syn	4.40340e-32	1.000000	4.40371e-32	1.000000
rad54	3.08598e-35	1.000000	3.08619e-35	1.000000
rad51	1.31943e-35	1.000000	1.31952e-35	1.000000
rad43	5.50561e-36	1.000000	5.50599e-36	1.000000
PAH10+CH3	8.83259e-37	1.000000	8.83320e-37	1.000000
rad62	3.75050e-37	1.000000	3.75075e-37	1.000000
rad65	6.21323e-39	1.000000	6.21366e-39	1.000000
rad70	8.26555e-41	1.000000	8.26612e-41	1.000000
PhcycC3H3_A+H	5.04447e-41	1.000000	5.04481e-41	1.000000
rad55	2.26063e-41	1.000000	2.26078e-41	1.000000
rad58	3.65775e-42	1.000000	3.65800e-42	1.000000
rad47	9.03786e-44	1.000000	9.03848e-44	1.000000
PAH1+H	1.25389e-44	1.000000	1.25397e-44	1.000000
rad34	1.30212e-45	1.000000	1.30221e-45	1.000000
rad42	2.47405e-46	1.000000	2.47422e-46	1.000000
rad41	2.08100e-46	1.000000	2.08115e-46	1.000000

100.000000 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.69315e-29 (1.00)	4.69273e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.471526	0.471526	0.471568	0.471568
rad22	0.459365	0.930891	0.459405	0.930973
rad23	0.0475087	0.978400	0.0475129	0.978486
rad45	0.0124895	0.990889	0.0124906	0.990977
rad18	0.00691905	0.997808	0.00691967	0.997896
rad36	0.000777498	0.998586	0.000777567	0.998674
rad20	0.000552985	0.999139	0.000553034	0.999227
rad11	0.000397851	0.999537	0.000397886	0.999625
rad21	0.000339654	0.999876	0.000339685	0.999964
Benzyl+C2H2	8.91151e-05	0.999965	0.000000	0.999964
rad6	3.49220e-05	1.000000	3.49251e-05	0.999999
rad7	2.01259e-09	1.000000	2.01277e-09	0.999999
rad30	4.83853e-10	1.000000	4.83896e-10	0.999999
rad24	1.10443e-10	1.000000	1.10453e-10	0.999999
rad13	4.19714e-11	1.000000	4.19751e-11	0.999999
rad15	1.92149e-11	1.000000	1.92166e-11	0.999999
rad25	5.73244e-12	1.000000	5.73295e-12	0.999999
PAH9+H	4.62203e-13	1.000000	4.62245e-13	0.999999
rad38	4.19882e-13	1.000000	4.19919e-13	0.999999
rad35	3.89452e-13	1.000000	3.89487e-13	0.999999
rad3	3.85094e-13	1.000000	3.85128e-13	0.999999
rad4	1.97721e-13	1.000000	1.97738e-13	0.999999
rad33	4.85854e-14	1.000000	4.85897e-14	0.999999
PhCHCCH2+H	3.59873e-14	1.000000	3.59905e-14	0.999999
rad2	1.55533e-14	1.000000	1.55547e-14	0.999999
rad28	3.63004e-15	1.000000	3.63036e-15	0.999999
rad9	1.05241e-15	1.000000	1.05251e-15	0.999999
rad1	1.04139e-15	1.000000	1.04148e-15	0.999999
rad8	4.45632e-16	1.000000	4.45672e-16	0.999999
rad10	1.25401e-16	1.000000	1.25412e-16	0.999999
rad46	1.18669e-16	1.000000	1.18679e-16	0.999999
Ph+Allene	4.97953e-17	1.000000	4.97997e-17	0.999999
PhCCH+CH3	2.79503e-17	1.000000	2.79527e-17	0.999999
rad60syn	4.84701e-18	1.000000	4.84744e-18	0.999999
rad14	1.60124e-18	1.000000	1.60138e-18	0.999999
rad60anti	7.81688e-19	1.000000	7.81758e-19	0.999999
PhCH2CCH+H	6.37896e-20	1.000000	6.37953e-20	0.999999
PhCCCH3+H	6.02985e-20	1.000000	6.03039e-20	0.999999
rad26	3.21483e-20	1.000000	3.21512e-20	0.999999
rad27	1.16397e-20	1.000000	1.16407e-20	0.999999
Ph+MeAc	6.40979e-21	1.000000	6.41036e-21	0.999999
PAH7+H	1.24452e-21	1.000000	1.24463e-21	0.999999
rad31	2.05145e-22	1.000000	2.05163e-22	0.999999
PAH3+H	1.29122e-22	1.000000	1.29134e-22	0.999999
rad59	5.09695e-23	1.000000	5.09740e-23	0.999999
rad39	6.79210e-24	1.000000	6.79271e-24	0.999999
rad50	7.11757e-25	1.000000	7.11820e-25	0.999999
rad12	2.36959e-26	1.000000	2.36980e-26	0.999999
rad5	3.13596e-27	1.000000	3.13624e-27	0.999999
rad37	6.88707e-28	1.000000	6.88768e-28	0.999999
rad52	5.27417e-30	1.000000	5.27464e-30	0.999999
rad19syn	3.42358e-30	1.000000	3.42389e-30	0.999999

rad54	5.26020e-33	1.00000	5.26067e-33	0.999999
rad51	1.27804e-33	1.00000	1.27816e-33	0.999999
rad43	4.03152e-34	1.00000	4.03187e-34	0.999999
PAH10+CH3	6.92781e-35	1.00000	6.92842e-35	0.999999
rad62	4.20642e-35	1.00000	4.20680e-35	0.999999
rad65	7.16937e-37	1.00000	7.17001e-37	0.999999
rad70	1.62709e-38	1.00000	1.62724e-38	0.999999
PhcycC3H3_A+H	1.00228e-38	1.00000	1.00236e-38	0.999999
rad55	4.46511e-39	1.00000	4.46551e-39	0.999999
rad58	5.19101e-40	1.00000	5.19148e-40	0.999999
rad47	1.26176e-41	1.00000	1.26187e-41	0.999999
PAH1+H	2.29657e-42	1.00000	2.29678e-42	0.999999
rad34	2.62973e-43	1.00000	2.62996e-43	0.999999
rad42	4.12651e-44	1.00000	4.12688e-44	0.999999
rad41	3.55139e-44	1.00000	3.55171e-44	0.999999

100.000000 Pa, 190.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.16530e-28 (1.00)		3.16494e-28 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.486377	0.486377	0.486432	0.486432
rad22	0.443100	0.929477	0.443151	0.929583
rad23	0.0510657	0.980543	0.0510716	0.980655
rad45	0.0118774	0.992420	0.0118787	0.992533
rad18	0.00555504	0.997975	0.00555568	0.998089
rad36	0.000740713	0.998716	0.000740798	0.998830
rad20	0.000430749	0.999147	0.000430799	0.999261
rad11	0.000428081	0.999575	0.000428131	0.999689
rad21	0.000264535	0.999839	0.000264565	0.999953
Benzyl+C2H2	0.000114991	0.999954	0.000000	0.999953
rad6	4.64827e-05	1.00000	4.64881e-05	1.000000
rad7	3.22011e-09	1.00000	3.22048e-09	1.000000
rad30	8.04697e-10	1.00000	8.04789e-10	1.000000
rad24	1.05429e-10	1.00000	1.05441e-10	1.000000
rad13	5.52298e-11	1.00000	5.52362e-11	1.000000
rad15	3.83103e-11	1.00000	3.83147e-11	1.000000
rad25	1.15120e-11	1.00000	1.15133e-11	1.000000
PAH9+H	8.93734e-13	1.00000	8.93837e-13	1.000000
rad3	7.89087e-13	1.00000	7.89178e-13	1.000000
rad38	7.50089e-13	1.00000	7.50175e-13	1.000000
rad35	7.14592e-13	1.00000	7.14674e-13	1.000000
rad4	4.05955e-13	1.00000	4.06002e-13	1.000000
PhCHCCH2+H	1.20557e-13	1.00000	1.20571e-13	1.000000
rad33	6.42204e-14	1.00000	6.42278e-14	1.000000
rad2	4.65874e-14	1.00000	4.65927e-14	1.000000
rad28	9.70555e-15	1.00000	9.70667e-15	1.000000
rad9	4.06540e-15	1.00000	4.06586e-15	1.000000
rad1	3.14169e-15	1.00000	3.14205e-15	1.000000
rad8	2.15497e-15	1.00000	2.15522e-15	1.000000
rad10	4.96306e-16	1.00000	4.96363e-16	1.000000
rad46	3.44726e-16	1.00000	3.44765e-16	1.000000
Ph+Allene	2.77169e-16	1.00000	2.77201e-16	1.000000
PhCCH+CH3	1.27271e-16	1.00000	1.27285e-16	1.000000
rad60syn	2.33258e-17	1.00000	2.33285e-17	1.000000
rad14	5.40535e-18	1.00000	5.40597e-18	1.000000
rad60anti	4.14843e-18	1.00000	4.14891e-18	1.000000
PhCH2CCH+H	5.27469e-19	1.00000	5.27530e-19	1.000000
PhCCCH3+H	3.68097e-19	1.00000	3.68139e-19	1.000000
rad26	2.00051e-19	1.00000	2.00074e-19	1.000000
Ph+MeAc	4.73452e-20	1.00000	4.73507e-20	1.000000
rad27	4.00222e-20	1.00000	4.00268e-20	1.000000
PAH7+H	8.87103e-21	1.00000	8.87205e-21	1.000000
PAH3+H	1.29678e-21	1.00000	1.29693e-21	1.000000
rad59	4.96906e-22	1.00000	4.96963e-22	1.000000
rad31	4.51547e-22	1.00000	4.51599e-22	1.000000
rad39	5.05212e-23	1.00000	5.05270e-23	1.000000
rad50	7.19269e-24	1.00000	7.19352e-24	1.000000
rad12	2.75149e-25	1.00000	2.75181e-25	1.000000
rad5	4.00815e-26	1.00000	4.00861e-26	1.000000
rad37	1.01196e-26	1.00000	1.01208e-26	1.000000
rad52	1.21254e-28	1.00000	1.21268e-28	1.000000
rad19syn	1.09022e-28	1.00000	1.09035e-28	1.000000
rad54	7.27886e-31	1.00000	7.27970e-31	1.000000
rad51	1.72054e-31	1.00000	1.72074e-31	1.000000
rad43	2.43769e-32	1.00000	2.43797e-32	1.000000
rad62	6.28145e-33	1.00000	6.28217e-33	1.000000

PAH10+CH3	4.62890e-33	1.00000	4.62943e-33	1.000000
rad65	8.84434e-35	1.00000	8.84536e-35	1.000000
rad70	6.08873e-36	1.00000	6.08943e-36	1.000000
PhcycC3H3_A+H	2.92825e-36	1.00000	2.92858e-36	1.000000
rad55	1.29701e-36	1.00000	1.29716e-36	1.000000
rad58	1.16958e-37	1.00000	1.16971e-37	1.000000
rad47	1.83594e-39	1.00000	1.83615e-39	1.000000
PAH1+H	5.49762e-40	1.00000	5.49825e-40	1.000000
rad34	7.22063e-41	1.00000	7.22146e-41	1.000000
rad42	6.50950e-42	1.00000	6.51024e-42	1.000000
rad41	5.69356e-42	1.00000	5.69421e-42	1.000000

100.000000 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76089e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.501696	0.501696	0.501771	0.501771
rad22	0.425894	0.927590	0.425957	0.927728
rad23	0.0547299	0.982320	0.0547380	0.982466
rad45	0.0113039	0.993624	0.0113056	0.993772
rad18	0.00445645	0.998080	0.00445711	0.998229
rad36	0.000706470	0.998787	0.000706574	0.998935
rad11	0.000459364	0.999246	0.000459431	0.999395
rad20	0.000337074	0.999583	0.000337124	0.999732
rad21	0.000206987	0.999790	0.000207018	0.999939
Benzyl+C2H2	0.000147596	0.999938	0.000000	0.999939
rad6	6.16459e-05	0.999999	6.16550e-05	1.000000
rad7	5.05821e-09	0.999999	5.05896e-09	1.000000
rad30	1.29032e-09	0.999999	1.29051e-09	1.000000
rad24	1.00798e-10	0.999999	1.00812e-10	1.000000
rad13	7.24657e-11	0.999999	7.24764e-11	1.000000
rad15	7.21013e-11	0.999999	7.21119e-11	1.000000
rad25	2.15593e-11	0.999999	2.15625e-11	1.000000
PAH9+H	1.70021e-12	0.999999	1.70046e-12	1.000000
rad3	1.57800e-12	0.999999	1.57823e-12	1.000000
rad38	1.31421e-12	0.999999	1.31441e-12	1.000000
rad35	1.29496e-12	0.999999	1.29516e-12	1.000000
rad4	8.13595e-13	0.999999	8.13715e-13	1.000000
PhCHCCH2+H	3.64426e-13	0.999999	3.64480e-13	1.000000
rad2	1.32558e-13	0.999999	1.32577e-13	1.000000
rad33	8.46325e-14	0.999999	8.46450e-14	1.000000
rad28	2.47356e-14	0.999999	2.47393e-14	1.000000
rad9	1.38922e-14	0.999999	1.38942e-14	1.000000
rad1	9.00893e-15	0.999999	9.01025e-15	1.000000
rad8	8.93276e-15	0.999999	8.93408e-15	1.000000
rad10	1.81176e-15	0.999999	1.81203e-15	1.000000
Ph+Allene	1.31304e-15	0.999999	1.31324e-15	1.000000
rad46	9.27078e-16	0.999999	9.27215e-16	1.000000
PhCCH+CH3	5.23876e-16	0.999999	5.23953e-16	1.000000
rad60syn	9.61399e-17	0.999999	9.61541e-17	1.000000
rad60anti	1.86485e-17	0.999999	1.86513e-17	1.000000
rad14	1.65283e-17	0.999999	1.65307e-17	1.000000
PhCH2CCH+H	3.56967e-18	0.999999	3.57020e-18	1.000000
PhCCCH3+H	2.00688e-18	0.999999	2.00717e-18	1.000000
rad26	1.10716e-18	0.999999	1.10733e-18	1.000000
Ph+MeAc	3.01274e-19	0.999999	3.01318e-19	1.000000
rad27	1.26408e-19	0.999999	1.26427e-19	1.000000
PAH7+H	5.27621e-20	0.999999	5.27699e-20	1.000000
PAH3+H	1.03565e-20	0.999999	1.03581e-20	1.000000
rad59	3.85754e-21	0.999999	3.85811e-21	1.000000
rad31	9.74551e-22	0.999999	9.74695e-22	1.000000
rad39	3.30005e-22	0.999999	3.30054e-22	1.000000
rad50	5.87267e-23	0.999999	5.87354e-23	1.000000
rad12	2.70850e-24	0.999999	2.70890e-24	1.000000
rad5	4.14923e-25	0.999999	4.14984e-25	1.000000
rad37	1.21204e-25	0.999999	1.21222e-25	1.000000
rad19syn	1.94604e-27	0.999999	1.94633e-27	1.000000
rad52	1.79923e-27	0.999999	1.79949e-27	1.000000
rad54	2.23659e-29	0.999999	2.23692e-29	1.000000
rad51	7.66388e-30	0.999999	7.66501e-30	1.000000
rad43	7.70362e-31	0.999999	7.70476e-31	1.000000
rad62	3.56759e-31	0.999999	3.56812e-31	1.000000
PAH10+CH3	1.84726e-31	0.999999	1.84753e-31	1.000000
rad65	1.16158e-32	0.999999	1.16175e-32	1.000000
rad70	4.19518e-33	0.999999	4.19580e-33	1.000000
PhcycC3H3_A+H	8.30686e-34	0.999999	8.30809e-34	1.000000

rad55	3.65992e-34	0.999999	3.66046e-34	1.00000
rad58	7.67750e-35	0.999999	7.67864e-35	1.00000
rad47	2.05001e-37	0.999999	2.05032e-37	1.00000
PAH1+H	1.34509e-37	0.999999	1.34529e-37	1.00000
rad34	2.06084e-38	0.999999	2.06114e-38	1.00000
rad42	7.74168e-40	0.999999	7.74283e-40	1.00000
rad41	6.74342e-40	0.999999	6.74442e-40	1.00000

100.000000 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.30956e-27 (1.00)	8.30799e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.517508	0.517508	0.517605	0.517605
rad22	0.407794	0.925302	0.407871	0.925476
rad23	0.0584902	0.983792	0.0585012	0.983977
rad45	0.0107726	0.994565	0.0107746	0.994752
rad18	0.00357224	0.998137	0.00357292	0.998325
rad36	0.000674987	0.998812	0.000675114	0.999000
rad11	0.000491218	0.999303	0.000491310	0.999491
rad20	0.000264859	0.999568	0.000264909	0.999756
Benzyl+C2H2	0.000188436	0.999757	0.000000	0.999756
rad21	0.000162636	0.999919	0.000162666	0.999919
rad6	8.13252e-05	1.00000	8.13406e-05	1.00000
rad7	7.78452e-09	1.00000	7.78599e-09	1.00000
rad30	2.00573e-09	1.00000	2.00611e-09	1.00000
rad15	1.29201e-10	1.00000	1.29226e-10	1.00000
rad24	9.65734e-11	1.00000	9.65916e-11	1.00000
rad13	9.46442e-11	1.00000	9.46621e-11	1.00000
rad25	3.79155e-11	1.00000	3.79226e-11	1.00000
PAH9+H	3.18139e-12	1.00000	3.18199e-12	1.00000
rad3	3.07008e-12	1.00000	3.07065e-12	1.00000
rad35	2.31588e-12	1.00000	2.31632e-12	1.00000
rad38	2.26404e-12	1.00000	2.26447e-12	1.00000
rad4	1.58666e-12	1.00000	1.58696e-12	1.00000
PhCHCCH2+H	1.00760e-12	1.00000	1.00779e-12	1.00000
rad2	3.58038e-13	1.00000	3.58106e-13	1.00000
rad33	1.11015e-13	1.00000	1.11036e-13	1.00000
rad28	6.02865e-14	1.00000	6.02979e-14	1.00000
rad9	4.27140e-14	1.00000	4.27220e-14	1.00000
rad8	3.24608e-14	1.00000	3.24669e-14	1.00000
rad1	2.45389e-14	1.00000	2.45435e-14	1.00000
rad10	6.11315e-15	1.00000	6.11430e-15	1.00000
Ph+Allene	5.41453e-15	1.00000	5.41555e-15	1.00000
rad46	2.33524e-15	1.00000	2.33568e-15	1.00000
PhCCH+CH3	1.96716e-15	1.00000	1.96753e-15	1.00000
rad60syn	3.47149e-16	1.00000	3.47214e-16	1.00000
rad60anti	7.27490e-17	1.00000	7.27628e-17	1.00000
rad14	4.61491e-17	1.00000	4.61578e-17	1.00000
PhCH2CCH+H	2.03431e-17	1.00000	2.03470e-17	1.00000
PhCCCH3+H	9.87259e-18	1.00000	9.87445e-18	1.00000
rad26	5.49709e-18	1.00000	5.49813e-18	1.00000
Ph+MeAc	1.68420e-18	1.00000	1.68452e-18	1.00000
rad27	3.69445e-19	1.00000	3.69515e-19	1.00000
PAH7+H	2.68737e-19	1.00000	2.68788e-19	1.00000
PAH3+H	6.80408e-20	1.00000	6.80536e-20	1.00000
rad59	2.46605e-20	1.00000	2.46651e-20	1.00000
rad31	2.05717e-21	1.00000	2.05756e-21	1.00000
rad39	1.92400e-21	1.00000	1.92436e-21	1.00000
rad50	3.99521e-22	1.00000	3.99596e-22	1.00000
rad12	2.29772e-23	1.00000	2.29815e-23	1.00000
rad5	3.58452e-24	1.00000	3.58519e-24	1.00000
rad37	1.21408e-24	1.00000	1.21431e-24	1.00000
rad19syn	2.48201e-26	1.00000	2.48247e-26	1.00000
rad52	2.01096e-26	1.00000	2.01134e-26	1.00000
rad54	3.79681e-28	1.00000	3.79753e-28	1.00000
rad51	1.48855e-28	1.00000	1.48883e-28	1.00000
rad43	1.47793e-29	1.00000	1.47821e-29	1.00000
rad62	8.17271e-30	1.00000	8.17425e-30	1.00000
rad70	5.13748e-30	1.00000	5.13845e-30	1.00000
PAH10+CH3	4.59317e-30	1.00000	4.59404e-30	1.00000
rad58	1.85854e-30	1.00000	1.85889e-30	1.00000
rad65	4.82208e-31	1.00000	4.82299e-31	1.00000
PhcycC3H3_A+H	1.51659e-31	1.00000	1.51687e-31	1.00000
rad55	5.71662e-32	1.00000	5.71769e-32	1.00000
PAH1+H	3.17729e-35	1.00000	3.17789e-35	1.00000
rad47	1.87792e-35	1.00000	1.87827e-35	1.00000

rad34	7.30824e-36	1.00000	7.30962e-36	1.00000
rad42	7.31691e-38	1.00000	7.31829e-38	1.00000
rad41	5.89631e-38	1.00000	5.89742e-38	1.00000

100.000000 Pa, 220.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.40057e-26 (1.00)		3.39976e-26 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.533797	0.533797	0.533925	0.533925
rad22	0.388873	0.922670	0.388966	0.922891
rad23	0.0623306	0.985001	0.0623455	0.985236
rad45	0.0102862	0.995287	0.0102887	0.995525
rad18	0.00286116	0.998148	0.00286184	0.998387
rad36	0.000646445	0.998794	0.000646600	0.999034
rad11	0.000523044	0.999317	0.000523170	0.999557
Benzyl+C2H2	0.000239286	0.999557	0.00000	0.999557
rad20	0.000208897	0.999766	0.000208947	0.999766
rad21	0.000128274	0.999894	0.000128305	0.999894
rad6	0.000106562	1.00000	0.000106587	1.00000
rad7	1.17217e-08	1.00000	1.17245e-08	1.00000
rad30	3.03557e-09	1.00000	3.03629e-09	1.00000
rad15	2.21980e-10	1.00000	2.22033e-10	1.00000
rad13	1.22853e-10	1.00000	1.22882e-10	1.00000
rad24	9.27766e-11	1.00000	9.27988e-11	1.00000
rad25	6.29940e-11	1.00000	6.30090e-11	1.00000
PAH9+H	5.85444e-12	1.00000	5.85585e-12	1.00000
rad3	5.79833e-12	1.00000	5.79972e-12	1.00000
rad35	4.08490e-12	1.00000	4.08588e-12	1.00000
rad38	3.84280e-12	1.00000	3.84372e-12	1.00000
rad4	3.00445e-12	1.00000	3.00517e-12	1.00000
PhCHCCH2+H	2.57683e-12	1.00000	2.57745e-12	1.00000
rad2	9.18395e-13	1.00000	9.18615e-13	1.00000
rad33	1.44728e-13	1.00000	1.44762e-13	1.00000
rad28	1.40938e-13	1.00000	1.40972e-13	1.00000
rad9	1.19839e-13	1.00000	1.19867e-13	1.00000
rad8	1.05324e-13	1.00000	1.05349e-13	1.00000
rad1	6.35214e-14	1.00000	6.35366e-14	1.00000
Ph+Allene	1.97989e-14	1.00000	1.98036e-14	1.00000
rad10	1.91256e-14	1.00000	1.91302e-14	1.00000
PhCCH+CH3	6.79433e-15	1.00000	6.79595e-15	1.00000
rad46	5.56186e-15	1.00000	5.56319e-15	1.00000
rad60syn	1.11870e-15	1.00000	1.11897e-15	1.00000
rad60anti	2.51206e-16	1.00000	2.51266e-16	1.00000
rad14	1.18557e-16	1.00000	1.18585e-16	1.00000
PhCH2CCH+H	9.99261e-17	1.00000	9.99501e-17	1.00000
PhCCCH3+H	4.42350e-17	1.00000	4.42456e-17	1.00000
rad26	2.46962e-17	1.00000	2.47021e-17	1.00000
Ph+MeAc	8.40858e-18	1.00000	8.41060e-18	1.00000
PAH7+H	1.19756e-18	1.00000	1.19784e-18	1.00000
rad27	1.00580e-18	1.00000	1.00604e-18	1.00000
PAH3+H	3.77879e-19	1.00000	3.77970e-19	1.00000
rad59	1.33387e-19	1.00000	1.33419e-19	1.00000
rad39	1.01492e-20	1.00000	1.01516e-20	1.00000
rad31	4.24045e-21	1.00000	4.24146e-21	1.00000
rad50	2.32188e-21	1.00000	2.32244e-21	1.00000
rad12	1.70666e-22	1.00000	1.70706e-22	1.00000
rad5	2.64925e-23	1.00000	2.64988e-23	1.00000
rad37	1.04188e-23	1.00000	1.04213e-23	1.00000
rad19syn	2.51115e-25	1.00000	2.51175e-25	1.00000
rad52	1.81328e-25	1.00000	1.81372e-25	1.00000
rad54	4.69682e-27	1.00000	4.69795e-27	1.00000
rad51	1.96350e-27	1.00000	1.96397e-27	1.00000
rad43	2.04431e-28	1.00000	2.04480e-28	1.00000
rad62	1.19880e-28	1.00000	1.19909e-28	1.00000
rad70	1.13455e-28	1.00000	1.13482e-28	1.00000
PAH10+CH3	7.80971e-29	1.00000	7.81157e-29	1.00000
rad58	5.51668e-29	1.00000	5.51800e-29	1.00000
rad65	8.63047e-30	1.00000	8.63254e-30	1.00000
PhcycC3H3_A+H	4.54507e-30	1.00000	4.54616e-30	1.00000
rad55	1.50512e-30	1.00000	1.50548e-30	1.00000
PAH1+H	2.63783e-33	1.00000	2.63846e-33	1.00000
rad34	1.08857e-33	1.00000	1.08883e-33	1.00000
rad47	9.42068e-34	1.00000	9.42294e-34	1.00000
rad42	3.88874e-36	1.00000	3.88968e-36	1.00000
rad41	2.75988e-36	1.00000	2.76054e-36	1.00000

100.000000 Pa, 230.000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 1.22972e-25 (1.00) 1.22934e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.550519	0.550519	0.550685	0.550685
rad22	0.369231	0.919750	0.369343	0.920028
rad23	0.0662304	0.985980	0.0662504	0.986278
rad45	0.00984676	0.995827	0.00984974	0.996128
rad18	0.00228983	0.998117	0.00229052	0.998419
rad36	0.000620974	0.998738	0.000621162	0.999040
rad11	0.000554144	0.999292	0.000554311	0.999594
Benzyl+C2H2	0.000302224	0.999594	0.000000	0.999594
rad20	0.000165330	0.999760	0.000165380	0.999760
rad6	0.000138506	0.999898	0.000138548	0.999898
rad21	0.000101528	1.000000	0.000101559	1.000000
rad7	1.72571e-08	1.000000	1.72623e-08	1.000000
rad30	4.48846e-09	1.000000	4.48982e-09	1.000000
rad15	3.67740e-10	1.000000	3.67851e-10	1.000000
rad13	1.58280e-10	1.000000	1.58327e-10	1.000000
rad25	9.93931e-11	1.000000	9.94231e-11	1.000000
rad24	8.94231e-11	1.000000	8.94501e-11	1.000000
rad3	1.06167e-11	1.000000	1.06199e-11	1.000000
PAH9+H	1.05946e-11	1.000000	1.05978e-11	1.000000
rad35	7.10364e-12	1.000000	7.10579e-12	1.000000
rad38	6.43659e-12	1.000000	6.43853e-12	1.000000
PhCHCCH2+H	6.15273e-12	1.000000	6.15459e-12	1.000000
rad4	5.51665e-12	1.000000	5.51832e-12	1.000000
rad2	2.24004e-12	1.000000	2.24071e-12	1.000000
rad28	3.16952e-13	1.000000	3.17048e-13	1.000000
rad9	3.10397e-13	1.000000	3.10490e-13	1.000000
rad8	3.09783e-13	1.000000	3.09877e-13	1.000000
rad33	1.87275e-13	1.000000	1.87332e-13	1.000000
rad1	1.56472e-13	1.000000	1.56519e-13	1.000000
Ph+Allene	6.51937e-14	1.000000	6.52134e-14	1.000000
rad10	5.56948e-14	1.000000	5.57116e-14	1.000000
PhCCH+CH3	2.17483e-14	1.000000	2.17549e-14	1.000000
rad46	1.26208e-14	1.000000	1.26246e-14	1.000000
rad60syn	3.26682e-15	1.000000	3.26781e-15	1.000000
rad60anti	7.80453e-16	1.000000	7.80689e-16	1.000000
PhCH2CCH+H	4.31269e-16	1.000000	4.31399e-16	1.000000
rad14	2.82222e-16	1.000000	2.82307e-16	1.000000
PhCCCH3+H	1.82050e-16	1.000000	1.82105e-16	1.000000
rad26	1.01215e-16	1.000000	1.01246e-16	1.000000
Ph+MeAc	3.80085e-17	1.000000	3.80200e-17	1.000000
PAH7+H	4.75321e-18	1.000000	4.75465e-18	1.000000
rad27	2.56609e-18	1.000000	2.56687e-18	1.000000
PAH3+H	1.81394e-18	1.000000	1.81449e-18	1.000000
rad59	6.24149e-19	1.000000	6.24338e-19	1.000000
rad39	4.89827e-20	1.000000	4.89975e-20	1.000000
rad50	1.17639e-20	1.000000	1.17674e-20	1.000000
rad31	8.52919e-21	1.000000	8.53176e-21	1.000000
rad12	1.12402e-21	1.000000	1.12436e-21	1.000000
rad5	1.70667e-22	1.000000	1.70719e-22	1.000000
rad37	7.80242e-23	1.000000	7.80478e-23	1.000000
rad19syn	2.11135e-24	1.000000	2.11199e-24	1.000000
rad52	1.36244e-24	1.000000	1.36285e-24	1.000000
rad54	4.73971e-26	1.000000	4.74114e-26	1.000000
rad51	2.06344e-26	1.000000	2.06406e-26	1.000000
rad43	2.30400e-27	1.000000	2.30470e-27	1.000000
rad70	1.70083e-27	1.000000	1.70134e-27	1.000000
rad62	1.40570e-27	1.000000	1.40613e-27	1.000000
PAH10+CH3	1.11303e-27	1.000000	1.11337e-27	1.000000
rad58	1.00955e-27	1.000000	1.00986e-27	1.000000
rad65	1.16693e-28	1.000000	1.16728e-28	1.000000
PhcycC3H3_A+H	1.00117e-28	1.000000	1.00148e-28	1.000000
rad55	2.92529e-29	1.000000	2.92617e-29	1.000000
rad34	1.51422e-30	1.000000	1.51468e-30	1.000000
PAH1+H	1.97912e-31	1.000000	1.97972e-31	1.000000
rad47	1.32529e-32	1.000000	1.32570e-32	1.000000
rad42	5.92199e-34	1.000000	5.92378e-34	1.000000
rad41	1.89977e-34	1.000000	1.90034e-34	1.000000

100.000000 Pa, 240.000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 3.99091e-25 (1.00) 3.98939e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.567600	0.567600	0.567815	0.567815
rad22	0.348997	0.916597	0.349130	0.916945
rad23	0.0701647	0.986762	0.0701914	0.987136
rad45	0.00945515	0.996217	0.00945874	0.996595
rad18	0.00183123	0.998048	0.00183192	0.998427
rad36	0.000598647	0.998647	0.000598874	0.999026
rad11	0.000583740	0.999230	0.000583962	0.999610
Benzyl+C2H2	0.000379655	0.999610	0.00000	0.999610
rad6	0.000178389	0.999789	0.000178457	0.999788
rad20	0.000131274	0.999920	0.000131324	0.999920
rad21	8.06243e-05	1.00000	8.06549e-05	1.00000
rad7	2.48364e-08	1.00000	2.48459e-08	1.00000
rad30	6.50211e-09	1.00000	6.50458e-09	1.00000
rad15	5.90146e-10	1.00000	5.90370e-10	1.00000
rad13	2.02179e-10	1.00000	2.02256e-10	1.00000
rad25	1.49622e-10	1.00000	1.49679e-10	1.00000
rad24	8.65227e-11	1.00000	8.65555e-11	1.00000
PAH9+H	1.88554e-11	1.00000	1.88626e-11	1.00000
rad3	1.88336e-11	1.00000	1.88407e-11	1.00000
PhCHCCH2+H	1.38245e-11	1.00000	1.38297e-11	1.00000
rad35	1.21762e-11	1.00000	1.21808e-11	1.00000
rad38	1.06525e-11	1.00000	1.06565e-11	1.00000
rad4	9.81636e-12	1.00000	9.82009e-12	1.00000
rad2	5.20483e-12	1.00000	5.20680e-12	1.00000
rad8	8.36391e-13	1.00000	8.36708e-13	1.00000
rad9	7.49507e-13	1.00000	7.49792e-13	1.00000
rad28	6.87552e-13	1.00000	6.87813e-13	1.00000
rad1	3.67473e-13	1.00000	3.67613e-13	1.00000
rad33	2.40277e-13	1.00000	2.40368e-13	1.00000
Ph+Allene	1.95817e-13	1.00000	1.95892e-13	1.00000
rad10	1.51590e-13	1.00000	1.51647e-13	1.00000
PhCCH+CH3	6.49639e-14	1.00000	6.49886e-14	1.00000
rad46	2.74538e-14	1.00000	2.74642e-14	1.00000
rad60syn	8.75502e-15	1.00000	8.75835e-15	1.00000
rad60anti	2.21146e-15	1.00000	2.21230e-15	1.00000
PhCH2CCH+H	1.66180e-15	1.00000	1.66243e-15	1.00000
PhCCCH3+H	6.93371e-16	1.00000	6.93635e-16	1.00000
rad14	6.26601e-16	1.00000	6.26839e-16	1.00000
rad26	3.81312e-16	1.00000	3.81457e-16	1.00000
Ph+MeAc	1.57322e-16	1.00000	1.57382e-16	1.00000
PAH7+H	1.70594e-17	1.00000	1.70659e-17	1.00000
PAH3+H	7.66687e-18	1.00000	7.66978e-18	1.00000
rad27	6.16855e-18	1.00000	6.17090e-18	1.00000
rad59	2.57368e-18	1.00000	2.57466e-18	1.00000
rad39	2.18209e-19	1.00000	2.18292e-19	1.00000
rad50	5.28451e-20	1.00000	5.28652e-20	1.00000
rad31	1.67394e-20	1.00000	1.67457e-20	1.00000
rad12	6.62251e-21	1.00000	6.62503e-21	1.00000
rad5	9.72073e-22	1.00000	9.72443e-22	1.00000
rad37	5.14596e-22	1.00000	5.14792e-22	1.00000
rad19syn	1.49994e-23	1.00000	1.50051e-23	1.00000
rad52	8.71618e-24	1.00000	8.71949e-24	1.00000
rad54	3.91040e-25	1.00000	3.91188e-25	1.00000
rad51	1.74089e-25	1.00000	1.74155e-25	1.00000
rad43	2.09183e-26	1.00000	2.09263e-26	1.00000
rad70	1.73713e-26	1.00000	1.73779e-26	1.00000
rad62	1.29490e-26	1.00000	1.29539e-26	1.00000
PAH10+CH3	1.21888e-26	1.00000	1.21935e-26	1.00000
rad58	1.12363e-26	1.00000	1.12406e-26	1.00000
PhcycC3H3_A+H	1.32034e-27	1.00000	1.32085e-27	1.00000
rad65	1.15585e-27	1.00000	1.15629e-27	1.00000
rad55	3.59905e-28	1.00000	3.60042e-28	1.00000
rad34	2.97599e-29	1.00000	2.97712e-29	1.00000
PAH1+H	4.83487e-30	1.00000	4.83671e-30	1.00000
rad47	1.26599e-31	1.00000	1.26647e-31	1.00000
rad42	3.00689e-32	1.00000	3.00803e-32	1.00000
rad41	7.42611e-33	1.00000	7.42893e-33	1.00000

100.000000 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17708e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.584940	0.584940	0.585218	0.585218
rad22	0.328319	0.913259	0.328475	0.913693
rad23	0.0741044	0.987363	0.0741396	0.987833
rad45	0.00911126	0.996475	0.00911558	0.996948
rad18	0.00146348	0.997938	0.00146418	0.998412
rad11	0.000611021	0.998549	0.000611311	0.999024
rad36	0.000579475	0.999129	0.000579750	0.999603
Benzyl+C2H2	0.000474351	0.999603	0.00000	0.999603
rad6	0.000227482	0.999830	0.000227590	0.999831
rad20	0.000104555	0.999935	0.000104605	0.999936
rad21	6.42252e-05	0.999999	6.42557e-05	1.000000
rad7	3.49510e-08	0.999999	3.49676e-08	1.000000
rad30	9.24897e-09	0.999999	9.25336e-09	1.000000
rad15	2.0927e-10	0.999999	9.21364e-10	1.000000
rad13	2.55833e-10	0.999999	2.55954e-10	1.000000
rad25	2.15775e-10	0.999999	2.15877e-10	1.000000
rad24	8.40783e-11	0.999999	8.41182e-11	1.000000
PAH9+H	3.30054e-11	0.999999	3.30210e-11	1.000000
rad3	3.23679e-11	0.999999	3.23832e-11	1.000000
PhCHCCH2+H	2.94260e-11	0.999999	2.94400e-11	1.000000
rad35	2.05693e-11	0.999999	2.05790e-11	1.000000
rad38	1.74358e-11	0.999999	1.74440e-11	1.000000
rad4	1.69268e-11	0.999999	1.69348e-11	1.000000
rad2	1.15465e-11	0.999999	1.15519e-11	1.000000
rad8	2.09483e-12	0.999999	2.09582e-12	1.000000
rad9	1.70120e-12	0.999999	1.70201e-12	1.000000
rad28	1.44239e-12	0.999999	1.44308e-12	1.000000
rad1	8.24658e-13	0.999999	8.25050e-13	1.000000
Ph+Allene	5.42366e-13	0.999999	5.42623e-13	1.000000
rad10	3.87296e-13	0.999999	3.87479e-13	1.000000
rad33	3.05418e-13	0.999999	3.05563e-13	1.000000
PhCCH+CH3	1.82235e-13	0.999999	1.82322e-13	1.000000
rad46	5.75317e-14	0.999999	5.75590e-14	1.000000
rad60syn	2.17632e-14	0.999999	2.17735e-14	1.000000
PhCH2CCH+H	5.79444e-15	0.999999	5.79719e-15	1.000000
rad60anti	5.78064e-15	0.999999	5.78339e-15	1.000000
PhCCCH3+H	2.46023e-15	0.999999	2.46140e-15	1.000000
rad26	1.32968e-15	0.999999	1.33031e-15	1.000000
rad14	1.30535e-15	0.999999	1.30597e-15	1.000000
Ph+MeAc	6.01911e-16	0.999999	6.02197e-16	1.000000
PAH7+H	5.60880e-17	0.999999	5.61146e-17	1.000000
PAH3+H	2.89791e-17	0.999999	2.89928e-17	1.000000
rad27	1.40405e-17	0.999999	1.40472e-17	1.000000
rad59	9.49816e-18	0.999999	9.50267e-18	1.000000
rad39	9.03941e-19	0.999999	9.04370e-19	1.000000
rad50	2.13491e-19	0.999999	2.13592e-19	1.000000
rad12	3.52176e-20	0.999999	3.52343e-20	1.000000
rad31	3.20732e-20	0.999999	3.20884e-20	1.000000
rad5	4.95815e-21	0.999999	4.96051e-21	1.000000
rad37	3.02315e-21	0.999999	3.02459e-21	1.000000
rad19syn	9.20789e-23	0.999999	9.21226e-23	1.000000
rad52	4.84602e-23	0.999999	4.84832e-23	1.000000
rad54	2.72223e-24	0.999999	2.72352e-24	1.000000
rad51	1.23083e-24	0.999999	1.23142e-24	1.000000
rad43	1.58726e-25	0.999999	1.58801e-25	1.000000
rad70	1.39184e-25	0.999999	1.39250e-25	1.000000
PAH10+CH3	1.05794e-25	0.999999	1.05845e-25	1.000000
rad62	9.83053e-26	0.999999	9.83520e-26	1.000000
rad58	9.39569e-26	0.999999	9.40014e-26	1.000000
PhcycC3H3_A+H	1.19717e-26	0.999999	1.19773e-26	1.000000
rad65	9.16785e-27	0.999999	9.17220e-27	1.000000
rad55	3.18262e-27	0.999999	3.18413e-27	1.000000
rad34	2.89924e-28	0.999999	2.90061e-28	1.000000
PAH1+H	5.09315e-29	0.999999	5.09556e-29	1.000000
rad47	9.94750e-31	0.999999	9.95222e-31	1.000000
rad42	3.29225e-31	0.999999	3.29382e-31	1.000000
rad41	8.34712e-32	0.999999	8.35108e-32	1.000000

100.000000 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19264e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.602423	0.602423	0.602779	0.602779
rad22	0.307367	0.909790	0.307548	0.910327
rad23	0.0780169	0.987807	0.0780629	0.988390
rad45	0.00881391	0.996621	0.00881911	0.997209

rad18	0.00116890	0.997790	0.00116958	0.998379
rad11	0.000635180	0.998425	0.000635554	0.999014
Benzyl+C2H2	0.000589480	0.999014	0.000000	0.999014
rad36	0.000563409	0.999578	0.000563741	0.999578
rad6	0.000287056	0.999865	0.000287225	0.999865
rad20	8.35221e-05	0.999948	8.35713e-05	0.999949
rad21	5.13166e-05	1.000000	5.13469e-05	1.000000
rad7	4.81196e-08	1.000000	4.81480e-08	1.000000
rad30	1.29425e-08	1.000000	1.29502e-08	1.000000
rad15	1.40188e-09	1.000000	1.40271e-09	1.000000
rad13	3.20501e-10	1.000000	3.20690e-10	1.000000
rad25	2.99202e-10	1.000000	2.99379e-10	1.000000
rad24	8.20855e-11	1.000000	8.21339e-11	1.000000
PhCHCCH2+H	5.96758e-11	1.000000	5.97110e-11	1.000000
PAH9+H	5.68341e-11	1.000000	5.68676e-11	1.000000
rad3	5.39151e-11	1.000000	5.39469e-11	1.000000
rad35	3.42453e-11	1.000000	3.42655e-11	1.000000
rad4	2.82965e-11	1.000000	2.83132e-11	1.000000
rad38	2.82431e-11	1.000000	2.82598e-11	1.000000
rad2	2.45156e-11	1.000000	2.45300e-11	1.000000
rad8	4.91051e-12	1.000000	4.91341e-12	1.000000
rad9	3.65507e-12	1.000000	3.65723e-12	1.000000
rad28	2.93343e-12	1.000000	2.93516e-12	1.000000
rad1	1.77280e-12	1.000000	1.77385e-12	1.000000
Ph+Allene	1.39807e-12	1.000000	1.39890e-12	1.000000
rad10	9.32780e-13	1.000000	9.33331e-13	1.000000
PhCCH+CH3	4.82858e-13	1.000000	4.83143e-13	1.000000
rad33	3.84406e-13	1.000000	3.84632e-13	1.000000
rad46	1.16607e-13	1.000000	1.16676e-13	1.000000
rad60syn	5.06299e-14	1.000000	5.06598e-14	1.000000
PhCH2CCH+H	1.84923e-14	1.000000	1.85032e-14	1.000000
rad60anti	1.40738e-14	1.000000	1.40821e-14	1.000000
PhCCCH3+H	8.17956e-15	1.000000	8.18438e-15	1.000000
rad26	4.31869e-15	1.000000	4.32123e-15	1.000000
rad14	2.56549e-15	1.000000	2.56700e-15	1.000000
Ph+MeAc	2.14515e-15	1.000000	2.14642e-15	1.000000
PAH7+H	1.70856e-16	1.000000	1.70957e-16	1.000000
PAH3+H	9.92457e-17	1.000000	9.93042e-17	1.000000
rad59	3.17849e-17	1.000000	3.18036e-17	1.000000
rad27	3.03958e-17	1.000000	3.04137e-17	1.000000
rad39	3.50359e-18	1.000000	3.50565e-18	1.000000
rad50	7.85014e-19	1.000000	7.85477e-19	1.000000
rad12	1.70337e-19	1.000000	1.70437e-19	1.000000
rad31	6.00554e-20	1.000000	6.00908e-20	1.000000
rad5	2.28888e-20	1.000000	2.29023e-20	1.000000
rad37	1.59768e-20	1.000000	1.59862e-20	1.000000
rad19syn	4.97722e-22	1.000000	4.98015e-22	1.000000
rad52	2.38053e-22	1.000000	2.38193e-22	1.000000
rad54	1.64616e-23	1.000000	1.64713e-23	1.000000
rad51	7.51214e-24	1.000000	7.51657e-24	1.000000
rad43	1.03969e-24	1.000000	1.04031e-24	1.000000
rad70	9.41174e-25	1.000000	9.41729e-25	1.000000
PAH10+CH3	7.81766e-25	1.000000	7.82227e-25	1.000000
rad58	6.58115e-25	1.000000	6.58503e-25	1.000000
rad62	6.41212e-25	1.000000	6.41590e-25	1.000000
PhcycC3H3_A+H	9.02495e-26	1.000000	9.03027e-26	1.000000
rad65	6.17787e-26	1.000000	6.18152e-26	1.000000
rad55	2.35174e-26	1.000000	2.35312e-26	1.000000
rad34	2.28519e-27	1.000000	2.28654e-27	1.000000
PAH1+H	4.32753e-28	1.000000	4.33008e-28	1.000000
rad47	6.59236e-30	1.000000	6.59625e-30	1.000000
rad42	2.86306e-30	1.000000	2.86474e-30	1.000000
rad41	7.49805e-31	1.000000	7.50248e-31	1.000000

100.000000 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.03555e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.619918	0.619918	0.620370	0.620370
rad22	0.286320	0.906238	0.286529	0.906899
rad23	0.0818666	0.988105	0.0819263	0.988825
rad45	0.00856096	0.996666	0.00856720	0.997392
rad18	0.000933137	0.997599	0.000933818	0.998326
Benzyl+C2H2	0.000728634	0.998327	0.000000	0.998326
rad11	0.000655459	0.998983	0.000655937	0.998982
rad36	0.000550341	0.999533	0.000550742	0.999533

rad6	0.000358329	0.999891	0.000358590	0.999892
rad20	6.69145e-05	0.999958	6.69633e-05	0.999959
rad21	4.11240e-05	0.999999	4.11540e-05	1.000000
rad7	6.48663e-08	1.000000	6.49136e-08	1.000000
rad30	1.78443e-08	1.000000	1.78573e-08	1.000000
rad15	2.08718e-09	1.000000	2.08870e-09	1.000000
rad25	4.00239e-10	1.000000	4.00531e-10	1.000000
rad13	3.97378e-10	1.000000	3.97667e-10	1.000000
PhCHCCH2+H	1.15875e-10	1.000000	1.15960e-10	1.000000
PAH9+H	9.62950e-11	1.000000	9.63653e-11	1.000000
rad3	8.71065e-11	1.000000	8.71700e-11	1.000000
rad24	8.05327e-11	1.000000	8.05914e-11	1.000000
rad35	5.61929e-11	1.000000	5.62338e-11	1.000000
rad2	4.99444e-11	1.000000	4.99808e-11	1.000000
rad4	4.58942e-11	1.000000	4.59277e-11	1.000000
rad38	4.52951e-11	1.000000	4.53281e-11	1.000000
rad8	1.08544e-11	1.000000	1.08623e-11	1.000000
rad9	7.47818e-12	1.000000	7.48364e-12	1.000000
rad28	5.79633e-12	1.000000	5.80056e-12	1.000000
rad1	3.66017e-12	1.000000	3.66284e-12	1.000000
Ph+Allene	3.38050e-12	1.000000	3.38296e-12	1.000000
rad10	2.12651e-12	1.000000	2.12806e-12	1.000000
PhCCH+CH3	1.21486e-12	1.000000	1.21575e-12	1.000000
rad33	4.78912e-13	1.000000	4.79261e-13	1.000000
rad46	2.29319e-13	1.000000	2.29486e-13	1.000000
rad60syn	1.11073e-13	1.000000	1.11154e-13	1.000000
PhCH2CCH+H	5.45412e-14	1.000000	5.45810e-14	1.000000
rad60anti	3.21760e-14	1.000000	3.21994e-14	1.000000
PhCCCH3+H	2.56090e-14	1.000000	2.56276e-14	1.000000
rad26	1.31373e-14	1.000000	1.31468e-14	1.000000
Ph+MeAc	7.16642e-15	1.000000	7.17165e-15	1.000000
rad14	4.78062e-15	1.000000	4.78411e-15	1.000000
PAH7+H	4.87097e-16	1.000000	4.87452e-16	1.000000
PAH3+H	3.11409e-16	1.000000	3.11636e-16	1.000000
rad59	9.75254e-17	1.000000	9.75966e-17	1.000000
rad27	6.28398e-17	1.000000	6.28856e-17	1.000000
rad39	1.27691e-17	1.000000	1.27784e-17	1.000000
rad50	2.65412e-18	1.000000	2.65605e-18	1.000000
rad12	7.54256e-19	1.000000	7.54806e-19	1.000000
rad31	1.10042e-19	1.000000	1.10122e-19	1.000000
rad5	9.64880e-20	1.000000	9.65584e-20	1.000000
rad37	7.65706e-20	1.000000	7.66264e-20	1.000000
rad19syn	2.40264e-21	1.000000	2.40439e-21	1.000000
rad52	1.04752e-21	1.000000	1.04828e-21	1.000000
rad54	8.79324e-23	1.000000	8.79965e-23	1.000000
rad51	4.02877e-23	1.000000	4.03170e-23	1.000000
rad43	5.98033e-24	1.000000	5.98469e-24	1.000000
rad70	5.50987e-24	1.000000	5.51388e-24	1.000000
PAH10+CH3	5.02800e-24	1.000000	5.03167e-24	1.000000
rad58	3.97768e-24	1.000000	3.98058e-24	1.000000
rad62	3.66348e-24	1.000000	3.66615e-24	1.000000
PhcycC3H3_A+H	5.86341e-25	1.000000	5.86769e-25	1.000000
rad65	3.61874e-25	1.000000	3.62138e-25	1.000000
rad55	1.50017e-25	1.000000	1.50127e-25	1.000000
rad34	1.54037e-26	1.000000	1.54150e-26	1.000000
PAH1+H	3.14318e-27	1.000000	3.14547e-27	1.000000
rad47	3.76190e-29	1.000000	3.76464e-29	1.000000
rad42	2.12873e-29	1.000000	2.13028e-29	1.000000
rad41	5.74771e-30	1.000000	5.75190e-30	1.000000

100.000000 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89188e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.637289	0.637289	0.637860	0.637860
rad22	0.265365	0.902654	0.265603	0.903463
rad23	0.0856158	0.988270	0.0856926	0.989156
rad45	0.00834940	0.996619	0.00835688	0.997512
Benzyl+C2H2	0.000895861	0.997515	0.000000	0.997512
rad18	0.000744635	0.998260	0.000745302	0.998258
rad11	0.000671199	0.998931	0.000671801	0.998930
rad36	0.000540111	0.999471	0.000540596	0.999470
rad6	0.000442423	0.999913	0.000442820	0.999913
rad20	5.37637e-05	0.999967	5.38119e-05	0.999967
rad21	3.30527e-05	1.000000	3.30823e-05	1.000000
rad7	8.56957e-08	1.000000	8.57725e-08	1.000000

rad30	2.42713e-08	1.00000	2.42930e-08	1.00000
rad15	3.04601e-09	1.00000	3.04874e-09	1.00000
rad25	5.18027e-10	1.00000	5.18492e-10	1.00000
rad13	4.87543e-10	1.00000	4.87980e-10	1.00000
PhCHCCH2+H	2.16357e-10	1.00000	2.16551e-10	1.00000
PAH9+H	1.60575e-10	1.00000	1.60719e-10	1.00000
rad3	1.36641e-10	1.00000	1.36763e-10	1.00000
rad2	9.78773e-11	1.00000	9.79651e-11	1.00000
rad35	9.08885e-11	1.00000	9.09700e-11	1.00000
rad24	7.94020e-11	1.00000	7.94732e-11	1.00000
rad4	7.22937e-11	1.00000	7.23585e-11	1.00000
rad38	7.19375e-11	1.00000	7.20020e-11	1.00000
rad8	2.27700e-11	1.00000	2.27904e-11	1.00000
rad9	1.46449e-11	1.00000	1.46580e-11	1.00000
rad28	1.11509e-11	1.00000	1.11609e-11	1.00000
Ph+Allene	7.71928e-12	1.00000	7.72620e-12	1.00000
rad1	7.27639e-12	1.00000	7.28291e-12	1.00000
rad10	4.60681e-12	1.00000	4.61094e-12	1.00000
PhCCH+CH3	2.91632e-12	1.00000	2.91894e-12	1.00000
rad33	5.90527e-13	1.00000	5.91057e-13	1.00000
rad46	4.38702e-13	1.00000	4.39095e-13	1.00000
rad60syn	2.31279e-13	1.00000	2.31486e-13	1.00000
PhCH2CCH+H	1.49904e-13	1.00000	1.50038e-13	1.00000
PhCCCH3+H	7.58258e-14	1.00000	7.58938e-14	1.00000
rad60anti	6.95600e-14	1.00000	6.96224e-14	1.00000
rad26	3.76117e-14	1.00000	3.76455e-14	1.00000
Ph+MeAc	2.25569e-14	1.00000	2.25772e-14	1.00000
rad14	8.48474e-15	1.00000	8.49235e-15	1.00000
PAH7+H	1.31140e-15	1.00000	1.31257e-15	1.00000
PAH3+H	9.03786e-16	1.00000	9.04597e-16	1.00000
rad59	2.76977e-16	1.00000	2.77226e-16	1.00000
rad27	1.24522e-16	1.00000	1.24634e-16	1.00000
rad39	4.39294e-17	1.00000	4.39688e-17	1.00000
rad50	8.32294e-18	1.00000	8.33040e-18	1.00000
rad12	3.07477e-18	1.00000	3.07752e-18	1.00000
rad5	3.74191e-19	1.00000	3.74526e-19	1.00000
rad37	3.34991e-19	1.00000	3.35291e-19	1.00000
rad31	1.97638e-19	1.00000	1.97815e-19	1.00000
rad19syn	1.04686e-20	1.00000	1.04780e-20	1.00000
rad52	4.17646e-21	1.00000	4.18020e-21	1.00000
rad54	4.19420e-22	1.00000	4.19796e-22	1.00000
rad51	1.92200e-22	1.00000	1.92372e-22	1.00000
rad43	3.05460e-23	1.00000	3.05734e-23	1.00000
PAH10+CH3	2.84344e-23	1.00000	2.84599e-23	1.00000
rad70	2.82807e-23	1.00000	2.83060e-23	1.00000
rad58	2.09961e-23	1.00000	2.10149e-23	1.00000
rad62	1.85424e-23	1.00000	1.85590e-23	1.00000
PhcycC3H3_A+H	3.31441e-24	1.00000	3.31738e-24	1.00000
rad65	1.86572e-24	1.00000	1.86739e-24	1.00000
rad55	8.34564e-25	1.00000	8.35313e-25	1.00000
rad34	8.94437e-26	1.00000	8.95239e-26	1.00000
PAH1+H	1.96020e-26	1.00000	1.96196e-26	1.00000
rad47	1.87875e-28	1.00000	1.88044e-28	1.00000
rad42	1.35239e-28	1.00000	1.35360e-28	1.00000
rad41	3.76828e-29	1.00000	3.77166e-29	1.00000

100.000000 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.19555e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.654398	0.654398	0.655115	0.655115
rad22	0.244687	0.899085	0.244955	0.900070
rad23	0.0892252	0.988310	0.0893231	0.989393
rad45	0.00817548	0.996486	0.00818445	0.997578
Benzyl+C2H2	0.00109569	0.997581	0.000000	0.997578
rad11	0.000681875	0.998263	0.000682623	0.998260
rad18	0.000594045	0.998857	0.000594697	0.998855
rad6	0.000540325	0.999398	0.000540917	0.999396
rad36	0.000532517	0.999930	0.000533101	0.999929
rad20	4.33220e-05	0.999973	4.33696e-05	0.999972
rad21	2.66436e-05	1.00000	2.66729e-05	0.999999
rad7	1.11070e-07	1.00000	1.11192e-07	0.999999
rad30	3.26037e-08	1.00000	3.26395e-08	0.999999
rad15	4.36554e-09	1.00000	4.37033e-09	0.999999
rad25	6.50470e-10	1.00000	6.51183e-10	0.999999
rad13	5.91927e-10	1.00000	5.92576e-10	0.999999

PhCHCCH2+H	3.89910e-10	1.00000	3.90338e-10	0.999999
PAH9+H	2.63603e-10	1.00000	2.63892e-10	0.999999
rad3	2.08365e-10	1.00000	2.08594e-10	0.999999
rad2	1.84968e-10	1.00000	1.85171e-10	0.999999
rad35	1.44927e-10	1.00000	1.45086e-10	0.999999
rad38	1.13151e-10	1.00000	1.13275e-10	0.999999
rad4	1.10737e-10	1.00000	1.10858e-10	0.999999
rad24	7.86697e-11	1.00000	7.87560e-11	0.999999
rad8	4.55809e-11	1.00000	4.56309e-11	0.999999
rad9	2.75737e-11	1.00000	2.76039e-11	0.999999
rad28	2.09241e-11	1.00000	2.09470e-11	0.999999
Ph+Allene	1.67437e-11	1.00000	1.67621e-11	0.999999
rad1	1.39632e-11	1.00000	1.39785e-11	0.999999
rad10	9.51855e-12	1.00000	9.52899e-12	0.999999
PhCCH+CH3	6.70847e-12	1.00000	6.71583e-12	0.999999
rad46	8.18127e-13	1.00000	8.19025e-13	0.999999
rad33	7.20719e-13	1.00000	7.21510e-13	0.999999
rad60syn	4.59620e-13	1.00000	4.60125e-13	0.999999
PhCH2CCH+H	3.86682e-13	1.00000	3.87106e-13	0.999999
PhCCCH3+H	2.13101e-13	1.00000	2.13335e-13	0.999999
rad60anti	1.43051e-13	1.00000	1.43208e-13	0.999999
rad26	1.01779e-13	1.00000	1.01891e-13	0.999999
Ph+MeAc	6.71729e-14	1.00000	6.72466e-14	0.999999
rad14	1.44021e-14	1.00000	1.44179e-14	0.999999
PAH7+H	3.36116e-15	1.00000	3.36485e-15	0.999999
PAH3+H	2.44597e-15	1.00000	2.44866e-15	0.999999
rad59	7.34053e-16	1.00000	7.34858e-16	0.999999
rad27	2.37299e-16	1.00000	2.37559e-16	0.999999
rad39	1.43087e-16	1.00000	1.43244e-16	0.999999
rad50	2.43884e-17	1.00000	2.44152e-17	0.999999
rad12	1.15976e-17	1.00000	1.16103e-17	0.999999
rad37	1.34585e-18	1.00000	1.34733e-18	0.999999
rad5	1.34354e-18	1.00000	1.34501e-18	0.999999
rad31	3.48565e-19	1.00000	3.48947e-19	0.999999
rad19syn	4.15493e-20	1.00000	4.15949e-20	0.999999
rad52	1.52360e-20	1.00000	1.52527e-20	0.999999
rad54	1.80414e-21	1.00000	1.80611e-21	0.999999
rad51	8.24820e-22	1.00000	8.25725e-22	0.999999
PAH10+CH3	1.42984e-22	1.00000	1.43140e-22	0.999999
rad43	1.40007e-22	1.00000	1.40160e-22	0.999999
rad70	1.28900e-22	1.00000	1.29041e-22	0.999999
rad58	9.80725e-23	1.00000	9.81800e-23	0.999999
rad62	8.40495e-23	1.00000	8.41416e-23	0.999999
PhcycC3H3_A+H	1.65179e-23	1.00000	1.65360e-23	0.999999
rad65	8.57173e-24	1.00000	8.58113e-24	0.999999
rad55	4.10142e-24	1.00000	4.10592e-24	0.999999
rad34	4.54357e-25	1.00000	4.54856e-25	0.999999
PAH1+H	1.06618e-25	1.00000	1.06735e-25	0.999999
rad47	8.32978e-28	1.00000	8.33892e-28	0.999999
rad42	7.46891e-28	1.00000	7.47710e-28	0.999999
rad41	2.14957e-28	1.00000	2.15193e-28	0.999999

100.000000 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17545e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.697895	0.697895	0.699050	0.699050
rad22	0.198018	0.895913	0.198346	0.897396
rad23	0.0916534	0.987566	0.0918051	0.989201
rad45	0.00834304	0.995909	0.00835685	0.997558
Benzyl+C2H2	0.00165274	0.997562	0.00000	0.997558
rad18	0.000737695	0.998300	0.000738916	0.998297
rad6	0.000716786	0.999017	0.000717972	0.999015
rad11	0.000523537	0.999540	0.000524404	0.999539
rad36	0.000284359	0.999825	0.000284829	0.999824
rad20	0.000106895	0.999931	0.000107072	0.999931
rad21	6.85251e-05	1.000000	6.86385e-05	1.000000
rad7	1.64782e-07	1.00000	1.65055e-07	1.000000
rad30	3.72560e-08	1.00000	3.73176e-08	1.000000
rad9	4.48223e-09	1.00000	4.48965e-09	1.000000
PAH9+H	2.00065e-09	1.00000	2.00396e-09	1.000000
rad2	9.65203e-10	1.00000	9.66801e-10	1.000000
rad35	8.32761e-10	1.00000	8.34139e-10	1.000000
rad13	7.81513e-10	1.00000	7.82807e-10	1.000000
rad25	6.89950e-10	1.00000	6.91092e-10	1.000000
PhCHCCH2+H	6.57298e-10	1.00000	6.58386e-10	1.000000

rad38	5.59593e-10	1.00000	5.60519e-10	1.000000
rad3	4.69317e-10	1.00000	4.70094e-10	1.000000
rad4	2.33404e-10	1.00000	2.33791e-10	1.000000
rad28	1.13506e-10	1.00000	1.13694e-10	1.000000
rad24	1.01127e-10	1.00000	1.01294e-10	1.000000
PhCCH+CH3	8.85021e-11	1.00000	8.86486e-11	1.000000
rad1	7.27345e-11	1.00000	7.28549e-11	1.000000
rad10	6.39427e-11	1.00000	6.40485e-11	1.000000
Ph+Allene	1.71625e-11	1.00000	1.71909e-11	1.000000
PhCCCH3+H	9.58779e-12	1.00000	9.60367e-12	1.000000
rad46	8.38688e-12	1.00000	8.40076e-12	1.000000
rad15	4.49866e-12	1.00000	4.50611e-12	1.000000
Ph+MeAc	3.82208e-12	1.00000	3.82841e-12	1.000000
rad26	3.08397e-12	1.00000	3.08908e-12	1.000000
rad19anti	1.20129e-12	1.00000	1.20327e-12	1.000000
rad33	1.19597e-12	1.00000	1.19795e-12	1.000000
PhCH2CCH+H	9.15106e-13	1.00000	9.16621e-13	1.000000
rad60syn	7.09269e-13	1.00000	7.10443e-13	1.000000
rad60anti	2.13635e-13	1.00000	2.13989e-13	1.000000
PAH7+H	6.45433e-14	1.00000	6.46501e-14	1.000000
rad14	4.17645e-14	1.00000	4.18337e-14	1.000000
rad39	1.13898e-14	1.00000	1.14086e-14	1.000000
PAH3+H	6.29056e-15	1.00000	6.30098e-15	1.000000
rad50	2.37609e-15	1.00000	2.38002e-15	1.000000
rad59	1.45489e-15	1.00000	1.45730e-15	1.000000
rad27	1.35454e-15	1.00000	1.35679e-15	1.000000
rad37	5.25144e-16	1.00000	5.26013e-16	1.000000
rad12	4.77056e-17	1.00000	4.77846e-17	1.000000
rad5	7.79167e-18	1.00000	7.80457e-18	1.000000
rad52	5.86510e-18	1.00000	5.87481e-18	1.000000
rad19syn	4.85737e-18	1.00000	4.86541e-18	1.000000
rad31	2.48916e-18	1.00000	2.49328e-18	1.000000
rad51	9.80734e-19	1.00000	9.82358e-19	1.000000
rad67	5.56018e-19	1.00000	5.56939e-19	1.000000
rad54	3.83045e-19	1.00000	3.83679e-19	1.000000
PAH10+CH3	3.42293e-19	1.00000	3.42860e-19	1.000000
rad43	8.28860e-20	1.00000	8.30232e-20	1.000000
rad62	3.00488e-20	1.00000	3.00986e-20	1.000000
PhcycC3H3_A+H	1.89073e-20	1.00000	1.89386e-20	1.000000
rad65	1.78740e-20	1.00000	1.79036e-20	1.000000
rad70	6.43595e-21	1.00000	6.44661e-21	1.000000
rad55	2.83086e-21	1.00000	2.83554e-21	1.000000
PAH1+H	1.45712e-21	1.00000	1.45953e-21	1.000000
rad58	5.69657e-22	1.00000	5.70600e-22	1.000000
rad34	1.29235e-22	1.00000	1.29449e-22	1.000000
rad42	6.65490e-24	1.00000	6.66592e-24	1.000000
rad41	3.73025e-24	1.00000	3.73642e-24	1.000000
rad53	6.05422e-25	1.00000	6.06424e-25	1.000000
rad47	5.10498e-25	1.00000	5.11343e-25	1.000000
rad64	2.17468e-25	1.00000	2.17828e-25	1.000000
rad56	9.10245e-27	1.00000	9.11752e-27	1.000000
rad73	3.14296e-27	1.00000	3.14817e-27	1.000000
rad68syn	1.00403e-27	1.00000	1.00569e-27	1.000000
rad61	9.00605e-28	1.00000	9.02096e-28	1.000000
rad68anti	7.24683e-28	1.00000	7.25882e-28	1.000000
rad71	1.21589e-28	1.00000	1.21790e-28	1.000000
rad40syn	6.59988e-30	1.00000	6.61080e-30	1.000000
PAH8+H	3.51739e-30	1.00000	3.52321e-30	1.000000
rad40anti	1.77833e-30	1.00000	1.78128e-30	1.000000
rad72	2.16529e-34	1.00000	2.16888e-34	1.000000
rad8	6.29962e-38	1.00000	6.31005e-38	1.000000

100.000000 Pa, 310.000000 K

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

Total | 2.44453e-22 (1.00) | 2.44059e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.687324	0.687324	0.688435	0.688435
rad22	0.204858	0.892182	0.205189	0.893624
rad23	0.0958650	0.988047	0.0960199	0.989644
rad45	0.00792320	0.995970	0.00793601	0.997580
Benzyl+C2H2	0.00161374	0.997584	0.000000	0.997580
rad6	0.000780630	0.998365	0.000781892	0.998362
rad11	0.000686763	0.999051	0.000687873	0.999050
rad36	0.000524250	0.999576	0.000525097	0.999575
rad18	0.000377942	0.999954	0.000378553	0.999953
rad20	2.83769e-05	0.999982	2.84227e-05	0.999982

rad21	1.74687e-05	0.999999	1.74969e-05	0.999999
rad7	1.76964e-07	1.000000	1.77250e-07	0.999999
rad30	5.68739e-08	1.000000	5.69659e-08	0.999999
rad15	8.54522e-09	1.000000	8.55903e-09	0.999999
PhCHCCH2+H	1.15332e-09	1.000000	1.15519e-09	0.999999
rad25	9.45394e-10	1.000000	9.46922e-10	0.999999
rad13	8.46187e-10	1.000000	8.47555e-10	0.999999
PAH9+H	6.78557e-10	1.000000	6.79654e-10	0.999999
rad2	5.97822e-10	1.000000	5.98788e-10	0.999999
rad3	4.47555e-10	1.000000	4.48279e-10	0.999999
rad35	3.53345e-10	1.000000	3.53916e-10	0.999999
rad38	2.71875e-10	1.000000	2.72315e-10	0.999999
rad4	2.40222e-10	1.000000	2.40610e-10	0.999999
rad8	1.61636e-10	1.000000	1.61897e-10	0.999999
rad9	8.81713e-11	1.000000	8.83138e-11	0.999999
rad24	7.82849e-11	1.000000	7.84114e-11	0.999999
Ph+Allene	6.88579e-11	1.000000	6.89692e-11	0.999999
rad28	6.88149e-11	1.000000	6.89261e-11	0.999999
rad1	4.66782e-11	1.000000	4.67536e-11	0.999999
rad10	3.57257e-11	1.000000	3.57834e-11	0.999999
PhCCH+CH3	3.17054e-11	1.000000	3.17567e-11	0.999999
rad46	2.65312e-12	1.000000	2.65741e-12	0.999999
PhCH2CCH+H	2.17844e-12	1.000000	2.18196e-12	0.999999
rad60syn	1.60746e-12	1.000000	1.61006e-12	0.999999
PhCCCH3+H	1.45665e-12	1.000000	1.45900e-12	0.999999
rad33	1.04193e-12	1.000000	1.04361e-12	0.999999
rad26	6.38442e-13	1.000000	6.39474e-13	0.999999
rad60anti	5.31247e-13	1.000000	5.32106e-13	0.999999
Ph+MeAc	5.11068e-13	1.000000	5.11894e-13	0.999999
rad14	3.68386e-14	1.000000	3.68982e-14	0.999999
PAH7+H	1.95809e-14	1.000000	1.96126e-14	0.999999
PAH3+H	1.49255e-14	1.000000	1.49496e-14	0.999999
rad59	4.30422e-15	1.000000	4.31117e-15	0.999999
rad39	1.29939e-15	1.000000	1.30149e-15	0.999999
rad27	7.75492e-16	1.000000	7.76746e-16	0.999999
rad50	1.75169e-16	1.000000	1.75452e-16	0.999999
rad12	1.33051e-16	1.000000	1.33266e-16	0.999999
rad37	1.71831e-17	1.000000	1.72108e-17	0.999999
rad5	1.40427e-17	1.000000	1.40654e-17	0.999999
rad31	1.03480e-18	1.000000	1.03648e-18	0.999999
rad19syn	5.09584e-19	1.000000	5.10408e-19	0.999999
rad52	1.60465e-19	1.000000	1.60724e-19	0.999999
rad54	2.52975e-20	1.000000	2.53384e-20	0.999999
rad51	1.14812e-20	1.000000	1.14998e-20	0.999999
PAH10+CH3	2.64256e-21	1.000000	2.64683e-21	0.999999
rad43	2.20271e-21	1.000000	2.20627e-21	0.999999
rad70	1.95625e-21	1.000000	1.95941e-21	0.999999
rad58	1.54911e-21	1.000000	1.55161e-21	0.999999
rad62	1.28659e-21	1.000000	1.28866e-21	0.999999
PhcycC3H3_A+H	2.93799e-22	1.000000	2.94274e-22	0.999999
rad65	1.33489e-22	1.000000	1.33705e-22	0.999999
rad55	7.12912e-23	1.000000	7.14064e-23	0.999999
rad34	8.25098e-24	1.000000	8.26432e-24	0.999999
PAH1+H	2.20056e-24	1.000000	2.20412e-24	0.999999
rad42	1.57916e-26	1.000000	1.58171e-26	0.999999
rad47	1.20235e-26	1.000000	1.20429e-26	0.999999
rad41	4.86442e-27	1.000000	4.87228e-27	0.999999

100.000000 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.60269e-20 (1.00)	3.57097e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.817953	0.817953	0.825218	0.825218
rad23	0.0966112	0.914564	0.0974694	0.922687
rad22	0.0654079	0.979972	0.0659889	0.988676
Benzyl+C2H2	0.00880491	0.988777	0.000000	0.988676
rad45	0.00784459	0.996622	0.00791428	0.996591
rad6	0.00258066	0.999202	0.00260359	0.999194
rad11	0.000353092	0.999555	0.000356229	0.999550
rad36	0.000300554	0.999856	0.000303224	0.999854
rad18	0.000107537	0.999963	0.000108492	0.999962
rad20	2.15246e-05	0.999985	2.17158e-05	0.999984
rad21	1.40264e-05	0.999999	1.41510e-05	0.999998
rad7	7.28890e-07	1.000000	7.35365e-07	0.999999
rad30	3.99382e-07	1.000000	4.02929e-07	0.999999
PAH9+H	8.70732e-08	1.000000	8.78467e-08	0.999999

rad9	6.06216e-08	1.00000	6.11601e-08	0.999999
PhCHCCH2+H	4.95113e-08	1.00000	4.99511e-08	0.999999
rad2	4.29407e-08	1.00000	4.33221e-08	0.999999
rad35	2.94709e-08	1.00000	2.97327e-08	0.999999
rad38	2.67517e-08	1.00000	2.69894e-08	0.999999
PhCCH+CH3	2.47503e-08	1.00000	2.49702e-08	0.999999
rad28	1.10245e-08	1.00000	1.11224e-08	0.999999
rad3	5.35442e-09	1.00000	5.40199e-09	0.999999
Ph+Allene	5.26495e-09	1.00000	5.31172e-09	0.999999
PhCCCH3+H	4.77326e-09	1.00000	4.81566e-09	0.999999
rad1	3.99634e-09	1.00000	4.03184e-09	0.999999
rad10	3.54572e-09	1.00000	3.57721e-09	0.999999
rad13	2.89541e-09	1.00000	2.92113e-09	0.999999
rad4	2.81994e-09	1.00000	2.84499e-09	0.999999
Ph+MeAc	2.68147e-09	1.00000	2.70529e-09	0.999999
rad25	1.56877e-09	1.00000	1.58271e-09	0.999999
rad46	1.09849e-09	1.00000	1.10825e-09	0.999999
rad26	8.18362e-10	1.00000	8.25632e-10	0.999999
PhCH2CCH+H	7.78040e-10	1.00000	7.84951e-10	0.999999
rad19anti	1.68799e-10	1.00000	1.70299e-10	0.999999
rad24	1.34078e-10	1.00000	1.35269e-10	0.999999
PAH7+H	9.90266e-11	1.00000	9.99062e-11	0.999999
rad60syn	9.43564e-11	1.00000	9.51945e-11	0.999999
rad15	5.96419e-11	1.00000	6.01717e-11	0.999999
rad60anti	3.75284e-11	1.00000	3.78617e-11	0.999999
rad39	2.07553e-11	1.00000	2.09396e-11	0.999999
PAH3+H	6.61941e-12	1.00000	6.67821e-12	0.999999
rad50	5.96480e-12	1.00000	6.01779e-12	0.999999
rad33	5.05224e-12	1.00000	5.09712e-12	0.999999
rad59	1.37786e-12	1.00000	1.39010e-12	0.999999
rad37	9.09272e-13	1.00000	9.17349e-13	0.999999
rad14	6.83197e-13	1.00000	6.89266e-13	0.999999
rad52	7.62492e-14	1.00000	7.69265e-14	0.999999
rad27	6.43200e-14	1.00000	6.48914e-14	0.999999
rad51	5.07893e-14	1.00000	5.12404e-14	0.999999
rad19syn	2.24070e-14	1.00000	2.26061e-14	0.999999
rad54	3.25898e-15	1.00000	3.28793e-15	0.999999
PAH10+CH3	2.17028e-15	1.00000	2.18956e-15	0.999999
rad5	1.67948e-15	1.00000	1.69439e-15	0.999999
rad65	1.39728e-15	1.00000	1.40969e-15	0.999999
rad67	1.19892e-15	1.00000	1.20957e-15	0.999999
rad12	1.04657e-15	1.00000	1.05587e-15	0.999999
PhcycC3H3_A+H	5.95713e-16	1.00000	6.01005e-16	0.999999
rad31	3.62123e-16	1.00000	3.65340e-16	0.999999
rad43	3.25847e-16	1.00000	3.28742e-16	0.999999
rad70	1.88153e-16	1.00000	1.89825e-16	0.999999
rad62	1.76458e-16	1.00000	1.78025e-16	0.999999
PAH1+H	1.44167e-16	1.00000	1.45448e-16	0.999999
rad55	6.55103e-17	1.00000	6.60922e-17	0.999999
rad58	4.91279e-17	1.00000	4.95643e-17	0.999999
rad34	1.13808e-17	1.00000	1.14819e-17	0.999999
rad73	6.86389e-19	1.00000	6.92487e-19	0.999999
rad53	4.40963e-19	1.00000	4.44880e-19	0.999999
rad42	3.71378e-19	1.00000	3.74677e-19	0.999999
rad64	3.46309e-19	1.00000	3.49385e-19	0.999999
rad71	1.67106e-19	1.00000	1.68591e-19	0.999999
rad41	1.29250e-19	1.00000	1.30398e-19	0.999999
rad56	7.05804e-20	1.00000	7.12074e-20	0.999999
rad68syn	1.13298e-20	1.00000	1.14305e-20	0.999999
rad68anti	7.77247e-21	1.00000	7.84151e-21	0.999999
rad47	7.19380e-21	1.00000	7.25770e-21	0.999999
rad61	4.96538e-21	1.00000	5.00948e-21	0.999999
PAH8+H	1.79592e-21	1.00000	1.81187e-21	0.999999
rad40syn	7.04339e-22	1.00000	7.10596e-22	0.999999
rad40anti	2.56212e-22	1.00000	2.58488e-22	0.999999
rad72	8.93483e-23	1.00000	9.01419e-23	0.999999
rad8	7.17378e-34	1.00000	7.23750e-34	0.999999

100.000000 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	1.22595e-18 (1.00)	1.18810e-18 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.877447	0.877447	0.905405	0.905405
rad23	0.0634002	0.940847	0.0654203	0.970825
Benzyl+C2H2	0.0308789	0.971726	0.00000	0.970825
rad22	0.0154664	0.987193	0.0159592	0.986784

rad45	0.00665628	0.993849	0.00686837	0.993653
rad6	0.00566298	0.999512	0.00584342	0.999496
rad36	0.000309574	0.999821	0.000319438	0.999816
rad11	0.000137618	0.999959	0.000142003	0.999958
rad18	1.81826e-05	0.999977	1.87620e-05	0.999976
rad20	6.55638e-06	0.999984	6.76529e-06	0.999983
rad21	4.43350e-06	0.999988	4.57476e-06	0.999988
rad30	2.18409e-06	0.999990	2.25368e-06	0.999990
PAH9+H	2.06603e-06	0.999992	2.13186e-06	0.999992
rad7	1.69188e-06	0.999994	1.74578e-06	0.999994
PhCCH+CH3	1.37044e-06	0.999995	1.41410e-06	0.999995
PhCHCCH2+H	1.25919e-06	0.999997	1.29931e-06	0.999997
rad38	7.39153e-07	0.999997	7.62704e-07	0.999997
rad35	5.37900e-07	0.999998	5.55039e-07	0.999998
Ph+Allene	3.74925e-07	0.999998	3.86871e-07	0.999998
rad2	3.63767e-07	0.999999	3.75358e-07	0.999999
rad28	2.80547e-07	0.999999	2.89487e-07	0.999999
rad9	2.62019e-07	0.999999	2.70368e-07	0.999999
PhCCCH3+H	2.60428e-07	1.000000	2.68726e-07	1.000000
Ph+MeAc	2.03249e-07	1.000000	2.09725e-07	1.000000
PhCH2CCH+H	9.83127e-08	1.000000	1.01445e-07	1.000000
rad46	7.88691e-08	1.000000	8.13821e-08	1.000000
rad1	4.34394e-08	1.000000	4.48235e-08	1.000000
PAH7+H	2.98594e-08	1.000000	3.08108e-08	1.000000
rad10	2.80992e-08	1.000000	2.89945e-08	1.000000
rad3	2.73024e-08	1.000000	2.81723e-08	1.000000
rad26	1.87382e-08	1.000000	1.93353e-08	1.000000
rad4	1.53700e-08	1.000000	1.58597e-08	1.000000
rad13	7.10278e-09	1.000000	7.32910e-09	1.000000
rad39	6.51945e-09	1.000000	6.72718e-09	1.000000
rad50	6.18010e-09	1.000000	6.37701e-09	1.000000
rad19anti	6.09917e-09	1.000000	6.29350e-09	1.000000
rad60syn	2.21942e-09	1.000000	2.29013e-09	1.000000
rad25	1.24059e-09	1.000000	1.28012e-09	1.000000
rad60anti	1.00506e-09	1.000000	1.03708e-09	1.000000
PAH3+H	6.89710e-10	1.000000	7.11686e-10	1.000000
rad51	4.45681e-10	1.000000	4.59881e-10	1.000000
rad15	2.56830e-10	1.000000	2.65013e-10	1.000000
rad52	2.55668e-10	1.000000	2.63814e-10	1.000000
rad24	2.13191e-10	1.000000	2.19984e-10	1.000000
rad37	1.48262e-10	1.000000	1.52986e-10	1.000000
rad59	1.20507e-10	1.000000	1.24346e-10	1.000000
rad19syn	3.83621e-11	1.000000	3.95844e-11	1.000000
rad33	1.52421e-11	1.000000	1.57277e-11	1.000000
PAH10+CH3	1.35302e-11	1.000000	1.39613e-11	1.000000
rad65	1.31757e-11	1.000000	1.35955e-11	1.000000
rad54	1.06729e-11	1.000000	1.10129e-11	1.000000
PhcycC3H3_A+H	6.35303e-12	1.000000	6.55545e-12	1.000000
PAH1+H	5.52334e-12	1.000000	5.69933e-12	1.000000
rad14	3.30024e-12	1.000000	3.40539e-12	1.000000
rad67	3.13010e-12	1.000000	3.22984e-12	1.000000
rad70	1.63044e-12	1.000000	1.68239e-12	1.000000
rad73	8.33208e-13	1.000000	8.59756e-13	1.000000
rad71	6.57034e-13	1.000000	6.77969e-13	1.000000
rad27	5.42558e-13	1.000000	5.59845e-13	1.000000
rad55	4.75814e-13	1.000000	4.90974e-13	1.000000
rad58	4.67268e-13	1.000000	4.82156e-13	1.000000
rad62	2.44526e-13	1.000000	2.52317e-13	1.000000
rad34	2.44070e-13	1.000000	2.51846e-13	1.000000
rad43	1.48181e-13	1.000000	1.52902e-13	1.000000
rad64	5.71288e-14	1.000000	5.89491e-14	1.000000
rad31	3.21395e-14	1.000000	3.31635e-14	1.000000
rad53	2.75762e-14	1.000000	2.84548e-14	1.000000
rad5	2.68661e-14	1.000000	2.77221e-14	1.000000
rad56	1.41655e-14	1.000000	1.46169e-14	1.000000
rad12	1.16652e-14	1.000000	1.20369e-14	1.000000
rad72	7.39869e-15	1.000000	7.63443e-15	1.000000
PAH8+H	5.82722e-15	1.000000	6.01289e-15	1.000000
rad61	5.52424e-15	1.000000	5.70026e-15	1.000000
rad68syn	4.33803e-15	1.000000	4.47625e-15	1.000000
rad42	4.30622e-15	1.000000	4.44343e-15	1.000000
rad68anti	2.87036e-15	1.000000	2.96181e-15	1.000000
rad40syn	9.60053e-16	1.000000	9.90643e-16	1.000000
rad41	7.78037e-16	1.000000	8.02828e-16	1.000000
rad40anti	4.96981e-16	1.000000	5.12816e-16	1.000000
rad47	2.67599e-17	1.000000	2.76125e-17	1.000000
rad8	9.08106e-30	1.000000	9.37041e-30	1.000000

100.000000 Pa, 600.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
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Total	1.36947e-17	(1.00)	1.26256e-17	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.877637	0.877637	0.951949	0.951949
Benzyl+C2H2	0.0780630	0.955700	0.00000	0.951949
rad23	0.0276501	0.983350	0.0299914	0.981940
rad6	0.00935336	0.992703	0.0101453	0.992086
rad45	0.00383086	0.996534	0.00415523	0.996241
rad22	0.00304575	0.999580	0.00330365	0.999545
rad36	0.000223267	0.999803	0.000242172	0.999787
rad11	4.10925e-05	0.999844	4.45719e-05	0.999831
PAH9+H	3.65276e-05	0.999881	3.96205e-05	0.999871
PhCCH+CH3	2.17293e-05	0.999903	2.35692e-05	0.999895
PhCHCCH2+H	1.66273e-05	0.999919	1.80351e-05	0.999913
rad38	1.54637e-05	0.999935	1.67731e-05	0.999929
Ph+Allene	1.19523e-05	0.999947	1.29643e-05	0.999942
rad30	7.62825e-06	0.999954	8.27416e-06	0.999951
rad35	6.90765e-06	0.999961	7.49254e-06	0.999958
PhCH2CCH+H	4.82760e-06	0.999966	5.23637e-06	0.999963
rad18	4.22835e-06	0.999970	4.58638e-06	0.999968
rad46	3.54227e-06	0.999974	3.84220e-06	0.999972
rad20	3.52200e-06	0.999977	3.82021e-06	0.999976
Ph+MeAc	3.49687e-06	0.999981	3.79296e-06	0.999979
PhCCCH3+H	3.37843e-06	0.999984	3.66449e-06	0.999983
rad7	2.87330e-06	0.999987	3.11659e-06	0.999986
PAH7+H	2.60036e-06	0.999990	2.82054e-06	0.999989
rad21	2.54908e-06	0.999992	2.76492e-06	0.999992
rad28	2.14282e-06	0.999994	2.32426e-06	0.999994
rad50	1.64164e-06	0.999996	1.78064e-06	0.999996
rad2	1.36982e-06	0.999997	1.48580e-06	0.999997
rad39	7.99526e-07	0.999998	8.67224e-07	0.999998
rad9	5.34518e-07	0.999999	5.79777e-07	0.999999
rad51	3.59610e-07	0.999999	3.90059e-07	0.999999
rad1	2.02424e-07	0.999999	2.19563e-07	0.999999
rad19anti	1.60131e-07	0.999999	1.73690e-07	1.000000
rad52	1.22175e-07	1.000000	1.32520e-07	1.000000
rad26	9.25710e-08	1.000000	1.00409e-07	1.000000
rad3	9.00111e-08	1.000000	9.76326e-08	1.000000
rad10	6.80985e-08	1.000000	7.38646e-08	1.000000
PAH3+H	6.28825e-08	1.000000	6.82070e-08	1.000000
rad4	5.47612e-08	1.000000	5.93980e-08	1.000000
rad60syn	2.48443e-08	1.000000	2.69479e-08	1.000000
PAH10+CH3	2.22479e-08	1.000000	2.41316e-08	1.000000
rad37	1.63869e-08	1.000000	1.77744e-08	1.000000
rad13	1.49740e-08	1.000000	1.62419e-08	1.000000
rad60anti	1.27252e-08	1.000000	1.38027e-08	1.000000
PAH1+H	1.04226e-08	1.000000	1.13052e-08	1.000000
rad65	9.83078e-09	1.000000	1.06632e-08	1.000000
rad71	7.26890e-09	1.000000	7.88438e-09	1.000000
rad59	7.20714e-09	1.000000	7.81739e-09	1.000000
rad19syn	5.72703e-09	1.000000	6.21195e-09	1.000000
rad73	5.71663e-09	1.000000	6.20068e-09	1.000000
rad67	3.16540e-09	1.000000	3.43342e-09	1.000000
PhcycC3H3_A+H	2.45951e-09	1.000000	2.66776e-09	1.000000
rad54	2.10051e-09	1.000000	2.27836e-09	1.000000
rad70	1.41617e-09	1.000000	1.53608e-09	1.000000
rad24	7.36714e-10	1.000000	7.99094e-10	1.000000
rad25	6.55569e-10	1.000000	7.11078e-10	1.000000
rad15	4.95299e-10	1.000000	5.37237e-10	1.000000
rad58	4.33244e-10	1.000000	4.69928e-10	1.000000
rad34	3.52919e-10	1.000000	3.82802e-10	1.000000
rad72	2.06783e-10	1.000000	2.24292e-10	1.000000
rad64	1.81752e-10	1.000000	1.97141e-10	1.000000
rad55	1.34781e-10	1.000000	1.46194e-10	1.000000
rad62	8.18488e-11	1.000000	8.87792e-11	1.000000
PAH8+H	8.04191e-11	1.000000	8.72284e-11	1.000000
rad33	4.56117e-11	1.000000	4.94738e-11	1.000000
rad61	3.70422e-11	1.000000	4.01787e-11	1.000000
rad53	2.64654e-11	1.000000	2.87063e-11	1.000000
rad68syn	2.58094e-11	1.000000	2.79948e-11	1.000000
rad56	2.46784e-11	1.000000	2.67680e-11	1.000000
rad43	2.35392e-11	1.000000	2.55323e-11	1.000000
rad68anti	1.68008e-11	1.000000	1.82234e-11	1.000000
rad40syn	9.63335e-12	1.000000	1.04490e-11	1.000000
rad14	8.92184e-12	1.000000	9.67727e-12	1.000000
rad42	6.32491e-12	1.000000	6.86046e-12	1.000000
rad40anti	5.71718e-12	1.000000	6.20127e-12	1.000000

rad27	1.67066e-12	1.00000	1.81212e-12	1.00000
rad41	1.27506e-12	1.00000	1.38302e-12	1.00000
rad31	6.28697e-13	1.00000	6.81931e-13	1.00000
rad12	1.31225e-13	1.00000	1.42336e-13	1.00000
rad5	9.95409e-14	1.00000	1.07969e-13	1.00000
rad47	3.01650e-14	1.00000	3.27192e-14	1.00000
rad8	2.44791e-25	1.00000	2.65519e-25	1.00000

100.000000 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	6.78865e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.821814	0.821814	0.971192	0.971192
Benzyl+C2H2	0.153809	0.975623	0.00000	0.971192
rad6	0.0121376	0.987761	0.0143438	0.985536
rad23	0.00909000	0.996851	0.0107423	0.996278
rad45	0.00145274	0.998303	0.00171680	0.997995
rad22	0.000575629	0.998879	0.000680259	0.998675
PAH9+H	0.000247705	0.999127	0.000292730	0.998968
PhCCH+CH3	0.000139445	0.999266	0.000164792	0.999133
rad38	0.000113818	0.999380	0.000134506	0.999267
PhCHCCH2+H	0.000108059	0.999488	0.000127701	0.999395
Ph+Allene	0.000104215	0.999592	0.000123158	0.999518
rad36	9.66518e-05	0.999689	0.000114220	0.999632
PhCH2CCH+H	4.93131e-05	0.999738	5.82765e-05	0.999691
rad35	3.94058e-05	0.999778	4.65685e-05	0.999737
PAH7+H	3.49561e-05	0.999813	4.13100e-05	0.999778
rad46	3.46320e-05	0.999847	4.09269e-05	0.999819
rad50	2.76549e-05	0.999875	3.26817e-05	0.999852
Ph+MeAc	2.30579e-05	0.999898	2.72491e-05	0.999879
rad30	1.95081e-05	0.999917	2.30540e-05	0.999902
PhCCCH3+H	1.80697e-05	0.999935	2.13542e-05	0.999924
rad39	1.33476e-05	0.999949	1.57737e-05	0.999939
rad11	1.27840e-05	0.999962	1.51077e-05	0.999955
rad51	7.79943e-06	0.999969	9.21711e-06	0.999964
rad28	6.57831e-06	0.999976	7.77402e-06	0.999972
rad7	3.95118e-06	0.999980	4.66937e-06	0.999976
rad20	3.50806e-06	0.999983	4.14571e-06	0.999980
rad21	2.76570e-06	0.999986	3.26842e-06	0.999984
rad2	2.72276e-06	0.999989	3.21766e-06	0.999987
rad52	2.35123e-06	0.999991	2.77861e-06	0.999990
rad19anti	1.66156e-06	0.999993	1.96358e-06	0.999992
rad18	1.60178e-06	0.999995	1.89293e-06	0.999993
PAH3+H	9.80509e-07	0.999996	1.15873e-06	0.999995
rad9	9.13971e-07	0.999996	1.08010e-06	0.999996
PAH10+CH3	5.43373e-07	0.999997	6.42140e-07	0.999996
rad1	4.65305e-07	0.999997	5.49882e-07	0.999997
PAH1+H	2.70362e-07	0.999998	3.19505e-07	0.999997
rad37	2.64016e-07	0.999998	3.12006e-07	0.999998
rad71	2.48364e-07	0.999998	2.93509e-07	0.999998
rad65	2.06866e-07	0.999998	2.44468e-07	0.999998
rad26	2.01721e-07	0.999999	2.38387e-07	0.999998
rad73	1.81368e-07	0.999999	2.14335e-07	0.999999
rad60syn	1.64143e-07	0.999999	1.93979e-07	0.999999
rad3	1.52073e-07	0.999999	1.79714e-07	0.999999
rad59	9.94194e-08	0.999999	1.17491e-07	0.999999
rad4	9.93691e-08	0.999999	1.17431e-07	0.999999
rad10	9.25807e-08	0.999999	1.09409e-07	0.999999
rad60anti	9.15508e-08	1.000000	1.08192e-07	0.999999
rad19syn	7.04452e-08	1.000000	8.32498e-08	0.999999
rad67	7.02196e-08	1.000000	8.29831e-08	1.000000
PhcycC3H3_A+H	3.96834e-08	1.000000	4.68965e-08	1.000000
rad70	3.40807e-08	1.000000	4.02754e-08	1.000000
rad13	3.08424e-08	1.000000	3.64486e-08	1.000000
rad54	2.71210e-08	1.000000	3.20507e-08	1.000000
rad58	9.60938e-09	1.000000	1.13560e-08	1.000000
rad34	9.27966e-09	1.000000	1.09664e-08	1.000000
rad72	8.03550e-09	1.000000	9.49609e-09	1.000000
rad24	5.37466e-09	1.000000	6.35159e-09	1.000000
rad64	5.09377e-09	1.000000	6.01964e-09	1.000000
PAH8+H	2.90200e-09	1.000000	3.42949e-09	1.000000
rad62	2.02356e-09	1.000000	2.39137e-09	1.000000
rad55	1.93624e-09	1.000000	2.28818e-09	1.000000
rad61	1.14962e-09	1.000000	1.35858e-09	1.000000
rad68syn	8.33784e-10	1.000000	9.85338e-10	1.000000
rad43	5.85300e-10	1.000000	6.91688e-10	1.000000

rad15	5.79678e-10	1.000000	6.85044e-10	1.000000
rad56	5.77771e-10	1.000000	6.82791e-10	1.000000
rad68anti	5.41552e-10	1.000000	6.39988e-10	1.000000
rad53	5.39844e-10	1.000000	6.37970e-10	1.000000
rad25	3.73805e-10	1.000000	4.41750e-10	1.000000
rad40syn	3.33864e-10	1.000000	3.94550e-10	1.000000
rad40anti	2.01778e-10	1.000000	2.38455e-10	1.000000
rad42	1.90998e-10	1.000000	2.25715e-10	1.000000
rad33	1.72835e-10	1.000000	2.04251e-10	1.000000
rad41	4.28776e-11	1.000000	5.06713e-11	1.000000
rad14	1.75535e-11	1.000000	2.07441e-11	1.000000
rad27	3.66739e-12	1.000000	4.33400e-12	1.000000
rad47	3.35488e-12	1.000000	3.96468e-12	1.000000
rad31	2.83698e-12	1.000000	3.35265e-12	1.000000
rad12	2.49140e-12	1.000000	2.94426e-12	1.000000
rad5	1.85471e-13	1.000000	2.19184e-13	1.000000
rad8	7.31865e-21	1.000000	8.64894e-21	1.000000

100.000000 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.12228e-16 (1.00)	2.33829e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.730423	0.730423	0.975320	0.975320
Benzyl+C2H2	0.251094	0.981517	0.000000	0.975320
rad6	0.0122749	0.993792	0.0163905	0.991710
rad23	0.00280927	0.996601	0.00375117	0.995462
rad45	0.000552165	0.997153	0.000737296	0.996199
PAH9+H	0.000498492	0.997652	0.000665627	0.996865
PhCCH+CH3	0.000462803	0.998115	0.000617973	0.997483
Ph+Allene	0.000367827	0.998482	0.000491152	0.997974
PhCHCCH2+H	0.000348878	0.998831	0.000465850	0.998440
rad38	0.000234850	0.999066	0.000313591	0.998753
PhCH2CCH+H	0.000157906	0.999224	0.000210849	0.998964
rad22	0.000130408	0.999354	0.000174131	0.999138
PAH7+H	9.74446e-05	0.999452	0.000130116	0.999268
rad46	7.75014e-05	0.999529	0.000103486	0.999372
rad35	7.52349e-05	0.999605	0.000100460	0.999472
Ph+MeAc	7.42412e-05	0.999679	9.91329e-05	0.999571
rad50	7.24390e-05	0.999751	9.67264e-05	0.999668
PhCCCH3+H	4.98317e-05	0.999801	6.65393e-05	0.999735
rad36	4.07959e-05	0.999842	5.44740e-05	0.999789
rad30	3.85592e-05	0.999881	5.14874e-05	0.999841
rad39	3.79675e-05	0.999919	5.06973e-05	0.999891
rad51	2.18732e-05	0.999940	2.92069e-05	0.999920
rad28	1.05314e-05	0.999951	1.40624e-05	0.999935
rad52	6.37697e-06	0.999957	8.51505e-06	0.999943
rad11	6.08942e-06	0.999963	8.13109e-06	0.999951
rad20	5.67865e-06	0.999969	7.58260e-06	0.999959
rad19anti	4.87568e-06	0.999974	6.51041e-06	0.999965
rad21	4.66760e-06	0.999979	6.23256e-06	0.999971
rad7	4.63511e-06	0.999983	6.18918e-06	0.999978
rad2	2.84734e-06	0.999986	3.80201e-06	0.999981
PAH3+H	2.78891e-06	0.999989	3.72398e-06	0.999985
rad9	1.90389e-06	0.999991	2.54223e-06	0.999988
PAH10+CH3	1.57989e-06	0.999992	2.10960e-06	0.999990
rad18	1.10346e-06	0.999993	1.47344e-06	0.999991
PAH1+H	7.98745e-07	0.999994	1.06655e-06	0.999992
rad71	7.89319e-07	0.999995	1.05396e-06	0.999993
rad37	7.11322e-07	0.999996	9.49815e-07	0.999994
rad65	5.74632e-07	0.999996	7.67296e-07	0.999995
rad73	5.64838e-07	0.999997	7.54218e-07	0.999996
rad1	5.08425e-07	0.999997	6.78891e-07	0.999997
rad60syn	4.79857e-07	0.999998	6.40744e-07	0.999997
rad59	2.87332e-07	0.999998	3.83669e-07	0.999998
rad60anti	2.70207e-07	0.999998	3.60803e-07	0.999998
rad26	2.60462e-07	0.999999	3.47791e-07	0.999998
rad67	1.99617e-07	0.999999	2.66545e-07	0.999999
rad19syn	1.90433e-07	0.999999	2.54282e-07	0.999999
rad3	1.52970e-07	0.999999	2.04258e-07	0.999999
rad4	1.04038e-07	0.999999	1.38920e-07	0.999999
PhcycC3H3_A+H	1.03372e-07	0.999999	1.38031e-07	0.999999
rad70	9.97032e-08	1.000000	1.33132e-07	0.999999
rad10	8.56770e-08	1.000000	1.14403e-07	1.000000
rad54	7.01164e-08	1.000000	9.36252e-08	1.000000
rad13	6.90861e-08	1.000000	9.22494e-08	1.000000
rad34	2.76709e-08	1.000000	3.69484e-08	1.000000

rad58	2.72769e-08	1.000000	3.64223e-08	1.000000
rad24	2.64911e-08	1.000000	3.53731e-08	1.000000
rad72	2.64487e-08	1.000000	3.53165e-08	1.000000
rad64	1.53448e-08	1.000000	2.04896e-08	1.000000
PAH8+H	9.40113e-09	1.000000	1.25532e-08	1.000000
rad62	6.38640e-09	1.000000	8.52764e-09	1.000000
rad55	4.94384e-09	1.000000	6.60143e-09	1.000000
rad61	3.56629e-09	1.000000	4.76200e-09	1.000000
rad68syn	2.61666e-09	1.000000	3.49398e-09	1.000000
rad43	2.49471e-09	1.000000	3.33114e-09	1.000000
rad68anti	1.69857e-09	1.000000	2.26806e-09	1.000000
rad56	1.64977e-09	1.000000	2.20291e-09	1.000000
rad53	1.48248e-09	1.000000	1.97952e-09	1.000000
rad40syn	1.07225e-09	1.000000	1.43175e-09	1.000000
rad33	9.66385e-10	1.000000	1.29040e-09	1.000000
rad15	7.03169e-10	1.000000	9.38929e-10	1.000000
rad40anti	6.53028e-10	1.000000	8.71977e-10	1.000000
rad42	6.10729e-10	1.000000	8.15496e-10	1.000000
rad25	3.65120e-10	1.000000	4.87539e-10	1.000000
rad41	1.84096e-10	1.000000	2.45820e-10	1.000000
rad12	4.60402e-11	1.000000	6.14766e-11	1.000000
rad14	3.38464e-11	1.000000	4.51945e-11	1.000000
rad47	2.02932e-11	1.000000	2.70972e-11	1.000000
rad27	8.03404e-12	1.000000	1.07277e-11	1.000000
rad31	5.60352e-12	1.000000	7.48228e-12	1.000000
rad5	2.47281e-13	1.000000	3.30189e-13	1.000000
rad8	6.31321e-17	1.000000	8.42992e-17	1.000000

100.000000 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.21769e-16 (1.00)	5.92688e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.627663	0.627663	0.976163	0.976163
Benzyl+C2H2	0.357010	0.984673	0.000000	0.976163
rad6	0.00955612	0.994229	0.0148620	0.991025
PhCCH+CH3	0.000986615	0.995216	0.00153442	0.992559
rad23	0.000964223	0.996180	0.00149959	0.994059
Ph+Allene	0.000907569	0.997088	0.00141148	0.995470
PhCHCCH2+H	0.000760102	0.997848	0.00118214	0.996653
PAH9+H	0.000474702	0.998322	0.000738274	0.997391
PhCH2CCH+H	0.000351190	0.998674	0.000546183	0.997937
rad45	0.000247459	0.998921	0.000384857	0.998322
rad38	0.00023692	0.999145	0.000347893	0.998670
Ph+MeAc	0.000148696	0.999293	0.000231258	0.998901
PAH7+H	0.000135540	0.999429	0.000210797	0.999112
PhCCCH3+H	8.84916e-05	0.999517	0.000137625	0.999250
rad46	7.46988e-05	0.999592	0.000116174	0.999366
rad50	7.33933e-05	0.999665	0.000114144	0.999480
rad35	7.17951e-05	0.999737	0.000111658	0.999591
rad30	6.31922e-05	0.999800	9.82787e-05	0.999690
rad39	4.77413e-05	0.999848	7.42489e-05	0.999764
rad22	3.71296e-05	0.999885	5.77452e-05	0.999822
rad51	2.27892e-05	0.999908	3.54425e-05	0.999857
rad36	2.02672e-05	0.999928	3.15203e-05	0.999889
rad28	1.05870e-05	0.999939	1.64652e-05	0.999905
rad20	9.19097e-06	0.999948	1.42941e-05	0.999919
rad19anti	8.99971e-06	0.999957	1.39967e-05	0.999933
rad21	7.18170e-06	0.999964	1.11692e-05	0.999945
rad52	6.55002e-06	0.999971	1.01868e-05	0.999955
rad7	4.85044e-06	0.999976	7.54357e-06	0.999962
rad11	4.64288e-06	0.999980	7.22076e-06	0.999970
PAH3+H	4.01789e-06	0.999984	6.24876e-06	0.999976
rad9	2.98721e-06	0.999987	4.64582e-06	0.999980
rad2	2.10218e-06	0.999990	3.26938e-06	0.999984
PAH10+CH3	1.68990e-06	0.999991	2.62818e-06	0.999986
rad18	1.00364e-06	0.999992	1.56089e-06	0.999988
rad60syn	9.56121e-07	0.999993	1.48699e-06	0.999989
rad71	8.71242e-07	0.999994	1.35499e-06	0.999991
PAH1+H	8.54754e-07	0.999995	1.32934e-06	0.999992
rad37	7.95797e-07	0.999996	1.23765e-06	0.999993
rad73	6.17295e-07	0.999996	9.60039e-07	0.999994
rad65	5.96038e-07	0.999997	9.26979e-07	0.999995
rad60anti	5.34251e-07	0.999997	8.30886e-07	0.999996
rad59	4.58899e-07	0.999998	7.13695e-07	0.999997
rad1	4.05143e-07	0.999998	6.30092e-07	0.999997
rad19syn	3.11466e-07	0.999999	4.84402e-07	0.999998

rad26	2.41857e-07	0.999999	3.76144e-07	0.999998
rad67	2.26042e-07	0.999999	3.51548e-07	0.999999
rad13	1.77777e-07	0.999999	2.76485e-07	0.999999
rad3	1.21860e-07	0.999999	1.89522e-07	0.999999
PhcycC3H3_A+H	1.16968e-07	0.999999	1.81913e-07	0.999999
rad70	1.08852e-07	1.000000	1.69290e-07	0.999999
rad54	1.00331e-07	1.000000	1.56039e-07	1.000000
rad4	8.74356e-08	1.000000	1.35983e-07	1.000000
rad10	7.49809e-08	1.000000	1.16613e-07	1.000000
rad24	5.38813e-08	1.000000	8.37981e-08	1.000000
rad34	2.99668e-08	1.000000	4.66055e-08	1.000000
rad58	2.98093e-08	1.000000	4.63604e-08	1.000000
rad72	2.97145e-08	1.000000	4.62129e-08	1.000000
rad64	1.65160e-08	1.000000	2.56863e-08	1.000000
PAH8+H	1.05430e-08	1.000000	1.63968e-08	1.000000
rad62	7.98753e-09	1.000000	1.24225e-08	1.000000
rad55	6.06006e-09	1.000000	9.42481e-09	1.000000
rad33	5.42165e-09	1.000000	8.43194e-09	1.000000
rad43	4.62687e-09	1.000000	7.19587e-09	1.000000
rad61	3.91495e-09	1.000000	6.08866e-09	1.000000
rad68syn	2.87293e-09	1.000000	4.46808e-09	1.000000
rad68anti	1.86443e-09	1.000000	2.89963e-09	1.000000
rad56	1.73866e-09	1.000000	2.70402e-09	1.000000
rad53	1.55471e-09	1.000000	2.41794e-09	1.000000
rad40syn	1.20304e-09	1.000000	1.87102e-09	1.000000
rad15	8.60739e-10	1.000000	1.33865e-09	1.000000
rad40anti	7.40231e-10	1.000000	1.15123e-09	1.000000
rad42	7.07062e-10	1.000000	1.09965e-09	1.000000
rad25	6.57841e-10	1.000000	1.02310e-09	1.000000
rad41	3.37286e-10	1.000000	5.24559e-10	1.000000
rad12	2.88793e-10	1.000000	4.49142e-10	1.000000
rad14	8.24716e-11	1.000000	1.28263e-10	1.000000
rad27	2.74939e-11	1.000000	4.27594e-11	1.000000
rad47	2.56400e-11	1.000000	3.98762e-11	1.000000
rad31	7.51770e-12	1.000000	1.16918e-11	1.000000
rad5	2.72175e-13	1.000000	4.23296e-13	1.000000
rad8	4.91865e-14	1.000000	7.64966e-14	1.000000

100.000000 Pa, 1000.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.23691e-15 (1.00)	1.20913e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.527330	0.527330	0.975574	0.975574
Benzyl+C2H2	0.459467	0.986797	0.000000	0.975574
rad6	0.00589422	0.992691	0.0109045	0.986479
Ph+Allene	0.00181835	0.994510	0.00336400	0.989843
PhCCH+CH3	0.00150868	0.996018	0.00279110	0.992634
PhCHCCH2+H	0.00130410	0.997322	0.00241262	0.995046
PhCH2CCH+H	0.000728430	0.998051	0.00134762	0.996394
rad23	0.000392015	0.998443	0.000725238	0.997119
PAH9+H	0.000353476	0.998796	0.000653940	0.997773
Ph+MeAc	0.000215252	0.999012	0.000398223	0.998171
PAH7+H	0.000166191	0.999178	0.000307459	0.998479
rad38	0.000163017	0.999341	0.000301586	0.998780
rad45	0.000126045	0.999467	0.000233187	0.999013
PhCCCH3+H	0.000112970	0.999580	0.000208997	0.999222
rad30	9.20681e-05	0.999672	0.000170328	0.999393
rad35	5.59727e-05	0.999728	0.000103551	0.999496
rad46	5.22662e-05	0.999780	9.66938e-05	0.999593
rad50	5.01909e-05	0.999830	9.28545e-05	0.999686
rad39	4.94678e-05	0.999880	9.15168e-05	0.999777
rad19anti	1.65570e-05	0.999896	3.06309e-05	0.999808
rad51	1.56748e-05	0.999912	2.89988e-05	0.999837
rad22	1.46512e-05	0.999927	2.71052e-05	0.999864
rad20	1.10767e-05	0.999938	2.04921e-05	0.999885
rad36	1.08719e-05	0.999949	2.01132e-05	0.999905
rad21	7.74521e-06	0.999956	1.43288e-05	0.999919
rad28	7.63349e-06	0.999964	1.41222e-05	0.999933
PAH3+H	6.28461e-06	0.999970	1.16267e-05	0.999945
rad11	5.07982e-06	0.999975	9.39780e-06	0.999954
rad7	4.97021e-06	0.999980	9.19502e-06	0.999963
rad52	4.48776e-06	0.999985	8.30249e-06	0.999972
rad9	3.00022e-06	0.999988	5.55050e-06	0.999977
rad60syn	1.76485e-06	0.999990	3.26501e-06	0.999981
rad2	1.32415e-06	0.999991	2.44972e-06	0.999983
PAH10+CH3	1.19906e-06	0.999992	2.21830e-06	0.999985

rad18	1.01708e-06	0.999993	1.88162e-06	0.999987
rad60anti	9.91635e-07	0.999994	1.83455e-06	0.999989
rad59	7.92828e-07	0.999995	1.46675e-06	0.999990
rad37	6.69770e-07	0.999996	1.23909e-06	0.999992
rad71	6.11953e-07	0.999996	1.13213e-06	0.999993
PAH1+H	6.03288e-07	0.999997	1.11610e-06	0.999994
rad19syn	5.75695e-07	0.999997	1.06505e-06	0.999995
rad13	4.70486e-07	0.999998	8.70412e-07	0.999996
rad73	4.31894e-07	0.999998	7.99015e-07	0.999997
rad65	4.0373e-07	0.999999	7.57352e-07	0.999997
rad1	2.80926e-07	0.999999	5.19720e-07	0.999998
rad67	2.30262e-07	0.999999	4.25991e-07	0.999998
rad26	1.77452e-07	0.999999	3.28291e-07	0.999999
rad54	1.69093e-07	0.999999	3.12826e-07	0.999999
PhcycC3H3_A+H	1.30935e-07	1.000000	2.42234e-07	0.999999
rad70	8.66363e-08	1.000000	1.60279e-07	0.999999
rad3	8.48221e-08	1.000000	1.56923e-07	1.000000
rad10	8.32614e-08	1.000000	1.54036e-07	1.000000
rad4	6.32734e-08	1.000000	1.17058e-07	1.000000
rad24	5.66742e-08	1.000000	1.04849e-07	1.000000
rad58	2.64350e-08	1.000000	4.89054e-08	1.000000
rad34	2.21825e-08	1.000000	4.10382e-08	1.000000
rad72	2.10188e-08	1.000000	3.88854e-08	1.000000
rad33	1.59923e-08	1.000000	2.95862e-08	1.000000
rad64	1.15417e-08	1.000000	2.13524e-08	1.000000
rad55	8.31965e-09	1.000000	1.53916e-08	1.000000
rad62	7.94525e-09	1.000000	1.46989e-08	1.000000
PAH8+H	7.51600e-09	1.000000	1.39048e-08	1.000000
rad43	5.20759e-09	1.000000	9.63418e-09	1.000000
rad61	2.77582e-09	1.000000	5.13534e-09	1.000000
rad68syn	2.02276e-09	1.000000	3.74215e-09	1.000000
rad25	1.55520e-09	1.000000	2.87716e-09	1.000000
rad68anti	1.31275e-09	1.000000	2.42863e-09	1.000000
rad56	1.25089e-09	1.000000	2.31418e-09	1.000000
rad53	1.21002e-09	1.000000	2.23857e-09	1.000000
rad15	9.93395e-10	1.000000	1.83781e-09	1.000000
rad40syn	8.63110e-10	1.000000	1.59678e-09	1.000000
rad12	7.17396e-10	1.000000	1.32720e-09	1.000000
rad42	5.48542e-10	1.000000	1.01482e-09	1.000000
rad40anti	5.37132e-10	1.000000	9.93709e-10	1.000000
rad41	3.63608e-10	1.000000	6.72685e-10	1.000000
rad14	1.95529e-10	1.000000	3.61734e-10	1.000000
rad27	8.73101e-11	1.000000	1.61526e-10	1.000000
rad47	1.79548e-11	1.000000	3.32168e-11	1.000000
rad31	7.79552e-12	1.000000	1.44219e-11	1.000000
rad8	3.19809e-12	1.000000	5.91655e-12	1.000000
rad5	2.85692e-13	1.000000	5.28537e-13	1.000000

100.000000 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.11225e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.550438	0.550438	0.00000	0.00000
Indene+H	0.436822	0.987260	0.971662	0.971662
rad6	0.00302740	0.990287	0.00673412	0.978396
Ph+Allene	0.00302391	0.993311	0.00672635	0.985122
PhCHCCH2+H	0.00188449	0.995196	0.00419184	0.989314
PhCCH+CH3	0.00183256	0.997028	0.00407632	0.993391
PhCH2CCH+H	0.00135549	0.998384	0.00301515	0.996406
PAH9+H	0.000275745	0.998660	0.000613363	0.997019
Ph+MeAc	0.000252641	0.998912	0.000561972	0.997581
PAH7+H	0.000202489	0.999115	0.000450415	0.998032
rad23	0.000179251	0.999294	0.000398724	0.998430
rad30	0.000123456	0.999417	0.000274614	0.998705
rad38	0.000121986	0.999539	0.000271345	0.998976
PhCCCH3+H	0.000114390	0.999654	0.000254447	0.999231
rad45	6.69985e-05	0.999721	0.000149031	0.999380
rad39	5.21500e-05	0.999773	0.000116002	0.999496
rad35	4.71763e-05	0.999820	0.000104938	0.999601
rad46	3.56022e-05	0.999856	7.91931e-05	0.999680
rad50	3.04007e-05	0.999886	6.76230e-05	0.999747
rad19anti	2.96971e-05	0.999916	6.60579e-05	0.999814
PAH3+H	1.18821e-05	0.999928	2.64305e-05	0.999840
rad51	9.33561e-06	0.999937	2.07660e-05	0.999861
rad20	8.98256e-06	0.999946	1.99807e-05	0.999881
rad22	6.67397e-06	0.999953	1.48455e-05	0.999896

rad11	6.34299e-06	0.999959	1.41093e-05	0.999910
rad36	5.92583e-06	0.999965	1.31813e-05	0.999923
rad21	5.66081e-06	0.999971	1.25918e-05	0.999935
rad7	5.18750e-06	0.999976	1.15390e-05	0.999947
rad28	4.43309e-06	0.999980	9.86091e-06	0.999957
rad60syn	3.60633e-06	0.999983	6.80737e-06	0.999964
rad52	2.68680e-06	0.999986	5.97649e-06	0.999970
rad9	2.65668e-06	0.999989	5.90949e-06	0.999976
rad60anti	1.74405e-06	0.999990	3.87944e-06	0.999979
rad59	1.52064e-06	0.999992	3.38249e-06	0.999983
rad19syn	1.11324e-06	0.999993	2.47629e-06	0.999985
rad18	1.06363e-06	0.999994	2.36592e-06	0.999988
rad13	8.57437e-07	0.999995	1.90727e-06	0.999990
PAH10+CH3	7.52878e-07	0.999996	1.67469e-06	0.999991
rad2	7.37381e-07	0.999996	1.64022e-06	0.999993
rad37	5.63610e-07	0.999997	1.25369e-06	0.999994
PAH1+H	3.86340e-07	0.999997	8.59369e-07	0.999995
rad71	3.64740e-07	0.999998	8.11322e-07	0.999996
rad54	3.31946e-07	0.999998	7.38376e-07	0.999996
rad67	2.96195e-07	0.999998	6.58853e-07	0.999997
rad73	2.57083e-07	0.999999	5.71853e-07	0.999998
rad65	2.44070e-07	0.999999	5.42906e-07	0.999998
PhcycC3H3_A+H	2.17447e-07	0.999999	4.83687e-07	0.999999
rad1	1.65464e-07	0.999999	3.68056e-07	0.999999
rad26	1.12322e-07	0.999999	2.49847e-07	0.999999
rad10	1.08347e-07	0.999999	2.41007e-07	1.000000
rad70	8.13638e-08	1.000000	1.80985e-07	1.000000
rad3	5.09584e-08	1.000000	1.13351e-07	1.000000
rad24	4.45617e-08	1.000000	9.91224e-08	1.000000
rad4	3.88028e-08	1.000000	8.63125e-08	1.000000
rad58	3.50306e-08	1.000000	7.79217e-08	1.000000
rad33	2.15458e-08	1.000000	4.79262e-08	1.000000
rad34	1.72933e-08	1.000000	3.84669e-08	1.000000
rad55	1.56188e-08	1.000000	3.47422e-08	1.000000
rad72	1.25601e-08	1.000000	2.79385e-08	1.000000
rad62	9.10377e-09	1.000000	2.02503e-08	1.000000
rad64	7.05243e-09	1.000000	1.56873e-08	1.000000
PAH8+H	4.55500e-09	1.000000	1.01321e-08	1.000000
rad43	4.45558e-09	1.000000	9.91093e-09	1.000000
rad25	2.75153e-09	1.000000	6.12048e-09	1.000000
rad61	1.68683e-09	1.000000	3.75217e-09	1.000000
rad15	1.36648e-09	1.000000	3.03959e-09	1.000000
rad53	1.24725e-09	1.000000	2.77437e-09	1.000000
rad68syn	1.24720e-09	1.000000	2.77425e-09	1.000000
rad12	1.14562e-09	1.000000	2.54830e-09	1.000000
rad56	9.77391e-10	1.000000	2.17410e-09	1.000000
rad68anti	8.10156e-10	1.000000	1.80210e-09	1.000000
rad40syn	5.27968e-10	1.000000	1.17441e-09	1.000000
rad42	4.17974e-10	1.000000	9.29736e-10	1.000000
rad40anti	3.29866e-10	1.000000	7.33751e-10	1.000000
rad14	3.07624e-10	1.000000	6.84274e-10	1.000000
rad41	2.70879e-10	1.000000	6.02540e-10	1.000000
rad27	1.38085e-10	1.000000	3.07154e-10	1.000000
rad8	3.12143e-11	1.000000	6.94327e-11	1.000000
rad47	1.02846e-11	1.000000	2.28769e-11	1.000000
rad31	6.61730e-12	1.000000	1.47194e-11	1.000000
rad5	3.04262e-13	1.000000	6.76796e-13	1.000000

100.000000 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.84330e-15 (1.00)	3.30221e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.626586	0.626586	0.00000	0.00000
Indene+H	0.359555	0.986141	0.962885	0.962885
Ph+Allene	0.00434340	0.990484	0.0116316	0.974517
PhCHCCH2+H	0.00241836	0.992903	0.00647635	0.980993
PhCH2CCH+H	0.00224761	0.995150	0.00601910	0.987012
PhCCH+CH3	0.00190898	0.997059	0.00511224	0.992124
rad6	0.00141648	0.998476	0.00379334	0.995918
Ph+MeAc	0.000259402	0.998735	0.000694678	0.996612
PAH9+H	0.000257028	0.998992	0.000688320	0.997301
PAH7+H	0.000236799	0.999229	0.000634146	0.997935
rad30	0.000155618	0.999385	0.000416744	0.998352
rad38	0.000108902	0.999494	0.000291638	0.998643
PhCCCH3+H	9.91129e-05	0.999593	0.000265424	0.998909
rad23	8.99378e-05	0.999683	0.000240853	0.999149

rad39	5.52122e-05	0.999738	0.000147858	0.999297
rad19anti	5.00773e-05	0.999788	0.000134107	0.999431
rad35	4.71863e-05	0.999835	0.000126365	0.999558
rad45	3.61744e-05	0.999871	9.68750e-05	0.999655
rad46	2.84422e-05	0.999900	7.61680e-05	0.999731
PAH3+H	2.26878e-05	0.999922	6.07577e-05	0.999792
rad50	1.90051e-05	0.999941	5.08956e-05	0.999842
rad11	7.16532e-06	0.999949	1.91887e-05	0.999862
rad20	5.62455e-06	0.999954	1.50625e-05	0.999877
rad51	5.45286e-06	0.999960	1.46027e-05	0.999891
rad7	5.36936e-06	0.999965	1.43791e-05	0.999906
rad60syn	4.91281e-06	0.999970	1.31565e-05	0.999919
rad22	3.38728e-06	0.999973	9.07111e-06	0.999928
rad21	3.35785e-06	0.999977	8.99229e-06	0.999937
rad36	3.24975e-06	0.999980	8.70281e-06	0.999946
rad60anti	2.84286e-06	0.999983	7.61317e-06	0.999953
rad59	2.82110e-06	0.999986	7.55490e-06	0.999961
rad9	2.32936e-06	0.999988	6.23801e-06	0.999967
rad28	2.32916e-06	0.999990	6.23748e-06	0.999973
rad19syn	1.96111e-06	0.999992	5.25183e-06	0.999979
rad52	1.61112e-06	0.999994	4.31456e-06	0.999983
rad18	1.13781e-06	0.999995	3.04704e-06	0.999986
rad13	8.79218e-07	0.999996	2.35454e-06	0.999988
rad54	6.14774e-07	0.999996	1.64636e-06	0.999990
rad37	5.25079e-07	0.999997	1.40616e-06	0.999991
PAH10+CH3	4.92712e-07	0.999997	1.31948e-06	0.999993
rad67	4.72148e-07	0.999998	1.26441e-06	0.999994
PhcycC3H3_A+H	4.24235e-07	0.999998	1.13610e-06	0.999995
rad2	3.57094e-07	0.999999	9.56296e-07	0.999996
PAH1+H	2.79323e-07	0.999999	7.48026e-07	0.999997
rad71	2.05914e-07	0.999999	5.51436e-07	0.999997
rad73	1.45267e-07	0.999999	3.89023e-07	0.999998
rad65	1.43631e-07	1.000000	3.84644e-07	0.999998
rad10	1.23935e-07	1.000000	3.31897e-07	0.999998
rad70	1.09529e-07	1.000000	2.93318e-07	0.999999
rad1	8.24767e-08	1.000000	2.20872e-07	0.999999
rad58	7.05731e-08	1.000000	1.88994e-07	0.999999
rad26	6.65742e-08	1.000000	1.78285e-07	0.999999
rad24	3.29228e-08	1.000000	8.81671e-08	0.999999
rad55	3.03363e-08	1.000000	8.12405e-08	0.999999
rad3	2.66604e-08	1.000000	7.13964e-08	0.999999
rad4	2.05383e-08	1.000000	5.50014e-08	1.000000
rad34	1.95137e-08	1.000000	5.22576e-08	1.000000
rad33	1.74838e-08	1.000000	4.68216e-08	1.000000
rad62	1.21286e-08	1.000000	3.24804e-08	1.000000
rad72	7.09018e-09	1.000000	1.89875e-08	1.000000
rad64	4.49858e-09	1.000000	1.20472e-08	1.000000
rad43	3.65005e-09	1.000000	9.77482e-09	1.000000
rad25	3.03829e-09	1.000000	8.13652e-09	1.000000
PAH8+H	2.71249e-09	1.000000	7.26402e-09	1.000000
rad15	2.46621e-09	1.000000	6.60451e-09	1.000000
rad53	2.15047e-09	1.000000	5.75894e-09	1.000000
rad12	1.49797e-09	1.000000	4.01155e-09	1.000000
rad56	1.29622e-09	1.000000	3.47126e-09	1.000000
rad61	9.86398e-10	1.000000	2.64157e-09	1.000000
rad68syn	8.44300e-10	1.000000	2.26103e-09	1.000000
rad68anti	5.50579e-10	1.000000	1.47445e-09	1.000000
rad42	4.11140e-10	1.000000	1.10103e-09	1.000000
rad40syn	3.24231e-10	1.000000	8.68288e-10	1.000000
rad14	2.89542e-10	1.000000	7.75391e-10	1.000000
rad40anti	1.99165e-10	1.000000	5.33364e-10	1.000000
rad41	1.71348e-10	1.000000	4.58870e-10	1.000000
rad27	1.12379e-10	1.000000	3.00951e-10	1.000000
rad8	1.00962e-10	1.000000	2.70375e-10	1.000000
rad47	5.63787e-12	1.000000	1.50982e-11	1.000000
rad31	4.87640e-12	1.000000	1.30590e-11	1.000000
rad5	3.43911e-13	1.000000	9.20992e-13	1.000000

100.000000 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.52810e-14 (1.00)	4.76805e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.687975	0.687975	0.00000	0.00000
Indene+H	0.296074	0.984049	0.948879	0.948879
Ph+Allene	0.00560889	0.989658	0.0179758	0.966855
PhCH2CCH+H	0.00340254	0.993060	0.0109047	0.977760

PhCHCCH2+H	0.00287629	0.995937	0.00921816	0.986978
PhCCH+CH3	0.00180360	0.997740	0.00578032	0.992758
rad6	0.000688563	0.998429	0.00220676	0.994965
PAH9+H	0.000281939	0.998711	0.000903580	0.995868
PAH7+H	0.000262682	0.998974	0.000841862	0.996710
Ph+MeAc	0.000245930	0.999219	0.000788175	0.997498
rad30	0.000187304	0.999407	0.000600286	0.998099
rad38	0.000116759	0.999523	0.000374198	0.998473
rad19anti	7.90998e-05	0.999603	0.000253505	0.998726
PhCCCH3+H	7.82863e-05	0.999681	0.000250898	0.998977
rad39	5.70402e-05	0.999738	0.000182807	0.999160
rad35	5.36749e-05	0.999792	0.000172021	0.999332
rad23	5.02799e-05	0.999842	0.000161141	0.999493
PAH3+H	4.05320e-05	0.999882	0.000129900	0.999623
rad46	2.87687e-05	0.999911	9.22002e-05	0.999715
rad45	1.97866e-05	0.999931	6.34134e-05	0.999779
rad50	1.44368e-05	0.999945	4.62683e-05	0.999825
rad60syn	7.34480e-06	0.999953	2.35392e-05	0.999849
rad11	6.20817e-06	0.999959	1.98964e-05	0.999868
rad7	4.99862e-06	0.999964	1.60200e-05	0.999884
rad59	4.84895e-06	0.999969	1.55403e-05	0.999900
rad60anti	4.31028e-06	0.999973	1.38139e-05	0.999914
rad51	3.53557e-06	0.999977	1.13310e-05	0.999925
rad20	3.32146e-06	0.999980	1.06448e-05	0.999936
rad19syn	3.08814e-06	0.999983	9.89711e-06	0.999946
rad22	2.09424e-06	0.999985	6.71179e-06	0.999952
rad9	1.96544e-06	0.999987	6.29900e-06	0.999959
rad21	1.94722e-06	0.999989	6.24059e-06	0.999965
rad36	1.79999e-06	0.999991	5.76875e-06	0.999971
rad28	1.25039e-06	0.999992	4.00735e-06	0.999975
rad52	1.12152e-06	0.999993	3.59432e-06	0.999978
rad18	1.05124e-06	0.999994	3.36910e-06	0.999982
rad54	1.01805e-06	0.999995	3.26271e-06	0.999985
rad67	8.74807e-07	0.999996	2.80365e-06	0.999988
PhcycC3H3_A+H	7.85493e-07	0.999997	2.51740e-06	0.999990
rad13	5.96805e-07	0.999998	1.91268e-06	0.999992
rad37	5.57643e-07	0.999998	1.78718e-06	0.999994
PAH10+CH3	4.05168e-07	0.999999	1.29851e-06	0.999995
PAH1+H	2.70371e-07	0.999999	8.66506e-07	0.999996
rad70	1.76928e-07	0.999999	5.67031e-07	0.999997
rad2	1.54030e-07	0.999999	4.93648e-07	0.999997
rad58	1.52976e-07	0.999999	4.90270e-07	0.999998
rad71	1.16036e-07	0.999999	3.71881e-07	0.999998
rad10	1.02112e-07	0.999999	3.27255e-07	0.999998
rad65	9.55054e-08	1.000000	3.06083e-07	0.999999
rad73	8.25770e-08	1.000000	2.64649e-07	0.999999
rad55	5.35804e-08	1.000000	1.71719e-07	0.999999
rad26	3.94489e-08	1.000000	1.26429e-07	0.999999
rad1	3.61734e-08	1.000000	1.15931e-07	0.999999
rad34	3.04810e-08	1.000000	9.76879e-08	0.999999
rad24	2.42278e-08	1.000000	7.76469e-08	1.000000
rad62	1.66122e-08	1.000000	5.32401e-08	1.000000
rad3	1.27040e-08	1.000000	4.07147e-08	1.000000
rad33	1.15946e-08	1.000000	3.71593e-08	1.000000
rad4	9.86638e-09	1.000000	3.16205e-08	1.000000
rad15	5.45173e-09	1.000000	1.74721e-08	1.000000
rad53	4.40313e-09	1.000000	1.41115e-08	1.000000
rad72	3.96408e-09	1.000000	1.27044e-08	1.000000
rad64	3.65366e-09	1.000000	1.17095e-08	1.000000
rad43	3.33942e-09	1.000000	1.07024e-08	1.000000
rad56	2.59392e-09	1.000000	8.31319e-09	1.000000
rad25	2.44836e-09	1.000000	7.84667e-09	1.000000
PAH8+H	1.96854e-09	1.000000	6.30893e-09	1.000000
rad12	1.75110e-09	1.000000	5.61207e-09	1.000000
rad68syn	8.59054e-10	1.000000	2.75316e-09	1.000000
rad61	6.16549e-10	1.000000	1.97596e-09	1.000000
rad68anti	5.64158e-10	1.000000	1.80806e-09	1.000000
rad42	5.35707e-10	1.000000	1.71687e-09	1.000000
rad40syn	2.60609e-10	1.000000	8.35220e-10	1.000000
rad8	1.92162e-10	1.000000	6.15855e-10	1.000000
rad14	1.90004e-10	1.000000	6.08939e-10	1.000000
rad40anti	1.50781e-10	1.000000	4.83235e-10	1.000000
rad41	1.18563e-10	1.000000	3.79979e-10	1.000000
rad27	6.21249e-11	1.000000	1.99102e-10	1.000000
rad47	3.33941e-12	1.000000	1.07024e-11	1.000000
rad31	3.30618e-12	1.000000	1.05959e-11	1.000000
rad5	4.21434e-13	1.000000	1.35064e-12	1.000000

100.000000 Pa, 1400.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	2.46691e-14 (1.00)		6.50377e-15 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.736360	0.736360	0.00000	0.00000
Indene+H	0.245141	0.981501	0.929832	0.929832
Ph+Allene	0.00671439	0.988215	0.0254680	0.955300
PhCH2CCH+H	0.00481831	0.993034	0.0182761	0.973576
PhCHCCH2+H	0.00326759	0.996301	0.0123942	0.985970
PhCCH+CH3	0.00160605	0.997907	0.00609184	0.992062
rad6	0.000381892	0.998289	0.00144854	0.993511
PAH9+H	0.000335636	0.998625	0.00127308	0.994784
PAH7+H	0.000279717	0.998905	0.00106098	0.995845
Ph+MeAc	0.000223575	0.999128	0.000848032	0.996693
rad30	0.000217750	0.999346	0.000825938	0.997519
rad38	0.000138682	0.999485	0.000526028	0.998045
rad19anti	0.000117428	0.999602	0.000445412	0.998490
PAH3+H	6.72170e-05	0.999669	0.000254958	0.998745
rad35	6.45198e-05	0.999734	0.000244727	0.998990
PhCCCH3+H	5.94033e-05	0.999793	0.000225320	0.999215
rad39	5.74595e-05	0.999851	0.000217947	0.999433
rad46	3.44813e-05	0.999885	0.000130790	0.999564
rad23	3.18436e-05	0.999917	0.000120784	0.999685
rad50	1.50263e-05	0.999932	5.69957e-05	0.999742
rad45	1.10087e-05	0.999943	4.17566e-05	0.999783
rad60syn	1.03482e-05	0.999953	3.92512e-05	0.999823
rad59	7.73577e-06	0.999961	2.93422e-05	0.999852
rad60anti	6.14878e-06	0.999967	2.33226e-05	0.999875
rad19syn	4.42343e-06	0.999972	1.67783e-05	0.999892
rad11	4.13977e-06	0.999976	1.57024e-05	0.999908
rad7	3.74941e-06	0.999980	1.42217e-05	0.999922
rad51	3.05333e-06	0.999983	1.15814e-05	0.999934
rad20	2.01391e-06	0.999985	7.63887e-06	0.999941
rad67	1.67715e-06	0.999986	6.36152e-06	0.999948
rad22	1.60687e-06	0.999988	6.09495e-06	0.999954
rad9	1.59399e-06	0.999989	6.04609e-06	0.999960
rad54	1.52325e-06	0.999991	5.77775e-06	0.999966
PhcycC3H3_A+H	1.32100e-06	0.999992	5.01061e-06	0.999971
rad21	1.17007e-06	0.999993	4.43815e-06	0.999975
rad52	1.06979e-06	0.999995	4.05777e-06	0.999979
rad36	1.01320e-06	0.999996	3.84313e-06	0.999983
rad18	7.65280e-07	0.999996	2.90275e-06	0.999986
rad28	7.46507e-07	0.999997	2.83154e-06	0.999989
rad37	6.68623e-07	0.999998	2.53612e-06	0.999991
PAH10+CH3	4.81482e-07	0.999998	1.82629e-06	0.999993
rad13	3.43349e-07	0.999999	1.30234e-06	0.999994
PAH1+H	3.43009e-07	0.999999	1.30105e-06	0.999996
rad58	3.10080e-07	0.999999	1.17615e-06	0.999997
rad70	2.87573e-07	1.000000	1.09078e-06	0.999998
rad65	8.63871e-08	1.000000	3.27671e-07	0.999998
rad55	8.52981e-08	1.000000	3.23540e-07	0.999999
rad71	7.01259e-08	1.000000	2.65991e-07	0.999999
rad2	6.22755e-08	1.000000	2.36214e-07	0.999999
rad10	5.92807e-08	1.000000	2.24855e-07	0.999999
rad34	5.18879e-08	1.000000	1.96813e-07	0.999999
rad73	5.18867e-08	1.000000	1.96809e-07	1.000000
rad26	2.40708e-08	1.00000	9.13018e-08	1.000000
rad62	2.19350e-08	1.00000	8.32005e-08	1.000000
rad24	1.79284e-08	1.00000	6.80035e-08	1.000000
rad1	1.47972e-08	1.00000	5.61265e-08	1.000000
rad15	1.08675e-08	1.00000	4.12211e-08	1.000000
rad53	8.59010e-09	1.00000	3.25827e-08	1.00000
rad33	7.25418e-09	1.00000	2.75155e-08	1.00000
rad3	5.82874e-09	1.00000	2.21087e-08	1.00000
rad56	5.48376e-09	1.00000	2.08002e-08	1.00000
rad4	4.55691e-09	1.00000	1.72846e-08	1.00000
rad64	4.24552e-09	1.00000	1.61035e-08	1.00000
rad43	3.52637e-09	1.00000	1.33757e-08	1.00000
PAH8+H	2.43171e-09	1.00000	9.22361e-09	1.00000
rad72	2.29158e-09	1.00000	8.69208e-09	1.00000
rad12	1.90814e-09	1.00000	7.23767e-09	1.00000
rad25	1.76534e-09	1.00000	6.69602e-09	1.00000
rad68syn	1.40153e-09	1.00000	5.31607e-09	1.00000
rad68anti	9.23328e-10	1.00000	3.50223e-09	1.00000
rad42	7.78473e-10	1.00000	2.95279e-09	1.00000
rad61	5.17091e-10	1.00000	1.96135e-09	1.00000
rad40syn	3.61647e-10	1.00000	1.37175e-09	1.00000
rad8	2.82317e-10	1.00000	1.07084e-09	1.00000

rad40anti	1.96465e-10	1.00000	7.45200e-10	1.00000
rad41	1.14666e-10	1.00000	4.34934e-10	1.00000
rad14	1.08992e-10	1.00000	4.13411e-10	1.00000
rad27	3.01378e-11	1.00000	1.14314e-10	1.00000
rad47	2.56982e-12	1.00000	9.74745e-12	1.00000
rad31	2.16205e-12	1.00000	8.20076e-12	1.00000
rad5	5.47680e-13	1.00000	2.07738e-12	1.00000

100.000000 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.51869e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.773985	0.773985	0.00000	0.00000
Indene+H	0.204738	0.978723	0.905862	0.905862
Ph+Allene	0.00761397	0.986337	0.0336879	0.939550
PhCH2CCH+H	0.00649714	0.992834	0.0287465	0.968296
PhCHCCH2+H	0.00361845	0.996453	0.0160098	0.984306
PhCCH+CH3	0.00138053	0.997833	0.00610816	0.990414
PAH9+H	0.000407972	0.998241	0.00180506	0.992219
PAH7+H	0.000290880	0.998532	0.00128699	0.993506
rad30	0.000246530	0.998778	0.00109077	0.994597
rad6	0.000241257	0.999020	0.00106744	0.995665
Ph+MeAc	0.000199929	0.999220	0.000884582	0.996549
rad38	0.000169992	0.999390	0.000752129	0.997301
rad19anti	0.000164770	0.999554	0.000729023	0.998030
PAH3+H	0.000104362	0.999659	0.000461748	0.998492
rad35	7.83290e-05	0.999737	0.000346565	0.998839
rad39	5.72487e-05	0.999794	0.000253296	0.999092
PhCCCH3+H	4.51988e-05	0.999840	0.000199981	0.999292
rad46	4.41832e-05	0.999884	0.000195488	0.999487
rad23	2.26483e-05	0.999906	0.000100207	0.999588
rad50	1.99685e-05	0.999926	8.83503e-05	0.999676
rad60syn	1.38912e-05	0.999940	6.14612e-05	0.999737
rad59	1.15795e-05	0.999952	5.12334e-05	0.999789
rad60anti	8.34468e-06	0.999960	3.69209e-05	0.999826
rad45	6.25999e-06	0.999966	2.76972e-05	0.999853
rad19syn	5.87717e-06	0.999972	2.60035e-05	0.999879
rad51	3.78851e-06	0.999976	1.67622e-05	0.999896
rad67	3.08705e-06	0.999979	1.36586e-05	0.999910
rad11	2.42374e-06	0.999982	1.07238e-05	0.999920
rad7	2.29080e-06	0.999984	1.01356e-05	0.999931
rad54	2.09966e-06	0.999986	9.28991e-06	0.999940
PhcycC3H3_A+H	2.02741e-06	0.999988	8.97026e-06	0.999949
rad22	1.43592e-06	0.999989	6.35322e-06	0.999955
rad52	1.39165e-06	0.999991	6.15733e-06	0.999961
rad20	1.26509e-06	0.999992	5.59738e-06	0.999967
rad9	1.25762e-06	0.999993	5.56431e-06	0.999973
rad37	8.73213e-07	0.999994	3.86352e-06	0.999976
PAH10+CH3	7.51287e-07	0.999995	3.32406e-06	0.999980
rad21	7.28871e-07	0.999996	3.22488e-06	0.999983
rad36	5.82701e-07	0.999996	2.57815e-06	0.999986
rad58	5.76770e-07	0.999997	2.55191e-06	0.999988
rad28	4.99428e-07	0.999997	2.20971e-06	0.999990
PAH1+H	4.92252e-07	0.999998	2.17796e-06	0.999992
rad18	4.84760e-07	0.999998	2.14481e-06	0.999995
rad70	4.45237e-07	0.999999	1.96995e-06	0.999997
rad13	1.89960e-07	0.999999	8.40474e-07	0.999997
rad55	1.24386e-07	0.999999	5.50346e-07	0.999998
rad65	1.11190e-07	0.999999	4.91957e-07	0.999998
rad34	8.58207e-08	0.999999	3.79713e-07	0.999999
rad71	5.53824e-08	0.999999	2.45039e-07	0.999999
rad73	4.49798e-08	0.999999	1.99013e-07	0.999999
rad62	2.76264e-08	0.999999	1.22233e-07	0.999999
rad10	2.71087e-08	0.999999	1.19942e-07	1.000000
rad2	2.46375e-08	1.000000	1.09008e-07	1.000000
rad15	1.59184e-08	1.000000	7.04309e-08	1.000000
rad53	1.53006e-08	1.000000	6.76973e-08	1.000000
rad26	1.48127e-08	1.000000	6.55384e-08	1.000000
rad24	1.33880e-08	1.000000	5.92348e-08	1.000000
rad56	1.07611e-08	1.000000	4.76122e-08	1.000000
rad64	6.25635e-09	1.000000	2.76811e-08	1.000000
rad1	5.91139e-09	1.000000	2.61549e-08	1.000000
PAH8+H	4.72915e-09	1.000000	2.09241e-08	1.000000
rad33	4.47375e-09	1.000000	1.97941e-08	1.000000
rad43	4.18580e-09	1.000000	1.85200e-08	1.000000
rad68syn	2.72098e-09	1.000000	1.20389e-08	1.000000

rad3	2.67392e-09	1.000000	1.18307e-08	1.00000
rad4	2.10265e-09	1.000000	9.30315e-09	1.00000
rad12	1.98451e-09	1.000000	8.78043e-09	1.00000
rad68anti	1.79049e-09	1.000000	7.92199e-09	1.00000
rad72	1.56523e-09	1.000000	6.92535e-09	1.00000
rad25	1.24509e-09	1.000000	5.50889e-09	1.00000
rad42	1.12906e-09	1.000000	4.99551e-09	1.00000
rad61	7.21542e-10	1.000000	3.19245e-09	1.00000
rad40syn	7.10926e-10	1.000000	3.14548e-09	1.00000
rad40anti	3.83109e-10	1.000000	1.69506e-09	1.00000
rad8	3.60792e-10	1.000000	1.59632e-09	1.00000
rad41	1.56023e-10	1.000000	6.90323e-10	1.00000
rad14	6.17874e-11	1.000000	2.73377e-10	1.00000
rad27	1.44542e-11	1.000000	6.39525e-11	1.00000
rad47	2.91634e-12	1.000000	1.29033e-11	1.00000
rad31	1.40418e-12	1.000000	6.21279e-12	1.00000
rad5	7.07560e-13	1.000000	3.13059e-12	1.00000

100.000000 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	1.49182e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837599	0.837599	0.000000	0.000000
Indene+H	0.132892	0.970491	0.818292	0.818292
PhCH2CCH+H	0.0118171	0.982308	0.0727646	0.891057
Ph+Allene	0.00955965	0.991868	0.0588643	0.949921
PhCHCCH2+H	0.00446920	0.996337	0.0275195	0.977440
PhCCH+CH3	0.000847314	0.997184	0.00521741	0.982658
PAH9+H	0.000567284	0.997752	0.00349310	0.986151
rad30	0.000325042	0.998077	0.00200147	0.988152
rad19anti	0.000321273	0.998398	0.00197827	0.990131
rad38	0.000295905	0.998694	0.00182206	0.991953
PAH7+H	0.000293956	0.998988	0.00181006	0.993763
PAH3+H	0.000275800	0.999264	0.00169826	0.995461
Ph+MeAc	0.000166528	0.999430	0.00102541	0.996486
rad35	0.000111312	0.999541	0.000685412	0.997172
rad46	7.92727e-05	0.999621	0.000488129	0.997660
rad39	6.82653e-05	0.999689	0.000420349	0.998080
rad6	6.48550e-05	0.999754	0.000399350	0.998480
rad50	5.62887e-05	0.999810	0.000346603	0.998826
PhCCCH3+H	3.10360e-05	0.999841	0.000191107	0.999017
rad59	2.75682e-05	0.999869	0.000169754	0.999187
rad60syn	2.64652e-05	0.999895	0.000162962	0.999350
rad51	2.05790e-05	0.999916	0.000126717	0.999477
rad60anti	1.77567e-05	0.999933	0.000109338	0.999586
rad67	1.01370e-05	0.999944	6.24195e-05	0.999649
rad71	8.65949e-06	0.999952	5.33215e-05	0.999702
rad19syn	8.65115e-06	0.999961	5.32702e-05	0.999755
rad23	8.04881e-06	0.999969	4.95612e-05	0.999805
rad52	5.34418e-06	0.999974	3.29072e-05	0.999838
PhcycC3H3_A+H	5.07655e-06	0.999979	3.12593e-05	0.999869
rad54	3.28376e-06	0.999983	2.02201e-05	0.999889
PAH10+CH3	3.04963e-06	0.999986	1.87783e-05	0.999908
rad73	2.81446e-06	0.999989	1.73303e-05	0.999925
rad58	2.03133e-06	0.999991	1.25081e-05	0.999938
PAH1+H	1.76869e-06	0.999992	1.08909e-05	0.999949
rad37	1.74930e-06	0.999994	1.07714e-05	0.999959
rad72	1.62332e-06	0.999996	9.99572e-06	0.999969
rad70	1.12923e-06	0.999997	6.95334e-06	0.999976
rad22	7.93357e-07	0.999998	4.88516e-06	0.999981
rad45	5.29479e-07	0.999998	3.26031e-06	0.999984
rad65	4.70862e-07	0.999999	2.89937e-06	0.999987
rad34	2.77798e-07	0.999999	1.71056e-06	0.999989
rad55	2.46424e-07	0.999999	1.51738e-06	0.999991
rad11	2.26118e-07	0.999999	1.39234e-06	0.999992
rad7	2.22432e-07	1.000000	1.36964e-06	0.999993
rad28	1.65577e-07	1.000000	1.01955e-06	0.999994
PAH8+H	1.43732e-07	1.000000	8.85039e-07	0.999995
rad9	1.42517e-07	1.000000	8.77557e-07	0.999996
rad20	1.27364e-07	1.000000	7.84255e-07	0.999997
rad36	8.85277e-08	1.000000	5.45117e-07	0.999997
rad21	6.70165e-08	1.000000	4.12660e-07	0.999998
rad18	6.05160e-08	1.000000	3.72632e-07	0.999998
rad53	5.49151e-08	1.000000	3.38145e-07	0.999999
rad56	5.05742e-08	1.000000	3.11415e-07	0.999999
rad62	4.86346e-08	1.000000	2.99472e-07	0.999999

rad64	3.90640e-08	1.00000	2.40540e-07	0.999999
rad68syn	2.42970e-08	1.00000	1.49611e-07	1.000000
rad68anti	1.55986e-08	1.00000	9.60498e-08	1.000000
rad40syn	1.20538e-08	1.00000	7.42222e-08	1.000000
rad13	1.18182e-08	1.00000	7.27715e-08	1.000000
rad43	9.43815e-09	1.00000	5.81162e-08	1.000000
rad40anti	8.74692e-09	1.00000	5.38599e-08	1.000000
rad61	7.79072e-09	1.00000	4.79720e-08	1.000000
rad15	7.04946e-09	1.00000	4.34076e-08	1.000000
rad42	4.22517e-09	1.00000	2.60168e-08	1.000000
rad26	2.75752e-09	1.00000	1.69796e-08	1.000000
rad24	1.69715e-09	1.00000	1.04503e-08	1.000000
rad10	1.36703e-09	1.00000	8.41761e-09	1.000000
rad41	7.71117e-10	1.00000	4.74821e-09	1.000000
rad2	5.26543e-10	1.00000	3.24223e-09	1.000000
rad12	4.25021e-10	1.00000	2.61711e-09	1.000000
rad33	3.00025e-10	1.00000	1.84743e-09	1.000000
rad8	1.74553e-10	1.00000	1.07483e-09	1.000000
rad1	1.36633e-10	1.00000	8.41332e-10	1.000000
rad25	1.24426e-10	1.00000	7.66164e-10	1.000000
rad3	6.43233e-11	1.00000	3.96076e-10	1.000000
rad4	4.08735e-11	1.00000	2.51682e-10	1.000000
rad47	6.06747e-12	1.00000	3.73609e-11	1.000000
rad14	4.58132e-12	1.00000	2.82098e-11	1.000000
rad5	1.47882e-12	1.00000	9.10595e-12	1.000000
rad27	6.90342e-13	1.00000	4.25084e-12	1.000000

100.000000 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.47606e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866418	0.866418	0.00000	0.00000
Indene+H	0.0943393	0.960757	0.706228	0.706228
PhCH2CCH+H	0.0189362	0.979693	0.141757	0.847985
Ph+Allene	0.0101306	0.989824	0.0758377	0.923823
PhCHCCH2+H	0.00579078	0.995615	0.0433500	0.967173
PAH9+H	0.000769340	0.996384	0.00575931	0.972932
PhCCH+CH3	0.000546804	0.996931	0.00409340	0.977025
PAH3+H	0.000526472	0.997457	0.00394119	0.980967
rad19anti	0.000486391	0.997944	0.00364114	0.984608
rad38	0.000414455	0.998358	0.00310263	0.987710
rad30	0.000378305	0.998737	0.00283201	0.990542
PAH7+H	0.000352869	0.999090	0.00264159	0.993184
Ph+MeAc	0.000164574	0.999254	0.00123201	0.994416
rad35	0.000155983	0.999410	0.00116770	0.995584
rad46	0.000121458	0.999532	0.000909241	0.996493
rad50	0.000100224	0.999632	0.000750280	0.997243
rad39	8.21550e-05	0.999714	0.000615016	0.997858
rad59	4.92177e-05	0.999763	0.000368446	0.998227
rad60syn	4.01174e-05	0.999803	0.000300321	0.998527
PhCCH3+H	3.59659e-05	0.999839	0.000269242	0.998796
rad51	3.27572e-05	0.999872	0.000245222	0.999041
rad60anti	2.75089e-05	0.999899	0.000205933	0.999247
rad67	2.44434e-05	0.999924	0.000182985	0.999430
rad19syn	1.20051e-05	0.999936	8.98710e-05	0.999520
rad52	9.44763e-06	0.999945	7.07254e-05	0.999591
rad6	8.55327e-06	0.999954	6.40301e-05	0.999655
PhcycC3H3_A+H	8.01915e-06	0.999962	6.00317e-05	0.999715
PAH10+CH3	7.89135e-06	0.999970	5.90749e-05	0.999774
rad58	5.04299e-06	0.999975	3.77520e-05	0.999812
rad54	4.45581e-06	0.999979	3.33564e-05	0.999845
rad71	3.98639e-06	0.999983	2.98423e-05	0.999875
rad37	3.45041e-06	0.999987	2.58299e-05	0.999901
PAH1+H	3.00787e-06	0.999990	2.25170e-05	0.999923
rad23	2.59483e-06	0.999992	1.94250e-05	0.999943
rad70	2.12215e-06	0.999994	1.58865e-05	0.999959
rad73	1.66208e-06	0.999996	1.24424e-05	0.999971
rad65	8.86935e-07	0.999997	6.63963e-06	0.999978
rad72	5.97942e-07	0.999998	4.47622e-06	0.999982
rad34	5.65195e-07	0.999998	4.23107e-06	0.999986
rad55	3.65584e-07	0.999999	2.73678e-06	0.999989
rad22	1.78394e-07	0.999999	1.33546e-06	0.999991
rad45	1.76177e-07	0.999999	1.31887e-06	0.999992
PAH8+H	1.57627e-07	0.999999	1.18001e-06	0.999993
rad56	1.11920e-07	0.999999	8.37838e-07	0.999994
rad53	1.09231e-07	0.999999	8.17708e-07	0.999995

rad9	7.33637e-08	0.999999	5.49204e-07	0.999995
rad62	6.57483e-08	0.999999	4.92194e-07	0.999996
rad64	6.34014e-08	1.000000	4.74626e-07	0.999996
rad20	5.33984e-08	1.000000	3.99743e-07	0.999997
rad11	5.23441e-08	1.000000	3.91850e-07	0.999997
rad68syn	4.55630e-08	1.000000	3.41087e-07	0.999997
rad7	3.87281e-08	1.000000	2.89920e-07	0.999998
rad28	3.13110e-08	1.000000	2.34395e-07	0.999998
rad36	3.02844e-08	1.000000	2.26710e-07	0.999998
rad68anti	2.93539e-08	1.000000	2.19744e-07	0.999998
rad21	2.74562e-08	1.000000	2.05538e-07	0.999999
rad43	2.23728e-08	1.000000	1.67483e-07	0.999999
rad40syn	1.75004e-08	1.000000	1.31008e-07	0.999999
rad61	1.69992e-08	1.000000	1.27256e-07	0.999999
rad18	1.67914e-08	1.000000	1.25701e-07	0.999999
rad40anti	1.14949e-08	1.000000	8.60512e-08	0.999999
rad42	6.27317e-09	1.000000	4.69612e-08	0.999999
rad15	3.75453e-09	1.000000	2.81066e-08	0.999999
rad13	2.92263e-09	1.000000	2.18790e-08	0.999999
rad41	2.08318e-09	1.000000	1.55948e-08	0.999999
rad24	9.48432e-10	1.000000	7.10001e-09	0.999999
rad26	5.99792e-10	1.000000	4.49007e-09	0.999999
rad12	3.72522e-10	1.000000	2.78872e-09	0.999999
rad8	2.00667e-10	1.000000	1.50220e-09	0.999999
rad10	1.98283e-10	1.000000	1.48436e-09	0.999999
rad33	9.85030e-11	1.000000	7.37398e-10	0.999999
rad2	6.96178e-11	1.000000	5.21162e-10	0.999999
rad25	5.47342e-11	1.000000	4.09742e-10	0.999999
rad1	1.88608e-11	1.000000	1.41193e-10	0.999999
rad3	1.30052e-11	1.000000	9.73571e-11	0.999999
rad4	8.29672e-12	1.000000	6.21096e-11	0.999999
rad47	7.87355e-12	1.000000	5.89417e-11	0.999999
rad5	2.06379e-12	1.000000	1.54496e-11	0.999999
rad14	1.37608e-12	1.000000	1.03014e-11	0.999999
rad27	2.18985e-13	1.000000	1.63933e-12	0.999999

100.000000 Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	4.00885e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.878201	0.878201	0.000000	0.000000
Indene+H	0.0702847	0.948486	0.577056	0.577056
PhCH2CCH+H	0.0277457	0.976231	0.227800	0.804856
Ph+Allene	0.0106021	0.986833	0.0870457	0.891902
PhCHCCH2+H	0.00765701	0.994491	0.0628662	0.954768
PAH9+H	0.000943579	0.995434	0.00774704	0.962515
PAH3+H	0.000857335	0.996291	0.00703895	0.969554
rad19anti	0.000629100	0.996921	0.00516508	0.974719
rad38	0.000526544	0.997447	0.00432307	0.979042
PAH7+H	0.000455429	0.997902	0.00373920	0.982781
rad30	0.000417269	0.998320	0.00342589	0.986207
PhCCH+CH3	0.000383017	0.998703	0.00314468	0.989352
rad35	0.000201052	0.998904	0.00165069	0.991003
Ph+MeAc	0.000197883	0.999102	0.00162467	0.992627
rad50	0.000172675	0.999274	0.00141771	0.994045
rad46	0.000167033	0.999441	0.00137138	0.995416
rad39	0.000120195	0.999562	0.000986834	0.996403
rad59	7.57756e-05	0.999637	0.000622138	0.997025
rad51	6.36823e-05	0.999701	0.000522849	0.997548
rad60syn	5.44536e-05	0.999756	0.000447079	0.997995
PhCCCH3+H	5.15721e-05	0.999807	0.000423421	0.998419
rad67	4.61989e-05	0.999853	0.000379306	0.998798
rad60anti	3.79885e-05	0.999891	0.000311896	0.999110
rad52	1.73264e-05	0.999909	0.000142254	0.999252
PAH10+CH3	1.72588e-05	0.999926	0.000141699	0.999394
rad19syn	1.64752e-05	0.999942	0.000135266	0.999529
PhcycC3H3_A+H	1.12064e-05	0.999954	9.20079e-05	0.999621
rad58	1.00687e-05	0.999964	8.26671e-05	0.999704
PAH1+H	6.07060e-06	0.999970	4.98413e-05	0.999754
rad37	5.72808e-06	0.999975	4.70291e-05	0.999801
rad54	5.42578e-06	0.999981	4.45471e-05	0.999845
rad71	5.15176e-06	0.999986	4.22974e-05	0.999887
rad70	3.70522e-06	0.999990	3.04209e-05	0.999918
rad73	2.79037e-06	0.999992	2.29097e-05	0.999941
rad65	1.72146e-06	0.999994	1.41337e-05	0.999955
rad6	1.20411e-06	0.999995	9.88611e-06	0.999965

rad34	1.08882e-06	0.999997	8.93952e-06	0.999974
rad23	6.04392e-07	0.999997	4.96222e-06	0.999979
rad55	4.77521e-07	0.999998	3.92058e-06	0.999983
rad72	4.36743e-07	0.999998	3.58578e-06	0.999986
PAH8+H	4.09639e-07	0.999998	3.36325e-06	0.999990
rad56	1.93181e-07	0.999999	1.58607e-06	0.999991
rad53	1.77214e-07	0.999999	1.45498e-06	0.999993
rad64	1.36666e-07	0.999999	1.12206e-06	0.999994
rad68syn	1.12073e-07	0.999999	9.20149e-07	0.999995
rad62	9.71424e-08	0.999999	7.97566e-07	0.999995
rad68anti	7.20297e-08	0.999999	5.91383e-07	0.999996
rad45	6.80669e-08	0.999999	5.58848e-07	0.999997
rad43	4.83786e-08	0.999999	3.97202e-07	0.999997
rad61	4.69152e-08	0.999999	3.85187e-07	0.999997
rad40syn	4.55906e-08	0.999999	3.74311e-07	0.999998
rad22	4.43372e-08	0.999999	3.64021e-07	0.999998
rad9	3.82458e-08	1.000000	3.14009e-07	0.999998
rad40anti	3.01643e-08	1.000000	2.47657e-07	0.999999
rad20	2.62687e-08	1.000000	2.15673e-07	0.999999
rad11	1.64370e-08	1.000000	1.34953e-07	0.999999
rad21	1.31136e-08	1.000000	1.07666e-07	0.999999
rad36	1.19725e-08	1.000000	9.82979e-08	0.999999
rad42	1.06068e-08	1.000000	8.70844e-08	0.999999
rad7	9.29507e-09	1.000000	7.63151e-08	0.999999
rad18	6.38371e-09	1.000000	5.24120e-08	0.999999
rad41	5.38951e-09	1.000000	4.42493e-08	0.999999
rad28	5.10497e-09	1.000000	4.19132e-08	0.999999
rad15	2.17742e-09	1.000000	1.78772e-08	1.000000
rad13	8.37962e-10	1.000000	6.87990e-09	1.000000
rad24	5.69787e-10	1.000000	4.67811e-09	1.000000
rad12	3.05293e-10	1.000000	2.50654e-09	1.000000
rad26	2.35268e-10	1.000000	1.93161e-09	1.000000
rad8	2.17309e-10	1.000000	1.78416e-09	1.000000
rad10	7.22440e-11	1.000000	5.93143e-10	1.000000
rad33	3.59117e-11	1.000000	2.94845e-10	1.000000
rad25	2.85327e-11	1.000000	2.34262e-10	1.000000
rad47	1.45650e-11	1.000000	1.19583e-10	1.000000
rad2	1.42796e-11	1.000000	1.17239e-10	1.000000
rad1	4.16292e-12	1.000000	3.41788e-11	1.000000
rad3	3.11539e-12	1.000000	2.55782e-11	1.000000
rad5	2.19958e-12	1.000000	1.80591e-11	1.000000
rad4	1.97772e-12	1.000000	1.62376e-11	1.000000
rad14	5.30491e-13	1.000000	4.35548e-12	1.000000
rad27	1.31939e-13	1.000000	1.08325e-12	1.000000

100.00000 Pa, 2500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.32896e-13 (1.00)	6.40311e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.879843	0.879843	0.00000	0.00000
Indene+H	0.0541583	0.934001	0.450728	0.450728
PhCH2CCH+H	0.0379681	0.971969	0.315987	0.766715
Ph+Allene	0.0112452	0.983215	0.0935876	0.860303
PhCHCCH2+H	0.00999519	0.993210	0.0831842	0.943487
PAH3+H	0.00124360	0.994453	0.0103498	0.953837
PAH9+H	0.00106606	0.995519	0.00887217	0.962709
rad19anti	0.000730960	0.996250	0.00608336	0.968792
rad38	0.000614748	0.996865	0.00511620	0.973908
PAH7+H	0.000587185	0.997452	0.00488680	0.978795
rad30	0.000442205	0.997895	0.00368022	0.982475
PhCCH+CH3	0.000309016	0.998204	0.00257176	0.985047
rad50	0.000262394	0.998466	0.00218376	0.987231
Ph+MeAc	0.000256985	0.998723	0.00213874	0.989370
rad35	0.000242255	0.998965	0.00201615	0.991386
rad46	0.000208061	0.999173	0.00173157	0.993117
rad39	0.000176363	0.999350	0.00146776	0.994585
rad51	0.000110253	0.999460	0.000917573	0.995503
rad59	0.000104828	0.999565	0.000872423	0.996375
rad67	7.34632e-05	0.999638	0.000611392	0.996986
PhCCCH3+H	7.22806e-05	0.999710	0.000601550	0.997588
rad60syn	6.81867e-05	0.999779	0.000567479	0.998156
rad60anti	4.82386e-05	0.999827	0.000401462	0.998557
PAH10+CH3	3.09271e-05	0.999858	0.000257389	0.998814
rad52	2.79095e-05	0.999886	0.000232275	0.999047
rad19syn	2.35007e-05	0.999909	0.000195583	0.999242
rad58	1.71647e-05	0.999926	0.000142852	0.999385

PhcycC3H3_A+H	1.49885e-05	0.999941	0.000124741	0.999510
rad71	1.13889e-05	0.999953	9.47831e-05	0.999605
PAH1+H	1.13438e-05	0.999964	9.44082e-05	0.999699
rad37	8.13014e-06	0.999972	6.76625e-05	0.999767
rad54	6.28647e-06	0.999979	5.23187e-05	0.999819
rad73	6.12213e-06	0.999985	5.09509e-05	0.999870
rad70	5.97568e-06	0.999991	4.97322e-05	0.999920
rad65	2.89209e-06	0.999994	2.40692e-05	0.999944
rad34	1.90841e-06	0.999995	1.58826e-05	0.999960
PAH8+H	1.07294e-06	0.999996	8.92948e-06	0.999969
rad72	8.15411e-07	0.999997	6.78620e-06	0.999975
rad55	5.88356e-07	0.999998	4.89655e-06	0.999980
rad56	3.23685e-07	0.999998	2.69384e-06	0.999983
rad64	2.72116e-07	0.999998	2.26467e-06	0.999985
rad53	2.71841e-07	0.999999	2.26238e-06	0.999987
rad68syn	2.48286e-07	0.999999	2.06634e-06	0.999990
rad6	2.34425e-07	0.999999	1.95098e-06	0.999991
rad23	1.80044e-07	0.999999	1.49840e-06	0.999993
rad68anti	1.59180e-07	1.000000	1.32477e-06	0.999994
rad62	1.55905e-07	1.000000	1.29751e-06	0.999996
rad40syn	1.11284e-07	1.000000	9.26151e-07	0.999997
rad61	1.05974e-07	1.000000	8.81959e-07	0.999997
rad43	8.80229e-08	1.000000	7.32564e-07	0.999998
rad40anti	7.57732e-08	1.000000	6.30617e-07	0.999999
rad45	2.95965e-08	1.000000	2.46315e-07	0.999999
rad9	2.03622e-08	1.000000	1.69463e-07	0.999999
rad42	1.99119e-08	1.000000	1.65715e-07	0.999999
rad22	1.52156e-08	1.000000	1.26630e-07	0.999999
rad20	1.45084e-08	1.000000	1.20745e-07	1.000000
rad41	1.14027e-08	1.000000	9.48985e-08	1.000000
rad21	7.01008e-09	1.000000	5.83408e-08	1.000000
rad11	6.38934e-09	1.000000	5.31748e-08	1.000000
rad36	5.30461e-09	1.000000	4.41472e-08	1.000000
rad18	2.87807e-09	1.000000	2.39525e-08	1.000000
rad7	2.68537e-09	1.000000	2.23488e-08	1.000000
rad15	1.29229e-09	1.000000	1.07550e-08	1.000000
rad28	1.26508e-09	1.000000	1.05285e-08	1.000000
rad24	3.60372e-10	1.000000	2.99917e-09	1.000000
rad13	2.74430e-10	1.000000	2.28392e-09	1.000000
rad12	2.40067e-10	1.000000	1.99794e-09	1.000000
rad8	2.25712e-10	1.000000	1.87847e-09	1.000000
rad26	1.31877e-10	1.000000	1.09753e-09	1.000000
rad10	4.18820e-11	1.000000	3.48560e-10	1.000000
rad47	2.46273e-11	1.000000	2.04959e-10	1.000000
rad25	1.72125e-11	1.000000	1.43250e-10	1.000000
rad33	1.46443e-11	1.000000	1.21876e-10	1.000000
rad2	5.06512e-12	1.000000	4.21541e-11	1.000000
rad5	2.25461e-12	1.000000	1.87639e-11	1.000000
rad1	1.65789e-12	1.000000	1.37976e-11	1.000000
rad3	8.88342e-13	1.000000	7.39316e-12	1.000000
rad4	5.55598e-13	1.000000	4.62392e-12	1.000000
rad14	2.69968e-13	1.000000	2.24679e-12	1.000000
rad27	1.08105e-13	1.000000	8.99693e-13	1.000000

100.000000 Pa, 2750.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	8.05113e-13 (1.00)		1.00488e-13 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.875188	0.875188	0.00000	0.00000
PhCH2CCH+H	0.0492371	0.924425	0.394491	0.394491
Indene+H	0.0427150	0.967140	0.342236	0.736727
PhCHCCH2+H	0.0126525	0.979793	0.101372	0.838099
Ph+Allene	0.0121361	0.991929	0.0972356	0.935335
PAH3+H	0.00165414	0.993583	0.0132531	0.948588
PAH9+H	0.00112944	0.994712	0.00904916	0.957637
rad19anti	0.000790010	0.995502	0.00632962	0.963966
PAH7+H	0.000729483	0.996232	0.00584468	0.969811
rad38	0.000670641	0.996902	0.00537323	0.975184
rad30	0.000454283	0.997357	0.00363975	0.978824
rad50	0.000357132	0.997714	0.00286137	0.981686
Ph+MeAc	0.000331303	0.998045	0.00265443	0.984340
PhCCH+CH3	0.000293322	0.998338	0.00235012	0.986690
rad35	0.000276904	0.998615	0.00221858	0.988909
rad39	0.000242954	0.998858	0.00194656	0.990855
rad46	0.000239445	0.999098	0.00191845	0.992774
rad51	0.000167825	0.999266	0.00134463	0.994118

rad59	0.000133899	0.999399	0.00107281	0.995191
rad67	0.000103306	0.999503	0.000827698	0.996019
PhCCCH3+H	9.47602e-05	0.999598	0.000759226	0.996778
rad60syn	8.03404e-05	0.999678	0.000643693	0.997422
rad60anti	5.74983e-05	0.999735	0.000460681	0.997882
PAH10+CH3	4.75658e-05	0.999783	0.000381101	0.998263
rad52	3.98414e-05	0.999823	0.000319213	0.998583
rad19syn	3.43533e-05	0.999857	0.000275242	0.998858
rad58	2.60277e-05	0.999883	0.000208536	0.999066
rad71	2.41602e-05	0.999907	0.000193574	0.999260
PhcycC3H3_A+H	1.91242e-05	0.999926	0.000153225	0.999413
PAH1+H	1.89499e-05	0.999945	0.000151828	0.999565
rad73	1.20737e-05	0.999957	9.67356e-05	0.999662
rad37	1.02462e-05	0.999968	8.20932e-05	0.999744
rad70	8.97668e-06	0.999977	7.19219e-05	0.999816
rad54	7.05006e-06	0.999984	5.64856e-05	0.999872
rad65	4.28055e-06	0.999988	3.42961e-05	0.999907
rad34	3.6823e-06	0.999991	2.45829e-05	0.999931
PAH8+H	2.42871e-06	0.999994	1.94590e-05	0.999951
rad72	1.92789e-06	0.999995	1.54464e-05	0.999966
rad55	6.94734e-07	0.999996	5.56626e-06	0.999972
rad56	5.00806e-07	0.999997	4.01250e-06	0.999976
rad68syn	4.83824e-07	0.999997	3.87643e-06	0.999980
rad64	4.77463e-07	0.999998	3.82547e-06	0.999983
rad53	3.88477e-07	0.999998	3.11251e-06	0.999987
rad68anti	3.09593e-07	0.999998	2.48048e-06	0.999989
rad62	2.47986e-07	0.999999	1.98688e-06	0.999991
rad40syn	2.35749e-07	0.999999	1.88884e-06	0.999993
rad61	1.98549e-07	0.999999	1.59079e-06	0.999994
rad40anti	1.64666e-07	0.999999	1.31932e-06	0.999996
rad43	1.38348e-07	0.999999	1.10846e-06	0.999997
rad23	6.69167e-08	0.999999	5.36142e-07	0.999997
rad6	5.73963e-08	0.999999	4.59864e-07	0.999998
rad42	3.60063e-08	0.999999	2.88485e-07	0.999998
rad41	2.03406e-08	0.999999	1.62970e-07	0.999998
rad45	1.40848e-08	0.999999	1.12848e-07	0.999998
rad9	1.11410e-08	1.000000	8.92629e-08	0.999999
rad20	8.75495e-09	1.000000	7.01453e-08	0.999999
rad22	6.37198e-09	1.000000	5.10528e-08	0.999999
rad21	4.08564e-09	1.000000	3.27345e-08	0.999999
rad11	2.98826e-09	1.000000	2.39422e-08	0.999999
rad36	2.56344e-09	1.000000	2.05385e-08	0.999999
rad18	1.45569e-09	1.000000	1.16631e-08	0.999999
rad7	9.09747e-10	1.000000	7.28897e-09	0.999999
rad15	7.78422e-10	1.000000	6.23678e-09	0.999999
rad28	4.62489e-10	1.000000	3.70550e-09	0.999999
rad24	2.36695e-10	1.000000	1.89642e-09	0.999999
rad8	2.27477e-10	1.000000	1.82256e-09	0.999999
rad12	1.84668e-10	1.000000	1.47957e-09	0.999999
rad13	1.03664e-10	1.000000	8.30566e-10	0.999999
rad26	8.16222e-11	1.000000	6.53963e-10	0.999999
rad47	3.66692e-11	1.000000	2.93797e-10	0.999999
rad10	2.76757e-11	1.000000	2.21740e-10	0.999999
rad25	1.16952e-11	1.000000	9.37032e-11	0.999999
rad33	6.72104e-12	1.000000	5.38495e-11	0.999999
rad2	2.63669e-12	1.000000	2.11254e-11	0.999999
rad5	2.23727e-12	1.000000	1.79252e-11	0.999999
rad1	9.77166e-13	1.000000	7.82913e-12	0.999999
rad3	3.05916e-13	1.000000	2.45103e-12	0.999999
rad4	1.86793e-13	1.000000	1.49660e-12	0.999999
rad14	1.79257e-13	1.000000	1.43622e-12	0.999999
rad27	9.39046e-14	1.000000	7.52372e-13	0.999999

100.000000 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15309e-12 (1.00)	1.53862e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866566	0.866566	0.00000	0.00000
PhCH2CCH+H	0.0611725	0.927738	0.458447	0.458447
Indene+H	0.0342664	0.962005	0.256803	0.715250
PhCHCCH2+H	0.0154791	0.977484	0.116005	0.831255
Ph+Allene	0.0132661	0.990750	0.0994202	0.930675
PAH3+H	0.00205939	0.992809	0.0154337	0.946109
PAH9+H	0.00113818	0.993948	0.00852989	0.954639
PAH7+H	0.000866196	0.994814	0.00649155	0.961130
rad19anti	0.000812982	0.995627	0.00609275	0.967223

rad38	0.000693250	0.996320	0.00519544	0.972419
rad30	0.000455427	0.996776	0.00341311	0.975832
rad50	0.000445284	0.997221	0.00333710	0.979169
Ph+MeAc	0.000411380	0.997632	0.00308301	0.982252
PhCCH+CH3	0.000319072	0.997951	0.00239123	0.984643
rad39	0.000311473	0.998263	0.00233428	0.986977
rad35	0.000303825	0.998567	0.00227696	0.989254
rad46	0.000258953	0.998826	0.00194068	0.991195
rad51	0.000229789	0.999055	0.00172211	0.992917
rad59	0.000160967	0.999216	0.00120633	0.994123
rad67	0.000132860	0.999349	0.000995694	0.995119
PhCCCH3+H	0.000117527	0.999467	0.000880786	0.996000
rad60syn	9.03380e-05	0.999557	0.000677022	0.996677
PAH10+CH3	6.53573e-05	0.999622	0.000489808	0.997167
rad60anti	6.52880e-05	0.999688	0.000489289	0.997656
rad52	5.16202e-05	0.999739	0.000386858	0.998043
rad19syn	5.01073e-05	0.999789	0.000375520	0.998418
rad71	4.46402e-05	0.999834	0.000334548	0.998753
rad58	3.61223e-05	0.999870	0.000270712	0.999024
PAH1+H	2.86358e-05	0.999899	0.000214606	0.999238
PhcycC3H3_A+H	2.34405e-05	0.999922	0.000175670	0.999414
rad73	2.07464e-05	0.999943	0.000155480	0.999569
rad70	1.26574e-05	0.999956	9.48583e-05	0.999664
rad37	1.18405e-05	0.999967	8.87364e-05	0.999753
rad54	7.74224e-06	0.999975	5.80228e-05	0.999811
rad65	5.72187e-06	0.999981	4.28815e-05	0.999854
PAH8+H	4.80336e-06	0.999986	3.59980e-05	0.999890
rad34	4.57517e-06	0.999990	3.42878e-05	0.999924
rad72	4.08316e-06	0.999994	3.06005e-05	0.999955
rad68syn	8.44484e-07	0.999995	6.32883e-06	0.999961
rad55	7.96450e-07	0.999996	5.96885e-06	0.999967
rad64	7.49282e-07	0.999997	5.61536e-06	0.999973
rad56	7.20611e-07	0.999997	5.40049e-06	0.999978
rad68anti	5.39579e-07	0.999998	4.04378e-06	0.999982
rad53	5.23230e-07	0.999999	3.92125e-06	0.999986
rad40syn	4.40837e-07	0.999999	3.30377e-06	0.999989
rad62	3.72898e-07	0.999999	2.79461e-06	0.999992
rad61	3.22545e-07	1.000000	2.41726e-06	0.999995
rad40anti	3.14460e-07	1.000000	2.35667e-06	0.999997
rad43	1.94905e-07	1.000000	1.46068e-06	0.999998
rad42	5.98435e-08	1.000000	4.48487e-07	0.999999
rad41	3.19514e-08	1.000000	2.39454e-07	0.999999
rad23	2.83561e-08	1.000000	2.12510e-07	0.999999
rad6	1.69453e-08	1.000000	1.26994e-07	0.999999
rad45	7.18462e-09	1.000000	5.38438e-08	0.999999
rad9	6.29141e-09	1.000000	4.71498e-08	0.999999
rad20	5.66104e-09	1.000000	4.24256e-08	1.000000
rad22	3.04394e-09	1.000000	2.28123e-08	1.000000
rad21	2.54753e-09	1.000000	1.90920e-08	1.000000
rad11	1.63081e-09	1.000000	1.22218e-08	1.000000
rad36	1.32395e-09	1.000000	9.92213e-09	1.000000
rad18	8.01987e-10	1.000000	6.01035e-09	1.000000
rad15	4.77718e-10	1.000000	3.58017e-09	1.000000
rad7	3.58481e-10	1.000000	2.68657e-09	1.000000
rad8	2.23938e-10	1.000000	1.67826e-09	1.000000
rad28	2.18337e-10	1.000000	1.63629e-09	1.000000
rad24	1.60033e-10	1.000000	1.19933e-09	1.000000
rad12	1.40806e-10	1.000000	1.05525e-09	1.000000
rad26	5.18819e-11	1.000000	3.88820e-10	1.000000
rad47	4.90753e-11	1.000000	3.67786e-10	1.000000
rad13	4.51001e-11	1.000000	3.37994e-10	1.000000
rad10	1.87739e-11	1.000000	1.40698e-10	1.000000
rad25	8.65039e-12	1.000000	6.48288e-11	1.000000
rad33	3.44956e-12	1.000000	2.58521e-11	1.000000
rad5	2.16912e-12	1.000000	1.62561e-11	1.000000
rad2	1.61546e-12	1.000000	1.21068e-11	1.000000
rad1	6.72504e-13	1.000000	5.03996e-12	1.000000
rad14	1.41618e-13	1.000000	1.06133e-12	1.000000
rad3	1.26679e-13	1.000000	9.49376e-13	1.000000
rad27	8.07771e-14	1.000000	6.05369e-13	1.000000
rad4	7.51765e-14	1.000000	5.63397e-13	1.000000

100.000000 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.58309e-12 (1.00)	2.28795e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul

Benzy1+C2H2	0.855476	0.855476	0.00000	0.00000
PhCH2CCH+H	0.0734301	0.928906	0.508082	0.508082
Indene+H	0.0278640	0.956770	0.192798	0.700880
PhCHCCH2+H	0.0183610	0.975131	0.127045	0.827925
Ph+Allene	0.0145940	0.989725	0.100980	0.928905
PAH3+H	0.00243646	0.992162	0.0168585	0.945763
PAH9+H	0.00110340	0.993265	0.00763472	0.953398
PAH7+H	0.000986593	0.994252	0.00682649	0.960225
rad19anti	0.000808903	0.995060	0.00559701	0.965822
rad38	0.000686676	0.995747	0.00475129	0.970573
rad50	0.000518240	0.996265	0.00358583	0.974159
Ph+MeAc	0.000489466	0.996755	0.00338674	0.977546
rad30	0.000447972	0.997203	0.00309963	0.980645
PhCCH+CH3	0.000378213	0.997581	0.00261695	0.983262
rad39	0.000374491	0.997956	0.00259120	0.985853
rad35	0.000323023	0.998279	0.00223508	0.988088
rad51	0.000289306	0.998568	0.00200178	0.990090
rad46	0.000266721	0.998835	0.00184551	0.991936
rad59	0.000184695	0.999019	0.00127795	0.993214
rad67	0.000159865	0.999179	0.00110615	0.994320
PhCCCH3+H	0.000140367	0.999319	0.000971233	0.995291
rad60syn	9.79791e-05	0.999417	0.000677943	0.995969
PAH10+CH3	8.26164e-05	0.999500	0.000571644	0.996541
rad71	7.28725e-05	0.999573	0.000504224	0.997045
rad60anti	7.14060e-05	0.999644	0.000494077	0.997539
rad19syn	7.13412e-05	0.999716	0.000493628	0.998033
rad52	6.19626e-05	0.999778	0.000428735	0.998461
rad58	4.68390e-05	0.999825	0.000324091	0.998785
PAH1+H	3.98786e-05	0.999864	0.000275931	0.999061
rad73	3.17548e-05	0.999896	0.000219720	0.999281
PhcycC3H3_A+H	2.77979e-05	0.999924	0.000192341	0.999473
rad70	1.68829e-05	0.999941	0.000116817	0.999590
rad37	1.28498e-05	0.999954	8.89111e-05	0.999679
PAH8+H	8.50554e-06	0.999962	5.88521e-05	0.999738
rad54	8.38247e-06	0.999971	5.80005e-05	0.999796
rad72	7.53932e-06	0.999978	5.21665e-05	0.999848
rad65	7.06215e-06	0.999985	4.88648e-05	0.999897
rad34	6.39591e-06	0.999992	4.42550e-05	0.999941
rad68syn	1.34615e-06	0.999993	9.31439e-06	0.999951
rad64	1.07451e-06	0.999994	7.43479e-06	0.999958
rad56	9.79749e-07	0.999995	6.77914e-06	0.999965
rad55	8.94016e-07	0.999996	6.18593e-06	0.999971
rad68anti	8.59118e-07	0.999997	5.94446e-06	0.999977
rad40syn	7.44395e-07	0.999997	5.15066e-06	0.999982
rad53	6.73296e-07	0.999998	4.65871e-06	0.999987
rad40anti	5.40411e-07	0.999999	3.73924e-06	0.999990
rad62	5.25271e-07	0.999999	3.63448e-06	0.999994
rad61	4.70570e-07	1.000000	3.25599e-06	0.999997
rad43	2.53719e-07	1.000000	1.75554e-06	0.999999
rad42	9.14592e-08	1.000000	6.32830e-07	1.000000
rad41	4.57464e-08	1.000000	3.16531e-07	1.000000
rad23	1.31412e-08	1.000000	9.09271e-08	1.000000
rad6	5.94564e-09	1.000000	4.11394e-08	1.000000
rad45	3.86958e-09	1.000000	2.67746e-08	1.000000
rad20	3.86683e-09	1.000000	2.67556e-08	1.000000
rad9	3.67539e-09	1.000000	2.54310e-08	1.000000
rad21	1.67615e-09	1.000000	1.15977e-08	1.000000
rad22	1.60625e-09	1.000000	1.11140e-08	1.000000
rad11	1.00372e-09	1.000000	6.94500e-09	1.000000
rad36	7.20199e-10	1.000000	4.98324e-09	1.000000
rad18	4.72060e-10	1.000000	3.26631e-09	1.000000
rad15	2.99751e-10	1.000000	2.07405e-09	1.000000
rad8	2.16194e-10	1.000000	1.49590e-09	1.000000
rad7	1.61857e-10	1.000000	1.11993e-09	1.000000
rad28	1.19922e-10	1.000000	8.29772e-10	1.000000
rad24	1.10784e-10	1.000000	7.66540e-10	1.000000
rad12	1.07299e-10	1.000000	7.42433e-10	1.000000
rad47	6.03691e-11	1.000000	4.17709e-10	1.000000
rad26	3.34176e-11	1.000000	2.31225e-10	1.000000
rad13	2.22975e-11	1.000000	1.54282e-10	1.000000
rad10	1.28213e-11	1.000000	8.87140e-11	1.000000
rad25	6.76270e-12	1.000000	4.67929e-11	1.000000
rad5	2.08136e-12	1.000000	1.44014e-11	1.000000
rad33	1.95289e-12	1.000000	1.35125e-11	1.000000
rad2	1.05741e-12	1.000000	7.31647e-12	1.000000
rad1	4.89266e-13	1.000000	3.38536e-12	1.000000
rad14	1.21383e-13	1.000000	8.39883e-13	1.000000
rad27	6.83755e-14	1.000000	4.73108e-13	1.000000
rad3	6.15801e-14	1.000000	4.26089e-13	1.000000
rad4	3.55805e-14	1.000000	2.46191e-13	1.000000

100.000000 Pa, 3500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.10046e-12 (1.00)	3.29923e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.842928	0.842928	0.00000	0.00000
PhCH2CCH+H	0.0857241	0.928652	0.545762	0.545762
Indene+H	0.0229286	0.951581	0.145975	0.691737
PhCHCCH2+H	0.0212218	0.972802	0.135108	0.826845
Ph+Allene	0.0160719	0.988874	0.102322	0.929167
PAH3+H	0.00277081	0.991645	0.0176403	0.946807
PAH7+H	0.00108548	0.992731	0.00691069	0.953718
PAH9+H	0.00103824	0.993769	0.00660993	0.960328
rad19anti	0.000786009	0.994555	0.00500412	0.965332
rad38	0.000657571	0.995213	0.00418642	0.969518
rad50	0.000571348	0.995784	0.00363749	0.973156
Ph+MeAc	0.000559758	0.996344	0.00356370	0.976720
PhCCH+CH3	0.000466754	0.996810	0.00297159	0.979691
rad30	0.000434295	0.997245	0.00276494	0.982456
rad39	0.000426813	0.997671	0.00271731	0.985173
rad51	0.000340851	0.998012	0.00217003	0.987344
rad35	0.000335220	0.998348	0.00213418	0.989478
rad46	0.000264414	0.998612	0.00168339	0.991161
rad59	0.000204436	0.998816	0.00130154	0.992463
rad67	0.000182834	0.998999	0.00116401	0.993627
PhCCCH3+H	0.000163685	0.999163	0.00104210	0.994669
rad71	0.000107636	0.999271	0.000685264	0.995354
rad60syn	0.000103349	0.999374	0.000657968	0.996012
PAH10+CH3	9.81189e-05	0.999472	0.000624674	0.996637
rad19syn	9.79727e-05	0.999570	0.000623743	0.997260
rad60anti	7.58697e-05	0.999646	0.000483024	0.997743
rad52	7.00258e-05	0.999716	0.000445819	0.998189
rad58	5.76197e-05	0.999774	0.000366836	0.998556
PAH1+H	5.20543e-05	0.999826	0.000331404	0.998887
rad73	4.43211e-05	0.999870	0.000282170	0.999170
PhcycC3H3_A+H	3.20637e-05	0.999902	0.000204134	0.999374
rad70	2.14711e-05	0.999923	0.000136695	0.999510
PAH8+H	1.37730e-05	0.999937	8.76860e-05	0.999598
rad37	1.33235e-05	0.999951	8.48238e-05	0.999683
rad72	1.23994e-05	0.999963	7.89408e-05	0.999762
rad54	8.98062e-06	0.999972	5.71751e-05	0.999819
rad34	8.46729e-06	0.999980	5.39070e-05	0.999873
rad65	8.19079e-06	0.999989	5.21466e-05	0.999925
rad68syn	1.99237e-06	0.999991	1.26844e-05	0.999938
rad64	1.43502e-06	0.999992	9.13608e-06	0.999947
rad56	1.27415e-06	0.999993	8.11187e-06	0.999955
rad68anti	1.27033e-06	0.999995	8.08756e-06	0.999963
rad40syn	1.15720e-06	0.999996	7.36731e-06	0.999971
rad55	9.87619e-07	0.999997	6.28768e-06	0.999977
rad40anti	8.52770e-07	0.999998	5.42916e-06	0.999982
rad53	8.35979e-07	0.999998	5.32226e-06	0.999988
rad62	6.97383e-07	0.999999	4.43989e-06	0.999992
rad61	6.32584e-07	1.000000	4.02735e-06	0.999996
rad43	3.12013e-07	1.000000	1.98643e-06	0.999998
rad42	1.30129e-07	1.000000	8.28465e-07	0.999999
rad41	6.11807e-08	1.000000	3.89507e-07	0.999999
rad23	6.52449e-09	1.000000	4.15382e-08	0.999999
rad20	2.76082e-09	1.000000	1.75767e-08	0.999999
rad6	2.44305e-09	1.000000	1.55536e-08	0.999999
rad9	2.22228e-09	1.000000	1.41482e-08	0.999999
rad45	2.17717e-09	1.000000	1.38610e-08	0.999999
rad21	1.15201e-09	1.000000	7.33430e-09	0.999999
rad22	9.18068e-10	1.000000	5.84488e-09	0.999999
rad11	6.75944e-10	1.000000	4.30340e-09	0.999999
rad36	4.08376e-10	1.000000	2.59993e-09	0.999999
rad18	2.92897e-10	1.000000	1.86473e-09	0.999999
rad8	2.05210e-10	1.000000	1.30647e-09	0.999999
rad15	1.92595e-10	1.000000	1.22615e-09	0.999999
rad12	8.20985e-11	1.000000	5.22680e-10	0.999999
rad7	8.20262e-11	1.000000	5.22220e-10	0.999999
rad24	7.82749e-11	1.000000	4.98337e-10	0.999999
rad28	7.19073e-11	1.000000	4.57798e-10	0.999999
rad47	6.95063e-11	1.000000	4.42512e-10	0.999999
rad26	2.18086e-11	1.000000	1.38844e-10	0.999999
rad13	1.22856e-11	1.000000	7.82161e-11	0.999999
rad10	8.82862e-12	1.000000	5.62074e-11	0.999999

rad25	5.47425e-12	1.00000	3.48518e-11	0.999999
rad5	1.99173e-12	1.00000	1.26803e-11	0.999999
rad33	1.20035e-12	1.00000	7.64202e-12	0.999999
rad2	7.22888e-13	1.00000	4.60226e-12	0.999999
rad1	3.65175e-13	1.00000	2.32488e-12	0.999999
rad14	1.07182e-13	1.00000	6.82375e-13	0.999999
rad27	5.73348e-14	1.00000	3.65022e-13	0.999999
rad3	3.40493e-14	1.00000	2.16775e-13	0.999999
rad4	1.92754e-14	1.00000	1.22717e-13	0.999999

100.000000 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.70978e-12 (1.00)	4.61708e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829614	0.829614	0.00000	0.00000
PhCH2CCH+H	0.0978315	0.927445	0.574175	0.574175
PhCHCCH2+H	0.0240141	0.951460	0.140939	0.715114
Indene+H	0.0190788	0.970538	0.111974	0.827088
Ph+Allene	0.0176550	0.988193	0.103617	0.930705
PAH3+H	0.00305565	0.991249	0.0179337	0.948639
PAH7+H	0.00116197	0.992411	0.00681959	0.955458
PAH9+H	0.000955033	0.993366	0.00560510	0.961063
rad19anti	0.000750871	0.994117	0.00440687	0.965470
Ph+MeAc	0.000618509	0.994735	0.00363003	0.969100
rad38	0.000613187	0.995349	0.00359880	0.972699
rad50	0.000603644	0.995952	0.00354280	0.976242
PhCCH+CH3	0.000581835	0.996534	0.00341480	0.979657
rad39	0.000465801	0.997000	0.00273379	0.982390
rad30	0.000416539	0.997416	0.00244467	0.984835
rad51	0.000381007	0.997797	0.00223614	0.987071
rad35	0.000341506	0.998139	0.00200430	0.989076
rad46	0.000254424	0.998393	0.00149322	0.990569
rad59	0.000220084	0.998613	0.00129168	0.991860
rad67	0.000201013	0.998814	0.00117975	0.993040
PhCCCH3+H	0.000187989	0.999002	0.00110331	0.994144
rad71	0.000146799	0.999149	0.000861566	0.995005
rad19syn	0.000129261	0.999279	0.000758633	0.995764
PAH10+CH3	0.000111172	0.999390	0.000652469	0.996416
rad60syn	0.000106707	0.999496	0.000626263	0.997042
rad60anti	7.88382e-05	0.999575	0.000462703	0.997505
rad52	7.54537e-05	0.999651	0.000442839	0.997948
rad58	6.80261e-05	0.999719	0.000399246	0.998347
PAH1+H	6.45822e-05	0.999783	0.000379034	0.998726
rad73	5.74933e-05	0.999841	0.000337429	0.999064
PhcycC3H3_A+H	3.61214e-05	0.999877	0.000211997	0.999276
rad70	2.62310e-05	0.999903	0.000153950	0.999430
PAH8+H	2.07423e-05	0.999924	0.000121737	0.999551
rad72	1.85788e-05	0.999942	0.000109039	0.999660
rad37	1.33636e-05	0.999956	7.84310e-05	0.999739
rad34	1.07116e-05	0.999967	6.28668e-05	0.999802
rad54	9.53970e-06	0.999976	5.59886e-05	0.999858
rad65	9.05153e-06	0.999985	5.31235e-05	0.999911
rad68syn	2.77522e-06	0.999988	1.62878e-05	0.999927
rad64	1.81238e-06	0.999990	1.06369e-05	0.999938
rad68anti	1.76808e-06	0.999991	1.03769e-05	0.999948
rad40syn	1.68195e-06	0.999993	9.87141e-06	0.999958
rad56	1.59875e-06	0.999995	9.38308e-06	0.999967
rad40anti	1.25565e-06	0.999996	7.36944e-06	0.999975
rad55	1.07703e-06	0.999997	6.32113e-06	0.999981
rad53	1.00841e-06	0.999998	5.91837e-06	0.999987
rad62	8.81796e-07	0.999999	5.17527e-06	0.999992
rad61	7.98463e-07	1.000000	4.68619e-06	0.999997
rad43	3.67979e-07	1.00000	2.15967e-06	0.999999
rad42	1.74778e-07	1.00000	1.02578e-06	1.00000
rad41	7.77076e-08	1.00000	4.56067e-07	1.00000
rad23	3.42730e-09	1.00000	2.01149e-08	1.00000
rad20	2.04403e-09	1.00000	1.19964e-08	1.00000
rad9	1.38932e-09	1.00000	8.15395e-09	1.00000
rad45	1.27001e-09	1.00000	7.45372e-09	1.00000
rad6	1.15275e-09	1.00000	6.76552e-09	1.00000
rad21	8.20925e-10	1.00000	4.81802e-09	1.00000
rad22	5.60460e-10	1.00000	3.28935e-09	1.00000
rad11	4.86535e-10	1.00000	2.85548e-09	1.00000
rad36	2.39613e-10	1.00000	1.40629e-09	1.00000
rad8	1.91884e-10	1.00000	1.12617e-09	1.00000
rad18	1.89754e-10	1.00000	1.11367e-09	1.00000

rad15	1.26702e-10	1.00000	7.43617e-10	1.00000
rad47	7.59738e-11	1.00000	4.45891e-10	1.00000
rad12	6.32193e-11	1.00000	3.71035e-10	1.00000
rad24	5.63475e-11	1.00000	3.30704e-10	1.00000
rad7	4.56662e-11	1.00000	2.68015e-10	1.00000
rad28	4.55399e-11	1.00000	2.67274e-10	1.00000
rad26	1.44478e-11	1.00000	8.47942e-11	1.00000
rad13	7.39222e-12	1.00000	4.33850e-11	1.00000
rad10	6.16409e-12	1.00000	3.61771e-11	1.00000
rad25	4.53027e-12	1.00000	2.65882e-11	1.00000
rad5	1.90608e-12	1.00000	1.11868e-11	1.00000
rad33	7.89218e-13	1.00000	4.63193e-12	1.00000
rad2	5.16493e-13	1.00000	3.03130e-12	1.00000
rad1	2.76991e-13	1.00000	1.62566e-12	1.00000
rad14	9.54485e-14	1.00000	5.60188e-13	1.00000
rad27	4.79708e-14	1.00000	2.81541e-13	1.00000
rad3	2.08050e-14	1.00000	1.22105e-13	1.00000
rad4	1.16255e-14	1.00000	6.82305e-14	1.00000

100.000000 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28297e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.816017	0.816017	0.00000	0.00000
PhCH2CCH+H	0.109584	0.925601	0.595618	0.595618
PhCHCCH2+H	0.0267098	0.952311	0.145175	0.740793
Ph+Allene	0.0193046	0.971615	0.104926	0.845719
Indene+H	0.0160485	0.987664	0.0872278	0.932947
PAH3+H	0.00329013	0.990954	0.0178828	0.950830
PAH7+H	0.00121791	0.992172	0.00661967	0.957449
PAH9+H	0.000864002	0.993036	0.00469609	0.962145
PhCCH+CH3	0.000720156	0.993756	0.00391425	0.966060
rad19anti	0.000708492	0.994465	0.00385085	0.969910
Ph+MeAc	0.000663933	0.995129	0.00360866	0.973519
rad50	0.000616862	0.995745	0.00335281	0.976872
rad38	0.000560139	0.996306	0.00304451	0.979916
rad39	0.000491039	0.996797	0.00266893	0.982585
rad51	0.000408503	0.997205	0.00222033	0.984806
rad30	0.000396478	0.997602	0.00215497	0.986961
rad35	0.000343095	0.997945	0.00186481	0.988825
rad46	0.000239251	0.998184	0.00130040	0.990126
rad59	0.000231903	0.998416	0.00126046	0.991386
rad67	0.000214260	0.998630	0.00116456	0.992551
PhCCCH3+H	0.000213580	0.998844	0.00116087	0.993712
rad71	0.000187854	0.999031	0.00102104	0.994733
rad19syn	0.000163942	0.999195	0.000891067	0.995624
PAH10+CH3	0.000121536	0.999317	0.000660582	0.996284
rad60syn	0.000108396	0.999425	0.000589161	0.996874
rad60anti	8.05427e-05	0.999506	0.000437772	0.997311
rad52	7.82965e-05	0.999584	0.000425563	0.997737
rad58	7.77572e-05	0.999662	0.000422632	0.998160
PAH1+H	7.70004e-05	0.999739	0.000418519	0.998578
rad73	7.03580e-05	0.999809	0.000382415	0.998961
PhcycC3H3_A+H	3.98814e-05	0.999849	0.000216766	0.999177
rad70	3.09908e-05	0.999880	0.000168444	0.999346
PAH8+H	2.94357e-05	0.999910	0.000159991	0.999506
rad72	2.58306e-05	0.999935	0.000140396	0.999646
rad37	1.30847e-05	0.999949	7.11192e-05	0.999717
rad34	1.30498e-05	0.999962	7.09290e-05	0.999788
rad54	1.00584e-05	0.999972	5.46703e-05	0.999843
rad65	9.63697e-06	0.999981	5.23796e-05	0.999895
rad68syn	3.67779e-06	0.999985	1.99898e-05	0.999915
rad68anti	2.34155e-06	0.999987	1.27269e-05	0.999928
rad40syn	2.31360e-06	0.999990	1.25750e-05	0.999941
rad64	2.19078e-06	0.999992	1.19075e-05	0.999952
rad56	1.94741e-06	0.999994	1.05847e-05	0.999963
rad40anti	1.74691e-06	0.999996	9.49496e-06	0.999972
rad53	1.18744e-06	0.999997	6.45407e-06	0.999979
rad55	1.16170e-06	0.999998	6.31418e-06	0.999985
rad62	1.07271e-06	0.999999	5.83047e-06	0.999991
rad61	9.59664e-07	1.000000	5.21604e-06	0.999996
rad43	4.20278e-07	1.00000	2.28433e-06	0.999999
rad42	2.24299e-07	1.00000	1.21913e-06	1.000000
rad41	9.47631e-08	1.00000	5.15063e-07	1.00000
rad23	1.88867e-09	1.00000	1.02654e-08	1.00000
rad20	1.55983e-09	1.00000	8.47809e-09	1.00000

rad9	8.96401e-10	1.00000	4.87218e-09	1.00000
rad45	7.64007e-10	1.00000	4.15259e-09	1.00000
rad6	6.11212e-10	1.00000	3.32210e-09	1.00000
rad21	6.03120e-10	1.00000	3.27812e-09	1.00000
rad11	3.68004e-10	1.00000	2.00020e-09	1.00000
rad22	3.61590e-10	1.00000	1.96534e-09	1.00000
rad8	1.77067e-10	1.00000	9.62406e-10	1.00000
rad36	1.44728e-10	1.00000	7.86638e-10	1.00000
rad18	1.27490e-10	1.00000	6.92946e-10	1.00000
rad15	8.52599e-11	1.00000	4.63411e-10	1.00000
rad47	7.97241e-11	1.00000	4.33322e-10	1.00000
rad12	4.90460e-11	1.00000	2.66578e-10	1.00000
rad24	4.12877e-11	1.00000	2.24410e-10	1.00000
rad28	2.99717e-11	1.00000	1.62905e-10	1.00000
rad7	2.74023e-11	1.00000	1.48939e-10	1.00000
rad26	9.73164e-12	1.00000	5.28941e-11	1.00000
rad13	4.77119e-12	1.00000	2.59327e-11	1.00000
rad10	4.38797e-12	1.00000	2.38498e-11	1.00000
rad25	3.80495e-12	1.00000	2.06810e-11	1.00000
rad5	1.82429e-12	1.00000	9.91551e-12	1.00000
rad33	5.48080e-13	1.00000	2.97897e-12	1.00000
rad2	3.87223e-13	1.00000	2.10466e-12	1.00000
rad1	2.12740e-13	1.00000	1.15630e-12	1.00000
rad14	8.51689e-14	1.00000	4.62917e-13	1.00000
rad27	4.02487e-14	1.00000	2.18762e-13	1.00000
rad3	1.37388e-14	1.00000	7.46742e-14	1.00000
rad4	7.62376e-15	1.00000	4.14372e-14	1.00000

10.0000000 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.558296	0.558296	0.558297	0.558297
Indene+H	0.358660	0.916956	0.358661	0.916958
rad18	0.0355676	0.952524	0.0355676	0.952526
rad23	0.0229571	0.975481	0.0229571	0.975483
rad45	0.0161474	0.991628	0.0161474	0.991630
rad20	0.00446394	0.996092	0.00446395	0.996094
rad21	0.00274537	0.998837	0.00274537	0.998839
rad36	0.00100589	0.999843	0.00100589	0.999845
rad11	0.000153150	0.999996	0.000153150	0.999998
rad6	1.96180e-06	0.999998	1.96181e-06	1.00000
Benzyl+C2H2	7.51988e-07	0.999999	0.00000	1.00000
rad24	1.37055e-10	0.999999	1.37056e-10	1.00000
rad7	1.38215e-11	0.999999	1.38215e-11	1.00000
rad13	2.47845e-12	0.999999	2.47845e-12	1.00000
rad33	2.69083e-15	0.999999	2.69083e-15	1.00000
rad3	1.36639e-16	0.999999	1.36639e-16	1.00000
rad30	1.36447e-16	0.999999	1.36447e-16	1.00000
rad35	1.34241e-16	0.999999	1.34241e-16	1.00000
rad4	6.90837e-17	0.999999	6.90838e-17	1.00000
PAH9+H	3.66670e-17	0.999999	3.66671e-17	1.00000
rad38	3.60108e-18	0.999999	3.60108e-18	1.00000
rad25	1.12336e-19	0.999999	1.12336e-19	1.00000
rad15	2.75143e-20	0.999999	2.75144e-20	1.00000
rad2	2.48551e-20	0.999999	2.48551e-20	1.00000
rad1	1.57121e-21	0.999999	1.57122e-21	1.00000
rad28	2.02147e-22	0.999999	2.02147e-22	1.00000
rad10	2.14934e-24	0.999999	2.14934e-24	1.00000
PhCHCCH2+H	6.35942e-26	0.999999	6.35942e-26	1.00000
rad31	3.49276e-26	0.999999	3.49276e-26	1.00000
rad46	9.06713e-27	0.999999	9.06714e-27	1.00000
rad14	3.40385e-28	0.999999	3.40385e-28	1.00000
PhCCH+CH3	1.07973e-28	0.999999	1.07973e-28	1.00000
rad9	5.81736e-29	0.999999	5.81736e-29	1.00000
rad27	1.35369e-29	0.999999	1.35369e-29	1.00000
rad26	5.56726e-32	0.999999	5.56727e-32	1.00000
PhCCCH3+H	1.25842e-32	0.999999	1.25842e-32	1.00000
Ph+Allene	2.31133e-33	0.999999	2.31133e-33	1.00000
rad8	7.48789e-34	0.999999	7.48790e-34	1.00000
rad60syn	1.88415e-35	0.999999	1.88415e-35	1.00000
Ph+MeAc	1.24744e-36	0.999999	1.24744e-36	1.00000
rad60anti	5.03110e-37	0.999999	5.03110e-37	1.00000
PAH7+H	2.14310e-37	0.999999	2.14311e-37	1.00000
rad39	5.20573e-39	0.999999	5.20573e-39	1.00000
PhCH2CCH+H	1.22660e-39	0.999999	1.22660e-39	1.00000

rad12	5.22216e-43	0.999999	5.22217e-43	1.00000
rad50	2.20138e-43	0.999999	2.20138e-43	1.00000
PAH3+H	1.56653e-45	0.999999	1.56653e-45	1.00000
rad59	7.96139e-46	0.999999	7.96139e-46	1.00000
rad5	7.30048e-47	0.999999	7.30049e-47	1.00000
rad37	2.24219e-47	0.999999	2.24220e-47	1.00000
rad52	2.58661e-52	0.999999	2.58661e-52	1.00000
rad19syn	7.78662e-54	0.999999	7.78663e-54	1.00000
rad54	2.57136e-57	0.999999	2.57136e-57	1.00000
rad51	1.61009e-57	0.999999	1.61010e-57	1.00000
rad43	5.62893e-59	0.999999	5.62894e-59	1.00000
PAH10+CH3	8.04662e-60	0.999999	8.04663e-60	1.00000
rad62	5.30959e-60	0.999999	5.30959e-60	1.00000
rad65	1.64013e-61	0.999999	1.64013e-61	1.00000
rad70	1.19682e-63	0.999999	1.19682e-63	1.00000
PhcycC3H3_A+H	7.16041e-64	0.999999	7.16041e-64	1.00000
rad55	3.43953e-64	0.999999	3.43954e-64	1.00000
rad58	2.24568e-65	0.999999	2.24568e-65	1.00000
rad47	2.31650e-67	0.999999	2.31651e-67	1.00000
PAH1+H	2.57326e-68	0.999999	2.57326e-68	1.00000
rad34	3.43136e-69	0.999999	3.43136e-69	1.00000
rad42	2.62414e-72	0.999999	2.62414e-72	1.00000
rad41	4.33266e-73	0.999999	4.33266e-73	1.00000

10.0000000 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15918e-108 (1.00)	1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
rad22	0.494154	0.494154	0.494154	0.494154
Indene+H	0.447670	0.941824	0.447670	0.941824
rad23	0.0390938	0.980918	0.0390938	0.980918
rad45	0.00998037	0.990898	0.00998038	0.990898
rad18	0.00741669	0.998315	0.00741670	0.998315
rad36	0.000621518	0.998936	0.000621519	0.998936
rad20	0.000553050	0.999489	0.000553051	0.999489
rad21	0.000338530	0.999828	0.000338530	0.999828
rad11	0.000166999	0.999995	0.000167000	0.999995
rad6	4.48437e-06	0.999999	4.48437e-06	0.999999
Benzyl+C2H2	9.86783e-07	1.00000	0.00000	0.999999
rad24	8.01525e-11	1.00000	8.01526e-11	0.999999
rad7	6.25280e-11	1.00000	6.25280e-11	0.999999
rad13	4.71945e-12	1.00000	4.71945e-12	0.999999
rad33	5.28161e-15	1.00000	5.28161e-15	0.999999
rad3	6.89050e-16	1.00000	6.89050e-16	0.999999
rad35	5.49150e-16	1.00000	5.49151e-16	0.999999
rad4	3.48416e-16	1.00000	3.48416e-16	0.999999
PAH9+H	1.43915e-16	1.00000	1.43915e-16	0.999999
rad30	6.22636e-17	1.00000	6.22637e-17	0.999999
rad38	5.82664e-18	1.00000	5.82665e-18	0.999999
rad2	2.48953e-19	1.00000	2.48953e-19	0.999999
rad25	2.08445e-19	1.00000	2.08446e-19	0.999999
rad1	1.57452e-20	1.00000	1.57452e-20	0.999999
rad15	9.21449e-21	1.00000	9.21450e-21	0.999999
rad28	8.67800e-22	1.00000	8.67801e-22	0.999999
rad10	4.15921e-23	1.00000	4.15922e-23	0.999999
rad31	1.77261e-25	1.00000	1.77262e-25	0.999999
PhCHCCH2+H	8.04205e-26	1.00000	8.04205e-26	0.999999
rad46	2.25087e-26	1.00000	2.25087e-26	0.999999
rad14	2.69674e-27	1.00000	2.69674e-27	0.999999
PhCCH+CH3	7.84297e-28	1.00000	7.84298e-28	0.999999
rad27	2.18514e-28	1.00000	2.18514e-28	0.999999
rad9	5.50108e-29	1.00000	5.50109e-29	0.999999
rad26	1.78885e-30	1.00000	1.78885e-30	0.999999
PhCCCH3+H	1.78909e-31	1.00000	1.78910e-31	0.999999
Ph+Allene	1.09729e-33	1.00000	1.09729e-33	0.999999
rad8	4.25954e-34	1.00000	4.25954e-34	0.999999
Ph+MeAc	9.77564e-36	1.00000	9.77565e-36	0.999999
rad60syn	6.14986e-36	1.00000	6.14987e-36	0.999999
PAH7+H	1.26999e-36	1.00000	1.26999e-36	0.999999
rad60anti	1.44759e-37	1.00000	1.44759e-37	0.999999
rad39	2.95490e-38	1.00000	2.95490e-38	0.999999
PhCH2CCH+H	3.34368e-40	1.00000	3.34368e-40	0.999999
rad12	2.03422e-41	1.00000	2.03422e-41	0.999999
rad50	4.22312e-43	1.00000	4.22312e-43	0.999999
PAH3+H	1.62128e-45	1.00000	1.62128e-45	0.999999
rad59	8.07456e-46	1.00000	8.07456e-46	0.999999

rad37	4.88980e-46	1.00000	4.88980e-46	0.999999
rad5	4.86697e-46	1.00000	4.86697e-46	0.999999
rad52	3.31055e-52	1.00000	3.31056e-52	0.999999
rad19syn	1.99534e-53	1.00000	1.99534e-53	0.999999
rad54	6.64664e-57	1.00000	6.64665e-57	0.999999
rad51	1.34356e-57	1.00000	1.34356e-57	0.999999
rad43	2.86816e-58	1.00000	2.86816e-58	0.999999
PAH10+CH3	9.07881e-59	1.00000	9.07882e-59	0.999999
rad62	1.57000e-59	1.00000	1.57000e-59	0.999999
rad65	1.00556e-61	1.00000	1.00556e-61	0.999999
rad70	2.84368e-63	1.00000	2.84369e-63	0.999999
PhcycC3H3_A+H	1.89390e-63	1.00000	1.89391e-63	0.999999
rad55	9.08130e-64	1.00000	9.08131e-64	0.999999
rad58	1.15880e-65	1.00000	1.15880e-65	0.999999
PAH1+H	1.24924e-67	1.00000	1.24924e-67	0.999999
rad47	4.55816e-68	1.00000	4.55816e-68	0.999999
rad34	8.71384e-69	1.00000	8.71384e-69	0.999999
rad42	7.44755e-72	1.00000	7.44756e-72	0.999999
rad41	1.40389e-72	1.00000	1.40389e-72	0.999999

10.0000000 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.502661	0.502661	0.502662	0.502662
rad22	0.437267	0.939928	0.437267	0.939929
rad23	0.0498423	0.989770	0.0498424	0.989771
rad45	0.00695646	0.996727	0.00695647	0.996728
rad18	0.00240863	0.999135	0.00240863	0.999136
rad36	0.000432942	0.999568	0.000432943	0.999569
rad11	0.000174348	0.999743	0.000174348	0.999744
rad20	0.000154423	0.999897	0.000154424	0.999898
rad21	9.44852e-05	0.999992	9.44854e-05	0.999993
rad6	7.25353e-06	0.999999	7.25354e-06	1.000000
Benzyl+C2H2	1.45221e-06	1.00000	0.00000	1.000000
rad7	1.49699e-10	1.00000	1.49699e-10	1.000000
rad24	5.48780e-11	1.00000	5.48781e-11	1.000000
rad13	6.90437e-12	1.00000	6.90438e-12	1.000000
rad33	7.89970e-15	1.00000	7.89971e-15	1.000000
rad3	1.85982e-15	1.00000	1.85982e-15	1.000000
rad35	1.40618e-15	1.00000	1.40618e-15	1.000000
rad4	9.40692e-16	1.00000	9.40694e-16	1.000000
PAH9+H	3.64017e-16	1.00000	3.64018e-16	1.000000
rad30	5.72332e-17	1.00000	5.72333e-17	1.000000
rad38	1.03534e-17	1.00000	1.03534e-17	1.000000
rad2	1.07130e-18	1.00000	1.07130e-18	1.000000
rad25	3.94529e-19	1.00000	3.94530e-19	1.000000
rad1	6.78360e-20	1.00000	6.78361e-20	1.000000
rad15	7.82216e-21	1.00000	7.82217e-21	1.000000
rad28	2.61844e-21	1.00000	2.61844e-21	1.000000
rad10	2.72213e-22	1.00000	2.72213e-22	1.000000
rad31	4.87250e-25	1.00000	4.87251e-25	1.000000
PhCHCCH2+H	1.17859e-25	1.00000	1.17859e-25	1.000000
rad46	5.28741e-26	1.00000	5.28742e-26	1.000000
rad14	1.17356e-26	1.00000	1.17356e-26	1.000000
PhCCH+CH3	3.28953e-27	1.00000	3.28954e-27	1.000000
rad27	1.37980e-27	1.00000	1.37980e-27	1.000000
rad9	6.68988e-29	1.00000	6.68989e-29	1.000000
rad26	1.70543e-29	1.00000	1.70543e-29	1.000000
PhCCCH3+H	1.10746e-30	1.00000	1.10746e-30	1.000000
rad8	1.16678e-33	1.00000	1.16678e-33	1.000000
Ph+Allene	9.19951e-34	1.00000	9.19952e-34	1.000000
Ph+MeAc	4.78523e-35	1.00000	4.78523e-35	1.000000
PAH7+H	4.92756e-36	1.00000	4.92756e-36	1.000000
rad60syn	4.33636e-36	1.00000	4.33637e-36	1.000000
rad60anti	1.15351e-37	1.00000	1.15351e-37	1.000000
rad39	1.13855e-37	1.00000	1.13855e-37	1.000000
PhCH2CCH+H	3.82436e-40	1.00000	3.82437e-40	1.000000
rad12	2.23801e-40	1.00000	2.23801e-40	1.000000
rad50	8.47982e-43	1.00000	8.47983e-43	1.000000
rad37	4.10127e-45	1.00000	4.10128e-45	1.000000
PAH3+H	3.09960e-45	1.00000	3.09960e-45	1.000000
rad5	2.26683e-45	1.00000	2.26683e-45	1.000000
rad59	1.54602e-45	1.00000	1.54602e-45	1.000000
rad52	5.09057e-52	1.00000	5.09058e-52	1.000000
rad19syn	5.87442e-53	1.00000	5.87443e-53	1.000000

rad54	2.00682e-56	1.00000	2.00682e-56	1.000000
rad51	1.56048e-57	1.00000	1.56048e-57	1.000000
rad43	1.29272e-57	1.00000	1.29272e-57	1.000000
PAH10+CH3	6.17068e-58	1.00000	6.17069e-58	1.000000
rad62	5.34162e-59	1.00000	5.34162e-59	1.000000
rad65	9.59819e-62	1.00000	9.59820e-62	1.000000
rad70	8.85778e-63	1.00000	8.85780e-63	1.000000
PhcycC3H3_A+H	6.04422e-63	1.00000	6.04423e-63	1.000000
rad55	2.89224e-63	1.00000	2.89225e-63	1.000000
rad58	1.17111e-65	1.00000	1.17111e-65	1.000000
PAH1+H	5.60441e-67	1.00000	5.60442e-67	1.000000
rad34	2.86736e-68	1.00000	2.86736e-68	1.000000
rad47	2.24765e-68	1.00000	2.24765e-68	1.000000
rad42	2.56502e-71	1.00000	2.56503e-71	1.000000
rad41	5.08330e-72	1.00000	5.08330e-72	1.000000

10.000000 Pa, 50.000000 K

Rate constant	True (fraction)		Effective (fraction)	
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Total	2.31816e-70	(1.00)	2.31816e-70	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.547210	0.547210	0.547212	0.547212
rad22	0.387830	0.935040	0.387831	0.935043
rad23	0.0579064	0.992946	0.0579065	0.992950
rad45	0.00542472	0.998371	0.00542473	0.998374
rad18	0.000998574	0.999370	0.000998576	0.999373
rad36	0.000337348	0.999707	0.000337348	0.999710
rad11	0.000180912	0.999888	0.000180912	0.999891
rad20	6.16187e-05	0.999950	6.16189e-05	0.999953
rad21	3.77305e-05	0.999987	3.77306e-05	0.999990
rad6	1.04309e-05	0.999998	1.04309e-05	1.000000
Benzyl+C2H2	2.15879e-06	1.000000	0.000000	1.000000
rad7	2.85791e-10	1.000000	2.85791e-10	1.000000
rad24	4.24787e-11	1.000000	4.24788e-11	1.000000
rad13	9.28757e-12	1.000000	9.28759e-12	1.000000
rad33	1.08203e-14	1.000000	1.08203e-14	1.000000
rad3	4.08776e-15	1.000000	4.08777e-15	1.000000
rad35	3.22382e-15	1.000000	3.22382e-15	1.000000
rad4	2.06849e-15	1.000000	2.06849e-15	1.000000
PAH9+H	8.42028e-16	1.000000	8.42030e-16	1.000000
rad30	8.32743e-17	1.000000	8.32745e-17	1.000000
rad38	2.11510e-17	1.000000	2.11511e-17	1.000000
rad2	3.50956e-18	1.000000	3.50957e-18	1.000000
rad25	8.40240e-19	1.000000	8.40242e-19	1.000000
rad1	2.22616e-19	1.000000	2.22617e-19	1.000000
rad15	1.11518e-20	1.000000	1.11518e-20	1.000000
rad28	7.59178e-21	1.000000	7.59180e-21	1.000000
rad10	1.25438e-21	1.000000	1.25438e-21	1.000000
rad31	1.09958e-24	1.000000	1.09958e-24	1.000000
PhCHCCH2+H	2.12669e-25	1.000000	2.12669e-25	1.000000
rad46	1.28691e-25	1.000000	1.28692e-25	1.000000
rad14	4.52464e-26	1.000000	4.52465e-26	1.000000
PhCCH+CH3	1.26201e-26	1.000000	1.26201e-26	1.000000
rad27	6.69047e-27	1.000000	6.69049e-27	1.000000
rad26	1.13167e-28	1.000000	1.13167e-28	1.000000
rad9	1.07089e-28	1.000000	1.07090e-28	1.000000
PhCCCH3+H	5.65279e-30	1.000000	5.65280e-30	1.000000
rad8	5.13825e-33	1.000000	5.13826e-33	1.000000
Ph+Allene	1.22652e-33	1.000000	1.22652e-33	1.000000
Ph+MeAc	2.23717e-34	1.000000	2.23717e-34	1.000000
PAH7+H	1.85797e-35	1.000000	1.85797e-35	1.000000
rad60syn	5.87819e-36	1.000000	5.87821e-36	1.000000
rad39	4.33359e-37	1.000000	4.33360e-37	1.000000
rad60anti	1.89945e-37	1.000000	1.89945e-37	1.000000
rad12	1.76479e-39	1.000000	1.76480e-39	1.000000
PhCH2CCH+H	9.06908e-40	1.000000	9.06910e-40	1.000000
rad50	2.03134e-42	1.000000	2.03135e-42	1.000000
rad37	2.87715e-44	1.000000	2.87716e-44	1.000000
rad5	1.09866e-44	1.000000	1.09866e-44	1.000000
PAH3+H	7.30223e-45	1.000000	7.30224e-45	1.000000
rad59	3.64780e-45	1.000000	3.64781e-45	1.000000
rad52	1.03719e-51	1.000000	1.03719e-51	1.000000
rad19syn	2.12552e-52	1.000000	2.12552e-52	1.000000
rad54	7.53703e-56	1.000000	7.53705e-56	1.000000
rad43	6.72815e-57	1.000000	6.72817e-57	1.000000
PAH10+CH3	4.21499e-57	1.000000	4.21499e-57	1.000000
rad51	2.66938e-57	1.000000	2.66939e-57	1.000000

rad62	2.27769e-58	1.000000	2.27770e-58	1.00000
rad65	1.45374e-61	1.000000	1.45374e-61	1.00000
rad70	3.56818e-62	1.000000	3.56819e-62	1.00000
PhcycC3H3_A+H	2.46126e-62	1.000000	2.46127e-62	1.00000
rad55	1.17457e-62	1.000000	1.17457e-62	1.00000
rad58	2.40796e-65	1.000000	2.40797e-65	1.00000
PAH1+H	2.90878e-66	1.000000	2.90879e-66	1.00000
rad34	1.23066e-67	1.000000	1.23066e-67	1.00000
rad47	2.23235e-68	1.000000	2.23235e-68	1.00000
rad42	1.15260e-70	1.000000	1.15260e-70	1.00000
rad41	2.37594e-71	1.000000	2.37594e-71	1.00000

10.0000000 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.44107e-61 (1.00)	8.44104e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.585579	0.585579	0.585581	0.585581
rad22	0.344385	0.929964	0.344386	0.929967
rad23	0.0643949	0.994359	0.0643951	0.994362
rad45	0.00461813	0.998977	0.00461815	0.998980
rad18	0.000482758	0.999460	0.000482759	0.999463
rad36	0.000286950	0.999747	0.000286951	0.999750
rad11	0.000187399	0.999934	0.000187400	0.999937
rad20	3.00511e-05	0.999964	3.00512e-05	0.999967
rad21	1.84227e-05	0.999983	1.84228e-05	0.999986
rad6	1.41517e-05	0.999997	1.41517e-05	1.000000
Benzyl+C2H2	3.12530e-06	1.000000	0.00000	1.000000
rad7	4.86658e-10	1.000000	4.86659e-10	1.000000
rad24	3.60601e-11	1.000000	3.60602e-11	1.000000
rad13	1.19988e-11	1.000000	1.19988e-11	1.000000
rad33	1.41984e-14	1.000000	1.41984e-14	1.000000
rad3	8.17759e-15	1.000000	8.17762e-15	1.000000
rad35	7.05074e-15	1.000000	7.05076e-15	1.000000
rad4	4.14028e-15	1.000000	4.14029e-15	1.000000
PAH9+H	1.95630e-15	1.000000	1.95630e-15	1.000000
rad30	2.13752e-16	1.000000	2.13753e-16	1.000000
rad38	5.04501e-17	1.000000	5.04502e-17	1.000000
rad2	1.02747e-17	1.000000	1.02748e-17	1.000000
rad25	2.14175e-18	1.000000	2.14176e-18	1.000000
rad1	6.53145e-19	1.000000	6.53147e-19	1.000000
rad15	2.63766e-20	1.000000	2.63767e-20	1.000000
rad28	2.37341e-20	1.000000	2.37342e-20	1.000000
rad10	5.05413e-21	1.000000	5.05414e-21	1.000000
rad31	2.27251e-24	1.000000	2.27252e-24	1.000000
PhCHCCH2+H	4.89826e-25	1.000000	4.89827e-25	1.000000
rad46	3.47373e-25	1.000000	3.47374e-25	1.000000
rad14	1.82124e-25	1.000000	1.82125e-25	1.000000
PhCCH+CH3	5.17997e-26	1.000000	5.17999e-26	1.000000
rad27	3.09385e-26	1.000000	3.09386e-26	1.000000
rad26	6.87943e-28	1.000000	6.87945e-28	1.000000
rad9	2.28883e-28	1.000000	2.28884e-28	1.000000
PhCCCH3+H	2.92969e-29	1.000000	2.92970e-29	1.000000
rad8	2.60089e-32	1.000000	2.60090e-32	1.000000
Ph+Allene	2.47362e-33	1.000000	2.47363e-33	1.000000
Ph+MeAc	1.15411e-33	1.000000	1.15412e-33	1.000000
PAH7+H	7.75187e-35	1.000000	7.75190e-35	1.000000
rad60syn	1.28255e-35	1.000000	1.28255e-35	1.000000
rad39	1.84098e-36	1.000000	1.84098e-36	1.000000
rad60anti	4.75249e-37	1.000000	4.75250e-37	1.000000
rad12	1.32700e-38	1.000000	1.32700e-38	1.000000
PhCH2CCH+H	3.11947e-39	1.000000	3.11948e-39	1.000000
rad50	5.98777e-42	1.000000	5.98778e-42	1.000000
rad37	2.11869e-43	1.000000	2.11870e-43	1.000000
rad5	6.24854e-44	1.000000	6.24855e-44	1.000000
PAH3+H	2.13781e-44	1.000000	2.13782e-44	1.000000
rad59	1.06859e-44	1.000000	1.06859e-44	1.000000
rad52	2.82446e-51	1.000000	2.82447e-51	1.000000
rad19syn	9.69267e-52	1.000000	9.69270e-52	1.000000
rad54	3.59683e-55	1.000000	3.59684e-55	1.000000
rad43	4.39838e-56	1.000000	4.39839e-56	1.000000
PAH10+CH3	3.36510e-56	1.000000	3.36511e-56	1.000000
rad51	6.61223e-57	1.000000	6.61225e-57	1.000000
rad62	1.26000e-57	1.000000	1.26001e-57	1.000000
rad65	3.36532e-61	1.000000	3.36533e-61	1.000000
rad70	1.86228e-61	1.000000	1.86229e-61	1.000000
PhcycC3H3_A+H	1.29589e-61	1.000000	1.29590e-61	1.000000

rad55	6.16434e-62	1.000000	6.16436e-62	1.000000
rad58	8.96505e-65	1.000000	8.96508e-65	1.000000
PAH1+H	1.85908e-65	1.000000	1.85909e-65	1.000000
rad34	6.91662e-67	1.000000	6.91664e-67	1.000000
rad47	3.94533e-68	1.000000	3.94534e-68	1.000000
rad42	6.83082e-70	1.000000	6.83084e-70	1.000000
rad41	1.46707e-70	1.000000	1.46707e-70	1.000000

10.0000000 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.61998e-54 (1.00)	5.61996e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.619354	0.619354	0.619357	0.619357
rad22	0.305855	0.925209	0.305856	0.925213
rad23	0.0698425	0.995051	0.0698428	0.995056
rad45	0.00418527	0.999237	0.00418529	0.999241
rad36	0.000259850	0.999497	0.000259852	0.999501
rad18	0.000259332	0.999756	0.000259334	0.999760
rad11	0.000193962	0.999950	0.000193963	0.999954
rad6	1.85729e-05	0.999968	1.85730e-05	0.999973
rad20	1.66626e-05	0.999985	1.66627e-05	0.999989
rad21	1.02287e-05	0.999995	1.02288e-05	1.000000
Benzyl+C2H2	4.40363e-06	1.000000	0.00000	1.000000
rad7	7.75347e-10	1.000000	7.75351e-10	1.000000
rad24	3.26693e-11	1.000000	3.26695e-11	1.000000
rad13	1.51594e-11	1.000000	1.51594e-11	1.000000
rad33	1.81886e-14	1.000000	1.81887e-14	1.000000
rad3	1.56261e-14	1.000000	1.56262e-14	1.000000
rad35	1.47372e-14	1.000000	1.47373e-14	1.000000
rad4	7.91645e-15	1.000000	7.91648e-15	1.000000
PAH9+H	4.64768e-15	1.000000	4.64770e-15	1.000000
rad30	1.60442e-15	1.000000	1.60443e-15	1.000000
rad38	1.46339e-16	1.000000	1.46340e-16	1.000000
rad2	2.89321e-17	1.000000	2.89322e-17	1.000000
rad25	7.37117e-18	1.000000	7.37120e-18	1.000000
rad1	1.84373e-18	1.000000	1.84374e-18	1.000000
rad15	2.09017e-19	1.000000	2.09018e-19	1.000000
rad28	8.78139e-20	1.000000	8.78143e-20	1.000000
rad10	1.97836e-20	1.000000	1.97837e-20	1.000000
rad31	4.50900e-24	1.000000	4.50902e-24	1.000000
PhCHCCH2+H	1.60030e-24	1.000000	1.60031e-24	1.000000
rad46	1.12599e-24	1.000000	1.12600e-24	1.000000
rad14	8.71653e-25	1.000000	8.71657e-25	1.000000
PhCCH+CH3	2.60193e-25	1.000000	2.60195e-25	1.000000
rad27	1.54761e-25	1.000000	1.54761e-25	1.000000
rad26	4.55093e-27	1.000000	4.55095e-27	1.000000
rad9	7.16154e-28	1.000000	7.16157e-28	1.000000
PhCCCH3+H	1.80201e-28	1.000000	1.80202e-28	1.000000
rad8	1.63085e-31	1.000000	1.63085e-31	1.000000
Ph+Allene	7.89544e-33	1.000000	7.89548e-33	1.000000
Ph+MeAc	7.51945e-33	1.000000	7.51948e-33	1.000000
PAH7+H	4.06703e-34	1.000000	4.06705e-34	1.000000
rad60syn	4.13027e-35	1.000000	4.13029e-35	1.000000
rad39	9.88652e-36	1.000000	9.88656e-36	1.000000
rad60anti	1.64393e-36	1.000000	1.64394e-36	1.000000
rad12	1.15340e-37	1.000000	1.15341e-37	1.000000
PhCH2CCH+H	1.51307e-38	1.000000	1.51307e-38	1.000000
rad50	2.30034e-41	1.000000	2.30035e-41	1.000000
rad37	1.93662e-42	1.000000	1.93663e-42	1.000000
rad5	4.72341e-43	1.000000	4.72343e-43	1.000000
PAH3+H	8.21472e-44	1.000000	8.21476e-44	1.000000
rad59	4.10497e-44	1.000000	4.10499e-44	1.000000
rad52	1.07445e-50	1.000000	1.07445e-50	1.000000
rad19syn	6.03174e-51	1.000000	6.03177e-51	1.000000
rad54	2.35539e-54	1.000000	2.35540e-54	1.000000
rad43	4.05040e-55	1.000000	4.05042e-55	1.000000
PAH10+CH3	3.61692e-55	1.000000	3.61693e-55	1.000000
rad51	2.44353e-56	1.000000	2.44354e-56	1.000000
rad62	9.93782e-57	1.000000	9.93787e-57	1.000000
rad70	1.34966e-60	1.000000	1.34967e-60	1.000000
rad65	1.21344e-60	1.000000	1.21345e-60	1.000000
PhcycC3H3_A+H	9.47493e-61	1.000000	9.47497e-61	1.000000
rad55	4.49070e-61	1.000000	4.49072e-61	1.000000
rad58	5.55815e-64	1.000000	5.55817e-64	1.000000
PAH1+H	1.60385e-64	1.000000	1.60386e-64	1.000000
rad34	5.44345e-66	1.000000	5.44348e-66	1.000000

rad47	1.21554e-67	1.000000	1.21555e-67	1.000000
rad42	5.72755e-69	1.000000	5.72758e-69	1.000000
rad41	1.29272e-69	1.000000	1.29272e-69	1.000000

10.0000000 Pa, 80.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	7.28864e-49	(1.00)	7.28860e-49	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.649418	0.649418	0.649422	0.649422
rad22	0.271445	0.920863	0.271447	0.920869
rad23	0.0745405	0.995403	0.0745409	0.995410
rad45	0.00395410	0.999358	0.00395412	0.999364
rad36	0.000245329	0.999603	0.000245331	0.999609
rad11	0.000200637	0.999804	0.000200638	0.999810
rad18	0.000150371	0.999954	0.000150372	0.999960
rad6	2.38927e-05	0.999978	2.38928e-05	0.999984
rad20	1.00954e-05	0.999988	1.00954e-05	0.999994
rad21	6.20604e-06	0.999994	6.20608e-06	1.000000
Benzyl+C2H2	6.07395e-06	1.000000	0.000000	1.000000
rad7	1.18484e-09	1.000000	1.18485e-09	1.000000
rad24	3.09038e-11	1.000000	3.09040e-11	1.000000
rad13	1.89103e-11	1.000000	1.89105e-11	1.000000
rad35	2.93735e-14	1.000000	2.93736e-14	1.000000
rad3	2.92647e-14	1.000000	2.92648e-14	1.000000
rad33	2.29767e-14	1.000000	2.29768e-14	1.000000
rad30	1.67169e-14	1.000000	1.67170e-14	1.000000
rad4	1.48366e-14	1.000000	1.48367e-14	1.000000
PAH9+H	1.09945e-14	1.000000	1.09946e-14	1.000000
rad38	4.81832e-16	1.000000	4.81835e-16	1.000000
rad2	8.15583e-17	1.000000	8.15587e-17	1.000000
rad25	3.99544e-17	1.000000	3.99546e-17	1.000000
rad15	5.57896e-18	1.000000	5.57899e-18	1.000000
rad1	5.21188e-18	1.000000	5.21191e-18	1.000000
rad28	3.96982e-19	1.000000	3.96984e-19	1.000000
rad10	7.98299e-20	1.000000	7.98304e-20	1.000000
PhCHCCH2+H	1.00465e-23	1.000000	1.00466e-23	1.000000
rad31	8.80629e-24	1.000000	8.80635e-24	1.000000
rad14	5.56943e-24	1.000000	5.56946e-24	1.000000
rad46	5.00216e-24	1.000000	5.00219e-24	1.000000
PhCCH+CH3	1.87054e-24	1.000000	1.87055e-24	1.000000
rad27	8.86369e-25	1.000000	8.86374e-25	1.000000
rad26	3.72937e-26	1.000000	3.72939e-26	1.000000
rad9	4.33853e-27	1.000000	4.33856e-27	1.000000
PhCCCH3+H	1.55700e-27	1.000000	1.55701e-27	1.000000
rad8	1.50155e-30	1.000000	1.50156e-30	1.000000
Ph+MeAc	7.47850e-32	1.000000	7.47855e-32	1.000000
Ph+Allene	4.93195e-32	1.000000	4.93198e-32	1.000000
PAH7+H	3.25706e-33	1.000000	3.25708e-33	1.000000
rad60syn	2.33759e-34	1.000000	2.33760e-34	1.000000
rad39	8.14321e-35	1.000000	8.14326e-35	1.000000
rad60anti	8.79428e-36	1.000000	8.79433e-36	1.000000
rad12	1.43682e-36	1.000000	1.43683e-36	1.000000
PhCH2CCH+H	1.19669e-37	1.000000	1.19670e-37	1.000000
rad50	1.29890e-40	1.000000	1.29891e-40	1.000000
rad37	2.72308e-41	1.000000	2.72310e-41	1.000000
rad5	5.76774e-42	1.000000	5.76777e-42	1.000000
PAH3+H	4.67392e-43	1.000000	4.67394e-43	1.000000
rad59	2.33291e-43	1.000000	2.33292e-43	1.000000
rad52	6.39648e-50	1.000000	6.39652e-50	1.000000
rad19syn	6.07217e-50	1.000000	6.07221e-50	1.000000
rad54	2.50487e-53	1.000000	2.50489e-53	1.000000
PAH10+CH3	6.48402e-54	1.000000	6.48405e-54	1.000000
rad43	6.43405e-54	1.000000	6.43409e-54	1.000000
rad51	1.49876e-55	1.000000	1.49877e-55	1.000000
rad62	1.36063e-55	1.000000	1.36064e-55	1.000000
rad70	1.60131e-59	1.000000	1.60132e-59	1.000000
PhcycC3H3_A+H	1.13458e-59	1.000000	1.13458e-59	1.000000
rad65	7.54412e-60	1.000000	7.54416e-60	1.000000
rad55	5.35612e-60	1.000000	5.35615e-60	1.000000
rad58	6.13513e-63	1.000000	6.13517e-63	1.000000
PAH1+H	2.22603e-63	1.000000	2.22604e-63	1.000000
rad34	7.05727e-65	1.000000	7.05731e-65	1.000000
rad47	7.09452e-67	1.000000	7.09456e-67	1.000000
rad42	8.05342e-68	1.000000	8.05347e-68	1.000000
rad41	1.94751e-68	1.000000	1.94752e-68	1.000000

10.0000000 Pa, 90.0000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 6.85154e-45 (1.00) 6.85148e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.676360	0.676360	0.676366	0.676366
rad22	0.240557	0.916917	0.240559	0.916925
rad23	0.0786607	0.995578	0.0786613	0.995586
rad45	0.00383528	0.999413	0.00383532	0.999422
rad36	0.000237826	0.999651	0.000237828	0.999659
rad11	0.000207392	0.999858	0.000207393	0.999867
rad18	9.23568e-05	0.999951	9.23575e-05	0.999959
rad6	3.03597e-05	0.999981	3.03600e-05	0.999990
Benzyl+C2H2	8.24508e-06	0.999989	0.00000	0.999990
rad20	6.52372e-06	0.999996	6.52377e-06	0.999996
rad21	4.01613e-06	1.000000	4.01616e-06	1.000000
rad7	1.76109e-09	1.000000	1.76111e-09	1.000000
rad24	3.00470e-11	1.000000	3.00472e-11	1.000000
rad13	2.34214e-11	1.000000	2.34216e-11	1.000000
rad30	1.22829e-13	1.000000	1.22830e-13	1.000000
rad35	5.60907e-14	1.000000	5.60912e-14	1.000000
rad3	5.45036e-14	1.000000	5.45041e-14	1.000000
rad33	2.87905e-14	1.000000	2.87907e-14	1.000000
rad4	2.76543e-14	1.000000	2.76545e-14	1.000000
PAH9+H	2.51446e-14	1.000000	2.51448e-14	1.000000
rad38	1.55535e-15	1.000000	1.55536e-15	1.000000
rad25	2.91746e-16	1.000000	2.91748e-16	1.000000
rad2	2.34885e-16	1.000000	2.34887e-16	1.000000
rad15	1.05545e-16	1.000000	1.05546e-16	1.000000
rad1	1.50562e-17	1.000000	1.50563e-17	1.000000
rad28	1.98993e-18	1.000000	1.98994e-18	1.000000
rad10	3.40537e-19	1.000000	3.40540e-19	1.000000
PhCHCCH2+H	2.01483e-22	1.000000	2.01485e-22	1.000000
rad14	4.67333e-23	1.000000	4.67337e-23	1.000000
rad46	3.69385e-23	1.000000	3.69388e-23	1.000000
PhCCH+CH3	2.06960e-23	1.000000	2.06962e-23	1.000000
rad31	1.71662e-23	1.000000	1.71664e-23	1.000000
rad27	5.56936e-24	1.000000	5.56941e-24	1.000000
rad26	3.87953e-25	1.000000	3.87956e-25	1.000000
rad9	1.30346e-25	1.000000	1.30347e-25	1.000000
PhCCCH3+H	2.07458e-26	1.000000	2.07460e-26	1.000000
rad8	2.38456e-29	1.000000	2.38458e-29	1.000000
Ph+MeAc	1.41262e-30	1.000000	1.41264e-30	1.000000
Ph+Allene	1.14166e-30	1.000000	1.14167e-30	1.000000
PAH7+H	5.19854e-32	1.000000	5.19858e-32	1.000000
rad60syn	9.59403e-33	1.000000	9.59410e-33	1.000000
rad39	1.35613e-33	1.000000	1.35614e-33	1.000000
rad60anti	1.83040e-34	1.000000	1.83041e-34	1.000000
rad12	3.19493e-35	1.000000	3.19495e-35	1.000000
PhCH2CCH+H	2.06280e-36	1.000000	2.06282e-36	1.000000
rad50	1.35256e-39	1.000000	1.35257e-39	1.000000
rad37	7.71475e-40	1.000000	7.71481e-40	1.000000
rad5	1.48260e-40	1.000000	1.48262e-40	1.000000
PAH3+H	4.96327e-42	1.000000	4.96331e-42	1.000000
rad59	2.47231e-42	1.000000	2.47233e-42	1.000000
rad19syn	1.30123e-48	1.000000	1.30124e-48	1.000000
rad52	7.46273e-49	1.000000	7.46279e-49	1.000000
rad54	5.68657e-52	1.000000	5.68662e-52	1.000000
PAH10+CH3	2.61182e-52	1.000000	2.61184e-52	1.000000
rad43	2.36646e-52	1.000000	2.36648e-52	1.000000
rad62	4.40072e-54	1.000000	4.40076e-54	1.000000
rad51	1.90658e-54	1.000000	1.90659e-54	1.000000
rad70	4.08004e-58	1.000000	4.08007e-58	1.000000
PhcycC3H3_A+H	2.91898e-58	1.000000	2.91900e-58	1.000000
rad55	1.37215e-58	1.000000	1.37216e-58	1.000000
rad65	1.00933e-58	1.000000	1.00933e-58	1.000000
rad58	1.51362e-61	1.000000	1.51363e-61	1.000000
PAH1+H	6.56491e-62	1.000000	6.56496e-62	1.000000
rad34	1.97440e-63	1.000000	1.97442e-63	1.000000
rad47	9.71108e-66	1.000000	9.71116e-66	1.000000
rad42	2.53798e-66	1.000000	2.53800e-66	1.000000
rad41	6.84164e-67	1.000000	6.84169e-67	1.000000

10.0000000 Pa, 100.000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 1.02671e-41 (1.00) 1.02670e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.700607	0.700607	0.700615	0.700615
rad22	0.212738	0.913345	0.212740	0.913355
rad23	0.0823106	0.995656	0.0823116	0.995667
rad45	0.00378017	0.999436	0.00378021	0.999447
rad36	0.000234314	0.999670	0.000234317	0.999681
rad11	0.000214137	0.999884	0.000214139	0.999895
rad18	5.93142e-05	0.999944	5.93148e-05	0.999955
rad6	3.82804e-05	0.999982	3.82808e-05	0.999993
Benzyl+C2H2	1.10602e-05	0.999993	0.00000	0.999993
rad20	4.42572e-06	0.999997	4.42577e-06	0.999997
rad21	2.72842e-06	1.00000	2.72845e-06	1.00000
rad7	2.56621e-09	1.00000	2.56624e-09	1.00000
rad24	2.97116e-11	1.00000	2.97120e-11	1.00000
rad13	2.88969e-11	1.00000	2.88972e-11	1.00000
rad30	6.25966e-13	1.00000	6.25973e-13	1.00000
rad35	1.03489e-13	1.00000	1.03490e-13	1.00000
rad3	1.01721e-13	1.00000	1.01722e-13	1.00000
PAH9+H	5.48939e-14	1.00000	5.48945e-14	1.00000
rad4	5.16572e-14	1.00000	5.16577e-14	1.00000
rad33	3.59088e-14	1.00000	3.59092e-14	1.00000
rad38	4.54778e-15	1.00000	4.54783e-15	1.00000
rad25	1.99424e-15	1.00000	1.99426e-15	1.00000
rad15	1.16490e-15	1.00000	1.16492e-15	1.00000
rad2	6.94569e-16	1.00000	6.94576e-16	1.00000
rad1	4.46719e-17	1.00000	4.46724e-17	1.00000
rad28	9.69326e-18	1.00000	9.69337e-18	1.00000
rad10	1.52666e-18	1.00000	1.52667e-18	1.00000
PhCHCCH2+H	6.35500e-21	1.00000	6.35507e-21	1.00000
rad46	4.27059e-22	1.00000	4.27064e-22	1.00000
rad14	4.24404e-22	1.00000	4.24409e-22	1.00000
PhCCH+CH3	2.89774e-22	1.00000	2.89777e-22	1.00000
rad27	3.48218e-23	1.00000	3.48221e-23	1.00000
rad31	3.36327e-23	1.00000	3.36331e-23	1.00000
rad9	9.12836e-24	1.00000	9.12847e-24	1.00000
rad26	4.59769e-24	1.00000	4.59774e-24	1.00000
PhCCCH3+H	3.62419e-25	1.00000	3.62423e-25	1.00000
rad8	6.57109e-28	1.00000	6.57117e-28	1.00000
Ph+Allene	1.34541e-28	1.00000	1.34542e-28	1.00000
Ph+MeAc	4.98765e-29	1.00000	4.98770e-29	1.00000
rad60syn	2.66285e-30	1.00000	2.66288e-30	1.00000
PAH7+H	1.67442e-30	1.00000	1.67443e-30	1.00000
rad39	5.00078e-32	1.00000	5.00083e-32	1.00000
rad60anti	3.86722e-32	1.00000	3.86727e-32	1.00000
rad12	1.23336e-33	1.00000	1.23338e-33	1.00000
PhCH2CCH+H	9.71885e-35	1.00000	9.71896e-35	1.00000
rad37	4.70816e-38	1.00000	4.70821e-38	1.00000
rad50	3.41921e-38	1.00000	3.41925e-38	1.00000
rad5	8.59157e-39	1.00000	8.59166e-39	1.00000
PAH3+H	1.32933e-40	1.00000	1.32935e-40	1.00000
rad59	6.61245e-41	1.00000	6.61252e-41	1.00000
rad19syn	6.85785e-47	1.00000	6.85792e-47	1.00000
rad52	2.24882e-47	1.00000	2.24884e-47	1.00000
rad54	3.18210e-50	1.00000	3.18213e-50	1.00000
PAH10+CH3	2.62929e-50	1.00000	2.62932e-50	1.00000
rad43	2.23841e-50	1.00000	2.23844e-50	1.00000
rad62	3.85966e-52	1.00000	3.85970e-52	1.00000
rad51	6.63072e-53	1.00000	6.63079e-53	1.00000
rad70	2.57551e-56	1.00000	2.57554e-56	1.00000
PhcycC3H3_A+H	1.86138e-56	1.00000	1.86140e-56	1.00000
rad55	8.71045e-57	1.00000	8.71055e-57	1.00000
rad65	3.82920e-57	1.00000	3.82924e-57	1.00000
rad58	9.50520e-60	1.00000	9.50531e-60	1.00000
PAH1+H	4.77286e-60	1.00000	4.77292e-60	1.00000
rad34	1.37424e-61	1.00000	1.37425e-61	1.00000
rad47	4.04879e-64	1.00000	4.04884e-64	1.00000
rad42	2.15326e-64	1.00000	2.15329e-64	1.00000
rad41	6.87057e-65	1.00000	6.87065e-65	1.00000

10.000000 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04926e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.722480	0.722480	0.722491	0.722491
rad22	0.187638	0.910118	0.187640	0.910131
rad23	0.0855599	0.995678	0.0855611	0.995692
rad45	0.00376113	0.999439	0.00376118	0.999453
rad36	0.000233080	0.999672	0.000233083	0.999686
rad11	0.000220730	0.999893	0.000220733	0.999907
rad6	4.80245e-05	0.999941	4.80252e-05	0.999955
rad18	3.94660e-05	0.999980	3.94665e-05	0.999995
Benzy1+C2H2	1.47053e-05	0.999995	0.00000	0.999995
rad20	3.11777e-06	0.999998	3.11782e-06	0.999998
rad21	1.92476e-06	1.00000	1.92479e-06	1.00000
rad7	3.68116e-09	1.00000	3.68121e-09	1.00000
rad13	3.55788e-11	1.00000	3.55793e-11	1.00000
rad24	2.96788e-11	1.00000	2.96793e-11	1.00000
rad30	2.39697e-12	1.00000	2.39700e-12	1.00000
rad3	1.90732e-13	1.00000	1.90735e-13	1.00000
rad35	1.86092e-13	1.00000	1.86094e-13	1.00000
PAH9+H	1.14475e-13	1.00000	1.14476e-13	1.00000
rad4	9.69540e-14	1.00000	9.69554e-14	1.00000
rad33	4.46671e-14	1.00000	4.46677e-14	1.00000
rad38	1.19210e-14	1.00000	1.19211e-14	1.00000
rad25	1.08960e-14	1.00000	1.08962e-14	1.00000
rad15	8.39248e-15	1.00000	8.39260e-15	1.00000
rad2	2.09439e-15	1.00000	2.09442e-15	1.00000
rad1	1.35197e-16	1.00000	1.35199e-16	1.00000
rad28	4.28376e-17	1.00000	4.28382e-17	1.00000
rad10	6.99956e-18	1.00000	6.99966e-18	1.00000
PhCHCCH2+H	1.45054e-19	1.00000	1.45056e-19	1.00000
rad46	5.09213e-21	1.00000	5.09221e-21	1.00000
PhCCH+CH3	3.88414e-21	1.00000	3.88419e-21	1.00000
rad14	3.48988e-21	1.00000	3.48994e-21	1.00000
rad9	3.97441e-22	1.00000	3.97447e-22	1.00000
rad27	2.00631e-22	1.00000	2.00634e-22	1.00000
rad31	6.63651e-23	1.00000	6.63660e-23	1.00000
rad26	5.41746e-23	1.00000	5.41754e-23	1.00000
PhCCCH3+H	6.31741e-24	1.00000	6.31750e-24	1.00000
rad8	2.54973e-24	1.00000	2.54977e-24	1.00000
Ph+Allene	1.18122e-25	1.00000	1.18124e-25	1.00000
rad60syn	2.70252e-26	1.00000	2.70256e-26	1.00000
Ph+MeAc	2.29983e-27	1.00000	2.29987e-27	1.00000
rad60anti	1.02767e-27	1.00000	1.02769e-27	1.00000
PAH7+H	6.47142e-29	1.00000	6.47152e-29	1.00000
rad39	2.58868e-30	1.00000	2.58871e-30	1.00000
rad12	5.93501e-32	1.00000	5.93510e-32	1.00000
PhCH2CCH+H	1.61326e-32	1.00000	1.61329e-32	1.00000
rad37	5.05859e-36	1.00000	5.05867e-36	1.00000
rad50	2.32358e-36	1.00000	2.32361e-36	1.00000
rad5	9.19105e-37	1.00000	9.19119e-37	1.00000
PAH3+H	1.28441e-38	1.00000	1.28443e-38	1.00000
rad59	6.48169e-39	1.00000	6.48178e-39	1.00000
rad19syn	8.28245e-45	1.00000	8.28257e-45	1.00000
rad52	1.94257e-45	1.00000	1.94260e-45	1.00000
PAH10+CH3	5.48722e-48	1.00000	5.48730e-48	1.00000
rad43	4.48953e-48	1.00000	4.48960e-48	1.00000
rad54	4.08769e-48	1.00000	4.08775e-48	1.00000
rad62	7.70532e-50	1.00000	7.70543e-50	1.00000
rad51	6.99512e-51	1.00000	6.99522e-51	1.00000
rad70	3.74929e-54	1.00000	3.74935e-54	1.00000
PhcycC3H3_A+H	2.73865e-54	1.00000	2.73869e-54	1.00000
rad55	1.27541e-54	1.00000	1.27542e-54	1.00000
rad65	4.55862e-55	1.00000	4.55869e-55	1.00000
rad58	1.40157e-57	1.00000	1.40160e-57	1.00000
PAH1+H	7.99774e-58	1.00000	7.99786e-58	1.00000
rad34	2.21502e-59	1.00000	2.21505e-59	1.00000
rad47	5.52759e-62	1.00000	5.52767e-62	1.00000
rad42	4.72694e-62	1.00000	4.72701e-62	1.00000
rad41	1.84366e-62	1.00000	1.84368e-62	1.00000

10.000000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87094e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.742230	0.742230	0.742245	0.742245
rad22	0.164983	0.907213	0.164986	0.907231
rad23	0.0884543	0.995667	0.0884560	0.995687
rad45	0.00376191	0.999429	0.00376198	0.999449

rad36	0.000233117	0.999662	0.000233122	0.999682
rad11	0.000226979	0.999889	0.000226983	0.999909
rad6	6.00267e-05	0.999949	6.00278e-05	0.999969
rad18	2.70209e-05	0.999976	2.70214e-05	0.999996
Benzyl+C2H2	1.94195e-05	0.999996	0.00000	0.999996
rad20	2.26292e-06	0.999998	2.26296e-06	0.999998
rad21	1.39891e-06	0.999999	1.39894e-06	1.000000
rad7	5.20735e-09	0.999999	5.20745e-09	1.000000
rad13	4.37478e-11	0.999999	4.37486e-11	1.000000
rad24	2.98199e-11	0.999999	2.98205e-11	1.000000
rad30	7.38928e-12	0.999999	7.38942e-12	1.000000
rad3	3.58863e-13	0.999999	3.58870e-13	1.000000
rad35	3.28448e-13	0.999999	3.28454e-13	1.000000
PAH9+H	2.29500e-13	0.999999	2.29504e-13	1.000000
rad4	1.82613e-13	0.999999	1.82617e-13	1.000000
rad33	5.54595e-14	0.999999	5.54606e-14	1.000000
rad25	4.70257e-14	0.999999	4.70266e-14	1.000000
rad15	4.37196e-14	0.999999	4.37205e-14	1.000000
rad38	2.84509e-14	0.999999	2.84515e-14	1.000000
rad2	6.35091e-15	0.999999	6.35103e-15	1.000000
rad1	4.11605e-16	0.999999	4.11613e-16	1.000000
rad28	1.69095e-16	0.999999	1.69098e-16	1.000000
rad10	3.17303e-17	0.999999	3.17310e-17	1.000000
PhCHCCH2+H	2.16269e-18	0.999999	2.16273e-18	1.000000
rad46	4.89372e-20	0.999999	4.89381e-20	1.000000
PhCCH+CH3	4.34280e-20	0.999999	4.34289e-20	1.000000
rad14	2.41065e-20	0.999999	2.41070e-20	1.000000
rad9	9.92469e-21	0.999999	9.92489e-21	1.000000
rad27	1.02762e-21	0.999999	1.02764e-21	1.000000
rad26	5.81643e-22	0.999999	5.81654e-22	1.000000
rad8	1.51945e-22	0.999999	1.51948e-22	1.000000
rad31	1.31672e-22	0.999999	1.31675e-22	1.000000
PhCCCH3+H	9.41138e-23	0.999999	9.41156e-23	1.000000
Ph+Allene	9.30958e-24	0.999999	9.30976e-24	1.000000
rad60syn	1.64956e-24	0.999999	1.64960e-24	1.000000
rad60anti	9.91831e-26	0.999999	9.91850e-26	1.000000
Ph+MeAc	8.76976e-26	0.999999	8.76993e-26	1.000000
PAH7+H	1.96966e-27	0.999999	1.96970e-27	1.000000
rad39	1.03462e-28	0.999999	1.03464e-28	1.000000
PhCH2CCH+H	5.03532e-30	0.999999	5.03542e-30	1.000000
rad12	2.46438e-30	0.999999	2.46443e-30	1.000000
rad37	5.63896e-34	0.999999	5.63907e-34	1.000000
rad50	2.50248e-34	0.999999	2.50253e-34	1.000000
rad5	1.05237e-34	0.999999	1.05239e-34	1.000000
PAH3+H	3.49704e-36	0.999999	3.49711e-36	1.000000
rad59	1.81182e-36	0.999999	1.81185e-36	1.000000
rad19syn	1.27381e-42	0.999999	1.27384e-42	1.000000
rad52	2.83330e-43	0.999999	2.83336e-43	1.000000
PAH10+CH3	1.31143e-45	0.999999	1.31145e-45	1.000000
rad43	1.04292e-45	0.999999	1.04294e-45	1.000000
rad54	6.69596e-46	0.999999	6.69609e-46	1.000000
rad62	1.86186e-47	0.999999	1.86190e-47	1.000000
rad51	1.31503e-48	0.999999	1.31506e-48	1.000000
rad70	6.99003e-52	0.999999	6.99017e-52	1.000000
PhcycC3H3_A+H	5.16318e-52	0.999999	5.16328e-52	1.000000
rad55	2.39218e-52	0.999999	2.39222e-52	1.000000
rad65	9.96399e-53	0.999999	9.96418e-53	1.000000
rad58	2.68911e-55	0.999999	2.68916e-55	1.000000
PAH1+H	1.72312e-55	0.999999	1.72315e-55	1.000000
rad34	4.59406e-57	0.999999	4.59415e-57	1.000000
rad42	1.50391e-59	0.999999	1.50394e-59	1.000000
rad47	1.42347e-59	0.999999	1.42349e-59	1.000000
rad41	7.05523e-60	0.999999	7.05537e-60	1.000000

10.000000 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.94360e-35 (1.00)	3.94350e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.760060	0.760060	0.760080	0.760080
rad22	0.144554	0.904614	0.144558	0.904638
rad23	0.0910243	0.995638	0.0910266	0.995665
rad45	0.00377266	0.999411	0.00377276	0.999437
rad36	0.000233818	0.999645	0.000233824	0.999671
rad11	0.000232649	0.999877	0.000232655	0.999904
rad6	7.47818e-05	0.999952	7.47837e-05	0.999979
Benzyl+C2H2	2.55072e-05	0.999978	0.00000	0.999979

rad18	1.89384e-05	0.999997	1.89389e-05	0.999998
rad20	1.68241e-06	0.999998	1.68245e-06	0.999999
rad21	1.04141e-06	0.999999	1.04144e-06	1.00000
rad7	7.26618e-09	0.999999	7.26637e-09	1.00000
rad13	5.37192e-11	0.999999	5.37206e-11	1.00000
rad24	3.00567e-11	0.999999	3.00575e-11	1.00000
rad30	1.93043e-11	0.999999	1.93048e-11	1.00000
rad3	6.74887e-13	0.999999	6.74904e-13	1.00000
rad35	5.71853e-13	0.999999	5.71868e-13	1.00000
PAH9+H	4.45588e-13	0.999999	4.45599e-13	1.00000
rad4	3.43828e-13	0.999999	3.43837e-13	1.00000
rad15	1.77588e-13	0.999999	1.77593e-13	1.00000
rad25	1.64805e-13	0.999999	1.64809e-13	1.00000
rad33	6.87366e-14	0.999999	6.87384e-14	1.00000
rad38	6.30535e-14	0.999999	6.30551e-14	1.00000
rad2	1.90625e-14	0.999999	1.90630e-14	1.00000
rad1	1.24083e-15	0.999999	1.24086e-15	1.00000
rad28	6.00094e-16	0.999999	6.00109e-16	1.00000
rad10	1.38098e-16	0.999999	1.38102e-16	1.00000
PhCHCCH2+H	2.22670e-17	0.999999	2.22675e-17	1.00000
PhCCH+CH3	3.93264e-19	0.999999	3.93274e-19	1.00000
rad46	3.63818e-19	0.999999	3.63827e-19	1.00000
rad9	1.55952e-19	0.999999	1.55956e-19	1.00000
rad14	1.38032e-19	0.999999	1.38035e-19	1.00000
rad26	5.46850e-21	0.999999	5.46864e-21	1.00000
rad8	4.72991e-21	0.999999	4.73003e-21	1.00000
rad27	4.63862e-21	0.999999	4.63874e-21	1.00000
PhCCCH3+H	1.14756e-21	0.999999	1.14759e-21	1.00000
Ph+Allene	3.49255e-22	0.999999	3.49264e-22	1.00000
rad31	2.61612e-22	0.999999	2.61618e-22	1.00000
rad60syn	5.21382e-23	0.999999	5.21395e-23	1.00000
rad60anti	3.98931e-24	0.999999	3.98942e-24	1.00000
Ph+MeAc	2.45535e-24	0.999999	2.45541e-24	1.00000
PAH7+H	4.41391e-26	0.999999	4.41402e-26	1.00000
PhCH2CCH+H	1.19128e-26	0.999999	1.19131e-26	1.00000
rad39	2.92904e-27	0.999999	2.92912e-27	1.00000
rad12	7.95733e-29	0.999999	7.95753e-29	1.00000
rad37	5.63882e-32	0.999999	5.63896e-32	1.00000
rad50	3.57442e-32	0.999999	3.57451e-32	1.00000
rad5	1.14060e-32	0.999999	1.14063e-32	1.00000
PAH3+H	2.16647e-33	0.999999	2.16653e-33	1.00000
rad59	1.13776e-33	0.999999	1.13779e-33	1.00000
rad19syn	2.41561e-40	0.999999	2.41567e-40	1.00000
rad52	5.72823e-41	0.999999	5.72838e-41	1.00000
PAH10+CH3	3.22891e-43	0.999999	3.22900e-43	1.00000
rad43	2.51198e-43	0.999999	2.51204e-43	1.00000
rad54	1.35340e-43	0.999999	1.35344e-43	1.00000
rad62	4.81528e-45	0.999999	4.81541e-45	1.00000
rad51	3.59600e-46	0.999999	3.59609e-46	1.00000
rad70	1.61195e-49	0.999999	1.61199e-49	1.00000
PhcycC3H3_A+H	1.20455e-49	0.999999	1.20458e-49	1.00000
rad55	5.55053e-50	0.999999	5.55067e-50	1.00000
rad65	3.25452e-50	0.999999	3.25461e-50	1.00000
rad58	6.49515e-53	0.999999	6.49532e-53	1.00000
PAH1+H	4.60050e-53	0.999999	4.60062e-53	1.00000
rad34	1.18356e-54	0.999999	1.18359e-54	1.00000
rad42	6.14370e-57	0.999999	6.14385e-57	1.00000
rad47	5.67212e-57	0.999999	5.67227e-57	1.00000
rad41	3.28001e-57	0.999999	3.28009e-57	1.00000

10.000000 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.44756e-33 (1.00)	1.44751e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.776140	0.776140	0.776166	0.776166
rad22	0.126169	0.902309	0.126174	0.902340
rad23	0.0932894	0.995598	0.0932925	0.995633
rad45	0.00378722	0.999386	0.00378734	0.999420
rad11	0.000237479	0.999623	0.000237487	0.999657
rad36	0.000234806	0.999858	0.000234814	0.999892
rad6	9.28342e-05	0.999951	9.28373e-05	0.999985
Benzyl+C2H2	3.33516e-05	0.999984	0.00000	0.999985
rad18	1.35336e-05	0.999998	1.35340e-05	0.999999
rad20	1.27558e-06	0.999999	1.27562e-06	1.000000
rad21	7.90580e-07	1.000000	7.90607e-07	1.00000
rad7	9.99620e-09	1.000000	9.99654e-09	1.00000

rad13	6.58354e-11	1.000000	6.58376e-11	1.00000
rad30	4.43767e-11	1.000000	4.43782e-11	1.00000
rad24	3.03402e-11	1.000000	3.03412e-11	1.00000
rad3	1.26185e-12	1.000000	1.26189e-12	1.00000
rad35	9.85156e-13	1.000000	9.85189e-13	1.00000
PAH9+H	8.43071e-13	1.000000	8.43099e-13	1.00000
rad4	6.43685e-13	1.000000	6.43707e-13	1.00000
rad15	5.94231e-13	1.000000	5.94251e-13	1.00000
rad25	4.84204e-13	1.000000	4.84221e-13	1.00000
rad38	1.31989e-13	1.000000	1.31993e-13	1.00000
rad33	8.49966e-14	1.000000	8.49995e-14	1.00000
rad2	5.58411e-14	1.000000	5.58430e-14	1.00000
rad1	3.65205e-15	1.000000	3.65217e-15	1.00000
rad28	1.93885e-15	1.000000	1.93891e-15	1.00000
rad10	5.65167e-16	1.000000	5.65186e-16	1.00000
PhCHCCH2+H	1.69213e-16	1.000000	1.69218e-16	1.00000
PhCCH+CH3	2.91666e-18	1.000000	2.91676e-18	1.00000
rad46	2.14452e-18	1.000000	2.14459e-18	1.00000
rad9	1.68405e-18	1.000000	1.68410e-18	1.00000
rad14	6.61632e-19	1.000000	6.61655e-19	1.00000
rad8	8.97926e-20	1.000000	8.97955e-20	1.00000
rad26	4.44652e-20	1.000000	4.44666e-20	1.00000
rad27	1.85358e-20	1.000000	1.85364e-20	1.00000
PhCCCH3+H	1.14874e-20	1.000000	1.14877e-20	1.00000
Ph+Allene	7.80468e-21	1.000000	7.80494e-21	1.00000
rad60syn	9.97822e-22	1.000000	9.97855e-22	1.00000
rad31	5.17784e-22	1.000000	5.17801e-22	1.00000
rad60anti	9.27425e-23	1.000000	9.27456e-23	1.00000
Ph+MeAc	4.97528e-23	1.000000	4.97545e-23	1.00000
PhCH2CCH+H	8.67723e-25	1.000000	8.67752e-25	1.00000
PAH7+H	7.43888e-25	1.000000	7.43913e-25	1.00000
rad39	5.93448e-26	1.000000	5.93468e-26	1.00000
rad12	1.94665e-27	1.000000	1.94671e-27	1.00000
PAH3+H	1.15109e-28	1.000000	1.15112e-28	1.00000
rad59	5.75838e-29	1.000000	5.75857e-29	1.00000
rad50	6.15115e-30	1.000000	6.15136e-30	1.00000
rad37	3.63078e-30	1.000000	3.63090e-30	1.00000
rad5	8.66818e-31	1.000000	8.66846e-31	1.00000
rad19syn	4.07123e-38	1.000000	4.07137e-38	1.00000
rad52	1.07679e-38	1.000000	1.07683e-38	1.00000
PAH10+CH3	6.23464e-41	1.000000	6.23485e-41	1.00000
rad43	4.75525e-41	1.000000	4.75541e-41	1.00000
rad54	2.43213e-41	1.000000	2.43221e-41	1.00000
rad62	9.93739e-43	1.000000	9.93772e-43	1.00000
rad51	9.50204e-44	1.000000	9.50235e-44	1.00000
rad70	3.30922e-47	1.000000	3.30933e-47	1.00000
PhcycC3H3_A+H	2.50245e-47	1.000000	2.50254e-47	1.00000
rad55	1.14653e-47	1.000000	1.14657e-47	1.00000
rad65	1.05029e-47	1.000000	1.05032e-47	1.00000
rad58	1.43934e-50	1.000000	1.43938e-50	1.00000
PAH1+H	1.09522e-50	1.000000	1.09526e-50	1.00000
rad34	2.72519e-52	1.000000	2.72528e-52	1.00000
rad47	2.30289e-54	1.000000	2.30297e-54	1.00000
rad42	2.23893e-54	1.000000	2.23901e-54	1.00000
rad41	1.30858e-54	1.000000	1.30862e-54	1.00000

10.000000 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27722e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.790617	0.790617	0.790652	0.790652
rad22	0.109673	0.900290	0.109678	0.900330
rad23	0.0952614	0.995551	0.0952656	0.995596
rad45	0.00380163	0.999353	0.00380179	0.999397
rad11	0.000241192	0.999594	0.000241203	0.999639
rad36	0.000235841	0.999830	0.000235851	0.999874
rad6	0.000114760	0.999945	0.000114765	0.999989
Benzyl+C2H2	4.34308e-05	0.999988	0.00000	0.999989
rad18	9.82959e-06	0.999998	9.83002e-06	0.999999
rad20	9.82903e-07	0.999999	9.82945e-07	1.00000
rad21	6.09920e-07	1.000000	6.09947e-07	1.00000
rad7	1.35478e-08	1.000000	1.35484e-08	1.00000
rad30	9.22932e-11	1.000000	9.22972e-11	1.00000
rad13	8.04541e-11	1.000000	8.04576e-11	1.00000
rad24	3.06386e-11	1.000000	3.06399e-11	1.00000
rad3	2.33223e-12	1.000000	2.33233e-12	1.00000

rad15	1.70563e-12	1.000000	1.70570e-12	1.00000
rad35	1.68183e-12	1.000000	1.68191e-12	1.00000
PAH9+H	1.56154e-12	1.000000	1.56161e-12	1.00000
rad25	1.22654e-12	1.000000	1.22659e-12	1.00000
rad4	1.19137e-12	1.000000	1.19142e-12	1.00000
rad38	2.64376e-13	1.000000	2.64388e-13	1.00000
rad2	1.57933e-13	1.000000	1.57940e-13	1.00000
rad33	1.04772e-13	1.000000	1.04776e-13	1.00000
rad1	1.03821e-14	1.000000	1.03826e-14	1.00000
rad28	5.77616e-15	1.000000	5.77641e-15	1.00000
rad10	2.14811e-15	1.000000	2.14820e-15	1.00000
PhCHCCH2+H	1.00384e-15	1.000000	1.00389e-15	1.00000
PhCCH+CH3	1.81093e-17	1.000000	1.81101e-17	1.00000
rad9	1.34200e-17	1.000000	1.34206e-17	1.00000
rad46	1.03882e-17	1.000000	1.03886e-17	1.00000
rad14	2.69894e-18	1.000000	2.69906e-18	1.00000
rad8	1.15242e-18	1.000000	1.15247e-18	1.00000
rad26	3.13137e-19	1.000000	3.13150e-19	1.00000
Ph+Allene	1.16638e-19	1.000000	1.16643e-19	1.00000
PhCCCH3+H	9.61111e-20	1.000000	9.61153e-20	1.00000
rad27	6.61981e-20	1.000000	6.62010e-20	1.00000
rad60syn	1.28470e-20	1.000000	1.28476e-20	1.00000
rad60anti	1.41043e-21	1.000000	1.41049e-21	1.00000
rad31	1.01536e-21	1.000000	1.01540e-21	1.00000
Ph+MeAc	7.55499e-22	1.000000	7.55531e-22	1.00000
PhCH2CCH+H	2.77279e-23	1.000000	2.77291e-23	1.00000
PAH7+H	9.84427e-24	1.000000	9.84470e-24	1.00000
rad39	9.04934e-25	1.000000	9.04973e-25	1.00000
rad12	3.71631e-26	1.000000	3.71647e-26	1.00000
PAH3+H	1.80513e-26	1.000000	1.80521e-26	1.00000
rad59	8.13650e-27	1.000000	8.13685e-27	1.00000
rad50	3.72123e-28	1.000000	3.72139e-28	1.00000
rad37	1.54085e-28	1.000000	1.54091e-28	1.00000
rad5	4.29384e-29	1.000000	4.29403e-29	1.00000
rad19syn	1.12964e-35	1.000000	1.12969e-35	1.00000
rad52	3.12539e-36	1.000000	3.12552e-36	1.00000
PAH10+CH3	1.34977e-38	1.000000	1.34983e-38	1.00000
rad43	1.01333e-38	1.000000	1.01338e-38	1.00000
rad54	7.19012e-39	1.000000	7.19044e-39	1.00000
rad62	2.38924e-40	1.000000	2.38935e-40	1.00000
rad51	3.92528e-41	1.000000	3.92545e-41	1.00000
rad70	1.10984e-44	1.000000	1.10988e-44	1.00000
PhcycC3H3_A+H	8.48539e-45	1.000000	8.48576e-45	1.00000
rad65	5.38615e-45	1.000000	5.38638e-45	1.00000
rad55	3.86657e-45	1.000000	3.86674e-45	1.00000
rad58	5.39606e-48	1.000000	5.39630e-48	1.00000
PAH1+H	4.11318e-48	1.000000	4.11336e-48	1.00000
rad34	1.01777e-49	1.000000	1.01781e-49	1.00000
rad47	1.51910e-51	1.000000	1.51917e-51	1.00000
rad42	1.03772e-51	1.000000	1.03776e-51	1.00000
rad41	6.35384e-52	1.000000	6.35412e-52	1.00000

10.000000 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01141e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.803628	0.803628	0.803673	0.803673
rad23	0.0969467	0.900575	0.0969522	0.900625
rad22	0.0949260	0.995501	0.0949313	0.995556
rad45	0.00381327	0.999314	0.00381349	0.999370
rad11	0.000243525	0.999557	0.000243539	0.999614
rad36	0.000236766	0.999794	0.000236779	0.999850
rad6	0.000141147	0.999935	0.000141155	0.999991
Benzyl+C2H2	5.63360e-05	0.999992	0.00000	0.999991
rad18	7.23795e-06	0.999999	7.23836e-06	0.999999
rad20	7.67655e-07	1.000000	7.67699e-07	0.999999
rad21	4.76903e-07	1.000000	4.76929e-07	1.000000
rad7	1.80759e-08	1.000000	1.80770e-08	1.000000
rad30	1.77304e-10	1.000000	1.77313e-10	1.000000
rad13	9.79351e-11	1.000000	9.79406e-11	1.000000
rad24	3.09308e-11	1.000000	3.09325e-11	1.000000
rad15	4.32893e-12	1.000000	4.32917e-12	1.000000
rad3	4.23857e-12	1.000000	4.23881e-12	1.000000
rad35	2.84649e-12	1.000000	2.84665e-12	1.000000
PAH9+H	2.83990e-12	1.000000	2.84006e-12	1.000000
rad25	2.74126e-12	1.000000	2.74141e-12	1.000000

rad4	2.16850e-12	1.00000	2.16862e-12	1.000000
rad38	5.11464e-13	1.00000	5.11493e-13	1.000000
rad2	4.28148e-13	1.00000	4.28172e-13	1.000000
rad33	1.28612e-13	1.00000	1.28619e-13	1.000000
rad1	2.83029e-14	1.00000	2.83045e-14	1.000000
rad28	1.60469e-14	1.00000	1.60478e-14	1.000000
rad10	7.53912e-15	1.00000	7.53954e-15	1.000000
PhCHCCH2+H	4.86075e-15	1.00000	4.86103e-15	1.000000
PhCCH+CH3	9.62899e-17	1.00000	9.62953e-17	1.000000
rad9	8.34329e-17	1.00000	8.34376e-17	1.000000
rad46	4.27417e-17	1.00000	4.27441e-17	1.000000
rad8	1.07689e-17	1.00000	1.07695e-17	1.000000
rad14	9.53253e-18	1.00000	9.53307e-18	1.000000
rad26	1.92526e-18	1.00000	1.92537e-18	1.000000
Ph+Allene	1.25682e-18	1.00000	1.25689e-18	1.000000
PhCCCH3+H	6.86060e-19	1.00000	6.86099e-19	1.000000
rad27	2.13602e-19	1.00000	2.13614e-19	1.000000
rad60syn	1.20012e-19	1.00000	1.20019e-19	1.000000
rad60anti	1.52226e-20	1.00000	1.52235e-20	1.000000
Ph+MeAc	8.91592e-21	1.00000	8.91642e-21	1.000000
rad31	1.96326e-21	1.00000	1.96337e-21	1.000000
PhCH2CCH+H	5.38775e-22	1.00000	5.38805e-22	1.000000
PAH7+H	1.05798e-22	1.00000	1.05804e-22	1.000000
rad39	1.08309e-23	1.00000	1.08316e-23	1.000000
rad12	5.63868e-25	1.00000	5.63899e-25	1.000000
PAH3+H	5.41214e-25	1.00000	5.41245e-25	1.000000
rad59	2.28527e-25	1.00000	2.28540e-25	1.000000
rad50	9.78280e-27	1.00000	9.78335e-27	1.000000
rad37	4.20007e-27	1.00000	4.20030e-27	1.000000
rad5	1.23785e-27	1.00000	1.23792e-27	1.000000
rad19syn	2.44353e-33	1.00000	2.44366e-33	1.000000
rad52	6.84523e-34	1.00000	6.84562e-34	1.000000
PAH10+CH3	2.04118e-36	1.00000	2.04129e-36	1.000000
rad54	1.65829e-36	1.00000	1.65838e-36	1.000000
rad43	1.50969e-36	1.00000	1.50978e-36	1.000000
rad62	4.10229e-38	1.00000	4.10252e-38	1.000000
rad51	1.16481e-38	1.00000	1.16487e-38	1.000000
rad70	2.90181e-42	1.00000	2.90197e-42	1.000000
PhcycC3H3_A+H	2.24248e-42	1.00000	2.24261e-42	1.000000
rad65	2.00280e-42	1.00000	2.00291e-42	1.000000
rad55	1.01629e-42	1.00000	1.01634e-42	1.000000
rad58	1.63431e-45	1.00000	1.63440e-45	1.000000
PAH1+H	1.18909e-45	1.00000	1.18915e-45	1.000000
rad34	2.95714e-47	1.00000	2.95730e-47	1.000000
rad47	7.36321e-49	1.00000	7.36362e-49	1.000000
rad42	3.49738e-49	1.00000	3.49757e-49	1.000000
rad41	2.22545e-49	1.00000	2.22557e-49	1.000000

10.000000 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54780e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.815298	0.815298	0.815358	0.815358
rad23	0.0983470	0.913645	0.0983541	0.913712
rad22	0.0818010	0.995446	0.0818069	0.995519
rad45	0.00382036	0.999266	0.00382064	0.999340
rad11	0.000244245	0.999511	0.000244263	0.999584
rad36	0.000237476	0.999748	0.000237494	0.999821
rad6	0.000172571	0.999921	0.000172583	0.999994
Benzyl+C2H2	7.27913e-05	0.999993	0.00000	0.999994
rad18	5.39222e-06	0.999999	5.39261e-06	0.999999
rad20	6.06381e-07	0.999999	6.06425e-07	1.000000
rad21	3.77125e-07	1.000000	3.77152e-07	1.000000
rad7	2.37321e-08	1.000000	2.37339e-08	1.000000
rad30	3.19604e-10	1.000000	3.19627e-10	1.000000
rad13	1.18626e-10	1.000000	1.18634e-10	1.000000
rad24	3.12019e-11	1.000000	3.12041e-11	1.000000
rad15	9.94195e-12	1.000000	9.94267e-12	1.000000
rad3	7.54087e-12	1.000000	7.54142e-12	1.000000
rad25	5.50760e-12	1.000000	5.50800e-12	1.000000
PAH9+H	5.08032e-12	1.000000	5.08069e-12	1.000000
rad35	4.77520e-12	1.000000	4.77555e-12	1.000000
rad4	3.86446e-12	1.000000	3.86475e-12	1.000000
rad2	1.10795e-12	1.000000	1.10803e-12	1.000000
rad38	9.61856e-13	1.000000	9.61926e-13	1.000000
rad33	1.57065e-13	1.000000	1.57076e-13	1.000000

rad1	7.36873e-14	1.000000	7.36927e-14	1.00000
rad28	4.19671e-14	1.000000	4.19701e-14	1.00000
rad10	2.44060e-14	1.000000	2.44078e-14	1.00000
PhCHCCH2+H	1.98956e-14	1.000000	1.98971e-14	1.00000
PhCCH+CH3	4.47557e-16	1.000000	4.47590e-16	1.00000
rad9	4.22622e-16	1.000000	4.22652e-16	1.00000
rad46	1.53533e-16	1.000000	1.53544e-16	1.00000
rad8	7.75400e-17	1.000000	7.75456e-17	1.00000
rad14	2.96274e-17	1.000000	2.96296e-17	1.00000
rad26	1.04468e-17	1.000000	1.04475e-17	1.00000
Ph+Allene	1.03435e-17	1.000000	1.03443e-17	1.00000
PhCCCH3+H	4.26015e-18	1.000000	4.26046e-18	1.00000
rad60syn	8.61675e-19	1.000000	8.61737e-19	1.00000
rad27	6.29335e-19	1.000000	6.29381e-19	1.00000
rad60anti	1.24003e-19	1.000000	1.24012e-19	1.00000
Ph+MeAc	8.48137e-20	1.000000	8.48199e-20	1.00000
PhCH2CCH+H	7.39132e-21	1.000000	7.39185e-21	1.00000
rad31	3.72859e-21	1.000000	3.72886e-21	1.00000
PAH7+H	9.48805e-22	1.000000	9.48874e-22	1.00000
rad39	1.05825e-22	1.000000	1.05833e-22	1.00000
PAH3+H	9.93630e-24	1.000000	9.93702e-24	1.00000
rad12	6.99229e-24	1.000000	6.99280e-24	1.00000
rad59	4.04677e-24	1.000000	4.04707e-24	1.00000
rad50	1.69372e-25	1.000000	1.69385e-25	1.00000
rad37	8.21182e-26	1.000000	8.21242e-26	1.00000
rad5	2.45580e-26	1.000000	2.45598e-26	1.00000
rad19syn	4.57484e-31	1.000000	4.57517e-31	1.00000
rad52	2.16599e-31	1.000000	2.16615e-31	1.00000
rad54	2.93630e-34	1.000000	2.93652e-34	1.00000
PAH10+CH3	2.17607e-34	1.000000	2.17622e-34	1.00000
rad43	1.58850e-34	1.000000	1.58862e-34	1.00000
rad62	5.13537e-36	1.000000	5.13574e-36	1.00000
rad51	2.34368e-36	1.000000	2.34385e-36	1.00000
rad70	5.82846e-40	1.000000	5.82888e-40	1.00000
rad65	5.04200e-40	1.000000	5.04237e-40	1.00000
PhcycC3H3_A+H	4.55189e-40	1.000000	4.55222e-40	1.00000
rad55	2.05159e-40	1.000000	2.05174e-40	1.00000
rad58	3.84086e-43	1.000000	3.84114e-43	1.00000
PAH1+H	2.61529e-43	1.000000	2.61548e-43	1.00000
rad34	6.59083e-45	1.000000	6.59131e-45	1.00000
rad47	2.42964e-46	1.000000	2.42982e-46	1.00000
rad42	8.54598e-47	1.000000	8.54660e-47	1.00000
rad41	5.62207e-47	1.000000	5.62248e-47	1.00000

10.000000 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69315e-29 (1.00)	4.69271e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.825752	0.825752	0.825830	0.825830
rad23	0.0994607	0.925213	0.0994700	0.925300
rad22	0.0701761	0.995389	0.0701826	0.995483
rad45	0.00382161	0.999210	0.00382197	0.999305
rad11	0.000243173	0.999454	0.000243196	0.999548
rad36	0.000237899	0.999691	0.000237921	0.999786
rad6	0.000209571	0.999901	0.000209591	0.999995
Benzyl+C2H2	9.36769e-05	0.999995	0.00000	0.999995
rad18	4.05761e-06	0.999999	4.05799e-06	0.999999
rad20	4.83621e-07	0.999999	4.83666e-07	1.000000
rad21	3.01090e-07	1.000000	3.01118e-07	1.00000
rad7	3.06563e-08	1.000000	3.06592e-08	1.00000
rad30	5.47074e-10	1.000000	5.47126e-10	1.00000
rad13	1.42848e-10	1.000000	1.42862e-10	1.00000
rad24	3.14412e-11	1.000000	3.14441e-11	1.00000
rad15	2.10329e-11	1.000000	2.10349e-11	1.00000
rad3	1.30891e-11	1.000000	1.30903e-11	1.00000
rad25	1.01001e-11	1.000000	1.01010e-11	1.00000
PAH9+H	8.94792e-12	1.000000	8.94876e-12	1.00000
rad35	7.93556e-12	1.000000	7.93631e-12	1.00000
rad4	6.72005e-12	1.000000	6.72068e-12	1.00000
rad2	2.73227e-12	1.000000	2.73252e-12	1.00000
rad38	1.76593e-12	1.000000	1.76609e-12	1.00000
rad33	1.90660e-13	1.000000	1.90678e-13	1.00000
rad1	1.82919e-13	1.000000	1.82936e-13	1.00000
rad28	1.04138e-13	1.000000	1.04148e-13	1.00000
rad10	7.30198e-14	1.000000	7.30266e-14	1.00000
PhCHCCH2+H	7.07697e-14	1.000000	7.07763e-14	1.00000

PhCCH+CH3	1.85133e-15	1.000000	1.85151e-15	1.00000
rad9	1.80480e-15	1.000000	1.80497e-15	1.00000
rad46	4.92272e-16	1.000000	4.92318e-16	1.00000
rad8	4.49567e-16	1.000000	4.49609e-16	1.00000
rad14	8.22204e-17	1.000000	8.22281e-17	1.00000
Ph+Allene	6.79962e-17	1.000000	6.80026e-17	1.00000
rad26	5.06074e-17	1.000000	5.06122e-17	1.00000
PhCCCH3+H	2.34077e-17	1.000000	2.34099e-17	1.00000
rad60syn	4.97267e-18	1.000000	4.97313e-18	1.00000
rad27	1.70958e-18	1.000000	1.70974e-18	1.00000
rad60anti	7.99620e-19	1.000000	7.99695e-19	1.00000
Ph+MeAc	6.70735e-19	1.000000	6.70798e-19	1.00000
PhCH2CCH+H	7.64832e-20	1.000000	7.64904e-20	1.00000
PAH7+H	7.24793e-21	1.000000	7.24861e-21	1.00000
rad31	6.93634e-21	1.000000	6.93699e-21	1.00000
rad39	8.70939e-22	1.000000	8.71021e-22	1.00000
PAH3+H	1.30587e-22	1.000000	1.30599e-22	1.00000
rad12	7.24696e-23	1.000000	7.24764e-23	1.00000
rad59	5.15633e-23	1.000000	5.15681e-23	1.00000
rad50	2.14616e-24	1.000000	2.14636e-24	1.00000
rad37	1.22104e-24	1.000000	1.22115e-24	1.00000
rad5	3.62434e-25	1.000000	3.62468e-25	1.00000
rad19syn	3.73199e-29	1.000000	3.73234e-29	1.00000
rad52	1.15216e-29	1.000000	1.15227e-29	1.00000
rad54	5.11022e-32	1.000000	5.11070e-32	1.00000
PAH10+CH3	1.78974e-32	1.000000	1.78990e-32	1.00000
rad43	1.30798e-32	1.000000	1.30810e-32	1.00000
rad62	5.55081e-34	1.000000	5.55133e-34	1.00000
rad51	3.96831e-34	1.000000	3.96868e-34	1.00000
rad70	1.15126e-37	1.000000	1.15137e-37	1.00000
rad65	1.01151e-37	1.000000	1.01160e-37	1.00000
PhcycC3H3_A+H	9.08090e-38	1.000000	9.08175e-38	1.00000
rad55	4.07072e-38	1.000000	4.07110e-38	1.00000
rad58	8.51225e-41	1.000000	8.51305e-41	1.00000
PAH1+H	5.53254e-41	1.000000	5.53306e-41	1.00000
rad34	1.43643e-42	1.000000	1.43656e-42	1.00000
rad47	6.32278e-44	1.000000	6.32337e-44	1.00000
rad42	1.71427e-44	1.000000	1.71443e-44	1.00000
rad41	1.14606e-44	1.000000	1.14617e-44	1.00000

10.000000 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.16530e-28 (1.00)	3.16492e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.835112	0.835112	0.835212	0.835212
rad23	0.100284	0.935396	0.100296	0.935508
rad22	0.0599335	0.995329	0.0599407	0.995449
rad45	0.00381609	0.999146	0.00381655	0.999265
rad6	0.000252641	0.999398	0.000252671	0.999518
rad11	0.000240203	0.999638	0.000240232	0.999758
rad36	0.000237980	0.999876	0.000238008	0.999996
Benzyl+C2H2	0.000120054	0.999996	0.00000	0.999996
rad18	3.07989e-06	1.000000	3.08026e-06	0.999999
rad20	3.88911e-07	1.000000	3.88957e-07	1.000000
rad21	2.42365e-07	1.000000	2.42394e-07	1.000000
rad7	3.89703e-08	1.000000	3.89750e-08	1.000000
rad30	8.97448e-10	1.000000	8.97556e-10	1.000000
rad13	1.70892e-10	1.000000	1.70912e-10	1.000000
rad15	4.15631e-11	1.000000	4.15681e-11	1.000000
rad24	3.16404e-11	1.000000	3.16442e-11	1.000000
rad3	2.21143e-11	1.000000	2.21170e-11	1.000000
rad25	1.71173e-11	1.000000	1.71194e-11	1.000000
PAH9+H	1.55225e-11	1.000000	1.55244e-11	1.000000
rad35	1.30541e-11	1.000000	1.30557e-11	1.000000
rad4	1.13764e-11	1.000000	1.13778e-11	1.000000
rad2	6.42177e-12	1.000000	6.42254e-12	1.000000
rad38	3.17399e-12	1.000000	3.17437e-12	1.000000
rad1	4.33011e-13	1.000000	4.33063e-13	1.000000
rad28	2.46784e-13	1.000000	2.46814e-13	1.000000
rad33	2.29898e-13	1.000000	2.29926e-13	1.000000
PhCHCCH2+H	2.23638e-13	1.000000	2.23665e-13	1.000000
rad10	2.02680e-13	1.000000	2.02705e-13	1.000000
PhCCH+CH3	6.92137e-15	1.000000	6.92220e-15	1.000000
rad9	6.67678e-15	1.000000	6.67758e-15	1.000000
rad8	2.17305e-15	1.000000	2.17331e-15	1.000000
rad46	1.43391e-15	1.000000	1.43408e-15	1.000000

Ph+Allene	3.69942e-16	1.00000	3.69987e-16	1.000000
rad26	2.21318e-16	1.00000	2.21345e-16	1.000000
rad14	2.06381e-16	1.00000	2.06406e-16	1.000000
PhCCCH3+H	1.15460e-16	1.00000	1.15474e-16	1.000000
rad60syn	2.38932e-17	1.00000	2.38960e-17	1.000000
Ph+MeAc	4.52483e-18	1.00000	4.52537e-18	1.000000
rad27	4.31928e-18	1.00000	4.31979e-18	1.000000
rad60anti	4.23805e-18	1.00000	4.23856e-18	1.000000
PhCH2CCH+H	6.25381e-19	1.00000	6.25456e-19	1.000000
PAH7+H	4.80193e-20	1.00000	4.80251e-20	1.000000
rad31	1.26187e-20	1.00000	1.26202e-20	1.000000
rad39	6.19485e-21	1.00000	6.19560e-21	1.000000
PAH3+H	1.31077e-21	1.00000	1.31093e-21	1.000000
rad12	6.40517e-22	1.00000	6.40594e-22	1.000000
rad59	5.02422e-22	1.00000	5.02482e-22	1.000000
rad50	2.10676e-23	1.00000	2.10701e-23	1.000000
rad37	1.45063e-23	1.00000	1.45081e-23	1.000000
rad5	4.20977e-24	1.00000	4.21027e-24	1.000000
rad19syn	1.17749e-27	1.00000	1.17763e-27	1.000000
rad52	2.62602e-28	1.00000	2.62634e-28	1.000000
rad54	7.50024e-30	1.00000	7.50114e-30	1.000000
PAH10+CH3	1.27238e-30	1.00000	1.27253e-30	1.000000
rad43	9.41036e-31	1.00000	9.41149e-31	1.000000
rad51	2.45826e-31	1.00000	2.45856e-31	1.000000
rad62	8.70689e-32	1.00000	8.70793e-32	1.000000
rad70	3.37481e-35	1.00000	3.37521e-35	1.000000
PhcycC3H3_A+H	2.67933e-35	1.00000	2.67965e-35	1.000000
rad65	2.37142e-35	1.00000	2.37171e-35	1.000000
rad55	1.19451e-35	1.00000	1.19465e-35	1.000000
rad58	2.76805e-38	1.00000	2.76838e-38	1.000000
PAH1+H	1.69453e-38	1.00000	1.69473e-38	1.000000
rad34	4.61139e-40	1.00000	4.61194e-40	1.000000
rad47	1.75105e-41	1.00000	1.75126e-41	1.000000
rad42	3.95223e-42	1.00000	3.95271e-42	1.000000
rad41	2.58013e-42	1.00000	2.58043e-42	1.000000

10.0000000 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76088e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.843498	0.843498	0.843627	0.843627
rad23	0.100809	0.944307	0.100825	0.944452
rad22	0.0509580	0.995265	0.0509658	0.995418
rad45	0.00380306	0.999068	0.00380365	0.999221
rad6	0.000302210	0.999370	0.000302256	0.999524
rad36	0.000237679	0.999608	0.000237715	0.999761
rad11	0.000235308	0.999843	0.000235344	0.999997
Benzyl+C2H2	0.000153192	0.999996	0.000000	0.999997
rad18	2.35546e-06	0.999999	2.35583e-06	0.999999
rad20	3.14996e-07	0.999999	3.15044e-07	0.999999
rad21	1.96485e-07	0.999999	1.96515e-07	1.000000
rad7	4.87734e-08	0.999999	4.87809e-08	1.000000
rad30	1.42097e-09	0.999999	1.42119e-09	1.000000
rad13	2.03005e-10	0.999999	2.03036e-10	1.000000
rad15	7.75655e-11	0.999999	7.75774e-11	1.000000
rad3	3.63182e-11	0.999999	3.63238e-11	1.000000
rad24	3.17928e-11	0.999999	3.17977e-11	1.000000
rad25	2.70865e-11	0.999999	2.70906e-11	1.000000
PAH9+H	2.65235e-11	0.999999	2.65276e-11	1.000000
rad35	2.12405e-11	0.999999	2.12438e-11	1.000000
rad4	1.87243e-11	0.999999	1.87272e-11	1.000000
rad2	1.44049e-11	0.999999	1.44071e-11	1.000000
rad38	5.59445e-12	0.999999	5.59531e-12	1.000000
rad1	9.78878e-13	0.999999	9.79028e-13	1.000000
PhCHCCH2+H	6.39084e-13	0.999999	6.39182e-13	1.000000
rad28	5.61530e-13	0.999999	5.61616e-13	1.000000
rad10	5.24451e-13	0.999999	5.24531e-13	1.000000
rad33	2.75239e-13	0.999999	2.75281e-13	1.000000
PhCCH+CH3	2.36990e-14	0.999999	2.37027e-14	1.000000
rad9	2.18699e-14	0.999999	2.18732e-14	1.000000
rad8	9.00376e-15	0.999999	9.00514e-15	1.000000
rad46	3.84812e-15	0.999999	3.84871e-15	1.000000
Ph+Allene	1.71386e-15	0.999999	1.71413e-15	1.000000
rad26	8.82638e-16	0.999999	8.82773e-16	1.000000
PhCCCH3+H	5.17384e-16	0.999999	5.17464e-16	1.000000
rad14	4.73904e-16	0.999999	4.73977e-16	1.000000

rad60syn	9.83157e-17	0.999999	9.83307e-17	1.000000
Ph+MeAc	2.65784e-17	0.999999	2.65825e-17	1.000000
rad60anti	1.90247e-17	0.999999	1.90276e-17	1.000000
rad27	1.02283e-17	0.999999	1.02299e-17	1.000000
PhCH2CCH+H	4.18607e-18	0.999999	4.18671e-18	1.000000
PAH7+H	2.80322e-19	0.999999	2.80364e-19	1.000000
rad39	3.88169e-20	0.999999	3.88228e-20	1.000000
rad31	2.24335e-20	0.999999	2.24369e-20	1.000000
PAH3+H	1.04618e-20	0.999999	1.04634e-20	1.000000
rad12	4.89091e-21	0.999999	4.89166e-21	1.000000
rad59	3.89796e-21	0.999999	3.89856e-21	1.000000
rad50	1.66217e-22	0.999999	1.66243e-22	1.000000
rad37	1.40809e-22	0.999999	1.40831e-22	1.000000
rad5	3.95514e-23	0.999999	3.95575e-23	1.000000
rad19syn	2.07705e-26	0.999999	2.07737e-26	1.000000
rad52	3.76628e-27	0.999999	3.76685e-27	1.000000
rad54	2.28955e-28	0.999999	2.28990e-28	1.000000
PAH10+CH3	4.37338e-29	0.999999	4.37405e-29	1.000000
rad43	2.82699e-29	0.999999	2.82743e-29	1.000000
rad51	1.30842e-29	0.999999	1.30862e-29	1.000000
rad62	4.97289e-30	0.999999	4.97366e-30	1.000000
rad65	1.62676e-32	0.999999	1.62701e-32	1.000000
rad70	9.95387e-33	0.999999	9.95539e-33	1.000000
PhcycC3H3_A+H	7.76774e-33	0.999999	7.76893e-33	1.000000
rad55	3.44305e-33	0.999999	3.44358e-33	1.000000
rad58	1.29173e-35	0.999999	1.29193e-35	1.000000
PAH1+H	5.03061e-36	0.999999	5.03138e-36	1.000000
rad34	1.45961e-37	0.999999	1.45983e-37	1.000000
rad47	3.54219e-39	0.999999	3.54273e-39	1.000000
rad42	8.14177e-40	0.999999	8.14301e-40	1.000000
rad41	4.88195e-40	0.999999	4.88270e-40	1.000000

10.0000000 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.30956e-27 (1.00)	8.30794e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.851030	0.851030	0.851196	0.851196
rad23	0.101030	0.952060	0.101050	0.952246
rad22	0.0431367	0.995197	0.0431451	0.995391
rad45	0.00378193	0.998979	0.00378267	0.999174
rad6	0.000358644	0.999337	0.000358714	0.999532
rad36	0.000236964	0.999574	0.000237010	0.999769
rad11	0.000228545	0.999803	0.000228589	0.999998
Benzyl+C2H2	0.000194598	0.999997	0.000000	0.999998
rad18	1.81341e-06	0.999999	1.81377e-06	1.000000
rad20	2.56739e-07	0.999999	2.56789e-07	1.000000
rad21	1.60288e-07	1.000000	1.60319e-07	1.000000
rad7	6.01405e-08	1.000000	6.01522e-08	1.000000
rad30	2.18360e-09	1.000000	2.18402e-09	1.000000
rad13	2.39398e-10	1.000000	2.39445e-10	1.000000
rad15	1.37905e-10	1.000000	1.37932e-10	1.000000
rad3	5.79466e-11	1.000000	5.79579e-11	1.000000
PAH9+H	4.46344e-11	1.000000	4.46431e-11	1.000000
rad25	4.03630e-11	1.000000	4.03708e-11	1.000000
rad35	3.41589e-11	1.000000	3.41656e-11	1.000000
rad24	3.18926e-11	1.000000	3.18989e-11	1.000000
rad2	3.09050e-11	1.000000	3.09110e-11	1.000000
rad4	2.99464e-11	1.000000	2.99522e-11	1.000000
rad38	9.67995e-12	1.000000	9.68184e-12	1.000000
rad1	2.11792e-12	1.000000	2.11833e-12	1.000000
PhCHCCH2+H	1.67552e-12	1.000000	1.67584e-12	1.000000
rad10	1.27176e-12	1.000000	1.27201e-12	1.000000
rad28	1.23229e-12	1.000000	1.23253e-12	1.000000
rad33	3.27103e-13	1.000000	3.27167e-13	1.000000
PhCCH+CH3	7.51717e-14	1.000000	7.51863e-14	1.000000
rad9	6.45605e-14	1.000000	6.45731e-14	1.000000
rad8	3.27052e-14	1.000000	3.27116e-14	1.000000
rad46	9.62161e-15	1.000000	9.62349e-15	1.000000
Ph+Allene	6.91902e-15	1.000000	6.92037e-15	1.000000
rad26	3.23855e-15	1.000000	3.23918e-15	1.000000
PhCCCH3+H	2.12676e-15	1.000000	2.12718e-15	1.000000
rad14	1.00545e-15	1.000000	1.00565e-15	1.000000
rad60syn	3.54415e-16	1.000000	3.54484e-16	1.000000
Ph+MeAc	1.38225e-16	1.000000	1.38252e-16	1.000000
rad60anti	7.41109e-17	1.000000	7.41253e-17	1.000000
PhCH2CCH+H	2.36123e-17	1.000000	2.36168e-17	1.000000

rad27	2.28584e-17	1.000000	2.28629e-17	1.00000
PAH7+H	1.46354e-18	1.000000	1.46383e-18	1.00000
rad39	2.17630e-19	1.000000	2.17673e-19	1.00000
PAH3+H	6.86883e-20	1.000000	6.87016e-20	1.00000
rad31	3.89806e-20	1.000000	3.89882e-20	1.00000
rad12	3.26689e-20	1.000000	3.26753e-20	1.00000
rad59	2.49028e-20	1.000000	2.49076e-20	1.00000
rad37	1.14608e-21	1.000000	1.14631e-21	1.00000
rad50	1.08788e-21	1.000000	1.08809e-21	1.00000
rad5	3.09480e-22	1.000000	3.09540e-22	1.00000
rad19syn	2.62226e-25	1.000000	2.62277e-25	1.00000
rad52	4.05973e-26	1.000000	4.06052e-26	1.00000
rad54	3.85352e-27	1.000000	3.85427e-27	1.00000
PAH10+CH3	8.61867e-28	1.000000	8.62035e-28	1.00000
rad43	4.86971e-28	1.000000	4.87066e-28	1.00000
rad51	2.49188e-28	1.000000	2.49237e-28	1.00000
rad62	1.10358e-28	1.000000	1.10380e-28	1.00000
rad70	6.49152e-30	1.000000	6.49279e-30	1.00000
rad58	1.86387e-30	1.000000	1.86423e-30	1.00000
PhcycC3H3_A+H	1.50944e-30	1.000000	1.50974e-30	1.00000
rad65	8.07776e-31	1.000000	8.07933e-31	1.00000
rad55	5.63809e-31	1.000000	5.63919e-31	1.00000
PAH1+H	1.38047e-33	1.000000	1.38074e-33	1.00000
rad34	4.52933e-35	1.000000	4.53022e-35	1.00000
rad47	7.21639e-37	1.000000	7.21779e-37	1.00000
rad42	1.60196e-37	1.000000	1.60227e-37	1.00000
rad41	7.85498e-38	1.000000	7.85650e-38	1.00000

10.0000000 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.40057e-26 (1.00)	3.39974e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.857826	0.857826	0.858037	0.858037
rad23	0.100937	0.958763	0.100962	0.958999
rad22	0.0363594	0.995122	0.0363684	0.995367
rad45	0.00375221	0.998875	0.00375313	0.999121
rad6	0.000422250	0.999297	0.000422354	0.999543
Benzyl+C2H2	0.000246044	0.999543	0.00000	0.999543
rad36	0.000235806	0.999779	0.000235864	0.999779
rad11	0.000220047	0.999999	0.000220102	0.999999
rad18	1.40433e-06	1.00000	1.40468e-06	1.00000
rad20	2.10433e-07	1.00000	2.10484e-07	1.00000
rad21	1.31489e-07	1.00000	1.31521e-07	1.00000
rad7	7.31227e-08	1.00000	7.31407e-08	1.00000
rad30	3.27079e-09	1.00000	3.27159e-09	1.00000
rad13	2.80248e-10	1.00000	2.80317e-10	1.00000
rad15	2.35229e-10	1.00000	2.35287e-10	1.00000
rad3	8.98334e-11	1.00000	8.98555e-11	1.00000
PAH9+H	7.39583e-11	1.00000	7.39765e-11	1.00000
rad2	6.35847e-11	1.00000	6.36003e-11	1.00000
rad25	5.70481e-11	1.00000	5.70622e-11	1.00000
rad35	5.42591e-11	1.00000	5.42724e-11	1.00000
rad4	4.65458e-11	1.00000	4.65573e-11	1.00000
rad24	3.19348e-11	1.00000	3.19427e-11	1.00000
rad38	1.64516e-11	1.00000	1.64556e-11	1.00000
rad1	4.39743e-12	1.00000	4.39851e-12	1.00000
PhCHCCH2+H	4.07819e-12	1.00000	4.07919e-12	1.00000
rad10	2.90548e-12	1.00000	2.90620e-12	1.00000
rad28	2.61787e-12	1.00000	2.61851e-12	1.00000
rad33	3.85878e-13	1.00000	3.85973e-13	1.00000
PhCCH+CH3	2.23055e-13	1.00000	2.23110e-13	1.00000
rad9	1.74278e-13	1.00000	1.74321e-13	1.00000
rad8	1.06078e-13	1.00000	1.06105e-13	1.00000
Ph+Allene	2.48064e-14	1.00000	2.48125e-14	1.00000
rad46	2.26163e-14	1.00000	2.26218e-14	1.00000
rad26	1.10148e-14	1.00000	1.10175e-14	1.00000
PhCCCH3+H	8.08240e-15	1.00000	8.08438e-15	1.00000
rad14	1.98824e-15	1.00000	1.98873e-15	1.00000
rad60syn	1.14025e-15	1.00000	1.14054e-15	1.00000
Ph+MeAc	6.45082e-16	1.00000	6.45241e-16	1.00000
rad60anti	2.55550e-16	1.00000	2.55613e-16	1.00000
PhCH2CCH+H	1.14921e-16	1.00000	1.14949e-16	1.00000
rad27	4.85030e-17	1.00000	4.85150e-17	1.00000
PAH7+H	6.92659e-18	1.00000	6.92829e-18	1.00000
rad39	1.10546e-18	1.00000	1.10573e-18	1.00000
PAH3+H	3.81229e-19	1.00000	3.81323e-19	1.00000

rad12	1.92942e-19	1.00000	1.92989e-19	1.00000
rad59	1.34609e-19	1.00000	1.34643e-19	1.00000
rad31	6.62576e-20	1.00000	6.62739e-20	1.00000
rad37	7.98927e-21	1.00000	7.99124e-21	1.00000
rad50	6.05947e-21	1.00000	6.06096e-21	1.00000
rad5	2.06460e-21	1.00000	2.06511e-21	1.00000
rad19syn	2.62835e-24	1.00000	2.62900e-24	1.00000
rad52	3.52497e-25	1.00000	3.52583e-25	1.00000
rad54	4.73135e-26	1.00000	4.73252e-26	1.00000
PAH10+CH3	1.18966e-26	1.00000	1.18996e-26	1.00000
rad43	6.09220e-27	1.00000	6.09370e-27	1.00000
rad51	3.18366e-27	1.00000	3.18444e-27	1.00000
rad62	1.57267e-27	1.00000	1.57305e-27	1.00000
rad70	1.46239e-28	1.00000	1.46275e-28	1.00000
rad58	5.53518e-29	1.00000	5.53654e-29	1.00000
PhcycC3H3_A+H	4.49817e-29	1.00000	4.49928e-29	1.00000
rad55	1.47527e-29	1.00000	1.47564e-29	1.00000
rad65	1.41812e-29	1.00000	1.41847e-29	1.00000
PAH1+H	1.29102e-31	1.00000	1.29134e-31	1.00000
rad34	4.75112e-33	1.00000	4.75229e-33	1.00000
rad47	1.38465e-34	1.00000	1.38499e-34	1.00000
rad42	1.36908e-35	1.00000	1.36941e-35	1.00000
rad41	5.65120e-36	1.00000	5.65259e-36	1.00000

10.0000000 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22933e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.863998	0.863998	0.864265	0.864265
rad23	0.100521	0.964519	0.100552	0.964817
rad22	0.0305196	0.995039	0.0305290	0.995346
rad45	0.00371349	0.998752	0.00371464	0.999061
rad6	0.000493282	0.999245	0.000493435	0.999554
Benzyl+C2H2	0.000309606	0.999555	0.000000	0.999554
rad36	0.000234183	0.999789	0.000234255	0.999788
rad11	0.000210018	0.999999	0.000210083	0.999998
rad18	1.09327e-06	1.00000	1.09360e-06	1.000000
rad20	1.73355e-07	1.00000	1.73409e-07	1.000000
rad21	1.08409e-07	1.00000	1.08442e-07	1.000000
rad7	8.77505e-08	1.00000	8.77777e-08	1.000000
rad30	4.79189e-09	1.00000	4.79338e-09	1.000000
rad15	3.87139e-10	1.00000	3.87259e-10	1.000000
rad13	3.25701e-10	1.00000	3.25802e-10	1.000000
rad3	1.35405e-10	1.00000	1.35447e-10	1.000000
rad2	1.25806e-10	1.00000	1.25845e-10	1.000000
PAH9+H	1.20639e-10	1.00000	1.20676e-10	1.000000
rad35	8.50778e-11	1.00000	8.51042e-11	1.000000
rad25	7.69421e-11	1.00000	7.69659e-11	1.000000
rad4	7.03564e-11	1.00000	7.03782e-11	1.000000
rad24	3.19145e-11	1.00000	3.19244e-11	1.000000
rad38	2.74728e-11	1.00000	2.74813e-11	1.000000
PhCHCCH2+H	9.30673e-12	1.00000	9.30962e-12	1.000000
rad1	8.78702e-12	1.00000	8.78974e-12	1.000000
rad10	6.28604e-12	1.00000	6.28799e-12	1.000000
rad28	5.40009e-12	1.00000	5.40176e-12	1.000000
PhCCH+CH3	6.24350e-13	1.00000	6.24544e-13	1.000000
rad33	4.51926e-13	1.00000	4.52066e-13	1.000000
rad9	4.35407e-13	1.00000	4.35542e-13	1.000000
rad8	3.11912e-13	1.00000	3.12008e-13	1.000000
Ph+Allene	8.02313e-14	1.00000	8.02561e-14	1.000000
rad46	5.03414e-14	1.00000	5.03570e-14	1.000000
rad26	3.49428e-14	1.00000	3.49536e-14	1.000000
PhCCCH3+H	2.85756e-14	1.00000	2.85845e-14	1.000000
rad14	3.69268e-15	1.00000	3.69383e-15	1.000000
rad60syn	3.32454e-15	1.00000	3.32557e-15	1.000000
Ph+MeAc	2.73099e-15	1.00000	2.73184e-15	1.000000
rad60anti	7.92872e-16	1.00000	7.93117e-16	1.000000
PhCH2CCH+H	4.92079e-16	1.00000	4.92231e-16	1.000000
rad27	9.82406e-17	1.00000	9.82711e-17	1.000000
PAH7+H	3.00625e-17	1.00000	3.00718e-17	1.000000
rad39	5.13713e-18	1.00000	5.13873e-18	1.000000
PAH3+H	1.82887e-18	1.00000	1.82943e-18	1.000000
rad12	1.01667e-18	1.00000	1.01698e-18	1.000000
rad59	6.29467e-19	1.00000	6.29662e-19	1.000000
rad31	1.10322e-19	1.00000	1.10357e-19	1.000000
rad37	4.84651e-20	1.00000	4.84801e-20	1.000000

rad50	2.93306e-20	1.00000	2.93397e-20	1.000000
rad5	1.19592e-20	1.00000	1.19629e-20	1.000000
rad19syn	2.18800e-23	1.00000	2.18868e-23	1.000000
rad52	2.54497e-24	1.00000	2.54576e-24	1.000000
rad54	4.73026e-25	1.00000	4.73172e-25	1.000000
PAH10+CH3	1.32574e-25	1.00000	1.32616e-25	1.000000
rad43	6.15023e-26	1.00000	6.15213e-26	1.000000
rad51	3.22236e-26	1.00000	3.22336e-26	1.000000
rad62	1.77932e-26	1.00000	1.77987e-26	1.000000
rad70	2.27498e-27	1.00000	2.27568e-27	1.000000
rad58	1.01287e-27	1.00000	1.01319e-27	1.000000
PhcycC3H3_A+H	9.72877e-28	1.00000	9.73178e-28	1.000000
rad55	2.82205e-28	1.00000	2.82293e-28	1.000000
rad65	1.84119e-28	1.00000	1.84176e-28	1.000000
PAH1+H	9.12873e-30	1.00000	9.13155e-30	1.000000
rad34	2.19051e-30	1.00000	2.19119e-30	1.000000
rad42	5.06153e-33	1.00000	5.06310e-33	1.000000
rad47	1.88543e-33	1.00000	1.88601e-33	1.000000
rad41	1.25727e-33	1.00000	1.25766e-33	1.000000

10.0000000 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.98936e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.869655	0.869655	0.869992	0.869992
rad23	0.0997729	0.969428	0.0998116	0.969804
rad22	0.0255152	0.994943	0.0255251	0.995329
rad45	0.00366545	0.998609	0.00366687	0.998996
rad6	0.000571959	0.999181	0.000572181	0.999568
Benzyl+C2H2	0.000387687	0.999568	0.00000	0.999568
rad36	0.000232072	0.999800	0.000232162	0.999800
rad11	0.000198709	0.999999	0.000198786	0.999999
rad18	8.55161e-07	1.000000	8.55492e-07	1.000000
rad20	1.43480e-07	1.000000	1.43535e-07	1.000000
rad7	1.04038e-07	1.000000	1.04078e-07	1.000000
rad21	8.97956e-08	1.000000	8.98305e-08	1.000000
rad30	6.88520e-09	1.000000	6.88787e-09	1.000000
rad15	6.17606e-10	1.000000	6.17846e-10	1.000000
rad13	3.75889e-10	1.000000	3.76035e-10	1.000000
rad2	2.40049e-10	1.000000	2.40142e-10	1.000000
rad3	1.98641e-10	1.000000	1.98718e-10	1.000000
PAH9+H	1.93686e-10	1.000000	1.93761e-10	1.000000
rad35	1.31623e-10	1.000000	1.31674e-10	1.000000
rad4	1.03531e-10	1.000000	1.03571e-10	1.000000
rad25	9.95403e-11	1.000000	9.95789e-11	1.000000
rad38	4.50869e-11	1.000000	4.51044e-11	1.000000
rad24	3.18277e-11	1.000000	3.18400e-11	1.000000
PhCHCCH2+H	2.00791e-11	1.000000	2.00869e-11	1.000000
rad1	1.69464e-11	1.000000	1.69530e-11	1.000000
rad10	1.29411e-11	1.000000	1.29462e-11	1.000000
rad28	1.08434e-11	1.000000	1.08476e-11	1.000000
PhCCH+CH3	1.66016e-12	1.000000	1.66081e-12	1.000000
rad9	1.01689e-12	1.000000	1.01728e-12	1.000000
rad8	8.41973e-13	1.000000	8.42299e-13	1.000000
rad33	5.25599e-13	1.000000	5.25803e-13	1.000000
Ph+Allene	2.37174e-13	1.000000	2.37266e-13	1.000000
rad46	1.06744e-13	1.000000	1.06786e-13	1.000000
rad26	1.03921e-13	1.000000	1.03961e-13	1.000000
PhCCCH3+H	9.44687e-14	1.000000	9.45053e-14	1.000000
Ph+MeAc	1.05818e-14	1.000000	1.05859e-14	1.000000
rad60syn	8.89648e-15	1.000000	8.89993e-15	1.000000
rad14	6.48498e-15	1.000000	6.48750e-15	1.000000
rad60anti	2.24375e-15	1.000000	2.24462e-15	1.000000
PhCH2CCH+H	1.88396e-15	1.000000	1.88469e-15	1.000000
rad27	1.90828e-16	1.000000	1.90902e-16	1.000000
PAH7+H	1.20796e-16	1.000000	1.20843e-16	1.000000
rad39	2.20068e-17	1.000000	2.20153e-17	1.000000
PAH3+H	7.72527e-18	1.000000	7.72827e-18	1.000000
rad12	4.81855e-18	1.000000	4.82042e-18	1.000000
rad59	2.59400e-18	1.000000	2.59501e-18	1.000000
rad37	2.59270e-19	1.000000	2.59371e-19	1.000000
rad31	1.80271e-19	1.000000	1.80341e-19	1.000000
rad50	1.25552e-19	1.000000	1.25600e-19	1.000000
rad5	6.10704e-20	1.000000	6.10940e-20	1.000000
rad19syn	1.53925e-22	1.000000	1.53985e-22	1.000000
rad52	1.56303e-23	1.000000	1.56364e-23	1.000000

rad54	3.86694e-24	1.00000	3.86844e-24	1.000000
PAH10+CH3	1.17913e-24	1.00000	1.17958e-24	1.000000
rad43	5.05979e-25	1.00000	5.06175e-25	1.000000
rad51	2.62382e-25	1.00000	2.62484e-25	1.000000
rad62	1.58785e-25	1.00000	1.58847e-25	1.000000
rad70	2.39779e-26	1.00000	2.39872e-26	1.000000
PhcycC3H3_A+H	1.25927e-26	1.00000	1.25976e-26	1.000000
rad58	1.12724e-26	1.00000	1.12767e-26	1.000000
rad55	3.41686e-27	1.00000	3.41819e-27	1.000000
rad65	1.75542e-27	1.00000	1.75610e-27	1.000000
PAH1+H	1.93103e-28	1.00000	1.93178e-28	1.000000
rad34	4.51235e-29	1.00000	4.51410e-29	1.000000
rad42	2.90398e-31	1.00000	2.90510e-31	1.000000
rad41	8.34627e-32	1.00000	8.34951e-32	1.000000
rad47	1.75780e-32	1.00000	1.75848e-32	1.000000

10.000000 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17707e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.874897	0.874897	0.875320	0.875320
rad23	0.0986866	0.973584	0.0987343	0.974054
rad22	0.0212497	0.994833	0.0212599	0.995314
rad45	0.00360786	0.998441	0.00360960	0.998924
rad6	0.000658478	0.999100	0.000658797	0.999583
Benzyl+C2H2	0.000483056	0.999583	0.000000	0.999583
rad36	0.000229456	0.999812	0.000229567	0.999812
rad11	0.000186406	0.999999	0.000186496	0.999999
rad18	6.71829e-07	0.999999	6.72154e-07	0.999999
rad7	1.21987e-07	0.999999	1.22046e-07	0.999999
rad20	1.19274e-07	0.999999	1.19331e-07	1.000000
rad21	7.47030e-08	1.000000	7.47391e-08	1.000000
rad30	9.72359e-09	1.000000	9.72829e-09	1.000000
rad15	9.58671e-10	1.000000	9.59135e-10	1.000000
rad2	4.42897e-10	1.000000	4.43111e-10	1.000000
rad13	4.30937e-10	1.000000	4.31145e-10	1.000000
PAH9+H	3.06039e-10	1.000000	3.06187e-10	1.000000
rad3	2.83999e-10	1.000000	2.84136e-10	1.000000
rad35	2.00848e-10	1.000000	2.00945e-10	1.000000
rad4	1.48512e-10	1.000000	1.48584e-10	1.000000
rad25	1.24073e-10	1.000000	1.24133e-10	1.000000
rad38	7.27313e-11	1.000000	7.27665e-11	1.000000
PhCHCCH2+H	4.12461e-11	1.000000	4.12660e-11	1.000000
rad24	3.16704e-11	1.000000	3.16857e-11	1.000000
rad1	3.16293e-11	1.000000	3.16446e-11	1.000000
rad10	2.54635e-11	1.000000	2.54758e-11	1.000000
rad28	2.12386e-11	1.000000	2.12488e-11	1.000000
PhCCH+CH3	4.21791e-12	1.000000	4.21995e-12	1.000000
rad9	2.23888e-12	1.000000	2.23996e-12	1.000000
rad8	2.10865e-12	1.000000	2.10967e-12	1.000000
Ph+Allene	6.47925e-13	1.000000	6.48238e-13	1.000000
rad33	6.07256e-13	1.000000	6.07549e-13	1.000000
PhCCCH3+H	2.93251e-13	1.000000	2.93393e-13	1.000000
rad26	2.90954e-13	1.000000	2.91095e-13	1.000000
rad46	2.16681e-13	1.000000	2.16786e-13	1.000000
Ph+MeAc	3.78049e-14	1.000000	3.78232e-14	1.000000
rad60syn	2.20839e-14	1.000000	2.20946e-14	1.000000
rad14	1.08333e-14	1.000000	1.08386e-14	1.000000
PhCH2CCH+H	6.53753e-15	1.000000	6.54069e-15	1.000000
rad60anti	5.85787e-15	1.000000	5.86070e-15	1.000000
PAH7+H	4.52803e-16	1.000000	4.53022e-16	1.000000
rad27	3.56932e-16	1.000000	3.57104e-16	1.000000
rad39	8.74476e-17	1.000000	8.74899e-17	1.000000
PAH3+H	2.91830e-17	1.000000	2.91971e-17	1.000000
rad12	2.06969e-17	1.000000	2.07069e-17	1.000000
rad59	9.56751e-18	1.000000	9.57214e-18	1.000000
rad37	1.23751e-18	1.000000	1.23811e-18	1.000000
rad50	4.82310e-19	1.000000	4.82543e-19	1.000000
rad31	2.89709e-19	1.000000	2.89849e-19	1.000000
rad5	2.78562e-19	1.000000	2.78697e-19	1.000000
rad19syn	9.35993e-22	1.000000	9.36446e-22	1.000000
rad52	8.33566e-23	1.000000	8.33969e-23	1.000000
rad54	2.67029e-23	1.000000	2.67158e-23	1.000000
PAH10+CH3	8.73363e-24	1.000000	8.73785e-24	1.000000
rad43	3.51496e-24	1.000000	3.51665e-24	1.000000
rad51	1.79364e-24	1.000000	1.79450e-24	1.000000

rad62	1.17403e-24	1.000000	1.17460e-24	1.000000
rad70	1.95862e-25	1.000000	1.95956e-25	1.000000
PhcycC3H3_A+H	1.13239e-25	1.000000	1.13294e-25	1.000000
rad58	9.42513e-26	1.000000	9.42969e-26	1.000000
rad55	2.99816e-26	1.000000	2.99960e-26	1.000000
rad65	1.34782e-26	1.000000	1.34847e-26	1.000000
PAH1+H	1.96195e-27	1.000000	1.96289e-27	1.000000
rad34	4.45712e-28	1.000000	4.45927e-28	1.000000
rad42	3.15010e-30	1.000000	3.15162e-30	1.000000
rad41	9.13901e-31	1.000000	9.14343e-31	1.000000
rad47	1.35093e-31	1.000000	1.35158e-31	1.000000

10.000000 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19261e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.879817	0.879817	0.880344	0.880344
rad23	0.0972573	0.977074	0.0973156	0.977660
rad22	0.0176328	0.994707	0.0176434	0.995303
rad45	0.00354062	0.998248	0.00354274	0.998846
rad6	0.000753030	0.999001	0.000753481	0.999599
Benzyl+C2H2	0.000598878	0.999600	0.000000	0.999599
rad36	0.000226322	0.999826	0.000226458	0.999826
rad11	0.000173410	0.999999	0.000173514	0.999999
rad18	5.29930e-07	1.000000	5.30247e-07	1.000000
rad7	1.41597e-07	1.000000	1.41682e-07	1.000000
rad20	9.95656e-08	1.000000	9.96253e-08	1.000000
rad21	6.24064e-08	1.000000	6.24438e-08	1.000000
rad30	1.35209e-08	1.000000	1.35290e-08	1.000000
rad15	1.45243e-09	1.000000	1.45330e-09	1.000000
rad2	7.92087e-10	1.000000	7.92562e-10	1.000000
rad13	4.90973e-10	1.000000	4.91268e-10	1.000000
PAH9+H	4.75909e-10	1.000000	4.76194e-10	1.000000
rad3	3.96317e-10	1.000000	3.96554e-10	1.000000
rad35	3.02220e-10	1.000000	3.02401e-10	1.000000
rad4	2.07993e-10	1.000000	2.08118e-10	1.000000
rad25	1.49579e-10	1.000000	1.49669e-10	1.000000
rad38	1.15345e-10	1.000000	1.15414e-10	1.000000
PhCHCCH2+H	8.11660e-11	1.000000	8.12146e-11	1.000000
rad1	5.72735e-11	1.000000	5.73078e-11	1.000000
rad10	4.80766e-11	1.000000	4.81054e-11	1.000000
rad28	4.06441e-11	1.000000	4.06685e-11	1.000000
rad24	3.14396e-11	1.000000	3.14585e-11	1.000000
PhCCH+CH3	1.02872e-11	1.000000	1.02934e-11	1.000000
rad8	4.94323e-12	1.000000	4.94619e-12	1.000000
rad9	4.68009e-12	1.000000	4.68290e-12	1.000000
Ph+Allene	1.65112e-12	1.000000	1.65211e-12	1.000000
PhCCCH3+H	8.57850e-13	1.000000	8.58364e-13	1.000000
rad26	7.69521e-13	1.000000	7.69982e-13	1.000000
rad33	6.97278e-13	1.000000	6.97696e-13	1.000000
rad46	4.22817e-13	1.000000	4.23070e-13	1.000000
Ph+MeAc	1.25327e-13	1.000000	1.25402e-13	1.000000
rad60syn	5.13090e-14	1.000000	5.13397e-14	1.000000
PhCH2CCH+H	2.07994e-14	1.000000	2.08119e-14	1.000000
rad14	1.73062e-14	1.000000	1.73166e-14	1.000000
rad60anti	1.42455e-14	1.000000	1.42541e-14	1.000000
PAH7+H	1.59272e-15	1.000000	1.59368e-15	1.000000
rad27	6.45105e-16	1.000000	6.45492e-16	1.000000
rad39	3.23959e-16	1.000000	3.24154e-16	1.000000
PAH3+H	9.98897e-17	1.000000	9.99496e-17	1.000000
rad12	8.11266e-17	1.000000	8.11752e-17	1.000000
rad59	3.19991e-17	1.000000	3.20183e-17	1.000000
rad37	5.32355e-18	1.000000	5.32674e-18	1.000000
rad50	1.68357e-18	1.000000	1.68458e-18	1.000000
rad5	1.14771e-18	1.000000	1.14840e-18	1.000000
rad31	4.58997e-19	1.000000	4.59272e-19	1.000000
rad19syn	5.01088e-21	1.000000	5.01388e-21	1.000000
rad52	3.92512e-22	1.000000	3.92747e-22	1.000000
rad54	1.60149e-22	1.000000	1.60245e-22	1.000000
PAH10+CH3	5.56960e-23	1.000000	5.57293e-23	1.000000
rad43	2.11396e-23	1.000000	2.11522e-23	1.000000
rad51	1.05861e-23	1.000000	1.05924e-23	1.000000
rad62	7.46061e-24	1.000000	7.46508e-24	1.000000
rad70	1.34930e-24	1.000000	1.35011e-24	1.000000
PhcycC3H3_A+H	8.47186e-25	1.000000	8.47694e-25	1.000000
rad58	6.60134e-25	1.000000	6.60530e-25	1.000000

rad55	2.19942e-25	1.00000	2.20074e-25	1.00000
rad65	8.79801e-26	1.00000	8.80328e-26	1.00000
PAH1+H	1.61304e-26	1.00000	1.61400e-26	1.00000
rad34	3.55933e-27	1.00000	3.56146e-27	1.00000
rad42	2.70718e-29	1.00000	2.70880e-29	1.00000
rad41	7.93271e-30	1.00000	7.93747e-30	1.00000
rad47	8.75074e-31	1.00000	8.75599e-31	1.00000

10.000000 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.03547e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.884493	0.884493	0.885147	0.885147
rad23	0.0954840	0.979977	0.0955546	0.980702
rad22	0.0145812	0.994558	0.0145920	0.995294
rad45	0.00346374	0.998022	0.00346630	0.998760
rad6	0.000855812	0.998878	0.000856444	0.999616
Benzyl+C2H2	0.000738741	0.999616	0.00000	0.999616
rad36	0.000222663	0.999839	0.000222827	0.999839
rad11	0.000160019	0.999999	0.000160137	0.999999
rad18	4.19581e-07	1.000000	4.19891e-07	1.000000
rad7	1.62864e-07	1.000000	1.62984e-07	1.000000
rad20	8.34510e-08	1.000000	8.35127e-08	1.000000
rad21	5.23452e-08	1.000000	5.23839e-08	1.000000
rad30	1.85387e-08	1.000000	1.85524e-08	1.000000
rad15	2.15335e-09	1.000000	2.15494e-09	1.000000
rad2	1.37608e-09	1.000000	1.37710e-09	1.000000
PAH9+H	7.28418e-10	1.000000	7.28957e-10	1.000000
rad13	5.56140e-10	1.000000	5.56552e-10	1.000000
rad3	5.40715e-10	1.000000	5.41115e-10	1.000000
rad35	4.48391e-10	1.000000	4.48723e-10	1.000000
rad4	2.84879e-10	1.000000	2.85090e-10	1.000000
rad38	1.79879e-10	1.000000	1.80012e-10	1.000000
rad25	1.74997e-10	1.000000	1.75127e-10	1.000000
PhCHCCH2+H	1.53833e-10	1.000000	1.53946e-10	1.000000
rad1	1.00838e-10	1.000000	1.00913e-10	1.000000
rad10	8.74056e-11	1.000000	8.74703e-11	1.000000
rad28	7.60929e-11	1.000000	7.61492e-11	1.000000
rad24	3.11331e-11	1.000000	3.11562e-11	1.000000
PhCCH+CH3	2.41733e-11	1.000000	2.41911e-11	1.000000
rad8	1.09292e-11	1.000000	1.09373e-11	1.000000
rad9	9.34489e-12	1.000000	9.35180e-12	1.000000
Ph+Allene	3.95650e-12	1.000000	3.95942e-12	1.000000
PhCCCH3+H	2.37238e-12	1.000000	2.37413e-12	1.000000
rad26	1.92828e-12	1.000000	1.92971e-12	1.000000
rad33	7.96084e-13	1.000000	7.96673e-13	1.000000
rad46	7.95921e-13	1.000000	7.96509e-13	1.000000
Ph+MeAc	3.87656e-13	1.000000	3.87943e-13	1.000000
rad60syn	1.12427e-13	1.000000	1.12510e-13	1.000000
PhCH2CCH+H	6.12679e-14	1.000000	6.13132e-14	1.000000
rad60anti	3.25338e-14	1.000000	3.25579e-14	1.000000
rad14	2.65634e-14	1.000000	2.65830e-14	1.000000
PAH7+H	5.28048e-15	1.000000	5.28439e-15	1.000000
rad27	1.12995e-15	1.000000	1.13078e-15	1.000000
rad39	1.12362e-15	1.000000	1.12445e-15	1.000000
PAH3+H	3.13271e-16	1.000000	3.13503e-16	1.000000
rad12	2.92081e-16	1.000000	2.92297e-16	1.000000
rad59	9.81315e-17	1.000000	9.82041e-17	1.000000
rad37	2.08242e-17	1.000000	2.08396e-17	1.000000
rad50	5.39680e-18	1.000000	5.40079e-18	1.000000
rad5	4.31273e-18	1.000000	4.31592e-18	1.000000
rad31	7.18762e-19	1.000000	7.19294e-19	1.000000
rad19syn	2.39510e-20	1.000000	2.39687e-20	1.000000
rad52	1.65493e-21	1.000000	1.65616e-21	1.000000
rad54	8.48142e-22	1.000000	8.48769e-22	1.000000
PAH10+CH3	3.11274e-22	1.000000	3.11505e-22	1.000000
rad43	1.11886e-22	1.000000	1.11969e-22	1.000000
rad51	5.49052e-23	1.000000	5.49457e-23	1.000000
rad62	4.15189e-23	1.000000	4.15496e-23	1.000000
rad70	8.05081e-24	1.000000	8.05676e-24	1.000000
PhcycC3H3_A+H	5.46204e-24	1.000000	5.46608e-24	1.000000
rad58	3.98966e-24	1.000000	3.99261e-24	1.000000
rad55	1.39270e-24	1.000000	1.39373e-24	1.000000
rad65	4.99392e-25	1.000000	4.99762e-25	1.000000
PAH1+H	1.13365e-25	1.000000	1.13449e-25	1.000000
rad34	2.43121e-26	1.000000	2.43301e-26	1.000000

rad42	1.98985e-28	1.000000	1.99132e-28	1.00000
rad41	5.89130e-29	1.000000	5.89566e-29	1.00000
rad47	4.87649e-30	1.000000	4.88010e-30	1.00000

10.0000000 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89186e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.888994	0.888994	0.889801	0.889801
rad23	0.0933701	0.982364	0.0934549	0.983256
rad22	0.0120187	0.994383	0.0120297	0.995286
rad45	0.00337740	0.997760	0.00338047	0.998666
rad6	0.000967039	0.998727	0.000967916	0.999634
Benzyl+C2H2	0.000906689	0.999634	0.00000	0.999634
rad36	0.000218476	0.999852	0.000218675	0.999853
rad11	0.000146515	0.999999	0.000146648	0.999999
rad18	3.33402e-07	0.999999	3.33704e-07	1.000000
rad7	1.85787e-07	0.999999	1.85956e-07	1.000000
rad20	7.02238e-08	1.000000	7.02875e-08	1.000000
rad21	4.40819e-08	1.000000	4.41219e-08	1.000000
rad30	2.50939e-08	1.000000	2.51167e-08	1.000000
rad15	3.13088e-09	1.000000	3.13372e-09	1.000000
rad2	2.32659e-09	1.000000	2.32870e-09	1.000000
PAH9+H	1.09758e-09	1.000000	1.09857e-09	1.000000
rad3	7.22524e-10	1.000000	7.23180e-10	1.000000
rad35	6.55961e-10	1.000000	6.56556e-10	1.000000
rad13	6.26600e-10	1.000000	6.27169e-10	1.000000
rad4	3.82260e-10	1.000000	3.82607e-10	1.000000
PhCHCCH2+H	2.82145e-10	1.000000	2.82401e-10	1.000000
rad38	2.75934e-10	1.000000	2.76185e-10	1.000000
rad25	1.99264e-10	1.000000	1.99445e-10	1.000000
rad1	1.72950e-10	1.000000	1.73106e-10	1.000000
rad10	1.53483e-10	1.000000	1.53622e-10	1.000000
rad28	1.39507e-10	1.000000	1.39633e-10	1.000000
PhCCH+CH3	5.48808e-11	1.000000	5.49306e-11	1.000000
rad24	3.07498e-11	1.000000	3.07777e-11	1.000000
rad8	2.29369e-11	1.000000	2.29577e-11	1.000000
rad9	1.79159e-11	1.000000	1.79322e-11	1.000000
Ph+Allene	8.97673e-12	1.000000	8.98488e-12	1.000000
PhCCCH3+H	6.22054e-12	1.000000	6.22618e-12	1.000000
rad26	4.58989e-12	1.000000	4.59406e-12	1.000000
rad46	1.44977e-12	1.000000	1.45108e-12	1.000000
Ph+MeAc	1.12433e-12	1.000000	1.12535e-12	1.000000
rad33	9.04144e-13	1.000000	9.04965e-13	1.000000
rad60syn	2.33836e-13	1.000000	2.34048e-13	1.000000
PhCH2CCH+H	1.68499e-13	1.000000	1.68652e-13	1.000000
rad60anti	7.02642e-14	1.000000	7.03280e-14	1.000000
rad14	3.93409e-14	1.000000	3.93766e-14	1.000000
PAH7+H	1.65561e-14	1.000000	1.65712e-14	1.000000
rad39	3.66173e-15	1.000000	3.66505e-15	1.000000
rad27	1.92279e-15	1.000000	1.92454e-15	1.000000
rad12	9.71725e-16	1.000000	9.72607e-16	1.000000
PAH3+H	9.08763e-16	1.000000	9.09588e-16	1.000000
rad59	2.78563e-16	1.000000	2.78816e-16	1.000000
rad37	7.46567e-17	1.000000	7.47245e-17	1.000000
rad50	1.60313e-17	1.000000	1.60459e-17	1.000000
rad5	1.49044e-17	1.000000	1.49179e-17	1.000000
rad31	1.11543e-18	1.000000	1.11644e-18	1.000000
rad19syn	1.03314e-19	1.000000	1.03408e-19	1.000000
rad52	6.32102e-21	1.000000	6.32676e-21	1.000000
rad54	4.01020e-21	1.000000	4.01384e-21	1.000000
PAH10+CH3	1.54218e-21	1.000000	1.54358e-21	1.000000
rad43	5.27365e-22	1.000000	5.27843e-22	1.000000
rad51	2.53366e-22	1.000000	2.53596e-22	1.000000
rad62	2.04736e-22	1.000000	2.04922e-22	1.000000
rad70	4.21074e-23	1.000000	4.21456e-23	1.000000
PhcycC3H3_A+H	3.06469e-23	1.000000	3.06747e-23	1.000000
rad58	2.10583e-23	1.000000	2.10774e-23	1.000000
rad55	7.69208e-24	1.000000	7.69907e-24	1.000000
rad65	2.49603e-24	1.000000	2.49830e-24	1.000000
PAH1+H	6.85236e-25	1.000000	6.85858e-25	1.000000
rad34	1.42989e-25	1.000000	1.43118e-25	1.000000
rad42	1.24896e-27	1.000000	1.25010e-27	1.000000
rad41	3.73363e-28	1.000000	3.73702e-28	1.000000
rad47	2.37616e-29	1.000000	2.37832e-29	1.000000

10.000000 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.19550e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.893375	0.893375	0.894365	0.894365
rad23	0.0909245	0.984299	0.0910253	0.985390
rad22	0.00987677	0.994176	0.00988771	0.995278
rad45	0.00328195	0.997458	0.00328559	0.998564
Benzyl+C2H2	0.00110724	0.998565	0.000000	0.998564
rad6	0.00108695	0.999652	0.00108816	0.999652
rad36	0.000213770	0.999866	0.000214007	0.999866
rad11	0.000133150	0.999999	0.000133298	0.999999
rad18	2.65835e-07	1.000000	2.66130e-07	0.999999
rad7	2.10375e-07	1.000000	2.10608e-07	1.000000
rad20	5.93286e-08	1.000000	5.93943e-08	1.000000
rad21	3.72719e-08	1.000000	3.73132e-08	1.000000
rad30	3.35668e-08	1.000000	3.36040e-08	1.000000
rad15	4.47243e-09	1.000000	4.47738e-09	1.000000
rad2	3.83416e-09	1.000000	3.83841e-09	1.000000
PAH9+H	1.62859e-09	1.000000	1.63040e-09	1.000000
rad3	9.47262e-10	1.000000	9.48312e-10	1.000000
rad35	9.46327e-10	1.000000	9.47376e-10	1.000000
rad13	7.02541e-10	1.000000	7.03320e-10	1.000000
rad4	5.03411e-10	1.000000	5.03969e-10	1.000000
PhCHCCH2+H	5.02913e-10	1.000000	5.03470e-10	1.000000
rad38	4.16518e-10	1.000000	4.16980e-10	1.000000
rad1	2.89417e-10	1.000000	2.89737e-10	1.000000
rad10	2.60995e-10	1.000000	2.61284e-10	1.000000
rad28	2.50651e-10	1.000000	2.50929e-10	1.000000
rad25	2.21403e-10	1.000000	2.21649e-10	1.000000
PhCCH+CH3	1.20628e-10	1.000000	1.20762e-10	1.000000
rad8	4.59451e-11	1.000000	4.59961e-11	1.000000
rad9	3.31274e-11	1.000000	3.31641e-11	1.000000
rad24	3.02897e-11	1.000000	3.03232e-11	1.000000
Ph+Allene	1.94002e-11	1.000000	1.94217e-11	1.000000
PhCCCH3+H	1.55073e-11	1.000000	1.55245e-11	1.000000
rad26	1.04026e-11	1.000000	1.04141e-11	1.000000
Ph+MeAc	3.07126e-12	1.000000	3.07466e-12	1.000000
rad46	2.56209e-12	1.000000	2.56493e-12	1.000000
rad33	1.02199e-12	1.000000	1.02312e-12	1.000000
rad60syn	4.64225e-13	1.000000	4.64740e-13	1.000000
PhCH2CCH+H	4.35787e-13	1.000000	4.36270e-13	1.000000
rad60anti	1.44368e-13	1.000000	1.44528e-13	1.000000
rad14	5.64342e-14	1.000000	5.64967e-14	1.000000
PAH7+H	4.92181e-14	1.000000	4.92727e-14	1.000000
rad39	1.12475e-14	1.000000	1.12600e-14	1.000000
rad27	3.18515e-15	1.000000	3.18868e-15	1.000000
rad12	3.00413e-15	1.000000	3.00746e-15	1.000000
PAH3+H	2.45838e-15	1.000000	2.46110e-15	1.000000
rad59	7.37924e-16	1.000000	7.38742e-16	1.000000
rad37	2.47033e-16	1.000000	2.47306e-16	1.000000
rad5	4.77192e-17	1.000000	4.77720e-17	1.000000
rad50	4.44739e-17	1.000000	4.45232e-17	1.000000
rad31	1.72005e-18	1.000000	1.72196e-18	1.000000
rad19syn	4.05901e-19	1.000000	4.06351e-19	1.000000
rad52	2.20902e-20	1.000000	2.21147e-20	1.000000
rad54	1.70982e-20	1.000000	1.71172e-20	1.000000
PAH10+CH3	6.84654e-21	1.000000	6.85413e-21	1.000000
rad43	2.23725e-21	1.000000	2.23973e-21	1.000000
rad51	1.05187e-21	1.000000	1.05304e-21	1.000000
rad62	9.04472e-22	1.000000	9.05474e-22	1.000000
rad70	1.95496e-22	1.000000	1.95713e-22	1.000000
PhcycC3H3_A+H	1.51640e-22	1.000000	1.51808e-22	1.000000
rad58	9.83594e-23	1.000000	9.84684e-23	1.000000
rad55	3.75371e-23	1.000000	3.75787e-23	1.000000
rad65	1.11198e-23	1.000000	1.11321e-23	1.000000
PAH1+H	3.61753e-24	1.000000	3.62154e-24	1.000000
rad34	7.35387e-25	1.000000	7.36202e-25	1.000000
rad42	6.81076e-27	1.000000	6.81831e-27	1.000000
rad41	2.05484e-27	1.000000	2.05712e-27	1.000000
rad47	1.02685e-28	1.000000	1.02799e-28	1.000000

10.000000 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 1.17740e-22 (1.00) 1.17545e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.907970	0.907970	0.909477	0.909477
rad23	0.0760854	0.984055	0.0762118	0.985689
rad22	0.00983256	0.993888	0.00984889	0.995538
rad45	0.00310952	0.996997	0.00311469	0.998652
Benzyl+C2H2	0.00165790	0.998655	0.000000	0.998652
rad6	0.00114613	0.999802	0.00114803	0.999800
rad36	0.000105982	0.999907	0.000106158	0.999907
rad11	8.94695e-05	0.999997	8.96181e-05	0.999996
rad18	1.86025e-06	0.999999	1.86334e-06	0.999998
rad20	7.48594e-07	1.000000	7.49837e-07	0.999999
rad21	4.76405e-07	1.000000	4.77196e-07	0.999999
rad7	2.21619e-07	1.000000	2.21987e-07	0.999999
rad30	3.73878e-08	1.000000	3.74499e-08	1.000000
rad2	1.12966e-08	1.000000	1.13153e-08	1.000000
PAH9+H	4.43424e-09	1.000000	4.44160e-09	1.000000
rad9	2.61330e-09	1.000000	2.61764e-09	1.000000
rad35	2.06304e-09	1.000000	2.06646e-09	1.000000
rad3	1.34748e-09	1.000000	1.34972e-09	1.000000
PhCCH+CH3	1.24899e-09	1.000000	1.25106e-09	1.000000
rad28	1.07653e-09	1.000000	1.07831e-09	1.000000
PhCHCCH2+H	1.06647e-09	1.000000	1.06824e-09	1.000000
rad38	9.27100e-10	1.000000	9.28640e-10	1.000000
rad1	8.51244e-10	1.000000	8.52658e-10	1.000000
rad13	7.97282e-10	1.000000	7.98606e-10	1.000000
rad10	7.84708e-10	1.000000	7.86011e-10	1.000000
rad4	6.70109e-10	1.000000	6.71222e-10	1.000000
PhCCCH3+H	2.76213e-10	1.000000	2.76672e-10	1.000000
rad25	1.91003e-10	1.000000	1.91320e-10	1.000000
rad26	1.03946e-10	1.000000	1.04118e-10	1.000000
Ph+MeAc	7.35859e-11	1.000000	7.37081e-11	1.000000
rad24	3.49146e-11	1.000000	3.49725e-11	1.000000
Ph+Allene	2.68091e-11	1.000000	2.68537e-11	1.000000
rad46	7.45233e-12	1.000000	7.46471e-12	1.000000
rad19anti	5.14651e-12	1.000000	5.15506e-12	1.000000
rad15	1.95581e-12	1.000000	1.95906e-12	1.000000
PAH7+H	1.93970e-12	1.000000	1.94292e-12	1.000000
PhCH2CCH+H	1.61186e-12	1.000000	1.61454e-12	1.000000
rad33	1.49138e-12	1.000000	1.49386e-12	1.000000
rad60syn	7.04905e-13	1.000000	7.06075e-13	1.000000
rad39	4.30704e-13	1.000000	4.31419e-13	1.000000
rad60anti	2.12265e-13	1.000000	2.12618e-13	1.000000
rad14	1.01196e-13	1.000000	1.01364e-13	1.000000
rad37	1.61243e-14	1.000000	1.61511e-14	1.000000
rad27	1.11441e-14	1.000000	1.11626e-14	1.000000
PAH3+H	6.22236e-15	1.000000	6.23269e-15	1.000000
rad59	1.44000e-15	1.000000	1.44239e-15	1.000000
rad50	2.99891e-16	1.000000	3.00389e-16	1.000000
rad19syn	3.03404e-17	1.000000	3.03908e-17	1.000000
rad12	2.71977e-17	1.000000	2.72428e-17	1.000000
rad31	8.08965e-18	1.000000	8.10308e-18	1.000000
rad5	6.16282e-18	1.000000	6.17306e-18	1.000000
rad54	2.06877e-18	1.000000	2.07220e-18	1.000000
PAH10+CH3	1.64402e-18	1.000000	1.64675e-18	1.000000
rad67	8.11763e-19	1.000000	8.13111e-19	1.000000
rad52	3.40969e-19	1.000000	3.41535e-19	1.000000
rad43	2.96881e-19	1.000000	2.97374e-19	1.000000
rad62	1.28165e-19	1.000000	1.28378e-19	1.000000
PhcycC3H3_A+H	6.55128e-20	1.000000	6.56216e-20	1.000000
rad51	3.84010e-20	1.000000	3.84648e-20	1.000000
rad70	2.21470e-20	1.000000	2.21838e-20	1.000000
rad55	1.05916e-20	1.000000	1.06092e-20	1.000000
PAH1+H	4.50088e-21	1.000000	4.50836e-21	1.000000
rad65	6.27010e-22	1.000000	6.28051e-22	1.000000
rad58	4.02509e-22	1.000000	4.03177e-22	1.000000
rad34	2.98185e-22	1.000000	2.98680e-22	1.000000
rad42	1.22637e-23	1.000000	1.22841e-23	1.000000
rad41	4.48870e-24	1.000000	4.49615e-24	1.000000
rad53	4.39541e-25	1.000000	4.40271e-25	1.000000
rad64	1.19582e-25	1.000000	1.19780e-25	1.000000
rad47	2.23986e-27	1.000000	2.24358e-27	1.000000
rad56	1.41206e-27	1.000000	1.41441e-27	1.000000
rad61	2.12258e-28	1.000000	2.12610e-28	1.000000
rad68syn	1.35830e-28	1.000000	1.36056e-28	1.000000
rad68anti	9.79379e-29	1.000000	9.81005e-29	1.000000
rad73	7.41764e-29	1.000000	7.42996e-29	1.000000
rad71	2.83247e-30	1.000000	2.83717e-30	1.000000

rad40syn	2.26625e-31	1.00000	2.27002e-31	1.000000
PAH8+H	7.35839e-32	1.00000	7.37061e-32	1.000000
rad40anti	7.21700e-32	1.00000	7.22899e-32	1.000000
rad72	4.90235e-36	1.00000	4.91049e-36	1.000000
rad8	1.57348e-39	1.00000	1.57609e-39	1.000000

10.000000 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.44453e-22 (1.00)	2.44056e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.901924	0.901924	0.903394	0.903394
rad23	0.0851019	0.987026	0.0852406	0.988635
rad22	0.00661582	0.993642	0.00662660	0.995261
rad45	0.00306605	0.996708	0.00307104	0.998332
Benzyl+C2H2	0.00162676	0.998335	0.000000	0.998332
rad6	0.00135392	0.999688	0.00135613	0.999688
rad36	0.000202866	0.999891	0.000203197	0.999892
rad11	0.000107678	0.999999	0.000107853	0.999999
rad7	2.64614e-07	0.999999	2.65045e-07	1.000000
rad18	1.70700e-07	0.999999	1.70978e-07	1.000000
rad30	5.81526e-08	0.999999	5.82474e-08	1.000000
rad20	4.28635e-08	1.000000	4.29334e-08	1.000000
rad21	2.69739e-08	1.000000	2.70178e-08	1.000000
rad2	9.68911e-09	1.000000	9.70490e-09	1.000000
rad15	8.70682e-09	1.000000	8.72101e-09	1.000000
PAH9+H	3.42937e-09	1.000000	3.43496e-09	1.000000
rad35	1.89071e-09	1.000000	1.89379e-09	1.000000
rad3	1.54884e-09	1.000000	1.55137e-09	1.000000
PhCHCCH2+H	1.48839e-09	1.000000	1.49082e-09	1.000000
rad38	9.05937e-10	1.000000	9.07413e-10	1.000000
rad13	8.71755e-10	1.000000	8.73176e-10	1.000000
rad4	8.31302e-10	1.000000	8.32656e-10	1.000000
rad28	7.62980e-10	1.000000	7.64223e-10	1.000000
rad1	7.56474e-10	1.000000	7.57706e-10	1.000000
rad10	6.91304e-10	1.000000	6.92430e-10	1.000000
PhCCH+CH3	5.31890e-10	1.000000	5.32757e-10	1.000000
rad25	2.56218e-10	1.000000	2.56635e-10	1.000000
rad8	1.63268e-10	1.000000	1.63534e-10	1.000000
rad9	1.03141e-10	1.000000	1.03310e-10	1.000000
PhCCCH3+H	8.36883e-11	1.000000	8.38246e-11	1.000000
Ph+Allene	7.99181e-11	1.000000	8.00483e-11	1.000000
rad26	4.65332e-11	1.000000	4.66091e-11	1.000000
rad24	2.91465e-11	1.000000	2.91940e-11	1.000000
Ph+MeAc	1.94523e-11	1.000000	1.94840e-11	1.000000
rad46	7.37525e-12	1.000000	7.38726e-12	1.000000
PhCH2CCH+H	2.48313e-12	1.000000	2.48718e-12	1.000000
rad60syn	1.62065e-12	1.000000	1.62329e-12	1.000000
rad33	1.28953e-12	1.000000	1.29163e-12	1.000000
rad60anti	5.35278e-13	1.000000	5.36151e-13	1.000000
PAH7+H	3.73814e-13	1.000000	3.74423e-13	1.000000
rad14	1.06949e-13	1.000000	1.07123e-13	1.000000
rad39	8.98462e-14	1.000000	8.99926e-14	1.000000
rad12	2.35137e-14	1.000000	2.35520e-14	1.000000
PAH3+H	1.49898e-14	1.000000	1.50143e-14	1.000000
rad27	8.11319e-15	1.000000	8.12641e-15	1.000000
rad59	4.32351e-15	1.000000	4.33055e-15	1.000000
rad37	2.17938e-15	1.000000	2.18293e-15	1.000000
rad5	3.98718e-16	1.000000	3.99368e-16	1.000000
rad50	2.86096e-16	1.000000	2.86562e-16	1.000000
rad19syn	4.87799e-18	1.000000	4.88594e-18	1.000000
rad31	4.05491e-18	1.000000	4.06151e-18	1.000000
rad54	2.35582e-19	1.000000	2.35966e-19	1.000000
rad52	2.13523e-19	1.000000	2.13871e-19	1.000000
PAH10+CH3	1.00686e-19	1.000000	1.00850e-19	1.000000
rad43	3.04204e-20	1.000000	3.04700e-20	1.000000
rad51	1.36968e-20	1.000000	1.37191e-20	1.000000
rad62	1.31683e-20	1.000000	1.31897e-20	1.000000
rad70	3.07373e-21	1.000000	3.07874e-21	1.000000
PhcycC3H3_A+H	2.66053e-21	1.000000	2.66486e-21	1.000000
rad58	1.55355e-21	1.000000	1.55608e-21	1.000000
rad55	6.43702e-22	1.000000	6.44751e-22	1.000000
rad65	1.62751e-22	1.000000	1.63016e-22	1.000000
PAH1+H	7.06031e-23	1.000000	7.07181e-23	1.000000
rad34	1.36710e-23	1.000000	1.36932e-23	1.000000
rad42	1.40101e-25	1.000000	1.40329e-25	1.000000
rad41	4.30218e-26	1.000000	4.30919e-26	1.000000

rad47 | 1.40285e-27 1.000000 | 1.40513e-27 1.00000

10.000000 Pa, 400.000000 K

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

Total | 3.60269e-20 (1.00) | 3.57093e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.944296	0.944296	0.952693	0.952693
rad23	0.0404463	0.984742	0.0408060	0.993499
Benzyl+C2H2	0.00881426	0.993557	0.00000	0.993499
rad6	0.00288911	0.996446	0.00291480	0.996414
rad45	0.00195573	0.998401	0.00197312	0.998387
rad22	0.00149497	0.999896	0.00150827	0.999895
rad36	7.49307e-05	0.999971	7.55970e-05	0.999971
rad11	2.64535e-05	0.999998	2.66887e-05	0.999997
rad7	5.67207e-07	0.999998	5.72251e-07	0.999998
rad30	4.00241e-07	0.999999	4.03801e-07	0.999998
rad18	3.19963e-07	0.999999	3.22809e-07	0.999999
PhCCH+CH3	2.56109e-07	0.999999	2.58386e-07	0.999999
rad2	2.44051e-07	1.000000	2.46221e-07	0.999999
rad20	2.35581e-07	1.000000	2.37676e-07	1.000000
rad21	1.54250e-07	1.000000	1.55622e-07	1.000000
PhCHCCH2+H	1.41132e-07	1.000000	1.42387e-07	1.000000
PAH9+H	7.42638e-08	1.000000	7.49242e-08	1.000000
rad28	6.98244e-08	1.000000	7.04453e-08	1.000000
PhCCCH3+H	6.25174e-08	1.000000	6.30733e-08	1.000000
rad35	2.85242e-08	1.000000	2.87779e-08	1.000000
Ph+MeAc	2.54202e-08	1.000000	2.56463e-08	1.000000
rad1	2.27123e-08	1.000000	2.29143e-08	1.000000
rad38	1.90698e-08	1.000000	1.92394e-08	1.000000
rad10	1.77884e-08	1.000000	1.79466e-08	1.000000
rad9	1.73627e-08	1.000000	1.75171e-08	1.000000
Ph+Allene	1.11328e-08	1.000000	1.12318e-08	1.000000
rad26	9.33906e-09	1.000000	9.42211e-09	1.000000
rad3	8.67313e-09	1.000000	8.75026e-09	1.000000
rad4	4.56759e-09	1.000000	4.60821e-09	1.000000
rad13	2.15571e-09	1.000000	2.17488e-09	1.000000
PAH7+H	1.37868e-09	1.000000	1.39094e-09	1.000000
PhCH2CCH+H	1.37105e-09	1.000000	1.38324e-09	1.000000
rad46	4.59028e-10	1.000000	4.63110e-10	1.000000
rad19anti	3.46312e-10	1.000000	3.49391e-10	1.000000
rad39	3.22581e-10	1.000000	3.25450e-10	1.000000
rad25	2.20848e-10	1.000000	2.22812e-10	1.000000
rad60syn	9.41526e-11	1.000000	9.49899e-11	1.000000
rad60anti	3.74259e-11	1.000000	3.77587e-11	1.000000
rad24	3.07106e-11	1.000000	3.09837e-11	1.000000
rad15	1.29418e-11	1.000000	1.30569e-11	1.000000
rad37	9.96327e-12	1.000000	1.00519e-11	1.000000
PAH3+H	6.48348e-12	1.000000	6.54114e-12	1.000000
rad33	4.55483e-12	1.000000	4.59533e-12	1.000000
rad59	1.35467e-12	1.000000	1.36672e-12	1.000000
rad14	8.89199e-13	1.000000	8.97107e-13	1.000000
rad50	8.42872e-13	1.000000	8.50367e-13	1.000000
rad27	2.65924e-13	1.000000	2.68289e-13	1.000000
rad19syn	6.81557e-14	1.000000	6.87618e-14	1.000000
rad52	8.96345e-15	1.000000	9.04316e-15	1.000000
rad54	6.49999e-15	1.000000	6.55779e-15	1.000000
rad51	5.66597e-15	1.000000	5.71635e-15	1.000000
PAH10+CH3	4.58581e-15	1.000000	4.62659e-15	1.000000
rad67	1.21819e-15	1.000000	1.22902e-15	1.000000
rad31	8.57829e-16	1.000000	8.65457e-16	1.000000
rad43	7.42498e-16	1.000000	7.49101e-16	1.000000
rad5	5.37446e-16	1.000000	5.42225e-16	1.000000
PhcycC3H3_A+H	4.18133e-16	1.000000	4.21852e-16	1.000000
rad62	3.97595e-16	1.000000	4.01131e-16	1.000000
rad12	2.94314e-16	1.000000	2.96932e-16	1.000000
rad65	1.55144e-16	1.000000	1.56524e-16	1.000000
rad70	1.40844e-16	1.000000	1.42096e-16	1.000000
rad55	5.94159e-17	1.000000	5.99443e-17	1.000000
PAH1+H	4.83501e-17	1.000000	4.87801e-17	1.000000
rad58	2.14331e-17	1.000000	2.16237e-17	1.000000
rad34	3.86137e-18	1.000000	3.89571e-18	1.000000
rad42	1.59888e-19	1.000000	1.61310e-19	1.000000
rad41	7.49346e-20	1.000000	7.56010e-20	1.000000
rad73	7.40227e-20	1.000000	7.46810e-20	1.000000
rad53	6.36900e-20	1.000000	6.42564e-20	1.000000
rad64	4.37642e-20	1.000000	4.41534e-20	1.000000

rad71	1.79849e-20	1.00000	1.81449e-20	1.00000
rad56	8.44317e-21	1.00000	8.51825e-21	1.00000
rad68syn	1.30962e-21	1.00000	1.32127e-21	1.00000
rad68anti	8.99619e-22	1.00000	9.07619e-22	1.00000
rad61	6.00818e-22	1.00000	6.06161e-22	1.00000
PAH8+H	1.99290e-22	1.00000	2.01062e-22	1.00000
rad47	8.73247e-23	1.00000	8.81012e-23	1.00000
rad40syn	7.91082e-23	1.00000	7.98117e-23	1.00000
rad40anti	2.88066e-23	1.00000	2.90628e-23	1.00000
rad72	9.56619e-24	1.00000	9.65126e-24	1.00000
rad8	2.51102e-35	1.00000	2.53335e-35	1.00000

10.0000000 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.18808e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.946877	0.946877	0.977059	0.977059
Benzyl+C2H2	0.0308915	0.977768	0.00000	0.977059
rad23	0.0151579	0.992926	0.0156411	0.992700
rad6	0.00560957	0.998536	0.00578838	0.998488
rad45	0.00116795	0.999704	0.00120518	0.999694
rad22	0.000210873	0.999915	0.000217595	0.999911
rad36	5.43783e-05	0.999969	5.61116e-05	0.999967
PhCCH+CH3	9.14919e-06	0.999978	9.44083e-06	0.999977
rad11	6.12944e-06	0.999984	6.32483e-06	0.999983
PhCHCCH2+H	4.28877e-06	0.999989	4.42548e-06	0.999988
rad30	2.18383e-06	0.999991	2.25345e-06	0.999990
PhCCCH3+H	1.99822e-06	0.999993	2.06191e-06	0.999992
rad2	1.27659e-06	0.999994	1.31729e-06	0.999993
Ph+MeAc	1.14937e-06	0.999995	1.18601e-06	0.999994
rad7	1.10819e-06	0.999996	1.14351e-06	0.999996
rad28	9.32791e-07	0.999997	9.62525e-07	0.999996
Ph+Allene	7.60221e-07	0.999998	7.84454e-07	0.999997
PAH9+H	7.50208e-07	0.999999	7.74121e-07	0.999998
rad38	2.34196e-07	0.999999	2.41661e-07	0.999998
rad35	2.30216e-07	0.999999	2.37555e-07	0.999999
rad1	1.52440e-07	1.000000	1.57299e-07	0.999999
PhCH2CCH+H	1.30869e-07	1.000000	1.35041e-07	0.999999
rad20	1.19042e-07	1.000000	1.22836e-07	0.999999
PAH7+H	1.12958e-07	1.000000	1.16559e-07	0.999999
rad26	9.80656e-08	1.000000	1.01192e-07	0.999999
rad21	8.27530e-08	1.00000	8.53909e-08	0.999999
rad10	8.16063e-08	1.00000	8.42076e-08	0.999999
rad18	7.58890e-08	1.00000	7.83081e-08	0.999999
rad9	3.71003e-08	1.00000	3.82829e-08	0.999999
rad3	3.62820e-08	1.00000	3.74385e-08	0.999999
rad39	2.71331e-08	1.00000	2.79980e-08	1.000000
rad4	2.04252e-08	1.00000	2.10762e-08	1.000000
rad46	1.65072e-08	1.00000	1.70334e-08	1.000000
rad19anti	8.05047e-09	1.00000	8.30708e-09	1.000000
rad13	4.86410e-09	1.00000	5.01915e-09	1.000000
rad60syn	2.17041e-09	1.00000	2.23959e-09	1.000000
rad60anti	9.77415e-10	1.00000	1.00857e-09	1.000000
rad50	9.31744e-10	1.00000	9.61445e-10	1.000000
rad37	6.46922e-10	1.00000	6.67543e-10	1.000000
PAH3+H	5.25382e-10	1.00000	5.42129e-10	1.000000
rad25	1.14982e-10	1.00000	1.18647e-10	1.000000
rad59	9.88637e-11	1.00000	1.02015e-10	1.000000
rad51	6.66934e-11	1.00000	6.88194e-11	1.000000
rad52	3.82212e-11	1.00000	3.94396e-11	1.000000
rad24	3.17894e-11	1.00000	3.28028e-11	1.000000
rad15	2.81015e-11	1.00000	2.89972e-11	1.000000
rad19syn	2.02955e-11	1.00000	2.09425e-11	1.000000
rad33	1.23909e-11	1.00000	1.27859e-11	1.000000
rad54	3.42978e-12	1.00000	3.53911e-12	1.000000
PAH10+CH3	3.39190e-12	1.00000	3.50003e-12	1.000000
rad14	3.32484e-12	1.00000	3.43082e-12	1.000000
rad65	1.97171e-12	1.00000	2.03456e-12	1.000000
rad27	1.42904e-12	1.00000	1.47459e-12	1.000000
PhcycC3H3_A+H	1.15093e-12	1.00000	1.18762e-12	1.000000
PAH1+H	8.55387e-13	1.00000	8.82654e-13	1.000000
rad67	6.58391e-13	1.00000	6.79378e-13	1.000000
rad70	3.03571e-13	1.00000	3.13247e-13	1.000000
rad43	1.99078e-13	1.00000	2.05423e-13	1.000000
rad62	1.42222e-13	1.00000	1.46755e-13	1.000000
rad73	1.25441e-13	1.00000	1.29439e-13	1.000000

rad71	9.89453e-14	1.00000	1.02099e-13	1.000000
rad55	9.69276e-14	1.00000	1.00017e-13	1.000000
rad58	8.06155e-14	1.00000	8.31852e-14	1.000000
rad31	5.36403e-14	1.00000	5.53501e-14	1.000000
rad34	3.88587e-14	1.00000	4.00974e-14	1.000000
rad64	8.61714e-15	1.00000	8.89182e-15	1.000000
rad5	5.11988e-15	1.00000	5.28308e-15	1.000000
rad53	4.20397e-15	1.00000	4.33797e-15	1.000000
rad56	2.14649e-15	1.00000	2.21492e-15	1.000000
rad12	1.62742e-15	1.00000	1.67930e-15	1.000000
rad72	1.11428e-15	1.00000	1.14980e-15	1.000000
PAH8+H	8.78647e-16	1.00000	9.06655e-16	1.000000
rad61	8.35015e-16	1.00000	8.61632e-16	1.000000
rad42	7.81262e-16	1.00000	8.06165e-16	1.000000
rad68syn	6.54151e-16	1.00000	6.75003e-16	1.000000
rad68anti	4.32841e-16	1.00000	4.46639e-16	1.000000
rad41	2.85153e-16	1.00000	2.94243e-16	1.000000
rad40syn	1.44836e-16	1.00000	1.49452e-16	1.000000
rad40anti	7.50181e-17	1.00000	7.74093e-17	1.000000
rad47	3.96177e-19	1.00000	4.08805e-19	1.000000
rad8	4.40225e-31	1.00000	4.54258e-31	1.000000

10.000000 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.36947e-17 (1.00)	1.26253e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.908029	0.908029	0.984938	0.984938
Benzyl+C2H2	0.0780845	0.986113	0.00000	0.984938
rad6	0.00816129	0.994275	0.00885253	0.993791
rad23	0.00486671	0.999142	0.00527891	0.999067
rad45	0.000576330	0.999718	0.000625144	0.999695
PhCCH+CH3	9.17162e-05	0.999810	9.94844e-05	0.999794
PhCHCCH2+H	4.21842e-05	0.999852	4.57571e-05	0.999840
rad36	3.39066e-05	0.999886	3.67784e-05	0.999877
rad22	3.17866e-05	0.999917	3.44789e-05	0.999911
PhCCCH3+H	1.70278e-05	0.999934	1.84700e-05	0.999930
Ph+Allene	1.42665e-05	0.999949	1.54749e-05	0.999945
Ph+MeAc	1.28330e-05	0.999962	1.39199e-05	0.999959
rad30	7.56293e-06	0.999969	8.20349e-06	0.999967
PAH9+H	7.36604e-06	0.999976	7.98994e-06	0.999975
rad28	3.63534e-06	0.999980	3.94325e-06	0.999979
rad2	3.33442e-06	0.999983	3.61684e-06	0.999983
PhCH2CCH+H	3.18987e-06	0.999987	3.46005e-06	0.999986
rad38	2.89127e-06	0.999990	3.13615e-06	0.999989
PAH7+H	2.15677e-06	0.999992	2.33945e-06	0.999992
rad11	1.76822e-06	0.999993	1.91799e-06	0.999994
rad7	1.66533e-06	0.999995	1.80638e-06	0.999995
rad35	1.61053e-06	0.999997	1.74694e-06	0.999997
rad46	5.61850e-07	0.999997	6.09438e-07	0.999998
rad39	5.50987e-07	0.999998	5.97655e-07	0.999998
rad1	4.92019e-07	0.999998	5.33692e-07	0.999999
rad26	2.73631e-07	0.999999	2.96808e-07	0.999999
rad50	2.45101e-07	0.999999	2.65860e-07	0.999999
rad10	1.35677e-07	0.999999	1.47168e-07	1.000000
rad20	1.06390e-07	0.999999	1.15401e-07	1.000000
rad19anti	1.02324e-07	0.999999	1.10990e-07	1.000000
rad3	9.57400e-08	0.999999	1.03849e-07	1.000000
rad21	8.14588e-08	0.999999	8.83582e-08	1.000000
rad4	5.82510e-08	0.999999	6.31847e-08	1.000000
rad51	5.37631e-08	0.999999	5.83168e-08	1.000000
rad9	5.29373e-08	1.000000	5.74210e-08	1.000000
rad18	2.82042e-08	1.000000	3.05930e-08	1.000000
rad60syn	2.00497e-08	1.000000	2.17478e-08	1.000000
rad52	1.82472e-08	1.000000	1.97928e-08	1.000000
PAH3+H	1.77783e-08	1.000000	1.92841e-08	1.000000
rad37	1.09197e-08	1.000000	1.18446e-08	1.000000
rad60anti	9.80718e-09	1.000000	1.06378e-08	1.000000
rad13	9.33571e-09	1.000000	1.01264e-08	1.000000
PAH10+CH3	3.43549e-09	1.000000	3.72647e-09	1.000000
rad59	2.56171e-09	1.000000	2.77868e-09	1.000000
PAH1+H	1.56307e-09	1.000000	1.69546e-09	1.000000
rad65	1.46942e-09	1.000000	1.59387e-09	1.000000
rad19syn	1.39186e-09	1.000000	1.50975e-09	1.000000
rad71	1.09017e-09	1.000000	1.18250e-09	1.000000
rad73	8.57071e-10	1.000000	9.29664e-10	1.000000
rad67	4.82409e-10	1.000000	5.23268e-10	1.000000

rad54	3.96700e-10	1.000000	4.30299e-10	1.00000
PhcycC3H3_A+H	3.80806e-10	1.000000	4.13060e-10	1.00000
rad70	2.15644e-10	1.000000	2.33909e-10	1.00000
rad24	8.32742e-11	1.000000	9.03274e-11	1.00000
rad58	6.56479e-11	1.000000	7.12082e-11	1.00000
rad25	5.34023e-11	1.000000	5.79253e-11	1.00000
rad34	5.30324e-11	1.000000	5.75241e-11	1.00000
rad15	3.82867e-11	1.000000	4.15295e-11	1.00000
rad33	3.29906e-11	1.000000	3.57848e-11	1.00000
rad72	3.10270e-11	1.000000	3.36549e-11	1.00000
rad64	2.72333e-11	1.000000	2.95399e-11	1.00000
rad55	2.17025e-11	1.000000	2.35407e-11	1.00000
rad62	1.70370e-11	1.000000	1.84800e-11	1.00000
rad43	1.35932e-11	1.000000	1.47445e-11	1.00000
PAH8+H	1.20679e-11	1.000000	1.30900e-11	1.00000
rad14	7.18047e-12	1.000000	7.78865e-12	1.00000
rad61	5.56225e-12	1.000000	6.03336e-12	1.00000
rad53	3.96776e-12	1.000000	4.30382e-12	1.00000
rad68syn	3.86986e-12	1.000000	4.19763e-12	1.00000
rad56	3.70026e-12	1.000000	4.01367e-12	1.00000
rad27	3.16698e-12	1.000000	3.43521e-12	1.00000
rad68anti	2.51909e-12	1.000000	2.73245e-12	1.00000
rad40syn	1.44605e-12	1.000000	1.56853e-12	1.00000
rad42	9.73016e-13	1.000000	1.05543e-12	1.00000
rad40anti	8.58702e-13	1.000000	9.31432e-13	1.00000
rad31	6.19808e-13	1.000000	6.72305e-13	1.00000
rad41	2.78880e-13	1.000000	3.02501e-13	1.00000
rad5	1.42563e-14	1.000000	1.54637e-14	1.00000
rad12	1.31248e-14	1.000000	1.42365e-14	1.00000
rad47	4.47866e-16	1.000000	4.85799e-16	1.00000
rad8	1.61683e-26	1.000000	1.75377e-26	1.00000

10.0000000 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	6.78833e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.835160	0.835160	0.987010	0.987010
Benzyl+C2H2	0.153849	0.989009	0.000000	0.987010
rad6	0.00846047	0.997469	0.00999877	0.997009
rad23	0.00135456	0.998824	0.00160085	0.998610
PhCCH+CH3	0.000384697	0.999209	0.000454643	0.999064
rad45	0.000206419	0.999415	0.000243951	0.999308
PhCHCCH2+H	0.000187544	0.999603	0.000221644	0.999530
Ph+Allene	0.000101518	0.999704	0.000119976	0.999650
PhCCCH3+H	6.01082e-05	0.999764	7.10372e-05	0.999721
Ph+MeAc	5.64115e-05	0.999821	6.66684e-05	0.999788
PAH9+H	4.13786e-05	0.999862	4.89021e-05	0.999836
PhCH2CCH+H	2.71780e-05	0.999889	3.21196e-05	0.999869
rad30	1.89599e-05	0.999908	2.24073e-05	0.999891
rad38	1.81801e-05	0.999926	2.14857e-05	0.999912
PAH7+H	1.54388e-05	0.999942	1.82459e-05	0.999931
rad36	1.38559e-05	0.999956	1.63752e-05	0.999947
rad35	7.29921e-06	0.999963	8.62636e-06	0.999956
rad28	6.09097e-06	0.999969	7.19844e-06	0.999963
rad22	5.82068e-06	0.999975	6.87901e-06	0.999970
rad46	5.07563e-06	0.999980	5.99849e-06	0.999976
rad39	4.45124e-06	0.999984	5.26057e-06	0.999981
rad2	4.42211e-06	0.999989	5.22615e-06	0.999986
rad50	3.91913e-06	0.999993	4.63171e-06	0.999991
rad7	1.88137e-06	0.999995	2.22345e-06	0.999993
rad51	1.10458e-06	0.999996	1.30542e-06	0.999994
rad11	9.74867e-07	0.999997	1.15212e-06	0.999996
rad1	7.43287e-07	0.999998	8.78433e-07	0.999996
rad19anti	7.10169e-07	0.999998	8.39293e-07	0.999997
rad26	3.54634e-07	0.999999	4.19114e-07	0.999998
rad52	3.33001e-07	0.999999	3.93548e-07	0.999998
PAH3+H	2.13774e-07	0.999999	2.52643e-07	0.999998
rad20	1.64447e-07	0.999999	1.94347e-07	0.999999
rad21	1.39047e-07	0.999999	1.64328e-07	0.999999
rad10	1.25972e-07	1.000000	1.48877e-07	0.999999
rad3	1.17706e-07	1.000000	1.39107e-07	0.999999
rad60syn	1.04466e-07	1.000000	1.23460e-07	0.999999
rad9	9.46158e-08	1.000000	1.11819e-07	0.999999
PAH10+CH3	7.93663e-08	1.000000	9.37969e-08	0.999999
rad37	7.93357e-08	1.000000	9.37607e-08	0.999999
rad4	7.65186e-08	1.000000	9.04314e-08	1.000000

rad60anti	5.42921e-08	1.00000	6.41636e-08	1.000000
PAH1+H	3.83843e-08	1.00000	4.53634e-08	1.000000
rad71	3.51961e-08	1.00000	4.15955e-08	1.000000
rad65	2.92962e-08	1.00000	3.46229e-08	1.000000
rad59	2.64424e-08	1.00000	3.12503e-08	1.000000
rad73	2.56986e-08	1.00000	3.03712e-08	1.000000
rad18	1.82987e-08	1.00000	2.16258e-08	1.000000
rad19syn	1.65719e-08	1.00000	1.95851e-08	1.000000
rad13	1.57270e-08	1.00000	1.85865e-08	1.000000
rad67	1.01355e-08	1.00000	1.19783e-08	1.000000
PhcycC3H3_A+H	5.90564e-09	1.00000	6.97942e-09	1.000000
rad54	5.06531e-09	1.00000	5.98630e-09	1.000000
rad70	4.90047e-09	1.00000	5.79149e-09	1.000000
rad58	1.38119e-09	1.00000	1.63233e-09	1.000000
rad34	1.31951e-09	1.00000	1.55942e-09	1.000000
rad72	1.13899e-09	1.00000	1.34609e-09	1.000000
rad64	7.21729e-10	1.00000	8.52956e-10	1.000000
rad24	5.77535e-10	1.00000	6.82544e-10	1.000000
PAH8+H	4.13188e-10	1.00000	4.88315e-10	1.000000
rad62	3.58590e-10	1.00000	4.23790e-10	1.000000
rad55	3.04513e-10	1.00000	3.59880e-10	1.000000
rad43	2.83435e-10	1.00000	3.34970e-10	1.000000
rad61	1.64188e-10	1.00000	1.94041e-10	1.000000
rad68syn	1.18156e-10	1.00000	1.39639e-10	1.000000
rad33	1.01222e-10	1.00000	1.19627e-10	1.000000
rad56	8.19781e-11	1.00000	9.68836e-11	1.000000
rad53	7.67547e-11	1.00000	9.07104e-11	1.000000
rad68anti	7.67434e-11	1.00000	9.06971e-11	1.000000
rad40syn	4.77346e-11	1.00000	5.64138e-11	1.000000
rad15	4.74152e-11	1.00000	5.60363e-11	1.000000
rad25	3.85881e-11	1.00000	4.56042e-11	1.000000
rad40anti	2.90087e-11	1.00000	3.42831e-11	1.000000
rad42	2.84725e-11	1.00000	3.36494e-11	1.000000
rad41	1.28526e-11	1.00000	1.51895e-11	1.000000
rad14	1.08054e-11	1.00000	1.27700e-11	1.000000
rad27	4.84036e-12	1.00000	5.72045e-12	1.000000
rad31	1.62008e-12	1.00000	1.91465e-12	1.000000
rad12	3.01374e-13	1.00000	3.56171e-13	1.000000
rad47	4.74882e-14	1.00000	5.61226e-14	1.000000
rad5	2.12540e-14	1.00000	2.51184e-14	1.000000
rad8	6.25056e-22	1.00000	7.38706e-22	1.000000

10.000000 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.12228e-16 (1.00)	2.33762e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.739454	0.739454	0.987663	0.987663
Benzyl+C2H2	0.251309	0.990763	0.000000	0.987663
rad6	0.00639534	0.997158	0.00854202	0.996205
PhCCH+CH3	0.000898399	0.998057	0.00119996	0.997405
PhCHCCH2+H	0.000485847	0.998543	0.000648929	0.998054
Ph+Allene	0.000375410	0.998918	0.000501422	0.998555
rad23	0.000370879	0.999289	0.000495370	0.999051
Ph+MeAc	0.000131540	0.999420	0.000175694	0.999226
PhCCCH3+H	0.000116015	0.999536	0.000154957	0.999381
PhCH2CCH+H	0.000110368	0.999647	0.000147414	0.999529
PAH9+H	8.22477e-05	0.999729	0.000109855	0.999639
rad45	7.36335e-05	0.999803	9.83497e-05	0.999737
PAH7+H	4.58131e-05	0.999848	6.11910e-05	0.999798
rad30	3.74319e-05	0.999886	4.99965e-05	0.999848
rad38	3.67186e-05	0.999923	4.90437e-05	0.999897
rad35	1.40260e-05	0.999937	1.87341e-05	0.999916
rad39	1.30028e-05	0.999950	1.73674e-05	0.999933
rad46	1.08918e-05	0.999961	1.45477e-05	0.999948
rad50	9.65271e-06	0.999970	1.28928e-05	0.999961
rad28	5.87768e-06	0.999976	7.85061e-06	0.999969
rad36	5.45577e-06	0.999982	7.28708e-06	0.999976
rad2	3.08345e-06	0.999985	4.11846e-06	0.999980
rad51	2.90772e-06	0.999988	3.88373e-06	0.999984
rad19anti	2.47943e-06	0.999990	3.31168e-06	0.999987
rad7	1.71606e-06	0.999992	2.29208e-06	0.999989
rad22	1.70061e-06	0.999993	2.27144e-06	0.999992
rad52	8.48207e-07	0.999994	1.13292e-06	0.999993
rad11	8.19038e-07	0.999995	1.09396e-06	0.999994
PAH3+H	7.66044e-07	0.999996	1.02318e-06	0.999995
rad1	5.27737e-07	0.999996	7.04879e-07	0.999996

rad20	3.64627e-07	0.999997	4.87020e-07	0.999996
rad60syn	3.36382e-07	0.999997	4.49294e-07	0.999997
rad21	3.17032e-07	0.999997	4.23449e-07	0.999997
rad26	2.88569e-07	0.999998	3.85432e-07	0.999997
rad9	2.32014e-07	0.999998	3.09893e-07	0.999998
PAH10+CH3	2.22238e-07	0.999998	2.96836e-07	0.999998
rad37	1.98246e-07	0.999998	2.64790e-07	0.999998
rad60anti	1.79922e-07	0.999999	2.40315e-07	0.999999
PAH1+H	1.06964e-07	0.999999	1.42869e-07	0.999999
rad71	1.04881e-07	0.999999	1.40085e-07	0.999999
rad59	9.93468e-08	0.999999	1.32694e-07	0.999999
rad3	8.19276e-08	0.999999	1.09428e-07	0.999999
rad10	7.90676e-08	0.999999	1.05608e-07	0.999999
rad65	7.63938e-08	0.999999	1.02036e-07	0.999999
rad73	7.50550e-08	0.999999	1.00248e-07	0.999999
rad19syn	6.52147e-08	0.999999	8.71050e-08	0.999999
rad4	5.49769e-08	0.999999	7.34307e-08	1.000000
rad67	2.81069e-08	0.999999	3.75415e-08	1.000000
rad13	2.68684e-08	0.999999	3.58872e-08	1.000000
rad18	2.07972e-08	0.999999	2.77780e-08	1.000000
rad54	1.79058e-08	0.999999	2.39161e-08	1.000000
PhcycC3H3_A+H	1.64063e-08	0.999999	2.19133e-08	1.000000
rad70	1.38953e-08	0.999999	1.85595e-08	1.000000
rad58	3.84497e-09	0.999999	5.13559e-09	1.000000
rad34	3.73151e-09	0.999999	4.98405e-09	1.000000
rad72	3.51423e-09	0.999999	4.69383e-09	1.000000
rad24	2.83748e-09	0.999999	3.78992e-09	1.000000
rad64	2.04079e-09	0.999999	2.72582e-09	1.000000
rad43	1.36864e-09	0.999999	1.82804e-09	1.000000
PAH8+H	1.27325e-09	0.999999	1.70063e-09	1.000000
rad62	1.25588e-09	0.999999	1.67743e-09	1.000000
rad55	9.16553e-10	0.999999	1.22421e-09	1.000000
rad61	4.85794e-10	0.999999	6.48858e-10	1.000000
rad33	4.20851e-10	0.999999	5.62116e-10	1.000000
rad68syn	3.47813e-10	0.999999	4.64562e-10	1.000000
rad68anti	2.25781e-10	0.999999	3.01567e-10	1.000000
rad56	2.20503e-10	0.999999	2.94518e-10	1.000000
rad53	2.00730e-10	0.999999	2.68108e-10	1.000000
rad40syn	1.47505e-10	0.999999	1.97018e-10	1.000000
rad42	9.26717e-11	0.999999	1.23778e-10	1.000000
rad40anti	9.17170e-11	0.999999	1.22503e-10	1.000000
rad41	7.89052e-11	0.999999	1.05391e-10	1.000000
rad15	7.11459e-11	0.999999	9.50271e-11	1.000000
rad25	5.37600e-11	0.999999	7.18053e-11	1.000000
rad14	1.58123e-11	0.999999	2.11199e-11	1.000000
rad27	7.68807e-12	0.999999	1.02687e-11	1.000000
rad12	6.45927e-12	0.999999	8.62742e-12	1.000000
rad31	1.97023e-12	0.999999	2.63156e-12	1.000000
rad47	2.69691e-13	0.999999	3.60217e-13	1.000000
rad5	2.43194e-14	0.999999	3.24826e-14	1.000000
rad8	6.08743e-18	0.999999	8.13076e-18	1.000000

10.000000 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.21769e-16 (1.00)	5.92285e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.634415	0.634415	0.987336	0.987336
Benzyl+C2H2	0.357448	0.991863	0.000000	0.987336
rad6	0.00363362	0.995497	0.00565499	0.992991
PhCCH+CH3	0.00145929	0.996956	0.00227108	0.995262
Ph+Allene	0.000944816	0.997901	0.00147041	0.996732
PhCHCCH2+H	0.000914634	0.998815	0.00142344	0.998156
PhCH2CCH+H	0.000310810	0.999126	0.000483711	0.998640
Ph+MeAc	0.000206759	0.999333	0.000321778	0.998961
PhCCCH3+H	0.000153945	0.999487	0.000239584	0.999201
rad23	0.000118733	0.999606	0.000184784	0.999386
PAH9+H	9.10037e-05	0.999697	0.000141629	0.999527
PAH7+H	8.62799e-05	0.999783	0.000134277	0.999662
rad30	6.21748e-05	0.999845	9.67623e-05	0.999758
rad38	3.90692e-05	0.999884	6.08031e-05	0.999819
rad45	2.98610e-05	0.999914	4.64725e-05	0.999866
rad39	2.24120e-05	0.999936	3.48797e-05	0.999901
rad35	1.66173e-05	0.999953	2.58615e-05	0.999926
rad46	1.05942e-05	0.999964	1.64876e-05	0.999943
rad50	8.97628e-06	0.999973	1.39697e-05	0.999957
rad19anti	6.33256e-06	0.999979	9.85533e-06	0.999967

rad28	3.84903e-06	0.999983	5.99022e-06	0.999973
rad51	2.75867e-06	0.999986	4.29331e-06	0.999977
rad36	2.45188e-06	0.999988	3.81584e-06	0.999981
PAH3+H	1.94505e-06	0.999990	3.02707e-06	0.999984
rad2	1.51208e-06	0.999991	2.35323e-06	0.999986
rad7	1.36304e-06	0.999993	2.12128e-06	0.999988
rad60syn	8.14656e-07	0.999994	1.26784e-06	0.999990
rad22	8.14363e-07	0.999994	1.26739e-06	0.999991
rad52	7.95057e-07	0.999995	1.23734e-06	0.999992
rad11	7.60538e-07	0.999996	1.18362e-06	0.999993
rad20	7.20411e-07	0.999997	1.12117e-06	0.999994
rad21	5.81850e-07	0.999997	9.05530e-07	0.999995
rad60anti	4.44932e-07	0.999998	6.92446e-07	0.999996
rad9	3.80124e-07	0.999998	5.91585e-07	0.999997
rad1	2.76252e-07	0.999998	4.29930e-07	0.999997
rad59	2.68200e-07	0.999999	4.17398e-07	0.999997
rad37	2.65682e-07	0.999999	4.13479e-07	0.999998
PAH10+CH3	2.26937e-07	0.999999	3.53180e-07	0.999998
rad19syn	1.90062e-07	0.999999	2.95792e-07	0.999999
rad26	1.78524e-07	1.000000	2.77836e-07	0.999999
PAH1+H	1.06733e-07	1.000000	1.66109e-07	0.999999
rad71	1.05277e-07	1.000000	1.63842e-07	0.999999
rad73	7.45938e-08	1.000000	1.16090e-07	0.999999
rad65	7.21783e-08	1.000000	1.12331e-07	0.999999
rad13	5.22974e-08	1.000000	8.13901e-08	0.999999
rad54	4.91254e-08	1.000000	7.64536e-08	1.000000
rad10	4.74673e-08	1.000000	7.38731e-08	1.000000
rad3	4.46046e-08	1.000000	6.94179e-08	1.000000
rad67	3.49661e-08	1.000000	5.44175e-08	1.000000
rad4	3.15320e-08	1.000000	4.90730e-08	1.000000
PhcycC3H3_A+H	2.86615e-08	1.000000	4.46058e-08	1.000000
rad18	2.79626e-08	1.000000	4.35180e-08	1.000000
rad70	1.65288e-08	1.000000	2.57237e-08	1.000000
rad24	5.68035e-09	1.000000	8.84029e-09	1.000000
rad58	5.01181e-09	1.000000	7.79984e-09	1.000000
rad34	3.96058e-09	1.000000	6.16383e-09	1.000000
rad72	3.59039e-09	1.000000	5.58770e-09	1.000000
rad43	2.46958e-09	1.000000	3.84339e-09	1.000000
rad62	2.13849e-09	1.000000	3.32812e-09	1.000000
rad55	2.03931e-09	1.000000	3.17376e-09	1.000000
rad64	2.00754e-09	1.000000	3.12432e-09	1.000000
rad33	1.58609e-09	1.000000	2.46843e-09	1.000000
PAH8+H	1.33290e-09	1.000000	2.07439e-09	1.000000
rad61	4.98459e-10	1.000000	7.75749e-10	1.000000
rad68syn	3.48287e-10	1.000000	5.42036e-10	1.000000
rad68anti	2.26058e-10	1.000000	3.51812e-10	1.000000
rad56	2.17892e-10	1.000000	3.39103e-10	1.000000
rad53	2.15038e-10	1.000000	3.34662e-10	1.000000
rad40syn	1.57429e-10	1.000000	2.45006e-10	1.000000
rad41	1.52497e-10	1.000000	2.37331e-10	1.000000
rad25	1.11536e-10	1.000000	1.73583e-10	1.000000
rad42	1.10509e-10	1.000000	1.71984e-10	1.000000
rad40anti	1.01264e-10	1.000000	1.57597e-10	1.000000
rad15	9.58547e-11	1.000000	1.49178e-10	1.000000
rad12	3.74216e-11	1.000000	5.82389e-11	1.000000
rad14	2.81148e-11	1.000000	4.37550e-11	1.000000
rad27	1.80412e-11	1.000000	2.80774e-11	1.000000
rad31	1.77296e-12	1.000000	2.75925e-12	1.000000
rad47	3.10110e-13	1.000000	4.82623e-13	1.000000
rad5	2.36442e-14	1.000000	3.67973e-14	1.000000
rad8	4.80356e-15	1.000000	7.47575e-15	1.000000

10.000000 Pa, 1000.00000 K

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

Total | 2.23691e-15 (1.00) | 1.20822e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.531676	0.531676	0.984355	0.984355
Benzyl+C2H2	0.459874	0.991550	0.000000	0.984355
PhCCH+CH3	0.00186320	0.993413	0.00344957	0.987805
Ph+Allene	0.00184519	0.995258	0.00341622	0.991221
rad6	0.00168080	0.996939	0.00311187	0.994333
PhCHCCH2+H	0.00141601	0.998355	0.00262164	0.996954
PhCH2CCH+H	0.000699679	0.999055	0.00129540	0.998250
Ph+MeAc	0.000255778	0.999311	0.000473552	0.998723
PhCCCH3+H	0.000159335	0.999470	0.000294996	0.999018
PAH7+H	0.000133844	0.999604	0.000247802	0.999266

PAH9+H	0.000100644	0.999704	0.000186334	0.999452
rad30	9.14054e-05	0.999796	0.000169230	0.999622
rad23	4.72562e-05	0.999843	8.74911e-05	0.999709
rad38	4.08135e-05	0.999884	7.55630e-05	0.999785
rad39	3.23066e-05	0.999916	5.98131e-05	0.999844
rad35	1.99461e-05	0.999936	3.69287e-05	0.999881
rad19anti	1.40451e-05	0.999950	2.60034e-05	0.999907
rad45	1.39769e-05	0.999964	2.58770e-05	0.999933
rad46	9.28411e-06	0.999974	1.71888e-05	0.999950
rad50	5.94216e-06	0.999979	1.10014e-05	0.999961
PAH3+H	4.85621e-06	0.999984	8.99088e-06	0.999970
rad28	1.98294e-06	0.999986	3.67125e-06	0.999974
rad51	1.76510e-06	0.999988	3.26793e-06	0.999977
rad60syn	1.66853e-06	0.999990	3.08914e-06	0.999980
rad36	1.21033e-06	0.999991	2.24083e-06	0.999983
rad7	1.06940e-06	0.999992	1.97990e-06	0.999985
rad20	9.70391e-07	0.999993	1.79660e-06	0.999987
rad60anti	9.30752e-07	0.999994	1.72321e-06	0.999988
rad11	7.84625e-07	0.999995	1.45267e-06	0.999990
rad21	6.90854e-07	0.999995	1.27906e-06	0.999991
rad59	6.61828e-07	0.999996	1.22532e-06	0.999992
rad2	6.60319e-07	0.999997	1.22253e-06	0.999993
rad52	5.13146e-07	0.999997	9.50048e-07	0.999994
rad22	5.04268e-07	0.999998	9.33611e-07	0.999995
rad19syn	4.85310e-07	0.999998	8.98513e-07	0.999996
rad9	3.68143e-07	0.999999	6.81588e-07	0.999997
rad37	2.99719e-07	0.999999	5.54905e-07	0.999997
PAH10+CH3	1.60779e-07	0.999999	2.97669e-07	0.999998
rad1	1.33602e-07	0.999999	2.47354e-07	0.999998
rad54	1.31743e-07	0.999999	2.43911e-07	0.999998
rad13	1.05294e-07	0.999999	1.94944e-07	0.999998
rad26	9.52818e-08	1.000000	1.76407e-07	0.999999
PAH1+H	7.83221e-08	1.000000	1.45007e-07	0.999999
PhcycC3H3_A+H	6.88342e-08	1.000000	1.27441e-07	0.999999
rad71	6.80770e-08	1.000000	1.26039e-07	0.999999
rad67	5.61496e-08	1.000000	1.03956e-07	0.999999
rad73	4.80542e-08	1.000000	8.89685e-08	0.999999
rad65	4.62225e-08	1.000000	8.55773e-08	0.999999
rad18	3.90128e-08	1.000000	7.22290e-08	0.999999
rad10	3.88869e-08	1.000000	7.19960e-08	0.999999
rad3	2.24426e-08	1.000000	4.15507e-08	0.999999
rad70	2.17954e-08	1.000000	4.03523e-08	1.000000
rad4	1.65425e-08	1.000000	3.06271e-08	1.000000
rad58	9.16821e-09	1.000000	1.69742e-08	1.000000
rad24	5.86723e-09	1.000000	1.08627e-08	1.000000
rad55	5.45546e-09	1.000000	1.01004e-08	1.000000
rad34	3.88608e-09	1.000000	7.19477e-09	1.000000
rad62	3.57234e-09	1.000000	6.61391e-09	1.000000
rad33	3.19844e-09	1.000000	5.92165e-09	1.000000
rad43	2.55243e-09	1.000000	4.72563e-09	1.000000
rad72	2.33800e-09	1.000000	4.32862e-09	1.000000
rad64	1.34077e-09	1.000000	2.48234e-09	1.000000
PAH8+H	8.95485e-10	1.000000	1.65792e-09	1.000000
rad61	3.32053e-10	1.000000	6.14770e-10	1.000000
rad53	2.75062e-10	1.000000	5.09255e-10	1.000000
rad25	2.36388e-10	1.000000	4.37654e-10	1.000000
rad68syn	2.32850e-10	1.000000	4.31102e-10	1.000000
rad56	1.85937e-10	1.000000	3.44247e-10	1.000000
rad68anti	1.51308e-10	1.000000	2.80134e-10	1.000000
rad41	1.41295e-10	1.000000	2.61597e-10	1.000000
rad15	1.09245e-10	1.000000	2.02258e-10	1.000000
rad40syn	1.08198e-10	1.000000	2.00321e-10	1.000000
rad42	1.06448e-10	1.000000	1.97080e-10	1.000000
rad12	8.41995e-11	1.000000	1.55889e-10	1.000000
rad40anti	7.12480e-11	1.000000	1.31910e-10	1.000000
rad14	4.74702e-11	1.000000	8.78873e-11	1.000000
rad27	3.51125e-11	1.000000	6.50080e-11	1.000000
rad31	1.36897e-12	1.000000	2.53453e-12	1.000000
rad8	3.10565e-13	1.000000	5.74986e-13	1.000000
rad47	2.01137e-13	1.000000	3.72390e-13	1.000000
rad5	2.31685e-14	1.000000	4.28947e-14	1.000000

10.000000 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.11110e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul

Benzy1+C2H2	0.550684	0.550684	0.00000	0.00000
Indene+H	0.439263	0.989947	0.977624	0.977624
Ph+Allene	0.00300348	0.992950	0.00668455	0.984309
PhCCH+CH3	0.00203773	0.994988	0.00453519	0.988844
PhCHCCH2+H	0.00193446	0.996923	0.00430534	0.993149
PhCH2CCH+H	0.00132696	0.998250	0.00295328	0.996102
rad6	0.000685705	0.998935	0.00152611	0.997628
Ph+MeAc	0.000274741	0.999210	0.000611465	0.998240
PAH7+H	0.000181861	0.999392	0.000404750	0.998645
PhCCCH3+H	0.000140995	0.999533	0.000313798	0.998958
PAH9+H	0.000128880	0.999662	0.000286836	0.999245
rad30	0.000123057	0.999785	0.000273876	0.999519
rad38	5.08243e-05	0.999836	0.000113115	0.999632
rad39	4.16629e-05	0.999877	9.27250e-05	0.999725
rad19anti	2.74736e-05	0.999905	6.11454e-05	0.999786
rad35	2.63481e-05	0.999931	5.86405e-05	0.999845
rad23	2.13276e-05	0.999953	4.74668e-05	0.999892
PAH3+H	1.10203e-05	0.999964	2.45268e-05	0.999917
rad46	1.03966e-05	0.999974	2.31387e-05	0.999940
rad45	6.98718e-06	0.999981	1.55507e-05	0.999956
rad50	4.16954e-06	0.999985	9.27974e-06	0.999965
rad60syn	3.00210e-06	0.999988	6.68147e-06	0.999971
rad60anti	1.70724e-06	0.999990	3.79964e-06	0.999975
rad59	1.44157e-06	0.999991	3.20836e-06	0.999978
rad51	1.05453e-06	0.999992	2.34696e-06	0.999981
rad19syn	1.03492e-06	0.999993	2.30333e-06	0.999983
rad28	9.04605e-07	0.999994	2.01329e-06	0.999985
rad7	8.91567e-07	0.999995	1.98427e-06	0.999987
rad11	8.71646e-07	0.999996	1.93994e-06	0.999989
rad20	8.36332e-07	0.999997	1.86134e-06	0.999991
rad36	6.21348e-07	0.999997	1.38287e-06	0.999992
rad21	5.32704e-07	0.999998	1.18559e-06	0.999993
rad37	3.35543e-07	0.999998	7.46786e-07	0.999994
rad52	3.25498e-07	0.999999	7.24429e-07	0.999995
rad9	3.03036e-07	0.999999	6.74438e-07	0.999996
rad54	3.01876e-07	0.999999	6.71855e-07	0.999996
rad22	2.96635e-07	1.000000	6.60191e-07	0.999997
rad2	2.73748e-07	1.000000	6.09254e-07	0.999998
PhcycC3H3_A+H	1.75511e-07	1.000000	3.90618e-07	0.999998
rad13	1.49598e-07	1.000000	3.32945e-07	0.999998
rad67	1.31698e-07	1.000000	2.93108e-07	0.999999
PAH10+CH3	1.17918e-07	1.000000	2.62439e-07	0.999999
PAH1+H	7.12470e-08	1.000000	1.58568e-07	0.999999
rad1	5.90974e-08	1.000000	1.31527e-07	0.999999
rad18	5.65060e-08	1.000000	1.25760e-07	0.999999
rad26	4.77908e-08	1.000000	1.06363e-07	0.999999
rad70	4.18761e-08	1.000000	9.31995e-08	0.999999
rad10	3.99880e-08	1.000000	8.89974e-08	1.000000
rad71	3.82098e-08	1.000000	8.50399e-08	1.000000
rad65	2.80075e-08	1.000000	6.23336e-08	1.000000
rad73	2.69785e-08	1.000000	6.00434e-08	1.000000
rad58	2.46156e-08	1.000000	5.47845e-08	1.000000
rad55	1.35305e-08	1.000000	3.01136e-08	1.000000
rad3	1.05173e-08	1.000000	2.34074e-08	1.000000
rad4	7.93535e-09	1.000000	1.76609e-08	1.000000
rad62	6.26461e-09	1.000000	1.39425e-08	1.000000
rad34	6.22770e-09	1.000000	1.38604e-08	1.000000
rad24	4.54596e-09	1.000000	1.01175e-08	1.000000
rad33	3.31023e-09	1.000000	7.36726e-09	1.000000
rad43	2.29320e-09	1.000000	5.10376e-09	1.000000
rad72	1.31438e-09	1.000000	2.92529e-09	1.000000
rad64	9.41276e-10	1.000000	2.09491e-09	1.000000
rad53	6.56687e-10	1.000000	1.46153e-09	1.000000
PAH8+H	5.31338e-10	1.000000	1.18255e-09	1.000000
rad25	3.55390e-10	1.000000	7.90956e-10	1.000000
rad56	3.14667e-10	1.000000	7.00323e-10	1.000000
rad61	1.92478e-10	1.000000	4.28380e-10	1.000000
rad68syn	1.68684e-10	1.000000	3.75424e-10	1.000000
rad42	1.41959e-10	1.000000	3.15943e-10	1.000000
rad15	1.38512e-10	1.000000	3.08272e-10	1.000000
rad12	1.25123e-10	1.000000	2.78474e-10	1.000000
rad68anti	1.10333e-10	1.000000	2.45558e-10	1.000000
rad41	9.04172e-11	1.000000	2.01233e-10	1.000000
rad40syn	6.68789e-11	1.000000	1.48846e-10	1.000000
rad14	5.56230e-11	1.000000	1.23795e-10	1.000000
rad40anti	4.30668e-11	1.000000	9.58496e-11	1.000000
rad27	3.70988e-11	1.000000	8.25672e-11	1.000000
rad8	3.04872e-12	1.000000	6.78523e-12	1.000000
rad31	9.50700e-13	1.000000	2.11588e-12	1.000000
rad47	1.12962e-13	1.000000	2.51408e-13	1.000000

rad5 | 2.46457e-14 1.00000 | 5.48515e-14 1.000000

10.000000 Pa, 1200.00000 K

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

Total | 8.84330e-15 (1.00) | 3.30106e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.626716	0.626716	0.00000	0.00000
Indene+H	0.360861	0.987577	0.966720	0.966720
Ph+Allene	0.00427802	0.991855	0.0114605	0.978181
PhCHCCH2+H	0.00242633	0.994281	0.00649997	0.984680
PhCH2CCH+H	0.00221483	0.996496	0.00593337	0.990614
PhCCH+CH3	0.00201440	0.998511	0.00539643	0.996010
rad6	0.000275129	0.998786	0.000737052	0.996747
Ph+MeAc	0.000270436	0.999056	0.000724478	0.997472
PAH7+H	0.000222850	0.999279	0.000596998	0.998069
PAH9+H	0.000175563	0.999455	0.000470321	0.998539
rad30	0.000155380	0.999610	0.000416251	0.998955
PhCCCH3+H	0.000113313	0.999723	0.000303558	0.999259
rad38	6.93487e-05	0.999793	0.000185780	0.999445
rad39	4.88406e-05	0.999841	0.000130840	0.999576
rad19anti	4.83131e-05	0.999890	0.000129427	0.999705
rad35	3.56742e-05	0.999925	9.55686e-05	0.999801
PAH3+H	2.21819e-05	0.999948	5.94237e-05	0.999860
rad46	1.43480e-05	0.999962	3.84374e-05	0.999898
rad23	1.04992e-05	0.999972	2.81265e-05	0.999927
rad60syn	4.87830e-06	0.999977	1.30686e-05	0.999940
rad50	4.22710e-06	0.999982	1.13241e-05	0.999951
rad45	3.61561e-06	0.999985	9.68596e-06	0.999961
rad60anti	2.82107e-06	0.999988	7.55744e-06	0.999968
rad59	2.77458e-06	0.999991	7.43289e-06	0.999976
rad19syn	1.87359e-06	0.999993	5.01921e-06	0.999981
rad11	9.02865e-07	0.999994	2.41871e-06	0.999983
rad7	7.97481e-07	0.999994	2.13639e-06	0.999985
rad51	7.77533e-07	0.999995	2.08296e-06	0.999987
rad54	5.83447e-07	0.999996	1.56301e-06	0.999989
rad20	5.40709e-07	0.999996	1.44852e-06	0.999990
rad28	4.08492e-07	0.999997	1.09432e-06	0.999991
PhcycC3H3_A+H	3.89671e-07	0.999997	1.04390e-06	0.999992
rad37	3.89086e-07	0.999997	1.04233e-06	0.999993
rad67	3.27227e-07	0.999998	8.76619e-07	0.999994
rad36	3.27049e-07	0.999998	8.76141e-07	0.999995
rad21	3.24878e-07	0.999998	8.70324e-07	0.999996
rad52	2.79273e-07	0.999999	7.48152e-07	0.999997
rad9	2.48143e-07	0.999999	6.64756e-07	0.999997
rad22	1.72162e-07	0.999999	4.61210e-07	0.999998
rad13	1.29594e-07	0.999999	3.47172e-07	0.999998
PAH10+CH3	1.23230e-07	0.999999	3.30123e-07	0.999999
rad2	1.06668e-07	0.999999	2.85755e-07	0.999999
PAH1+H	9.87511e-08	1.000000	2.64547e-07	0.999999
rad70	8.58458e-08	1.000000	2.29975e-07	0.999999
rad18	7.92627e-08	1.000000	2.12339e-07	1.000000
rad58	6.45002e-08	1.000000	1.72791e-07	1.000000
rad10	3.75523e-08	1.000000	1.00600e-07	1.000000
rad55	2.84012e-08	1.000000	7.60848e-08	1.000000
rad26	2.40433e-08	1.000000	6.44104e-08	1.000000
rad1	2.38393e-08	1.000000	6.38638e-08	1.000000
rad65	2.16735e-08	1.000000	5.80619e-08	1.000000
rad71	2.09350e-08	1.000000	5.60834e-08	1.000000
rad73	1.49874e-08	1.000000	4.01503e-08	1.000000
rad34	1.30214e-08	1.000000	3.48835e-08	1.000000
rad62	1.02841e-08	1.000000	2.75504e-08	1.000000
rad3	4.63441e-09	1.000000	1.24153e-08	1.000000
rad4	3.54445e-09	1.000000	9.49532e-09	1.000000
rad24	3.32861e-09	1.000000	8.91712e-09	1.000000
rad43	2.31008e-09	1.000000	6.18853e-09	1.000000
rad33	2.30356e-09	1.000000	6.17107e-09	1.000000
rad53	1.73831e-09	1.000000	4.65679e-09	1.000000
rad64	1.01861e-09	1.000000	2.72879e-09	1.000000
rad56	8.57195e-10	1.000000	2.29636e-09	1.000000
rad72	7.12883e-10	1.000000	1.90976e-09	1.000000
PAH8+H	4.02585e-10	1.000000	1.07850e-09	1.000000
rad25	3.53466e-10	1.000000	9.46911e-10	1.000000
rad42	2.47051e-10	1.000000	6.61832e-10	1.000000
rad68syn	2.25024e-10	1.000000	6.02824e-10	1.000000
rad15	2.23646e-10	1.000000	5.99131e-10	1.000000
rad12	1.56874e-10	1.000000	4.20253e-10	1.000000

rad68anti	1.48712e-10	1.00000	3.98389e-10	1.00000
rad61	1.19974e-10	1.00000	3.21403e-10	1.00000
rad41	6.02528e-11	1.00000	1.61413e-10	1.00000
rad40syn	5.89436e-11	1.00000	1.57906e-10	1.00000
rad14	4.30475e-11	1.00000	1.15321e-10	1.00000
rad40anti	3.38283e-11	1.00000	9.06236e-11	1.00000
rad27	2.30791e-11	1.00000	6.18273e-11	1.00000
rad8	9.94063e-12	1.00000	2.66302e-11	1.00000
rad31	6.19426e-13	1.00000	1.65940e-12	1.00000
rad47	7.28457e-14	1.00000	1.95148e-13	1.00000
rad5	2.96577e-14	1.00000	7.94509e-14	1.00000

10.0000000 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.52810e-14 (1.00)	4.76670e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.688063	0.688063	0.00000	0.00000
Indene+H	0.296803	0.984866	0.951483	0.951483
Ph+Allene	0.00552152	0.990388	0.0177007	0.969184
PhCH2CCH+H	0.00336823	0.993756	0.0107978	0.979981
PhCHCCH2+H	0.00286798	0.996624	0.00919410	0.989176
PhCCH+CH3	0.00186179	0.998486	0.00596847	0.995144
PAH7+H	0.000253227	0.998739	0.000811787	0.995956
Ph+MeAc	0.000252125	0.998991	0.000808256	0.996764
PAH9+H	0.000237378	0.999228	0.000760979	0.997525
rad30	0.000187161	0.999415	0.000599995	0.998125
rad6	0.000122641	0.999538	0.000393161	0.998518
rad38	9.50775e-05	0.999633	0.000304797	0.998823
PhCCCH3+H	8.62608e-05	0.999719	0.000276533	0.999100
rad19anti	7.78392e-05	0.999797	0.000249535	0.999349
rad39	5.32056e-05	0.999850	0.000170565	0.999520
rad35	4.74014e-05	0.999898	0.000151958	0.999672
PAH3+H	4.02265e-05	0.999938	0.000128957	0.999801
rad46	2.09886e-05	0.999959	6.72846e-05	0.999868
rad60syn	7.32374e-06	0.999966	2.34783e-05	0.999891
rad50	6.21064e-06	0.999973	1.99099e-05	0.999911
rad23	5.67156e-06	0.999978	1.81817e-05	0.999929
rad59	4.82075e-06	0.999983	1.54542e-05	0.999945
rad60anti	4.29699e-06	0.999987	1.37752e-05	0.999959
rad19syn	2.97878e-06	0.999990	9.54929e-06	0.999968
rad45	1.92210e-06	0.999992	6.16182e-06	0.999974
rad54	9.80351e-07	0.999993	3.14279e-06	0.999978
rad51	9.28183e-07	0.999994	2.97555e-06	0.999981
rad67	7.57519e-07	0.999995	2.42844e-06	0.999983
PhcycC3H3_A+H	7.46638e-07	0.999996	2.39355e-06	0.999985
rad11	7.46524e-07	0.999996	2.39319e-06	0.999988
rad7	6.88331e-07	0.999997	2.20663e-06	0.999990
rad37	4.76468e-07	0.999998	1.52745e-06	0.999991
rad52	3.79330e-07	0.999998	1.21605e-06	0.999993
rad20	3.23991e-07	0.999998	1.03864e-06	0.999994
rad28	2.01655e-07	0.999999	6.46461e-07	0.999994
rad9	1.99387e-07	0.999999	6.39188e-07	0.999995
PAH10+CH3	1.91125e-07	0.999999	6.12702e-07	0.999996
rad21	1.90676e-07	0.999999	6.11266e-07	0.999996
rad36	1.76313e-07	0.999999	5.65221e-07	0.999997
PAH1+H	1.66009e-07	0.999999	5.32188e-07	0.999997
rad70	1.61803e-07	1.000000	5.18705e-07	0.999998
rad58	1.49352e-07	1.000000	4.78790e-07	0.999998
rad22	1.14984e-07	1.000000	3.68613e-07	0.999999
rad18	8.53914e-08	1.000000	2.73746e-07	0.999999
rad13	8.00183e-08	1.000000	2.56521e-07	0.999999
rad55	5.13573e-08	1.000000	1.64640e-07	0.999999
rad2	3.96070e-08	1.000000	1.26971e-07	1.000000
rad65	2.74960e-08	1.000000	8.81459e-08	1.000000
rad34	2.65060e-08	1.000000	8.49722e-08	1.000000
rad10	2.63596e-08	1.000000	8.45028e-08	1.000000
rad62	1.53063e-08	1.000000	4.90686e-08	1.000000
rad71	1.26851e-08	1.000000	4.06654e-08	1.000000
rad26	1.26275e-08	1.000000	4.04809e-08	1.000000
rad73	9.80570e-09	1.000000	3.14349e-08	1.000000
rad1	9.02998e-09	1.000000	2.89481e-08	1.000000
rad53	4.04155e-09	1.000000	1.29563e-08	1.000000
rad43	2.61317e-09	1.000000	8.37723e-09	1.000000
rad24	2.43799e-09	1.000000	7.81565e-09	1.000000
rad56	2.24538e-09	1.000000	7.19818e-09	1.000000
rad3	1.98115e-09	1.000000	6.35112e-09	1.000000

rad64	1.67217e-09	1.00000	5.36060e-09	1.00000
rad4	1.52966e-09	1.00000	4.90375e-09	1.00000
rad33	1.40938e-09	1.00000	4.51815e-09	1.00000
PAH8+H	6.45835e-10	1.00000	2.07040e-09	1.00000
rad68syn	5.00118e-10	1.00000	1.60326e-09	1.00000
rad15	4.66581e-10	1.00000	1.49575e-09	1.00000
rad42	4.34011e-10	1.00000	1.39134e-09	1.00000
rad72	3.99455e-10	1.00000	1.28056e-09	1.00000
rad68anti	3.31165e-10	1.00000	1.06164e-09	1.00000
rad25	2.70250e-10	1.00000	8.66360e-10	1.00000
rad12	1.79383e-10	1.00000	5.75060e-10	1.00000
rad61	1.19014e-10	1.00000	3.81533e-10	1.00000
rad40syn	1.08519e-10	1.00000	3.47887e-10	1.00000
rad41	5.91015e-11	1.00000	1.89466e-10	1.00000
rad40anti	5.63189e-11	1.00000	1.80546e-10	1.00000
rad14	2.52552e-11	1.00000	8.09625e-11	1.00000
rad8	1.90190e-11	1.00000	6.09707e-11	1.00000
rad27	1.07658e-11	1.00000	3.45128e-11	1.00000
rad31	3.92120e-13	1.00000	1.25705e-12	1.00000
rad47	7.44840e-14	1.00000	2.38779e-13	1.00000
rad5	4.01856e-14	1.00000	1.28826e-13	1.00000

10.000000 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.46691e-14 (1.00)	6.50187e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.736437	0.736437	0.00000	0.00000
Indene+H	0.245578	0.982015	0.931763	0.931763
Ph+Allene	0.00662544	0.988640	0.0251380	0.956901
PhCH2CCH+H	0.00478680	0.993427	0.0181619	0.975063
PhCHCCH2+H	0.00325808	0.996685	0.0123617	0.987425
PhCCH+CH3	0.00164445	0.998330	0.00623931	0.993664
PAH9+H	0.000311240	0.998641	0.00118090	0.994845
PAH7+H	0.000273588	0.998915	0.00103804	0.995883
Ph+MeAc	0.000227786	0.999142	0.000864257	0.996747
rad30	0.000217664	0.999360	0.000825853	0.997573
rad38	0.000126787	0.999487	0.000481048	0.998054
rad19anti	0.000116609	0.999603	0.000442432	0.998496
PAH3+H	6.70197e-05	0.999670	0.000254283	0.998751
rad6	6.45506e-05	0.999735	0.000244915	0.998996
PhCCCH3+H	6.42458e-05	0.999799	0.000243759	0.999239
rad35	6.11009e-05	0.999860	0.000231826	0.999471
rad39	5.52282e-05	0.999916	0.000209544	0.999681
rad46	3.01743e-05	0.999946	0.000114486	0.999795
rad50	1.04197e-05	0.999956	3.95340e-05	0.999835
rad60syn	1.03347e-05	0.999967	3.92114e-05	0.999874
rad59	7.71754e-06	0.999974	2.92816e-05	0.999903
rad60anti	6.14023e-06	0.999980	2.32970e-05	0.999927
rad19syn	4.28566e-06	0.999985	1.62605e-05	0.999943
rad23	3.39665e-06	0.999988	1.28874e-05	0.999956
rad51	1.58941e-06	0.999990	6.03047e-06	0.999962
rad67	1.58742e-06	0.999991	6.02291e-06	0.999968
rad54	1.47640e-06	0.999993	5.60168e-06	0.999973
PhcycC3H3_A+H	1.26734e-06	0.999994	4.80849e-06	0.999978
rad45	1.05002e-06	0.999995	3.98394e-06	0.999982
rad52	6.53521e-07	0.999996	2.47956e-06	0.999985
rad37	6.19054e-07	0.999996	2.34879e-06	0.999987
rad7	4.95134e-07	0.999997	1.87862e-06	0.999989
rad11	4.84846e-07	0.999997	1.83958e-06	0.999991
PAH10+CH3	3.54263e-07	0.999998	1.34413e-06	0.999992
rad58	3.07752e-07	0.999998	1.16766e-06	0.999993
PAH1+H	2.79483e-07	0.999998	1.06040e-06	0.999994
rad70	2.76849e-07	0.999998	1.05041e-06	0.999995
rad20	1.97655e-07	0.999999	7.49936e-07	0.999996
rad9	1.56500e-07	0.999999	5.93786e-07	0.999997
rad21	1.15131e-07	0.999999	4.36824e-07	0.999997
rad28	1.14587e-07	0.999999	4.34762e-07	0.999998
rad36	9.75743e-08	0.999999	3.70212e-07	0.999998
rad22	9.52148e-08	0.999999	3.61260e-07	0.999998
rad55	8.24809e-08	0.999999	3.12945e-07	0.999999
rad18	6.72789e-08	0.999999	2.55267e-07	0.999999
rad34	4.92129e-08	0.999999	1.86722e-07	0.999999
rad65	4.82028e-08	1.000000	1.82889e-07	0.999999
rad13	4.35739e-08	1.000000	1.65326e-07	0.999999
rad62	2.08993e-08	1.000000	7.92954e-08	0.999999
rad2	1.44132e-08	1.000000	5.46861e-08	1.000000

rad10	1.35265e-08	1.000000	5.13217e-08	1.000000
rad71	1.19901e-08	1.000000	4.54922e-08	1.000000
rad73	1.09588e-08	1.000000	4.15793e-08	1.000000
rad53	8.17329e-09	1.000000	3.10107e-08	1.000000
rad26	6.91036e-09	1.000000	2.62190e-08	1.000000
rad56	5.11893e-09	1.000000	1.94220e-08	1.000000
rad1	3.33106e-09	1.000000	1.26386e-08	1.000000
rad43	3.13951e-09	1.000000	1.19118e-08	1.000000
rad64	3.07369e-09	1.000000	1.16621e-08	1.000000
rad24	1.79963e-09	1.000000	6.82808e-09	1.000000
PAH8+H	1.64411e-09	1.000000	6.23801e-09	1.000000
rad68syn	1.18194e-09	1.000000	4.48448e-09	1.000000
rad15	9.47615e-10	1.000000	3.59540e-09	1.000000
rad3	8.47348e-10	1.000000	3.21497e-09	1.000000
rad33	8.45698e-10	1.000000	3.20871e-09	1.000000
rad68anti	7.80699e-10	1.000000	2.96209e-09	1.000000
rad42	7.07541e-10	1.000000	2.68452e-09	1.000000
rad4	6.59338e-10	1.000000	2.50163e-09	1.000000
rad72	2.85988e-10	1.000000	1.08508e-09	1.000000
rad40syn	2.70735e-10	1.000000	1.02721e-09	1.000000
rad61	2.26490e-10	1.000000	8.59339e-10	1.000000
rad12	1.93246e-10	1.000000	7.33204e-10	1.000000
rad25	1.89540e-10	1.000000	7.19144e-10	1.000000
rad40anti	1.40392e-10	1.000000	5.32670e-10	1.000000
rad41	8.33579e-11	1.000000	3.16273e-10	1.000000
rad8	2.80156e-11	1.000000	1.06296e-10	1.000000
rad14	1.35583e-11	1.000000	5.14425e-11	1.000000
rad27	4.67905e-12	1.000000	1.77531e-11	1.000000
rad31	2.46771e-13	1.000000	9.36290e-13	1.000000
rad47	1.18667e-13	1.000000	4.50240e-13	1.000000
rad5	5.76970e-14	1.000000	2.18912e-13	1.000000

10.0000000 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.51605e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.774055	0.774055	0.00000	0.00000
Indene+H	0.205015	0.979070	0.907368	0.907368
Ph+Allene	0.00753512	0.986605	0.0333494	0.940717
PhCH2CCH+H	0.00647181	0.993077	0.0286433	0.969361
PhCHCCH2+H	0.00361349	0.996690	0.0159928	0.985353
PhCCH+CH3	0.00140923	0.998100	0.00623705	0.991591
PAH9+H	0.000394498	0.998494	0.00174599	0.993337
PAH7+H	0.000287161	0.998781	0.00127093	0.994607
rad30	0.000246482	0.999028	0.00109089	0.995698
Ph+MeAc	0.000203104	0.999231	0.000898908	0.996597
rad19anti	0.000164292	0.999395	0.000727135	0.997324
rad38	0.000163414	0.999559	0.000723248	0.998048
PAH3+H	0.000104232	0.999663	0.000461318	0.998509
rad35	7.64519e-05	0.999739	0.000338365	0.998847
rad39	5.60238e-05	0.999795	0.000247954	0.999095
PhCCCH3+H	4.82528e-05	0.999844	0.000213560	0.999309
rad46	4.17734e-05	0.999885	0.000184883	0.999494
rad6	3.90281e-05	0.999924	0.000172733	0.999666
rad50	1.73493e-05	0.999942	7.67854e-05	0.999743
rad60syn	1.38825e-05	0.999956	6.14420e-05	0.999805
rad59	1.15676e-05	0.999967	5.11965e-05	0.999856
rad60anti	8.33920e-06	0.999976	3.69081e-05	0.999893
rad19syn	5.71324e-06	0.999981	2.52860e-05	0.999918
rad67	3.02092e-06	0.999984	1.33702e-05	0.999931
rad51	2.95283e-06	0.999987	1.30688e-05	0.999945
rad23	2.25167e-06	0.999989	9.96556e-06	0.999954
rad54	2.04182e-06	0.999991	9.03680e-06	0.999964
PhcycC3H3_A+H	1.95389e-06	0.999993	8.64763e-06	0.999972
rad52	1.15441e-06	0.999995	5.10924e-06	0.999977
rad37	8.41949e-07	0.999995	3.72635e-06	0.999981
PAH10+CH3	6.72168e-07	0.999996	2.97492e-06	0.999984
rad45	5.90560e-07	0.999997	2.61373e-06	0.999987
rad58	5.75231e-07	0.999997	2.54589e-06	0.999989
PAH1+H	4.49441e-07	0.999998	1.98916e-06	0.999991
rad70	4.36903e-07	0.999998	1.93367e-06	0.999993
rad7	2.92977e-07	0.999998	1.29667e-06	0.999994
rad11	2.77320e-07	0.999999	1.22738e-06	0.999996
rad20	1.24489e-07	0.999999	5.50971e-07	0.999996
rad9	1.20793e-07	0.999999	5.34613e-07	0.999997
rad55	1.20719e-07	0.999999	5.34284e-07	0.999997

rad22	9.47559e-08	0.999999	4.19376e-07	0.999998
rad65	8.93812e-08	0.999999	3.95588e-07	0.999998
rad34	8.38228e-08	0.999999	3.70988e-07	0.999998
rad28	7.37608e-08	0.999999	3.26455e-07	0.999999
rad21	7.18541e-08	1.000000	3.18016e-07	0.999999
rad36	5.55629e-08	1.000000	2.45914e-07	0.999999
rad18	4.44234e-08	1.000000	1.96612e-07	0.999999
rad62	2.67157e-08	1.000000	1.18240e-07	1.000000
rad13	2.32460e-08	1.000000	1.02883e-07	1.000000
rad71	2.20996e-08	1.000000	9.78096e-08	1.000000
rad73	2.15533e-08	1.000000	9.53920e-08	1.000000
rad53	1.47147e-08	1.000000	6.51252e-08	1.000000
rad56	1.02661e-08	1.000000	4.54361e-08	1.000000
rad10	5.58190e-09	1.000000	2.47047e-08	1.000000
rad64	5.49830e-09	1.000000	2.43347e-08	1.000000
rad2	5.25041e-09	1.000000	2.32376e-08	1.000000
PAH8+H	4.23466e-09	1.000000	1.87420e-08	1.000000
rad43	3.96948e-09	1.000000	1.75684e-08	1.000000
rad26	3.76291e-09	1.000000	1.66541e-08	1.000000
rad68syn	2.57600e-09	1.000000	1.14010e-08	1.000000
rad68anti	1.69621e-09	1.000000	7.50717e-09	1.000000
rad15	1.43476e-09	1.000000	6.35004e-09	1.000000
rad24	1.34196e-09	1.000000	5.93932e-09	1.000000
rad1	1.22683e-09	1.000000	5.42979e-09	1.000000
rad42	1.06993e-09	1.000000	4.73537e-09	1.000000
rad40syn	6.53158e-10	1.000000	2.89079e-09	1.000000
rad61	5.45824e-10	1.000000	2.41574e-09	1.000000
rad33	5.08751e-10	1.000000	2.25166e-09	1.000000
rad72	4.16778e-10	1.000000	1.84460e-09	1.000000
rad3	3.69005e-10	1.000000	1.63316e-09	1.000000
rad40anti	3.47837e-10	1.000000	1.53948e-09	1.000000
rad4	2.89104e-10	1.000000	1.27953e-09	1.000000
rad12	1.99760e-10	1.000000	8.84108e-10	1.000000
rad41	1.38374e-10	1.000000	6.12424e-10	1.000000
rad25	1.31415e-10	1.000000	5.81624e-10	1.000000
rad8	3.58486e-11	1.000000	1.58661e-10	1.000000
rad14	7.35972e-12	1.000000	3.25731e-11	1.000000
rad27	2.07790e-12	1.000000	9.19650e-12	1.000000
rad47	2.16416e-13	1.000000	9.57828e-13	1.000000
rad31	1.56393e-13	1.000000	6.92174e-13	1.000000
rad5	7.95654e-14	1.000000	3.52145e-13	1.000000

10.000000 Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	1.49150e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837634	0.837634	0.00000	0.00000
Indene+H	0.133043	0.970677	0.819399	0.819399
PhCH2CCH+H	0.0118074	0.982484	0.0727211	0.892120
Ph+Allene	0.00950978	0.991994	0.0585700	0.950690
PhCHCCH2+H	0.00446820	0.996462	0.0275193	0.978209
PhCCH+CH3	0.000859623	0.997322	0.00529435	0.983504
PAH9+H	0.000557698	0.997880	0.00343482	0.986939
rad30	0.000325004	0.998205	0.00200168	0.988940
rad19anti	0.000321482	0.998526	0.00197998	0.990920
rad38	0.000287975	0.998814	0.00177362	0.992694
PAH7+H	0.000287151	0.999101	0.00176854	0.994462
PAH3+H	0.000275346	0.999377	0.00169584	0.996158
Ph+MeAc	0.000167522	0.999544	0.00103176	0.997190
rad35	0.000110189	0.999654	0.000678646	0.997869
rad46	7.56839e-05	0.999730	0.000466132	0.998335
rad39	5.92340e-05	0.999789	0.000364818	0.998700
rad50	4.49016e-05	0.999834	0.000276546	0.998976
PhCCCH3+H	3.18685e-05	0.999866	0.000196276	0.999172
rad59	2.75372e-05	0.999894	0.000169599	0.999342
rad60syn	2.64514e-05	0.999920	0.000162912	0.999505
rad60anti	1.77463e-05	0.999938	0.000109298	0.999614
rad51	1.16100e-05	0.999949	7.15052e-05	0.999686
rad67	1.00377e-05	0.999959	6.18214e-05	0.999748
rad6	9.22760e-06	0.999969	5.68321e-05	0.999804
rad19syn	8.19427e-06	0.999977	5.04679e-05	0.999855
PhcycC3H3_A+H	4.42203e-06	0.999981	2.72350e-05	0.999882
rad52	3.79505e-06	0.999985	2.33734e-05	0.999905
rad54	3.12764e-06	0.999988	1.92629e-05	0.999925
PAH10+CH3	2.64766e-06	0.999991	1.63067e-05	0.999941
rad58	2.01952e-06	0.999993	1.24381e-05	0.999953

rad37	1.71200e-06	0.999995	1.05441e-05	0.999964
PAH1+H	1.17285e-06	0.999996	7.22352e-06	0.999971
rad70	1.05664e-06	0.999997	6.50775e-06	0.999978
rad71	1.02440e-06	0.999998	6.30919e-06	0.999984
rad23	7.02644e-07	0.999999	4.32753e-06	0.999988
rad73	4.18039e-07	0.999999	2.57467e-06	0.999991
rad65	3.24352e-07	0.999999	1.99766e-06	0.999993
rad34	2.45587e-07	1.000000	1.51255e-06	0.999994
rad55	2.31208e-07	1.000000	1.42399e-06	0.999996
rad72	1.64626e-07	1.000000	1.01392e-06	0.999997
rad22	7.13006e-08	1.000000	4.39135e-07	0.999997
rad45	5.20416e-08	1.000000	3.20520e-07	0.999998
rad53	4.57274e-08	1.000000	2.81632e-07	0.999998
rad62	4.10018e-08	1.000000	2.52527e-07	0.999998
rad56	3.75919e-08	1.000000	2.31526e-07	0.999998
PAH8+H	3.61922e-08	1.000000	2.22905e-07	0.999999
rad7	2.67171e-08	1.000000	1.64549e-07	0.999999
rad11	2.48297e-08	1.000000	1.52924e-07	0.999999
rad28	2.20723e-08	1.000000	1.35942e-07	0.999999
rad64	2.12701e-08	1.000000	1.31001e-07	0.999999
rad9	1.41200e-08	1.000000	8.69640e-08	0.999999
rad68syn	1.32290e-08	1.000000	8.14765e-08	0.999999
rad20	1.26834e-08	1.000000	7.81158e-08	0.999999
rad36	8.74373e-09	1.000000	5.38520e-08	1.000000
rad43	8.69462e-09	1.000000	5.35495e-08	1.000000
rad68anti	8.56392e-09	1.000000	5.27445e-08	1.000000
rad21	6.67973e-09	1.000000	4.11399e-08	1.000000
rad18	5.91637e-09	1.000000	3.64385e-08	1.000000
rad40syn	4.36586e-09	1.000000	2.68890e-08	1.000000
rad61	3.92785e-09	1.000000	2.41913e-08	1.000000
rad40anti	2.75568e-09	1.000000	1.69720e-08	1.000000
rad42	2.58297e-09	1.000000	1.59083e-08	1.000000
rad13	1.36104e-09	1.000000	8.38255e-09	1.000000
rad15	6.95452e-10	1.000000	4.28324e-09	1.000000
rad41	5.85707e-10	1.000000	3.60733e-09	1.000000
rad26	4.47413e-10	1.000000	2.75558e-09	1.000000
rad10	2.23050e-10	1.000000	1.37375e-09	1.000000
rad24	1.70084e-10	1.000000	1.04754e-09	1.000000
rad2	9.58872e-11	1.000000	5.90562e-10	1.000000
rad12	4.26785e-11	1.000000	2.62854e-10	1.000000
rad33	3.26497e-11	1.000000	2.01087e-10	1.000000
rad1	2.41347e-11	1.000000	1.48644e-10	1.000000
rad8	1.74187e-11	1.000000	1.07280e-10	1.000000
rad25	1.28456e-11	1.000000	7.91153e-11	1.000000
rad3	8.12083e-12	1.000000	5.00156e-11	1.000000
rad4	5.14566e-12	1.000000	3.16917e-11	1.000000
rad14	5.10281e-13	1.000000	3.14278e-12	1.000000
rad47	2.80309e-13	1.000000	1.72640e-12	1.000000
rad5	1.51097e-13	1.000000	9.30597e-13	1.000000
rad27	8.54876e-14	1.000000	5.26512e-13	1.000000

10.000000 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.47590e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866427	0.866427	0.00000	0.00000
Indene+H	0.0943832	0.960810	0.706603	0.706603
PhCH2CCH+H	0.0189359	0.979746	0.141764	0.848367
Ph+Allene	0.0101116	0.989858	0.0757009	0.924068
PhCHCCH2+H	0.00579093	0.995649	0.0433540	0.967422
PAH9+H	0.000765649	0.996414	0.00573206	0.973154
PhCCH+CH3	0.000549914	0.996964	0.00411695	0.977271
PAH3+H	0.000526268	0.997490	0.00393993	0.981211
rad19anti	0.000486585	0.997977	0.00364283	0.984854
rad38	0.000411823	0.998389	0.00308313	0.987937
rad30	0.000378290	0.998767	0.00283209	0.990769
PAH7+H	0.000350637	0.999118	0.00262506	0.993394
Ph+MeAc	0.000164723	0.999283	0.00123320	0.994627
rad35	0.000155560	0.999438	0.00116461	0.995792
rad46	0.000120241	0.999558	0.000900192	0.996692
rad50	9.62583e-05	0.999655	0.000720642	0.997413
rad39	7.90419e-05	0.999734	0.000591750	0.998004
rad59	4.92041e-05	0.999783	0.000368368	0.998373
rad60syn	4.01116e-05	0.999823	0.000300297	0.998673
PhCCCH3+H	3.61053e-05	0.999859	0.000270304	0.998943
rad51	2.96187e-05	0.999889	0.000221742	0.999165

rad60anti	2.75045e-05	0.999916	0.000205913	0.999371
rad67	2.43994e-05	0.999941	0.000182667	0.999554
rad19syn	1.17432e-05	0.999952	8.79161e-05	0.999642
rad52	8.90491e-06	0.999961	6.66670e-05	0.999708
PAH10+CH3	7.74393e-06	0.999969	5.79752e-05	0.999766
PhcycC3H3_A+H	7.51232e-06	0.999976	5.62412e-05	0.999822
rad58	5.03750e-06	0.999982	3.77135e-05	0.999860
rad54	4.35998e-06	0.999986	3.26412e-05	0.999893
rad37	3.43824e-06	0.999989	2.57405e-05	0.999919
PAH1+H	2.77544e-06	0.999992	2.07784e-05	0.999939
rad70	2.09640e-06	0.999994	1.56948e-05	0.999955
rad71	1.35588e-06	0.999996	1.01508e-05	0.999965
rad6	1.04065e-06	0.999997	7.79089e-06	0.999973
rad73	8.34021e-07	0.999997	6.24393e-06	0.999979
rad65	8.26279e-07	0.999998	6.18597e-06	0.999985
rad34	5.53605e-07	0.999999	4.14459e-06	0.999990
rad55	3.54770e-07	0.999999	2.65600e-06	0.999992
rad23	2.43446e-07	0.999999	1.82256e-06	0.999994
PAH8+H	1.18785e-07	1.000000	8.89289e-07	0.999995
rad53	9.86481e-08	1.000000	7.38533e-07	0.999996
rad72	9.74442e-08	1.000000	7.29519e-07	0.999996
rad56	9.44380e-08	1.000000	7.07014e-07	0.999997
rad62	6.06776e-08	1.000000	4.54265e-07	0.999998
rad64	5.65618e-08	1.000000	4.23452e-07	0.999998
rad68syn	4.15584e-08	1.000000	3.11129e-07	0.999998
rad68anti	2.68085e-08	1.000000	2.00703e-07	0.999999
rad43	2.20616e-08	1.000000	1.65165e-07	0.999999
rad45	1.72650e-08	1.000000	1.29255e-07	0.999999
rad22	1.69956e-08	1.000000	1.27238e-07	0.999999
rad61	1.55737e-08	1.000000	1.16593e-07	0.999999
rad40syn	1.47127e-08	1.000000	1.10147e-07	0.999999
rad40anti	9.32167e-09	1.000000	6.97870e-08	0.999999
rad9	7.18734e-09	1.000000	5.38083e-08	0.999999
rad11	5.40954e-09	1.000000	4.04987e-08	0.999999
rad20	5.31738e-09	1.000000	3.98087e-08	0.999999
rad42	5.08228e-09	1.000000	3.80486e-08	0.999999
rad7	4.21766e-09	1.000000	3.15757e-08	0.999999
rad28	3.62543e-09	1.000000	2.71419e-08	0.999999
rad36	2.98330e-09	1.000000	2.23346e-08	0.999999
rad21	2.73447e-09	1.000000	2.04717e-08	0.999999
rad41	2.00270e-09	1.000000	1.49933e-08	0.999999
rad18	1.64692e-09	1.000000	1.23297e-08	0.999999
rad15	3.70411e-10	1.000000	2.77309e-09	0.999999
rad13	3.11984e-10	1.000000	2.33568e-09	0.999999
rad24	9.49263e-11	1.000000	7.10669e-10	0.999999
rad26	6.73296e-11	1.000000	5.04066e-10	0.999999
rad12	3.72943e-11	1.000000	2.79205e-10	0.999999
rad10	2.42222e-11	1.000000	1.81341e-10	0.999999
rad8	2.00292e-11	1.000000	1.49949e-10	0.999999
rad33	1.02101e-11	1.000000	7.64382e-11	0.999999
rad2	1.00197e-11	1.000000	7.50132e-11	0.999999
rad25	5.51691e-12	1.000000	4.13025e-11	0.999999
rad1	2.63954e-12	1.000000	1.97610e-11	0.999999
rad3	1.45671e-12	1.000000	1.09057e-11	0.999999
rad4	9.28811e-13	1.000000	6.95358e-12	0.999999
rad47	6.83921e-13	1.000000	5.12020e-12	0.999999
rad5	2.01836e-13	1.000000	1.51105e-12	0.999999
rad14	1.43426e-13	1.000000	1.07377e-12	0.999999
rad27	2.34123e-14	1.000000	1.75277e-13	0.999999

10.000000 Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	4.00878e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.878203	0.878203	0.00000	0.00000
Indene+H	0.0702987	0.948502	0.577181	0.577181
PhCH2CCH+H	0.0277459	0.976248	0.227805	0.804986
Ph+Allene	0.0105979	0.986846	0.0870130	0.891999
PhCHCCH2+H	0.00765660	0.994502	0.0628638	0.954863
PAH9+H	0.000942023	0.995444	0.00773439	0.962597
PAH3+H	0.000857246	0.996301	0.00703834	0.969636
rad19anti	0.000629215	0.996931	0.00516611	0.974802
rad38	0.000525622	0.997456	0.00431557	0.979117
PAH7+H	0.000454593	0.997911	0.00373239	0.982850
rad30	0.000417263	0.998328	0.00342590	0.986276
PhCCH+CH3	0.000383620	0.998712	0.00314968	0.989425

rad35	0.000200883	0.998913	0.00164933	0.991075
Ph+MeAc	0.000197881	0.999110	0.00162469	0.992699
rad50	0.000171110	0.999282	0.00140488	0.994104
rad46	0.000166588	0.999448	0.00136776	0.995472
rad39	0.000118942	0.999567	0.000976559	0.996448
rad59	7.57697e-05	0.999643	0.000622100	0.997070
rad51	6.24070e-05	0.999705	0.000512387	0.997583
rad60syn	5.44512e-05	0.999760	0.000447067	0.998030
PhCCCH3+H	5.15876e-05	0.999811	0.000423555	0.998454
rad67	4.61802e-05	0.999857	0.000379158	0.998833
rad60anti	3.79867e-05	0.999895	0.000311886	0.999145
PAH10+CH3	1.71997e-05	0.999913	0.000141217	0.999286
rad52	1.71081e-05	0.999930	0.000140464	0.999426
rad19syn	1.64020e-05	0.999946	0.000134667	0.999561
PhcycC3H3_A+H	1.10468e-05	0.999957	9.06983e-05	0.999652
rad58	1.00662e-05	0.999967	8.26478e-05	0.999734
PAH1+H	5.97755e-06	0.999973	4.90781e-05	0.999783
rad37	5.72400e-06	0.999979	4.69963e-05	0.999830
rad54	5.40010e-06	0.999984	4.43371e-05	0.999875
rad71	4.07400e-06	0.999988	3.34492e-05	0.999908
rad70	3.69513e-06	0.999992	3.03386e-05	0.999938
rad73	2.45141e-06	0.999995	2.01271e-05	0.999959
rad65	1.68879e-06	0.999996	1.38656e-05	0.999972
rad34	1.08421e-06	0.999997	8.90183e-06	0.999981
rad55	4.74441e-07	0.999998	3.89535e-06	0.999985
PAH8+H	3.93689e-07	0.999998	3.23235e-06	0.999988
rad72	2.31604e-07	0.999998	1.90157e-06	0.999990
rad56	1.86924e-07	0.999999	1.53472e-06	0.999992
rad53	1.73618e-07	0.999999	1.42547e-06	0.999993
rad64	1.33918e-07	0.999999	1.09952e-06	0.999994
rad6	1.31124e-07	0.999999	1.07658e-06	0.999996
rad68syn	1.10443e-07	0.999999	9.06782e-07	0.999996
rad62	9.50674e-08	0.999999	7.80542e-07	0.999997
rad68anti	7.09939e-08	0.999999	5.82888e-07	0.999998
rad23	5.81496e-08	0.999999	4.77432e-07	0.999998
rad43	4.82539e-08	0.999999	3.96184e-07	0.999999
rad61	4.63175e-08	1.000000	3.80286e-07	0.999999
rad40syn	4.44486e-08	1.000000	3.64941e-07	0.999999
rad40anti	2.92726e-08	1.000000	2.40340e-07	1.000000
rad42	1.00962e-08	1.000000	8.28937e-08	1.000000
rad45	6.66299e-09	1.000000	5.47059e-08	1.000000
rad41	5.35586e-09	1.000000	4.39738e-08	1.000000
rad22	4.27119e-09	1.000000	3.50682e-08	1.000000
rad9	3.73272e-09	1.000000	3.06471e-08	1.000000
rad20	2.61593e-09	1.000000	2.14778e-08	1.000000
rad11	1.64924e-09	1.000000	1.35409e-08	1.000000
rad21	1.30567e-09	1.000000	1.07200e-08	1.000000
rad36	1.17846e-09	1.000000	9.67567e-09	1.000000
rad7	9.55478e-10	1.000000	7.84486e-09	1.000000
rad18	6.25414e-10	1.000000	5.13490e-09	1.000000
rad28	5.37152e-10	1.000000	4.41024e-09	1.000000
rad15	2.14795e-10	1.000000	1.76355e-09	1.000000
rad13	8.56802e-11	1.000000	7.03469e-10	1.000000
rad24	5.69982e-11	1.000000	4.67978e-10	1.000000
rad12	3.05359e-11	1.000000	2.50712e-10	1.000000
rad26	2.35883e-11	1.000000	1.93670e-10	1.000000
rad8	2.16927e-11	1.000000	1.78106e-10	1.000000
rad10	7.47344e-12	1.000000	6.13600e-11	1.000000
rad33	3.63161e-12	1.000000	2.98170e-11	1.000000
rad25	2.85050e-12	1.000000	2.34038e-11	1.000000
rad2	1.66647e-12	1.000000	1.36824e-11	1.000000
rad47	1.41793e-12	1.000000	1.16418e-11	1.000000
rad1	4.74779e-13	1.000000	3.89813e-12	1.000000
rad3	3.23785e-13	1.000000	2.65841e-12	1.000000
rad5	2.16828e-13	1.000000	1.78025e-12	1.000000
rad4	2.05713e-13	1.000000	1.68899e-12	1.000000
rad14	5.35257e-14	1.000000	4.39468e-13	1.000000
rad27	1.32955e-14	1.000000	1.09162e-13	1.000000

10.000000 Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	5.32896e-13 (1.00)	6.40311e-14 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.879843	0.879843	0.00000	0.00000
Indene+H	0.0541633	0.934006	0.450772	0.450772
PhCH2CCH+H	0.0379681	0.971974	0.315988	0.766760

Ph+Allene	0.0112445	0.983219	0.0935817	0.860342
PhCHCCH2+H	0.00999488	0.993214	0.0831820	0.943524
PAH3+H	0.00124357	0.994457	0.0103495	0.953873
PAH9+H	0.00106550	0.995523	0.00886763	0.962741
rad19anti	0.000731021	0.996254	0.00608389	0.968825
rad38	0.000614427	0.996868	0.00511355	0.973938
PAH7+H	0.000586853	0.997455	0.00488406	0.978822
rad30	0.000442204	0.997897	0.00368022	0.982503
PhCCH+CH3	0.000309118	0.998206	0.00257263	0.985075
rad50	0.000261747	0.998468	0.00217838	0.987254
Ph+MeAc	0.000256974	0.998725	0.00213865	0.989392
rad35	0.000242198	0.998967	0.00201569	0.991408
rad46	0.000207896	0.999175	0.00173020	0.993138
rad39	0.000175829	0.999351	0.00146333	0.994601
rad51	0.000109708	0.999461	0.000913039	0.995514
rad59	0.000104826	0.999566	0.000872407	0.996387
rad67	7.34555e-05	0.999639	0.000611331	0.996998
PhCCCH3+H	7.22809e-05	0.999711	0.000601556	0.997600
rad60syn	6.81858e-05	0.999780	0.000567474	0.998167
rad60anti	4.82378e-05	0.999828	0.000401458	0.998569
PAH10+CH3	3.09025e-05	0.999859	0.000257185	0.998826
rad52	2.78177e-05	0.999887	0.000231512	0.999057
rad19syn	2.34830e-05	0.999910	0.000195437	0.999253
rad58	1.71636e-05	0.999927	0.000142843	0.999396
PhcycC3H3_A+H	1.49485e-05	0.999942	0.000124408	0.999520
PAH1+H	1.13058e-05	0.999953	9.40925e-05	0.999614
rad71	1.09143e-05	0.999964	9.08340e-05	0.999705
rad37	8.12882e-06	0.999972	6.76518e-05	0.999773
rad54	6.28068e-06	0.999979	5.22707e-05	0.999825
rad73	5.97340e-06	0.999985	4.97134e-05	0.999875
rad70	5.97145e-06	0.999991	4.96971e-05	0.999924
rad65	2.87752e-06	0.999994	2.39480e-05	0.999948
rad34	1.90646e-06	0.999995	1.58664e-05	0.999964
PAH8+H	1.06599e-06	0.999997	8.87168e-06	0.999973
rad72	7.24745e-07	0.999997	6.03167e-06	0.999979
rad55	5.87635e-07	0.999998	4.89057e-06	0.999984
rad56	3.22057e-07	0.999998	2.68031e-06	0.999987
rad64	2.70979e-07	0.999998	2.25522e-06	0.999989
rad53	2.70924e-07	0.999999	2.25475e-06	0.999991
rad68syn	2.47581e-07	0.999999	2.06048e-06	0.999993
rad68anti	1.58732e-07	0.999999	1.32104e-06	0.999995
rad62	1.55224e-07	0.999999	1.29185e-06	0.999996
rad40syn	1.10788e-07	0.999999	9.22028e-07	0.999997
rad61	1.05709e-07	1.000000	8.79757e-07	0.999998
rad43	8.79745e-08	1.000000	7.32165e-07	0.999998
rad40anti	7.53857e-08	1.000000	6.27395e-07	0.999999
rad6	2.40082e-08	1.000000	1.99808e-07	0.999999
rad42	1.97427e-08	1.000000	1.64308e-07	0.999999
rad23	1.73736e-08	1.000000	1.44592e-07	0.999999
rad41	1.13891e-08	1.000000	9.47858e-08	1.000000
rad45	2.89546e-09	1.000000	2.40974e-08	1.000000
rad9	1.98483e-09	1.000000	1.65186e-08	1.000000
rad22	1.46084e-09	1.000000	1.21578e-08	1.000000
rad20	1.44492e-09	1.000000	1.20253e-08	1.000000
rad21	6.97931e-10	1.000000	5.80850e-09	1.000000
rad11	6.34562e-10	1.000000	5.28112e-09	1.000000
rad36	5.21986e-10	1.000000	4.34421e-09	1.000000
rad18	2.81400e-10	1.000000	2.34194e-09	1.000000
rad7	2.68930e-10	1.000000	2.23816e-09	1.000000
rad15	1.27520e-10	1.000000	1.06128e-09	1.000000
rad28	1.26837e-10	1.000000	1.05559e-09	1.000000
rad24	3.60415e-11	1.000000	2.99954e-10	1.000000
rad13	2.75521e-11	1.000000	2.29301e-10	1.000000
rad12	2.40055e-11	1.000000	1.99785e-10	1.000000
rad8	2.25333e-11	1.000000	1.87533e-10	1.000000
rad26	1.30032e-11	1.000000	1.08219e-10	1.000000
rad10	4.16144e-12	1.000000	3.46335e-11	1.000000
rad47	2.44733e-12	1.000000	2.03678e-11	1.000000
rad25	1.71572e-12	1.000000	1.42790e-11	1.000000
rad33	1.46749e-12	1.000000	1.22131e-11	1.000000
rad2	5.24085e-13	1.000000	4.36168e-12	1.000000
rad5	2.22902e-13	1.000000	1.85509e-12	1.000000
rad1	1.69796e-13	1.000000	1.41312e-12	1.000000
rad3	8.91272e-14	1.000000	7.41758e-13	1.000000
rad4	5.58020e-14	1.000000	4.64410e-13	1.000000
rad14	2.69488e-14	1.000000	2.24280e-13	1.000000
rad27	1.07856e-14	1.000000	8.97627e-14	1.000000

10.000000 Pa, 2750.00000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	8.05113e-13	(1.00)	1.00487e-13	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.875189	0.875189	0.00000	0.00000
PhCH2CCH+H	0.0492371	0.924426	0.394492	0.394492
Indene+H	0.0427169	0.967143	0.342252	0.736744
PhCHCCH2+H	0.0126523	0.979795	0.101371	0.838115
Ph+Allene	0.0121360	0.991931	0.0972348	0.935350
PAH3+H	0.00165412	0.993585	0.0132530	0.948603
PAH9+H	0.00112926	0.994715	0.00904775	0.957651
rad19anti	0.000790040	0.995505	0.00632988	0.963980
PAH7+H	0.000729348	0.996234	0.00584360	0.969824
rad38	0.000670533	0.996905	0.00537237	0.975196
rad30	0.000454283	0.997359	0.00363976	0.978836
rad50	0.000356852	0.997716	0.00285913	0.981695
Ph+MeAc	0.000331298	0.998047	0.00265439	0.984350
PhCCH+CH3	0.000293337	0.998340	0.00235024	0.986700
rad35	0.000276888	0.998617	0.00221845	0.988918
rad39	0.000242715	0.998860	0.00194466	0.990863
rad46	0.000239383	0.999099	0.00191796	0.992781
rad51	0.000167579	0.999267	0.00134266	0.994124
rad59	0.000133898	0.999401	0.00107280	0.995196
rad67	0.000103303	0.999504	0.000827676	0.996024
PhCCCH3+H	9.47598e-05	0.999599	0.000759224	0.996783
rad60syn	8.03400e-05	0.999679	0.000643692	0.997427
rad60anti	5.74980e-05	0.999737	0.000460680	0.997888
PAH10+CH3	4.75551e-05	0.999784	0.000381016	0.998269
rad52	3.98009e-05	0.999824	0.000318889	0.998588
rad19syn	3.43486e-05	0.999858	0.000275204	0.998863
rad58	2.60272e-05	0.999884	0.000208532	0.999071
rad71	2.39363e-05	0.999908	0.000191780	0.999263
PhcycC3H3_A+H	1.91136e-05	0.999928	0.000153140	0.999416
PAH1+H	1.89331e-05	0.999946	0.000151694	0.999568
rad73	1.20039e-05	0.999958	9.61765e-05	0.999664
rad37	1.02458e-05	0.999969	8.20904e-05	0.999746
rad70	8.97477e-06	0.999978	7.19067e-05	0.999818
rad54	7.04867e-06	0.999985	5.64746e-05	0.999875
rad65	4.27424e-06	0.999989	3.42456e-05	0.999909
rad34	3.06734e-06	0.999992	2.45758e-05	0.999933
PAH8+H	2.42543e-06	0.999994	1.94328e-05	0.999953
rad72	1.88488e-06	0.999996	1.51019e-05	0.999968
rad55	6.94554e-07	0.999997	5.56484e-06	0.999974
rad56	5.00356e-07	0.999998	4.00890e-06	0.999978
rad68syn	4.83494e-07	0.999998	3.87380e-06	0.999981
rad64	4.76954e-07	0.999999	3.82140e-06	0.999985
rad53	3.88227e-07	0.999999	3.11052e-06	0.999988
rad68anti	3.09383e-07	0.999999	2.47881e-06	0.999991
rad62	2.47738e-07	0.999999	1.98490e-06	0.999993
rad40syn	2.35516e-07	1.000000	1.88698e-06	0.999995
rad61	1.98425e-07	1.000000	1.58980e-06	0.999996
rad40anti	1.64483e-07	1.000000	1.31786e-06	0.999998
rad43	1.38328e-07	1.000000	1.10830e-06	0.999999
rad42	3.59442e-08	1.000000	2.87988e-07	0.999999
rad41	2.03347e-08	1.000000	1.62923e-07	0.999999
rad23	6.44152e-09	1.000000	5.16101e-08	0.999999
rad6	5.70432e-09	1.000000	4.57036e-08	0.999999
rad45	1.37767e-09	1.000000	1.10380e-08	0.999999
rad9	1.08542e-09	1.000000	8.69647e-09	0.999999
rad20	8.72008e-10	1.000000	6.98661e-09	0.999999
rad22	6.06717e-10	1.000000	4.86107e-09	0.999999
rad21	4.06776e-10	1.000000	3.25913e-09	0.999999
rad11	2.96012e-10	1.000000	2.37168e-09	0.999999
rad36	2.52262e-10	1.000000	2.02114e-09	0.999999
rad18	1.42005e-10	1.000000	1.13776e-09	0.999999
rad7	9.02340e-11	1.000000	7.22963e-10	0.999999
rad15	7.68459e-11	1.000000	6.15697e-10	0.999999
rad28	4.56054e-11	1.000000	3.65395e-10	0.999999
rad24	2.36700e-11	1.000000	1.89647e-10	0.999999
rad8	2.27111e-11	1.000000	1.81963e-10	0.999999
rad12	1.84646e-11	1.000000	1.47940e-10	0.999999
rad13	1.03424e-11	1.000000	8.28639e-11	0.999999
rad26	8.03145e-12	1.000000	6.43488e-11	0.999999
rad47	3.66036e-12	1.000000	2.93272e-11	0.999999
rad10	2.73303e-12	1.000000	2.18973e-11	0.999999
rad25	1.16527e-12	1.000000	9.33628e-12	0.999999
rad33	6.71643e-13	1.000000	5.38127e-12	0.999999
rad2	2.62303e-13	1.000000	2.10160e-12	0.999999

rad5	2.21377e-13	1.00000	1.77369e-12	0.999999
rad1	9.72359e-14	1.00000	7.79063e-13	0.999999
rad3	3.02922e-14	1.00000	2.42704e-13	0.999999
rad4	1.85087e-14	1.00000	1.48293e-13	0.999999
rad14	1.78517e-14	1.00000	1.43030e-13	0.999999
rad27	9.35917e-15	1.00000	7.49866e-14	0.999999

10.000000 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15309e-12 (1.00)	1.53862e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866566	0.866566	0.00000	0.00000
PhCH2CCH+H	0.0611725	0.927738	0.458447	0.458447
Indene+H	0.0342671	0.962006	0.256809	0.715256
PhCHCCH2+H	0.0154790	0.977485	0.116005	0.831261
Ph+Allene	0.0132660	0.990751	0.0994201	0.930681
PAH3+H	0.00205938	0.992810	0.0154337	0.946115
PAH9+H	0.00113813	0.993948	0.00852953	0.954644
PAH7+H	0.000866141	0.994814	0.00649115	0.961135
rad19anti	0.000812997	0.995627	0.00609286	0.967228
rad38	0.000693218	0.996320	0.00519520	0.972424
rad30	0.000455427	0.996776	0.00341312	0.975837
rad50	0.000445160	0.997221	0.00333618	0.979173
Ph+MeAc	0.000411378	0.997632	0.00308300	0.982256
PhCCH+CH3	0.000319072	0.997952	0.00239123	0.984647
rad39	0.000311363	0.998263	0.00233346	0.986981
rad35	0.000303822	0.998567	0.00227694	0.989257
rad46	0.000258931	0.998826	0.00194052	0.991198
rad51	0.000229674	0.999055	0.00172125	0.992919
rad59	0.000160966	0.999216	0.00120633	0.994126
rad67	0.000132859	0.999349	0.000995687	0.995121
PhCCCH3+H	0.000117527	0.999467	0.000880786	0.996002
rad60syn	9.03378e-05	0.999557	0.000677021	0.996679
PAH10+CH3	6.53527e-05	0.999622	0.000489774	0.997169
rad60anti	6.52879e-05	0.999688	0.000489289	0.997658
rad52	5.16018e-05	0.999739	0.000386721	0.998045
rad19syn	5.01058e-05	0.999789	0.000375509	0.998420
rad71	4.45280e-05	0.999834	0.000333707	0.998754
rad58	3.61220e-05	0.999870	0.000270710	0.999025
PAH1+H	2.86280e-05	0.999899	0.000214547	0.999239
PhcycC3H3_A+H	2.34373e-05	0.999922	0.000175647	0.999415
rad73	2.07117e-05	0.999943	0.000155221	0.999570
rad70	1.26565e-05	0.999955	9.48517e-05	0.999665
rad37	1.18404e-05	0.999967	8.87361e-05	0.999754
rad54	7.74187e-06	0.999975	5.80201e-05	0.999812
rad65	5.71906e-06	0.999981	4.28605e-05	0.999855
PAH8+H	4.80171e-06	0.999986	3.59856e-05	0.999891
rad34	4.57474e-06	0.999990	3.42846e-05	0.999925
rad72	4.06140e-06	0.999994	3.04375e-05	0.999955
rad68syn	8.44320e-07	0.999995	6.32761e-06	0.999962
rad55	7.96400e-07	0.999996	5.96848e-06	0.999968
rad64	7.49041e-07	0.999997	5.61356e-06	0.999973
rad56	7.20466e-07	0.999997	5.39941e-06	0.999979
rad68anti	5.39474e-07	0.999998	4.04300e-06	0.999983
rad53	5.23152e-07	0.999998	3.92067e-06	0.999987
rad40syn	4.40720e-07	0.999999	3.30290e-06	0.999990
rad62	3.72795e-07	0.999999	2.79385e-06	0.999993
rad61	3.22484e-07	0.999999	2.41680e-06	0.999995
rad40anti	3.14368e-07	1.000000	2.35598e-06	0.999998
rad43	1.94897e-07	1.000000	1.46062e-06	0.999999
rad42	5.98173e-08	1.000000	4.48291e-07	0.999999
rad41	3.19487e-08	1.000000	2.39434e-07	1.000000
rad23	2.71886e-09	1.000000	2.03760e-08	1.000000
rad6	1.66033e-09	1.000000	1.24430e-08	1.000000
rad45	7.02739e-10	1.000000	5.26656e-09	1.000000
rad9	6.12716e-10	1.000000	4.59190e-09	1.000000
rad20	5.63899e-10	1.000000	4.22604e-09	1.000000
rad22	2.86706e-10	1.000000	2.14867e-09	1.000000
rad21	2.53641e-10	1.000000	1.90087e-09	1.000000
rad11	1.61480e-10	1.000000	1.21019e-09	1.000000
rad36	1.30310e-10	1.000000	9.76588e-10	1.000000
rad18	7.80463e-11	1.000000	5.84904e-10	1.000000
rad15	4.71797e-11	1.000000	3.53580e-10	1.000000
rad7	3.54513e-11	1.000000	2.65683e-10	1.000000
rad8	2.23591e-11	1.000000	1.67567e-10	1.000000
rad28	2.14485e-11	1.000000	1.60742e-10	1.000000

rad24	1.60029e-11	1.00000	1.19931e-10	1.000000
rad12	1.40788e-11	1.00000	1.05511e-10	1.000000
rad26	5.10414e-12	1.00000	3.82521e-11	1.000000
rad47	4.90460e-12	1.00000	3.67567e-11	1.000000
rad13	4.49143e-12	1.00000	3.36603e-11	1.000000
rad10	1.85252e-12	1.00000	1.38834e-11	1.000000
rad25	8.61863e-13	1.00000	6.45908e-12	1.000000
rad33	3.44471e-13	1.00000	2.58158e-12	1.000000
rad5	2.14696e-13	1.00000	1.60900e-12	1.000000
rad2	1.59062e-13	1.00000	1.19206e-12	1.000000
rad1	6.65753e-14	1.00000	4.98937e-13	1.000000
rad14	1.40994e-14	1.00000	1.05666e-13	1.000000
rad3	1.24932e-14	1.00000	9.36280e-14	1.000000
rad27	8.05055e-15	1.00000	6.03335e-14	1.000000
rad4	7.41471e-15	1.00000	5.55683e-14	1.000000

10.0000000 Pa, 3250.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.58309e-12 (1.00)		2.28795e-13 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.855476	0.855476	0.00000	0.00000
PhCH2CCH+H	0.0734301	0.928906	0.508082	0.508082
Indene+H	0.0278643	0.956770	0.192800	0.700882
PhCHCCH2+H	0.0183610	0.975131	0.127045	0.827927
Ph+Allene	0.0145940	0.989725	0.100980	0.928907
PAH3+H	0.00243645	0.992162	0.0168585	0.945765
PAH9+H	0.00110340	0.993265	0.00763468	0.953400
PAH7+H	0.000986573	0.994252	0.00682636	0.960227
rad19anti	0.000808911	0.995061	0.00559706	0.965824
rad38	0.000686670	0.995747	0.00475125	0.970575
rad50	0.000518185	0.996266	0.00358546	0.974160
Ph+MeAc	0.000489465	0.996755	0.00338674	0.977547
rad30	0.000447972	0.997203	0.00309964	0.980647
PhCCH+CH3	0.000378211	0.997581	0.00261694	0.983264
rad39	0.000374440	0.997956	0.00259085	0.985854
rad35	0.000323023	0.998279	0.00223508	0.988090
rad51	0.000289251	0.998568	0.00200140	0.990091
rad46	0.000266714	0.998835	0.00184547	0.991936
rad59	0.000184695	0.999019	0.00127795	0.993214
rad67	0.000159865	0.999179	0.00110615	0.994321
PhCCCH3+H	0.000140367	0.999320	0.000971235	0.995292
rad60syn	9.79791e-05	0.999418	0.000677943	0.995970
PAH10+CH3	8.26144e-05	0.999500	0.000571631	0.996541
rad71	7.28137e-05	0.999573	0.000503817	0.997045
rad60anti	7.14060e-05	0.999644	0.000494077	0.997539
rad19syn	7.13407e-05	0.999716	0.000493625	0.998033
rad52	6.19542e-05	0.999778	0.000428677	0.998462
rad58	4.68389e-05	0.999825	0.000324090	0.998786
PAH1+H	3.98749e-05	0.999864	0.000275905	0.999062
rad73	3.17369e-05	0.999896	0.000219596	0.999281
PhcycC3H3_A+H	2.77968e-05	0.999924	0.000192333	0.999473
rad70	1.68825e-05	0.999941	0.000116815	0.999590
rad37	1.28498e-05	0.999954	8.89115e-05	0.999679
PAH8+H	8.50466e-06	0.999962	5.88460e-05	0.999738
rad54	8.38236e-06	0.999971	5.79998e-05	0.999796
rad72	7.52774e-06	0.999978	5.20864e-05	0.999848
rad65	7.06087e-06	0.999985	4.88560e-05	0.999897
rad34	6.39570e-06	0.999992	4.42535e-05	0.999941
rad68syn	1.34607e-06	0.999993	9.31381e-06	0.999951
rad64	1.07439e-06	0.999994	7.43398e-06	0.999958
rad56	9.79696e-07	0.999995	6.77877e-06	0.999965
rad55	8.94000e-07	0.999996	6.18582e-06	0.999971
rad68anti	8.59064e-07	0.999997	5.94409e-06	0.999977
rad40syn	7.44334e-07	0.999997	5.15024e-06	0.999982
rad53	6.73268e-07	0.999998	4.65852e-06	0.999987
rad40anti	5.40363e-07	0.999999	3.73891e-06	0.999990
rad62	5.25225e-07	0.999999	3.63417e-06	0.999994
rad61	4.70540e-07	1.000000	3.25579e-06	0.999997
rad43	2.53715e-07	1.000000	1.75552e-06	0.999999
rad42	9.14471e-08	1.00000	6.32746e-07	1.000000
rad41	4.57452e-08	1.00000	3.16523e-07	1.00000
rad23	1.25426e-09	1.00000	8.67856e-09	1.00000
rad6	5.78137e-10	1.00000	4.00028e-09	1.00000
rad20	3.85208e-10	1.00000	2.66536e-09	1.00000
rad45	3.78508e-10	1.00000	2.61899e-09	1.00000
rad9	3.57794e-10	1.00000	2.47567e-09	1.00000

rad21	1.66884e-10	1.00000	1.15471e-09	1.00000
rad22	1.49413e-10	1.00000	1.03383e-09	1.00000
rad11	9.93935e-11	1.00000	6.87730e-10	1.00000
rad36	7.08994e-11	1.00000	4.90572e-10	1.00000
rad18	4.58209e-11	1.00000	3.17047e-10	1.00000
rad15	2.96137e-11	1.00000	2.04905e-10	1.00000
rad8	2.15871e-11	1.00000	1.49367e-10	1.00000
rad7	1.59951e-11	1.00000	1.10674e-10	1.00000
rad28	1.17765e-11	1.00000	8.14848e-11	1.00000
rad24	1.10779e-11	1.00000	7.66507e-11	1.00000
rad12	1.07286e-11	1.00000	7.42343e-11	1.00000
rad47	6.03556e-12	1.00000	4.17616e-11	1.00000
rad26	3.28782e-12	1.00000	2.27493e-11	1.00000
rad13	2.21971e-12	1.00000	1.53588e-11	1.00000
rad10	1.26513e-12	1.00000	8.75375e-12	1.00000
rad25	6.73806e-13	1.00000	4.66224e-12	1.00000
rad5	2.06036e-13	1.00000	1.42562e-12	1.00000
rad33	1.94988e-13	1.00000	1.34917e-12	1.00000
rad2	1.03754e-13	1.00000	7.17904e-13	1.00000
rad1	4.84074e-14	1.00000	3.34943e-13	1.00000
rad14	1.20856e-14	1.00000	8.36231e-14	1.00000
rad27	6.81496e-15	1.00000	4.71545e-14	1.00000
rad3	6.06555e-15	1.00000	4.19691e-14	1.00000
rad4	3.50329e-15	1.00000	2.42402e-14	1.00000

10.000000 Pa, 3500.00000 K

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

Total | 2.10046e-12 (1.00) | 3.29923e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.842928	0.842928	0.00000	0.00000
PhCH2CCH+H	0.0857241	0.928652	0.545762	0.545762
Indene+H	0.0229287	0.951581	0.145976	0.691738
PhCHCCH2+H	0.0212218	0.972803	0.135108	0.826846
Ph+Allene	0.0160719	0.988874	0.102322	0.929168
PAH3+H	0.00277080	0.991645	0.0176403	0.946808
PAH7+H	0.00108547	0.992731	0.00691065	0.953719
PAH9+H	0.00103824	0.993769	0.00660997	0.960329
rad19anti	0.000786012	0.994555	0.00500415	0.965333
rad38	0.000657574	0.995213	0.00418645	0.969520
rad50	0.000571325	0.995784	0.00363734	0.973157
Ph+MeAc	0.000559758	0.996344	0.00356370	0.976721
PhCCH+CH3	0.000466753	0.996810	0.00297158	0.979692
rad30	0.000434295	0.997245	0.00276494	0.982457
rad39	0.000426790	0.997672	0.00271716	0.985174
rad51	0.000340825	0.998012	0.00216986	0.987344
rad35	0.000335221	0.998348	0.00213418	0.989478
rad46	0.000264413	0.998612	0.00168339	0.991162
rad59	0.000204435	0.998816	0.00130154	0.992463
rad67	0.000182834	0.998999	0.00116401	0.993627
PhCCCH3+H	0.000163685	0.999163	0.00104210	0.994669
rad71	0.000107604	0.999271	0.000685063	0.995354
rad60syn	0.000103349	0.999374	0.000657969	0.996012
PAH10+CH3	9.81182e-05	0.999472	0.000624670	0.996637
rad19syn	9.79725e-05	0.999570	0.000623742	0.997261
rad60anti	7.58697e-05	0.999646	0.000483025	0.997744
rad52	7.00221e-05	0.999716	0.000445796	0.998190
rad58	5.76196e-05	0.999773	0.000366835	0.998556
PAH1+H	5.20525e-05	0.999826	0.000331392	0.998888
rad73	4.43117e-05	0.999870	0.000282110	0.999170
PhcycC3H3_A+H	3.20633e-05	0.999902	0.000204131	0.999374
rad70	2.14709e-05	0.999923	0.000136694	0.999511
PAH8+H	1.37726e-05	0.999937	8.76830e-05	0.999598
rad37	1.33235e-05	0.999950	8.48242e-05	0.999683
rad72	1.23930e-05	0.999963	7.89002e-05	0.999762
rad54	8.98058e-06	0.999972	5.71749e-05	0.999819
rad34	8.46719e-06	0.999980	5.39064e-05	0.999873
rad65	8.19021e-06	0.999989	5.21430e-05	0.999925
rad68syn	1.99232e-06	0.999991	1.26841e-05	0.999938
rad64	1.43497e-06	0.999992	9.13572e-06	0.999947
rad56	1.27413e-06	0.999993	8.11173e-06	0.999955
rad68anti	1.27030e-06	0.999994	8.08738e-06	0.999963
rad40syn	1.15717e-06	0.999996	7.36710e-06	0.999971
rad55	9.87614e-07	0.999997	6.28765e-06	0.999977
rad40anti	8.52744e-07	0.999997	5.42900e-06	0.999982
rad53	8.35967e-07	0.999998	5.32219e-06	0.999988
rad62	6.97363e-07	0.999999	4.43976e-06	0.999992

rad61	6.32570e-07	1.000000	4.02726e-06	0.999996
rad43	3.12012e-07	1.000000	1.98643e-06	0.999998
rad42	1.30123e-07	1.000000	8.28428e-07	0.999999
rad41	6.11801e-08	1.000000	3.89503e-07	0.999999
rad23	6.19632e-10	1.000000	3.94489e-09	0.999999
rad20	2.75049e-10	1.000000	1.75110e-09	0.999999
rad6	2.36193e-10	1.000000	1.50372e-09	0.999999
rad9	2.16215e-10	1.000000	1.37653e-09	0.999999
rad45	2.12974e-10	1.000000	1.35590e-09	0.999999
rad21	1.14699e-10	1.000000	7.30230e-10	0.999999
rad22	8.42443e-11	1.000000	5.36341e-10	0.999999
rad11	6.69444e-11	1.000000	4.26202e-10	0.999999
rad36	4.02090e-11	1.000000	2.55991e-10	0.999999
rad18	2.83524e-11	1.000000	1.80505e-10	0.999999
rad8	2.04913e-11	1.000000	1.30458e-10	0.999999
rad15	1.90323e-11	1.000000	1.21169e-10	0.999999
rad12	8.20894e-12	1.000000	5.22622e-11	0.999999
rad7	8.10505e-12	1.000000	5.16008e-11	0.999999
rad24	7.82707e-12	1.000000	4.98311e-11	0.999999
rad28	7.06306e-12	1.000000	4.49670e-11	0.999999
rad47	6.95001e-12	1.000000	4.42472e-11	0.999999
rad26	2.14585e-12	1.000000	1.36616e-11	0.999999
rad13	1.22301e-12	1.000000	7.78628e-12	0.999999
rad10	8.71233e-13	1.000000	5.54671e-12	0.999999
rad25	5.45450e-13	1.000000	3.47261e-12	0.999999
rad5	1.97180e-13	1.000000	1.25535e-12	0.999999
rad33	1.19852e-13	1.000000	7.63036e-13	0.999999
rad2	7.08107e-14	1.000000	4.50817e-13	0.999999
rad1	3.61383e-14	1.000000	2.30074e-13	0.999999
rad14	1.06725e-14	1.000000	6.79467e-14	0.999999
rad27	5.71484e-15	1.000000	3.63835e-14	0.999999
rad3	3.35156e-15	1.000000	2.13377e-14	0.999999
rad4	1.89591e-15	1.000000	1.20703e-14	0.999999

10.000000 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.70978e-12 (1.00)	4.61708e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829614	0.829614	0.00000	0.00000
PhCH2CCH+H	0.0978316	0.927446	0.574175	0.574175
PhCHCCH2+H	0.0240141	0.951460	0.140939	0.715114
Indene+H	0.0190788	0.970538	0.111974	0.827088
Ph+Allene	0.0176550	0.988193	0.103617	0.930705
PAH3+H	0.00305565	0.991249	0.0179337	0.948639
PAH7+H	0.00116197	0.992411	0.00681959	0.955458
PAH9+H	0.000955041	0.993366	0.00560515	0.961063
rad19anti	0.000750872	0.994117	0.00440688	0.965470
Ph+MeAc	0.000618509	0.994736	0.00363004	0.969100
rad38	0.000613193	0.995349	0.00359884	0.972699
rad50	0.000603635	0.995952	0.00354274	0.976242
PhCCH+CH3	0.000581835	0.996534	0.00341480	0.979657
rad39	0.000465791	0.997000	0.00273373	0.982390
rad30	0.000416539	0.997417	0.00244467	0.984835
rad51	0.000380996	0.997798	0.00223607	0.987071
rad35	0.000341507	0.998139	0.00200431	0.989076
rad46	0.000254425	0.998393	0.00149322	0.990569
rad59	0.000220084	0.998614	0.00129168	0.991860
rad67	0.000201013	0.998815	0.00117975	0.993040
PhCCCH3+H	0.000187990	0.999003	0.00110331	0.994143
rad71	0.000146782	0.999149	0.000861466	0.995005
rad19syn	0.000129261	0.999279	0.000758633	0.995764
PAH10+CH3	0.000111172	0.999390	0.000652468	0.996416
rad60syn	0.000106707	0.999496	0.000626263	0.997042
rad60anti	7.88382e-05	0.999575	0.000462703	0.997505
rad52	7.54522e-05	0.999651	0.000442830	0.997948
rad58	6.80261e-05	0.999719	0.000399246	0.998347
PAH1+H	6.45814e-05	0.999783	0.000379029	0.998726
rad73	5.74883e-05	0.999841	0.000337400	0.999064
PhcycC3H3_A+H	3.61213e-05	0.999877	0.000211996	0.999276
rad70	2.62309e-05	0.999903	0.000153949	0.999429
PAH8+H	2.07420e-05	0.999924	0.000121735	0.999551
rad72	1.85752e-05	0.999943	0.000109018	0.999660
rad37	1.33636e-05	0.999956	7.84313e-05	0.999739
rad34	1.07116e-05	0.999967	6.28665e-05	0.999802
rad54	9.53969e-06	0.999976	5.59886e-05	0.999858
rad65	9.05128e-06	0.999985	5.31221e-05	0.999911

rad68syn	2.77520e-06	0.999988	1.62877e-05	0.999927
rad64	1.81236e-06	0.999990	1.06368e-05	0.999938
rad68anti	1.76807e-06	0.999992	1.03768e-05	0.999948
rad40syn	1.68194e-06	0.999993	9.87131e-06	0.999958
rad56	1.59874e-06	0.999995	9.38302e-06	0.999967
rad40anti	1.25564e-06	0.999996	7.36936e-06	0.999975
rad55	1.07703e-06	0.999997	6.32112e-06	0.999981
rad53	1.00841e-06	0.999998	5.91835e-06	0.999987
rad62	8.81787e-07	0.999999	5.17522e-06	0.999992
rad61	7.98456e-07	1.000000	4.68615e-06	0.999997
rad43	3.67979e-07	1.000000	2.15967e-06	0.999999
rad42	1.74776e-07	1.000000	1.02576e-06	1.000000
rad41	7.77074e-08	1.000000	4.56066e-07	1.000000
rad23	3.23733e-10	1.000000	1.89999e-09	1.000000
rad20	2.03652e-10	1.000000	1.19524e-09	1.000000
rad9	1.35073e-10	1.000000	7.92745e-10	1.000000
rad45	1.24238e-10	1.000000	7.29155e-10	1.000000
rad6	1.10794e-10	1.000000	6.50251e-10	1.000000
rad21	8.17332e-11	1.000000	4.79693e-10	1.000000
rad22	5.06967e-11	1.000000	2.97540e-10	1.000000
rad11	4.81917e-11	1.000000	2.82838e-10	1.000000
rad36	2.35954e-11	1.000000	1.38482e-10	1.000000
rad8	1.91615e-11	1.000000	1.12459e-10	1.000000
rad18	1.83144e-11	1.000000	1.07487e-10	1.000000
rad15	1.25232e-11	1.000000	7.34988e-11	1.000000
rad47	7.59710e-12	1.000000	4.45875e-11	1.000000
rad12	6.32130e-12	1.000000	3.70998e-11	1.000000
rad24	5.63443e-12	1.000000	3.30685e-11	1.000000
rad7	4.51209e-12	1.000000	2.64815e-11	1.000000
rad28	4.47413e-12	1.000000	2.62587e-11	1.000000
rad26	1.42172e-12	1.000000	8.34410e-12	1.000000
rad13	7.35919e-13	1.000000	4.31912e-12	1.000000
rad10	6.08349e-13	1.000000	3.57041e-12	1.000000
rad25	4.51407e-13	1.000000	2.64932e-12	1.000000
rad5	1.88714e-13	1.000000	1.10756e-12	1.000000
rad33	7.88050e-14	1.000000	4.62508e-13	1.000000
rad2	5.05466e-14	1.000000	2.96659e-13	1.000000
rad1	2.74198e-14	1.000000	1.60927e-13	1.000000
rad14	9.50487e-15	1.000000	5.57842e-14	1.000000
rad27	4.78170e-15	1.000000	2.80639e-14	1.000000
rad3	2.04645e-15	1.000000	1.20106e-14	1.000000
rad4	1.14238e-15	1.000000	6.70466e-15	1.000000

10.000000 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28297e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.816017	0.816017	0.000000	0.000000
PhCH2CCH+H	0.109584	0.925601	0.595618	0.595618
PhCHCCH2+H	0.0267098	0.952311	0.145175	0.740793
Ph+Allene	0.0193046	0.971615	0.104926	0.845719
Indene+H	0.0160484	0.987664	0.0872277	0.932947
PAH3+H	0.00329013	0.990954	0.0178828	0.950829
PAH7+H	0.00121791	0.992172	0.00661968	0.957449
PAH9+H	0.000864009	0.993036	0.00469612	0.962145
PhCCH+CH3	0.000720156	0.993756	0.00391424	0.966060
rad19anti	0.000708493	0.994464	0.00385085	0.969910
Ph+MeAc	0.000663934	0.995128	0.00360866	0.973519
rad50	0.000616860	0.995745	0.00335280	0.976872
rad38	0.000560143	0.996305	0.00304453	0.979916
rad39	0.000491035	0.996796	0.00266891	0.982585
rad51	0.000408499	0.997205	0.00222030	0.984806
rad30	0.000396478	0.997601	0.00215497	0.986961
rad35	0.000343096	0.997945	0.00186482	0.988825
rad46	0.000239253	0.998184	0.00130040	0.990126
rad59	0.000231903	0.998416	0.00126046	0.991386
rad67	0.000214260	0.998630	0.00116456	0.992551
PhCCCH3+H	0.000213580	0.998844	0.00116087	0.993712
rad71	0.000187845	0.999031	0.00102099	0.994733
rad19syn	0.000163941	0.999195	0.000891067	0.995624
PAH10+CH3	0.000121536	0.999317	0.000660582	0.996284
rad60syn	0.000108396	0.999425	0.000589161	0.996873
rad60anti	8.05427e-05	0.999506	0.000437772	0.997311
rad52	7.82960e-05	0.999584	0.000425560	0.997737
rad58	7.77572e-05	0.999662	0.000422632	0.998159
PAH1+H	7.70001e-05	0.999739	0.000418517	0.998578

rad73	7.03554e-05	0.999809	0.000382401	0.998960
PhcycC3H3_A+H	3.98814e-05	0.999849	0.000216766	0.999177
rad70	3.09908e-05	0.999880	0.000168444	0.999346
PAH8+H	2.94355e-05	0.999910	0.000159990	0.999506
rad72	2.58286e-05	0.999935	0.000140385	0.999646
rad37	1.30848e-05	0.999948	7.11194e-05	0.999717
rad34	1.30497e-05	0.999961	7.09289e-05	0.999788
rad54	1.00584e-05	0.999972	5.46703e-05	0.999843
rad65	9.63687e-06	0.999981	5.23790e-05	0.999895
rad68syn	3.67778e-06	0.999985	1.99898e-05	0.999915
rad68anti	2.34154e-06	0.999987	1.27269e-05	0.999928
rad40syn	2.31359e-06	0.999990	1.25750e-05	0.999940
rad64	2.19077e-06	0.999992	1.19074e-05	0.999952
rad56	1.94741e-06	0.999994	1.05847e-05	0.999963
rad40anti	1.74691e-06	0.999995	9.49492e-06	0.999972
rad53	1.18744e-06	0.999997	6.45406e-06	0.999979
rad55	1.16170e-06	0.999998	6.31418e-06	0.999985
rad62	1.07271e-06	0.999999	5.83046e-06	0.999991
rad61	9.59661e-07	1.000000	5.21602e-06	0.999996
rad43	4.20278e-07	1.000000	2.28433e-06	0.999998
rad42	2.24298e-07	1.000000	1.21912e-06	1.000000
rad41	9.47630e-08	1.000000	5.15063e-07	1.000000
rad23	1.77339e-10	1.000000	9.63885e-10	1.000000
rad20	1.55419e-10	1.000000	8.44747e-10	1.000000
rad9	8.70678e-11	1.000000	4.73237e-10	1.000000
rad45	7.47380e-11	1.000000	4.06221e-10	1.000000
rad21	6.00468e-11	1.000000	3.26371e-10	1.000000
rad6	5.83565e-11	1.000000	3.17183e-10	1.000000
rad11	3.64552e-11	1.000000	1.98144e-10	1.000000
rad22	3.22290e-11	1.000000	1.75173e-10	1.000000
rad8	1.76826e-11	1.000000	9.61096e-11	1.000000
rad36	1.42527e-11	1.000000	7.74675e-11	1.000000
rad18	1.22665e-11	1.000000	6.66720e-11	1.000000
rad15	8.42806e-12	1.000000	4.58088e-11	1.000000
rad47	7.97229e-12	1.000000	4.33316e-11	1.000000
rad12	4.90415e-12	1.000000	2.66554e-11	1.000000
rad24	4.12852e-12	1.000000	2.24396e-11	1.000000
rad28	2.94502e-12	1.000000	1.60070e-11	1.000000
rad7	2.70724e-12	1.000000	1.47146e-11	1.000000
rad26	9.57717e-13	1.000000	5.20546e-12	1.000000
rad13	4.75006e-13	1.000000	2.58179e-12	1.000000
rad10	4.33098e-13	1.000000	2.35400e-12	1.000000
rad25	3.79147e-13	1.000000	2.06077e-12	1.000000
rad5	1.80626e-13	1.000000	9.81751e-13	1.000000
rad33	5.47295e-14	1.000000	2.97470e-13	1.000000
rad2	3.78830e-14	1.000000	2.05904e-13	1.000000
rad1	2.10635e-14	1.000000	1.14486e-13	1.000000
rad14	8.48178e-15	1.000000	4.61008e-14	1.000000
rad27	4.01212e-15	1.000000	2.18070e-14	1.000000
rad3	1.35024e-15	1.000000	7.33895e-15	1.000000
rad4	7.48385e-16	1.000000	4.06768e-15	1.000000

1.00000000 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.709561	0.709561	0.709562	0.709562
rad22	0.205427	0.914988	0.205427	0.914989
rad23	0.0811499	0.996138	0.0811500	0.996139
rad45	0.00341719	0.999555	0.00341719	0.999556
rad36	0.000212865	0.999768	0.000212865	0.999769
rad11	0.000158733	0.999927	0.000158733	0.999928
rad18	4.43185e-05	0.999971	4.43185e-05	0.999972
rad6	2.18748e-05	0.999993	2.18748e-05	0.999994
rad20	3.57626e-06	0.999996	3.57626e-06	0.999998
rad21	2.20943e-06	0.999999	2.20943e-06	1.000000
Benzyl+C2H2	8.07768e-07	0.999999	0.000000	1.000000
rad7	1.16066e-09	0.999999	1.16066e-09	1.000000
rad24	2.61468e-11	0.999999	2.61468e-11	1.000000
rad13	1.56058e-11	0.999999	1.56058e-11	1.000000
rad33	1.95368e-14	0.999999	1.95368e-14	1.000000
rad3	1.63356e-14	0.999999	1.63356e-14	1.000000
rad4	8.25856e-15	0.999999	8.25856e-15	1.000000
rad35	5.47678e-15	0.999999	5.47678e-15	1.000000
PAH9+H	1.25099e-15	0.999999	1.25099e-15	1.000000
rad2	2.55569e-17	0.999999	2.55569e-17	1.000000

rad38	1.52273e-17	0.999999	1.52273e-17	1.000000
rad30	5.43377e-18	0.999999	5.43377e-18	1.000000
rad1	1.61529e-18	0.999999	1.61529e-18	1.000000
rad25	2.32292e-19	0.999999	2.32292e-19	1.000000
rad10	1.82008e-20	0.999999	1.82008e-20	1.000000
rad28	1.03588e-20	0.999999	1.03588e-20	1.000000
rad15	6.04026e-22	0.999999	6.04027e-22	1.000000
rad31	4.14529e-24	0.999999	4.14529e-24	1.000000
rad14	1.01312e-25	0.999999	1.01313e-25	1.000000
rad46	7.72564e-26	0.999999	7.72565e-26	1.000000
rad27	4.72768e-26	0.999999	4.72768e-26	1.000000
PhCCH+CH3	2.05923e-26	0.999999	2.05923e-26	1.000000
PhCHCCH2+H	1.42281e-26	0.999999	1.42281e-26	1.000000
rad26	1.72557e-27	0.999999	1.72557e-27	1.000000
PhCCCH3+H	2.10896e-29	0.999999	2.10896e-29	1.000000
rad9	3.60444e-30	0.999999	3.60444e-30	1.000000
rad8	1.31116e-32	0.999999	1.31116e-32	1.000000
Ph+MeAc	3.45778e-34	0.999999	3.45778e-34	1.000000
Ph+Allene	6.01626e-35	0.999999	6.01626e-35	1.000000
PAH7+H	2.52309e-35	0.999999	2.52309e-35	1.000000
rad60syn	9.43294e-37	0.999999	9.43295e-37	1.000000
rad39	5.55065e-37	0.999999	5.55066e-37	1.000000
rad60anti	3.46901e-38	0.999999	3.46902e-38	1.000000
rad12	1.45944e-38	0.999999	1.45944e-38	1.000000
PhCH2CCH+H	2.80206e-40	0.999999	2.80206e-40	1.000000
rad50	1.62829e-43	0.999999	1.62829e-43	1.000000
rad37	8.16101e-44	0.999999	8.16101e-44	1.000000
rad5	9.09635e-45	0.999999	9.09635e-45	1.000000
PAH3+H	5.03954e-46	0.999999	5.03955e-46	1.000000
rad59	2.57270e-46	0.999999	2.57271e-46	1.000000
rad19syn	6.23843e-53	0.999999	6.23843e-53	1.000000
rad52	1.33338e-53	0.999999	1.33338e-53	1.000000
rad54	2.02793e-56	0.999999	2.02793e-56	1.000000
PAH10+CH3	3.57750e-57	0.999999	3.57750e-57	1.000000
rad43	2.39074e-57	0.999999	2.39074e-57	1.000000
rad62	6.21453e-59	0.999999	6.21453e-59	1.000000
rad51	8.46886e-60	0.999999	8.46887e-60	1.000000
rad70	7.96350e-63	0.999999	7.96350e-63	1.000000
PhcycC3H3_A+H	5.41671e-63	0.999999	5.41672e-63	1.000000
rad55	2.60207e-63	0.999999	2.60207e-63	1.000000
rad65	2.15317e-64	0.999999	2.15317e-64	1.000000
rad58	2.57607e-66	0.999999	2.57607e-66	1.000000
PAH1+H	9.90485e-67	0.999999	9.90485e-67	1.000000
rad34	2.30756e-68	0.999999	2.30756e-68	1.000000
rad42	1.89147e-71	0.999999	1.89147e-71	1.000000
rad47	8.88402e-72	0.999999	8.88403e-72	1.000000
rad41	3.53782e-72	0.999999	3.53782e-72	1.000000

1.00000000 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15918e-108 (1.00)	1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.820190	0.820190	0.820191	0.820191
rad23	0.0934389	0.913629	0.0934390	0.913630
rad22	0.0827632	0.996392	0.0827633	0.996393
rad45	0.00321734	0.999609	0.00321735	0.999611
rad36	0.000200354	0.999810	0.000200355	0.999811
rad11	0.000142867	0.999953	0.000142868	0.999954
rad6	4.19043e-05	0.999995	4.19043e-05	0.999996
rad18	3.54983e-06	0.999998	3.54984e-06	0.999999
Benzy1+C2H2	1.03577e-06	0.999999	0.00000	0.999999
rad20	4.76273e-07	1.000000	4.76274e-07	1.000000
rad21	2.97519e-07	1.000000	2.97519e-07	1.000000
rad7	3.48430e-09	1.000000	3.48430e-09	1.000000
rad13	2.60038e-11	1.000000	2.60038e-11	1.000000
rad24	2.46397e-11	1.000000	2.46398e-11	1.000000
rad3	6.67390e-14	1.000000	6.67390e-14	1.000000
rad33	3.49243e-14	1.000000	3.49244e-14	1.000000
rad4	3.37451e-14	1.000000	3.37452e-14	1.000000
rad35	1.49052e-14	1.000000	1.49052e-14	1.000000
PAH9+H	3.22295e-15	1.000000	3.22295e-15	1.000000
rad2	2.11554e-16	1.000000	2.11554e-16	1.000000
rad38	3.58184e-17	1.000000	3.58184e-17	1.000000
rad1	1.33786e-17	1.000000	1.33787e-17	1.000000
rad30	3.07608e-18	1.000000	3.07608e-18	1.000000
rad10	2.89525e-19	1.000000	2.89525e-19	1.000000

rad25	2.00336e-19	1.000000	2.00337e-19	1.00000
rad28	3.39327e-20	1.000000	3.39327e-20	1.00000
rad15	3.06976e-22	1.000000	3.06977e-22	1.00000
rad31	1.70670e-23	1.000000	1.70671e-23	1.00000
rad27	5.25343e-25	1.000000	5.25344e-25	1.00000
rad14	5.22527e-25	1.000000	5.22527e-25	1.00000
rad46	1.37014e-25	1.000000	1.37014e-25	1.00000
PhCCH+CH3	9.25812e-26	1.000000	9.25813e-26	1.00000
rad26	3.67828e-26	1.000000	3.67828e-26	1.00000
PhCHCCH2+H	6.49798e-27	1.000000	6.49798e-27	1.00000
PhCCCH3+H	1.86225e-28	1.000000	1.86225e-28	1.00000
rad9	1.38122e-30	1.000000	1.38122e-30	1.00000
rad8	9.93098e-32	1.000000	9.93099e-32	1.00000
Ph+MeAc	2.13697e-33	1.000000	2.13697e-33	1.00000
PAH7+H	1.31233e-34	1.000000	1.31234e-34	1.00000
Ph+Allene	1.24975e-34	1.000000	1.24975e-34	1.00000
rad39	2.89911e-36	1.000000	2.89912e-36	1.00000
rad60syn	8.95964e-37	1.000000	8.95965e-37	1.00000
rad12	2.54938e-37	1.000000	2.54938e-37	1.00000
rad60anti	2.90168e-38	1.000000	2.90168e-38	1.00000
PhCH2CCH+H	7.19756e-40	1.000000	7.19757e-40	1.00000
rad37	9.49584e-43	1.000000	9.49585e-43	1.00000
rad50	5.47472e-44	1.000000	5.47473e-44	1.00000
rad5	4.84671e-44	1.000000	4.84672e-44	1.00000
PAH3+H	1.76515e-46	1.000000	1.76515e-46	1.00000
rad59	9.05371e-47	1.000000	9.05372e-47	1.00000
rad19syn	1.73242e-52	1.000000	1.73242e-52	1.00000
rad52	1.20307e-54	1.000000	1.20307e-54	1.00000
rad54	5.65415e-56	1.000000	5.65415e-56	1.00000
PAH10+CH3	2.10684e-56	1.000000	2.10684e-56	1.00000
rad43	8.36402e-57	1.000000	8.36402e-57	1.00000
rad62	1.85261e-58	1.000000	1.85261e-58	1.00000
rad51	5.15995e-61	1.000000	5.15995e-61	1.00000
rad70	2.19818e-62	1.000000	2.19818e-62	1.00000
PhcycC3H3_A+H	1.49092e-62	1.000000	1.49092e-62	1.00000
rad55	7.16996e-63	1.000000	7.16997e-63	1.00000
rad65	3.79884e-65	1.000000	3.79885e-65	1.00000
rad58	7.05404e-66	1.000000	7.05405e-66	1.00000
PAH1+H	3.34627e-66	1.000000	3.34628e-66	1.00000
rad34	6.09510e-68	1.000000	6.09511e-68	1.00000
rad42	4.79845e-71	1.000000	4.79846e-71	1.00000
rad41	8.87514e-72	1.000000	8.87515e-72	1.00000
rad47	6.72016e-72	1.000000	6.72016e-72	1.00000

1.00000000 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.861451	0.861451	0.861452	0.861452
rad23	0.0954996	0.956951	0.0954997	0.956952
rad22	0.0396523	0.996603	0.0396524	0.996604
rad45	0.00301625	0.999619	0.00301626	0.999620
rad36	0.000187718	0.999807	0.000187718	0.999808
rad11	0.000130022	0.999937	0.000130022	0.999938
rad6	6.06014e-05	0.999997	6.06014e-05	0.999999
Benzyl+C2H2	1.52093e-06	0.999999	0.00000	0.999999
rad18	8.49768e-07	1.000000	8.49769e-07	1.000000
rad20	1.63000e-07	1.00000	1.63001e-07	1.000000
rad21	1.02397e-07	1.00000	1.02397e-07	1.000000
rad7	6.15448e-09	1.00000	6.15449e-09	1.000000
rad13	3.51108e-11	1.00000	3.51109e-11	1.000000
rad24	2.32392e-11	1.00000	2.32392e-11	1.000000
rad3	1.59207e-13	1.00000	1.59208e-13	1.000000
rad4	8.05247e-14	1.00000	8.05248e-14	1.000000
rad33	4.92219e-14	1.00000	4.92219e-14	1.000000
rad35	3.11125e-14	1.00000	3.11125e-14	1.000000
PAH9+H	6.50980e-15	1.00000	6.50981e-15	1.000000
rad2	8.02376e-16	1.00000	8.02377e-16	1.000000
rad38	7.07709e-17	1.00000	7.07710e-17	1.000000
rad1	5.08043e-17	1.00000	5.08043e-17	1.000000
rad30	3.41788e-18	1.00000	3.41789e-18	1.000000
rad10	1.63588e-18	1.00000	1.63588e-18	1.000000
rad25	2.18351e-19	1.00000	2.18352e-19	1.000000
rad28	8.39561e-20	1.00000	8.39563e-20	1.000000
rad15	3.33248e-22	1.00000	3.33249e-22	1.000000
rad31	4.14663e-23	1.00000	4.14663e-23	1.000000

rad27	2.54052e-24	1.00000	2.54052e-24	1.000000
rad14	1.69649e-24	1.00000	1.69649e-24	1.000000
PhCCH+CH3	2.86252e-25	1.00000	2.86252e-25	1.000000
rad26	2.61234e-25	1.00000	2.61235e-25	1.000000
rad46	2.29962e-25	1.00000	2.29963e-25	1.000000
PhCHCCH2+H	1.15764e-26	1.00000	1.15764e-26	1.000000
PhCCCH3+H	8.57158e-28	1.00000	8.57159e-28	1.000000
rad9	2.00563e-30	1.00000	2.00563e-30	1.000000
rad8	4.30890e-31	1.00000	4.30890e-31	1.000000
Ph+MeAc	8.76038e-33	1.00000	8.76039e-33	1.000000
PAH7+H	4.83353e-34	1.00000	4.83354e-34	1.000000
Ph+Allene	3.14373e-34	1.00000	3.14374e-34	1.000000
rad39	1.08209e-35	1.00000	1.08209e-35	1.000000
rad12	1.74806e-36	1.00000	1.74806e-36	1.000000
rad60syn	9.99998e-37	1.00000	9.99999e-37	1.000000
rad60anti	2.97900e-38	1.00000	2.97901e-38	1.000000
PhCH2CCH+H	1.93406e-39	1.00000	1.93406e-39	1.000000
rad37	5.80764e-42	1.00000	5.80765e-42	1.000000
rad5	1.96938e-43	1.00000	1.96938e-43	1.000000
rad50	3.24468e-44	1.00000	3.24468e-44	1.000000
PAH3+H	1.70342e-46	1.00000	1.70342e-46	1.000000
rad59	8.58431e-47	1.00000	8.58432e-47	1.000000
rad19syn	5.13170e-52	1.00000	5.13170e-52	1.000000
rad52	4.04770e-55	1.00000	4.04771e-55	1.000000
rad54	1.70752e-55	1.00000	1.70752e-55	1.000000
PAH10+CH3	8.70853e-56	1.00000	8.70854e-56	1.000000
rad43	2.76035e-56	1.00000	2.76036e-56	1.000000
rad62	5.79146e-58	1.00000	5.79147e-58	1.000000
rad51	6.52855e-61	1.00000	6.52856e-61	1.000000
rad70	6.78310e-62	1.00000	6.78311e-62	1.000000
PhcycC3H3_A+H	4.60088e-62	1.00000	4.60089e-62	1.000000
rad55	2.21271e-62	1.00000	2.21271e-62	1.000000
rad65	1.02652e-64	1.00000	1.02652e-64	1.000000
rad58	2.17696e-65	1.00000	2.17696e-65	1.000000
PAH1+H	1.09754e-65	1.00000	1.09754e-65	1.000000
rad34	1.85465e-67	1.00000	1.85466e-67	1.000000
rad42	1.42793e-70	1.00000	1.42793e-70	1.000000
rad41	2.62981e-71	1.00000	2.62982e-71	1.000000
rad47	1.40411e-71	1.00000	1.40411e-71	1.000000

1.00000000 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.31816e-70 (1.00)	2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.881177	0.881177	0.881179	0.881179
rad23	0.0944541	0.975631	0.0944543	0.975633
rad22	0.0211776	0.996809	0.0211777	0.996811
rad45	0.00281497	0.999624	0.00281498	0.999626
rad36	0.000175054	0.999799	0.000175054	0.999801
rad11	0.000119006	0.999918	0.000119006	0.999920
rad6	7.91238e-05	0.999997	7.91240e-05	0.999999
Benzyl+C2H2	2.25066e-06	0.999999	0.00000	0.999999
rad18	3.12680e-07	0.999999	3.12681e-07	0.999999
rad20	7.82089e-08	0.999999	7.82091e-08	1.000000
rad21	4.92745e-08	1.000000	4.92746e-08	1.000000
rad7	9.01098e-09	1.000000	9.01100e-09	1.000000
rad13	4.39069e-11	1.000000	4.39070e-11	1.000000
rad24	2.18452e-11	1.000000	2.18452e-11	1.000000
rad3	3.15339e-13	1.000000	3.15340e-13	1.000000
rad4	1.59565e-13	1.000000	1.59565e-13	1.000000
rad35	6.42341e-14	1.000000	6.42343e-14	1.000000
rad33	6.34582e-14	1.000000	6.34583e-14	1.000000
PAH9+H	1.31895e-14	1.000000	1.31895e-14	1.000000
rad2	2.34955e-15	1.000000	2.34955e-15	1.000000
rad1	1.49028e-16	1.000000	1.49028e-16	1.000000
rad38	1.42701e-16	1.000000	1.42702e-16	1.000000
rad10	6.58354e-18	1.000000	6.58356e-18	1.000000
rad30	6.03713e-18	1.000000	6.03715e-18	1.000000
rad25	3.14688e-19	1.000000	3.14689e-19	1.000000
rad28	2.10062e-19	1.000000	2.10062e-19	1.000000
rad15	5.83543e-22	1.000000	5.83545e-22	1.000000
rad31	8.43100e-23	1.000000	8.43102e-23	1.000000
rad27	1.00030e-23	1.000000	1.00030e-23	1.000000
rad14	5.25103e-24	1.000000	5.25105e-24	1.000000
rad26	1.37552e-24	1.000000	1.37552e-24	1.000000
PhCCH+CH3	8.76362e-25	1.000000	8.76364e-25	1.000000

rad46	4.24849e-25	1.000000	4.24850e-25	1.000000
PhCHCCH2+H	3.73051e-26	1.000000	3.73052e-26	1.000000
PhCCCH3+H	3.52919e-27	1.000000	3.52920e-27	1.000000
rad9	4.72861e-30	1.000000	4.72862e-30	1.000000
rad8	1.74516e-30	1.000000	1.74517e-30	1.000000
Ph+MeAc	3.55810e-32	1.000000	3.55811e-32	1.000000
PAH7+H	1.75863e-33	1.000000	1.75863e-33	1.000000
Ph+Allene	9.11353e-34	1.000000	9.11355e-34	1.000000
rad39	4.01343e-35	1.000000	4.01344e-35	1.000000
rad12	9.85648e-36	1.000000	9.85650e-36	1.000000
rad60syn	1.42222e-36	1.000000	1.42222e-36	1.000000
rad60anti	4.05212e-38	1.000000	4.05213e-38	1.000000
PhCH2CCH+H	6.02008e-39	1.000000	6.02010e-39	1.000000
rad37	3.27235e-41	1.000000	3.27235e-41	1.000000
rad5	8.47459e-43	1.000000	8.47461e-43	1.000000
rad50	3.12881e-44	1.000000	3.12882e-44	1.000000
PAH3+H	3.69908e-46	1.000000	3.69908e-46	1.000000
rad59	1.83028e-46	1.000000	1.83029e-46	1.000000
rad19syn	1.82767e-51	1.000000	1.82767e-51	1.000000
rad54	6.27359e-55	1.000000	6.27360e-55	1.000000
PAH10+CH3	3.85487e-55	1.000000	3.85488e-55	1.000000
rad52	3.81234e-55	1.000000	3.81235e-55	1.000000
rad43	1.07769e-55	1.000000	1.07769e-55	1.000000
rad62	2.20275e-57	1.000000	2.20276e-57	1.000000
rad51	2.21974e-60	1.000000	2.21974e-60	1.000000
rad70	2.61036e-61	1.000000	2.61037e-61	1.000000
PhcycC3H3_A+H	1.77456e-61	1.000000	1.77456e-61	1.000000
rad55	8.52746e-62	1.000000	8.52748e-62	1.000000
rad65	3.90257e-64	1.000000	3.90257e-64	1.000000
rad58	8.40769e-65	1.000000	8.40771e-65	1.000000
PAH1+H	4.39382e-65	1.000000	4.39383e-65	1.000000
rad34	7.20567e-67	1.000000	7.20568e-67	1.000000
rad42	5.49916e-70	1.000000	5.49917e-70	1.000000
rad41	1.01204e-70	1.000000	1.01204e-70	1.000000
rad47	4.18294e-71	1.000000	4.18295e-71	1.000000

1.00000000 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.44107e-61 (1.00)	8.44104e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.892568	0.892568	0.892571	0.892571
rad23	0.0922220	0.984790	0.0922223	0.984793
rad22	0.0122045	0.996995	0.0122045	0.996998
rad45	0.00263150	0.999626	0.00263150	0.999629
rad36	0.000163508	0.999790	0.000163509	0.999793
rad11	0.000109009	0.999899	0.000109010	0.999902
rad6	9.78951e-05	0.999996	9.78954e-05	1.000000
Benzyl+C2H2	3.24005e-06	1.000000	0.000000	1.000000
rad18	1.44620e-07	1.000000	1.44621e-07	1.000000
rad20	4.46328e-08	1.000000	4.46330e-08	1.000000
rad21	2.81645e-08	1.000000	2.81646e-08	1.000000
rad7	1.19967e-08	1.000000	1.19967e-08	1.000000
rad13	5.27039e-11	1.000000	5.27041e-11	1.000000
rad24	2.05783e-11	1.000000	2.05784e-11	1.000000
rad3	5.70186e-13	1.000000	5.70188e-13	1.000000
rad4	2.88678e-13	1.000000	2.88679e-13	1.000000
rad35	1.32354e-13	1.000000	1.32354e-13	1.000000
rad33	7.79828e-14	1.000000	7.79830e-14	1.000000
PAH9+H	2.87887e-14	1.000000	2.87888e-14	1.000000
rad2	6.13839e-15	1.000000	6.13841e-15	1.000000
rad1	3.90190e-16	1.000000	3.90191e-16	1.000000
rad38	3.19144e-16	1.000000	3.19145e-16	1.000000
rad30	4.35593e-17	1.000000	4.35594e-17	1.000000
rad10	2.30283e-17	1.000000	2.30284e-17	1.000000
rad25	6.39862e-19	1.000000	6.39864e-19	1.000000
rad28	5.91791e-19	1.000000	5.91793e-19	1.000000
rad15	2.17432e-21	1.000000	2.17433e-21	1.000000
rad31	1.57421e-22	1.000000	1.57422e-22	1.000000
rad27	3.89692e-23	1.000000	3.89693e-23	1.000000
rad14	1.78061e-23	1.000000	1.78061e-23	1.000000
rad26	6.91071e-24	1.000000	6.91073e-24	1.000000
PhCCH+CH3	3.00866e-24	1.000000	3.00867e-24	1.000000
rad46	9.12448e-25	1.000000	9.12451e-25	1.000000
PhCHCCH2+H	1.50900e-25	1.000000	1.50901e-25	1.000000
PhCCCH3+H	1.54933e-26	1.000000	1.54933e-26	1.000000
rad9	1.46325e-29	1.000000	1.46325e-29	1.000000

rad8	7.73626e-30	1.000000	7.73628e-30	1.000000
Ph+MeAc	1.63634e-31	1.000000	1.63634e-31	1.000000
PAH7+H	7.13643e-33	1.000000	7.13645e-33	1.000000
Ph+Allene	3.18917e-33	1.000000	3.18918e-33	1.000000
rad39	1.66688e-34	1.000000	1.66689e-34	1.000000
rad12	5.72772e-35	1.000000	5.72774e-35	1.000000
rad60syn	2.63860e-36	1.000000	2.63861e-36	1.000000
rad60anti	7.43961e-38	1.000000	7.43963e-38	1.000000
PhCH2CCH+H	2.28270e-38	1.000000	2.28271e-38	1.000000
rad37	2.02527e-40	1.000000	2.02527e-40	1.000000
rad5	4.31144e-42	1.000000	4.31145e-42	1.000000
rad50	4.61077e-44	1.000000	4.61079e-44	1.000000
PAH3+H	1.28877e-45	1.000000	1.28878e-45	1.000000
rad59	6.31179e-46	1.000000	6.31181e-46	1.000000
rad19syn	8.15562e-51	1.000000	8.15565e-51	1.000000
rad54	2.91169e-54	1.000000	2.91170e-54	1.000000
PAH10+CH3	2.05062e-54	1.000000	2.05062e-54	1.000000
rad52	8.76486e-55	1.000000	8.76488e-55	1.000000
rad43	5.28471e-55	1.000000	5.28473e-55	1.000000
rad62	1.06279e-56	1.000000	1.06279e-56	1.000000
rad51	1.03979e-59	1.000000	1.03979e-59	1.000000
rad70	1.29119e-60	1.000000	1.29119e-60	1.000000
PhcycC3H3_A+H	8.81109e-61	1.000000	8.81112e-61	1.000000
rad55	4.22796e-61	1.000000	4.22798e-61	1.000000
rad65	1.91104e-63	1.000000	1.91104e-63	1.000000
rad58	4.18390e-64	1.000000	4.18391e-64	1.000000
PAH1+H	2.25923e-64	1.000000	2.25923e-64	1.000000
rad34	3.65948e-66	1.000000	3.65949e-66	1.000000
rad42	2.79543e-69	1.000000	2.79544e-69	1.000000
rad41	5.15285e-70	1.000000	5.15286e-70	1.000000
rad47	1.72067e-70	1.000000	1.72067e-70	1.000000

1.00000000 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.61998e-54 (1.00)	5.61996e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.900248	0.900248	0.900252	0.900252
rad23	0.00894666	0.989715	0.00894670	0.989719
rad22	0.00744448	0.997159	0.00744452	0.997164
rad45	0.00246644	0.999626	0.00246646	0.999630
rad36	0.000153133	0.999779	0.000153134	0.999783
rad6	0.000117175	0.999896	0.000117175	0.999900
rad11	9.96750e-05	0.999996	9.96755e-05	1.000000
Benzyl+C2H2	4.54101e-06	1.00000	0.00000	1.000000
rad18	7.70644e-08	1.00000	7.70648e-08	1.00000
rad20	2.83220e-08	1.00000	2.83221e-08	1.00000
rad21	1.78875e-08	1.00000	1.78876e-08	1.00000
rad7	1.50935e-08	1.00000	1.50936e-08	1.00000
rad13	6.16724e-11	1.00000	6.16727e-11	1.00000
rad24	1.94403e-11	1.00000	1.94404e-11	1.00000
rad3	9.80032e-13	1.00000	9.80036e-13	1.00000
rad4	4.96494e-13	1.00000	4.96496e-13	1.00000
rad35	2.62295e-13	1.00000	2.62296e-13	1.00000
rad33	9.30078e-14	1.00000	9.30082e-14	1.00000
PAH9+H	6.69089e-14	1.00000	6.69092e-14	1.00000
rad2	1.52389e-14	1.00000	1.52389e-14	1.00000
rad30	1.08800e-15	1.00000	1.08801e-15	1.00000
rad1	9.71083e-16	1.00000	9.71087e-16	1.00000
rad38	8.54272e-16	1.00000	8.54276e-16	1.00000
rad10	7.64635e-17	1.00000	7.64639e-17	1.00000
rad25	2.52035e-18	1.00000	2.52036e-18	1.00000
rad28	2.07777e-18	1.00000	2.07778e-18	1.00000
rad15	1.03766e-19	1.00000	1.03766e-19	1.00000
rad31	2.80744e-22	1.00000	2.80746e-22	1.00000
rad27	1.66331e-22	1.00000	1.66331e-22	1.00000
rad14	7.49429e-23	1.00000	7.49433e-23	1.00000
rad26	3.87857e-23	1.00000	3.87859e-23	1.00000
PhCCH+CH3	1.31614e-23	1.00000	1.31614e-23	1.00000
rad46	2.47973e-24	1.00000	2.47975e-24	1.00000
PhCHCCH2+H	7.83658e-25	1.00000	7.83662e-25	1.00000
PhCCCH3+H	8.40224e-26	1.00000	8.40228e-26	1.00000
rad9	6.24977e-29	1.00000	6.24980e-29	1.00000
rad8	4.33158e-29	1.00000	4.33160e-29	1.00000
Ph+MeAc	9.75151e-31	1.00000	9.75156e-31	1.00000
PAH7+H	3.68400e-32	1.00000	3.68401e-32	1.00000
Ph+Allene	1.49000e-32	1.00000	1.49000e-32	1.00000

rad39	8.83119e-34	1.00000	8.83123e-34	1.00000
rad12	4.07308e-34	1.00000	4.07310e-34	1.00000
rad60syn	6.89152e-36	1.00000	6.89156e-36	1.00000
rad60anti	1.98714e-37	1.00000	1.98715e-37	1.00000
PhCH2CCH+H	1.16412e-37	1.00000	1.16412e-37	1.00000
rad37	1.60557e-39	1.00000	1.60558e-39	1.00000
rad5	2.94274e-41	1.00000	2.94275e-41	1.00000
rad50	1.06450e-43	1.00000	1.06450e-43	1.00000
PAH3+H	6.61987e-45	1.00000	6.61990e-45	1.00000
rad59	3.22302e-45	1.00000	3.22303e-45	1.00000
rad19syn	4.99214e-50	1.00000	4.99216e-50	1.00000
rad54	1.86422e-53	1.00000	1.86423e-53	1.00000
PAH10+CH3	1.47866e-53	1.00000	1.47867e-53	1.00000
rad52	4.06670e-54	1.00000	4.06671e-54	1.00000
rad43	3.58960e-54	1.00000	3.58962e-54	1.00000
rad62	7.11285e-56	1.00000	7.11289e-56	1.00000
rad51	6.81602e-59	1.00000	6.81605e-59	1.00000
rad70	8.91798e-60	1.00000	8.91802e-60	1.00000
PhcycC3H3_A+H	6.11563e-60	1.00000	6.11566e-60	1.00000
rad55	2.92896e-60	1.00000	2.92897e-60	1.00000
rad65	1.30357e-62	1.00000	1.30358e-62	1.00000
rad58	2.91227e-63	1.00000	2.91229e-63	1.00000
PAH1+H	1.62782e-63	1.00000	1.62783e-63	1.00000
rad34	2.62673e-65	1.00000	2.62674e-65	1.00000
rad42	2.02300e-68	1.00000	2.02301e-68	1.00000
rad41	3.74194e-69	1.00000	3.74195e-69	1.00000
rad47	1.03397e-69	1.00000	1.03398e-69	1.00000

1.00000000 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.28864e-49 (1.00)	7.28860e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.906110	0.906110	0.906115	0.906115
rad23	0.0864493	0.992559	0.0864498	0.992565
rad22	0.00474609	0.997305	0.00474612	0.997311
rad45	0.00231679	0.999622	0.00231680	0.999628
rad36	0.000143743	0.999766	0.000143744	0.999771
rad6	0.000137181	0.999903	0.000137182	0.999909
rad11	9.08422e-05	0.999994	9.08428e-05	0.999999
Benzyl+C2H2	6.23426e-06	1.00000	0.00000	0.999999
rad18	4.51940e-08	1.00000	4.51943e-08	1.000000
rad20	1.93046e-08	1.00000	1.93047e-08	1.000000
rad7	1.83029e-08	1.00000	1.83030e-08	1.000000
rad21	1.21984e-08	1.00000	1.21985e-08	1.000000
rad13	7.09420e-11	1.00000	7.09425e-11	1.000000
rad24	1.84078e-11	1.00000	1.84079e-11	1.000000
rad3	1.63466e-12	1.00000	1.63467e-12	1.000000
rad4	8.28731e-13	1.00000	8.28736e-13	1.000000
rad35	4.91674e-13	1.00000	4.91678e-13	1.000000
PAH9+H	1.55227e-13	1.00000	1.55228e-13	1.000000
rad33	1.08714e-13	1.00000	1.08715e-13	1.000000
rad2	3.70982e-14	1.00000	3.70985e-14	1.000000
rad30	1.53176e-14	1.00000	1.53177e-14	1.000000
rad38	2.64861e-15	1.00000	2.64863e-15	1.000000
rad1	2.37065e-15	1.00000	2.37066e-15	1.000000
rad10	2.51213e-16	1.00000	2.51215e-16	1.000000
rad25	2.46026e-17	1.00000	2.46028e-17	1.000000
rad28	9.32745e-18	1.00000	9.32751e-18	1.000000
rad15	4.91636e-18	1.00000	4.91639e-18	1.000000
rad27	7.85109e-22	1.00000	7.85114e-22	1.000000
rad31	4.87820e-22	1.00000	4.87823e-22	1.000000
rad14	4.39639e-22	1.00000	4.39642e-22	1.000000
rad26	2.68054e-22	1.00000	2.68055e-22	1.000000
PhCCH+CH3	8.70693e-23	1.00000	8.70698e-23	1.000000
rad46	1.02770e-23	1.00000	1.02770e-23	1.000000
PhCHCCH2+H	6.71693e-24	1.00000	6.71697e-24	1.000000
PhCCCH3+H	6.67524e-25	1.00000	6.67528e-25	1.000000
rad9	4.82896e-28	1.00000	4.82899e-28	1.000000
rad8	3.69978e-28	1.00000	3.69980e-28	1.000000
Ph+MeAc	9.18210e-30	1.00000	9.18215e-30	1.000000
PAH7+H	2.97284e-31	1.00000	2.97286e-31	1.000000
Ph+Allene	1.12561e-31	1.00000	1.12562e-31	1.000000
rad39	7.33021e-33	1.00000	7.33025e-33	1.000000
rad12	4.38608e-33	1.00000	4.38611e-33	1.000000
rad60syn	3.29179e-35	1.00000	3.29181e-35	1.000000
PhCH2CCH+H	9.64432e-37	1.00000	9.64438e-37	1.000000

rad60anti	9.63943e-37	1.00000	9.63949e-37	1.000000
rad37	2.02570e-38	1.00000	2.02571e-38	1.000000
rad5	3.30747e-40	1.00000	3.30749e-40	1.000000
rad50	4.51814e-43	1.00000	4.51817e-43	1.000000
PAH3+H	5.70934e-44	1.00000	5.70938e-44	1.000000
rad59	2.76796e-44	1.00000	2.76798e-44	1.000000
rad19syn	5.03437e-49	1.00000	5.03440e-49	1.000000
rad54	1.97434e-52	1.00000	1.97435e-52	1.000000
PAH10+CH3	1.76891e-52	1.00000	1.76892e-52	1.000000
rad43	4.08659e-53	1.00000	4.08662e-53	1.000000
rad52	3.66859e-53	1.00000	3.66861e-53	1.000000
rad62	7.93398e-55	1.00000	7.93403e-55	1.000000
rad51	7.42497e-58	1.00000	7.42502e-58	1.000000
rad70	1.02777e-58	1.00000	1.02778e-58	1.000000
PhcycC3H3_A+H	7.08859e-59	1.00000	7.08864e-59	1.000000
rad55	3.38725e-59	1.00000	3.38727e-59	1.000000
rad65	1.48069e-61	1.00000	1.48070e-61	1.000000
rad58	3.38681e-62	1.00000	3.38684e-62	1.000000
PAH1+H	1.96515e-62	1.00000	1.96516e-62	1.000000
rad34	3.17436e-64	1.00000	3.17438e-64	1.000000
rad42	2.47880e-67	1.00000	2.47881e-67	1.000000
rad41	4.60880e-68	1.00000	4.60883e-68	1.000000
rad47	1.06937e-68	1.00000	1.06938e-68	1.000000

1.00000000 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.85154e-45 (1.00)	6.85148e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.911021	0.911021	0.911029	0.911029
rad23	0.0832802	0.994301	0.0832809	0.994310
rad22	0.00313489	0.997436	0.00313491	0.997445
rad45	0.00217927	0.999615	0.00217929	0.999624
rad6	0.000158113	0.999773	0.000158114	0.999782
rad36	0.000135136	0.999909	0.000135137	0.999917
rad11	8.24416e-05	0.999991	8.24423e-05	1.000000
Benzyl+C2H2	8.42918e-06	0.999999	0.000000	1.000000
rad18	2.83881e-08	1.000000	2.83883e-08	1.000000
rad7	2.16354e-08	1.000000	2.16356e-08	1.000000
rad20	1.38505e-08	1.000000	1.38507e-08	1.000000
rad21	8.75473e-09	1.000000	8.75480e-09	1.000000
rad13	8.06225e-11	1.000000	8.06232e-11	1.000000
rad24	1.74566e-11	1.000000	1.74568e-11	1.000000
rad3	2.67543e-12	1.000000	2.67545e-12	1.000000
rad4	1.35746e-12	1.000000	1.35747e-12	1.000000
rad35	8.74323e-13	1.000000	8.74331e-13	1.000000
PAH9+H	3.42649e-13	1.000000	3.42652e-13	1.000000
rad33	1.25268e-13	1.000000	1.25269e-13	1.000000
rad30	1.21099e-13	1.000000	1.21100e-13	1.000000
rad2	8.98581e-14	1.000000	8.98589e-14	1.000000
rad38	8.29431e-15	1.000000	8.29438e-15	1.000000
rad1	5.75978e-15	1.000000	5.75983e-15	1.000000
rad10	8.26496e-16	1.000000	8.26503e-16	1.000000
rad25	2.61602e-16	1.000000	2.61604e-16	1.000000
rad15	1.02625e-16	1.000000	1.02626e-16	1.000000
rad28	4.63352e-17	1.000000	4.63356e-17	1.000000
rad27	3.77283e-21	1.000000	3.77287e-21	1.000000
rad14	3.39921e-21	1.000000	3.39924e-21	1.000000
rad26	2.20801e-21	1.000000	2.20803e-21	1.000000
PhCCH+CH3	9.41763e-22	1.000000	9.41771e-22	1.000000
rad31	8.34586e-22	1.000000	8.34593e-22	1.000000
PhCHCCH2+H	1.79360e-22	1.000000	1.79361e-22	1.000000
rad46	8.86101e-23	1.000000	8.86108e-23	1.000000
PhCCCH3+H	8.38798e-24	1.000000	8.38805e-24	1.000000
rad9	7.04141e-26	1.000000	7.04147e-26	1.000000
rad8	5.63377e-27	1.000000	5.63382e-27	1.000000
Ph+MeAc	1.71296e-28	1.000000	1.71298e-28	1.000000
PAH7+H	4.98289e-30	1.000000	4.98293e-30	1.000000
Ph+Allene	1.85704e-30	1.000000	1.85705e-30	1.000000
rad39	1.27302e-31	1.000000	1.27303e-31	1.000000
rad12	8.90916e-32	1.000000	8.90924e-32	1.000000
rad60syn	1.06982e-33	1.000000	1.06982e-33	1.000000
rad60anti	2.09947e-35	1.000000	2.09949e-35	1.000000
PhCH2CCH+H	1.72781e-35	1.000000	1.72782e-35	1.000000
rad37	5.35460e-37	1.000000	5.35465e-37	1.000000
rad5	8.05539e-39	1.000000	8.05546e-39	1.000000
rad50	5.57944e-42	1.000000	5.57948e-42	1.000000

PAH3+H	1.08207e-42	1.000000	1.08208e-42	1.000000
rad59	5.22798e-43	1.000000	5.22803e-43	1.000000
rad19syn	1.10926e-47	1.000000	1.10927e-47	1.000000
PAH10+CH3	4.72167e-51	1.000000	4.72171e-51	1.000000
rad54	4.58219e-51	1.000000	4.58223e-51	1.000000
rad43	1.04414e-51	1.000000	1.04415e-51	1.000000
rad52	7.85702e-52	1.000000	7.85709e-52	1.000000
rad62	1.96160e-53	1.000000	1.96162e-53	1.000000
rad51	1.77753e-56	1.000000	1.77755e-56	1.000000
rad70	2.61254e-57	1.000000	2.61257e-57	1.000000
PhcycC3H3_A+H	1.81339e-57	1.000000	1.81340e-57	1.000000
rad55	8.64306e-58	1.000000	8.64313e-58	1.000000
rad65	3.70420e-60	1.000000	3.70423e-60	1.000000
rad58	8.69585e-61	1.000000	8.69593e-61	1.000000
PAH1+H	5.25262e-61	1.000000	5.25267e-61	1.000000
rad34	8.51952e-63	1.000000	8.51959e-63	1.000000
rad42	6.77699e-66	1.000000	6.77704e-66	1.000000
rad41	1.26897e-66	1.000000	1.26898e-66	1.000000
rad47	2.49509e-67	1.000000	2.49511e-67	1.000000

1.00000000 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02670e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.915417	0.915417	0.915428	0.915428
rad23	0.0800066	0.995424	0.0800075	0.995436
rad22	0.00213191	0.997556	0.00213194	0.997567
rad45	0.00205116	0.999607	0.00205118	0.999619
rad6	0.000180158	0.999787	0.000180160	0.999799
rad36	0.000127141	0.999914	0.000127143	0.999926
rad11	7.44517e-05	0.999988	7.44526e-05	1.00000
Benzyl+C2H2	1.12694e-05	1.000000	0.00000	1.00000
rad7	2.51063e-08	1.000000	2.51066e-08	1.00000
rad18	1.87704e-08	1.000000	1.87706e-08	1.00000
rad20	1.03257e-08	1.000000	1.03258e-08	1.00000
rad21	6.52810e-09	1.000000	6.52818e-09	1.00000
rad13	9.08140e-11	1.000000	9.08150e-11	1.00000
rad24	1.65663e-11	1.000000	1.65665e-11	1.00000
rad3	4.32110e-12	1.000000	4.32115e-12	1.00000
rad4	2.19437e-12	1.000000	2.19440e-12	1.00000
rad35	1.48985e-12	1.000000	1.48986e-12	1.00000
PAH9+H	7.09386e-13	1.000000	7.09394e-13	1.00000
rad30	6.31689e-13	1.000000	6.31696e-13	1.00000
rad2	2.17311e-13	1.000000	2.17313e-13	1.00000
rad33	1.42833e-13	1.000000	1.42834e-13	1.00000
rad38	2.39278e-14	1.000000	2.39281e-14	1.00000
rad1	1.39763e-14	1.000000	1.39764e-14	1.00000
rad10	2.70099e-15	1.000000	2.70102e-15	1.00000
rad25	1.95794e-15	1.000000	1.95796e-15	1.00000
rad15	1.16337e-15	1.000000	1.16338e-15	1.00000
rad28	2.17224e-16	1.000000	2.17226e-16	1.00000
rad14	2.69764e-20	1.000000	2.69767e-20	1.00000
rad26	1.89761e-20	1.000000	1.89763e-20	1.00000
rad27	1.68852e-20	1.000000	1.68854e-20	1.00000
PhCCH+CH3	1.28532e-20	1.000000	1.28533e-20	1.00000
PhCHCCH2+H	6.85533e-21	1.000000	6.85541e-21	1.00000
rad31	1.41327e-21	1.000000	1.41329e-21	1.00000
rad46	1.28861e-21	1.000000	1.28863e-21	1.00000
PhCCCH3+H	1.34931e-22	1.000000	1.34933e-22	1.00000
rad9	8.39480e-24	1.000000	8.39490e-24	1.00000
rad8	1.28581e-25	1.000000	1.28583e-25	1.00000
Ph+MeAc	6.12902e-27	1.000000	6.12909e-27	1.00000
PAH7+H	1.72275e-28	1.000000	1.72277e-28	1.00000
Ph+Allene	8.34916e-29	1.000000	8.34926e-29	1.00000
rad39	5.00430e-30	1.000000	5.00435e-30	1.00000
rad12	3.22037e-30	1.000000	3.22041e-30	1.00000
rad60syn	2.77216e-31	1.000000	2.77219e-31	1.00000
rad60anti	4.11650e-33	1.000000	4.11655e-33	1.00000
PhCH2CCH+H	7.58236e-34	1.000000	7.58245e-34	1.00000
rad37	3.11332e-35	1.000000	3.11336e-35	1.00000
rad5	4.49255e-37	1.000000	4.49260e-37	1.00000
rad50	3.30272e-40	1.000000	3.30276e-40	1.00000
PAH3+H	5.10780e-41	1.000000	5.10786e-41	1.00000
rad59	2.46212e-41	1.000000	2.46215e-41	1.00000
rad19syn	6.02992e-46	1.000000	6.02999e-46	1.00000
PAH10+CH3	3.16751e-49	1.000000	3.16755e-49	1.00000

rad54	2.62981e-49	1.000000	2.62984e-49	1.00000
rad43	6.78227e-50	1.000000	6.78235e-50	1.00000
rad52	4.62609e-50	1.000000	4.62614e-50	1.00000
rad62	1.21783e-51	1.000000	1.21784e-51	1.00000
rad51	1.05688e-54	1.000000	1.05690e-54	1.00000
rad70	1.65048e-55	1.000000	1.65050e-55	1.00000
PhcycC3H3_A+H	1.15350e-55	1.000000	1.15352e-55	1.00000
rad55	5.48253e-56	1.000000	5.48259e-56	1.00000
rad65	2.30139e-58	1.000000	2.30141e-58	1.00000
rad58	5.55326e-59	1.000000	5.55332e-59	1.00000
PAH1+H	3.50097e-59	1.000000	3.50101e-59	1.00000
rad34	5.71360e-61	1.000000	5.71367e-61	1.00000
rad42	4.64956e-64	1.000000	4.64961e-64	1.00000
rad41	8.78989e-65	1.000000	8.78999e-65	1.00000
rad47	1.47197e-65	1.000000	1.47199e-65	1.00000

1.00000000 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04926e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.919530	0.919530	0.919544	0.919544
rad23	0.0766483	0.996178	0.0766495	0.996194
rad45	0.00193028	0.998109	0.00193031	0.998124
rad22	0.00148588	0.999594	0.00148590	0.999610
rad6	0.000203510	0.999798	0.000203513	0.999813
rad36	0.000119621	0.999918	0.000119623	0.999933
rad11	6.68775e-05	0.999984	6.68785e-05	1.000000
Benzyl+C2H2	1.49413e-05	0.999999	0.000000	1.000000
rad7	2.87349e-08	0.999999	2.87353e-08	1.000000
rad18	1.29115e-08	0.999999	1.29117e-08	1.000000
rad20	7.92874e-09	0.999999	7.92886e-09	1.000000
rad21	5.01357e-09	0.999999	5.01364e-09	1.000000
rad13	1.01616e-10	0.999999	1.01617e-10	1.000000
rad24	1.57208e-11	0.999999	1.57210e-11	1.000000
rad3	6.90228e-12	0.999999	6.90239e-12	1.000000
rad4	3.50858e-12	0.999999	3.50863e-12	1.000000
rad35	2.45827e-12	0.999999	2.45831e-12	1.000000
rad30	2.43905e-12	0.999999	2.43908e-12	1.000000
PAH9+H	1.38310e-12	0.999999	1.38313e-12	1.000000
rad2	5.22721e-13	0.999999	5.22729e-13	1.000000
rad33	1.61575e-13	0.999999	1.61578e-13	1.000000
rad38	6.21987e-14	0.999999	6.21996e-14	1.000000
rad1	3.37421e-14	0.999999	3.37427e-14	1.000000
rad25	1.02819e-14	0.999999	1.02820e-14	1.000000
rad10	8.61128e-15	0.999999	8.61141e-15	1.000000
rad15	8.46143e-15	0.999999	8.46155e-15	1.000000
rad28	9.01640e-16	0.999999	9.01653e-16	1.000000
rad14	1.82743e-19	0.999999	1.82746e-19	1.000000
PhCHCCH2+H	1.69136e-19	0.999999	1.69139e-19	1.000000
PhCCH+CH3	1.60540e-19	0.999999	1.60542e-19	1.000000
rad26	1.52266e-19	0.999999	1.52268e-19	1.000000
rad27	6.73605e-20	0.999999	6.73615e-20	1.000000
rad46	1.72918e-20	0.999999	1.72920e-20	1.000000
rad31	2.37343e-21	0.999999	2.37346e-21	1.000000
PhCCCH3+H	2.07700e-21	0.999999	2.07703e-21	1.000000
rad9	4.15661e-22	0.999999	4.15667e-22	1.000000
rad8	5.49647e-24	0.999999	5.49656e-24	1.000000
Ph+MeAc	2.78640e-25	0.999999	2.78644e-25	1.000000
Ph+Allene	1.21891e-25	0.999999	1.21893e-25	1.000000
rad60syn	2.69949e-26	0.999999	2.69953e-26	1.000000
PAH7+H	6.92498e-27	0.999999	6.92508e-27	1.000000
rad60anti	1.02509e-27	0.999999	1.02511e-27	1.000000
rad39	2.70453e-28	0.999999	2.70457e-28	1.000000
rad12	1.40079e-28	0.999999	1.40081e-28	1.000000
PhCH2CCH+H	7.52065e-32	0.999999	7.52076e-32	1.000000
rad37	3.24257e-33	0.999999	3.24262e-33	1.000000
rad5	4.70332e-35	0.999999	4.70339e-35	1.000000
rad50	7.65994e-38	0.999999	7.66006e-38	1.000000
PAH3+H	5.79407e-39	0.999999	5.79416e-39	1.000000
rad59	2.80329e-39	0.999999	2.80333e-39	1.000000
rad19syn	7.39834e-44	0.999999	7.39845e-44	1.000000
PAH10+CH3	4.71573e-47	0.999999	4.71580e-47	1.000000
rad54	3.41264e-47	0.999999	3.41269e-47	1.000000
rad43	1.00154e-47	0.999999	1.00156e-47	1.000000
rad52	8.09915e-48	0.999999	8.09927e-48	1.000000
rad62	1.72967e-49	0.999999	1.72969e-49	1.000000

rad51	1.44587e-52	0.999999	1.44589e-52	1.000000
rad70	2.36710e-53	0.999999	2.36714e-53	1.000000
PhcycC3H3_A+H	1.66644e-53	0.999999	1.66646e-53	1.000000
rad55	7.89666e-54	0.999999	7.89678e-54	1.000000
rad65	3.25234e-56	0.999999	3.25239e-56	1.000000
rad58	8.05600e-57	0.999999	8.05612e-57	1.000000
PAH1+H	5.31282e-57	0.999999	5.31290e-57	1.000000
rad34	8.73753e-59	0.999999	8.73766e-59	1.000000
rad42	7.30614e-62	0.999999	7.30625e-62	1.000000
rad41	1.40003e-62	0.999999	1.40005e-62	1.000000
rad47	1.99901e-63	0.999999	1.99904e-63	1.000000

1.00000000 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87094e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.923494	0.923494	0.923512	0.923512
rad23	0.0732134	0.996707	0.0732149	0.996727
rad45	0.00181498	0.998522	0.00181501	0.998542
rad22	0.00105774	0.999580	0.00105776	0.999600
rad6	0.000228375	0.999808	0.000228379	0.999828
rad36	0.000112470	0.999921	0.000112472	0.999941
rad11	5.97369e-05	0.999981	5.97381e-05	1.000000
Benzyl+C2H2	1.96844e-05	1.000000	0.000000	1.000000
rad7	3.25445e-08	1.000000	3.25452e-08	1.000000
rad18	9.16263e-09	1.000000	9.16281e-09	1.000000
rad20	6.23179e-09	1.000000	6.23191e-09	1.000000
rad21	3.94122e-09	1.000000	3.94130e-09	1.000000
rad13	1.13132e-10	1.000000	1.13135e-10	1.000000
rad24	1.49075e-11	1.000000	1.49078e-11	1.000000
rad3	1.09029e-11	1.000000	1.09031e-11	1.000000
rad30	7.53892e-12	1.000000	7.53907e-12	1.000000
rad4	5.54808e-12	1.000000	5.54818e-12	1.000000
rad35	3.96116e-12	1.000000	3.96124e-12	1.000000
PAH9+H	2.56490e-12	1.000000	2.56495e-12	1.000000
rad2	1.24108e-12	1.000000	1.24110e-12	1.000000
rad33	1.81680e-13	1.000000	1.81684e-13	1.000000
rad38	1.46977e-13	1.000000	1.46979e-13	1.000000
rad1	8.04334e-14	1.000000	8.04349e-14	1.000000
rad15	4.42369e-14	1.000000	4.42378e-14	1.000000
rad25	4.03846e-14	1.000000	4.03854e-14	1.000000
rad10	2.62984e-14	1.000000	2.62990e-14	1.000000
rad28	3.29932e-15	1.000000	3.29938e-15	1.000000
PhCHCCH2+H	2.59270e-18	1.000000	2.59275e-18	1.000000
PhCCH+CH3	1.61539e-18	1.000000	1.61542e-18	1.000000
rad26	1.08476e-18	1.000000	1.08478e-18	1.000000
rad14	9.99464e-19	1.000000	9.99484e-19	1.000000
rad27	2.37524e-19	1.000000	2.37529e-19	1.000000
rad46	1.72910e-19	1.000000	1.72914e-19	1.000000
PhCCCH3+H	2.66302e-20	1.000000	2.66308e-20	1.000000
rad9	1.08477e-20	1.000000	1.08479e-20	1.000000
rad31	3.95227e-21	1.000000	3.95235e-21	1.000000
rad8	2.06627e-22	1.000000	2.06631e-22	1.000000
Ph+MeAc	1.00712e-23	1.000000	1.00714e-23	1.000000
Ph+Allene	9.90936e-24	1.000000	9.90955e-24	1.000000
rad60syn	1.65173e-24	1.000000	1.65176e-24	1.000000
PAH7+H	2.11804e-25	1.000000	2.11808e-25	1.000000
rad60anti	9.92856e-26	1.000000	9.92876e-26	1.000000
rad39	1.09296e-26	1.000000	1.09299e-26	1.000000
rad12	5.04736e-27	1.000000	5.04746e-27	1.000000
PhCH2CCH+H	9.59782e-30	1.000000	9.59801e-30	1.000000
rad37	3.54606e-31	1.000000	3.54613e-31	1.000000
rad5	5.34630e-33	1.000000	5.34641e-33	1.000000
rad50	2.11693e-35	1.000000	2.11697e-35	1.000000
PAH3+H	9.88073e-37	1.000000	9.88093e-37	1.000000
rad59	4.86538e-37	1.000000	4.86547e-37	1.000000
rad19syn	1.14032e-41	1.000000	1.14034e-41	1.000000
PAH10+CH3	8.64248e-45	1.000000	8.64265e-45	1.000000
rad54	5.57104e-45	1.000000	5.57115e-45	1.000000
rad52	2.41950e-45	1.000000	2.41955e-45	1.000000
rad43	1.85406e-45	1.000000	1.85409e-45	1.000000
rad62	3.12229e-47	1.000000	3.12235e-47	1.000000
rad51	2.65408e-50	1.000000	2.65413e-50	1.000000
rad70	4.28509e-51	1.000000	4.28517e-51	1.000000
PhcycC3H3_A+H	3.03986e-51	1.000000	3.03992e-51	1.000000
rad55	1.43587e-51	1.000000	1.43590e-51	1.000000

rad65	5.88160e-54	1.00000	5.88172e-54	1.00000
rad58	1.47594e-54	1.00000	1.47597e-54	1.00000
PAH1+H	1.02030e-54	1.00000	1.02032e-54	1.00000
rad34	1.69292e-56	1.00000	1.69295e-56	1.00000
rad42	1.46286e-59	1.00000	1.46289e-59	1.00000
rad41	2.86253e-60	1.00000	2.86259e-60	1.00000
rad47	3.47333e-61	1.00000	3.47340e-61	1.00000

1.00000000 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.94360e-35 (1.00)	3.94350e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.927383	0.927383	0.927407	0.927407
rad23	0.0697062	0.997089	0.0697080	0.997115
rad45	0.00170400	0.998793	0.00170405	0.998819
rad22	0.000767063	0.999560	0.000767082	0.999586
rad6	0.000254982	0.999815	0.000254989	0.999841
rad36	0.000105609	0.999921	0.000105611	0.999947
rad11	5.30522e-05	0.999974	5.30535e-05	1.000000
Benzyl+C2H2	2.58034e-05	1.000000	0.000000	1.000000
rad7	3.65632e-08	1.000000	3.65641e-08	1.000000
rad18	6.66720e-09	1.000000	6.66738e-09	1.000000
rad20	4.99068e-09	1.000000	4.99081e-09	1.000000
rad21	3.15692e-09	1.000000	3.15700e-09	1.000000
rad13	1.25479e-10	1.000000	1.25482e-10	1.000000
rad30	1.96994e-11	1.000000	1.96999e-11	1.000000
rad3	1.70038e-11	1.000000	1.70043e-11	1.000000
rad24	1.41172e-11	1.000000	1.41175e-11	1.000000
rad4	8.66274e-12	1.000000	8.66296e-12	1.000000
rad35	6.27097e-12	1.000000	6.27113e-12	1.000000
PAH9+H	4.56928e-12	1.000000	4.56940e-12	1.000000
rad2	2.88427e-12	1.000000	2.88434e-12	1.000000
rad38	3.20819e-13	1.000000	3.20828e-13	1.000000
rad33	2.03353e-13	1.000000	2.03359e-13	1.000000
rad1	1.87741e-13	1.000000	1.87746e-13	1.000000
rad15	1.79890e-13	1.000000	1.79894e-13	1.000000
rad25	1.25807e-13	1.000000	1.25810e-13	1.000000
rad10	7.59309e-14	1.000000	7.59328e-14	1.000000
rad28	1.08058e-14	1.000000	1.08060e-14	1.000000
PhCHCCH2+H	2.68811e-17	1.000000	2.68818e-17	1.000000
PhCCH+CH3	1.29485e-17	1.000000	1.29489e-17	1.000000
rad26	6.78279e-18	1.000000	6.78296e-18	1.000000
rad14	4.43557e-18	1.000000	4.43568e-18	1.000000
rad46	1.28734e-18	1.000000	1.28737e-18	1.000000
rad27	7.45987e-19	1.000000	7.46006e-19	1.000000
PhCCCH3+H	2.76955e-19	1.000000	2.76962e-19	1.000000
rad9	1.73193e-19	1.000000	1.73198e-19	1.000000
rad31	6.51627e-21	1.000000	6.51643e-21	1.000000
rad8	5.50913e-21	1.000000	5.50927e-21	1.000000
Ph+Allene	3.76001e-22	1.000000	3.76011e-22	1.000000
Ph+MeAc	2.62381e-22	1.000000	2.62388e-22	1.000000
rad60syn	5.22598e-23	1.000000	5.22611e-23	1.000000
PAH7+H	4.65080e-24	1.000000	4.65092e-24	1.000000
rad60anti	3.99725e-24	1.000000	3.99735e-24	1.000000
rad39	3.08601e-25	1.000000	3.08609e-25	1.000000
rad12	1.37646e-25	1.000000	1.37649e-25	1.000000
PhCH2CCH+H	1.32843e-26	1.000000	1.32846e-26	1.000000
rad37	3.60410e-29	1.000000	3.60419e-29	1.000000
rad5	5.99681e-31	1.000000	5.99697e-31	1.000000
rad50	7.66781e-33	1.000000	7.66801e-33	1.000000
PAH3+H	3.32483e-34	1.000000	3.32492e-34	1.000000
rad59	1.69473e-34	1.000000	1.69478e-34	1.000000
rad19syn	2.15897e-39	1.000000	2.15903e-39	1.000000
PAH10+CH3	1.84367e-42	1.000000	1.84371e-42	1.000000
rad54	1.11814e-42	1.000000	1.11817e-42	1.000000
rad52	1.08810e-42	1.000000	1.08813e-42	1.000000
rad43	4.06201e-43	1.000000	4.06211e-43	1.000000
rad62	6.89375e-45	1.000000	6.89393e-45	1.000000
rad51	7.32454e-48	1.000000	7.32473e-48	1.000000
rad70	9.56348e-49	1.000000	9.56373e-49	1.000000
PhcycC3H3_A+H	6.83872e-49	1.000000	6.83890e-49	1.000000
rad55	3.21932e-49	1.000000	3.21941e-49	1.000000
rad65	1.40127e-51	1.000000	1.40131e-51	1.000000
rad58	3.33547e-52	1.000000	3.33556e-52	1.000000
PAH1+H	2.42152e-52	1.000000	2.42158e-52	1.000000
rad34	4.05732e-54	1.000000	4.05743e-54	1.000000

rad42	3.65554e-57	1.000000	3.65563e-57	1.000000
rad41	7.41217e-58	1.000000	7.41236e-58	1.000000
rad47	7.63191e-59	1.000000	7.63211e-59	1.000000

1.00000000 Pa, 140.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.44756e-33 (1.00)		1.44751e-33 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.931244	0.931244	0.931275	0.931275
rad23	0.0661311	0.997375	0.0661333	0.997408
rad45	0.00159646	0.998972	0.00159652	0.999005
rad22	0.000565566	0.999537	0.000565585	0.999570
rad6	0.000283590	0.999821	0.000283599	0.999854
rad36	9.89799e-05	0.999920	9.89832e-05	0.999953
rad11	4.68431e-05	0.999967	4.68447e-05	1.000000
Benzyl+C2H2	3.36818e-05	1.00000	0.00000	1.000000
rad7	4.08237e-08	1.00000	4.08251e-08	1.000000
rad18	4.95160e-09	1.00000	4.95177e-09	1.000000
rad20	4.05838e-09	1.00000	4.05851e-09	1.000000
rad21	2.56779e-09	1.00000	2.56788e-09	1.000000
rad13	1.38784e-10	1.00000	1.38788e-10	1.000000
rad30	4.52439e-11	1.00000	4.52454e-11	1.000000
rad3	2.61211e-11	1.00000	2.61220e-11	1.000000
rad24	1.33429e-11	1.00000	1.33434e-11	1.000000
rad4	1.33246e-11	1.00000	1.33251e-11	1.000000
rad35	9.79085e-12	1.00000	9.79118e-12	1.000000
PAH9+H	7.88302e-12	1.00000	7.88329e-12	1.000000
rad2	6.51594e-12	1.00000	6.51616e-12	1.000000
rad38	6.56608e-13	1.00000	6.56630e-13	1.000000
rad15	6.01913e-13	1.00000	6.01933e-13	1.000000
rad1	4.26141e-13	1.00000	4.26155e-13	1.000000
rad25	3.25458e-13	1.00000	3.25469e-13	1.000000
rad33	2.26827e-13	1.00000	2.26835e-13	1.000000
rad10	2.05879e-13	1.00000	2.05886e-13	1.000000
rad28	3.22563e-14	1.00000	3.22574e-14	1.000000
PhCHCCH2+H	2.03950e-16	1.00000	2.03957e-16	1.000000
PhCCH+CH3	8.47351e-17	1.00000	8.47380e-17	1.000000
rad26	3.74314e-17	1.00000	3.74327e-17	1.000000
rad14	1.63447e-17	1.00000	1.63453e-17	1.000000
rad46	7.44384e-18	1.00000	7.44409e-18	1.000000
PhCCCH3+H	2.36898e-18	1.00000	2.36906e-18	1.000000
rad27	2.11364e-18	1.00000	2.11371e-18	1.000000
rad9	1.87813e-18	1.00000	1.87819e-18	1.000000
rad8	9.84496e-20	1.00000	9.84529e-20	1.000000
rad31	1.06159e-20	1.00000	1.06162e-20	1.000000
Ph+Allene	8.45040e-21	1.00000	8.45068e-21	1.000000
Ph+MeAc	4.91869e-21	1.00000	4.91886e-21	1.000000
rad60syn	1.00058e-21	1.00000	1.00061e-21	1.000000
rad60anti	9.29651e-23	1.00000	9.29683e-23	1.000000
PAH7+H	7.52368e-23	1.00000	7.52394e-23	1.000000
rad39	6.19470e-24	1.00000	6.19491e-24	1.000000
rad12	2.81338e-24	1.00000	2.81347e-24	1.000000
PhCH2CCH+H	9.68506e-25	1.00000	9.68539e-25	1.000000
rad37	2.22855e-27	1.00000	2.22863e-27	1.000000
PAH3+H	1.14969e-28	1.00000	1.14972e-28	1.000000
rad59	5.74870e-29	1.00000	5.74889e-29	1.000000
rad5	4.79064e-29	1.00000	4.79080e-29	1.000000
rad50	7.46695e-30	1.00000	7.46720e-30	1.000000
rad19syn	3.62909e-37	1.00000	3.62921e-37	1.000000
rad52	3.94315e-40	1.00000	3.94329e-40	1.000000
PAH10+CH3	3.37051e-40	1.00000	3.37063e-40	1.000000
rad54	1.99373e-40	1.00000	1.99380e-40	1.000000
rad43	7.66210e-41	1.00000	7.66235e-41	1.000000
rad62	1.34363e-42	1.00000	1.34367e-42	1.000000
rad51	2.36907e-45	1.00000	2.36915e-45	1.000000
rad70	1.90078e-46	1.00000	1.90084e-46	1.000000
PhcycC3H3_A+H	1.37055e-46	1.00000	1.37059e-46	1.000000
rad55	6.42881e-47	1.00000	6.42902e-47	1.000000
rad65	3.57522e-49	1.00000	3.57534e-49	1.000000
rad58	6.71695e-50	1.00000	6.71718e-50	1.000000
PAH1+H	5.13039e-50	1.00000	5.13056e-50	1.000000
rad34	8.68721e-52	1.00000	8.68750e-52	1.000000
rad42	8.29735e-55	1.00000	8.29763e-55	1.000000
rad41	1.79485e-55	1.00000	1.79491e-55	1.000000
rad47	1.62099e-56	1.00000	1.62105e-56	1.000000

1.00000000 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27722e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.935097	0.935097	0.935138	0.935138
rad23	0.0624954	0.997592	0.0624982	0.997636
rad45	0.00149177	0.999084	0.00149184	0.999128
rad22	0.000423314	0.999507	0.000423333	0.999551
rad6	0.000314484	0.999822	0.000314498	0.999866
rad36	9.25444e-05	0.999915	9.25485e-05	0.999958
Benzyl+C2H2	4.37980e-05	0.999958	0.00000	0.999958
rad11	4.11235e-05	0.999999	4.11253e-05	1.000000
rad7	4.53639e-08	0.999999	4.53659e-08	1.000000
rad18	3.74013e-09	0.999999	3.74029e-09	1.000000
rad20	3.34230e-09	0.999999	3.34244e-09	1.000000
rad21	2.11533e-09	0.999999	2.11542e-09	1.000000
rad13	1.53189e-10	0.999999	1.53195e-10	1.000000
rad30	9.39638e-11	0.999999	9.39679e-11	1.000000
rad3	3.94284e-11	0.999999	3.94301e-11	1.000000
rad4	2.01410e-11	0.999999	2.01419e-11	1.000000
rad35	1.51073e-11	0.999999	1.51079e-11	1.000000
rad2	1.42450e-11	0.999999	1.42457e-11	1.000000
PAH9+H	1.32486e-11	0.999999	1.32492e-11	1.000000
rad24	1.25802e-11	0.999999	1.25807e-11	1.000000
rad15	1.72667e-12	0.999999	1.72675e-12	1.000000
rad38	1.27514e-12	0.999999	1.27520e-12	1.000000
rad1	9.36419e-13	0.999999	9.36460e-13	1.000000
rad25	7.24173e-13	0.999999	7.24204e-13	1.000000
rad10	5.23438e-13	0.999999	5.23461e-13	1.000000
rad33	2.52365e-13	0.999999	2.52376e-13	1.000000
rad28	8.91943e-14	0.999999	8.91982e-14	1.000000
PhCHCCH2+H	1.20470e-15	0.999999	1.20476e-15	1.000000
PhCCH+CH3	4.66853e-16	0.999999	4.66874e-16	1.000000
rad26	1.84379e-16	0.999999	1.84387e-16	1.000000
rad14	5.12981e-17	0.999999	5.13003e-17	1.000000
rad46	3.49142e-17	0.999999	3.49158e-17	1.000000
PhCCCH3+H	1.70613e-17	0.999999	1.70621e-17	1.000000
rad9	1.49512e-17	0.999999	1.49518e-17	1.000000
rad27	5.47526e-18	0.999999	5.47550e-18	1.000000
rad8	1.22973e-18	0.999999	1.22978e-18	1.000000
Ph+Allene	1.26754e-19	0.999999	1.26760e-19	1.000000
Ph+MeAc	6.89040e-20	0.999999	6.89071e-20	1.000000
rad31	1.70559e-20	0.999999	1.70566e-20	1.000000
rad60syn	1.28844e-20	0.999999	1.28849e-20	1.000000
rad60anti	1.41402e-21	0.999999	1.41408e-21	1.000000
PAH7+H	9.40563e-22	0.999999	9.40604e-22	1.000000
rad39	9.31622e-23	0.999999	9.31663e-23	1.000000
rad12	4.43523e-23	0.999999	4.43543e-23	1.000000
PhCH2CCH+H	3.11921e-23	0.999999	3.11934e-23	1.000000
rad37	8.28282e-26	0.999999	8.28319e-26	1.000000
PAH3+H	1.80741e-26	0.999999	1.80749e-26	1.000000
rad59	8.14714e-27	0.999999	8.14749e-27	1.000000
rad5	2.27437e-27	0.999999	2.27447e-27	1.000000
rad50	5.20398e-28	0.999999	5.20421e-28	1.000000
rad19syn	1.00887e-34	0.999999	1.00891e-34	1.000000
rad52	2.27734e-37	0.999999	2.27744e-37	1.000000
PAH10+CH3	8.84028e-38	0.999999	8.84067e-38	1.000000
rad54	5.87697e-38	0.999999	5.87723e-38	1.000000
rad43	2.09680e-38	0.999999	2.09690e-38	1.000000
rad62	4.06445e-40	0.999999	4.06462e-40	1.000000
rad51	1.57183e-42	0.999999	1.57190e-42	1.000000
rad70	6.25174e-44	0.999999	6.25202e-44	1.000000
PhcycC3H3_A+H	4.54651e-44	0.999999	4.54671e-44	1.000000
rad55	2.12465e-44	0.999999	2.12475e-44	1.000000
rad65	2.08538e-46	0.999999	2.08547e-46	1.000000
rad58	2.24056e-47	0.999999	2.24065e-47	1.000000
PAH1+H	1.80256e-47	0.999999	1.80264e-47	1.000000
rad34	3.08689e-49	0.999999	3.08703e-49	1.000000
rad42	3.19738e-52	0.999999	3.19752e-52	1.000000
rad41	7.64583e-53	0.999999	7.64616e-53	1.000000
rad47	7.38194e-54	0.999999	7.38226e-54	1.000000

1.00000000 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 5.01169e-31 (1.00) 5.01140e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.938952	0.938952	0.939005	0.939005
rad23	0.0588104	0.997762	0.0588137	0.997819
rad45	0.00138958	0.999152	0.00138966	0.999208
rad6	0.000347984	0.999500	0.000348004	0.999556
rad22	0.000321239	0.999821	0.000321258	0.999878
rad36	8.62788e-05	0.999907	8.62837e-05	0.999964
Benzyl+C2H2	5.67432e-05	0.999964	0.00000	0.999964
rad11	3.58992e-05	1.00000	3.59012e-05	1.00000
rad7	5.02267e-08	1.00000	5.02295e-08	1.00000
rad18	2.86524e-09	1.00000	2.86540e-09	1.00000
rad20	2.78193e-09	1.00000	2.78209e-09	1.00000
rad21	1.76129e-09	1.00000	1.76139e-09	1.00000
rad30	1.80223e-10	1.00000	1.80233e-10	1.00000
rad13	1.68853e-10	1.00000	1.68862e-10	1.00000
rad3	5.83573e-11	1.00000	5.83606e-11	1.00000
rad2	3.00730e-11	1.00000	3.00747e-11	1.00000
rad4	2.98561e-11	1.00000	2.98578e-11	1.00000
rad35	2.30583e-11	1.00000	2.30596e-11	1.00000
PAH9+H	2.17792e-11	1.00000	2.17804e-11	1.00000
rad24	1.18263e-11	1.00000	1.18270e-11	1.00000
rad15	4.37864e-12	1.00000	4.37889e-12	1.00000
rad38	2.37090e-12	1.00000	2.37103e-12	1.00000
rad1	1.98796e-12	1.00000	1.98807e-12	1.00000
rad25	1.42382e-12	1.00000	1.42390e-12	1.00000
rad10	1.25042e-12	1.00000	1.25049e-12	1.00000
rad33	2.80263e-13	1.00000	2.80279e-13	1.00000
rad28	2.31504e-13	1.00000	2.31518e-13	1.00000
PhCHCCH2+H	5.81177e-15	1.00000	5.81210e-15	1.00000
PhCCH+CH3	2.22814e-15	1.00000	2.22827e-15	1.00000
rad26	8.20394e-16	1.00000	8.20441e-16	1.00000
rad14	1.40348e-16	1.00000	1.40356e-16	1.00000
rad46	1.37813e-16	1.00000	1.37821e-16	1.00000
PhCCCH3+H	1.05820e-16	1.00000	1.05826e-16	1.00000
rad9	9.26476e-17	1.00000	9.26528e-17	1.00000
rad27	1.31279e-17	1.00000	1.31286e-17	1.00000
rad8	1.13408e-17	1.00000	1.13414e-17	1.00000
Ph+Allene	1.37025e-18	1.00000	1.37032e-18	1.00000
Ph+MeAc	7.49427e-19	1.00000	7.49470e-19	1.00000
rad60syn	1.20359e-19	1.00000	1.20366e-19	1.00000
rad31	2.69865e-20	1.00000	2.69881e-20	1.00000
rad60anti	1.52615e-20	1.00000	1.52623e-20	1.00000
PAH7+H	9.47028e-21	1.00000	9.47081e-21	1.00000
rad39	1.09568e-21	1.00000	1.09574e-21	1.00000
PhCH2CCH+H	6.11323e-22	1.00000	6.11358e-22	1.00000
rad12	5.53097e-22	1.00000	5.53128e-22	1.00000
rad37	1.93169e-24	1.00000	1.93180e-24	1.00000
PAH3+H	5.41947e-25	1.00000	5.41978e-25	1.00000
rad59	2.28841e-25	1.00000	2.28854e-25	1.00000
rad5	6.02455e-26	1.00000	6.02490e-26	1.00000
rad50	1.37046e-26	1.00000	1.37054e-26	1.00000
rad19syn	2.20056e-32	1.00000	2.20069e-32	1.00000
rad52	8.83528e-35	1.00000	8.83578e-35	1.00000
PAH10+CH3	1.74942e-35	1.00000	1.74952e-35	1.00000
rad54	1.35953e-35	1.00000	1.35960e-35	1.00000
rad43	4.30345e-36	1.00000	4.30369e-36	1.00000
rad62	9.40960e-38	1.00000	9.41014e-38	1.00000
rad51	7.00635e-40	1.00000	7.00675e-40	1.00000
rad70	1.61538e-41	1.00000	1.61547e-41	1.00000
PhcycC3H3_A+H	1.18515e-41	1.00000	1.18522e-41	1.00000
rad55	5.51678e-42	1.00000	5.51709e-42	1.00000
rad65	1.02455e-43	1.00000	1.02461e-43	1.00000
rad58	5.88073e-45	1.00000	5.88107e-45	1.00000
PAH1+H	4.98653e-45	1.00000	4.98681e-45	1.00000
rad34	8.64309e-47	1.00000	8.64358e-47	1.00000
rad42	1.00557e-49	1.00000	1.00563e-49	1.00000
rad41	2.77307e-50	1.00000	2.77323e-50	1.00000
rad47	3.52060e-51	1.00000	3.52080e-51	1.00000

1.00000000 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54780e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.942803	0.942803	0.942872	0.942872
rad23	0.0550916	0.997895	0.0550956	0.997968
rad45	0.00128977	0.999184	0.00128986	0.999257
rad6	0.000384441	0.999569	0.000384469	0.999642
rad22	0.000246901	0.999816	0.000246919	0.999889
rad36	8.01728e-05	0.999896	8.01787e-05	0.999969
Benzyl+C2H2	7.32419e-05	0.999969	0.00000	0.999969
rad11	3.11670e-05	1.00000	3.11693e-05	1.00000
rad7	5.54593e-08	1.00000	5.54634e-08	1.00000
rad20	2.33646e-09	1.00000	2.33663e-09	1.00000
rad18	2.22133e-09	1.00000	2.22149e-09	1.00000
rad21	1.47986e-09	1.00000	1.47997e-09	1.00000
rad30	3.24331e-10	1.00000	3.24355e-10	1.00000
rad13	1.85949e-10	1.00000	1.85963e-10	1.00000
rad3	8.45707e-11	1.00000	8.45769e-11	1.00000
rad2	6.12959e-11	1.00000	6.13004e-11	1.00000
rad4	4.33396e-11	1.00000	4.33428e-11	1.00000
PAH9+H	3.51133e-11	1.00000	3.51159e-11	1.00000
rad35	3.48205e-11	1.00000	3.48230e-11	1.00000
rad24	1.10804e-11	1.00000	1.10812e-11	1.00000
rad15	1.00466e-11	1.00000	1.00473e-11	1.00000
rad38	4.24874e-12	1.00000	4.24906e-12	1.00000
rad1	4.07660e-12	1.00000	4.07690e-12	1.00000
rad10	2.81796e-12	1.00000	2.81816e-12	1.00000
rad25	2.52592e-12	1.00000	2.52610e-12	1.00000
rad28	5.69886e-13	1.00000	5.69928e-13	1.00000
rad33	3.10851e-13	1.00000	3.10873e-13	1.00000
PhCHCCH2+H	2.37702e-14	1.00000	2.37719e-14	1.00000
PhCCH+CH3	9.43748e-15	1.00000	9.43817e-15	1.00000
rad26	3.33229e-15	1.00000	3.33253e-15	1.00000
PhCCCH3+H	5.76037e-16	1.00000	5.76079e-16	1.00000
rad46	4.71596e-16	1.00000	4.71631e-16	1.00000
rad9	4.67453e-16	1.00000	4.67488e-16	1.00000
rad14	3.41485e-16	1.00000	3.41510e-16	1.00000
rad8	8.11346e-17	1.00000	8.11406e-17	1.00000
rad27	2.94498e-17	1.00000	2.94520e-17	1.00000
Ph+Allene	1.13196e-17	1.00000	1.13204e-17	1.00000
Ph+MeAc	6.55725e-18	1.00000	6.55773e-18	1.00000
rad60syn	8.64090e-19	1.00000	8.64153e-19	1.00000
rad60anti	1.24311e-19	1.00000	1.24320e-19	1.00000
PAH7+H	7.95083e-20	1.00000	7.95141e-20	1.00000
rad31	4.20254e-20	1.00000	4.20284e-20	1.00000
rad39	1.04750e-20	1.00000	1.04758e-20	1.00000
PhCH2CCH+H	8.47033e-21	1.00000	8.47095e-21	1.00000
rad12	5.60336e-21	1.00000	5.60377e-21	1.00000
rad37	3.19362e-23	1.00000	3.19386e-23	1.00000
PAH3+H	9.94972e-24	1.00000	9.95045e-24	1.00000
rad59	4.05232e-24	1.00000	4.05262e-24	1.00000
rad5	1.08943e-24	1.00000	1.08951e-24	1.00000
rad50	2.34680e-25	1.00000	2.34697e-25	1.00000
rad19syn	4.25646e-30	1.00000	4.25677e-30	1.00000
rad52	2.26656e-31	1.00000	2.26673e-31	1.00000
PAH10+CH3	2.57119e-33	1.00000	2.57138e-33	1.00000
rad54	2.43367e-33	1.00000	2.43385e-33	1.00000
rad43	6.52930e-34	1.00000	6.52978e-34	1.00000
rad62	1.64157e-35	1.00000	1.64169e-35	1.00000
rad51	1.91318e-37	1.00000	1.91332e-37	1.00000
rad70	3.23162e-39	1.00000	3.23186e-39	1.00000
PhcycC3H3_A+H	2.39234e-39	1.00000	2.39251e-39	1.00000
rad55	1.10910e-39	1.00000	1.10918e-39	1.00000
rad65	3.37269e-41	1.00000	3.37294e-41	1.00000
rad58	1.19728e-42	1.00000	1.19737e-42	1.00000
PAH1+H	1.06998e-42	1.00000	1.07006e-42	1.00000
rad34	1.87862e-44	1.00000	1.87875e-44	1.00000
rad42	2.55157e-47	1.00000	2.55176e-47	1.00000
rad41	8.31344e-48	1.00000	8.31405e-48	1.00000
rad47	1.37000e-48	1.00000	1.37010e-48	1.00000

1.0000000 Pa, 180.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69315e-29 (1.00)	4.69271e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.946637	0.946637	0.946726	0.946726
rad23	0.0513591	0.997996	0.0513639	0.998090
rad45	0.00119240	0.999188	0.00119251	0.999282
rad6	0.000424233	0.999613	0.000424273	0.999707

rad22	0.000192014	0.999805	0.000192032	0.999899
Benzyl+C2H2	9.41743e-05	0.999899	0.00000	0.999899
rad36	7.42276e-05	0.999973	7.42346e-05	0.999973
rad11	2.69158e-05	1.00000	2.69183e-05	1.000000
rad7	6.11136e-08	1.00000	6.11193e-08	1.000000
rad20	1.97754e-09	1.00000	1.97773e-09	1.000000
rad18	1.73972e-09	1.00000	1.73989e-09	1.000000
rad21	1.25314e-09	1.00000	1.25326e-09	1.000000
rad30	5.54281e-10	1.00000	5.54333e-10	1.000000
rad13	2.04669e-10	1.00000	2.04688e-10	1.000000
rad2	1.20755e-10	1.00000	1.20767e-10	1.000000
rad3	1.19915e-10	1.00000	1.19926e-10	1.000000
rad4	6.15649e-11	1.00000	6.15707e-11	1.000000
PAH9+H	5.56186e-11	1.00000	5.56239e-11	1.000000
rad35	5.20175e-11	1.00000	5.20224e-11	1.000000
rad15	2.12336e-11	1.00000	2.12356e-11	1.000000
rad24	1.03431e-11	1.00000	1.03441e-11	1.000000
rad1	8.08420e-12	1.00000	8.08496e-12	1.000000
rad38	7.37483e-12	1.00000	7.37552e-12	1.000000
rad10	6.02060e-12	1.00000	6.02116e-12	1.000000
rad25	4.11031e-12	1.00000	4.11069e-12	1.000000
rad28	1.34123e-12	1.00000	1.34135e-12	1.000000
rad33	3.44491e-13	1.00000	3.44523e-13	1.000000
PhCHCCH2+H	8.49038e-14	1.00000	8.49118e-14	1.000000
PhCCH+CH3	3.61833e-14	1.00000	3.61867e-14	1.000000
rad26	1.24606e-14	1.00000	1.24618e-14	1.000000
PhCCCH3+H	2.79397e-15	1.00000	2.79423e-15	1.000000
rad9	1.98897e-15	1.00000	1.98916e-15	1.000000
rad46	1.43271e-15	1.00000	1.43285e-15	1.000000
rad14	7.51475e-16	1.00000	7.51545e-16	1.000000
rad8	4.69179e-16	1.00000	4.69223e-16	1.000000
Ph+Allene	7.47821e-17	1.00000	7.47891e-17	1.000000
rad27	6.23841e-17	1.00000	6.23900e-17	1.000000
Ph+MeAc	4.75413e-17	1.00000	4.75458e-17	1.000000
rad60syn	4.98593e-18	1.00000	4.98640e-18	1.000000
rad60anti	8.01517e-19	1.00000	8.01593e-19	1.000000
PAH7+H	5.71614e-19	1.00000	5.71667e-19	1.000000
PhCH2CCH+H	8.86837e-20	1.00000	8.86921e-20	1.000000
rad39	8.39068e-20	1.00000	8.39147e-20	1.000000
rad31	6.44291e-20	1.00000	6.44352e-20	1.000000
rad12	4.71484e-20	1.00000	4.71528e-20	1.000000
rad37	3.98055e-22	1.00000	3.98093e-22	1.000000
PAH3+H	1.30760e-22	1.00000	1.30772e-22	1.000000
rad59	5.16327e-23	1.00000	5.16375e-23	1.000000
rad5	1.46156e-23	1.00000	1.46170e-23	1.000000
rad50	2.92782e-24	1.00000	2.92810e-24	1.000000
rad19syn	3.50925e-28	1.00000	3.50958e-28	1.000000
rad52	1.33455e-29	1.00000	1.33468e-29	1.000000
rad54	4.37017e-31	1.00000	4.37058e-31	1.000000
PAH10+CH3	3.37169e-31	1.00000	3.37201e-31	1.000000
rad43	8.94639e-32	1.00000	8.94724e-32	1.000000
rad62	2.72116e-33	1.00000	2.72142e-33	1.000000
rad51	4.38351e-35	1.00000	4.38392e-35	1.000000
rad70	6.48029e-37	1.00000	6.48090e-37	1.000000
PhcycC3H3_A+H	4.84056e-37	1.00000	4.84101e-37	1.000000
rad55	2.23489e-37	1.00000	2.23510e-37	1.000000
rad65	8.72538e-39	1.00000	8.72620e-39	1.000000
rad58	2.44566e-40	1.00000	2.44589e-40	1.000000
PAH1+H	2.29993e-40	1.00000	2.30015e-40	1.000000
rad34	4.09251e-42	1.00000	4.09290e-42	1.000000
rad42	6.42804e-45	1.00000	6.42865e-45	1.000000
rad41	2.38492e-45	1.00000	2.38514e-45	1.000000
rad47	4.46550e-46	1.00000	4.46592e-46	1.000000

1.00000000 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.16530e-28 (1.00)	3.16492e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.950435	0.950435	0.950549	0.950549
rad23	0.0476367	0.998072	0.0476425	0.998192
rad45	0.00109767	0.999169	0.00109780	0.999289
rad6	0.000467769	0.999637	0.000467825	0.999757
rad22	0.000150963	0.999788	0.000150981	0.999908
Benzyl+C2H2	0.000120602	0.999909	0.00000	0.999908
rad36	6.84526e-05	0.999977	6.84609e-05	0.999977
rad11	2.31268e-05	1.00000	2.31296e-05	1.000000

rad7	6.72448e-08	1.00000	6.72529e-08	1.000000
rad20	1.68505e-09	1.00000	1.68525e-09	1.000000
rad18	1.37450e-09	1.00000	1.37466e-09	1.000000
rad21	1.06840e-09	1.00000	1.06853e-09	1.000000
rad30	9.07910e-10	1.00000	9.08019e-10	1.000000
rad2	2.30353e-10	1.00000	2.30381e-10	1.000000
rad13	2.25216e-10	1.00000	2.25244e-10	1.000000
rad3	1.66358e-10	1.00000	1.66378e-10	1.000000
PAH9+H	8.66567e-11	1.00000	8.66671e-11	1.000000
rad4	8.55803e-11	1.00000	8.55907e-11	1.000000
rad35	7.68537e-11	1.00000	7.68630e-11	1.000000
rad15	4.19199e-11	1.00000	4.19249e-11	1.000000
rad1	1.55322e-11	1.00000	1.55341e-11	1.000000
rad38	1.24457e-11	1.00000	1.24472e-11	1.000000
rad10	1.22575e-11	1.00000	1.22589e-11	1.000000
rad24	9.61616e-12	1.00000	9.61732e-12	1.000000
rad25	6.21590e-12	1.00000	6.21665e-12	1.000000
rad28	3.03638e-12	1.00000	3.03674e-12	1.000000
rad33	3.81581e-13	1.00000	3.81628e-13	1.000000
PhCHCCH2+H	2.71270e-13	1.00000	2.71302e-13	1.000000
PhCCH+CH3	1.27566e-13	1.00000	1.27581e-13	1.000000
rad26	4.31702e-14	1.00000	4.31754e-14	1.000000
PhCCCH3+H	1.22189e-14	1.00000	1.22204e-14	1.000000
rad9	7.33793e-15	1.00000	7.33881e-15	1.000000
rad46	3.93820e-15	1.00000	3.93868e-15	1.000000
rad8	2.26754e-15	1.00000	2.26781e-15	1.000000
rad14	1.51699e-15	1.00000	1.51717e-15	1.000000
Ph+Allene	4.09585e-16	1.00000	4.09635e-16	1.000000
Ph+MeAc	2.92672e-16	1.00000	2.92708e-16	1.000000
rad27	1.25761e-16	1.00000	1.25776e-16	1.000000
rad60syn	2.39531e-17	1.00000	2.39560e-17	1.000000
rad60anti	4.24754e-18	1.00000	4.24806e-18	1.000000
PAH7+H	3.59164e-18	1.00000	3.59207e-18	1.000000
PhCH2CCH+H	7.35392e-19	1.00000	7.35481e-19	1.000000
rad39	5.76768e-19	1.00000	5.76838e-19	1.000000
rad12	3.35773e-19	1.00000	3.35814e-19	1.000000
rad31	9.73511e-20	1.00000	9.73628e-20	1.000000
rad37	3.90960e-21	1.00000	3.91007e-21	1.000000
PAH3+H	1.31246e-21	1.00000	1.31262e-21	1.000000
rad59	5.03080e-22	1.00000	5.03140e-22	1.000000
rad5	1.53413e-22	1.00000	1.53431e-22	1.000000
rad50	2.82155e-23	1.00000	2.82189e-23	1.000000
rad19syn	1.08789e-26	1.00000	1.08802e-26	1.000000
rad52	3.03325e-28	1.00000	3.03362e-28	1.000000
rad54	6.68921e-29	1.00000	6.69001e-29	1.000000
PAH10+CH3	3.67021e-29	1.00000	3.67065e-29	1.000000
rad43	1.08475e-29	1.00000	1.08488e-29	1.000000
rad62	7.42939e-31	1.00000	7.43028e-31	1.000000
rad51	2.52102e-31	1.00000	2.52132e-31	1.000000
rad70	1.99868e-34	1.00000	1.99892e-34	1.000000
PhcycC3H3_A+H	1.50611e-34	1.00000	1.50630e-34	1.000000
rad55	6.92539e-35	1.00000	6.92622e-35	1.000000
rad65	2.67695e-36	1.00000	2.67727e-36	1.000000
rad58	7.68714e-38	1.00000	7.68807e-38	1.000000
PAH1+H	7.57425e-38	1.00000	7.57516e-38	1.000000
rad34	1.36637e-39	1.00000	1.36654e-39	1.000000
rad42	2.24475e-42	1.00000	2.24502e-42	1.000000
rad41	8.59430e-43	1.00000	8.59534e-43	1.000000
rad47	1.55969e-43	1.00000	1.55988e-43	1.000000

1.00000000 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76088e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.954171	0.954171	0.954318	0.954318
rad23	0.0439510	0.998122	0.0439578	0.998276
rad45	0.00100588	0.999128	0.00100603	0.999282
rad6	0.000515481	0.999643	0.000515561	0.999797
Benzyl+C2H2	0.000153793	0.999797	0.00000	0.999797
rad22	0.000119879	0.999917	0.000119897	0.999917
rad36	6.28639e-05	0.999980	6.28735e-05	0.999980
rad11	1.97753e-05	1.000000	1.97783e-05	1.000000
rad7	7.39119e-08	1.000000	7.39233e-08	1.000000
rad20	1.44435e-09	1.000000	1.44457e-09	1.000000
rad30	1.43556e-09	1.000000	1.43578e-09	1.000000
rad18	1.09423e-09	1.000000	1.09440e-09	1.000000

rad21	9.16379e-10	1.000000	9.16520e-10	1.00000
rad2	4.26379e-10	1.000000	4.26444e-10	1.00000
rad13	2.47811e-10	1.000000	2.47849e-10	1.00000
rad3	2.25939e-10	1.000000	2.25973e-10	1.00000
PAH9+H	1.32920e-10	1.000000	1.32941e-10	1.00000
rad4	1.16485e-10	1.000000	1.16503e-10	1.00000
rad35	1.12277e-10	1.000000	1.12295e-10	1.00000
rad15	7.81611e-11	1.000000	7.81732e-11	1.00000
rad1	2.89741e-11	1.000000	2.89786e-11	1.00000
rad10	2.38967e-11	1.000000	2.39003e-11	1.00000
rad38	2.04802e-11	1.000000	2.04833e-11	1.00000
rad24	8.90237e-12	1.000000	8.90374e-12	1.00000
rad25	8.82857e-12	1.000000	8.82992e-12	1.00000
rad28	6.64288e-12	1.000000	6.64390e-12	1.00000
PhCHCCH2+H	7.90691e-13	1.000000	7.90813e-13	1.00000
rad33	4.22555e-13	1.000000	4.22620e-13	1.00000
PhCCH+CH3	4.18622e-13	1.000000	4.18687e-13	1.00000
rad26	1.39227e-13	1.000000	1.39248e-13	1.00000
PhCCCH3+H	4.86378e-14	1.000000	4.86453e-14	1.00000
rad9	2.40029e-14	1.000000	2.40066e-14	1.00000
rad46	9.94494e-15	1.000000	9.94647e-15	1.00000
rad8	9.41123e-15	1.000000	9.41268e-15	1.00000
rad14	2.84284e-15	1.000000	2.84328e-15	1.00000
Ph+Allene	1.91440e-15	1.000000	1.91470e-15	1.00000
Ph+MeAc	1.56078e-15	1.000000	1.56102e-15	1.00000
rad27	2.42827e-16	1.000000	2.42864e-16	1.00000
rad60syn	9.85458e-17	1.000000	9.85610e-17	1.00000
PAH7+H	2.00230e-17	1.000000	2.00261e-17	1.00000
rad60anti	1.90646e-17	1.000000	1.90676e-17	1.00000
PhCH2CCH+H	5.00387e-18	1.000000	5.00464e-18	1.00000
rad39	3.46405e-18	1.000000	3.46458e-18	1.00000
rad12	2.05639e-18	1.000000	2.05670e-18	1.00000
rad31	1.45239e-19	1.000000	1.45262e-19	1.00000
rad37	3.12201e-20	1.000000	3.12249e-20	1.00000
PAH3+H	1.04749e-20	1.000000	1.04765e-20	1.00000
rad59	3.90291e-21	1.000000	3.90351e-21	1.00000
rad5	1.30086e-21	1.000000	1.30106e-21	1.00000
rad50	2.18251e-22	1.000000	2.18285e-22	1.00000
rad19syn	1.87820e-25	1.000000	1.87849e-25	1.00000
rad52	4.30781e-27	1.000000	4.30848e-27	1.00000
rad54	1.98570e-27	1.000000	1.98601e-27	1.00000
PAH10+CH3	1.12897e-27	1.000000	1.12914e-27	1.00000
rad43	3.24465e-28	1.000000	3.24514e-28	1.00000
rad62	4.55947e-29	1.000000	4.56017e-29	1.00000
rad51	1.42117e-29	1.000000	1.42139e-29	1.00000
rad70	6.43221e-32	1.000000	6.43320e-32	1.00000
PhcycC3H3_A+H	4.88844e-32	1.000000	4.88919e-32	1.00000
rad55	2.23849e-32	1.000000	2.23884e-32	1.00000
rad65	1.65288e-32	1.000000	1.65313e-32	1.00000
PAH1+H	2.59223e-35	1.000000	2.59263e-35	1.00000
rad58	2.55656e-35	1.000000	2.55695e-35	1.00000
rad34	4.75285e-37	1.000000	4.75358e-37	1.00000
rad42	7.29052e-40	1.000000	7.29164e-40	1.00000
rad41	2.56817e-40	1.000000	2.56857e-40	1.00000
rad47	3.91242e-41	1.000000	3.91302e-41	1.00000

1.00000000 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.30956e-27 (1.00)	8.30794e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.957819	0.957819	0.958006	0.958006
rad23	0.0403303	0.998149	0.0403382	0.998344
rad45	0.000917400	0.999067	0.000917579	0.999262
rad6	0.000567825	0.999635	0.000567936	0.999830
Benzyl+C2H2	0.000195256	0.999830	0.00000	0.999830
rad22	9.60612e-05	0.999926	9.60800e-05	0.999926
rad36	5.74812e-05	0.999983	5.74925e-05	0.999983
rad11	1.68322e-05	1.00000	1.68355e-05	1.00000
rad7	8.11764e-08	1.00000	8.11922e-08	1.00000
rad30	2.20327e-09	1.00000	2.20370e-09	1.00000
rad20	1.24460e-09	1.00000	1.24485e-09	1.00000
rad18	8.76929e-10	1.00000	8.77100e-10	1.00000
rad21	7.90235e-10	1.00000	7.90389e-10	1.00000
rad2	7.67346e-10	1.00000	7.67496e-10	1.00000
rad3	3.00730e-10	1.00000	3.00789e-10	1.00000
rad13	2.72685e-10	1.00000	2.72738e-10	1.00000

PAH9+H	2.00859e-10	1.00000	2.00898e-10	1.00000
rad35	1.62176e-10	1.00000	1.62208e-10	1.00000
rad4	1.55414e-10	1.00000	1.55445e-10	1.00000
rad15	1.38848e-10	1.00000	1.38875e-10	1.00000
rad1	5.25856e-11	1.00000	5.25958e-11	1.00000
rad10	4.48076e-11	1.00000	4.48163e-11	1.00000
rad38	3.29398e-11	1.00000	3.29462e-11	1.00000
rad28	1.40928e-11	1.00000	1.40956e-11	1.00000
rad25	1.18786e-11	1.00000	1.18809e-11	1.00000
rad24	8.20513e-12	1.00000	8.20674e-12	1.00000
PhCHCCH2+H	2.13721e-12	1.00000	2.13763e-12	1.00000
PhCCH+CH3	1.29039e-12	1.00000	1.29064e-12	1.00000
rad33	4.67876e-13	1.00000	4.67967e-13	1.00000
rad26	4.19461e-13	1.00000	4.19543e-13	1.00000
PhCCCH3+H	1.77578e-13	1.00000	1.77613e-13	1.00000
rad9	7.08897e-14	1.00000	7.09036e-14	1.00000
rad8	3.42962e-14	1.00000	3.43029e-14	1.00000
rad46	2.33569e-14	1.00000	2.33615e-14	1.00000
Ph+Allene	7.81806e-15	1.00000	7.81959e-15	1.00000
Ph+MeAc	7.33117e-15	1.00000	7.33260e-15	1.00000
rad14	4.99580e-15	1.00000	4.99678e-15	1.00000
rad27	4.51445e-16	1.00000	4.51533e-16	1.00000
rad60syn	3.55185e-16	1.00000	3.55255e-16	1.00000
PAH7+H	1.00207e-16	1.00000	1.00227e-16	1.00000
rad60anti	7.42561e-17	1.00000	7.42706e-17	1.00000
PhCH2CCH+H	2.87664e-17	1.00000	2.87720e-17	1.00000
rad39	1.84420e-17	1.00000	1.84456e-17	1.00000
rad12	1.09852e-17	1.00000	1.09874e-17	1.00000
rad31	2.14469e-19	1.00000	2.14511e-19	1.00000
rad37	2.08301e-19	1.00000	2.08341e-19	1.00000
PAH3+H	6.87722e-20	1.00000	6.87856e-20	1.00000
rad59	2.49334e-20	1.00000	2.49383e-20	1.00000
rad5	9.17694e-21	1.00000	9.17873e-21	1.00000
rad50	1.39965e-21	1.00000	1.39993e-21	1.00000
rad19syn	2.32063e-24	1.00000	2.32108e-24	1.00000
rad52	4.59910e-26	1.00000	4.60000e-26	1.00000
rad54	3.23387e-26	1.00000	3.23450e-26	1.00000
PAH10+CH3	1.88687e-26	1.00000	1.88724e-26	1.00000
rad43	5.24670e-27	1.00000	5.24772e-27	1.00000
rad62	9.66851e-28	1.00000	9.67040e-28	1.00000
rad51	2.69612e-28	1.00000	2.69664e-28	1.00000
rad70	1.53191e-29	1.00000	1.53221e-29	1.00000
PhcycC3H3_A+H	1.10396e-29	1.00000	1.10417e-29	1.00000
rad55	4.18271e-30	1.00000	4.18353e-30	1.00000
rad58	1.86986e-30	1.00000	1.87023e-30	1.00000
rad65	8.66833e-31	1.00000	8.67002e-31	1.00000
PAH1+H	9.41304e-33	1.00000	9.41488e-33	1.00000
rad34	1.77182e-34	1.00000	1.77216e-34	1.00000
rad42	2.38616e-37	1.00000	2.38663e-37	1.00000
rad41	6.82502e-38	1.00000	6.82635e-38	1.00000
rad47	1.07007e-38	1.00000	1.07028e-38	1.00000

1.00000000 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.40057e-26 (1.00)	3.39973e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.961348	0.961348	0.961585	0.961585
rad23	0.0368028	0.998151	0.0368119	0.998397
rad45	0.000832631	0.998983	0.000832836	0.999230
rad6	0.000625274	0.999609	0.000625428	0.999855
Benzyl+C2H2	0.000246762	0.999855	0.00000	0.999855
rad22	7.76017e-05	0.999933	7.76209e-05	0.999933
rad36	5.23263e-05	0.999985	5.23392e-05	0.999985
rad11	1.42655e-05	1.000000	1.42690e-05	0.999999
rad7	8.91020e-08	1.000000	8.91239e-08	0.999999
rad30	3.29658e-09	1.000000	3.29739e-09	0.999999
rad2	1.34507e-09	1.000000	1.34540e-09	0.999999
rad20	1.07765e-09	1.000000	1.07792e-09	0.999999
rad18	7.06946e-10	1.000000	7.07120e-10	0.999999
rad21	6.84807e-10	1.000000	6.84976e-10	0.999999
rad3	3.92851e-10	1.000000	3.92948e-10	0.999999
rad13	3.00085e-10	1.000000	3.00159e-10	0.999999
PAH9+H	2.99208e-10	1.000000	2.99281e-10	0.999999
rad15	2.36657e-10	1.000000	2.36715e-10	0.999999
rad35	2.31609e-10	1.000000	2.31666e-10	0.999999
rad4	2.03549e-10	1.000000	2.03599e-10	0.999999

rad1	9.30220e-11	1.000000	9.30450e-11	0.999999
rad10	8.11094e-11	1.000000	8.11294e-11	0.999999
rad38	5.18834e-11	1.000000	5.18962e-11	0.999999
rad28	2.90649e-11	1.000000	2.90721e-11	0.999999
rad25	1.52477e-11	1.000000	1.52515e-11	0.999999
rad24	7.52824e-12	1.000000	7.53010e-12	0.999999
PhCHCCH2+H	5.43016e-12	1.000000	5.43150e-12	0.999999
PhCCH+CH3	3.76092e-12	1.000000	3.76185e-12	0.999999
rad26	1.18393e-12	1.000000	1.18422e-12	0.999999
PhCCCH3+H	5.98574e-13	1.000000	5.98721e-13	0.999999
rad33	5.18045e-13	1.000000	5.18172e-13	0.999999
rad9	1.91875e-13	1.000000	1.91922e-13	0.999999
rad8	1.11756e-13	1.000000	1.11783e-13	0.999999
rad46	5.15330e-14	1.000000	5.15457e-14	0.999999
Ph+MeAc	3.07566e-14	1.000000	3.07641e-14	0.999999
Ph+Allene	2.84427e-14	1.000000	2.84497e-14	0.999999
rad14	8.30383e-15	1.000000	8.30588e-15	0.999999
rad60syn	1.14255e-15	1.000000	1.14283e-15	0.999999
rad27	8.11480e-16	1.000000	8.11680e-16	0.999999
PAH7+H	4.54376e-16	1.000000	4.54488e-16	0.999999
rad60anti	2.56015e-16	1.000000	2.56079e-16	0.999999
PhCH2CCH+H	1.43087e-16	1.000000	1.43122e-16	0.999999
rad39	8.80434e-17	1.000000	8.80652e-17	0.999999
rad12	5.18378e-17	1.000000	5.18506e-17	0.999999
rad37	1.18749e-18	1.000000	1.18778e-18	0.999999
PAH3+H	3.81685e-19	1.000000	3.81779e-19	0.999999
rad31	3.14350e-19	1.000000	3.14428e-19	0.999999
rad59	1.34771e-19	1.000000	1.34804e-19	0.999999
rad5	5.51567e-20	1.000000	5.51704e-20	0.999999
rad50	7.63865e-21	1.000000	7.64054e-21	0.999999
rad19syn	2.27537e-23	1.000000	2.27593e-23	0.999999
rad52	3.95524e-25	1.000000	3.95622e-25	0.999999
rad54	3.85307e-25	1.000000	3.85402e-25	0.999999
PAH10+CH3	2.28249e-25	1.000000	2.28305e-25	0.999999
rad43	6.19601e-26	1.000000	6.19754e-26	0.999999
rad62	1.31902e-26	1.000000	1.31935e-26	0.999999
rad51	3.42463e-27	1.000000	3.42548e-27	0.999999
rad70	3.53615e-28	1.000000	3.53703e-28	0.999999
PhcycC3H3_A+H	3.17907e-28	1.000000	3.17985e-28	0.999999
rad55	1.05474e-28	1.000000	1.05500e-28	0.999999
rad58	5.55438e-29	1.000000	5.55575e-29	0.999999
rad65	1.51926e-29	1.000000	1.51963e-29	0.999999
PAH1+H	1.35482e-30	1.000000	1.35516e-30	0.999999
rad34	2.18650e-32	1.000000	2.18704e-32	0.999999
rad42	2.81817e-35	1.000000	2.81887e-35	0.999999
rad47	1.46521e-35	1.000000	1.46558e-35	0.999999
rad41	7.04372e-36	1.000000	7.04546e-36	0.999999

1.00000000 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22933e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.964731	0.964731	0.965030	0.965030
rad23	0.0333960	0.998127	0.0334064	0.998436
rad45	0.000751957	0.998879	0.000752191	0.999189
rad6	0.000688318	0.999567	0.000688531	0.999877
Benzyl+C2H2	0.000310387	0.999878	0.00000	0.999877
rad22	6.31374e-05	0.999941	6.31570e-05	0.999940
rad36	4.74204e-05	0.999988	4.74351e-05	0.999988
rad11	1.20416e-05	1.00000	1.20453e-05	1.000000
rad7	9.77541e-08	1.00000	9.77845e-08	1.000000
rad30	4.82490e-09	1.00000	4.82640e-09	1.000000
rad2	2.29965e-09	1.00000	2.30037e-09	1.000000
rad20	9.37244e-10	1.00000	9.37535e-10	1.000000
rad21	5.96147e-10	1.00000	5.96332e-10	1.000000
rad18	5.72936e-10	1.00000	5.73114e-10	1.000000
rad3	5.04525e-10	1.00000	5.04682e-10	1.000000
PAH9+H	4.39641e-10	1.00000	4.39778e-10	1.000000
rad15	3.89218e-10	1.00000	3.89339e-10	1.000000
rad13	3.30269e-10	1.00000	3.30371e-10	1.000000
rad35	3.27083e-10	1.00000	3.27184e-10	1.000000
rad4	2.62150e-10	1.00000	2.62232e-10	1.000000
rad1	1.60619e-10	1.00000	1.60669e-10	1.000000
rad10	1.42179e-10	1.00000	1.42223e-10	1.000000
rad38	8.01639e-11	1.00000	8.01888e-11	1.000000
rad28	5.83754e-11	1.00000	5.83935e-11	1.000000

rad25	1.87832e-11	1.00000	1.87890e-11	1.000000
PhCHCCH2+H	1.31133e-11	1.00000	1.31173e-11	1.000000
PhCCH+CH3	1.04128e-11	1.00000	1.04160e-11	1.000000
rad24	6.87554e-12	1.00000	6.87767e-12	1.000000
rad26	3.13855e-12	1.00000	3.13952e-12	1.000000
PhCCCH3+H	1.87352e-12	1.00000	1.87411e-12	1.000000
rad33	5.73593e-13	1.00000	5.73771e-13	1.000000
rad9	4.81911e-13	1.00000	4.82061e-13	1.000000
rad8	3.30571e-13	1.00000	3.30674e-13	1.000000
Ph+MeAc	1.16617e-13	1.00000	1.16653e-13	1.000000
rad46	1.07689e-13	1.00000	1.07723e-13	1.000000
Ph+Allene	9.36829e-14	1.00000	9.37120e-14	1.000000
rad14	1.31517e-14	1.00000	1.31557e-14	1.000000
rad60syn	3.33072e-15	1.00000	3.33175e-15	1.000000
PAH7+H	1.88078e-15	1.00000	1.88136e-15	1.000000
rad27	1.41486e-15	1.00000	1.41530e-15	1.000000
rad60anti	7.94213e-16	1.00000	7.94459e-16	1.000000
PhCH2CCH+H	6.27957e-16	1.00000	6.28152e-16	1.000000
rad39	3.80490e-16	1.00000	3.80609e-16	1.000000
rad12	2.18536e-16	1.00000	2.18603e-16	1.000000
rad37	5.89269e-18	1.00000	5.89452e-18	1.000000
PAH3+H	1.83102e-18	1.00000	1.83159e-18	1.000000
rad59	6.30207e-19	1.00000	6.30403e-19	1.000000
rad31	4.58729e-19	1.00000	4.58871e-19	1.000000
rad5	2.87960e-19	1.00000	2.88050e-19	1.000000
rad50	3.62411e-20	1.00000	3.62524e-20	1.000000
rad19syn	1.84451e-22	1.00000	1.84508e-22	1.000000
rad54	3.70627e-24	1.00000	3.70742e-24	1.000000
rad52	2.82845e-24	1.00000	2.82933e-24	1.000000
PAH10+CH3	2.21481e-24	1.00000	2.21550e-24	1.000000
rad43	5.86939e-25	1.00000	5.87121e-25	1.000000
rad62	1.41195e-25	1.00000	1.41239e-25	1.000000
rad51	3.44411e-26	1.00000	3.44518e-26	1.000000
PhcycC3H3_A+H	6.33230e-27	1.00000	6.33427e-27	1.000000
rad70	5.68384e-27	1.00000	5.68561e-27	1.000000
rad55	1.86625e-27	1.00000	1.86683e-27	1.000000
rad58	1.01692e-27	1.00000	1.01724e-27	1.000000
rad65	1.96171e-28	1.00000	1.96232e-28	1.000000
PAH1+H	9.13682e-29	1.00000	9.13966e-29	1.000000
rad34	5.71620e-30	1.00000	5.71798e-30	1.000000
rad42	2.49885e-32	1.00000	2.49963e-32	1.000000
rad41	5.16079e-33	1.00000	5.16239e-33	1.000000
rad47	1.98325e-34	1.00000	1.98387e-34	1.000000

1.00000000 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.98936e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.967939	0.967939	0.968315	0.968315
rad23	0.0301346	0.998074	0.0301463	0.998461
rad6	0.000757456	0.998831	0.000757751	0.999219
rad45	0.000675730	0.999507	0.000675993	0.999895
Benzyl+C2H2	0.000388534	0.999895	0.00000	0.999895
rad22	5.16849e-05	0.999947	5.17050e-05	0.999947
rad36	4.27827e-05	0.999990	4.27993e-05	0.999990
rad11	1.01264e-05	1.000000	1.01304e-05	1.000000
rad7	1.07199e-07	1.00000	1.07241e-07	1.000000
rad30	6.92658e-09	1.00000	6.92927e-09	1.000000
rad2	3.83877e-09	1.00000	3.84026e-09	1.000000
rad20	8.18529e-10	1.00000	8.18847e-10	1.000000
rad3	6.38199e-10	1.00000	6.38447e-10	1.000000
PAH9+H	6.37567e-10	1.00000	6.37815e-10	1.000000
rad15	6.20537e-10	1.00000	6.20778e-10	1.000000
rad21	5.21188e-10	1.00000	5.21390e-10	1.000000
rad18	4.66562e-10	1.00000	4.66743e-10	1.000000
rad35	4.56873e-10	1.00000	4.57051e-10	1.000000
rad13	3.63504e-10	1.00000	3.63645e-10	1.000000
rad4	3.32626e-10	1.00000	3.32755e-10	1.000000
rad1	2.70999e-10	1.00000	2.71104e-10	1.000000
rad10	2.41942e-10	1.00000	2.42036e-10	1.000000
rad38	1.21675e-10	1.00000	1.21722e-10	1.000000
rad28	1.14309e-10	1.00000	1.14353e-10	1.000000
PhCHCCH2+H	3.03616e-11	1.00000	3.03734e-11	1.000000
PhCCH+CH3	2.74773e-11	1.00000	2.74880e-11	1.000000
rad25	2.23155e-11	1.00000	2.23241e-11	1.000000
rad26	7.83371e-12	1.00000	7.83675e-12	1.000000

rad24	6.25070e-12	1.00000	6.25313e-12	1.000000
PhCCCH3+H	5.47365e-12	1.00000	5.47578e-12	1.000000
rad9	1.13492e-12	1.00000	1.13536e-12	1.000000
rad8	8.98851e-13	1.00000	8.99200e-13	1.000000
rad33	6.35086e-13	1.00000	6.35333e-13	1.000000
Ph+MeAc	4.03679e-13	1.00000	4.03836e-13	1.000000
Ph+Allene	2.83175e-13	1.00000	2.83285e-13	1.000000
rad46	2.14594e-13	1.00000	2.14677e-13	1.000000
rad14	1.99750e-14	1.00000	1.99827e-14	1.000000
rad60syn	8.91172e-15	1.00000	8.91518e-15	1.000000
PAH7+H	7.15231e-15	1.00000	7.15509e-15	1.000000
PhCH2CCH+H	2.47124e-15	1.00000	2.47220e-15	1.000000
rad27	2.39865e-15	1.00000	2.39958e-15	1.000000
rad60anti	2.24727e-15	1.00000	2.24814e-15	1.000000
rad39	1.50043e-15	1.00000	1.50101e-15	1.000000
rad12	8.31475e-16	1.00000	8.31799e-16	1.000000
rad37	2.58553e-17	1.00000	2.58654e-17	1.000000
PAH3+H	7.73434e-18	1.00000	7.73735e-18	1.000000
rad59	2.59702e-18	1.00000	2.59803e-18	1.000000
rad5	1.32728e-18	1.00000	1.32779e-18	1.000000
rad31	6.68519e-19	1.00000	6.68778e-19	1.000000
rad50	1.52151e-19	1.00000	1.52211e-19	1.000000
rad19syn	1.26168e-21	1.00000	1.26217e-21	1.000000
rad54	2.91841e-23	1.00000	2.91954e-23	1.000000
PAH10+CH3	1.75400e-23	1.00000	1.75468e-23	1.000000
rad52	1.72103e-23	1.00000	1.72170e-23	1.000000
rad43	4.55697e-24	1.00000	4.55874e-24	1.000000
rad62	1.19987e-24	1.00000	1.20034e-24	1.000000
rad51	2.78812e-25	1.00000	2.78920e-25	1.000000
PhcycC3H3_A+H	7.59172e-26	1.00000	7.59467e-26	1.000000
rad70	6.07923e-26	1.00000	6.08159e-26	1.000000
rad55	2.10643e-26	1.00000	2.10725e-26	1.000000
rad58	1.13217e-26	1.00000	1.13261e-26	1.000000
rad65	1.86067e-27	1.00000	1.86140e-27	1.000000
PAH1+H	1.61486e-27	1.00000	1.61549e-27	1.000000
rad34	1.17584e-28	1.00000	1.17630e-28	1.000000
rad42	1.46486e-30	1.00000	1.46543e-30	1.000000
rad41	4.24175e-31	1.00000	4.24340e-31	1.000000
rad47	1.84275e-33	1.00000	1.84347e-33	1.000000

1.00000000 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17706e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.970949	0.970949	0.971419	0.971419
rad23	0.0270403	0.997989	0.0270534	0.998472
rad6	0.000833198	0.998822	0.000833602	0.999306
rad45	0.000604241	0.999427	0.000604534	0.999911
Benzyl+C2H2	0.000483972	0.999911	0.00000	0.999911
rad22	4.25285e-05	0.999953	4.25491e-05	0.999953
rad36	3.84290e-05	0.999992	3.84476e-05	0.999992
rad11	8.48673e-06	1.00000	8.49084e-06	1.00000
rad7	1.17505e-07	1.00000	1.17562e-07	1.00000
rad30	9.77454e-09	1.00000	9.77927e-09	1.00000
rad2	6.26090e-09	1.00000	6.26394e-09	1.00000
rad15	9.62683e-10	1.00000	9.63149e-10	1.00000
PAH9+H	9.13087e-10	1.00000	9.13529e-10	1.00000
rad3	7.96718e-10	1.00000	7.97104e-10	1.00000
rad20	7.17691e-10	1.00000	7.18039e-10	1.00000
rad35	6.31399e-10	1.00000	6.31705e-10	1.00000
rad21	4.57521e-10	1.00000	4.57742e-10	1.00000
rad1	4.47115e-10	1.00000	4.47332e-10	1.00000
rad4	4.16627e-10	1.00000	4.16829e-10	1.00000
rad10	4.00424e-10	1.00000	4.00618e-10	1.00000
rad13	4.00069e-10	1.00000	4.00263e-10	1.00000
rad18	3.81614e-10	1.00000	3.81798e-10	1.00000
rad28	2.18378e-10	1.00000	2.18484e-10	1.00000
rad38	1.81656e-10	1.00000	1.81744e-10	1.00000
PhCCH+CH3	6.92767e-11	1.00000	6.93103e-11	1.00000
PhCHCCH2+H	6.78377e-11	1.00000	6.78705e-11	1.00000
rad25	2.56764e-11	1.00000	2.56888e-11	1.00000
rad26	1.84558e-11	1.00000	1.84648e-11	1.00000
PhCCCH3+H	1.49988e-11	1.00000	1.50061e-11	1.00000
rad24	5.65703e-12	1.00000	5.65977e-12	1.00000
rad9	2.52841e-12	1.00000	2.52963e-12	1.00000
rad8	2.27041e-12	1.00000	2.27151e-12	1.00000

Ph+MeAc	1.28692e-12	1.00000	1.28755e-12	1.00000
Ph+Allene	7.94556e-13	1.00000	7.94940e-13	1.00000
rad33	7.03122e-13	1.00000	7.03463e-13	1.00000
rad46	4.10071e-13	1.00000	4.10269e-13	1.00000
rad14	2.92554e-14	1.00000	2.92695e-14	1.00000
PAH7+H	2.51303e-14	1.00000	2.51425e-14	1.00000
rad60syn	2.21188e-14	1.00000	2.21295e-14	1.00000
PhCH2CCH+H	8.83943e-15	1.00000	8.84371e-15	1.00000
rad60anti	5.86643e-15	1.00000	5.86927e-15	1.00000
rad39	5.43660e-15	1.00000	5.43923e-15	1.00000
rad27	3.96099e-15	1.00000	3.96290e-15	1.00000
rad12	2.88135e-15	1.00000	2.88274e-15	1.00000
rad37	1.01655e-16	1.00000	1.01704e-16	1.00000
PAH3+H	2.92175e-17	1.00000	2.92317e-17	1.00000
rad59	9.57865e-18	1.00000	9.58329e-18	1.00000
rad5	5.47601e-18	1.00000	5.47866e-18	1.00000
rad31	9.75675e-19	1.00000	9.76147e-19	1.00000
rad50	5.73722e-19	1.00000	5.74000e-19	1.00000
rad19syn	7.44940e-21	1.00000	7.45301e-21	1.00000
rad54	1.94714e-22	1.00000	1.94808e-22	1.00000
PAH10+CH3	1.17553e-22	1.00000	1.17610e-22	1.00000
rad52	9.09591e-23	1.00000	9.10031e-23	1.00000
rad43	3.00016e-23	1.00000	3.00161e-23	1.00000
rad62	8.51506e-24	1.00000	8.51918e-24	1.00000
rad51	1.89570e-24	1.00000	1.89662e-24	1.00000
PhcycC3H3_A+H	6.59594e-25	1.00000	6.59913e-25	1.00000
rad70	5.01203e-25	1.00000	5.01446e-25	1.00000
rad55	1.78498e-25	1.00000	1.78584e-25	1.00000
rad58	9.46814e-26	1.00000	9.47272e-26	1.00000
PAH1+H	1.56414e-26	1.00000	1.56489e-26	1.00000
rad65	1.42225e-26	1.00000	1.42294e-26	1.00000
rad34	1.16129e-27	1.00000	1.16185e-27	1.00000
rad42	1.56318e-29	1.00000	1.56393e-29	1.00000
rad41	4.56175e-30	1.00000	4.56396e-30	1.00000
rad47	1.41189e-32	1.00000	1.41258e-32	1.00000

1.00000000 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19260e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.973739	0.973739	0.974324	0.974324
rad23	0.0241304	0.997869	0.0241449	0.998469
rad6	0.000916053	0.998785	0.000916603	0.999386
Benzyl+C2H2	0.000599865	0.999385	0.00000	0.999386
rad45	0.000537703	0.999923	0.000538026	0.999924
rad22	3.51422e-05	0.999958	3.51633e-05	0.999959
rad36	3.43708e-05	0.999993	3.43915e-05	0.999993
rad11	7.09048e-06	1.000000	7.09473e-06	1.000000
rad7	1.28737e-07	1.000000	1.28815e-07	1.000000
rad30	1.35826e-08	1.000000	1.35908e-08	1.000000
rad2	9.98147e-09	1.000000	9.98746e-09	1.000000
rad15	1.45779e-09	1.000000	1.45866e-09	1.000000
PAH9+H	1.29215e-09	1.000000	1.29292e-09	1.000000
rad3	9.83540e-10	1.000000	9.84131e-10	1.000000
rad35	8.63654e-10	1.000000	8.64172e-10	1.000000
rad1	7.21724e-10	1.000000	7.22157e-10	1.000000
rad10	6.45497e-10	1.000000	6.45885e-10	1.000000
rad20	6.31696e-10	1.000000	6.32075e-10	1.000000
rad4	5.16176e-10	1.000000	5.16485e-10	1.000000
rad13	4.40250e-10	1.000000	4.40515e-10	1.000000
rad28	4.07156e-10	1.000000	4.07400e-10	1.000000
rad21	4.03229e-10	1.000000	4.03471e-10	1.000000
rad18	3.13411e-10	1.000000	3.13599e-10	1.000000
rad38	2.67068e-10	1.000000	2.67228e-10	1.000000
PhCCH+CH3	1.67212e-10	1.000000	1.67312e-10	1.000000
PhCHCCH2+H	1.46921e-10	1.000000	1.47009e-10	1.000000
rad26	4.11488e-11	1.000000	4.11735e-11	1.000000
PhCCCH3+H	3.87201e-11	1.000000	3.87433e-11	1.000000
rad25	2.87150e-11	1.000000	2.87322e-11	1.000000
rad8	5.37480e-12	1.000000	5.37802e-12	1.000000
rad9	5.36887e-12	1.000000	5.37209e-12	1.000000
rad24	5.09725e-12	1.000000	5.10031e-12	1.000000
Ph+MeAc	3.80723e-12	1.000000	3.80952e-12	1.000000
Ph+Allene	2.08966e-12	1.000000	2.09092e-12	1.000000
rad33	7.78331e-13	1.000000	7.78798e-13	1.000000
rad46	7.54992e-13	1.000000	7.55445e-13	1.000000

PAH7+H	8.20021e-14	1.000000	8.20513e-14	1.00000
rad60syn	5.13841e-14	1.000000	5.14150e-14	1.00000
rad14	4.15182e-14	1.000000	4.15431e-14	1.00000
PhCH2CCH+H	2.90650e-14	1.000000	2.90824e-14	1.00000
rad39	1.82124e-14	1.000000	1.82233e-14	1.00000
rad60anti	1.42649e-14	1.000000	1.42735e-14	1.00000
rad12	9.16907e-15	1.000000	9.17458e-15	1.00000
rad27	6.37943e-15	1.000000	6.38326e-15	1.00000
rad37	3.62236e-16	1.000000	3.62453e-16	1.00000
PAH3+H	1.00011e-16	1.000000	1.00071e-16	1.00000
rad59	3.20369e-17	1.000000	3.20562e-17	1.00000
rad5	2.04600e-17	1.000000	2.04723e-17	1.00000
rad50	1.96755e-18	1.000000	1.96873e-18	1.00000
rad31	1.42939e-18	1.000000	1.43025e-18	1.00000
rad19syn	3.86261e-20	1.000000	3.86493e-20	1.00000
rad54	1.12686e-21	1.000000	1.12754e-21	1.00000
PAH10+CH3	6.81892e-22	1.000000	6.82302e-22	1.00000
rad52	4.24613e-22	1.000000	4.24868e-22	1.00000
rad43	1.71077e-22	1.000000	1.71179e-22	1.00000
rad62	5.19476e-23	1.000000	5.19788e-23	1.00000
rad51	1.11308e-23	1.000000	1.11375e-23	1.00000
PhcycC3H3_A+H	4.78189e-24	1.000000	4.78476e-24	1.00000
rad70	3.47755e-24	1.000000	3.47964e-24	1.00000
rad55	1.26787e-24	1.000000	1.26863e-24	1.00000
rad58	6.63256e-25	1.000000	6.63654e-25	1.00000
PAH1+H	1.23245e-25	1.000000	1.23319e-25	1.00000
rad65	9.24403e-26	1.000000	9.24958e-26	1.00000
rad34	9.26766e-27	1.000000	9.27322e-27	1.00000
rad42	1.31869e-28	1.000000	1.31949e-28	1.00000
rad41	3.87683e-29	1.000000	3.87915e-29	1.00000
rad47	9.11713e-32	1.000000	9.12261e-32	1.00000

1.00000000 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.03546e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.976294	0.976294	0.977016	0.977016
rad23	0.0214180	0.997712	0.0214338	0.998450
rad6	0.00100653	0.998719	0.00100727	0.999457
Benzyl+C2H2	0.000739801	0.999458	0.000000	0.999457
rad45	0.000476246	0.999935	0.000476599	0.999934
rad36	3.06149e-05	0.999965	3.06376e-05	0.999964
rad22	2.91361e-05	0.999994	2.91577e-05	0.999993
rad11	5.90761e-06	1.00000	5.91198e-06	0.999999
rad7	1.40963e-07	1.00000	1.41067e-07	1.000000
rad30	1.86125e-08	1.00000	1.86263e-08	1.000000
rad2	1.55594e-08	1.00000	1.55710e-08	1.000000
rad15	2.16035e-09	1.00000	2.16194e-09	1.000000
PAH9+H	1.80789e-09	1.00000	1.80923e-09	1.000000
rad3	1.20298e-09	1.00000	1.20387e-09	1.000000
rad35	1.16970e-09	1.00000	1.17056e-09	1.000000
rad1	1.14017e-09	1.00000	1.14101e-09	1.000000
rad10	1.01465e-09	1.00000	1.01541e-09	1.000000
rad28	7.40910e-10	1.00000	7.41459e-10	1.000000
rad4	6.33793e-10	1.00000	6.34263e-10	1.000000
rad20	5.58105e-10	1.00000	5.58518e-10	1.000000
rad13	4.84341e-10	1.00000	4.84700e-10	1.000000
PhCCH+CH3	3.87059e-10	1.00000	3.87345e-10	1.000000
rad38	3.87046e-10	1.00000	3.87333e-10	1.000000
rad21	3.56773e-10	1.00000	3.57038e-10	1.000000
PhCHCCH2+H	3.09291e-10	1.00000	3.09520e-10	1.000000
rad18	2.58391e-10	1.00000	2.58582e-10	1.000000
PhCCCH3+H	9.45624e-11	1.00000	9.46324e-11	1.000000
rad26	8.70566e-11	1.00000	8.71211e-11	1.000000
rad25	3.13089e-11	1.00000	3.13320e-11	1.000000
rad8	1.20145e-11	1.00000	1.20234e-11	1.000000
rad9	1.09359e-11	1.00000	1.09440e-11	1.000000
Ph+MeAc	1.05218e-11	1.00000	1.05295e-11	1.000000
Ph+Allene	5.19366e-12	1.00000	5.19750e-12	1.000000
rad24	4.57346e-12	1.00000	4.57685e-12	1.000000
rad46	1.34458e-12	1.00000	1.34558e-12	1.000000
rad33	8.61373e-13	1.00000	8.62011e-13	1.000000
PAH7+H	2.49686e-13	1.00000	2.49871e-13	1.000000
rad60syn	1.12580e-13	1.00000	1.12663e-13	1.000000
PhCH2CCH+H	8.86883e-14	1.00000	8.87540e-14	1.000000
rad14	5.73339e-14	1.00000	5.73764e-14	1.000000

rad39	5.67228e-14	1.00000	5.67648e-14	1.000000
rad60anti	3.25754e-14	1.00000	3.25995e-14	1.000000
rad12	2.69924e-14	1.00000	2.70124e-14	1.000000
rad27	1.00302e-14	1.00000	1.00376e-14	1.000000
rad37	1.18140e-15	1.00000	1.18228e-15	1.000000
PAH3+H	3.13665e-16	1.00000	3.13897e-16	1.000000
rad59	9.82508e-17	1.00000	9.83235e-17	1.000000
rad5	6.99215e-17	1.00000	6.99733e-17	1.000000
rad50	6.20263e-18	1.00000	6.20723e-18	1.000000
rad31	2.10573e-18	1.00000	2.10729e-18	1.000000
rad19syn	1.78348e-19	1.00000	1.78480e-19	1.000000
rad54	5.74850e-21	1.00000	5.75276e-21	1.000000
PAH10+CH3	3.47895e-21	1.00000	3.48153e-21	1.000000
rad52	1.77550e-21	1.00000	1.77681e-21	1.000000
rad43	8.58428e-22	1.00000	8.59064e-22	1.000000
rad62	2.77336e-22	1.00000	2.77542e-22	1.000000
rad51	5.74445e-23	1.00000	5.74870e-23	1.000000
PhcycC3H3_A+H	2.98739e-23	1.00000	2.98960e-23	1.000000
rad70	2.08589e-23	1.00000	2.08744e-23	1.000000
rad55	7.77202e-24	1.00000	7.77778e-24	1.000000
rad58	4.00918e-24	1.00000	4.01215e-24	1.000000
PAH1+H	8.30554e-25	1.00000	8.31169e-25	1.000000
rad65	5.22534e-25	1.00000	5.22920e-25	1.000000
rad34	6.32142e-26	1.00000	6.32610e-26	1.000000
rad42	9.51647e-28	1.00000	9.52351e-28	1.000000
rad41	2.82144e-28	1.00000	2.82353e-28	1.000000
rad47	5.06445e-31	1.00000	5.06820e-31	1.000000

1.00000000 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89185e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.978600	0.978600	0.979489	0.979489
rad23	0.00189111	0.997511	0.00189283	0.998417
rad6	0.00110512	0.998616	0.00110613	0.999523
Benzyl+C2H2	0.000907824	0.999524	0.000000	0.999523
rad45	0.000419911	0.999944	0.000420292	0.999944
rad36	2.71630e-05	0.999971	2.71877e-05	0.999971
rad22	2.42181e-05	0.999995	2.42401e-05	0.999995
rad11	4.91035e-06	1.00000	4.91481e-06	1.00000
rad7	1.54246e-07	1.00000	1.54386e-07	1.00000
rad30	2.51811e-08	1.00000	2.52040e-08	1.00000
rad2	2.37210e-08	1.00000	2.37426e-08	1.00000
rad15	3.13984e-09	1.00000	3.14270e-09	1.00000
PAH9+H	2.50230e-09	1.00000	2.50457e-09	1.00000
rad1	1.76331e-09	1.00000	1.76491e-09	1.00000
rad35	1.56921e-09	1.00000	1.57064e-09	1.00000
rad10	1.55659e-09	1.00000	1.55801e-09	1.00000
rad3	1.46041e-09	1.00000	1.46174e-09	1.00000
rad28	1.31582e-09	1.00000	1.31702e-09	1.00000
PhCCH+CH3	8.60688e-10	1.00000	8.61470e-10	1.00000
rad4	7.72644e-10	1.00000	7.73346e-10	1.00000
PhCHCCH2+H	6.33829e-10	1.00000	6.34405e-10	1.00000
rad38	5.53446e-10	1.00000	5.53949e-10	1.00000
rad13	5.32639e-10	1.00000	5.33123e-10	1.00000
rad20	4.94940e-10	1.00000	4.95389e-10	1.00000
rad21	3.16905e-10	1.00000	3.17193e-10	1.00000
PhCCCH3+H	2.19321e-10	1.00000	2.19520e-10	1.00000
rad18	2.13812e-10	1.00000	2.14006e-10	1.00000
rad26	1.75247e-10	1.00000	1.75406e-10	1.00000
rad25	3.33710e-11	1.00000	3.34013e-11	1.00000
Ph+MeAc	2.73223e-11	1.00000	2.73471e-11	1.00000
rad8	2.55209e-11	1.00000	2.55441e-11	1.00000
rad9	2.14849e-11	1.00000	2.15044e-11	1.00000
Ph+Allene	1.22833e-11	1.00000	1.22945e-11	1.00000
rad24	4.08702e-12	1.00000	4.09074e-12	1.00000
rad46	2.32410e-12	1.00000	2.32621e-12	1.00000
rad33	9.52940e-13	1.00000	9.53806e-13	1.00000
PAH7+H	7.12583e-13	1.00000	7.13231e-13	1.00000
PhCH2CCH+H	2.53140e-13	1.00000	2.53370e-13	1.00000
rad60syn	2.34134e-13	1.00000	2.34347e-13	1.00000
rad39	1.65089e-13	1.00000	1.65239e-13	1.00000
rad14	7.73230e-14	1.00000	7.73932e-14	1.00000
rad12	7.39978e-14	1.00000	7.40650e-14	1.00000
rad60anti	7.03492e-14	1.00000	7.04131e-14	1.00000
rad27	1.54064e-14	1.00000	1.54204e-14	1.00000

rad37	3.55652e-15	1.00000	3.55975e-15	1.00000
PAH3+H	9.09966e-16	1.00000	9.10792e-16	1.00000
rad59	2.78917e-16	1.00000	2.79170e-16	1.00000
rad5	2.20438e-16	1.00000	2.20639e-16	1.00000
rad50	1.81381e-17	1.00000	1.81545e-17	1.00000
rad31	3.12255e-18	1.00000	3.12539e-18	1.00000
rad19syn	7.41602e-19	1.00000	7.42276e-19	1.00000
rad54	2.61575e-20	1.00000	2.61812e-20	1.00000
PAH10+CH3	1.58035e-20	1.00000	1.58178e-20	1.00000
rad52	6.72823e-21	1.00000	6.73435e-21	1.00000
rad43	3.83777e-21	1.00000	3.84126e-21	1.00000
rad62	1.31211e-21	1.00000	1.31330e-21	1.00000
rad51	2.63825e-22	1.00000	2.64065e-22	1.00000
PhcycC3H3_A+H	1.62619e-22	1.00000	1.62767e-22	1.00000
rad70	1.09483e-22	1.00000	1.09583e-22	1.00000
rad55	4.15995e-23	1.00000	4.16373e-23	1.00000
rad58	2.11646e-23	1.00000	2.11838e-23	1.00000
PAH1+H	4.82650e-24	1.00000	4.83088e-24	1.00000
rad65	2.60123e-24	1.00000	2.60359e-24	1.00000
rad34	3.71069e-25	1.00000	3.71407e-25	1.00000
rad42	5.86673e-27	1.00000	5.87206e-27	1.00000
rad41	1.75225e-27	1.00000	1.75384e-27	1.00000
rad47	2.45968e-30	1.00000	2.46192e-30	1.00000

1.00000000 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.19550e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.980648	0.980648	0.981737	0.981737
rad23	0.0166136	0.997262	0.0166320	0.998369
rad6	0.00121231	0.998474	0.00121366	0.999583
Benzyl+C2H2	0.00110846	0.999582	0.000000	0.999583
rad45	0.000368652	0.999951	0.000369061	0.999952
rad36	2.40121e-05	0.999975	2.40388e-05	0.999976
rad22	2.01673e-05	0.999995	2.01897e-05	0.999996
rad11	4.07339e-06	0.999999	4.07791e-06	1.000000
rad7	1.68649e-07	0.999999	1.68836e-07	1.000000
rad2	3.53762e-08	0.999999	3.54155e-08	1.000000
rad30	3.36686e-08	1.000000	3.37060e-08	1.000000
rad15	4.48372e-09	1.000000	4.48869e-09	1.000000
PAH9+H	3.42799e-09	1.000000	3.43179e-09	1.000000
rad1	2.67031e-09	1.000000	2.67327e-09	1.000000
rad10	2.33234e-09	1.000000	2.33493e-09	1.000000
rad28	2.28037e-09	1.000000	2.28290e-09	1.000000
rad35	2.08614e-09	1.000000	2.08845e-09	1.000000
PhCCH+CH3	1.84160e-09	1.000000	1.84364e-09	1.000000
rad3	1.76249e-09	1.000000	1.76444e-09	1.000000
PhCHCCH2+H	1.26530e-09	1.000000	1.26671e-09	1.000000
rad4	9.36649e-10	1.000000	9.37689e-10	1.000000
rad38	7.81493e-10	1.000000	7.82360e-10	1.000000
rad13	5.85445e-10	1.000000	5.86095e-10	1.000000
PhCCCH3+H	4.84807e-10	1.000000	4.85345e-10	1.000000
rad20	4.40583e-10	1.000000	4.41071e-10	1.000000
rad26	3.36575e-10	1.000000	3.36948e-10	1.000000
rad21	2.82604e-10	1.000000	2.82918e-10	1.000000
rad18	1.77551e-10	1.000000	1.77748e-10	1.000000
Ph+MeAc	6.70076e-11	1.000000	6.70820e-11	1.000000
rad8	5.17933e-11	1.000000	5.18508e-11	1.000000
rad9	4.08993e-11	1.000000	4.09447e-11	1.000000
rad25	3.48519e-11	1.000000	3.48906e-11	1.000000
Ph+Allene	2.78039e-11	1.000000	2.78347e-11	1.000000
rad46	3.91011e-12	1.000000	3.91445e-12	1.000000
rad24	3.63860e-12	1.000000	3.64264e-12	1.000000
PAH7+H	1.91406e-12	1.000000	1.91618e-12	1.000000
rad33	1.05375e-12	1.000000	1.05492e-12	1.000000
PhCH2CCH+H	6.80362e-13	1.000000	6.81117e-13	1.000000
rad60syn	4.64783e-13	1.000000	4.65299e-13	1.000000
rad39	4.51109e-13	1.000000	4.51610e-13	1.000000
rad12	1.90035e-13	1.000000	1.90246e-13	1.000000
rad60anti	1.44534e-13	1.000000	1.44695e-13	1.000000
rad14	1.02161e-13	1.000000	1.02275e-13	1.000000
rad27	2.31322e-14	1.000000	2.31579e-14	1.000000
rad37	9.95569e-15	1.000000	9.96674e-15	1.000000
PAH3+H	2.46184e-15	1.000000	2.46458e-15	1.000000
rad59	7.38914e-16	1.000000	7.39734e-16	1.000000
rad5	6.45849e-16	1.000000	6.46566e-16	1.000000

rad50	4.95844e-17	1.000000	4.96394e-17	1.00000
rad31	4.66270e-18	1.000000	4.66787e-18	1.00000
rad19syn	2.80416e-18	1.000000	2.80727e-18	1.00000
rad54	1.07291e-19	1.000000	1.07410e-19	1.00000
PAH10+CH3	6.46156e-20	1.000000	6.46873e-20	1.00000
rad52	2.33377e-20	1.000000	2.33636e-20	1.00000
rad43	1.54545e-20	1.000000	1.54717e-20	1.00000
rad62	5.56394e-21	1.000000	5.57012e-21	1.00000
rad51	1.09029e-21	1.000000	1.09150e-21	1.00000
PhcycC3H3_A+H	7.81590e-22	1.000000	7.82457e-22	1.00000
rad70	5.09312e-22	1.000000	5.09877e-22	1.00000
rad55	1.96955e-22	1.000000	1.97173e-22	1.00000
rad58	9.88697e-23	1.000000	9.89794e-23	1.00000
PAH1+H	2.45528e-23	1.000000	2.45801e-23	1.00000
rad65	1.15432e-23	1.000000	1.15560e-23	1.00000
rad34	1.90383e-24	1.000000	1.90594e-24	1.00000
rad42	3.14330e-26	1.000000	3.14679e-26	1.00000
rad41	9.45088e-27	1.000000	9.46137e-27	1.00000
rad47	1.05937e-29	1.000000	1.06055e-29	1.00000

1.00000000 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17545e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.984468	0.984468	0.986104	0.986104
rad23	0.0122764	0.996744	0.0122968	0.998401
Benzyl+C2H2	0.00165847	0.998403	0.00000	0.998401
rad6	0.00122779	0.999631	0.00122983	0.999631
rad45	0.000311685	0.999942	0.000312203	0.999943
rad22	4.26565e-05	0.999985	4.27274e-05	0.999986
rad36	1.06231e-05	0.999996	1.06408e-05	0.999996
rad11	3.74022e-06	0.999999	3.74643e-06	1.000000
rad7	1.71510e-07	1.000000	1.71795e-07	1.00000
rad2	7.09793e-08	1.000000	7.10972e-08	1.00000
rad30	3.74022e-08	1.000000	3.74644e-08	1.00000
rad20	1.69967e-08	1.000000	1.70249e-08	1.00000
PhCCH+CH3	1.41170e-08	1.000000	1.41405e-08	1.00000
rad21	1.08229e-08	1.000000	1.08409e-08	1.00000
rad28	7.72341e-09	1.000000	7.73624e-09	1.00000
rad18	7.20680e-09	1.000000	7.21877e-09	1.00000
PhCHCCH2+H	6.73183e-09	1.000000	6.74301e-09	1.00000
PAH9+H	5.40559e-09	1.000000	5.41457e-09	1.00000
rad1	5.34857e-09	1.000000	5.35745e-09	1.00000
rad10	4.51068e-09	1.000000	4.51818e-09	1.00000
PhCCCH3+H	4.11476e-09	1.000000	4.12159e-09	1.00000
rad35	2.66287e-09	1.000000	2.66730e-09	1.00000
rad3	2.17730e-09	1.000000	2.18092e-09	1.00000
rad26	1.46806e-09	1.000000	1.47050e-09	1.00000
rad4	1.08278e-09	1.000000	1.08458e-09	1.00000
rad38	1.01994e-09	1.000000	1.02163e-09	1.00000
Ph+MeAc	7.33274e-10	1.000000	7.34492e-10	1.00000
rad13	6.80229e-10	1.000000	6.81359e-10	1.00000
rad9	3.63829e-10	1.000000	3.64433e-10	1.00000
Ph+Allene	8.98573e-11	1.000000	9.00066e-11	1.00000
PAH7+H	3.39555e-11	1.000000	3.40119e-11	1.00000
rad25	2.89372e-11	1.000000	2.89852e-11	1.00000
rad19anti	9.64140e-12	1.000000	9.65742e-12	1.00000
rad39	7.06098e-12	1.000000	7.07271e-12	1.00000
rad46	5.95478e-12	1.000000	5.96467e-12	1.00000
PhCH2CCH+H	5.19187e-12	1.000000	5.20050e-12	1.00000
rad24	3.74465e-12	1.000000	3.75087e-12	1.00000
rad33	1.51740e-12	1.000000	1.51992e-12	1.00000
rad60syn	7.05139e-13	1.000000	7.06311e-13	1.00000
rad15	2.22981e-13	1.000000	2.23351e-13	1.00000
rad60anti	2.12403e-13	1.000000	2.12755e-13	1.00000
rad37	1.79898e-13	1.000000	1.80197e-13	1.00000
rad14	1.66496e-13	1.000000	1.66773e-13	1.00000
rad27	6.06501e-14	1.000000	6.07508e-14	1.00000
PAH3+H	6.25733e-15	1.000000	6.26773e-15	1.00000
rad59	1.44753e-15	1.000000	1.44994e-15	1.00000
rad50	1.20627e-16	1.000000	1.20828e-16	1.00000
rad19syn	7.48791e-17	1.000000	7.50034e-17	1.00000
rad31	2.04861e-17	1.000000	2.05202e-17	1.00000
rad12	3.77765e-18	1.000000	3.78393e-18	1.00000
rad54	3.45043e-18	1.000000	3.45616e-18	1.00000
PAH10+CH3	2.57488e-18	1.000000	2.57916e-18	1.00000

rad67	1.29498e-18	1.000000	1.29713e-18	1.00000
rad43	4.98864e-19	1.000000	4.99693e-19	1.00000
rad5	4.93428e-19	1.000000	4.94248e-19	1.00000
rad62	1.86582e-19	1.000000	1.86892e-19	1.00000
rad52	8.82353e-20	1.000000	8.83819e-20	1.00000
PhcycC3H3_A+H	4.19456e-20	1.000000	4.20153e-20	1.00000
rad70	1.67419e-20	1.000000	1.67697e-20	1.00000
rad55	7.55169e-21	1.000000	7.56424e-21	1.00000
rad51	6.57367e-21	1.000000	6.58459e-21	1.00000
PAH1+H	1.65789e-21	1.000000	1.66065e-21	1.00000
rad58	3.78946e-22	1.000000	3.79576e-22	1.00000
rad65	9.33373e-23	1.000000	9.34923e-23	1.00000
rad34	9.24224e-23	1.000000	9.25759e-23	1.00000
rad42	2.64519e-24	1.000000	2.64958e-24	1.00000
rad41	9.26131e-25	1.000000	9.27669e-25	1.00000
rad53	1.99855e-26	1.000000	2.00187e-26	1.00000
rad64	3.81772e-27	1.000000	3.82406e-27	1.00000
rad47	4.24963e-29	1.000000	4.25669e-29	1.00000
rad56	2.30370e-29	1.000000	2.30753e-29	1.00000
rad61	7.96370e-30	1.000000	7.97693e-30	1.00000
rad73	6.09322e-30	1.000000	6.10334e-30	1.00000
rad68syn	2.48108e-30	1.000000	2.48520e-30	1.00000
rad68anti	1.76340e-30	1.000000	1.76633e-30	1.00000
rad71	2.32598e-31	1.000000	2.32985e-31	1.00000
rad40syn	1.24021e-32	1.000000	1.24227e-32	1.00000
PAH8+H	8.04064e-33	1.000000	8.05400e-33	1.00000
rad40anti	4.85411e-33	1.000000	4.86217e-33	1.00000
rad72	4.02128e-37	1.000000	4.02796e-37	1.00000
rad8	1.53766e-40	1.000000	1.54022e-40	1.00000

1.00000000 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.44453e-22 (1.00)	2.44055e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.983960	0.983960	0.985565	0.985565
rad23	0.0126405	0.996601	0.0126611	0.998226
Benzyl+C2H2	0.00162814	0.998229	0.00000	0.998226
rad6	0.00145428	0.999683	0.00145665	0.999683
rad45	0.000280815	0.999964	0.000281273	0.999964
rad36	1.85803e-05	0.999982	1.86106e-05	0.999983
rad22	1.40296e-05	0.999996	1.40525e-05	0.999997
rad11	2.79199e-06	0.999999	2.79654e-06	0.999999
rad7	2.01039e-07	0.999999	2.01367e-07	1.000000
rad2	7.37385e-08	0.999999	7.38588e-08	1.000000
rad30	5.82878e-08	0.999999	5.83829e-08	1.000000
rad15	8.72402e-09	0.999999	8.73825e-09	1.000000
PhCCH+CH3	7.56160e-09	0.999999	7.57393e-09	1.000000
rad28	6.36266e-09	0.999999	6.37304e-09	1.000000
PAH9+H	6.25049e-09	0.999999	6.26068e-09	1.000000
rad1	5.75706e-09	1.000000	5.76645e-09	1.000000
rad10	4.89189e-09	1.000000	4.89986e-09	1.000000
PhCHCCH2+H	4.66486e-09	1.000000	4.67247e-09	1.000000
rad35	3.59358e-09	1.000000	3.59944e-09	1.000000
rad3	2.53393e-09	1.000000	2.53806e-09	1.000000
PhCCCH3+H	2.07746e-09	1.000000	2.08085e-09	1.000000
rad38	1.50498e-09	1.000000	1.50743e-09	1.000000
rad4	1.36002e-09	1.000000	1.36223e-09	1.000000
rad26	1.08972e-09	1.000000	1.09149e-09	1.000000
rad13	7.05779e-10	1.000000	7.06930e-10	1.000000
rad20	3.53191e-10	1.000000	3.53767e-10	1.000000
Ph+MeAc	3.45547e-10	1.000000	3.46110e-10	1.000000
rad21	2.27486e-10	1.000000	2.27857e-10	1.000000
rad8	1.89361e-10	1.000000	1.89670e-10	1.000000
rad9	1.36817e-10	1.000000	1.37040e-10	1.000000
Ph+Allene	1.27161e-10	1.000000	1.27369e-10	1.000000
rad18	1.23705e-10	1.000000	1.23907e-10	1.000000
rad25	3.60477e-11	1.000000	3.61064e-11	1.000000
PAH7+H	1.16921e-11	1.000000	1.17111e-11	1.000000
rad46	1.03036e-11	1.000000	1.03204e-11	1.000000
PhCH2CCH+H	4.19201e-12	1.000000	4.19885e-12	1.000000
rad24	2.85509e-12	1.000000	2.85975e-12	1.000000
rad39	2.83506e-12	1.000000	2.83969e-12	1.000000
rad60syn	1.62246e-12	1.000000	1.62511e-12	1.000000
rad33	1.28611e-12	1.000000	1.28821e-12	1.000000
rad12	1.05192e-12	1.000000	1.05364e-12	1.000000
rad60anti	5.35868e-13	1.000000	5.36742e-13	1.000000

rad14	1.69392e-13	1.000000	1.69669e-13	1.000000
rad37	6.43044e-14	1.000000	6.44093e-14	1.000000
rad27	4.88201e-14	1.000000	4.88998e-14	1.000000
PAH3+H	1.50146e-14	1.000000	1.50390e-14	1.000000
rad5	4.56077e-15	1.000000	4.56820e-15	1.000000
rad59	4.33021e-15	1.000000	4.33728e-15	1.000000
rad50	3.10627e-16	1.000000	3.11133e-16	1.000000
rad19syn	3.11327e-17	1.000000	3.11834e-17	1.000000
rad31	1.06051e-17	1.000000	1.06224e-17	1.000000
rad54	1.36922e-18	1.000000	1.37145e-18	1.000000
PAH10+CH3	8.16792e-19	1.000000	8.18124e-19	1.000000
rad52	2.22463e-19	1.000000	2.22826e-19	1.000000
rad43	1.89960e-19	1.000000	1.90269e-19	1.000000
rad62	7.48260e-20	1.000000	7.49480e-20	1.000000
rad51	1.40719e-20	1.000000	1.40948e-20	1.000000
PhcycC3H3_A+H	1.29878e-20	1.000000	1.30090e-20	1.000000
rad70	8.00780e-21	1.000000	8.02086e-21	1.000000
rad55	3.19083e-21	1.000000	3.19603e-21	1.000000
rad58	1.56200e-21	1.000000	1.56455e-21	1.000000
PAH1+H	4.47691e-22	1.000000	4.48421e-22	1.000000
rad65	1.67650e-22	1.000000	1.67923e-22	1.000000
rad34	3.51823e-23	1.000000	3.52397e-23	1.000000
rad42	6.24801e-25	1.000000	6.25820e-25	1.000000
rad41	1.90041e-25	1.000000	1.90351e-25	1.000000
rad47	1.43701e-28	1.000000	1.43935e-28	1.000000

1.00000000 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.60269e-20 (1.00)	3.57092e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.985188	0.985188	0.993953	0.993953
Benzyl+C2H2	0.00881797	0.994006	0.000000	0.993953
rad23	0.00304170	0.997048	0.00306877	0.997022
rad6	0.00283845	0.999886	0.00286370	0.999885
rad45	9.76274e-05	0.999984	9.84960e-05	0.999984
rad22	6.09775e-06	0.999990	6.15200e-06	0.999990
rad36	3.74051e-06	0.999994	3.77378e-06	0.999994
PhCCH+CH3	1.73243e-06	0.999995	1.74784e-06	0.999996
rad11	7.65368e-07	0.999996	7.72177e-07	0.999996
PhCHCCH2+H	7.57206e-07	0.999997	7.63942e-07	0.999997
rad2	7.40670e-07	0.999998	7.47260e-07	0.999998
PhCCCH3+H	4.71508e-07	0.999998	4.75703e-07	0.999998
rad30	4.00543e-07	0.999998	4.04106e-07	0.999999
rad7	3.94797e-07	0.999999	3.98310e-07	0.999999
rad28	2.53363e-07	0.999999	2.55617e-07	0.999999
Ph+MeAc	1.40487e-07	0.999999	1.41737e-07	1.000000
rad1	6.89295e-08	0.999999	6.95427e-08	1.000000
PAH9+H	6.85939e-08	0.999999	6.92041e-08	1.000000
rad10	4.73532e-08	0.999999	4.77744e-08	1.000000
rad26	4.59928e-08	0.999999	4.64019e-08	1.000000
Ph+Allene	3.20302e-08	1.000000	3.23152e-08	1.000000
rad35	2.74137e-08	1.000000	2.76576e-08	1.000000
rad38	1.65994e-08	1.000000	1.67471e-08	1.000000
rad3	1.12224e-08	1.000000	1.13223e-08	1.000000
PAH7+H	9.89072e-09	1.000000	9.97872e-09	1.000000
rad20	7.34264e-09	1.000000	7.40796e-09	1.000000
rad4	5.91013e-09	1.000000	5.96271e-09	1.000000
rad21	4.94363e-09	1.000000	4.98761e-09	1.000000
PhCH2CCH+H	3.09107e-09	1.000000	3.11857e-09	1.000000
rad39	2.21673e-09	1.000000	2.23645e-09	1.000000
rad13	1.73349e-09	1.000000	1.74892e-09	1.000000
rad18	1.70865e-09	1.000000	1.72386e-09	1.000000
rad9	9.81139e-10	1.000000	9.89868e-10	1.000000
rad19anti	5.04770e-10	1.000000	5.09261e-10	1.000000
rad46	3.22640e-10	1.000000	3.25510e-10	1.000000
rad60syn	9.43383e-11	1.000000	9.51776e-11	1.000000
rad37	5.30733e-11	1.000000	5.35455e-11	1.000000
rad60anti	3.75057e-11	1.000000	3.78393e-11	1.000000
rad25	2.55217e-11	1.000000	2.57487e-11	1.000000
PAH3+H	6.49484e-12	1.000000	6.55263e-12	1.000000
rad33	4.28637e-12	1.000000	4.32450e-12	1.000000
rad24	1.60749e-12	1.000000	1.62179e-12	1.000000
rad59	1.35756e-12	1.000000	1.36964e-12	1.000000
rad14	1.09731e-12	1.000000	1.10708e-12	1.000000
rad27	7.15360e-13	1.000000	7.21724e-13	1.000000
rad15	6.14334e-13	1.000000	6.19800e-13	1.000000

rad50	2.13854e-13	1.000000	2.15756e-13	1.000000
rad19syn	1.29007e-13	1.000000	1.30155e-13	1.000000
rad54	9.63333e-15	1.000000	9.71903e-15	1.000000
PAH10+CH3	6.23165e-15	1.000000	6.28709e-15	1.000000
rad31	1.66402e-15	1.000000	1.67882e-15	1.000000
rad67	1.56977e-15	1.000000	1.58374e-15	1.000000
rad52	1.34826e-15	1.000000	1.36026e-15	1.000000
rad43	1.08287e-15	1.000000	1.09250e-15	1.000000
rad51	6.93854e-16	1.000000	7.00027e-16	1.000000
rad62	5.62418e-16	1.000000	5.67421e-16	1.000000
PhcycC3H3_A+H	3.69393e-16	1.000000	3.72680e-16	1.000000
rad70	1.35236e-16	1.000000	1.36440e-16	1.000000
rad55	5.75495e-17	1.000000	5.80614e-17	1.000000
PAH1+H	2.93725e-17	1.000000	2.96338e-17	1.000000
rad5	2.83447e-17	1.000000	2.85968e-17	1.000000
rad65	1.85143e-17	1.000000	1.86790e-17	1.000000
rad58	1.83759e-17	1.000000	1.85394e-17	1.000000
rad12	1.66017e-17	1.000000	1.67494e-17	1.000000
rad34	2.37254e-18	1.000000	2.39364e-18	1.000000
rad42	9.39150e-20	1.000000	9.47505e-20	1.000000
rad41	4.39249e-20	1.000000	4.43157e-20	1.000000
rad53	1.25296e-20	1.000000	1.26410e-20	1.000000
rad73	8.19782e-21	1.000000	8.27075e-21	1.000000
rad64	6.64396e-21	1.000000	6.70307e-21	1.000000
rad71	1.99148e-21	1.000000	2.00920e-21	1.000000
rad56	1.06809e-21	1.000000	1.07759e-21	1.000000
rad68syn	1.60126e-22	1.000000	1.61551e-22	1.000000
rad68anti	1.10244e-22	1.000000	1.11225e-22	1.000000
rad61	9.21399e-23	1.000000	9.29596e-23	1.000000
PAH8+H	2.37066e-23	1.000000	2.39175e-23	1.000000
rad40syn	9.45577e-24	1.000000	9.53990e-24	1.000000
rad40anti	3.51609e-24	1.000000	3.54737e-24	1.000000
rad47	1.43536e-24	1.000000	1.44813e-24	1.000000
rad72	1.05881e-24	1.000000	1.06823e-24	1.000000
rad8	2.78583e-36	1.000000	2.81062e-36	1.000000

1.00000000 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.18802e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.963266	0.963266	0.994021	0.994021
Benzyl+C2H2	0.0309393	0.994205	0.000000	0.994021
rad6	0.00482610	0.999031	0.00498018	0.999001
rad23	0.000836473	0.999868	0.000863179	0.999864
rad45	5.49897e-05	0.999923	5.67453e-05	0.999921
PhCCH+CH3	3.54814e-05	0.999958	3.66142e-05	0.999958
PhCHCCH2+H	1.47625e-05	0.999973	1.52339e-05	0.999973
PhCCCH3+H	8.54918e-06	0.999982	8.82213e-06	0.999982
Ph+MeAc	3.70105e-06	0.999985	3.81921e-06	0.999986
rad36	2.57517e-06	0.999988	2.65739e-06	0.999988
rad2	2.29440e-06	0.999990	2.36765e-06	0.999991
rad30	2.18806e-06	0.999992	2.25792e-06	0.999993
rad28	1.54381e-06	0.999994	1.59309e-06	0.999994
Ph+Allene	1.52834e-06	0.999995	1.57714e-06	0.999996
rad22	1.04637e-06	0.999997	1.07977e-06	0.999997
rad7	6.85231e-07	0.999997	7.07108e-07	0.999998
PAH9+H	5.10417e-07	0.999998	5.26714e-07	0.999998
PAH7+H	3.61439e-07	0.999998	3.72979e-07	0.999999
rad11	3.13104e-07	0.999998	3.23100e-07	0.999999
rad1	2.73972e-07	0.999999	2.82719e-07	0.999999
rad26	2.22081e-07	0.999999	2.29172e-07	1.000000
PhCH2CCH+H	2.08263e-07	0.999999	2.14912e-07	1.000000
rad35	1.71774e-07	0.999999	1.77258e-07	1.000000
rad38	1.44577e-07	0.999999	1.49193e-07	1.000000
rad10	1.26863e-07	1.000000	1.30913e-07	1.000000
rad39	8.49813e-08	1.000000	8.76945e-08	1.000000
rad3	3.66915e-08	1.000000	3.78629e-08	1.000000
rad4	2.06573e-08	1.000000	2.13168e-08	1.000000
rad19anti	1.10766e-08	1.000000	1.14303e-08	1.000000
rad46	6.27380e-09	1.000000	6.47410e-09	1.000000
rad20	4.99442e-09	1.000000	5.15387e-09	1.000000
rad21	3.69391e-09	1.000000	3.81184e-09	1.000000
rad13	3.48911e-09	1.000000	3.60051e-09	1.000000
rad60syn	2.17006e-09	1.000000	2.23935e-09	1.000000
rad37	1.84167e-09	1.000000	1.90047e-09	1.000000
rad9	1.28610e-09	1.000000	1.32716e-09	1.000000

rad60anti	9.76449e-10	1.000000	1.00762e-09	1.00000
rad18	5.58003e-10	1.000000	5.75819e-10	1.00000
PAH3+H	5.01285e-10	1.000000	5.17290e-10	1.00000
rad50	1.11694e-10	1.000000	1.15260e-10	1.00000
rad59	9.57982e-11	1.000000	9.88567e-11	1.00000
rad19syn	2.19073e-11	1.000000	2.26068e-11	1.00000
rad25	1.31935e-11	1.000000	1.36148e-11	1.00000
rad33	1.02523e-11	1.000000	1.05796e-11	1.00000
rad51	7.15144e-12	1.000000	7.37977e-12	1.00000
rad52	4.16666e-12	1.000000	4.29969e-12	1.00000
rad14	3.06611e-12	1.000000	3.16401e-12	1.00000
rad54	2.54588e-12	1.000000	2.62716e-12	1.00000
rad27	2.30984e-12	1.000000	2.38359e-12	1.00000
PAH10+CH3	1.74432e-12	1.000000	1.80001e-12	1.00000
rad24	1.52982e-12	1.000000	1.57866e-12	1.00000
rad15	8.41519e-13	1.000000	8.68387e-13	1.00000
PhcycC3H3_A+H	3.09455e-13	1.000000	3.19335e-13	1.00000
rad67	2.87471e-13	1.000000	2.96649e-13	1.00000
rad43	2.14488e-13	1.000000	2.21336e-13	1.00000
rad65	2.11287e-13	1.000000	2.18033e-13	1.00000
rad62	1.37856e-13	1.000000	1.42258e-13	1.00000
PAH1+H	1.12910e-13	1.000000	1.16515e-13	1.00000
rad70	9.22752e-14	1.000000	9.52213e-14	1.00000
rad31	5.52012e-14	1.000000	5.69636e-14	1.00000
rad55	3.57456e-14	1.000000	3.68869e-14	1.00000
rad58	1.97677e-14	1.000000	2.03989e-14	1.00000
rad73	1.33969e-14	1.000000	1.38246e-14	1.00000
rad71	1.05676e-14	1.000000	1.09050e-14	1.00000
rad34	6.09119e-15	1.000000	6.28566e-15	1.00000
rad64	9.29631e-16	1.000000	9.59311e-16	1.00000
rad53	4.74440e-16	1.000000	4.89588e-16	1.00000
rad56	2.34182e-16	1.000000	2.41659e-16	1.00000
rad5	2.17738e-16	1.000000	2.24689e-16	1.00000
rad42	1.89923e-16	1.000000	1.95987e-16	1.00000
rad41	1.56768e-16	1.000000	1.61773e-16	1.00000
rad72	1.19009e-16	1.000000	1.22808e-16	1.00000
PAH8+H	9.43712e-17	1.000000	9.73842e-17	1.00000
rad61	9.14699e-17	1.000000	9.43903e-17	1.00000
rad68syn	7.02721e-17	1.000000	7.25157e-17	1.00000
rad12	5.66277e-17	1.000000	5.84357e-17	1.00000
rad68anti	4.65028e-17	1.000000	4.79875e-17	1.00000
rad40syn	1.56109e-17	1.000000	1.61093e-17	1.00000
rad40anti	8.11730e-18	1.000000	8.37646e-18	1.00000
rad47	4.48221e-21	1.000000	4.62531e-21	1.00000
rad8	6.02010e-32	1.000000	6.21231e-32	1.00000

1.00000000 Pa, 600.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.36947e-17 (1.00)	1.26224e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.915583	0.915583	0.993364	0.993364
Benzyl+C2H2	0.0783007	0.993884	0.00000	0.993364
rad6	0.00532706	0.999211	0.00577961	0.999144
rad23	0.000323270	0.999534	0.000350732	0.999494
PhCCH+CH3	0.000216262	0.999750	0.000234634	0.999729
PhCHCCH2+H	9.00907e-05	0.999840	9.77441e-05	0.999827
PhCCCH3+H	4.49995e-05	0.999885	4.88224e-05	0.999876
rad45	3.72553e-05	0.999923	4.04202e-05	0.999916
Ph+MeAc	2.61717e-05	0.999949	2.83951e-05	0.999944
Ph+Allene	1.96495e-05	0.999968	2.13188e-05	0.999966
rad30	7.57484e-06	0.999976	8.21835e-06	0.999974
rad2	3.85144e-06	0.999980	4.17863e-06	0.999978
PhCH2CCH+H	3.51326e-06	0.999983	3.81172e-06	0.999982
PAH7+H	3.50509e-06	0.999987	3.80285e-06	0.999986
rad28	3.00586e-06	0.999990	3.26122e-06	0.999989
PAH9+H	2.71393e-06	0.999993	2.94448e-06	0.999992
rad36	2.28983e-06	0.999995	2.48436e-06	0.999994
rad38	8.91462e-07	0.999996	9.67194e-07	0.999995
rad39	8.48356e-07	0.999997	9.20426e-07	0.999996
rad7	8.01187e-07	0.999997	8.69250e-07	0.999997
rad35	7.59605e-07	0.999998	8.24136e-07	0.999998
rad1	5.67173e-07	0.999999	6.15356e-07	0.999999
rad26	3.42759e-07	0.999999	3.71878e-07	0.999999
rad11	2.66135e-07	0.999999	2.88744e-07	0.999999
rad22	2.59033e-07	1.000000	2.81039e-07	1.000000
rad10	1.37774e-07	1.000000	1.49478e-07	1.000000

rad19anti	1.09238e-07	1.000000	1.18518e-07	1.000000
rad46	9.09920e-08	1.000000	9.87220e-08	1.000000
rad3	6.68652e-08	1.000000	7.25455e-08	1.000000
rad4	4.06789e-08	1.000000	4.41347e-08	1.000000
rad50	2.40135e-08	1.000000	2.60535e-08	1.000000
rad60syn	1.93447e-08	1.000000	2.09881e-08	1.000000
rad37	1.60510e-08	1.000000	1.74146e-08	1.000000
PAH3+H	1.06520e-08	1.000000	1.15569e-08	1.000000
rad60anti	9.37090e-09	1.000000	1.01670e-08	1.000000
rad20	5.84163e-09	1.000000	6.33789e-09	1.000000
rad51	5.19183e-09	1.000000	5.63289e-09	1.000000
rad13	5.12702e-09	1.000000	5.56258e-09	1.000000
rad21	4.86872e-09	1.000000	5.28233e-09	1.000000
rad9	1.88789e-09	1.000000	2.04827e-09	1.000000
rad59	1.82979e-09	1.000000	1.98523e-09	1.000000
rad52	1.76632e-09	1.000000	1.91637e-09	1.000000
rad19syn	7.54955e-10	1.000000	8.19090e-10	1.000000
PAH10+CH3	4.15768e-10	1.000000	4.51089e-10	1.000000
rad18	2.79348e-10	1.000000	3.03080e-10	1.000000
PAH1+H	1.53110e-10	1.000000	1.66117e-10	1.000000
rad65	1.41915e-10	1.000000	1.53971e-10	1.000000
rad54	1.29993e-10	1.000000	1.41037e-10	1.000000
rad71	1.05119e-10	1.000000	1.14049e-10	1.000000
rad73	8.26494e-11	1.000000	8.96707e-11	1.000000
rad67	5.57659e-11	1.000000	6.05033e-11	1.000000
PhcycC3H3_A+H	5.07003e-11	1.000000	5.50075e-11	1.000000
rad70	2.47680e-11	1.000000	2.68721e-11	1.000000
rad33	2.07239e-11	1.000000	2.24844e-11	1.000000
rad43	9.79780e-12	1.000000	1.06302e-11	1.000000
rad25	8.67620e-12	1.000000	9.41327e-12	1.000000
rad58	7.24966e-12	1.000000	7.86553e-12	1.000000
rad24	6.50235e-12	1.000000	7.05474e-12	1.000000
rad62	6.43407e-12	1.000000	6.98066e-12	1.000000
rad34	5.31423e-12	1.000000	5.76569e-12	1.000000
rad14	4.55394e-12	1.000000	4.94081e-12	1.000000
rad55	3.75855e-12	1.000000	4.07785e-12	1.000000
rad27	3.35482e-12	1.000000	3.63982e-12	1.000000
rad72	2.99143e-12	1.000000	3.24556e-12	1.000000
rad64	2.62914e-12	1.000000	2.85249e-12	1.000000
rad15	1.19969e-12	1.000000	1.30161e-12	1.000000
PAH8+H	1.16676e-12	1.000000	1.26587e-12	1.000000
rad61	5.42834e-13	1.000000	5.88949e-13	1.000000
rad53	3.89590e-13	1.000000	4.22686e-13	1.000000
rad68syn	3.73362e-13	1.000000	4.05080e-13	1.000000
rad56	3.59574e-13	1.000000	3.90121e-13	1.000000
rad31	3.28401e-13	1.000000	3.56300e-13	1.000000
rad68anti	2.43043e-13	1.000000	2.63690e-13	1.000000
rad40syn	1.40315e-13	1.000000	1.52235e-13	1.000000
rad42	1.12375e-13	1.000000	1.21921e-13	1.000000
rad41	9.03945e-14	1.000000	9.80738e-14	1.000000
rad40anti	8.36383e-14	1.000000	9.07436e-14	1.000000
rad12	5.55636e-16	1.000000	6.02839e-16	1.000000
rad5	5.42825e-16	1.000000	5.88940e-16	1.000000
rad47	4.35423e-18	1.000000	4.72414e-18	1.000000
rad8	2.49495e-27	1.000000	2.70690e-27	1.000000

1.00000000 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	6.78515e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.840480	0.840480	0.993763	0.993763
Benzyl+C2H2	0.154245	0.994725	0.000000	0.993763
rad6	0.00384706	0.998572	0.00454868	0.998312
PhCCH+CH3	0.000625760	0.999198	0.000739883	0.999052
PhCHCCH2+H	0.000276151	0.999474	0.000326514	0.999378
rad23	0.000113353	0.999587	0.000134026	0.999512
Ph+Allene	0.000112881	0.999700	0.000133468	0.999646
PhCCCH3+H	0.000109079	0.999809	0.000128972	0.999775
Ph+MeAc	8.21543e-05	0.999891	9.71373e-05	0.999872
PhCH2CCH+H	2.53083e-05	0.999917	2.99239e-05	0.999902
rad30	1.89217e-05	0.999936	2.23726e-05	0.999924
rad45	1.69557e-05	0.999953	2.00480e-05	0.999944
PAH7+H	1.55681e-05	0.999968	1.84073e-05	0.999962
PAH9+H	1.04992e-05	0.999979	1.24140e-05	0.999975
rad38	3.87503e-06	0.999983	4.58174e-06	0.999979
rad39	3.85563e-06	0.999986	4.55880e-06	0.999984

rad2	3.29867e-06	0.999990	3.90027e-06	0.999988
rad28	2.83477e-06	0.999993	3.35177e-06	0.999991
rad35	2.48668e-06	0.999995	2.94019e-06	0.999994
rad36	1.19360e-06	0.999996	1.41128e-06	0.999996
rad46	6.62101e-07	0.999997	7.82852e-07	0.999996
rad7	6.51105e-07	0.999998	7.69850e-07	0.999997
rad19anti	6.00134e-07	0.999998	7.09583e-07	0.999998
rad1	5.44504e-07	0.999999	6.43809e-07	0.999998
rad50	3.77403e-07	0.999999	4.46232e-07	0.999999
rad26	2.70222e-07	0.999999	3.19504e-07	0.999999
rad11	2.21357e-07	1.000000	2.61727e-07	1.000000
rad51	1.05300e-07	1.000000	1.24504e-07	1.000000
PAH3+H	9.94017e-08	1.000000	1.17530e-07	1.000000
rad60syn	9.56818e-08	1.000000	1.13132e-07	1.000000
rad10	8.56133e-08	1.000000	1.01227e-07	1.000000
rad22	8.14464e-08	1.000000	9.63002e-08	1.000000
rad37	6.10318e-08	1.000000	7.21625e-08	1.000000
rad3	5.43319e-08	1.000000	6.42407e-08	1.000000
rad60anti	4.87902e-08	1.000000	5.76883e-08	1.000000
rad4	3.50919e-08	1.000000	4.14918e-08	1.000000
rad52	3.18095e-08	1.000000	3.76108e-08	1.000000
rad59	1.55610e-08	1.000000	1.83989e-08	1.000000
rad20	1.12783e-08	1.000000	1.33352e-08	1.000000
rad21	1.03284e-08	1.000000	1.22120e-08	1.000000
PAH10+CH3	9.02329e-09	1.000000	1.06689e-08	1.000000
rad19syn	8.61608e-09	1.000000	1.01874e-08	1.000000
rad13	6.02696e-09	1.000000	7.12613e-09	1.000000
rad9	4.99467e-09	1.000000	5.90557e-09	1.000000
PAH1+H	3.72570e-09	1.000000	4.40517e-09	1.000000
rad71	3.34912e-09	1.000000	3.95992e-09	1.000000
rad65	2.79331e-09	1.000000	3.30275e-09	1.000000
rad73	2.44586e-09	1.000000	2.89192e-09	1.000000
rad54	1.76777e-09	1.000000	2.09017e-09	1.000000
rad67	1.13540e-09	1.000000	1.34247e-09	1.000000
PhcycC3H3_A+H	8.54217e-10	1.000000	1.01001e-09	1.000000
rad70	5.42798e-10	1.000000	6.41791e-10	1.000000
rad18	2.36936e-10	1.000000	2.80148e-10	1.000000
rad58	1.53012e-10	1.000000	1.80918e-10	1.000000
rad43	1.52646e-10	1.000000	1.80485e-10	1.000000
rad34	1.30750e-10	1.000000	1.54595e-10	1.000000
rad72	1.08347e-10	1.000000	1.28107e-10	1.000000
rad62	9.38906e-11	1.000000	1.11014e-10	1.000000
rad64	6.88210e-11	1.000000	8.13723e-11	1.000000
rad55	6.02968e-11	1.000000	7.12935e-11	1.000000
rad24	5.63891e-11	1.000000	6.66730e-11	1.000000
rad33	4.39445e-11	1.000000	5.19589e-11	1.000000
PAH8+H	4.03830e-11	1.000000	4.77479e-11	1.000000
rad61	1.63626e-11	1.000000	1.93467e-11	1.000000
rad68syn	1.12505e-11	1.000000	1.33024e-11	1.000000
rad25	8.37941e-12	1.000000	9.90761e-12	1.000000
rad56	7.87275e-12	1.000000	9.30854e-12	1.000000
rad53	7.54602e-12	1.000000	8.92222e-12	1.000000
rad68anti	7.30754e-12	1.000000	8.64026e-12	1.000000
rad41	5.04381e-12	1.000000	5.96368e-12	1.000000
rad14	4.78481e-12	1.000000	5.65744e-12	1.000000
rad40syn	4.77959e-12	1.000000	5.65128e-12	1.000000
rad27	3.43689e-12	1.000000	4.06369e-12	1.000000
rad42	3.42671e-12	1.000000	4.05166e-12	1.000000
rad40anti	2.99319e-12	1.000000	3.53907e-12	1.000000
rad15	2.23370e-12	1.000000	2.64107e-12	1.000000
rad31	4.92579e-13	1.000000	5.82414e-13	1.000000
rad12	2.82017e-14	1.000000	3.33450e-14	1.000000
rad5	7.55599e-16	1.000000	8.93402e-16	1.000000
rad47	4.53028e-16	1.000000	5.35650e-16	1.000000
rad8	8.99282e-23	1.000000	1.06329e-22	1.000000

1.00000000 Pa, 800.000000 K

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

Total | 3.12228e-16 (1.00) | 2.33633e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.743512	0.743512	0.993632	0.993632
Benzyl+C2H2	0.251723	0.995235	0.000000	0.993632
rad6	0.00203288	0.997268	0.00271675	0.996349
PhCCH+CH3	0.00115853	0.998426	0.00154826	0.997897
PhCHCCH2+H	0.000576444	0.999003	0.000770362	0.998667
Ph+Allene	0.000389037	0.999392	0.000519910	0.999187

PhCCCH3+H	0.000163774	0.999556	0.000218868	0.999406
Ph+MeAc	0.000156547	0.999712	0.000209211	0.999615
PhCH2CCH+H	0.000105236	0.999817	0.000140637	0.999756
PAH7+H	4.19134e-05	0.999859	5.60132e-05	0.999812
rad30	3.73206e-05	0.999897	4.98754e-05	0.999862
rad23	3.52051e-05	0.999932	4.70482e-05	0.999909
PAH9+H	2.45154e-05	0.999956	3.27625e-05	0.999942
rad39	1.03368e-05	0.999967	1.38142e-05	0.999956
rad38	9.24452e-06	0.999976	1.23544e-05	0.999968
rad45	6.80489e-06	0.999983	9.09408e-06	0.999977
rad35	5.53122e-06	0.999988	7.39195e-06	0.999984
rad19anti	2.17142e-06	0.999990	2.90189e-06	0.999987
rad28	1.73454e-06	0.999992	2.31805e-06	0.999990
rad46	1.66327e-06	0.999994	2.22280e-06	0.999992
rad2	1.56772e-06	0.999995	2.09511e-06	0.999994
rad50	9.62578e-07	0.999996	1.28639e-06	0.999995
rad36	5.18227e-07	0.999997	6.92561e-07	0.999996
PAH3+H	4.86082e-07	0.999997	6.49602e-07	0.999997
rad7	4.28140e-07	0.999998	5.72167e-07	0.999997
rad60syn	3.16648e-07	0.999998	4.23169e-07	0.999998
rad51	2.83349e-07	0.999998	3.78669e-07	0.999998
rad1	2.57788e-07	0.999999	3.44508e-07	0.999998
rad60anti	1.67483e-07	0.999999	2.23825e-07	0.999998
rad11	1.66450e-07	0.999999	2.22445e-07	0.999999
rad26	1.46902e-07	0.999999	1.96320e-07	0.999999
rad37	1.30184e-07	0.999999	1.73979e-07	0.999999
rad52	8.30820e-08	0.999999	1.11031e-07	0.999999
rad59	7.33312e-08	0.999999	9.80000e-08	0.999999
rad19syn	4.76983e-08	1.000000	6.37442e-08	0.999999
rad10	3.76715e-08	1.000000	5.03443e-08	0.999999
rad22	3.49439e-08	1.000000	4.66992e-08	0.999999
rad20	2.92630e-08	1.000000	3.91072e-08	0.999999
PAH10+CH3	2.73689e-08	1.000000	3.65759e-08	0.999999
rad21	2.68701e-08	1.000000	3.59093e-08	1.000000
rad3	2.58015e-08	1.000000	3.44812e-08	1.000000
rad4	1.70838e-08	1.000000	2.28308e-08	1.000000
rad9	1.70596e-08	1.000000	2.27985e-08	1.000000
PAH1+H	1.10202e-08	1.000000	1.47275e-08	1.000000
rad54	1.06004e-08	1.000000	1.41664e-08	1.000000
rad71	1.01959e-08	1.000000	1.36258e-08	1.000000
rad65	7.44789e-09	1.000000	9.95338e-09	1.000000
rad73	7.29649e-09	1.000000	9.75105e-09	1.000000
rad13	7.22341e-09	1.000000	9.65339e-09	1.000000
PhcycC3H3_A+H	4.31325e-09	1.000000	5.76424e-09	1.000000
rad67	4.09431e-09	1.000000	5.47165e-09	1.000000
rad70	2.01762e-09	1.000000	2.69636e-09	1.000000
rad43	6.26410e-10	1.000000	8.37137e-10	1.000000
rad58	6.02531e-10	1.000000	8.05225e-10	1.000000
rad62	4.41008e-10	1.000000	5.89365e-10	1.000000
rad34	4.18742e-10	1.000000	5.59608e-10	1.000000
rad55	3.55326e-10	1.000000	4.74858e-10	1.000000
rad18	3.53209e-10	1.000000	4.72029e-10	1.000000
rad72	3.41629e-10	1.000000	4.56555e-10	1.000000
rad24	2.86408e-10	1.000000	3.82756e-10	1.000000
rad64	1.99896e-10	1.000000	2.67141e-10	1.000000
PAH8+H	1.33453e-10	1.000000	1.78347e-10	1.000000
rad33	1.20700e-10	1.000000	1.61304e-10	1.000000
rad61	5.20029e-11	1.000000	6.94969e-11	1.000000
rad68syn	3.39131e-11	1.000000	4.53215e-11	1.000000
rad41	2.96532e-11	1.000000	3.96287e-11	1.000000
rad53	2.28461e-11	1.000000	3.05316e-11	1.000000
rad56	2.22115e-11	1.000000	2.96836e-11	1.000000
rad68anti	2.20177e-11	1.000000	2.94245e-11	1.000000
rad40syn	1.63619e-11	1.000000	2.18662e-11	1.000000
rad42	1.36873e-11	1.000000	1.82917e-11	1.000000
rad25	1.09209e-11	1.000000	1.45947e-11	1.000000
rad40anti	1.09025e-11	1.000000	1.45702e-11	1.000000
rad14	5.12786e-12	1.000000	6.85289e-12	1.000000
rad15	4.82739e-12	1.000000	6.45134e-12	1.000000
rad27	3.97954e-12	1.000000	5.31827e-12	1.000000
rad12	7.05216e-13	1.000000	9.42453e-13	1.000000
rad31	3.97867e-13	1.000000	5.31711e-13	1.000000
rad47	2.62607e-15	1.000000	3.50950e-15	1.000000
rad5	8.54125e-16	1.000000	1.14146e-15	1.000000
rad8	7.16110e-19	1.000000	9.57013e-19	1.000000

1.00000000 Pa, 900.000000 K

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

Total | 9.21769e-16 (1.00) 5.92014e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.636873	0.636873	0.991617	0.991617
Benzyl+C2H2	0.357742	0.994615	0.00000	0.991617
PhCCH+CH3	0.00164360	0.996259	0.00255910	0.994176
PhCHCCH2+H	0.000975673	0.997234	0.00151913	0.995695
Ph+Allene	0.000955542	0.998190	0.00148779	0.997183
rad6	0.000832443	0.999022	0.00129612	0.998479
PhCH2CCH+H	0.000306186	0.999328	0.000476733	0.998956
Ph+MeAc	0.000221698	0.999550	0.000345185	0.999301
PhCCCH3+H	0.000185095	0.999735	0.000288194	0.999589
PAH7+H	8.21474e-05	0.999817	0.000127904	0.999717
rad30	6.20767e-05	0.999879	9.66539e-05	0.999814
PAH9+H	4.33181e-05	0.999923	6.74466e-05	0.999881
rad39	1.97542e-05	0.999943	3.07574e-05	0.999912
rad38	1.61263e-05	0.999959	2.51088e-05	0.999937
rad23	1.20832e-05	0.999971	1.88137e-05	0.999956
rad35	9.75765e-06	0.999981	1.51927e-05	0.999971
rad19anti	5.99727e-06	0.999986	9.33780e-06	0.999980
rad45	2.85229e-06	0.999989	4.44104e-06	0.999985
rad46	2.63245e-06	0.999992	4.09874e-06	0.999989
PAH3+H	1.68775e-06	0.999994	2.62784e-06	0.999992
rad50	9.81147e-07	0.999995	1.52765e-06	0.999993
rad60syn	7.97164e-07	0.999995	1.24119e-06	0.999994
rad28	7.86545e-07	0.999996	1.22466e-06	0.999996
rad2	5.40202e-07	0.999997	8.41098e-07	0.999996
rad60anti	4.33876e-07	0.999997	6.75548e-07	0.999997
rad51	2.73018e-07	0.999997	4.25092e-07	0.999998
rad7	2.50334e-07	0.999998	3.89771e-07	0.999998
rad59	2.44528e-07	0.999998	3.80732e-07	0.999998
rad36	2.37805e-07	0.999998	3.70264e-07	0.999999
rad37	1.95864e-07	0.999998	3.04962e-07	0.999999
rad19syn	1.74313e-07	0.999999	2.71407e-07	0.999999
rad11	1.21324e-07	0.999999	1.88902e-07	0.999999
rad1	9.41669e-08	0.999999	1.46618e-07	1.000000
rad52	8.08480e-08	0.999999	1.25881e-07	1.000000
rad26	6.49413e-08	0.999999	1.01114e-07	1.000000
rad20	6.38577e-08	0.999999	9.94270e-08	1.000000
rad21	5.31305e-08	0.999999	8.27246e-08	1.000000
rad54	4.25959e-08	0.999999	6.63222e-08	1.000000
rad9	3.26947e-08	0.999999	5.09059e-08	1.000000
PAH10+CH3	3.20733e-08	0.999999	4.99383e-08	1.000000
rad22	2.30533e-08	0.999999	3.58942e-08	1.000000
PhcycC3H3_A+H	1.76095e-08	0.999999	2.74181e-08	1.000000
rad10	1.64471e-08	0.999999	2.56082e-08	1.000000
PAH1+H	1.33863e-08	0.999999	2.08426e-08	1.000000
rad67	1.05771e-08	0.999999	1.64687e-08	1.000000
rad13	1.02680e-08	0.999999	1.59873e-08	1.000000
rad71	1.02462e-08	0.999999	1.59534e-08	1.000000
rad3	9.99940e-09	0.999999	1.55691e-08	1.000000
rad73	7.26059e-09	0.999999	1.13048e-08	1.000000
rad65	7.16925e-09	0.999999	1.11626e-08	1.000000
rad4	6.97665e-09	0.999999	1.08627e-08	1.000000
rad70	5.06351e-09	0.999999	7.88392e-09	1.000000
rad58	1.93444e-09	0.999999	3.01193e-09	1.000000
rad55	1.53365e-09	0.999999	2.38791e-09	1.000000
rad62	1.24649e-09	0.999999	1.94080e-09	1.000000
rad43	1.03801e-09	0.999999	1.61619e-09	1.000000
rad34	7.32768e-10	0.999999	1.14092e-09	1.000000
rad18	6.71459e-10	0.999999	1.04547e-09	1.000000
rad24	5.73500e-10	0.999999	8.92943e-10	1.000000
rad72	3.49429e-10	0.999999	5.44063e-10	1.000000
rad33	2.97190e-10	0.999999	4.62728e-10	1.000000
rad64	2.06818e-10	0.999999	3.22018e-10	1.000000
PAH8+H	1.46614e-10	0.999999	2.28280e-10	1.000000
rad61	5.57565e-11	0.999999	8.68133e-11	1.000000
rad53	4.79872e-11	0.999999	7.47165e-11	1.000000
rad41	4.74758e-11	0.999999	7.39202e-11	1.000000
rad68syn	3.50211e-11	0.999999	5.45281e-11	1.000000
rad56	2.83283e-11	0.999999	4.41073e-11	1.000000
rad42	2.35538e-11	0.999999	3.66735e-11	1.000000
rad68anti	2.27629e-11	0.999999	3.54420e-11	1.000000
rad40syn	1.88024e-11	0.999999	2.92755e-11	1.000000
rad25	1.77261e-11	0.999999	2.75997e-11	1.000000
rad40anti	1.32238e-11	0.999999	2.05895e-11	1.000000
rad15	7.79976e-12	0.999999	1.21443e-11	1.000000
rad14	6.47536e-12	0.999999	1.00822e-11	1.000000
rad27	6.18025e-12	0.999999	9.62270e-12	1.000000

rad12	3.93317e-12	0.999999	6.12398e-12	1.00000
rad31	2.68579e-13	0.999999	4.18180e-13	1.00000
rad47	3.04713e-15	0.999999	4.74440e-15	1.00000
rad5	8.43087e-16	0.999999	1.31269e-15	1.00000
rad8	4.95724e-16	0.999999	7.71846e-16	1.00000

1.00000000 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.23691e-15 (1.00)	1.20787e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.532886	0.532886	0.986879	0.986879
Benzyl+C2H2	0.460029	0.992915	0.00000	0.986879
PhCCH+CH3	0.00196118	0.994876	0.00363201	0.990511
Ph+Allene	0.00184734	0.996724	0.00342119	0.993932
PhCHCCH2+H	0.00144559	0.998169	0.00267716	0.996609
PhCH2CCH+H	0.000695668	0.998865	0.00128834	0.997898
rad6	0.000294333	0.999159	0.000545090	0.998443
Ph+MeAc	0.000262558	0.999422	0.000486244	0.998925
PhCCCH3+H	0.000175110	0.999597	0.000324296	0.999253
PAH7+H	0.000130859	0.999728	0.000242345	0.999496
rad30	9.13425e-05	0.999819	0.000169162	0.999665
PAH9+H	7.20199e-05	0.999891	0.000133377	0.999798
rad39	3.05348e-05	0.999922	5.65489e-05	0.999855
rad38	2.69791e-05	0.999949	4.99639e-05	0.999905
rad35	1.58663e-05	0.999964	2.93835e-05	0.999934
rad19anti	1.37331e-05	0.999978	2.54331e-05	0.999960
rad23	4.99244e-06	0.999983	9.24575e-06	0.999969
PAH3+H	4.69462e-06	0.999988	8.69419e-06	0.999977
rad46	4.42063e-06	0.999992	8.18679e-06	0.999986
rad60syn	1.65763e-06	0.999994	3.06986e-06	0.999989
rad45	1.34073e-06	0.999995	2.48297e-06	0.999991
rad50	9.38313e-07	0.999996	1.73771e-06	0.999993
rad60anti	9.23864e-07	0.999997	1.71095e-06	0.999995
rad59	6.47003e-07	0.999998	1.19822e-06	0.999996
rad19syn	4.73955e-07	0.999998	8.77741e-07	0.999997
rad28	3.07850e-07	0.999999	5.70123e-07	0.999997
rad37	2.53059e-07	0.999999	4.68653e-07	0.999998
rad51	1.92342e-07	0.999999	3.56208e-07	0.999998
rad2	1.75141e-07	0.999999	3.24353e-07	0.999998
rad7	1.50829e-07	0.999999	2.79328e-07	0.999999
rad54	1.27264e-07	0.999999	2.35686e-07	0.999999
rad36	1.17353e-07	1.00000	2.17331e-07	0.999999
rad11	9.92829e-08	1.00000	1.83867e-07	0.999999
rad20	9.08574e-08	1.00000	1.68263e-07	1.00000
rad21	6.56309e-08	1.00000	1.21545e-07	1.00000
rad52	6.37130e-08	1.00000	1.17993e-07	1.00000
PhcycC3H3_A+H	6.17172e-08	1.00000	1.14297e-07	1.00000
rad67	3.53312e-08	1.00000	6.54316e-08	1.00000
rad9	3.40575e-08	1.00000	6.30728e-08	1.00000
rad1	3.40557e-08	1.00000	6.30695e-08	1.00000
PAH10+CH3	3.19333e-08	1.00000	5.91388e-08	1.00000
rad26	2.68144e-08	1.00000	4.96590e-08	1.00000
PAH1+H	1.84674e-08	1.00000	3.42007e-08	1.00000
rad22	1.76277e-08	1.00000	3.26456e-08	1.00000
rad13	1.58013e-08	1.00000	2.92631e-08	1.00000
rad70	1.44514e-08	1.00000	2.67632e-08	1.00000
rad10	1.03703e-08	1.00000	1.92053e-08	1.00000
rad58	7.21581e-09	1.00000	1.33633e-08	1.00000
rad71	6.59240e-09	1.00000	1.22088e-08	1.00000
rad65	5.16081e-09	1.00000	9.55755e-09	1.00000
rad55	5.12344e-09	1.00000	9.48835e-09	1.00000
rad73	4.66047e-09	1.00000	8.63096e-09	1.00000
rad3	3.87183e-09	1.00000	7.17044e-09	1.00000
rad62	2.95125e-09	1.00000	5.46557e-09	1.00000
rad4	2.82688e-09	1.00000	5.23524e-09	1.00000
rad34	1.81649e-09	1.00000	3.36405e-09	1.00000
rad18	1.48465e-09	1.00000	2.74950e-09	1.00000
rad43	1.22878e-09	1.00000	2.27563e-09	1.00000
rad24	5.90179e-10	1.00000	1.09298e-09	1.00000
rad33	4.41701e-10	1.00000	8.18008e-10	1.00000
rad72	2.26243e-10	1.00000	4.18991e-10	1.00000
rad64	1.87019e-10	1.00000	3.46350e-10	1.00000
rad53	1.68718e-10	1.00000	3.12457e-10	1.00000
PAH8+H	1.01663e-10	1.00000	1.88274e-10	1.00000
rad56	6.48464e-11	1.00000	1.20092e-10	1.00000
rad42	4.64607e-11	1.00000	8.60429e-11	1.00000

rad41	3.80315e-11	1.00000	7.04324e-11	1.00000
rad61	3.74562e-11	1.00000	6.93669e-11	1.00000
rad68syn	3.04709e-11	1.00000	5.64307e-11	1.00000
rad25	2.96492e-11	1.00000	5.49089e-11	1.00000
rad68anti	1.99871e-11	1.00000	3.70151e-11	1.00000
rad40syn	1.37092e-11	1.00000	2.53888e-11	1.00000
rad40anti	9.56779e-12	1.00000	1.77191e-11	1.00000
rad15	9.51528e-12	1.00000	1.76218e-11	1.00000
rad12	8.61617e-12	1.00000	1.59567e-11	1.00000
rad14	7.86174e-12	1.00000	1.45595e-11	1.00000
rad27	7.78187e-12	1.00000	1.44116e-11	1.00000
rad31	1.73009e-13	1.00000	3.20403e-13	1.00000
rad8	3.09417e-14	1.00000	5.73025e-14	1.00000
rad47	2.08975e-15	1.00000	3.87012e-15	1.00000
rad5	8.87462e-16	1.00000	1.64353e-15	1.00000

1.00000000 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.11079e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.550749	0.550749	0.00000	0.00000
Indene+H	0.439799	0.990548	0.978961	0.978961
Ph+Allene	0.00299647	0.993544	0.00666992	0.985631
PhCCH+CH3	0.00208113	0.995626	0.00463245	0.990263
PhCHCCH2+H	0.00194423	0.997570	0.00432771	0.994591
PhCH2CCH+H	0.00132250	0.998892	0.00294378	0.997535
Ph+MeAc	0.000277452	0.999170	0.000617589	0.998152
PAH7+H	0.000179641	0.999349	0.000399869	0.998552
PhCCCH3+H	0.000148057	0.999497	0.000329564	0.998882
rad30	0.000123019	0.999620	0.000273830	0.999156
PAH9+H	0.000113348	0.999734	0.000252304	0.999408
rad6	9.85325e-05	0.999832	0.000219326	0.999627
rad38	4.32985e-05	0.999876	9.63794e-05	0.999724
rad39	4.05511e-05	0.999916	9.02638e-05	0.999814
rad19anti	2.72076e-05	0.999943	6.05622e-05	0.999875
rad35	2.41447e-05	0.999968	5.37442e-05	0.999928
PAH3+H	1.09292e-05	0.999979	2.43275e-05	0.999953
rad46	7.73213e-06	0.999986	1.72112e-05	0.999970
rad60syn	2.99591e-06	0.999989	6.66867e-06	0.999976
rad23	2.28630e-06	0.999992	5.08913e-06	0.999982
rad60anti	1.70333e-06	0.999993	3.79149e-06	0.999985
rad59	1.43320e-06	0.999995	3.19020e-06	0.999989
rad50	1.39818e-06	0.999996	3.11224e-06	0.999992
rad19syn	1.02510e-06	0.999997	2.28179e-06	0.999994
rad45	6.68641e-07	0.999998	1.48835e-06	0.999995
rad37	3.08392e-07	0.999998	6.86457e-07	0.999996
rad54	2.98339e-07	0.999998	6.64080e-07	0.999997
rad51	1.79729e-07	0.999999	4.00064e-07	0.999997
PhcycC3H3_A+H	1.70963e-07	0.999999	3.80551e-07	0.999998
rad28	1.16247e-07	0.999999	2.58757e-07	0.999998
rad67	1.13076e-07	0.999999	2.51699e-07	0.999998
rad7	1.03592e-07	0.999999	2.30588e-07	0.999998
rad11	9.45803e-08	0.999999	2.10529e-07	0.999999
rad20	8.06846e-08	0.999999	1.79598e-07	0.999999
rad52	7.60403e-08	0.999999	1.69260e-07	0.999999
rad36	6.00186e-08	0.999999	1.33597e-07	0.999999
rad2	5.77324e-08	0.999999	1.28508e-07	0.999999
rad21	5.17562e-08	0.999999	1.15205e-07	0.999999
PAH10+CH3	4.45942e-08	1.000000	9.92634e-08	0.999999
rad70	3.76859e-08	1.000000	8.38860e-08	0.999999
PAH1+H	3.76702e-08	1.000000	8.38512e-08	1.000000
rad9	2.87187e-08	1.000000	6.39258e-08	1.000000
rad58	2.35156e-08	1.000000	5.23440e-08	1.000000
rad13	1.85808e-08	1.000000	4.13594e-08	1.000000
rad55	1.32982e-08	1.000000	2.96008e-08	1.000000
rad1	1.20821e-08	1.000000	2.68938e-08	1.000000
rad22	1.19503e-08	1.000000	2.66006e-08	1.000000
rad26	1.11587e-08	1.000000	2.48384e-08	1.000000
rad10	8.58716e-09	1.000000	1.91144e-08	1.000000
rad62	5.89462e-09	1.000000	1.31210e-08	1.000000
rad65	5.18280e-09	1.000000	1.15365e-08	1.000000
rad34	5.05740e-09	1.000000	1.12574e-08	1.000000
rad71	3.72129e-09	1.000000	8.28331e-09	1.000000
rad18	3.38961e-09	1.000000	7.54503e-09	1.000000
rad73	2.67393e-09	1.000000	5.95198e-09	1.000000
rad3	1.50979e-09	1.000000	3.36067e-09	1.000000

rad43	1.50783e-09	1.000000	3.35632e-09	1.000000
rad4	1.13173e-09	1.000000	2.51916e-09	1.000000
rad53	5.93603e-10	1.000000	1.32132e-09	1.000000
rad24	4.55981e-10	1.000000	1.01498e-09	1.000000
rad33	3.88338e-10	1.000000	8.64412e-10	1.000000
rad64	2.95463e-10	1.000000	6.57678e-10	1.000000
rad56	2.43941e-10	1.000000	5.42995e-10	1.000000
rad72	1.26633e-10	1.000000	2.81875e-10	1.000000
rad42	1.07652e-10	1.000000	2.39626e-10	1.000000
PAH8+H	8.00211e-11	1.000000	1.78121e-10	1.000000
rad68syn	5.47518e-11	1.000000	1.21873e-10	1.000000
rad25	3.89879e-11	1.000000	8.67841e-11	1.000000
rad68anti	3.64052e-11	1.000000	8.10353e-11	1.000000
rad41	2.76283e-11	1.000000	6.14985e-11	1.000000
rad61	2.41388e-11	1.000000	5.37312e-11	1.000000
rad40syn	1.28971e-11	1.000000	2.87079e-11	1.000000
rad12	1.26361e-11	1.000000	2.81271e-11	1.000000
rad15	1.18554e-11	1.000000	2.63894e-11	1.000000
rad40anti	7.57067e-12	1.000000	1.68518e-11	1.000000
rad14	7.28964e-12	1.000000	1.62262e-11	1.000000
rad27	6.06716e-12	1.000000	1.35051e-11	1.000000
rad8	3.02944e-13	1.000000	6.74332e-13	1.000000
rad31	1.08208e-13	1.000000	2.40864e-13	1.000000
rad47	1.62651e-15	1.000000	3.62048e-15	1.000000
rad5	1.08165e-15	1.000000	2.40768e-15	1.000000

1.00000000 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.84330e-15 (1.00)	3.30082e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.626743	0.626743	0.00000	0.00000
Indene+H	0.361104	0.987847	0.967442	0.967442
Ph+Allene	0.00426510	0.992112	0.0114267	0.978869
PhCHCCH2+H	0.00242723	0.994539	0.00650284	0.985372
PhCH2CCH+H	0.00220976	0.996749	0.00592022	0.991292
PhCCH+CH3	0.00203281	0.998782	0.00544613	0.996738
Ph+MeAc	0.000271635	0.999054	0.000727744	0.997466
PAH7+H	0.000221162	0.999275	0.000592519	0.998058
PAH9+H	0.000167346	0.999442	0.000448340	0.998506
rad30	0.000155356	0.999597	0.000416217	0.998923
PhCCCH3+H	0.000116555	0.999714	0.000312264	0.999235
rad38	6.53590e-05	0.999779	0.000175105	0.999410
rad39	4.81375e-05	0.999827	0.000128966	0.999539
rad19anti	4.81125e-05	0.999876	0.000128899	0.999668
rad6	3.49735e-05	0.999911	9.36982e-05	0.999762
rad35	3.45127e-05	0.999945	9.24638e-05	0.999854
PAH3+H	2.21308e-05	0.999967	5.92910e-05	0.999913
rad46	1.29267e-05	0.999980	3.46323e-05	0.999948
rad60syn	4.87477e-06	0.999985	1.30601e-05	0.999961
rad60anti	2.81884e-06	0.999988	7.55201e-06	0.999969
rad59	2.76987e-06	0.999991	7.42080e-06	0.999976
rad50	2.73752e-06	0.999993	7.33414e-06	0.999983
rad19syn	1.86264e-06	0.999995	4.99023e-06	0.999988
rad23	1.12454e-06	0.999996	3.01279e-06	0.999991
rad54	5.79744e-07	0.999997	1.55320e-06	0.999993
PhcycC3H3_A+H	3.85951e-07	0.999997	1.03401e-06	0.999994
rad37	3.73824e-07	0.999998	1.00152e-06	0.999995
rad45	3.45049e-07	0.999998	9.24427e-07	0.999996
rad67	3.11725e-07	0.999998	8.35150e-07	0.999997
rad51	3.06325e-07	0.999999	8.20683e-07	0.999998
rad52	1.45035e-07	0.999999	3.88565e-07	0.999998
rad11	9.20588e-08	0.999999	2.46637e-07	0.999998
rad7	8.41406e-08	0.999999	2.25423e-07	0.999998
rad70	8.34246e-08	0.999999	2.23505e-07	0.999999
PAH10+CH3	8.32575e-08	0.999999	2.23057e-07	0.999999
PAH1+H	8.03898e-08	0.999999	2.15374e-07	0.999999
rad58	6.38880e-08	0.999999	1.71164e-07	0.999999
rad20	5.30018e-08	0.999999	1.41998e-07	0.999999
rad28	4.67675e-08	0.999999	1.25296e-07	1.000000
rad21	3.19575e-08	0.999999	8.56181e-08	1.000000
rad36	3.14984e-08	0.999999	8.43879e-08	1.000000
rad55	2.81856e-08	0.999999	7.55125e-08	1.000000
rad9	2.36037e-08	0.999999	6.32372e-08	1.000000
rad2	1.91222e-08	0.999999	5.12308e-08	1.000000
rad13	1.46226e-08	0.999999	3.91758e-08	1.000000
rad34	1.23636e-08	0.999999	3.31236e-08	1.000000

rad62	1.00595e-08	1.000000	2.69507e-08	1.000000
rad65	9.38172e-09	1.000000	2.51347e-08	1.000000
rad22	7.66443e-09	1.000000	2.05339e-08	1.000000
rad10	6.76002e-09	1.000000	1.81109e-08	1.000000
rad18	6.18416e-09	1.000000	1.65681e-08	1.000000
rad26	4.92269e-09	1.000000	1.31885e-08	1.000000
rad1	4.16654e-09	1.000000	1.11627e-08	1.000000
rad71	2.29449e-09	1.000000	6.14720e-09	1.000000
rad43	1.93772e-09	1.000000	5.19139e-09	1.000000
rad73	1.85877e-09	1.000000	4.97988e-09	1.000000
rad53	1.69525e-09	1.000000	4.54178e-09	1.000000
rad56	8.11488e-10	1.000000	2.17407e-09	1.000000
rad64	6.67489e-10	1.000000	1.78828e-09	1.000000
rad3	5.91351e-10	1.000000	1.58430e-09	1.000000
rad4	4.50260e-10	1.000000	1.20630e-09	1.000000
rad24	3.33375e-10	1.000000	8.93153e-10	1.000000
rad33	2.50828e-10	1.000000	6.71998e-10	1.000000
rad42	2.28225e-10	1.000000	6.11441e-10	1.000000
rad68syn	1.62561e-10	1.000000	4.35520e-10	1.000000
PAH8+H	1.58287e-10	1.000000	4.24070e-10	1.000000
rad68anti	1.08177e-10	1.000000	2.89820e-10	1.000000
rad72	7.02570e-11	1.000000	1.88227e-10	1.000000
rad25	3.67725e-11	1.000000	9.85180e-11	1.000000
rad41	3.03747e-11	1.000000	8.13775e-11	1.000000
rad40syn	2.99119e-11	1.000000	8.01375e-11	1.000000
rad61	2.80451e-11	1.000000	7.51363e-11	1.000000
rad15	1.78682e-11	1.000000	4.78710e-11	1.000000
rad12	1.57493e-11	1.000000	4.21944e-11	1.000000
rad40anti	1.49085e-11	1.000000	3.99418e-11	1.000000
rad14	4.97738e-12	1.000000	1.33350e-11	1.000000
rad27	3.15776e-12	1.000000	8.46003e-12	1.000000
rad8	9.89865e-13	1.000000	2.65197e-12	1.000000
rad31	6.67383e-14	1.000000	1.78800e-13	1.000000
rad47	2.33727e-15	1.000000	6.26183e-15	1.000000
rad5	1.56614e-15	1.000000	4.19588e-15	1.000000

1.00000000 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.52810e-14 (1.00)	4.76647e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.688078	0.688078	0.000000	0.000000
Indene+H	0.296927	0.985005	0.951927	0.951927
Ph+Allene	0.00550632	0.990511	0.0176529	0.969580
PhCH2CCH+H	0.00336297	0.993874	0.0107814	0.980361
PhCHCCH2+H	0.00286612	0.996740	0.00918858	0.989550
PhCCH+CH3	0.00187081	0.998611	0.00599768	0.995548
Ph+MeAc	0.000252859	0.998864	0.000810649	0.996358
PAH7+H	0.000251991	0.999116	0.000807865	0.997166
PAH9+H	0.000233025	0.999349	0.000747060	0.997913
rad30	0.000187146	0.999536	0.000599978	0.998513
rad38	9.29594e-05	0.999629	0.000298021	0.998811
PhCCCH3+H	8.79560e-05	0.999717	0.000281981	0.999093
rad19anti	7.77011e-05	0.999795	0.000249104	0.999342
rad39	5.27651e-05	0.999848	0.000169161	0.999511
rad35	4.67886e-05	0.999894	0.000150001	0.999661
PAH3+H	4.01963e-05	0.999935	0.000128867	0.999790
rad46	2.02284e-05	0.999955	6.48509e-05	0.999855
rad6	1.46058e-05	0.999969	4.68251e-05	0.999902
rad60syn	7.32163e-06	0.999977	2.34726e-05	0.999925
rad50	5.40708e-06	0.999982	1.73347e-05	0.999943
rad59	4.81796e-06	0.999987	1.54460e-05	0.999958
rad60anti	4.29565e-06	0.999991	1.37716e-05	0.999972
rad19syn	2.96505e-06	0.999994	9.50574e-06	0.999981
rad54	9.75831e-07	0.999995	3.12844e-06	0.999985
rad67	7.45531e-07	0.999996	2.39012e-06	0.999987
PhcycC3H3_A+H	7.42328e-07	0.999997	2.37985e-06	0.999989
rad51	6.73504e-07	0.999997	2.15921e-06	0.999992
rad23	5.96612e-07	0.999998	1.91269e-06	0.999993
rad37	4.67752e-07	0.999998	1.49958e-06	0.999995
rad52	3.06833e-07	0.999999	9.83684e-07	0.999996
rad45	1.83151e-07	0.999999	5.87168e-07	0.999996
PAH10+CH3	1.69057e-07	0.999999	5.41983e-07	0.999997
rad70	1.60263e-07	0.999999	5.13793e-07	0.999998
PAH1+H	1.55677e-07	0.999999	4.99090e-07	0.999998
rad58	1.48997e-07	1.000000	4.77674e-07	0.999999
rad11	7.52768e-08	1.000000	2.41332e-07	0.999999

rad7	7.08881e-08	1.000000	2.27262e-07	0.999999
rad55	5.11038e-08	1.000000	1.63835e-07	0.999999
rad20	3.19930e-08	1.000000	1.02567e-07	0.999999
rad34	2.61095e-08	1.000000	8.37052e-08	0.999999
rad28	2.16689e-08	1.000000	6.94691e-08	0.999999
rad65	2.08530e-08	1.000000	6.68532e-08	0.999999
rad9	1.89469e-08	1.000000	6.07424e-08	1.000000
rad21	1.88631e-08	1.000000	6.04737e-08	1.000000
rad36	1.69583e-08	1.000000	5.43672e-08	1.000000
rad62	1.51509e-08	1.000000	4.85727e-08	1.000000
rad13	8.66108e-09	1.000000	2.77668e-08	1.000000
rad18	7.46964e-09	1.000000	2.39471e-08	1.000000
rad2	6.36338e-09	1.000000	2.04005e-08	1.000000
rad22	5.56708e-09	1.000000	1.78477e-08	1.000000
rad10	4.16832e-09	1.000000	1.33633e-08	1.000000
rad53	4.00330e-09	1.000000	1.28343e-08	1.000000
rad73	2.69848e-09	1.000000	8.65113e-09	1.000000
rad71	2.59148e-09	1.000000	8.30810e-09	1.000000
rad43	2.45069e-09	1.000000	7.85673e-09	1.000000
rad26	2.35187e-09	1.000000	7.53992e-09	1.000000
rad56	2.20875e-09	1.000000	7.08111e-09	1.000000
rad64	1.47782e-09	1.000000	4.73777e-09	1.000000
rad1	1.41918e-09	1.000000	4.54980e-09	1.000000
PAH8+H	5.11834e-10	1.000000	1.64090e-09	1.000000
rad68syn	4.64862e-10	1.000000	1.49031e-09	1.000000
rad42	4.22920e-10	1.000000	1.35585e-09	1.000000
rad68anti	3.08279e-10	1.000000	9.88319e-10	1.000000
rad24	2.44007e-10	1.000000	7.82269e-10	1.000000
rad3	2.35448e-10	1.000000	7.54829e-10	1.000000
rad4	1.81244e-10	1.000000	5.81054e-10	1.000000
rad33	1.48603e-10	1.000000	4.76411e-10	1.000000
rad40syn	9.27377e-11	1.000000	2.97310e-10	1.000000
rad61	6.85763e-11	1.000000	2.19851e-10	1.000000
rad72	5.13336e-11	1.000000	1.64572e-10	1.000000
rad41	4.62293e-11	1.000000	1.48208e-10	1.000000
rad40anti	4.62055e-11	1.000000	1.48131e-10	1.000000
rad15	3.74022e-11	1.000000	1.19909e-10	1.000000
rad25	2.75954e-11	1.000000	8.84689e-11	1.000000
rad12	1.79648e-11	1.000000	5.75937e-11	1.000000
rad14	2.75386e-12	1.000000	8.82869e-12	1.000000
rad8	1.89670e-12	1.000000	6.08068e-12	1.000000
rad27	1.33132e-12	1.000000	4.26811e-12	1.000000
rad31	4.11181e-14	1.000000	1.31822e-13	1.000000
rad47	4.91446e-15	1.000000	1.57554e-14	1.000000
rad5	2.58451e-15	1.000000	8.28577e-15	1.000000

1.00000000 Pa, 1400.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.46691e-14 (1.00)	6.50158e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.736449	0.736449	0.00000	0.00000
Indene+H	0.245650	0.982099	0.932077	0.932077
Ph+Allene	0.00661053	0.988710	0.0250825	0.957160
PhCH2CCH+H	0.00478190	0.993491	0.0181441	0.975304
PhCHCCH2+H	0.00325606	0.996747	0.0123546	0.987658
PhCCH+CH3	0.00165012	0.998398	0.00626111	0.993919
PAH9+H	0.000308907	0.998707	0.00117210	0.995091
PAH7+H	0.000272736	0.998979	0.00103485	0.996126
Ph+MeAc	0.000228357	0.999208	0.000866460	0.996993
rad30	0.000217656	0.999425	0.000825858	0.997819
rad38	0.000125649	0.999551	0.000476753	0.998295
rad19anti	0.000116520	0.999667	0.000442117	0.998737
PAH3+H	6.70004e-05	0.999734	0.000254222	0.998992
PhCCCH3+H	6.52424e-05	0.999800	0.000247551	0.999239
rad35	6.07741e-05	0.999860	0.000230597	0.999470
rad39	5.49620e-05	0.999915	0.000208544	0.999678
rad46	2.97620e-05	0.999945	0.000112927	0.999791
rad60syn	1.03333e-05	0.999956	3.92080e-05	0.999830
rad50	9.97868e-06	0.999965	3.78624e-05	0.999868
rad59	7.71576e-06	0.999973	2.92761e-05	0.999898
rad6	7.42636e-06	0.999981	2.81781e-05	0.999926
rad60anti	6.13938e-06	0.999987	2.32948e-05	0.999949
rad19syn	4.26815e-06	0.999991	1.61948e-05	0.999965
rad67	1.57853e-06	0.999993	5.98946e-06	0.999971
rad54	1.47065e-06	0.999994	5.58014e-06	0.999977
rad51	1.44926e-06	0.999996	5.49895e-06	0.999982

PhcycC3H3_A+H	1.26114e-06	0.999997	4.78519e-06	0.999987
rad37	6.13835e-07	0.999997	2.32909e-06	0.999989
rad52	6.13668e-07	0.999998	2.32846e-06	0.999992
rad23	3.43916e-07	0.999998	1.30493e-06	0.999993
PAH10+CH3	3.41472e-07	0.999999	1.29566e-06	0.999994
rad58	3.07527e-07	0.999999	1.16686e-06	0.999996
rad70	2.75723e-07	0.999999	1.04618e-06	0.999997
PAH1+H	2.73216e-07	1.000000	1.03667e-06	0.999998
rad45	1.00025e-07	1.000000	3.79529e-07	0.999998
rad55	8.21495e-08	1.000000	3.11702e-07	0.999998
rad7	5.10263e-08	1.000000	1.93611e-07	0.999999
rad11	4.90365e-08	1.000000	1.86061e-07	0.999999
rad34	4.89417e-08	1.000000	1.85701e-07	0.999999
rad65	4.45470e-08	1.000000	1.69026e-07	0.999999
rad62	2.07738e-08	1.000000	7.88226e-08	0.999999
rad20	1.95794e-08	1.000000	7.42908e-08	0.999999
rad9	1.48466e-08	1.000000	5.63330e-08	0.999999
rad28	1.19167e-08	1.000000	4.52159e-08	0.999999
rad21	1.14167e-08	1.000000	4.33188e-08	0.999999
rad36	9.38507e-09	1.000000	3.56101e-08	0.999999
rad53	8.12778e-09	1.000000	3.08395e-08	0.999999
rad73	7.04058e-09	1.000000	2.67143e-08	0.999999
rad71	6.42459e-09	1.000000	2.43770e-08	1.000000
rad18	6.20897e-09	1.000000	2.35589e-08	1.000000
rad22	5.19342e-09	1.000000	1.97055e-08	1.000000
rad56	5.07945e-09	1.000000	1.92731e-08	1.000000
rad13	4.62241e-09	1.000000	1.75389e-08	1.000000
rad43	3.06711e-09	1.000000	1.16376e-08	1.000000
rad64	2.95996e-09	1.000000	1.12311e-08	1.000000
rad2	2.14784e-09	1.000000	8.14961e-09	1.000000
rad10	1.95779e-09	1.000000	7.42851e-09	1.000000
PAH8+H	1.56608e-09	1.000000	5.94223e-09	1.000000
rad26	1.19075e-09	1.000000	4.51809e-09	1.000000
rad68syn	1.16050e-09	1.000000	4.40334e-09	1.000000
rad68anti	7.66771e-10	1.000000	2.90938e-09	1.000000
rad42	6.99876e-10	1.000000	2.65556e-09	1.000000
rad1	4.86563e-10	1.000000	1.84618e-09	1.000000
rad40syn	2.61585e-10	1.000000	9.92540e-10	1.000000
rad61	1.97841e-10	1.000000	7.50672e-10	1.000000
rad24	1.80057e-10	1.000000	6.83195e-10	1.000000
rad40anti	1.34639e-10	1.000000	5.10864e-10	1.000000
rad3	9.63463e-11	1.000000	3.65569e-10	1.000000
rad72	9.39939e-11	1.000000	3.56644e-10	1.000000
rad33	8.78622e-11	1.000000	3.33378e-10	1.000000
rad15	8.16339e-11	1.000000	3.09746e-10	1.000000
rad41	7.77671e-11	1.000000	2.95074e-10	1.000000
rad4	7.48242e-11	1.000000	2.83908e-10	1.000000
rad12	1.93333e-11	1.000000	7.33569e-11	1.000000
rad25	1.92056e-11	1.000000	7.28726e-11	1.000000
rad8	2.79592e-12	1.000000	1.06086e-11	1.000000
rad14	1.43606e-12	1.000000	5.44887e-12	1.000000
rad27	5.45313e-13	1.000000	2.06910e-12	1.000000
rad31	2.55187e-14	1.000000	9.68266e-14	1.000000
rad47	1.05426e-14	1.000000	4.00020e-14	1.000000
rad5	4.40113e-15	1.000000	1.66994e-14	1.000000

1.00000000 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.51564e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.774066	0.774066	0.00000	0.00000
Indene+H	0.205059	0.979125	0.907606	0.907606
Ph+Allene	0.00752203	0.986647	0.0332930	0.940899
PhCH2CCH+H	0.00646774	0.993115	0.0286267	0.969526
PhCHCCH2+H	0.00361223	0.996727	0.0159880	0.985514
PhCCH+CH3	0.00141344	0.998140	0.00625599	0.991770
PAH9+H	0.000393227	0.998534	0.00174045	0.993510
PAH7+H	0.000286615	0.998820	0.00126858	0.994779
rad30	0.000246477	0.999067	0.00109093	0.995870
Ph+MeAc	0.000203569	0.999270	0.000901008	0.996771
rad19anti	0.000164241	0.999435	0.000726942	0.997498
rad38	0.000162794	0.999597	0.000720536	0.998218
PAH3+H	0.000104220	0.999702	0.000461284	0.998679
rad35	7.62751e-05	0.999778	0.000337599	0.999017
rad39	5.58736e-05	0.999834	0.000247300	0.999264
PhCCCH3+H	4.88665e-05	0.999883	0.000216286	0.999481

rad46	4.15457e-05	0.999924	0.000183884	0.999664
rad50	1.71015e-05	0.999941	7.56925e-05	0.999740
rad60syn	1.38816e-05	0.999955	6.14411e-05	0.999802
rad59	1.15664e-05	0.999967	5.11937e-05	0.999853
rad60anti	8.33865e-06	0.999975	3.69074e-05	0.999890
rad19syn	5.69206e-06	0.999981	2.51935e-05	0.999915
rad6	4.39699e-06	0.999985	1.94614e-05	0.999934
rad67	3.01451e-06	0.999988	1.33424e-05	0.999948
rad51	2.87378e-06	0.999991	1.27195e-05	0.999960
rad54	2.03455e-06	0.999993	9.00506e-06	0.999969
PhcycC3H3_A+H	1.94512e-06	0.999995	8.60923e-06	0.999978
rad52	1.13196e-06	0.999996	5.01015e-06	0.999983
rad37	8.38651e-07	0.999997	3.71193e-06	0.999987
PAH10+CH3	6.64243e-07	0.999998	2.93998e-06	0.999990
rad58	5.75083e-07	0.999998	2.54535e-06	0.999992
PAH1+H	4.45102e-07	0.999999	1.97005e-06	0.999994
rad70	4.35977e-07	0.999999	1.92966e-06	0.999996
rad23	2.15955e-07	0.999999	9.55830e-07	0.999997
rad55	1.20273e-07	0.999999	5.32338e-07	0.999998
rad65	8.73180e-08	1.000000	3.86475e-07	0.999998
rad34	8.36110e-08	1.000000	3.70068e-07	0.999998
rad45	5.62869e-08	1.000000	2.49129e-07	0.999999
rad7	3.02759e-08	1.000000	1.34003e-07	0.999999
rad11	2.80914e-08	1.000000	1.24335e-07	0.999999
rad62	2.66014e-08	1.000000	1.17740e-07	0.999999
rad73	1.93372e-08	1.000000	8.55877e-08	0.999999
rad71	1.89511e-08	1.000000	8.38787e-08	0.999999
rad53	1.46484e-08	1.000000	6.48350e-08	0.999999
rad20	1.23489e-08	1.000000	5.46572e-08	0.999999
rad9	1.14418e-08	1.000000	5.06422e-08	0.999999
rad56	1.02108e-08	1.000000	4.51939e-08	0.999999
rad28	7.56294e-09	1.000000	3.34741e-08	0.999999
rad21	7.13245e-09	1.000000	3.15687e-08	0.999999
rad22	6.09836e-09	1.000000	2.69917e-08	1.000000
rad64	5.42363e-09	1.000000	2.40054e-08	1.000000
rad36	5.34853e-09	1.000000	2.36730e-08	1.000000
rad18	4.21445e-09	1.000000	1.86534e-08	1.000000
PAH8+H	4.18591e-09	1.000000	1.85271e-08	1.000000
rad43	3.93443e-09	1.000000	1.74141e-08	1.000000
rad68syn	2.56166e-09	1.000000	1.13381e-08	1.000000
rad13	2.43621e-09	1.000000	1.07828e-08	1.000000
rad68anti	1.68688e-09	1.000000	7.46624e-09	1.000000
rad42	1.06334e-09	1.000000	4.70642e-09	1.000000
rad10	7.57652e-10	1.000000	3.35342e-09	1.000000
rad2	7.40269e-10	1.000000	3.27648e-09	1.000000
rad40syn	6.47395e-10	1.000000	2.86541e-09	1.000000
rad26	6.01566e-10	1.000000	2.66257e-09	1.000000
rad61	5.28708e-10	1.000000	2.34010e-09	1.000000
rad40anti	3.44284e-10	1.000000	1.52382e-09	1.000000
rad72	3.08137e-10	1.000000	1.36384e-09	1.000000
rad1	1.69770e-10	1.000000	7.51412e-10	1.000000
rad41	1.35716e-10	1.000000	6.00688e-10	1.000000
rad24	1.34241e-10	1.000000	5.94160e-10	1.000000
rad15	1.30579e-10	1.000000	5.77953e-10	1.000000
rad33	5.24268e-11	1.000000	2.32045e-10	1.000000
rad3	4.07068e-11	1.000000	1.80171e-10	1.000000
rad4	3.18590e-11	1.000000	1.41010e-10	1.000000
rad12	1.99764e-11	1.000000	8.84171e-11	1.000000
rad25	1.32600e-11	1.000000	5.86898e-11	1.000000
rad8	3.57887e-12	1.000000	1.58403e-11	1.000000
rad14	7.66714e-13	1.000000	3.39353e-12	1.000000
rad27	2.33283e-13	1.000000	1.03252e-12	1.000000
rad47	2.09301e-14	1.000000	9.26382e-14	1.000000
rad31	1.60402e-14	1.000000	7.09949e-14	1.000000
rad5	6.85625e-15	1.000000	3.03462e-14	1.000000

1.00000000 Pa, 1750.00000 K

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

Total | 9.18604e-14 (1.00) | 1.49146e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837639	0.837639	0.00000	0.00000
Indene+H	0.133061	0.970700	0.819542	0.819542
PhCH2CCH+H	0.0118058	0.982506	0.0727137	0.892256
Ph+Allene	0.00950191	0.992008	0.0585234	0.950779
PhCHCCH2+H	0.00446805	0.996476	0.0275193	0.978298
PhCCH+CH3	0.000861381	0.997337	0.00530535	0.983604

PAH9+H	0.000556755	0.997894	0.00342912	0.987033
rad30	0.000325001	0.998219	0.00200172	0.989035
rad19anti	0.000321501	0.998540	0.00198016	0.991015
rad38	0.000287195	0.998828	0.00176887	0.992784
PAH7+H	0.000286426	0.999114	0.00176413	0.994548
PAH3+H	0.000275301	0.999389	0.00169561	0.996243
Ph+MeAc	0.000167676	0.999557	0.00103274	0.997276
rad35	0.000110078	0.999667	0.000677987	0.997954
rad46	7.53306e-05	0.999742	0.000463971	0.998418
rad39	5.83405e-05	0.999801	0.000359326	0.998777
rad50	4.37807e-05	0.999845	0.000269650	0.999047
PhCCCH3+H	3.20258e-05	0.999877	0.000197251	0.999244
rad59	2.75341e-05	0.999904	0.000169586	0.999414
rad60syn	2.64500e-05	0.999931	0.000162909	0.999577
rad60anti	1.77453e-05	0.999948	0.000109295	0.999686
rad51	1.07270e-05	0.999959	6.60688e-05	0.999752
rad67	1.00277e-05	0.999969	6.17619e-05	0.999814
rad19syn	8.13520e-06	0.999977	5.01057e-05	0.999864
PhcycC3H3_A+H	4.33940e-06	0.999982	2.67269e-05	0.999891
rad52	3.64252e-06	0.999985	2.24348e-05	0.999913
rad54	3.10713e-06	0.999988	1.91372e-05	0.999932
PAH10+CH3	2.60748e-06	0.999991	1.60598e-05	0.999948
rad58	2.01835e-06	0.999993	1.24313e-05	0.999961
rad37	1.70815e-06	0.999995	1.05207e-05	0.999971
PAH1+H	1.11295e-06	0.999996	6.85482e-06	0.999978
rad70	1.04928e-06	0.999997	6.46264e-06	0.999985
rad6	1.01983e-06	0.999998	6.28125e-06	0.999991
rad65	3.09926e-07	0.999998	1.90887e-06	0.999993
rad71	2.72909e-07	0.999998	1.68088e-06	0.999995
rad34	2.42357e-07	0.999999	1.49271e-06	0.999996
rad55	2.29235e-07	0.999999	1.41189e-06	0.999997
rad73	1.82167e-07	0.999999	1.12199e-06	0.999999
rad23	6.09193e-08	0.999999	3.75209e-07	0.999999
rad53	4.45753e-08	0.999999	2.74545e-07	0.999999
rad62	4.01834e-08	0.999999	2.47494e-07	0.999999
rad56	3.59838e-08	0.999999	2.21629e-07	1.000000
PAH8+H	2.55604e-08	0.999999	1.57430e-07	1.000000
rad72	2.10548e-08	0.999999	1.29679e-07	1.000000
rad64	1.94901e-08	0.999999	1.20042e-07	1.000000
rad68syn	1.21325e-08	0.999999	7.47256e-08	1.000000
rad43	8.61606e-09	0.999999	5.30674e-08	1.000000
rad68anti	7.86695e-09	0.999999	4.84535e-08	1.000000
rad22	6.55315e-09	0.999999	4.03616e-08	1.000000
rad45	5.12211e-09	0.999999	3.15477e-08	1.000000
rad40syn	3.60496e-09	0.999999	2.22034e-08	1.000000
rad61	3.54535e-09	0.999999	2.18363e-08	1.000000
rad7	2.77813e-09	0.999999	1.71109e-08	1.000000
rad11	2.52866e-09	0.999999	1.55743e-08	1.000000
rad42	2.41222e-09	0.999999	1.48572e-08	1.000000
rad28	2.29526e-09	0.999999	1.41368e-08	1.000000
rad40anti	2.16280e-09	0.999999	1.33209e-08	1.000000
rad9	1.38906e-09	0.999999	8.55540e-09	1.000000
rad20	1.26465e-09	0.999999	7.78915e-09	1.000000
rad36	8.64190e-10	0.999999	5.32265e-09	1.000000
rad21	6.66137e-10	0.999999	4.10282e-09	1.000000
rad18	5.84594e-10	0.999999	3.60059e-09	1.000000
rad41	5.66491e-10	0.999999	3.48909e-09	1.000000
rad13	1.40450e-10	0.999999	8.65048e-10	1.000000
rad15	6.85507e-11	0.999999	4.22212e-10	1.000000
rad26	5.72083e-11	0.999999	3.52353e-10	1.000000
rad10	2.72843e-11	0.999999	1.68047e-10	1.000000
rad24	1.70129e-11	0.999999	1.04785e-10	1.000000
rad2	1.25579e-11	0.999999	7.73455e-11	1.000000
rad12	4.26939e-12	0.999999	2.62957e-11	1.000000
rad33	3.32288e-12	0.999999	2.04660e-11	1.000000
rad1	3.09461e-12	0.999999	1.90601e-11	1.000000
rad8	1.74125e-12	0.999999	1.07246e-11	1.000000
rad25	1.29073e-12	0.999999	7.94977e-12	1.000000
rad3	8.68650e-13	0.999999	5.35012e-12	1.000000
rad4	5.49800e-13	0.999999	3.38629e-12	1.000000
rad14	5.22408e-14	0.999999	3.21758e-13	1.000000
rad47	2.48176e-14	0.999999	1.52855e-13	1.000000
rad5	1.45838e-14	0.999999	8.98237e-14	1.000000
rad27	9.08862e-15	0.999999	5.59779e-14	1.000000

1.00000000 Pa, 2000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.47588e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866428	0.866428	0.00000	0.00000
Indene+H	0.0943880	0.960816	0.706645	0.706645
PhCH2CCH+H	0.0189358	0.979752	0.141765	0.848410
Ph+Allene	0.0101091	0.989861	0.0756829	0.924093
PhCHCCH2+H	0.00579099	0.995652	0.0433548	0.967448
PAH9+H	0.000765290	0.996417	0.00572942	0.973177
PhCCH+CH3	0.000550307	0.996967	0.00411993	0.977297
PAH3+H	0.000526248	0.997494	0.00393981	0.981237
rad19anti	0.000486604	0.997980	0.00364301	0.984880
rad38	0.000411566	0.998392	0.00308123	0.987961
rad30	0.000378289	0.998770	0.00283210	0.990793
PAH7+H	0.000350413	0.999121	0.00262340	0.993417
Ph+MeAc	0.000164745	0.999285	0.00123338	0.994650
rad35	0.000155519	0.999441	0.00116431	0.995814
rad46	0.000120122	0.999561	0.000899308	0.996714
rad50	9.58696e-05	0.999657	0.000717737	0.997431
rad39	7.87372e-05	0.999736	0.000589474	0.998021
rad59	4.92027e-05	0.999785	0.000368361	0.998389
rad60syn	4.01110e-05	0.999825	0.000300295	0.998689
PhCCCH3+H	3.61278e-05	0.999861	0.000270474	0.998960
rad51	2.93109e-05	0.999890	0.000219439	0.999179
rad60anti	2.75041e-05	0.999918	0.000205912	0.999385
rad67	2.43951e-05	0.999942	0.000182636	0.999568
rad19syn	1.17121e-05	0.999954	8.76835e-05	0.999656
rad52	8.85168e-06	0.999963	6.62690e-05	0.999722
PAH10+CH3	7.72931e-06	0.999971	5.78663e-05	0.999780
PhcycC3H3_A+H	7.45246e-06	0.999978	5.57936e-05	0.999836
rad58	5.03696e-06	0.999983	3.77097e-05	0.999873
rad54	4.34844e-06	0.999987	3.25550e-05	0.999906
rad37	3.43703e-06	0.999991	2.57317e-05	0.999932
PAH1+H	2.75185e-06	0.999994	2.06020e-05	0.999952
rad70	2.09382e-06	0.999996	1.56756e-05	0.999968
rad71	1.09785e-06	0.999997	8.21914e-06	0.999976
rad65	8.20337e-07	0.999998	6.14154e-06	0.999982
rad73	7.52797e-07	0.999998	5.63589e-06	0.999988
rad34	5.52448e-07	0.999999	4.13596e-06	0.999992
rad55	3.53474e-07	0.999999	2.64632e-06	0.999995
PAH8+H	1.14933e-07	0.999999	8.60459e-07	0.999995
rad6	1.08790e-07	0.999999	8.14467e-07	0.999996
rad53	9.73893e-08	1.000000	7.29115e-07	0.999997
rad56	9.23615e-08	1.000000	6.91473e-07	0.999998
rad62	6.01127e-08	1.000000	4.50040e-07	0.999998
rad64	5.58714e-08	1.000000	4.18287e-07	0.999999
rad72	4.83489e-08	1.000000	3.61969e-07	0.999999
rad68syn	4.11608e-08	1.000000	3.08155e-07	0.999999
rad68anti	2.65558e-08	1.000000	1.98813e-07	0.999999
rad23	2.27837e-08	1.000000	1.70573e-07	1.000000
rad43	2.20294e-08	1.000000	1.64925e-07	1.000000
rad61	1.54329e-08	1.000000	1.15540e-07	1.000000
rad40syn	1.44360e-08	1.000000	1.08076e-07	1.000000
rad40anti	9.10594e-09	1.000000	6.81725e-08	1.000000
rad42	4.94995e-09	1.000000	3.70583e-08	1.000000
rad41	1.99437e-09	1.000000	1.49311e-08	1.000000
rad45	1.70099e-09	1.000000	1.27347e-08	1.000000
rad22	1.63560e-09	1.000000	1.22451e-08	1.000000
rad9	7.06076e-10	1.000000	5.28611e-09	1.000000
rad11	5.42080e-10	1.000000	4.05834e-09	1.000000
rad20	5.30236e-10	1.000000	3.96967e-09	1.000000
rad7	4.27010e-10	1.000000	3.19685e-09	1.000000
rad28	3.66843e-10	1.000000	2.74641e-09	1.000000
rad36	2.95164e-10	1.000000	2.20978e-09	1.000000
rad21	2.72655e-10	1.000000	2.04126e-09	1.000000
rad18	1.63172e-10	1.000000	1.22160e-09	1.000000
rad15	3.66847e-11	1.000000	2.74643e-10	1.000000
rad13	3.15291e-11	1.000000	2.36046e-10	1.000000
rad24	9.49350e-12	1.000000	7.10741e-11	1.000000
rad26	7.07587e-12	1.000000	5.29742e-11	1.000000
rad12	3.72966e-12	1.000000	2.79225e-11	1.000000
rad10	2.60383e-12	1.000000	1.94939e-11	1.000000
rad8	2.00230e-12	1.000000	1.49904e-11	1.000000
rad2	1.16494e-12	1.000000	8.72147e-12	1.000000
rad33	1.02722e-12	1.000000	7.69037e-12	1.000000
rad25	5.51648e-13	1.000000	4.12997e-12	1.000000
rad1	3.01594e-13	1.000000	2.25791e-12	1.000000
rad3	1.49065e-13	1.000000	1.11599e-12	1.000000
rad4	9.50607e-14	1.000000	7.11682e-13	1.000000
rad47	6.73777e-14	1.000000	5.04430e-13	1.000000

rad5	1.97602e-14	1.000000	1.47937e-13	1.00000
rad14	1.44294e-14	1.000000	1.08028e-13	1.00000
rad27	2.37501e-15	1.000000	1.77807e-14	1.00000

1.00000000 Pa, 2250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	4.00875e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.878204	0.878204	0.00000	0.00000
Indene+H	0.0703001	0.948504	0.577194	0.577194
PhCH2CCH+H	0.0277459	0.976250	0.227806	0.805000
Ph+Allene	0.0105974	0.986847	0.0870092	0.892009
PhCHCCH2+H	0.00765657	0.994504	0.0628636	0.954873
PAH9+H	0.000941872	0.995446	0.00773317	0.962606
PAH3+H	0.000857237	0.996303	0.00703828	0.969644
rad19anti	0.000629227	0.996932	0.00516622	0.974810
rad38	0.000525532	0.997458	0.00431484	0.979125
PAH7+H	0.000454511	0.997912	0.00373172	0.982857
rad30	0.000417263	0.998330	0.00342590	0.986283
PhCCH+CH3	0.000383689	0.998713	0.00315025	0.989433
rad35	0.000200866	0.998914	0.00164920	0.991082
Ph+MeAc	0.000197882	0.999112	0.00162469	0.992707
rad50	0.000170957	0.999283	0.00140363	0.994111
rad46	0.000166545	0.999450	0.00136741	0.995478
rad39	0.000118819	0.999568	0.000975555	0.996454
rad59	7.57692e-05	0.999644	0.000622097	0.997076
rad51	6.22822e-05	0.999706	0.000511363	0.997587
rad60syn	5.44510e-05	0.999761	0.000447066	0.998034
PhCCCH3+H	5.15898e-05	0.999812	0.000423574	0.998458
rad67	4.61783e-05	0.999859	0.000379144	0.998837
rad60anti	3.79865e-05	0.999897	0.000311885	0.999149
PAH10+CH3	1.71939e-05	0.999914	0.000141169	0.999290
rad52	1.70867e-05	0.999931	0.000140289	0.999430
rad19syn	1.63940e-05	0.999947	0.000134602	0.999565
PhcycC3H3_A+H	1.10295e-05	0.999958	9.05565e-05	0.999655
rad58	1.00660e-05	0.999968	8.26460e-05	0.999738
PAH1+H	5.96829e-06	0.999974	4.90022e-05	0.999787
rad37	5.72360e-06	0.999980	4.69932e-05	0.999834
rad54	5.39729e-06	0.999985	4.43141e-05	0.999878
rad71	3.96846e-06	0.999989	3.25827e-05	0.999911
rad70	3.69414e-06	0.999993	3.03305e-05	0.999941
rad73	2.41822e-06	0.999996	1.98546e-05	0.999961
rad65	1.68560e-06	0.999997	1.38395e-05	0.999975
rad34	1.08376e-06	0.999998	8.89812e-06	0.999984
rad55	4.74104e-07	0.999999	3.89260e-06	0.999988
PAH8+H	3.92118e-07	0.999999	3.21946e-06	0.999991
rad72	2.11516e-07	0.999999	1.73663e-06	0.999993
rad56	1.86245e-07	1.000000	1.52915e-06	0.999994
rad53	1.73227e-07	1.000000	1.42227e-06	0.999996
rad64	1.33646e-07	1.000000	1.09729e-06	0.999997
rad68syn	1.10283e-07	1.000000	9.05466e-07	0.999998
rad62	9.48500e-08	1.000000	7.78759e-07	0.999998
rad68anti	7.08919e-08	1.000000	5.82052e-07	0.999999
rad43	4.82414e-08	1.000000	3.96082e-07	0.999999
rad61	4.62589e-08	1.000000	3.79805e-07	1.000000
rad40syn	4.43361e-08	1.000000	3.64018e-07	1.000000
rad40anti	2.91847e-08	1.000000	2.39619e-07	1.000000
rad6	1.32261e-08	1.000000	1.08592e-07	1.000000
rad42	1.00426e-08	1.000000	8.24543e-08	1.000000
rad23	5.59550e-09	1.000000	4.59414e-08	1.000000
rad41	5.35248e-09	1.000000	4.39461e-08	1.000000
rad45	6.56856e-10	1.000000	5.39307e-09	1.000000
rad22	4.14969e-10	1.000000	3.40707e-09	1.000000
rad9	3.66559e-10	1.000000	3.00961e-09	1.000000
rad20	2.60869e-10	1.000000	2.14184e-09	1.000000
rad11	1.64190e-10	1.000000	1.34807e-09	1.000000
rad21	1.30179e-10	1.000000	1.06883e-09	1.000000
rad36	1.16678e-10	1.000000	9.57978e-10	1.000000
rad7	9.54199e-11	1.000000	7.83438e-10	1.000000
rad18	6.19713e-11	1.000000	5.08811e-10	1.000000
rad28	5.34439e-11	1.000000	4.38797e-10	1.000000
rad15	2.12993e-11	1.000000	1.74877e-10	1.000000
rad13	8.57662e-12	1.000000	7.04177e-11	1.000000
rad24	5.70000e-12	1.000000	4.67994e-11	1.000000
rad12	3.05355e-12	1.000000	2.50709e-11	1.000000
rad26	2.34446e-12	1.000000	1.92490e-11	1.000000

rad8	2.16865e-12	1.00000	1.78056e-11	1.00000
rad10	7.50580e-13	1.00000	6.16257e-12	1.00000
rad33	3.63694e-13	1.00000	2.98608e-12	1.00000
rad25	2.84627e-13	1.00000	2.33690e-12	1.00000
rad2	1.75429e-13	1.00000	1.44034e-12	1.00000
rad47	1.41415e-13	1.00000	1.16108e-12	1.00000
rad1	4.94168e-14	1.00000	4.05733e-13	1.00000
rad3	3.23962e-14	1.00000	2.65986e-13	1.00000
rad5	2.14406e-14	1.00000	1.76037e-13	1.00000
rad4	2.05981e-14	1.00000	1.69119e-13	1.00000
rad14	5.34939e-15	1.00000	4.39207e-14	1.00000
rad27	1.32832e-15	1.00000	1.09061e-14	1.00000

1.0000000 Pa, 2500.00000 K

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

Total | 5.32896e-13 (1.00) | 6.40311e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.879843	0.879843	0.00000	0.00000
Indene+H	0.0541637	0.934007	0.450776	0.450776
PhCH2CCH+H	0.0379681	0.971975	0.315989	0.766765
Ph+Allene	0.0112444	0.983219	0.0935811	0.860346
PhCHCCH2+H	0.00999485	0.993214	0.0831818	0.943528
PAH3+H	0.00124356	0.994458	0.0103495	0.953877
PAH9+H	0.00106545	0.995523	0.00886719	0.962745
rad19anti	0.000731027	0.996254	0.00608395	0.968829
rad38	0.000614396	0.996868	0.00511329	0.973942
PAH7+H	0.000586820	0.997455	0.00488379	0.978826
rad30	0.000442203	0.997898	0.00368022	0.982506
PhCCH+CH3	0.000309129	0.998207	0.00257272	0.985079
rad50	0.000261684	0.998468	0.00217786	0.987256
Ph+MeAc	0.000256973	0.998725	0.00213865	0.989395
rad35	0.000242193	0.998967	0.00201564	0.991411
rad46	0.000207880	0.999175	0.00173007	0.993141
rad39	0.000175777	0.999351	0.00146290	0.994604
rad51	0.000109654	0.999461	0.000912596	0.995516
rad59	0.000104825	0.999566	0.000872406	0.996389
rad67	7.34548e-05	0.999639	0.000611325	0.997000
PhCCCH3+H	7.22810e-05	0.999711	0.000601556	0.997602
rad60syn	6.81857e-05	0.999780	0.000567474	0.998169
rad60anti	4.82378e-05	0.999828	0.000401457	0.998570
PAH10+CH3	3.09001e-05	0.999859	0.000257165	0.998828
rad52	2.78087e-05	0.999886	0.000231437	0.999059
rad19syn	2.34812e-05	0.999910	0.000195422	0.999255
rad58	1.71635e-05	0.999927	0.000142842	0.999397
PhcycC3H3_A+H	1.49444e-05	0.999942	0.000124374	0.999522
PAH1+H	1.13021e-05	0.999953	9.40615e-05	0.999616
rad71	1.08679e-05	0.999964	9.04476e-05	0.999706
rad37	8.12869e-06	0.999972	6.76508e-05	0.999774
rad54	6.28008e-06	0.999979	5.22658e-05	0.999826
rad70	5.97103e-06	0.999985	4.96937e-05	0.999876
rad73	5.95885e-06	0.999991	4.95924e-05	0.999925
rad65	2.87610e-06	0.999993	2.39363e-05	0.999949
rad34	1.90627e-06	0.999995	1.58648e-05	0.999965
PAH8+H	1.06531e-06	0.999996	8.86602e-06	0.999974
rad72	7.15874e-07	0.999997	5.95784e-06	0.999980
rad55	5.87561e-07	0.999998	4.88996e-06	0.999985
rad56	3.21891e-07	0.999998	2.67892e-06	0.999988
rad64	2.70868e-07	0.999998	2.25429e-06	0.999990
rad53	2.70830e-07	0.999999	2.25397e-06	0.999992
rad68syn	2.47512e-07	0.999999	2.05991e-06	0.999994
rad68anti	1.58688e-07	0.999999	1.32068e-06	0.999996
rad62	1.55156e-07	0.999999	1.29128e-06	0.999997
rad40syn	1.10739e-07	0.999999	9.21624e-07	0.999998
rad61	1.05683e-07	0.999999	8.79542e-07	0.999999
rad43	8.79698e-08	0.999999	7.32126e-07	0.999999
rad40anti	7.53477e-08	1.000000	6.27079e-07	1.000000
rad42	1.97258e-08	1.000000	1.64167e-07	1.000000
rad41	1.13878e-08	1.000000	9.47747e-08	1.000000
rad6	2.37965e-09	1.000000	1.98045e-08	1.000000
rad23	1.68032e-09	1.000000	1.39844e-08	1.000000
rad45	2.85508e-10	1.000000	2.37613e-09	1.000000
rad9	1.94891e-10	1.000000	1.62198e-09	1.000000
rad20	1.44101e-10	1.000000	1.19928e-09	1.000000
rad22	1.41600e-10	1.000000	1.17846e-09	1.000000
rad21	6.95839e-11	1.000000	5.79110e-10	1.000000
rad11	6.30676e-11	1.000000	5.24878e-10	1.000000

rad36	5.16998e-11	1.000000	4.30270e-10	1.00000
rad18	2.78732e-11	1.000000	2.31974e-10	1.00000
rad7	2.67252e-11	1.000000	2.22420e-10	1.00000
rad15	1.26522e-11	1.000000	1.05297e-10	1.00000
rad28	1.25225e-11	1.000000	1.04218e-10	1.00000
rad24	3.60418e-12	1.000000	2.99957e-11	1.00000
rad13	2.74926e-12	1.000000	2.28806e-11	1.00000
rad12	2.40049e-12	1.000000	1.99780e-11	1.00000
rad8	2.25274e-12	1.000000	1.87484e-11	1.00000
rad26	1.28536e-12	1.000000	1.06974e-11	1.00000
rad10	4.12602e-13	1.000000	3.43387e-12	1.00000
rad47	2.44583e-13	1.000000	2.03553e-12	1.00000
rad25	1.71276e-13	1.000000	1.42544e-12	1.00000
rad33	1.46766e-13	1.000000	1.22145e-12	1.00000
rad2	5.23630e-14	1.000000	4.35789e-13	1.00000
rad5	2.20981e-14	1.000000	1.83910e-13	1.00000
rad1	1.69319e-14	1.000000	1.40915e-13	1.00000
rad3	8.84365e-15	1.000000	7.36010e-14	1.00000
rad4	5.54134e-15	1.000000	4.61177e-14	1.00000
rad14	2.68879e-15	1.000000	2.23774e-14	1.00000
rad27	1.07563e-15	1.000000	8.95190e-15	1.00000

1.00000000 Pa, 2750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.05113e-13 (1.00)	1.00487e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.875189	0.875189	0.00000	0.00000
PhCH2CCH+H	0.0492371	0.924426	0.394492	0.394492
Indene+H	0.0427171	0.967143	0.342254	0.736746
PhCHCCH2+H	0.0126523	0.979795	0.101371	0.838117
Ph+Allene	0.0121360	0.991931	0.0972347	0.935352
PAH3+H	0.00165412	0.993586	0.0132530	0.948605
PAH9+H	0.00112925	0.994715	0.00904762	0.957652
rad19anti	0.000790044	0.995505	0.00632991	0.963982
PAH7+H	0.000729335	0.996234	0.00584350	0.969826
rad38	0.000670523	0.996905	0.00537229	0.975198
rad30	0.000454283	0.997359	0.00363976	0.978838
rad50	0.000356825	0.997716	0.00285892	0.981697
Ph+MeAc	0.000331297	0.998047	0.00265439	0.984351
PhCCH+CH3	0.000293338	0.998341	0.00235025	0.986701
rad35	0.000276886	0.998617	0.00221844	0.988920
rad39	0.000242692	0.998860	0.00194447	0.990864
rad46	0.000239377	0.999099	0.00191791	0.992782
rad51	0.000167555	0.999267	0.00134247	0.994125
rad59	0.000133898	0.999401	0.00107280	0.995197
rad67	0.000103303	0.999504	0.000827674	0.996025
PhCCCH3+H	9.47597e-05	0.999599	0.000759224	0.996784
rad60syn	8.03400e-05	0.999679	0.000643692	0.997428
rad60anti	5.74980e-05	0.999737	0.000460680	0.997889
PAH10+CH3	4.75541e-05	0.999784	0.000381008	0.998270
rad52	3.97970e-05	0.999824	0.000318857	0.998589
rad19syn	3.43481e-05	0.999859	0.000275201	0.998864
rad58	2.60271e-05	0.999885	0.000208532	0.999072
rad71	2.39144e-05	0.999908	0.000191605	0.999264
PhcycC3H3_A+H	1.91125e-05	0.999928	0.000153131	0.999417
PAH1+H	1.89315e-05	0.999947	0.000151681	0.999569
rad73	1.19971e-05	0.999959	9.61219e-05	0.999665
rad37	1.02458e-05	0.999969	8.20902e-05	0.999747
rad70	8.97458e-06	0.999978	7.19052e-05	0.999819
rad54	7.04853e-06	0.999985	5.64735e-05	0.999875
rad65	4.27363e-06	0.999989	3.42407e-05	0.999910
rad34	3.06725e-06	0.999992	2.45751e-05	0.999934
PAH8+H	2.42511e-06	0.999995	1.94302e-05	0.999954
rad72	1.88068e-06	0.999996	1.50682e-05	0.999969
rad55	6.94537e-07	0.999997	5.56469e-06	0.999974
rad56	5.00311e-07	0.999998	4.00854e-06	0.999978
rad68syn	4.83461e-07	0.999998	3.87354e-06	0.999982
rad64	4.76904e-07	0.999999	3.82100e-06	0.999986
rad53	3.88203e-07	0.999999	3.11032e-06	0.999989
rad68anti	3.09363e-07	0.999999	2.47864e-06	0.999991
rad62	2.47713e-07	1.000000	1.98470e-06	0.999993
rad40syn	2.35493e-07	1.000000	1.88680e-06	0.999995
rad61	1.98412e-07	1.000000	1.58970e-06	0.999997
rad40anti	1.64465e-07	1.000000	1.31771e-06	0.999998
rad43	1.38326e-07	1.000000	1.10828e-06	0.999999
rad42	3.59380e-08	1.000000	2.87939e-07	1.000000

rad41	2.03341e-08	1.00000	1.62919e-07	1.000000
rad23	6.22108e-10	1.00000	4.98439e-09	1.000000
rad6	5.61107e-10	1.00000	4.49564e-09	1.000000
rad45	1.35864e-10	1.00000	1.08856e-09	1.000000
rad9	1.06567e-10	1.00000	8.53826e-10	1.000000
rad20	8.69696e-11	1.00000	6.96809e-10	1.000000
rad22	5.84238e-11	1.00000	4.68097e-10	1.000000
rad21	4.05545e-11	1.00000	3.24926e-10	1.000000
rad11	2.94140e-11	1.00000	2.35668e-10	1.000000
rad36	2.49915e-11	1.00000	2.00235e-10	1.000000
rad18	1.40591e-11	1.00000	1.12643e-10	1.000000
rad7	8.95592e-12	1.00000	7.17557e-11	1.000000
rad15	7.62718e-12	1.00000	6.11097e-11	1.000000
rad28	4.49603e-12	1.00000	3.60226e-11	1.000000
rad24	2.36701e-12	1.00000	1.89647e-11	1.000000
rad8	2.27055e-12	1.00000	1.81919e-11	1.000000
rad12	1.84641e-12	1.00000	1.47936e-11	1.000000
rad13	1.03121e-12	1.00000	8.26217e-12	1.000000
rad26	7.93802e-13	1.00000	6.36002e-12	1.000000
rad47	3.65972e-13	1.00000	2.93221e-12	1.000000
rad10	2.70718e-13	1.00000	2.16902e-12	1.000000
rad25	1.16328e-13	1.00000	9.32033e-13	1.000000
rad33	6.71508e-14	1.00000	5.38019e-13	1.000000
rad2	2.58150e-14	1.00000	2.06833e-13	1.000000
rad5	2.19625e-14	1.00000	1.75965e-13	1.000000
rad1	9.61492e-15	1.00000	7.70357e-14	1.000000
rad3	2.99895e-15	1.00000	2.40279e-14	1.000000
rad4	1.83339e-15	1.00000	1.46893e-14	1.000000
rad14	1.78070e-15	1.00000	1.42672e-14	1.000000
rad27	9.33336e-16	1.00000	7.47798e-15	1.000000

1.0000000 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15309e-12 (1.00)	1.53862e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866566	0.866566	0.00000	0.00000
PhCH2CCH+H	0.0611725	0.927738	0.458447	0.458447
Indene+H	0.0342672	0.962006	0.256810	0.715257
PhCHCCH2+H	0.0154790	0.977485	0.116005	0.831262
Ph+Allene	0.0132660	0.990751	0.0994201	0.930682
PAH3+H	0.00205938	0.992810	0.0154337	0.946116
PAH9+H	0.00113813	0.993948	0.00852950	0.954645
PAH7+H	0.000866136	0.994814	0.00649111	0.961136
rad19anti	0.000812998	0.995627	0.00609288	0.967229
rad38	0.000693215	0.996321	0.00519518	0.972424
rad30	0.000455427	0.996776	0.00341312	0.975838
rad50	0.000445148	0.997221	0.00333609	0.979174
Ph+MeAc	0.000411378	0.997633	0.00308300	0.982257
PhCCH+CH3	0.000319072	0.997952	0.00239123	0.984648
rad39	0.000311352	0.998263	0.00233338	0.986981
rad35	0.000303822	0.998567	0.00227694	0.989258
rad46	0.000258929	0.998826	0.00194050	0.991199
rad51	0.000229662	0.999055	0.00172117	0.992920
rad59	0.000160966	0.999216	0.00120633	0.994126
rad67	0.000132859	0.999349	0.000995687	0.995122
PhCCCH3+H	0.000117527	0.999467	0.000880786	0.996003
rad60syn	9.03378e-05	0.999557	0.000677021	0.996680
PAH10+CH3	6.53522e-05	0.999622	0.000489771	0.997169
rad60anti	6.52879e-05	0.999688	0.000489289	0.997659
rad52	5.16000e-05	0.999739	0.000386707	0.998045
rad19syn	5.01057e-05	0.999789	0.000375508	0.998421
rad71	4.45170e-05	0.999834	0.000333625	0.998755
rad58	3.61220e-05	0.999870	0.000270710	0.999025
PAH1+H	2.86272e-05	0.999899	0.000214542	0.999240
PhcycC3H3_A+H	2.34370e-05	0.999922	0.000175644	0.999416
rad73	2.07083e-05	0.999943	0.000155195	0.999571
rad70	1.26564e-05	0.999955	9.48510e-05	0.999666
rad37	1.18404e-05	0.999967	8.87361e-05	0.999754
rad54	7.74184e-06	0.999975	5.80199e-05	0.999812
rad65	5.71879e-06	0.999981	4.28585e-05	0.999855
PAH8+H	4.80154e-06	0.999986	3.59843e-05	0.999891
rad34	4.57470e-06	0.999990	3.42843e-05	0.999925
rad72	4.05928e-06	0.999994	3.04216e-05	0.999956
rad68syn	8.44303e-07	0.999995	6.32749e-06	0.999962
rad55	7.96395e-07	0.999996	5.96845e-06	0.999968
rad64	7.49017e-07	0.999997	5.61338e-06	0.999974

rad56	7.20452e-07	0.999997	5.39931e-06	0.999979
rad68anti	5.39464e-07	0.999998	4.04292e-06	0.999983
rad53	5.23144e-07	0.999998	3.92061e-06	0.999987
rad40syn	4.40708e-07	0.999999	3.30281e-06	0.999990
rad62	3.72785e-07	0.999999	2.79377e-06	0.999993
rad61	3.22479e-07	0.999999	2.41676e-06	0.999996
rad40anti	3.14360e-07	1.000000	2.35591e-06	0.999998
rad43	1.94896e-07	1.000000	1.46062e-06	0.999999
rad42	5.98148e-08	1.000000	4.48272e-07	1.000000
rad41	3.19484e-08	1.000000	2.39432e-07	1.000000
rad23	2.61670e-10	1.000000	1.96104e-09	1.000000
rad6	1.62690e-10	1.000000	1.21925e-09	1.000000
rad45	6.93110e-11	1.000000	5.19440e-10	1.000000
rad9	6.01467e-11	1.000000	4.50759e-10	1.000000
rad20	5.62435e-11	1.000000	4.21508e-10	1.000000
rad22	2.73635e-11	1.000000	2.05071e-10	1.000000
rad21	2.52865e-11	1.000000	1.89505e-10	1.000000
rad11	1.60474e-11	1.000000	1.20264e-10	1.000000
rad36	1.29125e-11	1.000000	9.67705e-11	1.000000
rad18	7.72292e-12	1.000000	5.78781e-11	1.000000
rad15	4.68396e-12	1.000000	3.51031e-11	1.000000
rad7	3.51817e-12	1.000000	2.63663e-11	1.000000
rad8	2.23539e-12	1.000000	1.67528e-11	1.000000
rad28	2.11533e-12	1.000000	1.58529e-11	1.000000
rad24	1.60029e-12	1.000000	1.19931e-11	1.000000
rad12	1.40785e-12	1.000000	1.05509e-11	1.000000
rad26	5.04557e-13	1.000000	3.78132e-12	1.000000
rad47	4.90431e-13	1.000000	3.67545e-12	1.000000
rad13	4.47793e-13	1.000000	3.35591e-12	1.000000
rad10	1.83532e-13	1.000000	1.37545e-12	1.000000
rad25	8.60437e-14	1.000000	6.44840e-13	1.000000
rad33	3.44384e-14	1.000000	2.58093e-13	1.000000
rad5	2.13047e-14	1.000000	1.59664e-13	1.000000
rad2	1.55960e-14	1.000000	1.16881e-13	1.000000
rad1	6.58107e-15	1.000000	4.93207e-14	1.000000
rad14	1.40642e-15	1.000000	1.05402e-14	1.000000
rad3	1.23620e-15	1.000000	9.26446e-15	1.000000
rad27	8.02873e-16	1.000000	6.01699e-15	1.000000
rad4	7.33862e-16	1.000000	5.49980e-15	1.000000

1.00000000 Pa, 3250.00000 K

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

Total | 1.58309e-12 (1.00) | 2.28795e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.855476	0.855476	0.00000	0.00000
PhCH2CCH+H	0.0734301	0.928906	0.508082	0.508082
Indene+H	0.0278643	0.956770	0.192800	0.700882
PhCHCCH2+H	0.0183610	0.975131	0.127045	0.827927
Ph+Allene	0.0145940	0.989725	0.100980	0.928907
PAH3+H	0.00243645	0.992162	0.0168585	0.945765
PAH9+H	0.00110339	0.993265	0.00763468	0.953400
PAH7+H	0.000986571	0.994252	0.00682634	0.960227
rad19anti	0.000808911	0.995061	0.00559707	0.965824
rad38	0.000686670	0.995747	0.00475125	0.970575
rad50	0.000518180	0.996266	0.00358542	0.974160
Ph+MeAc	0.000489465	0.996755	0.00338674	0.977547
rad30	0.000447972	0.997203	0.00309964	0.980647
PhCCH+CH3	0.000378211	0.997581	0.00261694	0.983264
rad39	0.000374435	0.997956	0.00259081	0.985854
rad35	0.000323023	0.998279	0.00223508	0.988089
rad51	0.000289246	0.998568	0.00200137	0.990091
rad46	0.000266714	0.998835	0.00184546	0.991936
rad59	0.000184695	0.999019	0.00127795	0.993214
rad67	0.000159865	0.999179	0.00110614	0.994320
PhCCCH3+H	0.000140367	0.999320	0.000971235	0.995292
rad60syn	9.79791e-05	0.999418	0.000677943	0.995970
PAH10+CH3	8.26143e-05	0.999500	0.000571630	0.996541
rad71	7.28080e-05	0.999573	0.000503778	0.997045
rad60anti	7.14060e-05	0.999644	0.000494077	0.997539
rad19syn	7.13406e-05	0.999716	0.000493624	0.998033
rad52	6.19534e-05	0.999778	0.000428672	0.998461
rad58	4.68388e-05	0.999825	0.000324090	0.998785
PAH1+H	3.98745e-05	0.999864	0.000275902	0.999061
rad73	3.17352e-05	0.999896	0.000219584	0.999281
PhcycC3H3_A+H	2.77967e-05	0.999924	0.000192333	0.999473
rad70	1.68825e-05	0.999941	0.000116814	0.999590

rad37	1.28499e-05	0.999954	8.89115e-05	0.999679
PAH8+H	8.50458e-06	0.999962	5.88454e-05	0.999738
rad54	8.38235e-06	0.999971	5.79997e-05	0.999796
rad72	7.52661e-06	0.999978	5.20786e-05	0.999848
rad65	7.06075e-06	0.999985	4.88552e-05	0.999897
rad34	6.39568e-06	0.999992	4.42534e-05	0.999941
rad68syn	1.34606e-06	0.999993	9.31375e-06	0.999950
rad64	1.07438e-06	0.999994	7.43390e-06	0.999958
rad56	9.79690e-07	0.999995	6.77873e-06	0.999965
rad55	8.93999e-07	0.999996	6.18581e-06	0.999971
rad68anti	8.59058e-07	0.999997	5.94405e-06	0.999977
rad40syn	7.44328e-07	0.999997	5.15020e-06	0.999982
rad53	6.73265e-07	0.999998	4.65850e-06	0.999986
rad40anti	5.40358e-07	0.999999	3.73888e-06	0.999990
rad62	5.25221e-07	0.999999	3.63414e-06	0.999994
rad61	4.70537e-07	1.000000	3.25577e-06	0.999997
rad43	2.53715e-07	1.000000	1.75552e-06	0.999999
rad42	9.14459e-08	1.000000	6.32738e-07	0.999999
rad41	4.57451e-08	1.000000	3.16522e-07	1.000000
rad23	1.20200e-10	1.000000	8.31692e-10	1.000000
rad6	5.64764e-11	1.000000	3.90775e-10	1.000000
rad20	3.84229e-11	1.000000	2.65858e-10	1.000000
rad45	3.73356e-11	1.000000	2.58335e-10	1.000000
rad9	3.51128e-11	1.000000	2.42955e-10	1.000000
rad21	1.66367e-11	1.000000	1.15114e-10	1.000000
rad22	1.41102e-11	1.000000	9.76324e-11	1.000000
rad11	9.87846e-12	1.000000	6.83516e-11	1.000000
rad36	7.02663e-12	1.000000	4.86191e-11	1.000000
rad18	4.53166e-12	1.000000	3.13557e-11	1.000000
rad15	2.94061e-12	1.000000	2.03469e-11	1.000000
rad8	2.15823e-12	1.000000	1.49334e-11	1.000000
rad7	1.58752e-12	1.000000	1.09844e-11	1.000000
rad28	1.16203e-12	1.000000	8.04040e-12	1.000000
rad24	1.10778e-12	1.000000	7.66503e-12	1.000000
rad12	1.07284e-12	1.000000	7.42327e-12	1.000000
rad47	6.03543e-13	1.000000	4.17607e-12	1.000000
rad26	3.25047e-13	1.000000	2.24909e-12	1.000000
rad13	2.21318e-13	1.000000	1.53136e-12	1.000000
rad10	1.25360e-13	1.000000	8.67401e-13	1.000000
rad25	6.72728e-14	1.000000	4.65478e-13	1.000000
rad5	2.04475e-14	1.000000	1.41482e-13	1.000000
rad33	1.94939e-14	1.000000	1.34884e-13	1.000000
rad2	1.01582e-14	1.000000	7.02874e-14	1.000000
rad1	4.78850e-15	1.000000	3.31329e-14	1.000000
rad14	1.20556e-15	1.000000	8.34156e-15	1.000000
rad27	6.79671e-16	1.000000	4.70282e-15	1.000000
rad3	6.00026e-16	1.000000	4.15174e-15	1.000000
rad4	3.46542e-16	1.000000	2.39782e-15	1.000000

1.00000000 Pa, 3500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.10046e-12 (1.00)	3.29923e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.842928	0.842928	0.000000	0.000000
PhCH2CCH+H	0.0857241	0.928652	0.545762	0.545762
Indene+H	0.0229287	0.951581	0.145976	0.691738
PhCHCCH2+H	0.0212218	0.972803	0.135108	0.826846
Ph+Allene	0.0160719	0.988874	0.102322	0.929168
PAH3+H	0.00277080	0.991645	0.0176403	0.946808
PAH7+H	0.00108547	0.992731	0.00691065	0.953719
PAH9+H	0.00103824	0.993769	0.00660998	0.960329
rad19anti	0.000786012	0.994555	0.00500415	0.965333
rad38	0.000657575	0.995213	0.00418645	0.969520
rad50	0.000571323	0.995784	0.00363733	0.973157
Ph+MeAc	0.000559758	0.996344	0.00356370	0.976721
PhCCH+CH3	0.000466753	0.996810	0.00297158	0.979692
rad30	0.000434295	0.997245	0.00276494	0.982457
rad39	0.000426787	0.997672	0.00271714	0.985174
rad51	0.000340823	0.998012	0.00216985	0.987344
rad35	0.000335221	0.998348	0.00213419	0.989478
rad46	0.000264413	0.998612	0.00168339	0.991162
rad59	0.000204435	0.998816	0.00130154	0.992463
rad67	0.000182834	0.998999	0.00116401	0.993627
PhCCCH3+H	0.000163685	0.999163	0.00104210	0.994669
rad71	0.000107601	0.999271	0.000685044	0.995354
rad60syn	0.000103349	0.999374	0.000657969	0.996012

PAH10+CH3	9.81181e-05	0.999472	0.000624669	0.996637
rad19syn	9.79725e-05	0.999570	0.000623742	0.997261
rad60anti	7.58697e-05	0.999646	0.000483025	0.997744
rad52	7.00217e-05	0.999716	0.000445793	0.998190
rad58	5.76196e-05	0.999773	0.000366835	0.998556
PAH1+H	5.20523e-05	0.999826	0.000331391	0.998888
rad73	4.43108e-05	0.999870	0.000282105	0.999170
PhcycC3H3_A+H	3.20633e-05	0.999902	0.000204131	0.999374
rad70	2.14708e-05	0.999923	0.000136694	0.999511
PAH8+H	1.37725e-05	0.999937	8.76827e-05	0.999598
rad37	1.33235e-05	0.999950	8.48243e-05	0.999683
rad72	1.23924e-05	0.999963	7.88963e-05	0.999762
rad54	8.98058e-06	0.999972	5.71749e-05	0.999819
rad34	8.46718e-06	0.999980	5.39063e-05	0.999873
rad65	8.19016e-06	0.999988	5.21426e-05	0.999925
rad68syn	1.99232e-06	0.999990	1.26841e-05	0.999938
rad64	1.43496e-06	0.999992	9.13568e-06	0.999947
rad56	1.27412e-06	0.999993	8.11171e-06	0.999955
rad68anti	1.27030e-06	0.999994	8.08736e-06	0.999963
rad40syn	1.15716e-06	0.999996	7.36708e-06	0.999971
rad55	9.87613e-07	0.999997	6.28764e-06	0.999977
rad40anti	8.52742e-07	0.999997	5.42898e-06	0.999982
rad53	8.35966e-07	0.999998	5.32218e-06	0.999988
rad62	6.97361e-07	0.999999	4.43975e-06	0.999992
rad61	6.32568e-07	1.000000	4.02725e-06	0.999996
rad43	3.12012e-07	1.000000	1.98643e-06	0.999998
rad42	1.30122e-07	1.000000	8.28425e-07	0.999999
rad41	6.11801e-08	1.000000	3.89503e-07	0.999999
rad23	5.91057e-11	1.000000	3.76297e-10	0.999999
rad20	2.74364e-11	1.000000	1.74674e-10	0.999999
rad6	2.29907e-11	1.000000	1.46370e-10	0.999999
rad9	2.12100e-11	1.000000	1.35034e-10	0.999999
rad45	2.10092e-11	1.000000	1.33755e-10	0.999999
rad21	1.14338e-11	1.000000	7.27936e-11	0.999999
rad22	7.86191e-12	1.000000	5.00529e-11	0.999999
rad11	6.65402e-12	1.000000	4.23629e-11	0.999999
rad36	3.98553e-12	1.000000	2.53739e-11	0.999999
rad18	2.80241e-12	1.000000	1.78416e-11	0.999999
rad8	2.04870e-12	1.000000	1.30430e-11	0.999999
rad15	1.89018e-12	1.000000	1.20338e-11	0.999999
rad12	8.20879e-13	1.000000	5.22613e-12	0.999999
rad7	8.04507e-13	1.000000	5.12189e-12	0.999999
rad24	7.82702e-13	1.000000	4.98308e-12	0.999999
rad28	6.97171e-13	1.000000	4.43854e-12	0.999999
rad47	6.94995e-13	1.000000	4.42469e-12	0.999999
rad26	2.12166e-13	1.000000	1.35075e-12	0.999999
rad13	1.21950e-13	1.000000	7.76393e-13	0.999999
rad10	8.63394e-14	1.000000	5.49680e-13	0.999999
rad25	5.44605e-14	1.000000	3.46723e-13	0.999999
rad5	1.95699e-14	1.000000	1.24592e-13	0.999999
rad33	1.19823e-14	1.000000	7.62857e-14	0.999999
rad2	6.92692e-15	1.000000	4.41002e-14	0.999999
rad1	3.57727e-15	1.000000	2.27747e-14	0.999999
rad14	1.06462e-15	1.000000	6.77788e-15	0.999999
rad27	5.69967e-16	1.000000	3.62870e-15	0.999999
rad3	3.31433e-16	1.000000	2.11007e-15	0.999999
rad4	1.87432e-16	1.000000	1.19329e-15	0.999999

1.00000000 Pa, 3750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.70978e-12 (1.00)	4.61708e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829614	0.829614	0.00000	0.00000
PhCH2CCH+H	0.0978316	0.927446	0.574175	0.574175
PhCHCCH2+H	0.0240141	0.951460	0.140939	0.715114
Indene+H	0.0190788	0.970538	0.111974	0.827088
Ph+Allene	0.0176550	0.988193	0.103617	0.930705
PAH3+H	0.00305565	0.991249	0.0179337	0.948639
PAH7+H	0.00116197	0.992411	0.00681959	0.955458
PAH9+H	0.000955041	0.993366	0.00560515	0.961063
rad19anti	0.000750872	0.994117	0.00440688	0.965470
Ph+MeAc	0.000618509	0.994736	0.00363004	0.969100
rad38	0.000613193	0.995349	0.00359884	0.972699
rad50	0.000603635	0.995952	0.00354274	0.976242
PhCCH+CH3	0.000581835	0.996534	0.00341480	0.979657
rad39	0.000465790	0.997000	0.00273373	0.982390

rad30	0.000416539	0.997417	0.00244467	0.984835
rad51	0.000380994	0.997798	0.00223606	0.987071
rad35	0.000341508	0.998139	0.00200431	0.989076
rad46	0.000254425	0.998393	0.00149322	0.990569
rad59	0.000220084	0.998614	0.00129168	0.991860
rad67	0.000201013	0.998815	0.00117975	0.993040
PhCCCH3+H	0.000187990	0.999003	0.00110331	0.994143
rad71	0.000146780	0.999149	0.000861456	0.995005
rad19syn	0.000129261	0.999279	0.000758633	0.995764
PAH10+CH3	0.000111172	0.999390	0.000652468	0.996416
rad60syn	0.000106707	0.999496	0.000626263	0.997042
rad60anti	7.88382e-05	0.999575	0.000462703	0.997505
rad52	7.54521e-05	0.999651	0.000442829	0.997948
rad58	6.80261e-05	0.999719	0.000399246	0.998347
PAH1+H	6.45813e-05	0.999783	0.000379028	0.998726
rad73	5.74878e-05	0.999841	0.000337397	0.999063
PhcycC3H3_A+H	3.61213e-05	0.999877	0.000211996	0.999275
rad70	2.62309e-05	0.999903	0.000153949	0.999429
PAH8+H	2.07420e-05	0.999924	0.000121735	0.999551
rad72	1.85748e-05	0.999943	0.000109016	0.999660
rad37	1.33636e-05	0.999956	7.84314e-05	0.999739
rad34	1.07116e-05	0.999967	6.28665e-05	0.999801
rad54	9.53969e-06	0.999976	5.59886e-05	0.999857
rad65	9.05126e-06	0.999985	5.31219e-05	0.999911
rad68syn	2.77520e-06	0.999988	1.62877e-05	0.999927
rad64	1.81236e-06	0.999990	1.06367e-05	0.999938
rad68anti	1.76807e-06	0.999992	1.03768e-05	0.999948
rad40syn	1.68193e-06	0.999993	9.87130e-06	0.999958
rad56	1.59874e-06	0.999995	9.38301e-06	0.999967
rad40anti	1.25564e-06	0.999996	7.36935e-06	0.999975
rad55	1.07703e-06	0.999997	6.32112e-06	0.999981
rad53	1.00840e-06	0.999998	5.91834e-06	0.999987
rad62	8.81786e-07	0.999999	5.17522e-06	0.999992
rad61	7.98455e-07	1.000000	4.68615e-06	0.999997
rad43	3.67979e-07	1.000000	2.15967e-06	0.999999
rad42	1.74775e-07	1.000000	1.02576e-06	1.000000
rad41	7.77074e-08	1.000000	4.56066e-07	1.000000
rad23	3.07291e-11	1.000000	1.80350e-10	1.000000
rad20	2.03155e-11	1.000000	1.19232e-10	1.000000
rad9	1.32429e-11	1.000000	7.77227e-11	1.000000
rad45	1.22565e-11	1.000000	7.19334e-11	1.000000
rad6	1.07358e-11	1.000000	6.30087e-11	1.000000
rad21	8.14726e-12	1.000000	4.78164e-11	1.000000
rad11	4.79042e-12	1.000000	2.81151e-11	1.000000
rad22	4.67041e-12	1.000000	2.74107e-11	1.000000
rad36	2.33903e-12	1.000000	1.37278e-11	1.000000
rad8	1.91577e-12	1.000000	1.12437e-11	1.000000
rad18	1.80913e-12	1.000000	1.06178e-11	1.000000
rad15	1.24386e-12	1.000000	7.30024e-12	1.000000
rad47	7.59707e-13	1.000000	4.45873e-12	1.000000
rad12	6.32120e-13	1.000000	3.70992e-12	1.000000
rad24	5.63439e-13	1.000000	3.30683e-12	1.000000
rad7	4.47886e-13	1.000000	2.62865e-12	1.000000
rad28	4.41713e-13	1.000000	2.59242e-12	1.000000
rad26	1.40579e-13	1.000000	8.25058e-13	1.000000
rad13	7.33848e-14	1.000000	4.30697e-13	1.000000
rad10	6.02920e-14	1.000000	3.53855e-13	1.000000
rad25	4.50729e-14	1.000000	2.64533e-13	1.000000
rad5	1.87305e-14	1.000000	1.09930e-13	1.000000
rad33	7.87875e-15	1.000000	4.62405e-14	1.000000
rad2	4.94252e-15	1.000000	2.90077e-14	1.000000
rad1	2.71564e-15	1.000000	1.59381e-14	1.000000
rad14	9.48144e-16	1.000000	5.56467e-15	1.000000
rad27	4.76910e-16	1.000000	2.79899e-15	1.000000
rad3	2.02281e-16	1.000000	1.18719e-15	1.000000
rad4	1.12867e-16	1.000000	6.62421e-16	1.000000

1.00000000 Pa, 4000.00000 K

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

Total | 3.41497e-12 (1.00) | 6.28297e-13 (1.00)

species | PYtrue | Cumul | PYeffective | Cumul

Benzyl+C2H2 | 0.816017 | 0.816017 | 0.000000 | 0.000000
PhCH2CCH+H | 0.109584 | 0.925601 | 0.595618 | 0.595618
PhCHCCH2+H | 0.0267098 | 0.952311 | 0.145175 | 0.740793
Ph+Allene | 0.0193046 | 0.971615 | 0.104926 | 0.845719
Indene+H | 0.0160484 | 0.987664 | 0.0872277 | 0.932947

PAH3+H	0.00329013	0.990954	0.0178828	0.950829
PAH7+H	0.00121791	0.992172	0.00661968	0.957449
PAH9+H	0.000864009	0.993036	0.00469613	0.962145
PhCCH+CH3	0.000720156	0.993756	0.00391424	0.966060
rad19anti	0.000708493	0.994464	0.00385085	0.969910
Ph+MeAc	0.000663934	0.995128	0.00360866	0.973519
rad50	0.000616859	0.995745	0.00335280	0.976872
rad38	0.000560144	0.996305	0.00304454	0.979916
rad39	0.000491035	0.996796	0.00266891	0.982585
rad51	0.000408498	0.997205	0.00222030	0.984806
rad30	0.000396478	0.997601	0.00215497	0.986961
rad35	0.000343096	0.997945	0.00186482	0.988825
rad46	0.000239253	0.998184	0.00130040	0.990126
rad59	0.000231903	0.998416	0.00126046	0.991386
rad67	0.000214260	0.998630	0.00116456	0.992551
PhCCCH3+H	0.000213580	0.998844	0.00116087	0.993712
rad71	0.000187844	0.999031	0.00102098	0.994733
rad19syn	0.000163941	0.999195	0.000891067	0.995624
PAH10+CH3	0.000121536	0.999317	0.000660582	0.996284
rad60syn	0.000108396	0.999425	0.000589161	0.996873
rad60anti	8.05427e-05	0.999506	0.000437772	0.997311
rad52	7.82960e-05	0.999584	0.000425560	0.997737
rad58	7.77572e-05	0.999662	0.000422632	0.998159
PAH1+H	7.70001e-05	0.999739	0.000418517	0.998578
rad73	7.03552e-05	0.999809	0.000382400	0.998960
PhcycC3H3_A+H	3.98813e-05	0.999849	0.000216766	0.999177
rad70	3.09908e-05	0.999880	0.000168444	0.999346
PAH8+H	2.94355e-05	0.999910	0.000159990	0.999506
rad72	2.58284e-05	0.999935	0.000140384	0.999646
rad37	1.30848e-05	0.999948	7.11194e-05	0.999717
rad34	1.30497e-05	0.999961	7.09289e-05	0.999788
rad54	1.00584e-05	0.999972	5.46703e-05	0.999843
rad65	9.63686e-06	0.999981	5.23790e-05	0.999895
rad68syn	3.67778e-06	0.999985	1.99898e-05	0.999915
rad68anti	2.34154e-06	0.999987	1.27269e-05	0.999928
rad40syn	2.31359e-06	0.999990	1.25750e-05	0.999940
rad64	2.19077e-06	0.999992	1.19074e-05	0.999952
rad56	1.94741e-06	0.999994	1.05847e-05	0.999963
rad40anti	1.74691e-06	0.999995	9.49492e-06	0.999972
rad53	1.18744e-06	0.999997	6.45406e-06	0.999979
rad55	1.16170e-06	0.999998	6.31418e-06	0.999985
rad62	1.07271e-06	0.999999	5.83046e-06	0.999991
rad61	9.59661e-07	1.000000	5.21602e-06	0.999996
rad43	4.20278e-07	1.000000	2.28433e-06	0.999998
rad42	2.24298e-07	1.000000	1.21912e-06	1.000000
rad41	9.47630e-08	1.000000	5.15063e-07	1.000000
rad23	1.67467e-11	1.000000	9.10230e-11	1.000000
rad20	1.55048e-11	1.000000	8.42727e-11	1.000000
rad9	8.53027e-12	1.000000	4.63644e-11	1.000000
rad45	7.37351e-12	1.000000	4.00770e-11	1.000000
rad21	5.98524e-12	1.000000	3.25314e-11	1.000000
rad6	5.62357e-12	1.000000	3.05656e-11	1.000000
rad11	3.62399e-12	1.000000	1.96974e-11	1.000000
rad22	2.92855e-12	1.000000	1.59175e-11	1.000000
rad8	1.76791e-12	1.000000	9.60910e-12	1.000000
rad36	1.41299e-12	1.000000	7.68000e-12	1.000000
rad18	1.21093e-12	1.000000	6.58174e-12	1.000000
rad15	8.37176e-13	1.000000	4.55028e-12	1.000000
rad47	7.97227e-13	1.000000	4.33315e-12	1.000000
rad12	4.90408e-13	1.000000	2.66550e-12	1.000000
rad24	4.12850e-13	1.000000	2.24395e-12	1.000000
rad28	2.90782e-13	1.000000	1.58048e-12	1.000000
rad7	2.68725e-13	1.000000	1.46059e-12	1.000000
rad26	9.47037e-14	1.000000	5.14740e-13	1.000000
rad13	4.73689e-14	1.000000	2.57463e-13	1.000000
rad10	4.29254e-14	1.000000	2.33311e-13	1.000000
rad25	3.78593e-14	1.000000	2.05776e-13	1.000000
rad5	1.79285e-14	1.000000	9.74464e-14	1.000000
rad33	5.47180e-15	1.000000	2.97407e-14	1.000000
rad2	3.70442e-15	1.000000	2.01345e-14	1.000000
rad1	2.08681e-15	1.000000	1.13424e-14	1.000000
rad14	8.46088e-16	1.000000	4.59872e-15	1.000000
rad27	4.00162e-16	1.000000	2.17499e-15	1.000000
rad3	1.33395e-16	1.000000	7.25038e-16	1.000000
rad4	7.38941e-17	1.000000	4.01635e-16	1.000000

0.10000000 Pa, 20.000000 K

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

Total | 1.34336e-156 (1.00) 1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.918714	0.918714	0.918715	0.918715
rad23	0.0773912	0.996105	0.0773913	0.996106
rad45	0.00188210	0.997987	0.00188210	0.997988
rad22	0.00171192	0.999699	0.00171192	0.999700
rad6	0.000119066	0.999818	0.000119066	0.999819
rad36	0.000117240	0.999936	0.000117240	0.999937
rad11	6.35072e-05	0.999999	6.35073e-05	1.00000
Benzyl+C2H2	8.11542e-07	1.000000	0.00000	1.00000
rad7	1.55700e-08	1.000000	1.55700e-08	1.00000
rad18	1.43244e-08	1.000000	1.43244e-08	1.00000
rad20	9.42459e-09	1.000000	9.42460e-09	1.00000
rad21	5.95672e-09	1.000000	5.95673e-09	1.00000
rad13	5.78883e-11	1.000000	5.78883e-11	1.00000
rad24	1.49632e-11	1.000000	1.49632e-11	1.00000
rad3	9.34581e-13	1.000000	9.34582e-13	1.00000
rad4	4.72480e-13	1.000000	4.72480e-13	1.00000
rad33	9.20865e-14	1.000000	9.20866e-14	1.00000
rad35	5.77153e-14	1.000000	5.77153e-14	1.00000
rad2	1.23335e-14	1.000000	1.23335e-14	1.00000
PAH9+H	1.06157e-14	1.000000	1.06158e-14	1.00000
rad1	7.79508e-16	1.000000	7.79508e-16	1.00000
rad38	9.30926e-17	1.000000	9.30927e-17	1.00000
rad10	6.37423e-17	1.000000	6.37423e-17	1.00000
rad30	4.14752e-19	1.000000	4.14752e-19	1.00000
rad28	1.70943e-19	1.000000	1.70943e-19	1.00000
rad25	1.56833e-20	1.000000	1.56834e-20	1.00000
rad31	2.35601e-22	1.000000	2.35601e-22	1.00000
rad15	3.89413e-23	1.000000	3.89413e-23	1.00000
rad27	3.36035e-23	1.000000	3.36035e-23	1.00000
rad26	9.27787e-24	1.000000	9.27787e-24	1.00000
rad14	5.42970e-24	1.000000	5.42970e-24	1.00000
PhCCH+CH3	7.35686e-25	1.000000	7.35687e-25	1.00000
PhCHCCH2+H	7.47061e-26	1.000000	7.47061e-26	1.00000
rad46	7.31454e-26	1.000000	7.31454e-26	1.00000
PhCCCH3+H	6.93569e-27	1.000000	6.93569e-27	1.00000
rad8	2.69149e-30	1.000000	2.69149e-30	1.00000
rad9	2.35157e-30	1.000000	2.35157e-30	1.00000
Ph+MeAc	4.21062e-32	1.000000	4.21063e-32	1.00000
PAH7+H	2.48860e-33	1.000000	2.48860e-33	1.00000
Ph+Allene	4.49263e-34	1.000000	4.49263e-34	1.00000
rad39	5.44561e-35	1.000000	5.44561e-35	1.00000
rad12	3.56157e-35	1.000000	3.56157e-35	1.00000
rad60syn	5.09512e-38	1.000000	5.09513e-38	1.00000
PhCH2CCH+H	2.59580e-39	1.000000	2.59580e-39	1.00000
rad60anti	1.60587e-39	1.000000	1.60587e-39	1.00000
rad37	5.71996e-41	1.000000	5.71997e-41	1.00000
rad5	5.49598e-43	1.000000	5.49599e-43	1.00000
PAH3+H	1.16808e-46	1.000000	1.16808e-46	1.00000
rad50	9.12299e-47	1.000000	9.12300e-47	1.00000
rad59	5.72442e-47	1.000000	5.72443e-47	1.00000
rad19syn	5.49863e-52	1.000000	5.49864e-52	1.00000
rad54	1.65358e-55	1.000000	1.65358e-55	1.00000
PAH10+CH3	1.12020e-55	1.000000	1.12020e-55	1.00000
rad52	3.67661e-56	1.000000	3.67662e-56	1.00000
rad43	2.62867e-56	1.000000	2.62867e-56	1.00000
rad62	5.11071e-58	1.000000	5.11071e-58	1.00000
rad51	5.25758e-61	1.000000	5.25758e-61	1.00000
rad70	4.76147e-62	1.000000	4.76147e-62	1.00000
PhcycC3H3_A+H	3.11357e-62	1.000000	3.11357e-62	1.00000
rad55	1.52005e-62	1.000000	1.52005e-62	1.00000
rad65	7.84461e-65	1.000000	7.84461e-65	1.00000
rad58	1.44091e-65	1.000000	1.44091e-65	1.00000
PAH1+H	5.69353e-66	1.000000	5.69353e-66	1.00000
rad34	8.14589e-68	1.000000	8.14590e-68	1.00000
rad42	4.59071e-71	1.000000	4.59071e-71	1.00000
rad41	7.94968e-72	1.000000	7.94969e-72	1.00000
rad47	2.39326e-72	1.000000	2.39327e-72	1.00000

0.100000000 Pa, 30.0000000 K

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

 Total | 1.15918e-108 (1.00) | 1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.944365	0.944365	0.944366	0.944366
rad23	0.0540477	0.998413	0.0540478	0.998414
rad45	0.00114274	0.999555	0.00114274	0.999557
rad22	0.000186772	0.999742	0.000186772	0.999743
rad6	0.000155175	0.999897	0.000155176	0.999898
rad36	7.11618e-05	0.999969	7.11618e-05	0.999970
rad11	2.99382e-05	0.999998	2.99382e-05	1.000000
Benzyl+C2H2	1.04051e-06	1.000000	0.000000	1.000000
rad7	2.02839e-08	1.000000	2.02840e-08	1.000000
rad20	2.26081e-09	1.000000	2.26081e-09	1.000000
rad18	1.54978e-09	1.000000	1.54978e-09	1.000000
rad21	1.42749e-09	1.000000	1.42750e-09	1.000000
rad13	7.03331e-11	1.000000	7.03331e-11	1.000000
rad24	9.43329e-12	1.000000	9.43330e-12	1.000000
rad3	2.70668e-12	1.000000	2.70668e-12	1.000000
rad4	1.36857e-12	1.000000	1.36857e-12	1.000000
rad33	1.18785e-13	1.000000	1.18785e-13	1.000000
rad35	1.03478e-13	1.000000	1.03478e-13	1.000000
rad2	7.15616e-14	1.000000	7.15617e-14	1.000000
PAH9+H	1.72512e-14	1.000000	1.72512e-14	1.000000
rad1	4.52550e-15	1.000000	4.52551e-15	1.000000
rad10	6.57206e-16	1.000000	6.57206e-16	1.000000
rad38	1.28507e-16	1.000000	1.28507e-16	1.000000
rad28	4.25464e-19	1.000000	4.25464e-19	1.000000
rad30	2.66146e-19	1.000000	2.66146e-19	1.000000
rad25	5.61096e-21	1.000000	5.61096e-21	1.000000
rad31	6.88631e-22	1.000000	6.88632e-22	1.000000
rad27	2.05612e-22	1.000000	2.05612e-22	1.000000
rad26	9.93008e-23	1.000000	9.93009e-23	1.000000
rad15	2.55405e-23	1.000000	2.55405e-23	1.000000
rad14	1.54234e-23	1.000000	1.54234e-23	1.000000
PhCCH+CH3	2.11063e-24	1.000000	2.11063e-24	1.000000
PhCHCCH2+H	4.52280e-25	1.000000	4.52280e-25	1.000000
PhCCCH3+H	3.98439e-26	1.000000	3.98439e-26	1.000000
rad46	3.25898e-26	1.000000	3.25898e-26	1.000000
rad8	1.44835e-29	1.000000	1.44835e-29	1.000000
rad9	6.06435e-30	1.000000	6.06436e-30	1.000000
Ph+MeAc	2.11620e-31	1.000000	2.11620e-31	1.000000
PAH7+H	1.28985e-32	1.000000	1.28985e-32	1.000000
Ph+Allene	1.17984e-33	1.000000	1.17984e-33	1.000000
rad12	3.78083e-34	1.000000	3.78084e-34	1.000000
rad39	2.83310e-34	1.000000	2.83311e-34	1.000000
rad60syn	5.93271e-38	1.000000	5.93272e-38	1.000000
PhCH2CCH+H	6.90939e-39	1.000000	6.90940e-39	1.000000
rad60anti	2.75992e-39	1.000000	2.75992e-39	1.000000
rad37	3.99964e-40	1.000000	3.99964e-40	1.000000
rad5	2.00505e-42	1.000000	2.00505e-42	1.000000
PAH3+H	3.10957e-46	1.000000	3.10957e-46	1.000000
rad59	1.52407e-46	1.000000	1.52407e-46	1.000000
rad50	2.85742e-47	1.000000	2.85743e-47	1.000000
rad19syn	1.38307e-51	1.000000	1.38307e-51	1.000000
rad54	3.88771e-55	1.000000	3.88772e-55	1.000000
PAH10+CH3	2.68973e-55	1.000000	2.68973e-55	1.000000
rad52	9.33877e-56	1.000000	9.33878e-56	1.000000
rad43	6.16986e-56	1.000000	6.16987e-56	1.000000
rad62	1.12938e-57	1.000000	1.12938e-57	1.000000
rad51	1.16872e-60	1.000000	1.16872e-60	1.000000
rad70	8.47751e-62	1.000000	8.47752e-62	1.000000
PhcycC3H3_A+H	5.36298e-62	1.000000	5.36299e-62	1.000000
rad55	2.65206e-62	1.000000	2.65207e-62	1.000000
rad65	1.51628e-64	1.000000	1.51629e-64	1.000000
rad58	2.43083e-65	1.000000	2.43084e-65	1.000000
PAH1+H	7.19625e-66	1.000000	7.19626e-66	1.000000
rad34	9.35444e-68	1.000000	9.35445e-68	1.000000
rad42	3.99385e-71	1.000000	3.99385e-71	1.000000
rad41	6.59253e-72	1.000000	6.59254e-72	1.000000
rad47	1.74821e-72	1.000000	1.74821e-72	1.000000

0.100000000 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.960010	0.960010	0.960012	0.960012
rad23	0.0389253	0.998935	0.0389254	0.998937
rad45	0.000764065	0.999699	0.000764066	0.999701
rad6	0.000173567	0.999873	0.000173567	0.999875

rad22	6.09447e-05	0.999934	6.09448e-05	0.999936
rad36	4.75518e-05	0.999981	4.75519e-05	0.999984
rad11	1.68745e-05	0.999998	1.68745e-05	1.00000
Benzyl+C2H2	1.52819e-06	1.000000	0.00000	1.00000
rad7	2.20499e-08	1.000000	2.20499e-08	1.00000
rad20	1.08568e-09	1.000000	1.08569e-09	1.00000
rad21	6.84911e-10	1.000000	6.84912e-10	1.00000
rad18	4.66931e-10	1.000000	4.66932e-10	1.00000
rad13	7.63913e-11	1.000000	7.63914e-11	1.00000
rad24	6.49115e-12	1.000000	6.49116e-12	1.00000
rad3	5.08781e-12	1.000000	5.08782e-12	1.00000
rad4	2.57334e-12	1.000000	2.57334e-12	1.00000
rad2	2.14147e-13	1.000000	2.14147e-13	1.00000
rad35	1.76160e-13	1.000000	1.76160e-13	1.00000
rad33	1.32586e-13	1.000000	1.32586e-13	1.00000
PAH9+H	2.65478e-14	1.000000	2.65478e-14	1.00000
rad1	1.35591e-14	1.000000	1.35591e-14	1.00000
rad10	2.76234e-15	1.000000	2.76235e-15	1.00000
rad38	1.77008e-16	1.000000	1.77009e-16	1.00000
rad28	9.50735e-19	1.000000	9.50737e-19	1.00000
rad30	3.13562e-19	1.000000	3.13563e-19	1.00000
rad25	5.23492e-21	1.000000	5.23493e-21	1.00000
rad31	1.32068e-21	1.000000	1.32068e-21	1.00000
rad27	7.09655e-22	1.000000	7.09656e-22	1.00000
rad26	4.68722e-22	1.000000	4.68722e-22	1.00000
rad14	3.54542e-23	1.000000	3.54543e-23	1.00000
rad15	3.01303e-23	1.000000	3.01303e-23	1.00000
PhCCH+CH3	5.24525e-24	1.000000	5.24526e-24	1.00000
PhCHCCH2+H	1.69627e-24	1.000000	1.69628e-24	1.00000
PhCCCH3+H	1.47800e-25	1.000000	1.47800e-25	1.00000
rad46	2.31583e-26	1.000000	2.31583e-26	1.00000
rad8	5.33307e-29	1.000000	5.33307e-29	1.00000
rad9	1.49543e-29	1.000000	1.49543e-29	1.00000
Ph+MeAc	7.66989e-31	1.000000	7.66991e-31	1.00000
PAH7+H	4.70314e-32	1.000000	4.70315e-32	1.00000
Ph+Allene	3.02123e-33	1.000000	3.02124e-33	1.00000
rad12	2.04857e-33	1.000000	2.04857e-33	1.00000
rad39	1.04464e-33	1.000000	1.04465e-33	1.00000
rad60syn	1.43787e-37	1.000000	1.43787e-37	1.00000
PhCH2CCH+H	1.83839e-38	1.000000	1.83840e-38	1.00000
rad60anti	6.98221e-39	1.000000	6.98223e-39	1.00000
rad37	1.68690e-39	1.000000	1.68690e-39	1.00000
rad5	6.14140e-42	1.000000	6.14141e-42	1.00000
PAH3+H	8.42354e-46	1.000000	8.42355e-46	1.00000
rad59	4.12631e-46	1.000000	4.12632e-46	1.00000
rad50	6.87449e-47	1.000000	6.87450e-47	1.00000
rad19syn	3.70026e-51	1.000000	3.70026e-51	1.00000
rad54	9.95453e-55	1.000000	9.95455e-55	1.00000
PAH10+CH3	6.89710e-55	1.000000	6.89711e-55	1.00000
rad52	2.51469e-55	1.000000	2.51469e-55	1.00000
rad43	1.58088e-55	1.000000	1.58089e-55	1.00000
rad62	2.77162e-57	1.000000	2.77163e-57	1.00000
rad51	2.87457e-60	1.000000	2.87457e-60	1.00000
rad70	1.77813e-61	1.000000	1.77814e-61	1.00000
PhcycC3H3_A+H	1.09905e-61	1.000000	1.09905e-61	1.00000
rad55	5.48118e-62	1.000000	5.48119e-62	1.00000
rad65	3.37244e-64	1.000000	3.37245e-64	1.00000
rad58	4.90766e-65	1.000000	4.90766e-65	1.00000
PAH1+H	1.18331e-65	1.000000	1.18331e-65	1.00000
rad34	1.44595e-67	1.000000	1.44595e-67	1.00000
rad42	5.15797e-71	1.000000	5.15798e-71	1.00000
rad41	8.26585e-72	1.000000	8.26586e-72	1.00000
rad47	2.16057e-72	1.000000	2.16057e-72	1.00000

0.100000000 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.31816e-70 (1.00)	2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.970519	0.970519	0.970521	0.970521
rad23	0.0286811	0.999200	0.0286812	0.999202
rad45	0.000535816	0.999736	0.000535817	0.999738
rad6	0.000187190	0.999923	0.000187191	0.999925
rad36	3.33206e-05	0.999956	3.33207e-05	0.999959
rad22	3.10711e-05	0.999987	3.10712e-05	0.999990
rad11	1.05040e-05	0.999998	1.05040e-05	1.000000
Benzyl+C2H2	2.26046e-06	1.00000	0.00000	1.00000

rad7	2.31633e-08	1.00000	2.31633e-08	1.00000
rad20	6.62620e-10	1.00000	6.62621e-10	1.00000
rad21	4.17763e-10	1.00000	4.17764e-10	1.00000
rad18	2.05647e-10	1.00000	2.05647e-10	1.00000
rad13	8.10761e-11	1.00000	8.10763e-11	1.00000
rad3	8.31273e-12	1.00000	8.31275e-12	1.00000
rad24	4.66204e-12	1.00000	4.66205e-12	1.00000
rad4	4.20632e-12	1.00000	4.20633e-12	1.00000
rad2	5.17587e-13	1.00000	5.17588e-13	1.00000
rad35	3.41626e-13	1.00000	3.41627e-13	1.00000
rad33	1.43036e-13	1.00000	1.43036e-13	1.00000
PAH9+H	4.66412e-14	1.00000	4.66413e-14	1.00000
rad1	3.28296e-14	1.00000	3.28296e-14	1.00000
rad10	8.62930e-15	1.00000	8.62932e-15	1.00000
rad38	2.81506e-16	1.00000	2.81507e-16	1.00000
rad28	2.26283e-18	1.00000	2.26283e-18	1.00000
rad30	7.30400e-19	1.00000	7.30401e-19	1.00000
rad25	8.21679e-21	1.00000	8.21680e-21	1.00000
rad31	2.21830e-21	1.00000	2.21831e-21	1.00000
rad27	2.20993e-21	1.00000	2.20993e-21	1.00000
rad26	1.84083e-21	1.00000	1.84084e-21	1.00000
rad14	8.56573e-23	1.00000	8.56575e-23	1.00000
rad15	5.47557e-23	1.00000	5.47559e-23	1.00000
PhCCH+CH3	1.39961e-23	1.00000	1.39961e-23	1.00000
PhCHCCH2+H	6.01849e-24	1.00000	6.01850e-24	1.00000
PhCCCH3+H	5.28424e-25	1.00000	5.28425e-25	1.00000
rad46	2.46311e-26	1.00000	2.46311e-26	1.00000
rad8	1.93829e-28	1.00000	1.93830e-28	1.00000
rad9	4.09131e-29	1.00000	4.09132e-29	1.00000
Ph+MeAc	2.81872e-30	1.00000	2.81872e-30	1.00000
PAH7+H	1.69213e-31	1.00000	1.69213e-31	1.00000
rad12	9.85759e-33	1.00000	9.85761e-33	1.00000
Ph+Allene	8.73608e-33	1.00000	8.73610e-33	1.00000
rad39	3.82276e-33	1.00000	3.82277e-33	1.00000
rad60syn	4.09561e-37	1.00000	4.09562e-37	1.00000
PhCH2CCH+H	5.63152e-38	1.00000	5.63154e-38	1.00000
rad60anti	2.02925e-38	1.00000	2.02926e-38	1.00000
rad37	6.93608e-39	1.00000	6.93610e-39	1.00000
rad5	2.07829e-41	1.00000	2.07830e-41	1.00000
PAH3+H	2.66111e-45	1.00000	2.66112e-45	1.00000
rad59	1.30207e-45	1.00000	1.30207e-45	1.00000
rad50	2.13608e-46	1.00000	2.13608e-46	1.00000
rad19syn	1.19630e-50	1.00000	1.19631e-50	1.00000
rad54	3.13758e-54	1.00000	3.13758e-54	1.00000
PAH10+CH3	2.17828e-54	1.00000	2.17829e-54	1.00000
rad52	8.15350e-55	1.00000	8.15352e-55	1.00000
rad43	4.99493e-55	1.00000	4.99494e-55	1.00000
rad62	8.49620e-57	1.00000	8.49622e-57	1.00000
rad51	8.81782e-60	1.00000	8.81784e-60	1.00000
rad70	4.87039e-61	1.00000	4.87041e-61	1.00000
PhcycC3H3_A+H	2.96137e-61	1.00000	2.96138e-61	1.00000
rad55	1.48538e-61	1.00000	1.48538e-61	1.00000
rad65	9.63368e-64	1.00000	9.63370e-64	1.00000
rad58	1.30824e-64	1.00000	1.30824e-64	1.00000
PAH1+H	2.72753e-65	1.00000	2.72754e-65	1.00000
rad34	3.19568e-67	1.00000	3.19569e-67	1.00000
rad42	1.01138e-70	1.00000	1.01138e-70	1.00000
rad41	1.59085e-71	1.00000	1.59086e-71	1.00000
rad47	4.09204e-72	1.00000	4.09205e-72	1.00000

0.100000000 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.44107e-61 (1.00)	8.44104e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.977867	0.977867	0.977870	0.977870
rad23	0.0214933	0.999360	0.0214933	0.999363
rad45	0.000387142	0.999747	0.000387144	0.999750
rad6	0.000199358	0.999947	0.000199359	0.999950
rad36	2.40552e-05	0.999971	2.40552e-05	0.999974
rad22	1.92539e-05	0.999990	1.92540e-05	0.999993
rad11	6.96886e-06	0.999997	6.96888e-06	1.00000
Benzyl+C2H2	3.25224e-06	1.00000	0.00000	1.00000
rad7	2.41278e-08	1.00000	2.41279e-08	1.00000
rad20	4.55944e-10	1.00000	4.55946e-10	1.00000
rad21	2.87347e-10	1.00000	2.87348e-10	1.00000
rad18	1.10279e-10	1.00000	1.10279e-10	1.00000

rad13	8.55052e-11	1.00000	8.55054e-11	1.00000
rad3	1.26882e-11	1.00000	1.26882e-11	1.00000
rad4	6.42387e-12	1.00000	6.42389e-12	1.00000
rad24	3.43926e-12	1.00000	3.43927e-12	1.00000
rad2	1.13465e-12	1.00000	1.13466e-12	1.00000
rad35	6.96631e-13	1.00000	6.96633e-13	1.00000
rad33	1.52551e-13	1.00000	1.52552e-13	1.00000
PAH9+H	1.01438e-13	1.00000	1.01439e-13	1.00000
rad1	7.21245e-14	1.00000	7.21248e-14	1.00000
rad10	2.34654e-14	1.00000	2.34654e-14	1.00000
rad38	5.75819e-16	1.00000	5.75821e-16	1.00000
rad30	2.95501e-17	1.00000	2.95502e-17	1.00000
rad28	6.23434e-18	1.00000	6.23436e-18	1.00000
rad25	2.20795e-20	1.00000	2.20796e-20	1.00000
rad26	7.36419e-21	1.00000	7.36422e-21	1.00000
rad27	7.19556e-21	1.00000	7.19558e-21	1.00000
rad31	3.50027e-21	1.00000	3.50028e-21	1.00000
rad15	6.38935e-22	1.00000	6.38937e-22	1.00000
rad14	2.39656e-22	1.00000	2.39657e-22	1.00000
PhCCH+CH3	4.36909e-23	1.00000	4.36910e-23	1.00000
PhCHCCH2+H	2.34041e-23	1.00000	2.34042e-23	1.00000
PhCCCH3+H	2.09438e-24	1.00000	2.09439e-24	1.00000
rad46	3.89071e-26	1.00000	3.89072e-26	1.00000
rad8	7.92421e-28	1.00000	7.92424e-28	1.00000
rad9	1.33154e-28	1.00000	1.33155e-28	1.00000
Ph+MeAc	1.18616e-29	1.00000	1.18616e-29	1.00000
PAH7+H	6.80599e-31	1.00000	6.80601e-31	1.00000
rad12	5.06149e-32	1.00000	5.06151e-32	1.00000
Ph+Allene	3.04115e-32	1.00000	3.04116e-32	1.00000
rad39	1.57014e-32	1.00000	1.57014e-32	1.00000
rad60syn	1.40898e-36	1.00000	1.40898e-36	1.00000
PhCH2CCH+H	2.10486e-37	1.00000	2.10486e-37	1.00000
rad60anti	7.12223e-38	1.00000	7.12225e-38	1.00000
rad37	3.22905e-38	1.00000	3.22906e-38	1.00000
rad5	8.47842e-41	1.00000	8.47845e-41	1.00000
PAH3+H	1.03494e-44	1.00000	1.03495e-44	1.00000
rad59	5.05597e-45	1.00000	5.05598e-45	1.00000
rad50	8.22191e-46	1.00000	8.22193e-46	1.00000
rad19syn	4.88363e-50	1.00000	4.88365e-50	1.00000
rad54	1.26580e-53	1.00000	1.26580e-53	1.00000
PAH10+CH3	8.81701e-54	1.00000	8.81704e-54	1.00000
rad52	3.33010e-54	1.00000	3.33011e-54	1.00000
rad43	2.02252e-54	1.00000	2.02252e-54	1.00000
rad62	3.36979e-56	1.00000	3.36980e-56	1.00000
rad51	3.49629e-59	1.00000	3.49630e-59	1.00000
rad70	1.78346e-60	1.00000	1.78346e-60	1.00000
PhcycC3H3_A+H	1.07191e-60	1.00000	1.07191e-60	1.00000
rad55	5.39764e-61	1.00000	5.39766e-61	1.00000
rad65	3.63504e-63	1.00000	3.63505e-63	1.00000
rad58	4.69907e-64	1.00000	4.69909e-64	1.00000
PAH1+H	8.83951e-65	1.00000	8.83954e-65	1.00000
rad34	1.00620e-66	1.00000	1.00620e-66	1.00000
rad42	2.93930e-70	1.00000	2.93931e-70	1.00000
rad41	4.57154e-71	1.00000	4.57155e-71	1.00000
rad47	1.13706e-71	1.00000	1.13706e-71	1.00000

0.100000000 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.61998e-54 (1.00)	5.61996e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.983146	0.983146	0.983151	0.983151
rad23	0.0163167	0.999463	0.0163168	0.999468
rad45	0.000285615	0.999748	0.000285616	0.999753
rad6	0.000211352	0.999960	0.000211353	0.999965
rad36	1.77328e-05	0.999977	1.77329e-05	0.999983
rad22	1.30976e-05	0.999990	1.30976e-05	0.999996
rad11	4.83471e-06	0.999995	4.83473e-06	1.00000
Benzyl+C2H2	4.55551e-06	1.000000	0.00000	1.00000
rad7	2.51066e-08	1.000000	2.51067e-08	1.00000
rad20	3.37013e-10	1.000000	3.37015e-10	1.00000
rad21	2.12348e-10	1.000000	2.12349e-10	1.00000
rad13	9.00816e-11	1.000000	9.00820e-11	1.00000
rad18	6.66653e-11	1.000000	6.66656e-11	1.00000
rad3	1.86095e-11	1.000000	1.86096e-11	1.00000
rad4	9.42775e-12	1.000000	9.42779e-12	1.00000
rad24	2.58515e-12	1.000000	2.58516e-12	1.00000

rad2	2.36445e-12	1.000000	2.36446e-12	1.00000
rad35	1.34864e-12	1.000000	1.34865e-12	1.00000
PAH9+H	2.50120e-13	1.000000	2.50121e-13	1.00000
rad33	1.62069e-13	1.000000	1.62070e-13	1.00000
rad1	1.50672e-13	1.000000	1.50672e-13	1.00000
rad10	5.90933e-14	1.000000	5.90936e-14	1.00000
rad38	1.71480e-15	1.000000	1.71481e-15	1.00000
rad30	1.03898e-15	1.000000	1.03898e-15	1.00000
rad28	2.20731e-17	1.000000	2.20732e-17	1.00000
rad25	2.74726e-19	1.000000	2.74728e-19	1.00000
rad15	9.51151e-20	1.000000	9.51156e-20	1.00000
rad26	3.42340e-20	1.000000	3.42341e-20	1.00000
rad27	2.62214e-20	1.000000	2.62215e-20	1.00000
rad31	5.33119e-21	1.000000	5.33121e-21	1.00000
rad14	8.72366e-22	1.000000	8.72370e-22	1.00000
PhCCH+CH3	1.79438e-22	1.000000	1.79439e-22	1.00000
PhCHCCH2+H	1.14228e-22	1.000000	1.14229e-22	1.00000
PhCCCH3+H	1.05428e-23	1.000000	1.05428e-23	1.00000
rad46	1.08555e-25	1.000000	1.08555e-25	1.00000
rad8	4.17060e-27	1.000000	4.17062e-27	1.00000
rad9	5.76108e-28	1.000000	5.76111e-28	1.00000
Ph+MeAc	6.52329e-29	1.000000	6.52332e-29	1.00000
PAH7+H	3.50090e-30	1.000000	3.50092e-30	1.00000
rad12	3.24853e-31	1.000000	3.24855e-31	1.00000
Ph+Allene	1.41833e-31	1.000000	1.41834e-31	1.00000
rad39	8.27039e-32	1.000000	8.27042e-32	1.00000
rad60syn	6.49472e-36	1.000000	6.49475e-36	1.00000
PhCH2CCH+H	1.06376e-36	1.000000	1.06376e-36	1.00000
rad60anti	3.35364e-37	1.000000	3.35366e-37	1.00000
rad37	1.95865e-37	1.000000	1.95865e-37	1.00000
rad5	4.67064e-40	1.000000	4.67066e-40	1.00000
PAH3+H	5.47612e-44	1.000000	5.47615e-44	1.00000
rad59	2.67017e-44	1.000000	2.67018e-44	1.00000
rad50	4.30483e-45	1.000000	4.30485e-45	1.00000
rad19syn	2.76195e-49	1.000000	2.76196e-49	1.00000
rad54	7.14664e-53	1.000000	7.14667e-53	1.00000
PAH10+CH3	5.00120e-53	1.000000	5.00122e-53	1.00000
rad52	1.88109e-53	1.000000	1.88110e-53	1.00000
rad43	1.14747e-53	1.000000	1.14747e-53	1.00000
rad62	1.88598e-55	1.000000	1.88599e-55	1.00000
rad51	1.95459e-58	1.000000	1.95460e-58	1.00000
rad70	9.44416e-60	1.000000	9.44420e-60	1.00000
PhcycC3H3_A+H	5.63059e-60	1.000000	5.63062e-60	1.00000
rad55	2.84287e-60	1.000000	2.84288e-60	1.00000
rad65	1.96574e-62	1.000000	1.96575e-62	1.00000
rad58	2.45504e-63	1.000000	2.45505e-63	1.00000
PAH1+H	4.29879e-64	1.000000	4.29881e-64	1.00000
rad34	4.79843e-66	1.000000	4.79845e-66	1.00000
rad42	1.33008e-69	1.000000	1.33009e-69	1.00000
rad41	2.05695e-70	1.000000	2.05696e-70	1.00000
rad47	4.85756e-71	1.000000	4.85758e-71	1.00000

0.100000000 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.28864e-49 (1.00)	7.28860e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.987018	0.987018	0.987024	0.987024
rad23	0.0125120	0.999530	0.0125121	0.999536
rad6	0.000223842	0.999754	0.000223843	0.999760
rad45	0.000213973	0.999968	0.000213975	0.999974
rad36	1.32758e-05	0.999981	1.32759e-05	0.999987
rad22	9.36499e-06	0.999990	9.36505e-06	0.999997
Benzyl+C2H2	6.25108e-06	0.999997	0.00000	0.999997
rad11	3.46655e-06	1.00000	3.46657e-06	1.00000
rad7	2.61717e-08	1.00000	2.61718e-08	1.00000
rad20	2.61125e-10	1.00000	2.61127e-10	1.00000
rad21	1.64522e-10	1.00000	1.64523e-10	1.00000
rad13	9.50163e-11	1.00000	9.50169e-11	1.00000
rad18	4.36530e-11	1.00000	4.36533e-11	1.00000
rad3	2.65700e-11	1.00000	2.65701e-11	1.00000
rad4	1.34703e-11	1.00000	1.34704e-11	1.00000
rad2	4.78495e-12	1.00000	4.78498e-12	1.00000
rad35	2.40854e-12	1.00000	2.40855e-12	1.00000
rad24	1.97017e-12	1.00000	1.97018e-12	1.00000
PAH9+H	6.00465e-13	1.00000	6.00468e-13	1.00000
rad1	3.05767e-13	1.00000	3.05768e-13	1.00000

rad33	1.72088e-13	1.00000	1.72089e-13	1.00000
rad10	1.41396e-13	1.00000	1.41397e-13	1.00000
rad30	1.51744e-14	1.00000	1.51745e-14	1.00000
rad38	6.28802e-15	1.00000	6.28806e-15	1.00000
rad28	1.02425e-16	1.00000	1.02426e-16	1.00000
rad25	6.02023e-18	1.00000	6.02027e-18	1.00000
rad15	4.85320e-18	1.00000	4.85323e-18	1.00000
rad26	1.96531e-19	1.00000	1.96532e-19	1.00000
rad27	1.03217e-19	1.00000	1.03218e-19	1.00000
rad31	7.93604e-21	1.00000	7.93609e-21	1.00000
rad14	4.69052e-21	1.00000	4.69055e-21	1.00000
PhCCH+CH3	1.16484e-21	1.00000	1.16485e-21	1.00000
PhCHCCH2+H	8.12551e-22	1.00000	8.12556e-22	1.00000
PhCCCH3+H	7.98975e-23	1.00000	7.98980e-23	1.00000
rad46	1.19014e-24	1.00000	1.19015e-24	1.00000
rad8	3.41355e-26	1.00000	3.41357e-26	1.00000
rad9	4.03624e-27	1.00000	4.03627e-27	1.00000
Ph+MeAc	5.72389e-28	1.00000	5.72392e-28	1.00000
PAH7+H	2.83620e-29	1.00000	2.83622e-29	1.00000
rad12	3.21312e-30	1.00000	3.21314e-30	1.00000
Ph+Allene	1.07570e-30	1.00000	1.07571e-30	1.00000
rad39	6.87551e-31	1.00000	6.87555e-31	1.00000
rad60syn	4.88943e-35	1.00000	4.88946e-35	1.00000
PhCH2CCH+H	8.79945e-36	1.00000	8.79950e-36	1.00000
rad60anti	2.57295e-36	1.00000	2.57296e-36	1.00000
rad37	1.90945e-36	1.00000	1.90947e-36	1.00000
rad5	4.23060e-39	1.00000	4.23063e-39	1.00000
PAH3+H	4.76351e-43	1.00000	4.76354e-43	1.00000
rad59	2.31775e-43	1.00000	2.31776e-43	1.00000
rad50	3.70749e-44	1.00000	3.70751e-44	1.00000
rad19syn	2.60245e-48	1.00000	2.60246e-48	1.00000
rad54	6.77505e-52	1.00000	6.77509e-52	1.00000
PAH10+CH3	4.77056e-52	1.00000	4.77059e-52	1.00000
rad52	1.76815e-52	1.00000	1.76816e-52	1.00000
rad43	1.09466e-52	1.00000	1.09467e-52	1.00000
rad62	1.78412e-54	1.00000	1.78413e-54	1.00000
rad51	1.84542e-57	1.00000	1.84543e-57	1.00000
rad70	8.61339e-59	1.00000	8.61344e-59	1.00000
PhcycC3H3_A+H	5.10761e-59	1.00000	5.10764e-59	1.00000
rad55	2.58337e-59	1.00000	2.58338e-59	1.00000
rad65	1.81824e-61	1.00000	1.81825e-61	1.00000
rad58	2.21891e-62	1.00000	2.21892e-62	1.00000
PAH1+H	3.70292e-63	1.00000	3.70295e-63	1.00000
rad34	4.08104e-65	1.00000	4.08106e-65	1.00000
rad42	1.09557e-68	1.00000	1.09558e-68	1.00000
rad41	1.69307e-69	1.00000	1.69308e-69	1.00000
rad47	3.73290e-70	1.00000	3.73293e-70	1.00000

0.100000000 Pa, 90.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.85154e-45 (1.00)	6.85148e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.989902	0.989902	0.989911	0.989911
rad23	0.00967014	0.999572	0.00967022	0.999581
rad6	0.000237262	0.999809	0.000237264	0.999818
rad45	0.000162179	0.999972	0.000162181	0.999981
rad36	1.00567e-05	0.999982	1.00568e-05	0.999991
Benzyl+C2H2	8.44840e-06	0.999990	0.00000	0.999991
rad22	6.89656e-06	0.999997	6.89661e-06	0.999998
rad11	2.54890e-06	1.000000	2.54892e-06	1.000000
rad7	2.73637e-08	1.000000	2.73639e-08	1.000000
rad20	2.09117e-10	1.000000	2.09119e-10	1.000000
rad21	1.31765e-10	1.000000	1.31766e-10	1.000000
rad13	1.00451e-10	1.000000	1.00452e-10	1.000000
rad3	3.71515e-11	1.000000	3.71518e-11	1.000000
rad18	3.02480e-11	1.000000	3.02483e-11	1.000000
rad4	1.88499e-11	1.000000	1.88501e-11	1.000000
rad2	9.48894e-12	1.000000	9.48902e-12	1.000000
rad35	4.00148e-12	1.000000	4.00151e-12	1.000000
rad24	1.51731e-12	1.000000	1.51732e-12	1.000000
PAH9+H	1.31337e-12	1.000000	1.31338e-12	1.000000
rad1	6.08226e-13	1.000000	6.08232e-13	1.000000
rad10	3.24365e-13	1.000000	3.24368e-13	1.000000
rad33	1.82938e-13	1.000000	1.82939e-13	1.000000
rad30	1.20908e-13	1.000000	1.20909e-13	1.000000
rad38	2.16940e-14	1.000000	2.16942e-14	1.000000

rad28	5.21690e-16	1.000000	5.21694e-16	1.00000
rad15	1.02330e-16	1.000000	1.02331e-16	1.00000
rad25	7.47198e-17	1.000000	7.47205e-17	1.00000
rad26	1.29306e-18	1.000000	1.29307e-18	1.00000
rad27	3.95542e-19	1.000000	3.95546e-19	1.00000
rad14	3.40306e-20	1.000000	3.40309e-20	1.00000
PhCCH+CH3	1.31412e-20	1.000000	1.31413e-20	1.00000
rad31	1.16136e-20	1.000000	1.16137e-20	1.00000
PhCHCCH2+H	8.63671e-21	1.000000	8.63678e-21	1.00000
PhCCCH3+H	9.80787e-22	1.000000	9.80795e-22	1.00000
rad46	4.53976e-23	1.000000	4.53980e-23	1.00000
rad8	5.10357e-25	1.000000	5.10362e-25	1.00000
rad9	1.21136e-25	1.000000	1.21137e-25	1.00000
Ph+MeAc	1.01267e-26	1.000000	1.01267e-26	1.00000
PAH7+H	4.80213e-28	1.000000	4.80217e-28	1.00000
rad12	6.11657e-29	1.000000	6.11663e-29	1.00000
Ph+Allene	1.76459e-29	1.000000	1.76461e-29	1.00000
rad39	1.20234e-29	1.000000	1.20235e-29	1.00000
rad60syn	8.62245e-34	1.000000	8.62252e-34	1.00000
PhCH2CCH+H	1.58159e-34	1.000000	1.58160e-34	1.00000
rad60anti	4.36001e-35	1.000000	4.36004e-35	1.00000
rad37	3.96820e-35	1.000000	3.96824e-35	1.00000
rad5	8.35556e-38	1.000000	8.35563e-38	1.00000
PAH3+H	9.03234e-42	1.000000	9.03242e-42	1.00000
rad59	4.38457e-42	1.000000	4.38461e-42	1.00000
rad50	7.07062e-43	1.000000	7.07068e-43	1.00000
rad19syn	5.39993e-47	1.000000	5.39997e-47	1.00000
rad54	1.42312e-50	1.000000	1.42313e-50	1.00000
PAH10+CH3	1.01034e-50	1.000000	1.01035e-50	1.00000
rad52	3.65652e-51	1.000000	3.65655e-51	1.00000
rad43	2.31835e-51	1.000000	2.31837e-51	1.00000
rad62	3.76092e-53	1.000000	3.76095e-53	1.00000
rad51	3.87865e-56	1.000000	3.87869e-56	1.00000
rad70	1.77627e-57	1.000000	1.77629e-57	1.00000
PhcycC3H3_A+H	1.04981e-57	1.000000	1.04982e-57	1.00000
rad55	5.31556e-58	1.000000	5.31560e-58	1.00000
rad65	3.78213e-60	1.000000	3.78216e-60	1.00000
rad58	4.55046e-61	1.000000	4.55050e-61	1.00000
PAH1+H	7.37160e-62	1.000000	7.37166e-62	1.00000
rad34	8.06352e-64	1.000000	8.06359e-64	1.00000
rad42	2.13056e-67	1.000000	2.13057e-67	1.00000
rad41	3.30895e-68	1.000000	3.30898e-68	1.00000
rad47	6.70073e-69	1.000000	6.70079e-69	1.00000

0.100000000 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02670e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.992078	0.992078	0.992089	0.992089
rad23	0.00751967	0.999598	0.00751976	0.999609
rad6	0.000251942	0.999850	0.000251945	0.999861
rad45	0.000124031	0.999974	0.000124032	0.999985
Benzyl+C2H2	1.12911e-05	0.999985	0.00000	0.999985
rad36	7.68805e-06	0.999993	7.68813e-06	0.999992
rad22	5.17572e-06	0.999998	5.17577e-06	0.999998
rad11	1.91143e-06	1.000000	1.91145e-06	1.000000
rad7	2.87117e-08	1.000000	2.87120e-08	1.000000
rad20	1.71562e-10	1.000000	1.71564e-10	1.000000
rad21	1.08125e-10	1.000000	1.08126e-10	1.000000
rad13	1.06504e-10	1.000000	1.06505e-10	1.000000
rad3	5.10009e-11	1.000000	5.10015e-11	1.000000
rad4	2.58996e-11	1.000000	2.58999e-11	1.000000
rad18	2.18534e-11	1.000000	2.18536e-11	1.000000
rad2	1.84895e-11	1.000000	1.84897e-11	1.000000
rad35	6.28691e-12	1.000000	6.28698e-12	1.000000
PAH9+H	2.60753e-12	1.000000	2.60756e-12	1.000000
rad1	1.18914e-12	1.000000	1.18916e-12	1.000000
rad24	1.17804e-12	1.000000	1.17805e-12	1.000000
rad10	7.14900e-13	1.000000	7.14908e-13	1.000000
rad30	6.32240e-13	1.000000	6.32247e-13	1.000000
rad33	1.94880e-13	1.000000	1.94883e-13	1.000000
rad38	6.42510e-14	1.000000	6.42517e-14	1.000000
rad28	2.45862e-15	1.000000	2.45864e-15	1.000000
rad15	1.16319e-15	1.000000	1.16320e-15	1.000000
rad25	5.48150e-16	1.000000	5.48156e-16	1.000000
rad26	8.53442e-18	1.000000	8.53452e-18	1.000000

rad27	1.37018e-18	1.000000	1.37020e-18	1.000000
rad14	2.44186e-19	1.000000	2.44189e-19	1.000000
PhCCH+CH3	1.89178e-19	1.000000	1.89180e-19	1.000000
PhCHCCH2+H	1.10689e-19	1.000000	1.10690e-19	1.000000
rad31	1.67510e-20	1.000000	1.67512e-20	1.000000
PhCCCH3+H	1.53770e-20	1.000000	1.53771e-20	1.000000
rad46	1.30171e-21	1.000000	1.30172e-21	1.000000
rad8	1.15513e-23	1.000000	1.15514e-23	1.000000
rad9	9.99266e-24	1.000000	9.99278e-24	1.000000
Ph+MeAc	3.55309e-25	1.000000	3.55313e-25	1.000000
PAH7+H	1.67503e-26	1.000000	1.67505e-26	1.000000
rad12	2.10749e-27	1.000000	2.10752e-27	1.000000
Ph+Allene	7.05411e-28	1.000000	7.05419e-28	1.000000
rad39	4.75718e-28	1.000000	4.75723e-28	1.000000
rad60syn	5.81798e-32	1.000000	5.81805e-32	1.000000
PhCH2CCH+H	6.94141e-33	1.000000	6.94149e-33	1.000000
rad60anti	2.09658e-33	1.000000	2.09660e-33	1.000000
rad37	1.91715e-33	1.000000	1.91717e-33	1.000000
rad5	3.97694e-36	1.000000	3.97699e-36	1.000000
PAH3+H	4.19223e-40	1.000000	4.19228e-40	1.000000
rad59	2.02998e-40	1.000000	2.03000e-40	1.000000
rad50	3.67070e-41	1.000000	3.67074e-41	1.000000
rad19syn	2.76448e-45	1.000000	2.76451e-45	1.000000
rad54	7.41272e-49	1.000000	7.41280e-49	1.000000
PAH10+CH3	5.32157e-49	1.000000	5.32163e-49	1.000000
rad52	1.86507e-49	1.000000	1.86510e-49	1.000000
rad43	1.22104e-49	1.000000	1.22105e-49	1.000000
rad62	1.97631e-51	1.000000	1.97633e-51	1.000000
rad51	2.02939e-54	1.000000	2.02941e-54	1.000000
rad70	9.23544e-56	1.000000	9.23554e-56	1.000000
PhcycC3H3_A+H	5.44940e-56	1.000000	5.44946e-56	1.000000
rad55	2.76071e-56	1.000000	2.76074e-56	1.000000
rad65	1.97484e-58	1.000000	1.97486e-58	1.000000
rad58	2.35942e-59	1.000000	2.35945e-59	1.000000
PAH1+H	3.76523e-60	1.000000	3.76527e-60	1.000000
rad34	4.10457e-62	1.000000	4.10462e-62	1.000000
rad42	1.08275e-65	1.000000	1.08277e-65	1.000000
rad41	1.70512e-66	1.000000	1.70514e-66	1.000000
rad47	3.11028e-67	1.000000	3.11031e-67	1.000000

0.100000000 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04926e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.993735	0.993735	0.993749	0.993749
rad23	0.00587538	0.999610	0.00587547	0.999624
rad6	0.000268174	0.999879	0.000268178	0.999893
rad45	9.55217e-05	0.999974	9.55231e-05	0.999988
Benzyl+C2H2	1.49657e-05	0.999989	0.00000	0.999988
rad36	5.91953e-06	0.999995	5.91962e-06	0.999994
rad22	3.93455e-06	0.999999	3.93461e-06	0.999998
rad11	1.45609e-06	1.00000	1.45611e-06	0.999999
rad7	3.02410e-08	1.00000	3.02415e-08	1.000000
rad20	1.43345e-10	1.00000	1.43347e-10	1.000000
rad13	1.13284e-10	1.00000	1.13286e-10	1.000000
rad21	9.03716e-11	1.00000	9.03730e-11	1.000000
rad3	6.87951e-11	1.00000	6.87961e-11	1.000000
rad2	3.53970e-11	1.00000	3.53976e-11	1.000000
rad4	3.49700e-11	1.00000	3.49705e-11	1.000000
rad18	1.62989e-11	1.00000	1.62991e-11	1.000000
rad35	9.48337e-12	1.00000	9.48351e-12	1.000000
PAH9+H	4.77424e-12	1.00000	4.77431e-12	1.000000
rad30	2.44331e-12	1.00000	2.44334e-12	1.000000
rad1	2.28491e-12	1.00000	2.28494e-12	1.000000
rad10	1.51439e-12	1.00000	1.51441e-12	1.000000
rad24	9.20417e-13	1.00000	9.20431e-13	1.000000
rad33	2.08155e-13	1.00000	2.08158e-13	1.000000
rad38	1.64276e-13	1.00000	1.64279e-13	1.000000
rad28	1.01282e-14	1.00000	1.01283e-14	1.000000
rad15	8.46836e-15	1.00000	8.46849e-15	1.000000
rad25	2.70243e-15	1.00000	2.70247e-15	1.000000
rad26	5.20337e-17	1.00000	5.20345e-17	1.000000
rad27	4.19759e-18	1.00000	4.19765e-18	1.000000
PhCCH+CH3	2.43259e-18	1.00000	2.43263e-18	1.000000
rad14	1.43942e-18	1.00000	1.43944e-18	1.000000
PhCHCCH2+H	1.35077e-18	1.00000	1.35079e-18	1.000000

PhCCCH3+H	2.26090e-19	1.00000	2.26093e-19	1.000000
rad31	2.38432e-20	1.00000	2.38435e-20	1.000000
rad46	2.19826e-20	1.00000	2.19829e-20	1.000000
rad9	4.71523e-22	1.00000	4.71530e-22	1.000000
rad8	2.62120e-22	1.00000	2.62124e-22	1.000000
Ph+MeAc	1.58964e-23	1.00000	1.58966e-23	1.000000
PAH7+H	6.72617e-25	1.00000	6.72627e-25	1.000000
Ph+Allene	1.78202e-25	1.00000	1.78205e-25	1.000000
rad12	8.50372e-26	1.00000	8.50385e-26	1.000000
rad60syn	2.69939e-26	1.00000	2.69943e-26	1.000000
rad39	2.56295e-26	1.00000	2.56299e-26	1.000000
rad60anti	1.02497e-27	1.00000	1.02498e-27	1.000000
PhCH2CCH+H	6.83153e-31	1.00000	6.83163e-31	1.000000
rad37	1.87895e-31	1.00000	1.87898e-31	1.000000
rad5	4.05230e-34	1.00000	4.05237e-34	1.000000
PAH3+H	4.37319e-38	1.00000	4.37325e-38	1.000000
rad59	2.11220e-38	1.00000	2.11223e-38	1.000000
rad50	6.44415e-39	1.00000	6.44425e-39	1.000000
rad19syn	3.19897e-43	1.00000	3.19902e-43	1.000000
rad54	8.76439e-47	1.00000	8.76452e-47	1.000000
PAH10+CH3	6.38942e-47	1.00000	6.38951e-47	1.000000
rad52	2.15762e-47	1.00000	2.15765e-47	1.000000
rad43	1.46605e-47	1.00000	1.46607e-47	1.000000
rad62	2.37018e-49	1.00000	2.37021e-49	1.000000
rad51	2.41907e-52	1.00000	2.41910e-52	1.000000
rad70	1.10523e-53	1.00000	1.10524e-53	1.000000
PhcycC3H3_A+H	6.51978e-54	1.00000	6.51988e-54	1.000000
rad55	3.30332e-54	1.00000	3.30337e-54	1.000000
rad65	2.36521e-56	1.00000	2.36525e-56	1.000000
rad58	2.82235e-57	1.00000	2.82240e-57	1.000000
PAH1+H	4.49065e-58	1.00000	4.49072e-58	1.000000
rad34	4.89477e-60	1.00000	4.89484e-60	1.000000
rad42	1.30985e-63	1.00000	1.30987e-63	1.000000
rad41	2.13061e-64	1.00000	2.13064e-64	1.000000
rad47	3.39155e-65	1.00000	3.39160e-65	1.000000

0.100000000 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87094e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.995004	0.995004	0.995023	0.995023
rad23	0.00460759	0.999612	0.00460768	0.999631
rad6	0.000286239	0.999898	0.000286244	0.999917
rad45	7.39690e-05	0.999972	7.39705e-05	0.999991
Benzyl+C2H2	1.97118e-05	0.999992	0.00000	0.999991
rad36	4.58368e-06	0.999996	4.58377e-06	0.999995
rad22	3.01840e-06	0.999999	3.01846e-06	0.999998
rad11	1.12346e-06	1.00000	1.12348e-06	1.000000
rad7	3.19765e-08	1.00000	3.19771e-08	1.000000
rad20	1.21476e-10	1.00000	1.21479e-10	1.000000
rad13	1.20904e-10	1.00000	1.20907e-10	1.000000
rad3	9.12041e-11	1.00000	9.12059e-11	1.000000
rad21	7.66192e-11	1.00000	7.66207e-11	1.000000
rad2	6.65274e-11	1.00000	6.65287e-11	1.000000
rad4	4.64103e-11	1.00000	4.64113e-11	1.000000
rad35	1.38974e-11	1.00000	1.38977e-11	1.000000
rad18	1.24618e-11	1.00000	1.24620e-11	1.000000
PAH9+H	8.20772e-12	1.00000	8.20788e-12	1.000000
rad30	7.55422e-12	1.00000	7.55437e-12	1.000000
rad1	4.31159e-12	1.00000	4.31167e-12	1.000000
rad10	3.08631e-12	1.00000	3.08637e-12	1.000000
rad24	7.22696e-13	1.00000	7.22710e-13	1.000000
rad38	3.72628e-13	1.00000	3.72635e-13	1.000000
rad33	2.22998e-13	1.00000	2.23003e-13	1.000000
rad15	4.42896e-14	1.00000	4.42904e-14	1.000000
rad28	3.65710e-14	1.00000	3.65717e-14	1.000000
rad25	9.86247e-15	1.00000	9.86266e-15	1.000000
rad26	2.85154e-16	1.00000	2.85160e-16	1.000000
PhCCH+CH3	2.48013e-17	1.00000	2.48017e-17	1.000000
PhCHCCH2+H	1.39366e-17	1.00000	1.39368e-17	1.000000
rad27	1.14449e-17	1.00000	1.14451e-17	1.000000
rad14	6.72806e-18	1.00000	6.72819e-18	1.000000
PhCCCH3+H	2.71833e-18	1.00000	2.71838e-18	1.000000
rad46	2.37926e-19	1.00000	2.37931e-19	1.000000
rad31	3.35233e-20	1.00000	3.35240e-20	1.000000
rad9	1.22198e-20	1.00000	1.22201e-20	1.000000

rad8	4.74614e-21	1.00000	4.74623e-21	1.000000
Ph+MeAc	5.48020e-22	1.00000	5.48031e-22	1.000000
PAH7+H	2.03782e-23	1.00000	2.03786e-23	1.000000
Ph+Allene	1.33623e-23	1.00000	1.33625e-23	1.000000
rad12	2.72432e-24	1.00000	2.72437e-24	1.000000
rad60syn	1.65206e-24	1.00000	1.65209e-24	1.000000
rad39	1.02113e-24	1.00000	1.02115e-24	1.000000
rad60anti	9.93059e-26	1.00000	9.93079e-26	1.000000
PhCH2CCH+H	8.44201e-29	1.00000	8.44218e-29	1.000000
rad37	2.13422e-29	1.00000	2.13426e-29	1.000000
rad5	4.96321e-32	1.00000	4.96331e-32	1.000000
PAH3+H	5.74975e-36	1.00000	5.74987e-36	1.000000
rad59	2.77043e-36	1.00000	2.77049e-36	1.000000
rad50	1.87660e-36	1.00000	1.87663e-36	1.000000
rad19syn	4.67649e-41	1.00000	4.67658e-41	1.000000
rad54	1.31390e-44	1.00000	1.31392e-44	1.000000
PAH10+CH3	9.78954e-45	1.00000	9.78973e-45	1.000000
rad52	3.20661e-45	1.00000	3.20668e-45	1.000000
rad43	2.24652e-45	1.00000	2.24656e-45	1.000000
rad62	3.62723e-47	1.00000	3.62730e-47	1.000000
rad51	3.67635e-50	1.00000	3.67643e-50	1.000000
rad70	1.69721e-51	1.00000	1.69725e-51	1.000000
PhcycC3H3_A+H	1.00213e-51	1.00000	1.00215e-51	1.000000
rad55	5.07605e-52	1.00000	5.07615e-52	1.000000
rad65	3.62869e-54	1.00000	3.62876e-54	1.000000
rad58	4.34081e-55	1.00000	4.34090e-55	1.000000
PAH1+H	6.95727e-56	1.00000	6.95741e-56	1.000000
rad34	7.60353e-58	1.00000	7.60368e-58	1.000000
rad42	2.11992e-61	1.00000	2.11997e-61	1.000000
rad41	3.72943e-62	1.00000	3.72950e-62	1.000000
rad47	4.83145e-63	1.00000	4.83154e-63	1.000000

0.100000000 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.94360e-35 (1.00)	3.94350e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.995980	0.995980	0.996006	0.996006
rad23	0.00362354	0.999604	0.00362363	0.999630
rad6	0.000306424	0.999910	0.000306432	0.999936
rad45	5.75253e-05	0.999967	5.75268e-05	0.999994
Benzyl+C2H2	2.58339e-05	0.999993	0.00000	0.999994
rad36	3.56523e-06	0.999997	3.56533e-06	0.999997
rad22	2.33098e-06	0.999999	2.33104e-06	0.999999
rad11	8.76000e-07	1.00000	8.76023e-07	1.00000
rad7	3.39440e-08	1.00000	3.39449e-08	1.00000
rad13	1.29486e-10	1.00000	1.29489e-10	1.00000
rad2	1.22696e-10	1.00000	1.22699e-10	1.00000
rad3	1.18862e-10	1.00000	1.18865e-10	1.00000
rad20	1.04102e-10	1.00000	1.04105e-10	1.00000
rad21	6.56983e-11	1.00000	6.57000e-11	1.00000
rad4	6.05549e-11	1.00000	6.05564e-11	1.00000
rad35	1.99576e-11	1.00000	1.99581e-11	1.00000
rad30	1.97399e-11	1.00000	1.97404e-11	1.00000
PAH9+H	1.34534e-11	1.00000	1.34537e-11	1.00000
rad18	9.71799e-12	1.00000	9.71824e-12	1.00000
rad1	7.98646e-12	1.00000	7.98667e-12	1.00000
rad10	6.06440e-12	1.00000	6.06456e-12	1.00000
rad38	7.69934e-13	1.00000	7.69954e-13	1.00000
rad24	5.69655e-13	1.00000	5.69669e-13	1.00000
rad33	2.39659e-13	1.00000	2.39665e-13	1.00000
rad15	1.80124e-13	1.00000	1.80129e-13	1.00000
rad28	1.17984e-13	1.00000	1.17987e-13	1.00000
rad25	2.85412e-14	1.00000	2.85420e-14	1.00000
rad26	1.40251e-15	1.00000	1.40255e-15	1.00000
PhCCH+CH3	2.00622e-16	1.00000	2.00628e-16	1.00000
PhCHCCH2+H	1.17431e-16	1.00000	1.17434e-16	1.00000
rad27	2.82100e-17	1.00000	2.82107e-17	1.00000
PhCCCH3+H	2.61374e-17	1.00000	2.61381e-17	1.00000
rad14	2.54331e-17	1.00000	2.54337e-17	1.00000
rad46	1.81212e-18	1.00000	1.81217e-18	1.00000
rad9	1.95905e-19	1.00000	1.95910e-19	1.00000
rad8	6.58889e-20	1.00000	6.58906e-20	1.00000
rad31	4.66162e-20	1.00000	4.66174e-20	1.00000
Ph+MeAc	1.32941e-20	1.00000	1.32945e-20	1.00000
Ph+Allene	5.03128e-22	1.00000	5.03141e-22	1.00000
PAH7+H	4.39595e-22	1.00000	4.39606e-22	1.00000

rad12	6.34358e-23	1.00000	6.34374e-23	1.00000
rad60syn	5.22756e-23	1.00000	5.22769e-23	1.00000
rad39	2.81364e-23	1.00000	2.81371e-23	1.00000
rad60anti	3.99845e-24	1.00000	3.99855e-24	1.00000
PhCH2CCH+H	2.52726e-26	1.00000	2.52733e-26	1.00000
rad37	2.65552e-27	1.00000	2.65559e-27	1.00000
rad5	6.92531e-30	1.00000	6.92549e-30	1.00000
PAH3+H	9.51959e-34	1.00000	9.51984e-34	1.00000
rad50	8.61032e-34	1.00000	8.61055e-34	1.00000
rad59	4.58199e-34	1.00000	4.58211e-34	1.00000
rad19syn	8.51932e-39	1.00000	8.51954e-39	1.00000
rad54	2.46249e-42	1.00000	2.46255e-42	1.00000
PAH10+CH3	1.89031e-42	1.00000	1.89035e-42	1.00000
rad52	6.28609e-43	1.00000	6.28625e-43	1.00000
rad43	4.34041e-43	1.00000	4.34052e-43	1.00000
rad62	6.99552e-45	1.00000	6.99570e-45	1.00000
rad51	7.10516e-48	1.00000	7.10534e-48	1.00000
rad70	3.29330e-49	1.00000	3.29339e-49	1.00000
PhcycC3H3_A+H	1.94843e-49	1.00000	1.94848e-49	1.00000
rad55	9.86339e-50	1.00000	9.86364e-50	1.00000
rad65	7.08026e-52	1.00000	7.08044e-52	1.00000
rad58	8.45123e-53	1.00000	8.45144e-53	1.00000
PAH1+H	1.37753e-53	1.00000	1.37757e-53	1.00000
rad34	1.51352e-55	1.00000	1.51356e-55	1.00000
rad42	4.69197e-59	1.00000	4.69209e-59	1.00000
rad41	9.97112e-60	1.00000	9.97138e-60	1.00000
rad47	8.90917e-61	1.00000	8.90940e-61	1.00000

0.100000000 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.44756e-33 (1.00)	1.44751e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.996731	0.996731	0.996765	0.996765
rad23	0.00285566	0.999587	0.00285576	0.999621
rad6	0.000329028	0.999916	0.000329039	0.999950
rad45	4.48873e-05	0.999961	4.48888e-05	0.999995
Benzyl+C2H2	3.37157e-05	0.999994	0.00000	0.999995
rad36	2.78298e-06	0.999997	2.78308e-06	0.999997
rad22	1.80897e-06	0.999999	1.80903e-06	0.999999
rad11	6.89159e-07	1.000000	6.89182e-07	1.000000
rad7	3.61712e-08	1.000000	3.61724e-08	1.000000
rad2	2.22083e-10	1.000000	2.22091e-10	1.000000
rad3	1.52353e-10	1.000000	1.52359e-10	1.000000
rad13	1.39157e-10	1.000000	1.39162e-10	1.000000
rad20	9.00194e-11	1.000000	9.00224e-11	1.000000
rad4	7.77170e-11	1.000000	7.77196e-11	1.000000
rad21	5.68501e-11	1.000000	5.68520e-11	1.000000
rad30	4.53328e-11	1.000000	4.53344e-11	1.000000
rad35	2.82555e-11	1.000000	2.82564e-11	1.000000
PAH9+H	2.12758e-11	1.000000	2.12765e-11	1.000000
rad1	1.45241e-11	1.000000	1.45246e-11	1.000000
rad10	1.15237e-11	1.000000	1.15240e-11	1.000000
rad18	7.70010e-12	1.000000	7.70036e-12	1.000000
rad38	1.48006e-12	1.000000	1.48011e-12	1.000000
rad15	6.02698e-13	1.000000	6.02718e-13	1.000000
rad24	4.50391e-13	1.000000	4.50406e-13	1.000000
rad28	3.46987e-13	1.000000	3.46999e-13	1.000000
rad33	2.58403e-13	1.000000	2.58411e-13	1.000000
rad25	6.88229e-14	1.000000	6.88252e-14	1.000000
rad26	6.23035e-15	1.000000	6.23056e-15	1.000000
PhCCH+CH3	1.32774e-15	1.000000	1.32778e-15	1.000000
PhCHCCH2+H	8.12237e-16	1.000000	8.12265e-16	1.000000
PhCCH3+H	2.04238e-16	1.000000	2.04245e-16	1.000000
rad14	8.02131e-17	1.000000	8.02158e-17	1.000000
rad27	6.39095e-17	1.000000	6.39116e-17	1.000000
rad46	1.04568e-17	1.000000	1.04571e-17	1.000000
rad9	2.14533e-18	1.000000	2.14541e-18	1.000000
rad8	7.13672e-19	1.000000	7.13696e-19	1.000000
Ph+MeAc	2.28358e-19	1.000000	2.28366e-19	1.000000
rad31	6.42325e-20	1.000000	6.42346e-20	1.000000
Ph+Allene	1.14366e-20	1.000000	1.14369e-20	1.000000
PAH7+H	6.92288e-21	1.000000	6.92311e-21	1.000000
rad12	1.07478e-21	1.000000	1.07482e-21	1.000000
rad60syn	1.00093e-21	1.000000	1.00096e-21	1.000000
rad39	5.45660e-22	1.000000	5.45678e-22	1.000000
rad60anti	9.29974e-23	1.000000	9.30006e-23	1.000000

PhCH2CCH+H	1.73880e-24	1.000000	1.73886e-24	1.00000
rad37	1.68858e-25	1.000000	1.68864e-25	1.00000
rad5	7.17121e-28	1.000000	7.17146e-28	1.00000
PAH3+H	1.15088e-28	1.000000	1.15092e-28	1.00000
rad59	5.75416e-29	1.000000	5.75436e-29	1.00000
rad50	7.53112e-30	1.000000	7.53138e-30	1.00000
rad19syn	1.40237e-36	1.000000	1.40241e-36	1.00000
rad54	4.18214e-40	1.000000	4.18228e-40	1.00000
PAH10+CH3	3.33419e-40	1.000000	3.33430e-40	1.00000
rad52	1.21659e-40	1.000000	1.21663e-40	1.00000
rad43	7.66571e-41	1.000000	7.66597e-41	1.00000
rad62	1.23458e-42	1.000000	1.23462e-42	1.00000
rad51	1.30723e-45	1.000000	1.30727e-45	1.00000
rad70	5.84936e-47	1.000000	5.84956e-47	1.00000
PhcycC3H3_A+H	3.47133e-47	1.000000	3.47144e-47	1.00000
rad55	1.75558e-47	1.000000	1.75564e-47	1.00000
rad65	1.31311e-49	1.000000	1.31315e-49	1.00000
rad58	1.50888e-50	1.000000	1.50893e-50	1.00000
PAH1+H	2.52924e-51	1.000000	2.52933e-51	1.00000
rad34	2.80464e-53	1.000000	2.80473e-53	1.00000
rad42	1.14692e-56	1.000000	1.14696e-56	1.00000
rad41	3.46744e-57	1.000000	3.46755e-57	1.00000
rad47	1.61627e-58	1.000000	1.61632e-58	1.00000

0.100000000 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27722e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997309	0.997309	0.997352	0.997352
rad23	0.00225399	0.999563	0.00225408	0.999606
rad6	0.000354367	0.999917	0.000354383	0.999960
Benzyl+C2H2	4.38357e-05	0.999961	0.000000	0.999960
rad45	3.51174e-05	0.999996	3.51189e-05	0.999996
rad36	2.17856e-06	0.999998	2.17866e-06	0.999998
rad22	1.40901e-06	1.000000	1.40907e-06	0.999999
rad11	5.46370e-07	1.000000	5.46394e-07	1.000000
rad7	3.86877e-08	1.000000	3.86894e-08	1.000000
rad2	3.94719e-10	1.000000	3.94737e-10	1.000000
rad3	1.92234e-10	1.000000	1.92242e-10	1.000000
rad13	1.50059e-10	1.000000	1.50065e-10	1.000000
rad4	9.81978e-11	1.000000	9.82021e-11	1.000000
rad30	9.41352e-11	1.000000	9.41393e-11	1.000000
rad20	7.84162e-11	1.000000	7.84197e-11	1.000000
rad21	4.95625e-11	1.000000	4.95646e-11	1.000000
rad35	3.95955e-11	1.000000	3.95972e-11	1.000000
PAH9+H	3.27489e-11	1.000000	3.27504e-11	1.000000
rad1	2.59474e-11	1.000000	2.59486e-11	1.000000
rad10	2.12463e-11	1.000000	2.12472e-11	1.000000
rad18	6.18130e-12	1.000000	6.18157e-12	1.000000
rad38	2.68952e-12	1.000000	2.68964e-12	1.000000
rad15	1.72882e-12	1.000000	1.72890e-12	1.000000
rad28	9.46188e-13	1.000000	9.46230e-13	1.000000
rad24	3.56948e-13	1.000000	3.56964e-13	1.000000
rad33	2.79513e-13	1.000000	2.79525e-13	1.000000
rad25	1.43409e-13	1.000000	1.43415e-13	1.000000
rad26	2.51728e-14	1.000000	2.51740e-14	1.000000
PhCCH+CH3	7.42611e-15	1.000000	7.42644e-15	1.000000
PhCHCCH2+H	4.70593e-15	1.000000	4.70614e-15	1.000000
PhCCCH3+H	1.32872e-15	1.000000	1.32878e-15	1.000000
rad14	2.17434e-16	1.000000	2.17444e-16	1.000000
rad27	1.35038e-16	1.000000	1.35044e-16	1.000000
rad46	4.83581e-17	1.000000	4.83602e-17	1.000000
rad9	1.73250e-17	1.000000	1.73258e-17	1.000000
rad8	6.19595e-18	1.000000	6.19622e-18	1.000000
Ph+MeAc	2.89512e-18	1.000000	2.89525e-18	1.000000
Ph+Allene	1.75367e-19	1.000000	1.75374e-19	1.000000
rad31	8.79307e-20	1.000000	8.79346e-20	1.000000
PAH7+H	8.32611e-20	1.000000	8.32648e-20	1.000000
rad12	1.36960e-20	1.000000	1.36966e-20	1.000000
rad60syn	1.28892e-20	1.000000	1.28898e-20	1.000000
rad39	7.82502e-21	1.000000	7.82537e-21	1.000000
rad60anti	1.41455e-21	1.000000	1.41461e-21	1.000000
PhCH2CCH+H	5.74511e-23	1.000000	5.74536e-23	1.000000
rad37	5.49036e-24	1.000000	5.49060e-24	1.000000
rad5	3.43704e-26	1.000000	3.43719e-26	1.000000
PAH3+H	1.80908e-26	1.000000	1.80916e-26	1.000000

rad59	8.15438e-27	1.00000	8.15474e-27	1.000000
rad50	5.41962e-28	1.00000	5.41986e-28	1.000000
rad19syn	4.04972e-34	1.00000	4.04990e-34	1.000000
rad54	1.24866e-37	1.00000	1.24871e-37	1.000000
PAH10+CH3	1.02026e-37	1.00000	1.02030e-37	1.000000
rad52	4.64723e-38	1.00000	4.64743e-38	1.000000
rad43	2.35183e-38	1.00000	2.35193e-38	1.000000
rad62	3.83541e-40	1.00000	3.83557e-40	1.000000
rad51	4.73253e-43	1.00000	4.73274e-43	1.000000
rad70	1.84297e-44	1.00000	1.84305e-44	1.000000
PhcycC3H3_A+H	1.09831e-44	1.00000	1.09836e-44	1.000000
rad55	5.54706e-45	1.00000	5.54730e-45	1.000000
rad65	4.90355e-47	1.00000	4.90376e-47	1.000000
rad58	4.78904e-48	1.00000	4.78925e-48	1.000000
PAH1+H	8.38627e-49	1.00000	8.38664e-49	1.000000
rad34	9.46231e-51	1.00000	9.46273e-51	1.000000
rad42	6.64588e-54	1.00000	6.64617e-54	1.000000
rad41	2.86250e-54	1.00000	2.86263e-54	1.000000
rad47	6.72742e-56	1.00000	6.72771e-56	1.000000

0.100000000 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01140e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997749	0.997749	0.997805	0.997805
rad23	0.00178103	0.999530	0.00178113	0.999586
rad6	0.000382776	0.999913	0.000382798	0.999969
Benzyl+C2H2	5.67850e-05	0.999970	0.000000	0.999969
rad45	2.75298e-05	0.999997	2.75313e-05	0.999996
rad36	1.70932e-06	0.999999	1.70942e-06	0.999998
rad22	1.10049e-06	1.000000	1.10055e-06	0.999999
rad11	4.36180e-07	1.000000	4.36204e-07	1.000000
rad7	4.15251e-08	1.000000	4.15274e-08	1.000000
rad2	6.89311e-10	1.000000	6.89350e-10	1.000000
rad3	2.39070e-10	1.000000	2.39084e-10	1.000000
rad30	1.80522e-10	1.000000	1.80532e-10	1.000000
rad13	1.62341e-10	1.000000	1.62350e-10	1.000000
rad4	1.22310e-10	1.000000	1.22317e-10	1.000000
rad20	6.87263e-11	1.000000	6.87302e-11	1.000000
rad35	5.50579e-11	1.000000	5.50610e-11	1.000000
PAH9+H	4.93743e-11	1.000000	4.93771e-11	1.000000
rad1	4.55665e-11	1.000000	4.55691e-11	1.000000
rad21	4.34785e-11	1.000000	4.34810e-11	1.000000
rad10	3.81241e-11	1.000000	3.81263e-11	1.000000
rad18	5.01589e-12	1.000000	5.01617e-12	1.000000
rad38	4.67477e-12	1.000000	4.67504e-12	1.000000
rad15	4.38373e-12	1.000000	4.38397e-12	1.000000
rad28	2.42428e-12	1.000000	2.42442e-12	1.000000
rad33	3.03299e-13	1.000000	3.03316e-13	1.000000
rad24	2.83424e-13	1.000000	2.83440e-13	1.000000
rad25	2.65374e-13	1.000000	2.65389e-13	1.000000
rad26	9.30271e-14	1.000000	9.30324e-14	1.000000
PhCCH+CH3	3.60699e-14	1.000000	3.60720e-14	1.000000
PhCHCCH2+H	2.33802e-14	1.000000	2.33816e-14	1.000000
PhCCCH3+H	7.36535e-15	1.000000	7.36576e-15	1.000000
rad14	5.19574e-16	1.000000	5.19604e-16	1.000000
rad27	2.69329e-16	1.000000	2.69344e-16	1.000000
rad46	1.87059e-16	1.000000	1.87070e-16	1.000000
rad9	1.09403e-16	1.000000	1.09409e-16	1.000000
rad8	4.41612e-17	1.000000	4.41637e-17	1.000000
Ph+MeAc	2.82621e-17	1.000000	2.82638e-17	1.000000
Ph+Allene	1.95282e-18	1.000000	1.95294e-18	1.000000
PAH7+H	7.95792e-19	1.000000	7.95837e-19	1.000000
rad12	1.35957e-19	1.000000	1.35964e-19	1.000000
rad60syn	1.20405e-19	1.000000	1.20412e-19	1.000000
rad31	1.19986e-19	1.000000	1.19992e-19	1.000000
rad39	8.65995e-20	1.000000	8.66044e-20	1.000000
rad60anti	1.52674e-20	1.000000	1.52683e-20	1.000000
PhCH2CCH+H	1.16245e-21	1.000000	1.16252e-21	1.000000
rad37	1.11676e-22	1.000000	1.11682e-22	1.000000
rad5	8.61310e-25	1.000000	8.61359e-25	1.000000
PAH3+H	5.42506e-25	1.000000	5.42536e-25	1.000000
rad59	2.29066e-25	1.000000	2.29079e-25	1.000000
rad50	1.42932e-26	1.000000	1.42940e-26	1.000000
rad19syn	9.70721e-32	1.000000	9.70776e-32	1.000000
rad54	3.09887e-35	1.000000	3.09905e-35	1.000000

PAH10+CH3	2.52007e-35	1.00000	2.52022e-35	1.000000
rad52	1.50731e-35	1.00000	1.50739e-35	1.000000
rad43	5.82704e-36	1.00000	5.82737e-36	1.000000
rad62	9.80140e-38	1.00000	9.80196e-38	1.000000
rad51	1.49763e-40	1.00000	1.49771e-40	1.000000
rad70	4.86002e-42	1.00000	4.86029e-42	1.000000
PhcycC3H3_A+H	2.91142e-42	1.00000	2.91158e-42	1.000000
rad55	1.46785e-42	1.00000	1.46793e-42	1.000000
rad65	1.73181e-44	1.00000	1.73191e-44	1.000000
rad58	1.27502e-45	1.00000	1.27510e-45	1.000000
PAH1+H	2.37823e-46	1.00000	2.37837e-46	1.000000
rad34	2.76818e-48	1.00000	2.76834e-48	1.000000
rad42	3.86116e-51	1.00000	3.86137e-51	1.000000
rad41	2.04422e-51	1.00000	2.04434e-51	1.000000
rad47	3.19817e-53	1.00000	3.19836e-53	1.000000

0.100000000 Pa, 170.000000 K

Rate constant	True (fraction)		Effective (fraction)	
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Total	5.54821e-30	(1.00)	5.54780e-30	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.998080	0.998080	0.998153	0.998153
rad23	0.00140836	0.999488	0.00140846	0.999561
rad6	0.000414605	0.999903	0.000414636	0.999976
Benzyl+C2H2	7.32881e-05	0.999976	0.000000	0.999976
rad45	2.16157e-05	0.999998	2.16173e-05	0.999998
rad36	1.34364e-06	0.999999	1.34374e-06	0.999999
rad22	8.61295e-07	1.00000	8.61358e-07	1.000000
rad11	3.50490e-07	1.00000	3.50515e-07	1.00000
rad7	4.47171e-08	1.00000	4.47204e-08	1.00000
rad2	1.18319e-09	1.00000	1.18328e-09	1.00000
rad30	3.24815e-10	1.00000	3.24839e-10	1.00000
rad3	2.93520e-10	1.00000	2.93542e-10	1.00000
rad13	1.76167e-10	1.00000	1.76180e-10	1.00000
rad4	1.50419e-10	1.00000	1.50430e-10	1.00000
rad1	7.86905e-11	1.00000	7.86963e-11	1.00000
rad35	7.60771e-11	1.00000	7.60827e-11	1.00000
PAH9+H	7.32333e-11	1.00000	7.32387e-11	1.00000
rad10	6.67445e-11	1.00000	6.67494e-11	1.00000
rad20	6.05435e-11	1.00000	6.05479e-11	1.00000
rad21	3.83423e-11	1.00000	3.83451e-11	1.00000
rad15	1.00573e-11	1.00000	1.00580e-11	1.00000
rad38	7.83983e-12	1.00000	7.84041e-12	1.00000
rad28	5.89476e-12	1.00000	5.89520e-12	1.00000
rad18	4.10706e-12	1.00000	4.10736e-12	1.00000
rad25	4.45284e-13	1.00000	4.45317e-13	1.00000
rad33	3.30092e-13	1.00000	3.30117e-13	1.00000
rad26	3.15791e-13	1.00000	3.15815e-13	1.00000
rad24	2.25379e-13	1.00000	2.25395e-13	1.00000
PhCCH+CH3	1.55412e-13	1.00000	1.55423e-13	1.00000
PhCHCCH2+H	1.01790e-13	1.00000	1.01798e-13	1.00000
PhCCCH3+H	3.54879e-14	1.00000	3.54905e-14	1.00000
rad14	1.11758e-15	1.00000	1.11767e-15	1.00000
rad46	6.25481e-16	1.00000	6.25527e-16	1.00000
rad9	5.65275e-16	1.00000	5.65316e-16	1.00000
rad27	5.11812e-16	1.00000	5.11849e-16	1.00000
rad8	2.63823e-16	1.00000	2.63843e-16	1.00000
Ph+MeAc	2.20682e-16	1.00000	2.20698e-16	1.00000
Ph+Allene	1.67291e-17	1.00000	1.67303e-17	1.00000
PAH7+H	6.24666e-18	1.00000	6.24712e-18	1.00000
rad12	1.08588e-18	1.00000	1.08596e-18	1.00000
rad60syn	8.64426e-19	1.00000	8.64490e-19	1.00000
rad39	7.67749e-19	1.00000	7.67805e-19	1.00000
rad31	1.63818e-19	1.00000	1.63830e-19	1.00000
rad60anti	1.24361e-19	1.00000	1.24370e-19	1.00000
PhCH2CCH+H	1.66868e-20	1.00000	1.66881e-20	1.00000
rad37	1.61008e-21	1.00000	1.61019e-21	1.00000
rad5	1.46395e-23	1.00000	1.46406e-23	1.00000
PAH3+H	9.96101e-24	1.00000	9.96174e-24	1.00000
rad59	4.05667e-24	1.00000	4.05697e-24	1.00000
rad50	2.44540e-25	1.00000	2.44558e-25	1.00000
rad19syn	2.39471e-29	1.00000	2.39488e-29	1.00000
rad52	2.27938e-31	1.00000	2.27954e-31	1.00000
rad54	6.33077e-33	1.00000	6.33124e-33	1.00000
PAH10+CH3	4.94257e-33	1.00000	4.94293e-33	1.00000
rad43	1.14621e-33	1.00000	1.14630e-33	1.00000
rad62	2.02070e-35	1.00000	2.02084e-35	1.00000

rad51	3.62627e-38	1.00000	3.62654e-38	1.00000
rad70	1.05870e-39	1.00000	1.05878e-39	1.00000
PhcycC3H3_A+H	6.37810e-40	1.00000	6.37857e-40	1.00000
rad55	3.20942e-40	1.00000	3.20965e-40	1.00000
rad65	4.93012e-42	1.00000	4.93048e-42	1.00000
rad58	2.80780e-43	1.00000	2.80801e-43	1.00000
PAH1+H	5.63849e-44	1.00000	5.63890e-44	1.00000
rad34	6.83493e-46	1.00000	6.83543e-46	1.00000
rad42	1.75006e-48	1.00000	1.75019e-48	1.00000
rad41	1.02733e-48	1.00000	1.02740e-48	1.00000
rad47	1.28871e-50	1.00000	1.28881e-50	1.00000

0.100000000 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.69315e-29 (1.00)	4.69271e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998322	0.998322	0.998416	0.998416
rad23	0.00111420	0.999436	0.00111431	0.999530
rad6	0.000450227	0.999886	0.000450270	0.999981
Benzyl+C2H2	9.42253e-05	0.999981	0.00000	0.999981
rad45	1.69931e-05	0.999998	1.69947e-05	0.999998
rad36	1.05783e-06	0.999999	1.05793e-06	0.999999
rad22	6.75133e-07	0.999999	6.75197e-07	0.999999
rad11	2.83460e-07	1.000000	2.83487e-07	1.000000
rad7	4.82993e-08	1.000000	4.83038e-08	1.000000
rad2	1.99613e-09	1.000000	1.99632e-09	1.000000
rad30	5.55018e-10	1.000000	5.55071e-10	1.000000
rad3	3.56438e-10	1.000000	3.56471e-10	1.000000
rad13	1.91710e-10	1.000000	1.91728e-10	1.000000
rad4	1.82997e-10	1.000000	1.83015e-10	1.000000
rad1	1.33635e-10	1.000000	1.33647e-10	1.000000
rad10	1.14200e-10	1.000000	1.14211e-10	1.000000
PAH9+H	1.07184e-10	1.000000	1.07194e-10	1.000000
rad35	1.04540e-10	1.000000	1.04550e-10	1.000000
rad20	5.35696e-11	1.000000	5.35746e-11	1.000000
rad21	3.39661e-11	1.000000	3.39693e-11	1.000000
rad15	2.12541e-11	1.000000	2.12561e-11	1.000000
rad28	1.37019e-11	1.000000	1.37032e-11	1.000000
rad38	1.27672e-11	1.000000	1.27684e-11	1.000000
rad18	3.38857e-12	1.000000	3.38889e-12	1.000000
rad26	9.88157e-13	1.000000	9.88250e-13	1.000000
rad25	6.88581e-13	1.000000	6.88646e-13	1.000000
PhCCH+CH3	6.03667e-13	1.000000	6.03724e-13	1.000000
PhCHCCH2+H	3.95523e-13	1.000000	3.95561e-13	1.000000
rad33	3.60250e-13	1.000000	3.60284e-13	1.000000
rad24	1.79436e-13	1.000000	1.79453e-13	1.000000
PhCCCH3+H	1.51138e-13	1.000000	1.51152e-13	1.000000
rad9	2.47644e-15	1.000000	2.47667e-15	1.000000
rad14	2.20115e-15	1.000000	2.20136e-15	1.000000
rad46	1.85472e-15	1.000000	1.85490e-15	1.000000
Ph+MeAc	1.42314e-15	1.000000	1.42327e-15	1.000000
rad8	1.34608e-15	1.000000	1.34621e-15	1.000000
rad27	9.33248e-16	1.000000	9.33336e-16	1.000000
Ph+Allene	1.15309e-16	1.000000	1.15319e-16	1.000000
PAH7+H	4.13244e-17	1.000000	4.13283e-17	1.000000
rad12	7.17432e-18	1.000000	7.17500e-18	1.000000
rad39	5.61803e-18	1.000000	5.61856e-18	1.000000
rad60syn	4.98789e-18	1.000000	4.98836e-18	1.000000
rad60anti	8.01849e-19	1.000000	8.01924e-19	1.000000
rad31	2.24667e-19	1.000000	2.24688e-19	1.000000
PhCH2CCH+H	1.81501e-19	1.000000	1.81518e-19	1.000000
rad37	1.74548e-20	1.000000	1.74564e-20	1.000000
rad5	1.84186e-22	1.000000	1.84203e-22	1.000000
PAH3+H	1.30922e-22	1.000000	1.30934e-22	1.000000
rad59	5.16930e-23	1.000000	5.16979e-23	1.000000
rad50	3.04556e-24	1.000000	3.04585e-24	1.000000
rad19syn	2.09753e-27	1.000000	2.09773e-27	1.000000
rad52	1.36316e-29	1.000000	1.36328e-29	1.000000
rad54	1.49799e-30	1.000000	1.49813e-30	1.000000
PAH10+CH3	1.07280e-30	1.000000	1.07290e-30	1.000000
rad43	2.49932e-31	1.000000	2.49955e-31	1.000000
rad62	4.68145e-33	1.000000	4.68189e-33	1.000000
rad51	8.76300e-36	1.000000	8.76383e-36	1.000000
rad70	2.66690e-37	1.000000	2.66715e-37	1.000000
PhcycC3H3_A+H	1.61424e-37	1.000000	1.61439e-37	1.000000
rad55	8.11034e-38	1.000000	8.11110e-38	1.000000

rad65	1.30498e-39	1.000000	1.30510e-39	1.000000
rad58	7.13609e-41	1.000000	7.13677e-41	1.000000
PAH1+H	1.49658e-41	1.000000	1.49672e-41	1.000000
rad34	1.84564e-43	1.000000	1.84581e-43	1.000000
rad42	6.32646e-46	1.000000	6.32705e-46	1.000000
rad41	3.93828e-46	1.000000	3.93865e-46	1.000000
rad47	4.41824e-48	1.000000	4.41866e-48	1.000000

0.100000000 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.16530e-28 (1.00)	3.16492e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998493	0.998493	0.998613	0.998613
rad23	0.000881735	0.999375	0.000881841	0.999495
rad6	0.000490029	0.999865	0.000490088	0.999985
Benzyl+C2H2	0.000120658	0.999985	0.00000	0.999985
rad45	1.33723e-05	0.999999	1.33739e-05	0.999998
rad36	8.33921e-07	1.000000	8.34022e-07	0.999999
rad22	5.29829e-07	1.000000	5.29893e-07	1.000000
rad11	2.30809e-07	1.000000	2.30836e-07	1.000000
rad7	5.23090e-08	1.000000	5.23153e-08	1.000000
rad2	3.30824e-09	1.000000	3.30864e-09	1.000000
rad30	9.08980e-10	1.000000	9.09090e-10	1.000000
rad3	4.29009e-10	1.000000	4.29061e-10	1.000000
rad1	2.23068e-10	1.000000	2.23094e-10	1.000000
rad4	2.20697e-10	1.000000	2.20724e-10	1.000000
rad13	2.09156e-10	1.000000	2.09181e-10	1.000000
rad10	1.91141e-10	1.000000	1.91164e-10	1.000000
PAH9+H	1.55114e-10	1.000000	1.55133e-10	1.000000
rad35	1.42907e-10	1.000000	1.42924e-10	1.000000
rad20	4.75806e-11	1.000000	4.75863e-11	1.000000
rad15	4.19565e-11	1.000000	4.19615e-11	1.000000
rad28	3.06006e-11	1.000000	3.06043e-11	1.000000
rad21	3.02087e-11	1.000000	3.02123e-11	1.000000
rad38	2.02859e-11	1.000000	2.02883e-11	1.000000
rad26	2.85964e-12	1.000000	2.85998e-12	1.000000
rad18	2.81397e-12	1.000000	2.81431e-12	1.000000
PhCCH+CH3	2.14016e-12	1.000000	2.14042e-12	1.000000
PhCHCCH2+H	1.39223e-12	1.000000	1.39240e-12	1.000000
rad25	9.93953e-13	1.000000	9.94073e-13	1.000000
PhCCCH3+H	5.77016e-13	1.000000	5.77085e-13	1.000000
rad33	3.94156e-13	1.000000	3.94203e-13	1.000000
rad24	1.43001e-13	1.000000	1.43018e-13	1.000000
rad9	9.46286e-15	1.000000	9.46400e-15	1.000000
Ph+MeAc	7.78289e-15	1.000000	7.78383e-15	1.000000
rad8	5.96811e-15	1.000000	5.96883e-15	1.000000
rad46	4.97620e-15	1.000000	4.97680e-15	1.000000
rad14	4.02557e-15	1.000000	4.02605e-15	1.000000
rad27	1.64120e-15	1.000000	1.64140e-15	1.000000
Ph+Allene	6.62612e-16	1.000000	6.62692e-16	1.000000
PAH7+H	2.35158e-16	1.000000	2.35187e-16	1.000000
rad12	4.01431e-17	1.000000	4.01480e-17	1.000000
rad39	3.47628e-17	1.000000	3.47670e-17	1.000000
rad60syn	2.39627e-17	1.000000	2.39656e-17	1.000000
rad60anti	4.24937e-18	1.000000	4.24989e-18	1.000000
PhCH2CCH+H	1.56622e-18	1.000000	1.56641e-18	1.000000
rad31	3.10600e-19	1.000000	3.10638e-19	1.000000
rad37	1.48583e-19	1.000000	1.48601e-19	1.000000
rad5	1.80604e-21	1.000000	1.80626e-21	1.000000
PAH3+H	1.31425e-21	1.000000	1.31441e-21	1.000000
rad59	5.03723e-22	1.000000	5.03784e-22	1.000000
rad50	2.92858e-23	1.000000	2.92894e-23	1.000000
rad19syn	6.00539e-26	1.000000	6.00611e-26	1.000000
rad54	3.18567e-28	1.000000	3.18606e-28	1.000000
rad52	3.09964e-28	1.000000	3.10001e-28	1.000000
PAH10+CH3	2.10643e-28	1.000000	2.10668e-28	1.000000
rad43	5.24358e-29	1.000000	5.24421e-29	1.000000
rad62	2.90903e-30	1.000000	2.90938e-30	1.000000
rad51	2.54706e-31	1.000000	2.54737e-31	1.000000
rad70	1.31715e-34	1.000000	1.31731e-34	1.000000
PhcycC3H3_A+H	8.00234e-35	1.000000	8.00331e-35	1.000000
rad55	4.01639e-35	1.000000	4.01687e-35	1.000000
rad65	5.04904e-37	1.000000	5.04964e-37	1.000000
rad58	3.54543e-38	1.000000	3.54586e-38	1.000000
PAH1+H	7.41440e-39	1.000000	7.41529e-39	1.000000
rad34	8.94971e-41	1.000000	8.95079e-41	1.000000

rad42	2.37574e-43	1.00000	2.37603e-43	1.000000
rad41	1.50669e-43	1.00000	1.50687e-43	1.000000
rad47	1.68323e-45	1.00000	1.68344e-45	1.000000

0.100000000 Pa, 200.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.76115e-27 (1.00)		1.76088e-27 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.998602	0.998602	0.998756	0.998756
rad23	0.000697884	0.999300	0.000697991	0.999454
rad6	0.000534415	0.999834	0.000534497	0.999988
Benzyl+C2H2	0.000153855	0.999988	0.00000	0.999988
rad45	1.05316e-05	0.999999	1.05332e-05	0.999999
rad36	6.58188e-07	0.999999	6.58289e-07	1.000000
rad22	4.16173e-07	1.000000	4.16237e-07	1.000000
rad11	1.89349e-07	1.000000	1.89378e-07	1.000000
rad7	5.67853e-08	1.000000	5.67940e-08	1.000000
rad2	5.38154e-09	1.000000	5.38237e-09	1.000000
rad30	1.43705e-09	1.000000	1.43727e-09	1.000000
rad3	5.12903e-10	1.000000	5.12982e-10	1.000000
rad1	3.65697e-10	1.000000	3.65753e-10	1.000000
rad10	3.13033e-10	1.000000	3.13081e-10	1.000000
rad4	2.64432e-10	1.000000	2.64473e-10	1.000000
rad13	2.28700e-10	1.000000	2.28735e-10	1.000000
PAH9+H	2.22261e-10	1.000000	2.22295e-10	1.000000
rad35	1.94364e-10	1.000000	1.94394e-10	1.000000
rad15	7.82224e-11	1.000000	7.82344e-11	1.000000
rad28	6.58812e-11	1.000000	6.58913e-11	1.000000
rad20	4.24051e-11	1.000000	4.24116e-11	1.000000
rad38	3.15610e-11	1.000000	3.15659e-11	1.000000
rad21	2.69623e-11	1.000000	2.69664e-11	1.000000
rad26	7.67939e-12	1.000000	7.68057e-12	1.000000
PhCCH+CH3	6.99208e-12	1.000000	6.99316e-12	1.000000
PhCHCCH2+H	4.49257e-12	1.000000	4.49326e-12	1.000000
rad18	2.34989e-12	1.000000	2.35025e-12	1.000000
PhCCCH3+H	1.99841e-12	1.000000	1.99871e-12	1.000000
rad25	1.35306e-12	1.000000	1.35327e-12	1.000000
rad33	4.32219e-13	1.000000	4.32286e-13	1.000000
rad24	1.14064e-13	1.000000	1.14081e-13	1.000000
Ph+MeAc	3.68896e-14	1.000000	3.68953e-14	1.000000
rad9	3.22630e-14	1.000000	3.22680e-14	1.000000
rad8	2.33613e-14	1.000000	2.33649e-14	1.000000
rad46	1.22742e-14	1.000000	1.22761e-14	1.000000
rad14	6.91508e-15	1.000000	6.91614e-15	1.000000
Ph+Allene	3.26543e-15	1.000000	3.26594e-15	1.000000
rad27	2.79354e-15	1.000000	2.79397e-15	1.000000
PAH7+H	1.17022e-15	1.000000	1.17040e-15	1.000000
rad12	1.94051e-16	1.000000	1.94081e-16	1.000000
rad39	1.85512e-16	1.000000	1.85541e-16	1.000000
rad60syn	9.85868e-17	1.000000	9.86020e-17	1.000000
rad60anti	1.90733e-17	1.000000	1.90762e-17	1.000000
PhCH2CCH+H	1.10903e-17	1.000000	1.10920e-17	1.000000
rad37	1.02771e-18	1.000000	1.02787e-18	1.000000
rad31	4.34013e-19	1.000000	4.34080e-19	1.000000
rad5	1.42839e-20	1.000000	1.42861e-20	1.000000
PAH3+H	1.04907e-20	1.000000	1.04923e-20	1.000000
rad59	3.90839e-21	1.000000	3.90899e-21	1.000000
rad50	2.25992e-22	1.000000	2.26027e-22	1.000000
rad19syn	9.57648e-25	1.000000	9.57796e-25	1.000000
rad54	8.57825e-27	1.000000	8.57957e-27	1.000000
PAH10+CH3	5.77870e-27	1.000000	5.77959e-27	1.000000
rad52	4.39922e-27	1.000000	4.39990e-27	1.000000
rad43	1.44124e-27	1.000000	1.44146e-27	1.000000
rad62	1.80873e-28	1.000000	1.80901e-28	1.000000
rad51	1.44641e-29	1.000000	1.44663e-29	1.000000
rad70	8.77757e-32	1.000000	8.77892e-32	1.000000
PhcycC3H3_A+H	5.35813e-32	1.000000	5.35895e-32	1.000000
rad55	2.68544e-32	1.000000	2.68586e-32	1.000000
rad65	1.67016e-32	1.000000	1.67042e-32	1.000000
rad58	2.38177e-35	1.000000	2.38213e-35	1.000000
PAH1+H	5.02653e-36	1.000000	5.02730e-36	1.000000
rad34	5.98962e-38	1.000000	5.99054e-38	1.000000
rad42	7.15706e-41	1.000000	7.15816e-41	1.000000
rad41	4.06319e-41	1.000000	4.06381e-41	1.000000
rad47	5.36873e-43	1.000000	5.36956e-43	1.000000

0.100000000 Pa, 210.000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 8.30956e-27 (1.00) 8.30794e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998659	0.998659	0.998854	0.998854
rad6	0.000583802	0.999243	0.000583916	0.999438
rad23	0.000552422	0.999795	0.000552530	0.999990
Benzyl+C2H2	0.000195323	0.999991	0.000000	0.999990
rad45	8.30037e-06	0.999999	8.30199e-06	0.999999
rad36	5.20073e-07	0.999999	5.20175e-07	0.999999
rad22	3.27135e-07	1.000000	3.27199e-07	1.000000
rad11	1.56678e-07	1.000000	1.56708e-07	1.000000
rad7	6.17684e-08	1.000000	6.17804e-08	1.000000
rad2	8.58354e-09	1.000000	8.58522e-09	1.000000
rad30	2.20529e-09	1.000000	2.20572e-09	1.000000
rad3	6.10433e-10	1.000000	6.10552e-10	1.000000
rad1	5.88222e-10	1.000000	5.88337e-10	1.000000
rad10	5.01543e-10	1.000000	5.01641e-10	1.000000
PAH9+H	3.15621e-10	1.000000	3.15682e-10	1.000000
rad4	3.15465e-10	1.000000	3.15527e-10	1.000000
rad35	2.63006e-10	1.000000	2.63057e-10	1.000000
rad13	2.50550e-10	1.000000	2.50599e-10	1.000000
rad15	1.38946e-10	1.000000	1.38973e-10	1.000000
rad28	1.37012e-10	1.000000	1.37039e-10	1.000000
rad38	4.82109e-11	1.000000	4.82203e-11	1.000000
rad20	3.79094e-11	1.000000	3.79168e-11	1.000000
rad21	2.41428e-11	1.000000	2.41475e-11	1.000000
PhCCH+CH3	2.12146e-11	1.000000	2.12187e-11	1.000000
rad26	1.92062e-11	1.000000	1.92100e-11	1.000000
PhCHCCH2+H	1.34178e-11	1.000000	1.34204e-11	1.000000
PhCCCH3+H	6.34248e-12	1.000000	6.34371e-12	1.000000
rad18	1.97192e-12	1.000000	1.97230e-12	1.000000
rad25	1.75153e-12	1.000000	1.75187e-12	1.000000
rad33	4.74876e-13	1.000000	4.74969e-13	1.000000
Ph+MeAc	1.54288e-13	1.000000	1.54318e-13	1.000000
rad9	9.99598e-14	1.000000	9.99793e-14	1.000000
rad24	9.10559e-14	1.000000	9.10737e-14	1.000000
rad8	8.18947e-14	1.000000	8.19107e-14	1.000000
rad46	2.81907e-14	1.000000	2.81962e-14	1.000000
Ph+Allene	1.41174e-14	1.000000	1.41202e-14	1.000000
rad14	1.12632e-14	1.000000	1.12654e-14	1.000000
PAH7+H	5.16277e-15	1.000000	5.16378e-15	1.000000
rad27	4.61360e-15	1.000000	4.61450e-15	1.000000
rad39	8.67947e-16	1.000000	8.68117e-16	1.000000
rad12	8.24201e-16	1.000000	8.24362e-16	1.000000
rad60syn	3.55340e-16	1.000000	3.55410e-16	1.000000
rad60anti	7.42923e-17	1.000000	7.43069e-17	1.000000
PhCH2CCH+H	6.62619e-17	1.000000	6.62749e-17	1.000000
rad37	5.94228e-18	1.000000	5.94344e-18	1.000000
rad31	6.13779e-19	1.000000	6.13898e-19	1.000000
rad5	9.38431e-20	1.000000	9.38615e-20	1.000000
PAH3+H	6.88861e-20	1.000000	6.88996e-20	1.000000
rad59	2.49720e-20	1.000000	2.49768e-20	1.000000
rad50	1.44580e-21	1.000000	1.44608e-21	1.000000
rad19syn	1.10707e-23	1.000000	1.10729e-23	1.000000
rad54	1.27673e-25	1.000000	1.27698e-25	1.000000
PAH10+CH3	8.62548e-26	1.000000	8.62717e-26	1.000000
rad52	4.69321e-26	1.000000	4.69413e-26	1.000000
rad43	2.13088e-26	1.000000	2.13129e-26	1.000000
rad62	3.45819e-27	1.000000	3.45887e-27	1.000000
rad51	2.74384e-28	1.000000	2.74437e-28	1.000000
rad70	3.41090e-29	1.000000	3.41156e-29	1.000000
PhcycC3H3_A+H	2.99035e-29	1.000000	2.99093e-29	1.000000
rad55	1.16815e-29	1.000000	1.16838e-29	1.000000
rad58	1.88040e-30	1.000000	1.88076e-30	1.000000
rad65	8.81817e-31	1.000000	8.81990e-31	1.000000
PAH1+H	4.74863e-33	1.000000	4.74956e-33	1.000000
rad34	5.69216e-35	1.000000	5.69327e-35	1.000000
rad42	2.83165e-38	1.000000	2.83221e-38	1.000000
rad41	9.63527e-39	1.000000	9.63715e-39	1.000000
rad47	2.63100e-40	1.000000	2.63151e-40	1.000000

0.100000000 Pa, 220.000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 3.40057e-26 (1.00) 3.39973e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998670	0.998670	0.998916	0.998916
rad6	0.000638617	0.999309	0.000638774	0.999555
rad23	0.000437319	0.999746	0.000437427	0.999992
Benzyl+C2H2	0.000246837	0.999993	0.00000	0.999992
rad45	6.54642e-06	0.999999	6.54804e-06	0.999999
rad36	4.11407e-07	1.000000	4.11509e-07	0.999999
rad22	2.57307e-07	1.000000	2.57371e-07	0.999999
rad11	1.30964e-07	1.000000	1.30996e-07	1.000000
rad7	6.72995e-08	1.000000	6.73161e-08	1.000000
rad2	1.34099e-08	1.000000	1.34132e-08	1.000000
rad30	3.29923e-09	1.000000	3.30004e-09	1.000000
rad1	9.27400e-10	1.000000	9.27629e-10	1.000000
rad10	7.85857e-10	1.000000	7.86051e-10	1.000000
rad3	7.24700e-10	1.000000	7.24879e-10	1.000000
PAH9+H	4.44455e-10	1.000000	4.44565e-10	1.000000
rad4	3.75491e-10	1.000000	3.75584e-10	1.000000
rad35	3.54057e-10	1.000000	3.54144e-10	1.000000
rad28	2.75549e-10	1.000000	2.75617e-10	1.000000
rad13	2.74922e-10	1.000000	2.74990e-10	1.000000
rad15	2.36805e-10	1.000000	2.36864e-10	1.000000
rad38	7.24572e-11	1.000000	7.24751e-11	1.000000
PhCCH+CH3	6.01593e-11	1.000000	6.01741e-11	1.000000
rad26	4.49073e-11	1.000000	4.49184e-11	1.000000
PhCHCCH2+H	3.73801e-11	1.000000	3.73893e-11	1.000000
rad20	3.39877e-11	1.000000	3.39961e-11	1.000000
rad21	2.16837e-11	1.000000	2.16890e-11	1.000000
PhCCCH3+H	1.86069e-11	1.000000	1.86115e-11	1.000000
rad25	2.17084e-12	1.000000	2.17137e-12	1.000000
rad18	1.66185e-12	1.000000	1.66226e-12	1.000000
Ph+MeAc	5.77926e-13	1.000000	5.78069e-13	1.000000
rad33	5.22589e-13	1.000000	5.22718e-13	1.000000
rad9	2.85618e-13	1.000000	2.85688e-13	1.000000
rad8	2.60376e-13	1.000000	2.60440e-13	1.000000
rad24	7.27490e-14	1.000000	7.27670e-14	1.000000
rad46	6.09114e-14	1.000000	6.09265e-14	1.000000
Ph+Allene	5.45276e-14	1.000000	5.45411e-14	1.000000
PAH7+H	2.04297e-14	1.000000	2.04347e-14	1.000000
rad14	1.75306e-14	1.000000	1.75349e-14	1.000000
rad27	7.40528e-15	1.000000	7.40711e-15	1.000000
rad39	3.60997e-15	1.000000	3.61086e-15	1.000000
rad12	3.12047e-15	1.000000	3.12124e-15	1.000000
rad60syn	1.14308e-15	1.000000	1.14337e-15	1.000000
PhCH2CCH+H	3.41658e-16	1.000000	3.41742e-16	1.000000
rad60anti	2.56152e-16	1.000000	2.56215e-16	1.000000
rad37	2.94033e-17	1.000000	2.94105e-17	1.000000
rad31	8.78289e-19	1.000000	8.78506e-19	1.000000
rad5	5.24503e-19	1.000000	5.24632e-19	1.000000
PAH3+H	3.82382e-19	1.000000	3.82476e-19	1.000000
rad59	1.35000e-19	1.000000	1.35034e-19	1.000000
rad50	7.87186e-21	1.000000	7.87381e-21	1.000000
rad19syn	1.01976e-22	1.000000	1.02001e-22	1.000000
rad54	1.41656e-24	1.000000	1.41691e-24	1.000000
PAH10+CH3	9.56773e-25	1.000000	9.57009e-25	1.000000
rad52	4.03307e-25	1.000000	4.03406e-25	1.000000
rad43	2.34622e-25	1.000000	2.34680e-25	1.000000
rad62	4.37510e-26	1.000000	4.37618e-26	1.000000
rad51	3.48350e-27	1.000000	3.48436e-27	1.000000
PhcycC3H3_A+H	8.14850e-28	1.000000	8.15051e-28	1.000000
rad70	7.52172e-28	1.000000	7.52357e-28	1.000000
rad55	2.76802e-28	1.000000	2.76870e-28	1.000000
rad58	5.58572e-29	1.000000	5.58710e-29	1.000000
rad65	1.54530e-29	1.000000	1.54568e-29	1.000000
PAH1+H	2.81665e-30	1.000000	2.81734e-30	1.000000
rad34	1.37130e-32	1.000000	1.37164e-32	1.000000
rad42	5.47123e-36	1.000000	5.47259e-36	1.000000
rad47	1.48885e-36	1.000000	1.48921e-36	1.000000
rad41	1.23128e-36	1.000000	1.23159e-36	1.000000

0.100000000 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22933e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.998638	0.998638	0.998948	0.998948
rad6	0.000699289	0.999337	0.000699507	0.999648
rad23	0.000346246	0.999684	0.000346353	0.999994
Benzyl+C2H2	0.000310468	0.999994	0.00000	0.999994
rad45	5.16690e-06	0.999999	5.16850e-06	0.999999
rad36	3.25838e-07	0.999999	3.25939e-07	0.999999
rad22	2.02505e-07	1.000000	2.02568e-07	1.000000
rad11	1.10797e-07	1.000000	1.10831e-07	1.000000
rad7	7.34203e-08	1.000000	7.34431e-08	1.000000
rad2	2.05022e-08	1.000000	2.05085e-08	1.000000
rad30	4.82831e-09	1.000000	4.82981e-09	1.000000
rad1	1.43197e-09	1.000000	1.43242e-09	1.000000
rad10	1.20373e-09	1.000000	1.20410e-09	1.000000
rad3	8.59713e-10	1.000000	8.59980e-10	1.000000
PAH9+H	6.20925e-10	1.000000	6.21117e-10	1.000000
rad28	5.36158e-10	1.000000	5.36324e-10	1.000000
rad35	4.74138e-10	1.000000	4.74285e-10	1.000000
rad4	4.46705e-10	1.000000	4.46844e-10	1.000000
rad15	3.89437e-10	1.000000	3.89558e-10	1.000000
rad13	3.02041e-10	1.000000	3.02135e-10	1.000000
PhCCH+CH3	1.60312e-10	1.000000	1.60362e-10	1.000000
rad38	1.07317e-10	1.000000	1.07350e-10	1.000000
rad26	9.85521e-11	1.000000	9.85827e-11	1.000000
PhCHCCH2+H	9.77595e-11	1.000000	9.77899e-11	1.000000
PhCCCH3+H	5.08346e-11	1.000000	5.08504e-11	1.000000
rad20	3.05550e-11	1.000000	3.05645e-11	1.000000
rad21	1.95315e-11	1.000000	1.95376e-11	1.000000
rad25	2.59062e-12	1.000000	2.59142e-12	1.000000
Ph+MeAc	1.96282e-12	1.000000	1.96343e-12	1.000000
rad18	1.40591e-12	1.000000	1.40635e-12	1.000000
rad9	7.61571e-13	1.000000	7.61808e-13	1.000000
rad8	7.59138e-13	1.000000	7.59374e-13	1.000000
rad33	5.75842e-13	1.000000	5.76021e-13	1.000000
Ph+Allene	1.90940e-13	1.000000	1.91000e-13	1.000000
rad46	1.24854e-13	1.000000	1.24893e-13	1.000000
PAH7+H	7.32473e-14	1.000000	7.32701e-14	1.000000
rad24	5.81747e-14	1.000000	5.81928e-14	1.000000
rad14	2.62417e-14	1.000000	2.62498e-14	1.000000
rad39	1.35069e-14	1.000000	1.35111e-14	1.000000
rad27	1.15659e-14	1.000000	1.15695e-14	1.000000
rad12	1.06618e-14	1.000000	1.06651e-14	1.000000
rad60syn	3.33242e-15	1.000000	3.33346e-15	1.000000
PhCH2CCH+H	1.54842e-15	1.000000	1.54890e-15	1.000000
rad60anti	7.94680e-16	1.000000	7.94927e-16	1.000000
rad37	1.26956e-16	1.000000	1.26995e-16	1.000000
rad5	2.54335e-18	1.000000	2.54414e-18	1.000000
PAH3+H	1.83471e-18	1.000000	1.83528e-18	1.000000
rad31	1.26970e-18	1.000000	1.27009e-18	1.000000
rad59	6.31390e-19	1.000000	6.31586e-19	1.000000
rad50	3.72637e-20	1.000000	3.72753e-20	1.000000
rad19syn	7.74910e-22	1.000000	7.75150e-22	1.000000
rad54	1.26581e-23	1.000000	1.26620e-23	1.000000
PAH10+CH3	8.52194e-24	1.000000	8.52459e-24	1.000000
rad52	2.88183e-24	1.000000	2.88273e-24	1.000000
rad43	2.07283e-24	1.000000	2.07347e-24	1.000000
rad62	4.33249e-25	1.000000	4.33384e-25	1.000000
rad51	3.50090e-26	1.000000	3.50199e-26	1.000000
PhcycC3H3_A+H	1.44542e-26	1.000000	1.44587e-26	1.000000
rad70	1.12357e-26	1.000000	1.12392e-26	1.000000
rad55	4.38173e-27	1.000000	4.38309e-27	1.000000
rad58	1.02249e-27	1.000000	1.02281e-27	1.000000
rad65	1.99378e-28	1.000000	1.99440e-28	1.000000
PAH1+H	1.96970e-28	1.000000	1.97031e-28	1.000000
rad34	9.71596e-30	1.000000	9.71898e-30	1.000000
rad42	4.12576e-32	1.000000	4.12705e-32	1.000000
rad41	7.48680e-33	1.000000	7.48912e-33	1.000000
rad47	2.01314e-35	1.000000	2.01377e-35	1.000000

0.100000000 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.98936e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998566	0.998566	0.998954	0.998954
rad6	0.000766248	0.999332	0.000766546	0.999721
Benzyl+C2H2	0.000388623	0.999721	0.00000	0.999721
rad23	0.000274202	0.999995	0.000274309	0.999995

rad45	4.08147e-06	0.999999	4.08306e-06	0.999999
rad36	2.58411e-07	0.999999	2.58512e-07	0.999999
rad22	1.59474e-07	1.000000	1.59536e-07	0.999999
rad11	9.50834e-08	1.000000	9.51204e-08	0.999999
rad7	8.01720e-08	1.000000	8.02032e-08	1.000000
rad2	3.06561e-08	1.000000	3.06680e-08	1.000000
rad30	6.93089e-09	1.000000	6.93359e-09	1.000000
rad1	2.16417e-09	1.000000	2.16501e-09	1.000000
rad10	1.80194e-09	1.000000	1.80265e-09	1.000000
rad3	1.02043e-09	1.000000	1.02083e-09	1.000000
rad28	1.00952e-09	1.000000	1.00992e-09	1.000000
PAH9+H	8.60863e-10	1.000000	8.61197e-10	1.000000
rad35	6.31583e-10	1.000000	6.31829e-10	1.000000
rad15	6.20852e-10	1.000000	6.21093e-10	1.000000
rad4	5.31842e-10	1.000000	5.32049e-10	1.000000
PhCCH+CH3	4.03327e-10	1.000000	4.03484e-10	1.000000
rad13	3.32135e-10	1.000000	3.32264e-10	1.000000
PhCHCCH2+H	2.41306e-10	1.000000	2.41399e-10	1.000000
rad26	2.03804e-10	1.000000	2.03884e-10	1.000000
rad38	1.56841e-10	1.000000	1.56902e-10	1.000000
PhCCCH3+H	1.30167e-10	1.000000	1.30217e-10	1.000000
rad20	2.75419e-11	1.000000	2.75526e-11	1.000000
rad21	1.76427e-11	1.000000	1.76496e-11	1.000000
Ph+MeAc	6.10719e-12	1.000000	6.10957e-12	1.000000
rad25	2.99097e-12	1.000000	2.99214e-12	1.000000
rad8	2.04904e-12	1.000000	2.04984e-12	1.000000
rad9	1.91276e-12	1.000000	1.91350e-12	1.000000
rad18	1.19352e-12	1.000000	1.19399e-12	1.000000
rad33	6.35141e-13	1.000000	6.35388e-13	1.000000
Ph+Allene	6.13394e-13	1.000000	6.13632e-13	1.000000
rad46	2.44446e-13	1.000000	2.44541e-13	1.000000
PAH7+H	2.40064e-13	1.000000	2.40157e-13	1.000000
rad24	4.65676e-14	1.000000	4.65857e-14	1.000000
rad39	4.59310e-14	1.000000	4.59488e-14	1.000000
rad14	3.79778e-14	1.000000	3.79926e-14	1.000000
rad12	3.32245e-14	1.000000	3.32374e-14	1.000000
rad27	1.75939e-14	1.000000	1.76007e-14	1.000000
rad60syn	8.91679e-15	1.000000	8.92025e-15	1.000000
PhCH2CCH+H	6.26236e-15	1.000000	6.26480e-15	1.000000
rad60anti	2.24875e-15	1.000000	2.24963e-15	1.000000
rad37	4.86185e-16	1.000000	4.86374e-16	1.000000
rad5	1.08775e-17	1.000000	1.08817e-17	1.000000
PAH3+H	7.75145e-18	1.000000	7.75446e-18	1.000000
rad59	2.60238e-18	1.000000	2.60339e-18	1.000000
rad31	1.84983e-18	1.000000	1.85055e-18	1.000000
rad50	1.56116e-19	1.000000	1.56177e-19	1.000000
rad19syn	4.97402e-21	1.000000	4.97595e-21	1.000000
rad54	9.33971e-23	1.000000	9.34334e-23	1.000000
PAH10+CH3	6.26583e-23	1.000000	6.26826e-23	1.000000
rad52	1.75214e-23	1.000000	1.75282e-23	1.000000
rad43	1.51287e-23	1.000000	1.51346e-23	1.000000
rad62	3.45942e-24	1.000000	3.46077e-24	1.000000
rad51	2.83212e-25	1.000000	2.83323e-25	1.000000
PhcycC3H3_A+H	1.59707e-25	1.000000	1.59770e-25	1.000000
rad70	1.14135e-25	1.000000	1.14179e-25	1.000000
rad55	4.58199e-26	1.000000	4.58377e-26	1.000000
rad58	1.13812e-26	1.000000	1.13856e-26	1.000000
PAH1+H	3.13901e-27	1.000000	3.14023e-27	1.000000
rad65	1.88955e-27	1.000000	1.89028e-27	1.000000
rad34	1.86916e-28	1.000000	1.86989e-28	1.000000
rad42	2.43577e-30	1.000000	2.43672e-30	1.000000
rad41	7.01884e-31	1.000000	7.02157e-31	1.000000
rad47	1.86946e-34	1.000000	1.87019e-34	1.000000

0.100000000 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17706e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998455	0.998455	0.998939	0.998939
rad6	0.000839909	0.999295	0.000840316	0.999779
Benzyl+C2H2	0.000484070	0.999779	0.000000	0.999779
rad23	0.000217232	0.999996	0.000217337	0.999997
rad45	3.22726e-06	0.999999	3.22882e-06	1.000000
rad36	2.05250e-07	1.000000	2.05349e-07	1.000000
rad22	1.25678e-07	1.000000	1.25739e-07	1.000000
rad7	8.75948e-08	1.000000	8.76372e-08	1.000000

rad11	8.29674e-08	1.000000	8.30076e-08	1.00000
rad2	4.48159e-08	1.000000	4.48376e-08	1.00000
rad30	9.77994e-09	1.000000	9.78467e-09	1.00000
rad1	3.20047e-09	1.000000	3.20202e-09	1.00000
rad10	2.63604e-09	1.000000	2.63732e-09	1.00000
rad28	1.83952e-09	1.000000	1.84041e-09	1.00000
rad3	1.21274e-09	1.000000	1.21332e-09	1.00000
PAH9+H	1.18472e-09	1.000000	1.18529e-09	1.00000
rad15	9.63129e-10	1.000000	9.63596e-10	1.00000
PhCCH+CH3	9.61949e-10	1.000000	9.62415e-10	1.00000
rad35	8.36805e-10	1.000000	8.37211e-10	1.00000
rad4	6.34176e-10	1.000000	6.34484e-10	1.00000
PhCHCCH2+H	5.64738e-10	1.000000	5.65012e-10	1.00000
rad26	3.98711e-10	1.000000	3.98905e-10	1.00000
rad13	3.65437e-10	1.000000	3.65614e-10	1.00000
PhCCCH3+H	3.14121e-10	1.000000	3.14273e-10	1.00000
rad38	2.26419e-10	1.000000	2.26528e-10	1.00000
rad20	2.48911e-11	1.000000	2.49032e-11	1.00000
Ph+MeAc	1.75604e-11	1.000000	1.75689e-11	1.00000
rad21	1.59815e-11	1.000000	1.59893e-11	1.00000
rad8	5.16228e-12	1.000000	5.16478e-12	1.00000
rad9	4.55827e-12	1.000000	4.56047e-12	1.00000
rad25	3.35435e-12	1.000000	3.35598e-12	1.00000
Ph+Allene	1.82518e-12	1.000000	1.82606e-12	1.00000
rad18	1.01646e-12	1.000000	1.01695e-12	1.00000
PAH7+H	7.24909e-13	1.000000	7.25260e-13	1.00000
rad33	7.01007e-13	1.000000	7.01346e-13	1.00000
rad46	4.59710e-13	1.000000	4.59933e-13	1.00000
rad39	1.43234e-13	1.000000	1.43303e-13	1.00000
rad12	9.52962e-14	1.000000	9.53424e-14	1.00000
rad14	5.33685e-14	1.000000	5.33943e-14	1.00000
rad24	3.73215e-14	1.000000	3.73396e-14	1.00000
rad27	2.60889e-14	1.000000	2.61015e-14	1.00000
PhCH2CCH+H	2.28898e-14	1.000000	2.29009e-14	1.00000
rad60syn	2.21330e-14	1.000000	2.21437e-14	1.00000
rad60anti	5.87081e-15	1.000000	5.87366e-15	1.00000
rad37	1.67417e-15	1.000000	1.67498e-15	1.00000
rad5	4.16053e-17	1.000000	4.16255e-17	1.00000
PAH3+H	2.92883e-17	1.000000	2.93025e-17	1.00000
rad59	9.60035e-18	1.000000	9.60500e-18	1.00000
rad31	2.70834e-18	1.000000	2.70966e-18	1.00000
rad50	5.87531e-19	1.000000	5.87816e-19	1.00000
rad19syn	2.75525e-20	1.000000	2.75658e-20	1.00000
rad54	5.86378e-22	1.000000	5.86662e-22	1.00000
PAH10+CH3	3.91806e-22	1.000000	3.91996e-22	1.00000
rad43	9.38952e-23	1.000000	9.39407e-23	1.00000
rad52	9.25315e-23	1.000000	9.25763e-23	1.00000
rad62	2.32356e-23	1.000000	2.32468e-23	1.00000
rad51	1.92436e-24	1.000000	1.92529e-24	1.00000
PhcycC3H3_A+H	1.33260e-24	1.000000	1.33324e-24	1.00000
rad70	9.12658e-25	1.000000	9.13100e-25	1.00000
rad55	3.72230e-25	1.000000	3.72410e-25	1.00000
rad58	9.51676e-26	1.000000	9.52137e-26	1.00000
PAH1+H	2.95096e-26	1.000000	2.95239e-26	1.00000
rad65	1.44335e-26	1.000000	1.44405e-26	1.00000
rad34	1.81501e-27	1.000000	1.81589e-27	1.00000
rad42	2.57011e-29	1.000000	2.57135e-29	1.00000
rad41	7.46475e-30	1.000000	7.46836e-30	1.00000
rad47	1.43164e-33	1.000000	1.43234e-33	1.00000

0.100000000 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19260e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998304	0.998304	0.998903	0.998903
rad6	0.000920664	0.999225	0.000921216	0.999824
Benzyl+C2H2	0.000599974	0.999825	0.00000	0.999824
rad23	0.000172199	0.999997	0.000172302	0.999997
rad45	2.55492e-06	0.999999	2.55646e-06	0.999999
rad36	1.63315e-07	1.000000	1.63413e-07	0.999999
rad22	9.91301e-08	1.000000	9.91896e-08	0.999999
rad7	9.57262e-08	1.000000	9.57836e-08	0.999999
rad11	7.37764e-08	1.000000	7.38207e-08	1.000000
rad2	6.40519e-08	1.000000	6.40904e-08	1.000000
rad30	1.35893e-08	1.000000	1.35975e-08	1.000000
rad1	4.63136e-09	1.000000	4.63414e-09	1.000000

rad10	3.76898e-09	1.000000	3.77125e-09	1.000000
rad28	3.24425e-09	1.000000	3.24620e-09	1.000000
PhCCH+CH3	2.18281e-09	1.000000	2.18412e-09	1.000000
PAH9+H	1.61869e-09	1.000000	1.61966e-09	1.000000
rad15	1.45841e-09	1.000000	1.45929e-09	1.000000
rad3	1.44331e-09	1.000000	1.44417e-09	1.000000
PhCHCCH2+H	1.25807e-09	1.000000	1.25882e-09	1.000000
rad35	1.10273e-09	1.000000	1.10339e-09	1.000000
rad4	7.57467e-10	1.000000	7.57921e-10	1.000000
rad26	7.40700e-10	1.000000	7.41145e-10	1.000000
PhCCCH3+H	7.17849e-10	1.000000	7.18280e-10	1.000000
rad13	4.02175e-10	1.000000	4.02417e-10	1.000000
rad38	3.23140e-10	1.000000	3.23334e-10	1.000000
Ph+MeAc	4.70085e-11	1.000000	4.70367e-11	1.000000
rad20	2.25551e-11	1.000000	2.25687e-11	1.000000
rad21	1.45180e-11	1.000000	1.45267e-11	1.000000
rad8	1.22244e-11	1.000000	1.22318e-11	1.000000
rad9	1.03650e-11	1.000000	1.03712e-11	1.000000
Ph+Allene	5.06980e-12	1.000000	5.07285e-12	1.000000
rad25	3.66689e-12	1.000000	3.66909e-12	1.000000
PAH7+H	2.03101e-12	1.000000	2.03223e-12	1.000000
rad18	8.68246e-13	1.000000	8.68767e-13	1.000000
rad46	8.34317e-13	1.000000	8.34818e-13	1.000000
rad33	7.73967e-13	1.000000	7.74432e-13	1.000000
rad39	4.12848e-13	1.000000	4.13096e-13	1.000000
rad12	2.53583e-13	1.000000	2.53735e-13	1.000000
PhCH2CCH+H	7.64245e-14	1.000000	7.64704e-14	1.000000
rad14	7.30770e-14	1.000000	7.31209e-14	1.000000
rad60syn	5.14217e-14	1.000000	5.14526e-14	1.000000
rad27	3.77420e-14	1.000000	3.77646e-14	1.000000
rad24	2.99548e-14	1.000000	2.99728e-14	1.000000
rad60anti	1.42771e-14	1.000000	1.42857e-14	1.000000
rad37	5.24444e-15	1.000000	5.24759e-15	1.000000
rad5	1.44015e-16	1.000000	1.44101e-16	1.000000
PAH3+H	1.00275e-16	1.000000	1.00335e-16	1.000000
rad59	3.21162e-17	1.000000	3.21354e-17	1.000000
rad31	3.97426e-18	1.000000	3.97665e-18	1.000000
rad50	2.01134e-18	1.000000	2.01255e-18	1.000000
rad19syn	1.33962e-19	1.000000	1.34043e-19	1.000000
rad54	3.19720e-21	1.000000	3.19911e-21	1.000000
PAH10+CH3	2.12514e-21	1.000000	2.12642e-21	1.000000
rad43	5.05256e-22	1.000000	5.05559e-22	1.000000
rad52	4.31622e-22	1.000000	4.31881e-22	1.000000
rad62	1.34425e-22	1.000000	1.34505e-22	1.000000
rad51	1.12915e-23	1.000000	1.12983e-23	1.000000
PhcycC3H3_A+H	9.32179e-24	1.000000	9.32739e-24	1.000000
rad70	6.15730e-24	1.000000	6.16099e-24	1.000000
rad55	2.54579e-24	1.000000	2.54732e-24	1.000000
rad58	6.66583e-25	1.000000	6.66984e-25	1.000000
PAH1+H	2.26528e-25	1.000000	2.26664e-25	1.000000
rad65	9.37491e-26	1.000000	9.38054e-26	1.000000
rad34	1.42662e-26	1.000000	1.42748e-26	1.000000
rad42	2.13879e-28	1.000000	2.14007e-28	1.000000
rad41	6.26012e-29	1.000000	6.26388e-29	1.000000
rad47	9.23996e-33	1.000000	9.24550e-33	1.000000

0.100000000 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.03546e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998112	0.998112	0.998851	0.998851
rad6	0.00100886	0.999121	0.00100961	0.999861
Benzyl+C2H2	0.000739925	0.999861	0.000000	0.999861
rad23	0.000136618	0.999997	0.000136719	0.999997
rad45	2.02570e-06	0.999999	2.02720e-06	0.999999
rad36	1.30220e-07	1.000000	1.30316e-07	0.999999
rad7	1.04600e-07	1.000000	1.04677e-07	1.000000
rad2	8.95201e-08	1.000000	8.95864e-08	1.000000
rad22	7.82752e-08	1.000000	7.83332e-08	1.000000
rad11	6.69781e-08	1.000000	6.70277e-08	1.000000
rad30	1.86209e-08	1.000000	1.86347e-08	1.000000
rad1	6.55988e-09	1.000000	6.56474e-09	1.000000
rad28	5.53956e-09	1.000000	5.54366e-09	1.000000
rad10	5.26882e-09	1.000000	5.27272e-09	1.000000
PhCCH+CH3	4.72765e-09	1.000000	4.73116e-09	1.000000
PhCHCCH2+H	2.67682e-09	1.000000	2.67880e-09	1.000000

PAH9+H	2.19607e-09	1.000000	2.19770e-09	1.000000
rad15	2.16123e-09	1.000000	2.16283e-09	1.000000
rad3	1.71935e-09	1.000000	1.72063e-09	1.000000
PhCCCH3+H	1.55998e-09	1.000000	1.56114e-09	1.000000
rad35	1.44528e-09	1.000000	1.44635e-09	1.000000
rad26	1.31138e-09	1.000000	1.31235e-09	1.000000
rad4	9.05850e-10	1.000000	9.06521e-10	1.000000
rad38	4.56248e-10	1.000000	4.56586e-10	1.000000
rad13	4.42570e-10	1.000000	4.42897e-10	1.000000
Ph+MeAc	1.17903e-10	1.000000	1.17990e-10	1.000000
rad8	2.73721e-11	1.000000	2.73924e-11	1.000000
rad9	2.25856e-11	1.000000	2.26023e-11	1.000000
rad20	2.04937e-11	1.000000	2.05089e-11	1.000000
Ph+Allene	1.32311e-11	1.000000	1.32409e-11	1.000000
rad21	1.32270e-11	1.000000	1.32368e-11	1.000000
PAH7+H	5.31305e-12	1.000000	5.31699e-12	1.000000
rad25	3.91911e-12	1.000000	3.92201e-12	1.000000
rad46	1.46694e-12	1.000000	1.46803e-12	1.000000
rad39	1.10754e-12	1.000000	1.10836e-12	1.000000
rad33	8.54546e-13	1.000000	8.55179e-13	1.000000
rad18	7.43739e-13	1.000000	7.44290e-13	1.000000
rad12	6.30353e-13	1.000000	6.30820e-13	1.000000
PhCH2CCH+H	2.35207e-13	1.000000	2.35381e-13	1.000000
rad60syn	1.12674e-13	1.000000	1.12758e-13	1.000000
rad14	9.77812e-14	1.000000	9.78536e-14	1.000000
rad27	5.33149e-14	1.000000	5.33544e-14	1.000000
rad60anti	3.26072e-14	1.000000	3.26314e-14	1.000000
rad24	2.40850e-14	1.000000	2.41028e-14	1.000000
rad37	1.50940e-14	1.000000	1.51052e-14	1.000000
rad5	4.55727e-16	1.000000	4.56064e-16	1.000000
PAH3+H	3.14561e-16	1.000000	3.14794e-16	1.000000
rad59	9.85148e-17	1.000000	9.85878e-17	1.000000
rad50	6.33041e-18	1.000000	6.33510e-18	1.000000
rad31	5.83218e-18	1.000000	5.83650e-18	1.000000
rad19syn	5.79924e-19	1.000000	5.80353e-19	1.000000
rad54	1.53820e-20	1.000000	1.53934e-20	1.000000
PAH10+CH3	1.01575e-20	1.000000	1.01650e-20	1.000000
rad43	2.39474e-21	1.000000	2.39651e-21	1.000000
rad52	1.80343e-21	1.000000	1.80476e-21	1.000000
rad62	6.81457e-22	1.000000	6.81962e-22	1.000000
rad51	5.82341e-23	1.000000	5.82772e-23	1.000000
PhcycC3H3_A+H	5.62802e-23	1.000000	5.63218e-23	1.000000
rad70	3.59364e-23	1.000000	3.59630e-23	1.000000
rad55	1.50498e-23	1.000000	1.50610e-23	1.000000
rad58	4.02880e-24	1.000000	4.03178e-24	1.000000
PAH1+H	1.48836e-24	1.000000	1.48946e-24	1.000000
rad65	5.29578e-25	1.000000	5.29970e-25	1.000000
rad34	9.58585e-26	1.000000	9.59295e-26	1.000000
rad42	1.52310e-27	1.000000	1.52423e-27	1.000000
rad41	4.49841e-28	1.000000	4.50174e-28	1.000000
rad47	5.12997e-32	1.000000	5.13377e-32	1.000000

0.100000000 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89185e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997877	0.997877	0.998783	0.998783
rad6	0.00110480	0.998982	0.00110580	0.999889
Benzyl+C2H2	0.000907969	0.999890	0.000000	0.999889
rad23	0.000108517	0.999998	0.000108615	0.999997
rad45	1.60911e-06	1.000000	1.61057e-06	0.999999
rad2	1.22404e-07	1.000000	1.22515e-07	0.999999
rad7	1.14243e-07	1.000000	1.14347e-07	0.999999
rad36	1.04089e-07	1.000000	1.04184e-07	0.999999
rad11	6.21494e-08	1.000000	6.22059e-08	0.999999
rad22	6.18925e-08	1.000000	6.19488e-08	0.999999
rad30	2.51916e-08	1.000000	2.52145e-08	1.000000
PhCCH+CH3	9.80146e-09	1.000000	9.81037e-09	1.000000
rad28	9.16202e-09	1.000000	9.17035e-09	1.000000
rad1	9.09894e-09	1.000000	9.10721e-09	1.000000
rad10	7.20537e-09	1.000000	7.21192e-09	1.000000
PhCHCCH2+H	5.45632e-09	1.000000	5.46128e-09	1.000000
PhCCCH3+H	3.23554e-09	1.000000	3.23848e-09	1.000000
rad15	3.14109e-09	1.000000	3.14395e-09	1.000000
PAH9+H	2.95887e-09	1.000000	2.96156e-09	1.000000
rad26	2.22021e-09	1.000000	2.22223e-09	1.000000

rad3	2.04831e-09	1.00000	2.05018e-09	1.000000
rad35	1.88395e-09	1.00000	1.88566e-09	1.000000
rad4	1.08368e-09	1.00000	1.08467e-09	1.000000
rad38	6.37682e-10	1.00000	6.38261e-10	1.000000
rad13	4.86822e-10	1.00000	4.87264e-10	1.000000
Ph+MeAc	2.78594e-10	1.00000	2.78848e-10	1.000000
rad8	5.82511e-11	1.00000	5.83040e-11	1.000000
rad9	4.73162e-11	1.00000	4.73592e-11	1.000000
Ph+Allene	3.26180e-11	1.00000	3.26476e-11	1.000000
rad20	1.86728e-11	1.00000	1.86897e-11	1.000000
PAH7+H	1.30507e-11	1.00000	1.30625e-11	1.000000
rad21	1.20873e-11	1.00000	1.20983e-11	1.000000
rad25	4.10608e-12	1.00000	4.10981e-12	1.000000
rad39	2.78249e-12	1.00000	2.78502e-12	1.000000
rad46	2.50696e-12	1.00000	2.50924e-12	1.000000
rad12	1.47260e-12	1.00000	1.47394e-12	1.000000
rad33	9.43250e-13	1.00000	9.44107e-13	1.000000
PhCH2CCH+H	6.72480e-13	1.00000	6.73091e-13	1.000000
rad18	6.38818e-13	1.00000	6.39399e-13	1.000000
rad60syn	2.34361e-13	1.00000	2.34573e-13	1.000000
rad14	1.28148e-13	1.00000	1.28264e-13	1.000000
rad27	7.36089e-14	1.00000	7.36758e-14	1.000000
rad60anti	7.04279e-14	1.00000	7.04919e-14	1.000000
rad37	4.02542e-14	1.00000	4.02908e-14	1.000000
rad24	1.94074e-14	1.00000	1.94251e-14	1.000000
rad5	1.32998e-15	1.00000	1.33119e-15	1.000000
PAH3+H	9.12765e-16	1.00000	9.13594e-16	1.000000
rad59	2.79726e-16	1.00000	2.79980e-16	1.000000
rad50	1.84845e-17	1.00000	1.85013e-17	1.000000
rad31	8.54550e-18	1.00000	8.55327e-18	1.000000
rad19syn	2.26222e-18	1.00000	2.26428e-18	1.000000
rad54	6.61312e-20	1.00000	6.61913e-20	1.000000
PAH10+CH3	4.33360e-20	1.00000	4.33753e-20	1.000000
rad43	1.01279e-20	1.00000	1.01371e-20	1.000000
rad52	6.82887e-21	1.00000	6.83507e-21	1.000000
rad62	3.06749e-21	1.00000	3.07028e-21	1.000000
PhcycC3H3_A+H	2.96829e-22	1.00000	2.97098e-22	1.000000
rad51	2.67268e-22	1.00000	2.67511e-22	1.000000
rad70	1.83800e-22	1.00000	1.83967e-22	1.000000
rad55	7.78790e-23	1.00000	7.79497e-23	1.000000
rad58	2.12655e-23	1.00000	2.12849e-23	1.000000
PAH1+H	8.44880e-24	1.00000	8.45648e-24	1.000000
rad65	2.63455e-24	1.00000	2.63694e-24	1.000000
rad34	5.54854e-25	1.00000	5.55358e-25	1.000000
rad42	9.27196e-27	1.00000	9.28038e-27	1.000000
rad41	2.75991e-27	1.00000	2.76242e-27	1.000000
rad47	2.49014e-31	1.00000	2.49241e-31	1.000000

0.100000000 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.19550e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997594	0.997594	0.998702	0.998702
rad6	0.00120867	0.998803	0.00121001	0.999912
Benzyl+C2H2	0.00110863	0.999911	0.000000	0.999912
rad23	8.63331e-05	0.999998	8.64289e-05	0.999998
rad45	1.28116e-06	0.999999	1.28258e-06	1.000000
rad2	1.63844e-07	0.999999	1.64026e-07	1.000000
rad7	1.24675e-07	0.999999	1.24813e-07	1.000000
rad36	8.34482e-08	0.999999	8.35409e-08	1.000000
rad11	5.89516e-08	0.999999	5.90170e-08	1.000000
rad22	4.90233e-08	0.999999	4.90777e-08	1.000000
rad30	3.36821e-08	0.999999	3.37195e-08	1.000000
PhCCH+CH3	1.95023e-08	0.999999	1.95239e-08	1.000000
rad28	1.46877e-08	0.999999	1.47040e-08	1.000000
rad1	1.23675e-08	0.999999	1.23812e-08	1.000000
PhCHCCH2+H	1.06834e-08	0.999999	1.06952e-08	1.000000
rad10	9.64611e-09	0.999999	9.65681e-09	1.000000
PhCCCH3+H	6.42560e-09	1.000000	6.43273e-09	1.000000
rad15	4.48553e-09	1.000000	4.49050e-09	1.000000
PAH9+H	3.95963e-09	1.000000	3.96402e-09	1.000000
rad26	3.60592e-09	1.000000	3.60993e-09	1.000000
rad35	2.44243e-09	1.000000	2.44514e-09	1.000000
rad3	2.43740e-09	1.000000	2.44010e-09	1.000000
rad4	1.29532e-09	1.000000	1.29676e-09	1.000000
rad38	8.82716e-10	1.000000	8.83696e-10	1.000000

Ph+MeAc	6.23179e-10	1.000000	6.23871e-10	1.00000
rad13	5.35105e-10	1.000000	5.35699e-10	1.00000
rad8	1.18339e-10	1.000000	1.18470e-10	1.00000
rad9	9.55464e-11	1.000000	9.56524e-11	1.00000
Ph+Allene	7.63077e-11	1.000000	7.63924e-11	1.00000
PAH7+H	3.02544e-11	1.000000	3.02880e-11	1.00000
rad20	1.70633e-11	1.000000	1.70822e-11	1.00000
rad21	1.10807e-11	1.000000	1.10930e-11	1.00000
rad39	6.58266e-12	1.000000	6.58997e-12	1.00000
rad25	4.22706e-12	1.000000	4.23175e-12	1.00000
rad46	4.17576e-12	1.000000	4.18040e-12	1.00000
rad12	3.25031e-12	1.000000	3.25392e-12	1.00000
PhCH2CCH+H	1.79825e-12	1.000000	1.80025e-12	1.00000
rad33	1.04055e-12	1.000000	1.04170e-12	1.00000
rad18	5.50153e-13	1.000000	5.50764e-13	1.00000
rad60syn	4.65302e-13	1.000000	4.65818e-13	1.00000
rad14	1.64800e-13	1.000000	1.64983e-13	1.00000
rad60anti	1.44719e-13	1.000000	1.44880e-13	1.00000
rad37	1.00210e-13	1.000000	1.00321e-13	1.00000
rad27	9.94239e-14	1.000000	9.95343e-14	1.00000
rad24	1.56798e-14	1.000000	1.56972e-14	1.00000
rad5	3.60687e-15	1.000000	3.61087e-15	1.00000
PAH3+H	2.46994e-15	1.000000	2.47268e-15	1.00000
rad59	7.41215e-16	1.000000	7.42038e-16	1.00000
rad50	5.04636e-17	1.000000	5.05196e-17	1.00000
rad31	1.24900e-17	1.000000	1.25038e-17	1.00000
rad19syn	8.03458e-18	1.000000	8.04349e-18	1.00000
rad54	2.56876e-19	1.000000	2.57161e-19	1.00000
PAH10+CH3	1.66884e-19	1.000000	1.67069e-19	1.00000
rad43	3.86537e-20	1.000000	3.86966e-20	1.00000
rad52	2.36687e-20	1.000000	2.36950e-20	1.00000
rad62	1.24042e-20	1.000000	1.24179e-20	1.00000
PhcycC3H3_A+H	1.38561e-21	1.000000	1.38715e-21	1.00000
rad51	1.10375e-21	1.000000	1.10498e-21	1.00000
rad70	8.34448e-22	1.000000	8.35374e-22	1.00000
rad55	3.57351e-22	1.000000	3.57748e-22	1.00000
rad58	9.93293e-23	1.000000	9.94395e-23	1.00000
PAH1+H	4.20575e-23	1.000000	4.21042e-23	1.00000
rad65	1.16834e-23	1.000000	1.16963e-23	1.00000
rad34	2.80962e-24	1.000000	2.81274e-24	1.00000
rad42	4.90863e-26	1.000000	4.91408e-26	1.00000
rad41	1.47133e-26	1.000000	1.47296e-26	1.00000
rad47	1.07189e-30	1.000000	1.07308e-30	1.00000

0.100000000 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17545e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.996987	0.996987	0.998644	0.998644
Benzyl+C2H2	0.00165874	0.998646	0.00000	0.998644
rad6	0.00121284	0.999859	0.00121485	0.999859
rad23	0.000137787	0.999996	0.000138016	0.999997
rad45	2.35080e-06	0.999999	2.35470e-06	0.999999
rad2	2.32957e-07	0.999999	2.33345e-07	0.999999
rad22	1.37358e-07	0.999999	1.37586e-07	1.000000
rad7	1.30309e-07	0.999999	1.30525e-07	1.000000
rad11	9.48408e-08	0.999999	9.49984e-08	1.000000
PhCCH+CH3	9.23107e-08	0.999999	9.24641e-08	1.000000
rad36	8.01218e-08	0.999999	8.02550e-08	1.000000
PhCHCCH2+H	4.51548e-08	1.000000	4.52298e-08	1.00000
rad30	3.74147e-08	1.000000	3.74769e-08	1.00000
rad28	3.47601e-08	1.000000	3.48179e-08	1.00000
PhCCCH3+H	2.98750e-08	1.000000	2.99247e-08	1.00000
rad1	1.75543e-08	1.000000	1.75834e-08	1.00000
rad10	1.35260e-08	1.000000	1.35484e-08	1.00000
rad26	8.36796e-09	1.000000	8.38186e-09	1.00000
PAH9+H	5.51788e-09	1.000000	5.52705e-09	1.00000
Ph+MeAc	3.40383e-09	1.000000	3.40948e-09	1.00000
rad3	2.92984e-09	1.000000	2.93470e-09	1.00000
rad35	2.75008e-09	1.000000	2.75465e-09	1.00000
rad4	1.45702e-09	1.000000	1.45944e-09	1.00000
rad38	1.02108e-09	1.000000	1.02278e-09	1.00000
rad20	9.09848e-10	1.000000	9.11360e-10	1.00000
rad13	6.27465e-10	1.000000	6.28507e-10	1.00000
rad21	5.80972e-10	1.000000	5.81937e-10	1.00000
Ph+Allene	2.40346e-10	1.000000	2.40745e-10	1.00000

PAH7+H	2.26799e-10	1.000000	2.27176e-10	1.00000
rad18	8.47033e-11	1.000000	8.48440e-11	1.00000
rad39	4.16615e-11	1.000000	4.17307e-11	1.00000
rad19anti	1.27247e-11	1.000000	1.27458e-11	1.00000
PhCH2CCH+H	9.95244e-12	1.000000	9.96898e-12	1.00000
rad46	5.68005e-12	1.000000	5.68949e-12	1.00000
rad9	4.10142e-12	1.000000	4.10824e-12	1.00000
rad25	3.47768e-12	1.000000	3.48346e-12	1.00000
rad33	1.49010e-12	1.000000	1.49257e-12	1.00000
rad60syn	7.07111e-13	1.000000	7.08286e-13	1.00000
rad37	6.57661e-13	1.000000	6.58754e-13	1.00000
rad14	2.61520e-13	1.000000	2.61955e-13	1.00000
rad60anti	2.13119e-13	1.000000	2.13473e-13	1.00000
rad27	1.92013e-13	1.000000	1.92332e-13	1.00000
rad24	3.69255e-14	1.000000	3.69869e-14	1.00000
PAH3+H	6.27884e-15	1.000000	6.28928e-15	1.00000
rad15	2.33257e-15	1.000000	2.33644e-15	1.00000
rad59	1.45304e-15	1.000000	1.45546e-15	1.00000
rad50	1.05670e-16	1.000000	1.05845e-16	1.00000
rad31	4.60999e-17	1.000000	4.61765e-17	1.00000
rad19syn	4.56593e-17	1.000000	4.57352e-17	1.00000
rad67	1.56303e-18	1.000000	1.56563e-18	1.00000
rad54	1.36211e-18	1.000000	1.36437e-18	1.00000
PAH10+CH3	9.94764e-19	1.000000	9.96416e-19	1.00000
rad43	2.07223e-19	1.000000	2.07567e-19	1.00000
rad52	6.58890e-20	1.000000	6.59985e-20	1.00000
rad62	6.29432e-20	1.000000	6.30478e-20	1.00000
rad12	4.25793e-20	1.000000	4.26501e-20	1.00000
rad5	9.36033e-21	1.000000	9.37588e-21	1.00000
PhcycC3H3_A+H	9.26287e-21	1.000000	9.27826e-21	1.00000
rad70	4.17344e-21	1.000000	4.18037e-21	1.00000
rad51	3.76741e-21	1.000000	3.77367e-21	1.00000
rad55	1.69344e-21	1.000000	1.69626e-21	1.00000
rad58	3.60811e-22	1.000000	3.61411e-22	1.00000
PAH1+H	3.22627e-22	1.000000	3.23163e-22	1.00000
rad65	4.69329e-23	1.000000	4.70108e-23	1.00000
rad34	2.06593e-23	1.000000	2.06936e-23	1.00000
rad42	5.40553e-25	1.000000	5.41451e-25	1.00000
rad41	1.81691e-25	1.000000	1.81993e-25	1.00000
rad53	6.75528e-27	1.000000	6.76650e-27	1.00000
rad64	1.44820e-27	1.000000	1.45060e-27	1.00000
rad56	1.09498e-29	1.000000	1.09680e-29	1.00000
rad47	2.57565e-30	1.000000	2.57993e-30	1.00000
rad61	2.22667e-30	1.000000	2.23037e-30	1.00000
rad68syn	1.21267e-30	1.000000	1.21468e-30	1.00000
rad68anti	8.65789e-31	1.000000	8.67227e-31	1.00000
rad73	6.00947e-31	1.000000	6.01946e-31	1.00000
rad71	2.28693e-32	1.000000	2.29073e-32	1.00000
rad40syn	2.59247e-33	1.000000	2.59678e-33	1.00000
PAH8+H	1.76300e-33	1.000000	1.76593e-33	1.00000
rad40anti	9.47051e-34	1.000000	9.48624e-34	1.00000
rad72	3.96437e-38	1.000000	3.97095e-38	1.00000
rad8	1.12752e-40	1.000000	1.12939e-40	1.00000

0.100000000 Pa, 310.000000 K

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

Total | 2.44453e-22 (1.00) | 2.44055e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.996874	0.996874	0.998500	0.998500
Benzyl+C2H2	0.00162843	0.998502	0.000000	0.998500
rad6	0.00144043	0.999943	0.00144278	0.999943
rad23	5.50199e-05	0.999998	5.51096e-05	0.999998
rad45	8.19760e-07	0.999999	8.21097e-07	0.999999
rad2	2.76264e-07	0.999999	2.76715e-07	0.999999
rad7	1.47919e-07	0.999999	1.48160e-07	0.999999
PhCCH+CH3	6.88945e-08	0.999999	6.90069e-08	0.999999
rad30	5.83118e-08	0.999999	5.84069e-08	0.999999
rad11	5.64056e-08	0.999999	5.64976e-08	0.999999
rad36	5.42398e-08	0.999999	5.43282e-08	0.999999
PhCHCCH2+H	3.66446e-08	0.999999	3.67043e-08	0.999999
rad28	3.44936e-08	0.999999	3.45498e-08	0.999999
rad22	3.09735e-08	0.999999	3.10240e-08	0.999999
PhCCCH3+H	2.24979e-08	0.999999	2.25346e-08	0.999999
rad1	2.15691e-08	1.000000	2.16043e-08	1.000000
rad10	1.62706e-08	1.000000	1.62971e-08	1.000000
rad15	8.72806e-09	1.000000	8.74230e-09	1.000000

rad26	8.49498e-09	1.000000	8.50884e-09	1.000000
PAH9+H	6.95142e-09	1.000000	6.96276e-09	1.000000
rad35	4.03896e-09	1.000000	4.04554e-09	1.000000
rad3	3.42093e-09	1.000000	3.42651e-09	1.000000
Ph+MeAc	2.68947e-09	1.000000	2.69386e-09	1.000000
rad4	1.83609e-09	1.000000	1.83908e-09	1.000000
rad38	1.64609e-09	1.000000	1.64877e-09	1.000000
rad13	6.44241e-10	1.000000	6.45292e-10	1.000000
rad8	4.31197e-10	1.000000	4.31900e-10	1.000000
Ph+Allene	3.62425e-10	1.000000	3.63016e-10	1.000000
rad9	3.51665e-10	1.000000	3.52238e-10	1.000000
PAH7+H	1.39153e-10	1.000000	1.39380e-10	1.000000
rad39	3.13588e-11	1.000000	3.14100e-11	1.000000
rad20	1.43821e-11	1.000000	1.44056e-11	1.000000
rad12	1.35996e-11	1.000000	1.36218e-11	1.000000
rad46	1.08244e-11	1.000000	1.08420e-11	1.000000
PhCH2CCH+H	1.07632e-11	1.000000	1.07808e-11	1.000000
rad21	9.40659e-12	1.000000	9.42193e-12	1.000000
rad25	4.28521e-12	1.000000	4.29220e-12	1.000000
rad60syn	1.62483e-12	1.000000	1.62748e-12	1.000000
rad33	1.26246e-12	1.000000	1.26452e-12	1.000000
rad60anti	5.36752e-13	1.000000	5.37628e-13	1.000000
rad37	5.17776e-13	1.000000	5.18620e-13	1.000000
rad18	4.11245e-13	1.000000	4.11915e-13	1.000000
rad14	2.59035e-13	1.000000	2.59458e-13	1.000000
rad27	1.70530e-13	1.000000	1.70808e-13	1.000000
rad5	2.18450e-14	1.000000	2.18807e-14	1.000000
PAH3+H	1.50697e-14	1.000000	1.50943e-14	1.000000
rad24	1.03418e-14	1.000000	1.03587e-14	1.000000
rad59	4.34541e-15	1.000000	4.35250e-15	1.000000
rad50	3.15384e-16	1.000000	3.15899e-16	1.000000
rad19syn	7.91642e-17	1.000000	7.92933e-17	1.000000
rad31	2.64513e-17	1.000000	2.64944e-17	1.000000
rad54	2.96452e-18	1.000000	2.96935e-18	1.000000
PAH10+CH3	1.88894e-18	1.000000	1.89202e-18	1.000000
rad43	4.29630e-19	1.000000	4.30330e-19	1.000000
rad52	2.25271e-19	1.000000	2.25638e-19	1.000000
rad62	1.52859e-19	1.000000	1.53109e-19	1.000000
PhcycC3H3_A+H	2.18682e-20	1.000000	2.19039e-20	1.000000
rad51	1.42259e-20	1.000000	1.42491e-20	1.000000
rad70	1.25542e-20	1.000000	1.25747e-20	1.000000
rad55	5.47618e-21	1.000000	5.48511e-21	1.000000
rad58	1.56889e-21	1.000000	1.57145e-21	1.000000
PAH1+H	7.37759e-22	1.000000	7.38962e-22	1.000000
rad65	1.69465e-22	1.000000	1.69741e-22	1.000000
rad34	5.06997e-23	1.000000	5.07824e-23	1.000000
rad42	9.54277e-25	1.000000	9.55833e-25	1.000000
rad41	2.89455e-25	1.000000	2.89927e-25	1.000000
rad47	1.45227e-29	1.000000	1.45464e-29	1.000000

0.100000000 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.60269e-20 (1.00)	3.57089e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.988639	0.988639	0.997444	0.997444
Benzyl+C2H2	0.00882710	0.997466	0.000000	0.997444
rad6	0.00248786	0.999954	0.00251002	0.999954
rad23	3.11752e-05	0.999985	3.14528e-05	0.999985
PhCCH+CH3	5.99822e-06	0.999991	6.05163e-06	0.999992
PhCHCCH2+H	2.65966e-06	0.999994	2.68335e-06	0.999994
PhCCCH3+H	1.76487e-06	0.999996	1.78059e-06	0.999996
rad2	1.11196e-06	0.999997	1.12186e-06	0.999997
rad45	8.17634e-07	0.999997	8.24916e-07	0.999998
rad28	4.69389e-07	0.999998	4.73570e-07	0.999998
rad30	4.01151e-07	0.999998	4.04724e-07	0.999999
Ph+MeAc	3.74873e-07	0.999999	3.78212e-07	0.999999
rad7	2.71555e-07	0.999999	2.73974e-07	0.999999
rad1	1.03483e-07	0.999999	1.04404e-07	1.000000
rad26	9.39192e-08	0.999999	9.47556e-08	1.000000
rad11	8.21823e-08	0.999999	8.29142e-08	1.000000
PAH9+H	6.79070e-08	0.999999	6.85117e-08	1.000000
rad10	6.53385e-08	0.999999	6.59204e-08	1.000000
Ph+Allene	5.65027e-08	0.999999	5.70059e-08	1.000000
rad36	3.13315e-08	1.000000	3.16105e-08	1.000000
PAH7+H	2.86670e-08	1.000000	2.89223e-08	1.000000
rad35	2.72847e-08	1.000000	2.75277e-08	1.000000

rad22	2.43395e-08	1.000000	2.45563e-08	1.00000
rad38	1.62978e-08	1.000000	1.64430e-08	1.00000
rad3	1.10898e-08	1.000000	1.11885e-08	1.00000
rad39	5.99667e-09	1.000000	6.05007e-09	1.00000
rad4	5.84026e-09	1.000000	5.89227e-09	1.00000
PhCH2CCH+H	4.41528e-09	1.000000	4.45460e-09	1.00000
rad13	1.43384e-09	1.000000	1.44661e-09	1.00000
rad19anti	7.03433e-10	1.000000	7.09698e-10	1.00000
rad20	4.56423e-10	1.000000	4.60488e-10	1.00000
rad21	3.16302e-10	1.000000	3.19119e-10	1.00000
rad46	3.07047e-10	1.000000	3.09781e-10	1.00000
rad37	1.18760e-10	1.000000	1.19818e-10	1.00000
rad60syn	9.46170e-11	1.000000	9.54596e-11	1.00000
rad60anti	3.76182e-11	1.000000	3.79532e-11	1.00000
rad18	2.62018e-11	1.000000	2.64351e-11	1.00000
rad9	7.83004e-12	1.000000	7.89977e-12	1.00000
PAH3+H	6.50579e-12	1.000000	6.56373e-12	1.00000
rad33	3.73812e-12	1.000000	3.77141e-12	1.00000
rad25	3.64079e-12	1.000000	3.67321e-12	1.00000
rad59	1.36012e-12	1.000000	1.37223e-12	1.00000
rad14	1.18246e-12	1.000000	1.19299e-12	1.00000
rad27	1.04752e-12	1.000000	1.05685e-12	1.00000
rad50	1.43947e-13	1.000000	1.45229e-13	1.00000
rad19syn	1.32293e-13	1.000000	1.33471e-13	1.00000
rad24	1.89038e-14	1.000000	1.90722e-14	1.00000
rad54	9.13377e-15	1.000000	9.21512e-15	1.00000
PAH10+CH3	5.34624e-15	1.000000	5.39385e-15	1.00000
rad15	4.67479e-15	1.000000	4.71642e-15	1.00000
rad31	1.89540e-15	1.000000	1.91228e-15	1.00000
rad67	1.69306e-15	1.000000	1.70814e-15	1.00000
rad43	9.54925e-16	1.000000	9.63429e-16	1.00000
rad62	5.08848e-16	1.000000	5.13380e-16	1.00000
rad52	4.99152e-16	1.000000	5.03597e-16	1.00000
PhcycC3H3_A+H	3.27618e-16	1.000000	3.30535e-16	1.00000
rad51	1.38733e-16	1.000000	1.39968e-16	1.00000
rad70	1.22281e-16	1.000000	1.23370e-16	1.00000
rad55	5.13207e-17	1.000000	5.17777e-17	1.00000
PAH1+H	2.49502e-17	1.000000	2.51724e-17	1.00000
rad58	1.80124e-17	1.000000	1.81728e-17	1.00000
rad65	3.25247e-18	1.000000	3.28144e-18	1.00000
rad34	2.06744e-18	1.000000	2.08586e-18	1.00000
rad5	5.27328e-19	1.000000	5.32024e-19	1.00000
rad12	1.32703e-19	1.000000	1.33885e-19	1.00000
rad42	7.68096e-20	1.000000	7.74937e-20	1.00000
rad41	2.89935e-20	1.000000	2.92517e-20	1.00000
rad53	6.47739e-21	1.000000	6.53507e-21	1.00000
rad64	2.35839e-21	1.000000	2.37940e-21	1.00000
rad73	8.30499e-22	1.000000	8.37895e-22	1.00000
rad71	2.01715e-22	1.000000	2.03511e-22	1.00000
rad56	1.92177e-22	1.000000	1.93888e-22	1.00000
rad68syn	2.63645e-23	1.000000	2.65993e-23	1.00000
rad61	2.02429e-23	1.000000	2.04232e-23	1.00000
rad68anti	1.83966e-23	1.000000	1.85604e-23	1.00000
PAH8+H	2.99869e-24	1.000000	3.02539e-24	1.00000
rad40syn	1.22587e-24	1.000000	1.23679e-24	1.00000
rad40anti	4.74237e-25	1.000000	4.78460e-25	1.00000
rad72	1.07256e-25	1.000000	1.08211e-25	1.00000
rad47	6.23868e-26	1.000000	6.29424e-26	1.00000
rad8	1.24249e-36	1.000000	1.25356e-36	1.00000

0.100000000 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.18794e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.965744	0.965744	0.996648	0.996648
Benzyl+C2H2	0.0310083	0.996752	0.000000	0.996648
rad6	0.00308787	0.999840	0.00318668	0.999835
PhCCH+CH3	7.11480e-05	0.999911	7.34248e-05	0.999908
PhCHCCH2+H	2.96821e-05	0.999941	3.06319e-05	0.999939
rad23	2.24918e-05	0.999963	2.32116e-05	0.999962
PhCCCH3+H	1.84915e-05	0.999982	1.90833e-05	0.999981
Ph+MeAc	6.20388e-06	0.999988	6.40240e-06	0.999987
rad30	2.19343e-06	0.999990	2.26362e-06	0.999990
Ph+Allene	1.96146e-06	0.999992	2.02423e-06	0.999992
rad2	1.93437e-06	0.999994	1.99627e-06	0.999994
rad45	1.73140e-06	0.999996	1.78681e-06	0.999996

rad28	1.27051e-06	0.999997	1.31117e-06	0.999997
PAH7+H	5.90246e-07	0.999998	6.09134e-07	0.999997
PAH9+H	4.85914e-07	0.999998	5.01464e-07	0.999998
rad7	3.52165e-07	0.999999	3.63434e-07	0.999998
PhCH2CCH+H	2.40486e-07	0.999999	2.48182e-07	0.999999
rad1	2.30975e-07	0.999999	2.38366e-07	0.999999
rad26	2.12329e-07	0.999999	2.19123e-07	0.999999
rad35	1.65958e-07	1.000000	1.71269e-07	0.999999
rad38	1.35269e-07	1.000000	1.39598e-07	0.999999
rad39	1.34468e-07	1.000000	1.38771e-07	0.999999
rad10	9.88057e-08	1.000000	1.01968e-07	1.000000
rad11	9.76969e-08	1.000000	1.00823e-07	1.000000
rad36	8.27634e-08	1.000000	8.54119e-08	1.000000
rad3	2.30506e-08	1.000000	2.37883e-08	1.000000
rad19anti	1.33904e-08	1.000000	1.38189e-08	1.000000
rad4	1.29788e-08	1.000000	1.33941e-08	1.000000
rad22	9.82411e-09	1.000000	1.01385e-08	1.000000
rad46	5.18278e-09	1.000000	5.34863e-09	1.000000
rad37	2.71414e-09	1.000000	2.80099e-09	1.000000
rad60syn	2.17387e-09	1.000000	2.24343e-09	1.000000
rad13	2.11765e-09	1.000000	2.18541e-09	1.000000
rad60anti	9.77979e-10	1.000000	1.00927e-09	1.000000
PAH3+H	4.98980e-10	1.000000	5.14948e-10	1.000000
rad20	3.52860e-10	1.000000	3.64152e-10	1.000000
rad21	2.74288e-10	1.000000	2.83066e-10	1.000000
rad59	9.55316e-11	1.000000	9.85887e-11	1.000000
rad50	2.35078e-11	1.000000	2.42600e-11	1.000000
rad19syn	2.21690e-11	1.000000	2.28784e-11	1.000000
rad9	1.31392e-11	1.000000	1.35597e-11	1.000000
rad18	1.09250e-11	1.000000	1.12746e-11	1.000000
rad33	6.52787e-12	1.000000	6.73676e-12	1.000000
rad25	2.92506e-12	1.000000	3.01866e-12	1.000000
rad54	2.42178e-12	1.000000	2.49927e-12	1.000000
rad14	2.07645e-12	1.000000	2.14290e-12	1.000000
rad27	1.91484e-12	1.000000	1.97612e-12	1.000000
PAH10+CH3	1.22692e-12	1.000000	1.26618e-12	1.000000
rad51	7.41957e-13	1.000000	7.65700e-13	1.000000
rad52	5.02437e-13	1.000000	5.18515e-13	1.000000
rad67	2.45319e-13	1.000000	2.53169e-13	1.000000
PhcycC3H3_A+H	2.14374e-13	1.000000	2.21234e-13	1.000000
rad43	1.76387e-13	1.000000	1.82032e-13	1.000000
rad62	1.28505e-13	1.000000	1.32617e-13	1.000000
rad70	6.84499e-14	1.000000	7.06403e-14	1.000000
rad24	6.00022e-14	1.000000	6.19224e-14	1.000000
PAH1+H	3.20782e-14	1.000000	3.31048e-14	1.000000
rad55	2.85967e-14	1.000000	2.95118e-14	1.000000
rad31	2.84240e-14	1.000000	2.93336e-14	1.000000
rad65	2.17814e-14	1.000000	2.24784e-14	1.000000
rad58	1.32136e-14	1.000000	1.36364e-14	1.000000
rad15	8.40007e-15	1.000000	8.66888e-15	1.000000
rad34	2.51993e-15	1.000000	2.60057e-15	1.000000
rad73	1.32488e-15	1.000000	1.36728e-15	1.000000
rad71	1.04507e-15	1.000000	1.07851e-15	1.000000
rad42	1.04078e-16	1.000000	1.07409e-16	1.000000
rad64	9.96486e-17	1.000000	1.02837e-16	1.000000
rad41	7.46717e-17	1.000000	7.70612e-17	1.000000
rad53	6.70369e-17	1.000000	6.91821e-17	1.000000
rad56	2.49291e-17	1.000000	2.57268e-17	1.000000
rad72	1.17692e-17	1.000000	1.21459e-17	1.000000
rad61	9.89473e-18	1.000000	1.02114e-17	1.000000
PAH8+H	9.48583e-18	1.000000	9.78938e-18	1.000000
rad68syn	7.12287e-18	1.000000	7.35081e-18	1.000000
rad68anti	4.71812e-18	1.000000	4.86910e-18	1.000000
rad5	3.85864e-18	1.000000	3.98212e-18	1.000000
rad40syn	1.58968e-18	1.000000	1.64055e-18	1.000000
rad40anti	8.37876e-19	1.000000	8.64688e-19	1.000000
rad12	6.19732e-19	1.000000	6.39564e-19	1.000000
rad47	7.09868e-23	1.000000	7.32584e-23	1.000000
rad8	1.95611e-32	1.000000	2.01870e-32	1.000000

0.100000000 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	1.36947e-17 (1.00)	1.26201e-17 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.918710	0.918710	0.996934	0.996934
Benzy1+C2H2	0.0784644	0.997174	0.000000	0.996934

rad6	0.00222975	0.999404	0.00241961	0.999354
PhCCH+CH3	0.000303621	0.999708	0.000329473	0.999683
PhCHCCH2+H	0.000124718	0.999832	0.000135337	0.999818
PhCCCH3+H	6.72512e-05	0.999900	7.29773e-05	0.999891
Ph+MeAc	3.27663e-05	0.999933	3.55562e-05	0.999927
Ph+Allene	2.14394e-05	0.999954	2.32648e-05	0.999950
rad23	1.92941e-05	0.999973	2.09369e-05	0.999971
rad30	7.58817e-06	0.999981	8.23427e-06	0.999979
PAH7+H	4.22376e-06	0.999985	4.58340e-06	0.999984
PhCH2CCH+H	3.64603e-06	0.999989	3.95647e-06	0.999988
rad45	2.28965e-06	0.999991	2.48461e-06	0.999990
PAH9+H	2.26408e-06	0.999993	2.45686e-06	0.999993
rad2	2.02300e-06	0.999995	2.19525e-06	0.999995
rad28	1.28815e-06	0.999997	1.39783e-06	0.999996
rad39	1.00822e-06	0.999998	1.09407e-06	0.999998
rad38	6.97492e-07	0.999998	7.56880e-07	0.999998
rad35	6.77941e-07	0.999999	7.35664e-07	0.999999
rad1	2.97193e-07	0.999999	3.22497e-07	0.999999
rad7	2.76279e-07	1.000000	2.99803e-07	1.000000
rad26	1.86280e-07	1.000000	2.02141e-07	1.000000
rad36	1.51461e-07	1.000000	1.64357e-07	1.000000
rad19anti	1.15204e-07	1.000000	1.25013e-07	1.000000
rad11	7.97094e-08	1.000000	8.64963e-08	1.000000
rad10	6.86735e-08	1.000000	7.45207e-08	1.000000
rad46	4.52151e-08	1.000000	4.90650e-08	1.000000
rad3	2.63582e-08	1.000000	2.86025e-08	1.000000
rad60syn	1.92898e-08	1.000000	2.09322e-08	1.000000
rad37	1.81056e-08	1.000000	1.96472e-08	1.000000
rad4	1.60256e-08	1.000000	1.73902e-08	1.000000
PAH3+H	9.96352e-09	1.000000	1.08119e-08	1.000000
rad60anti	9.33450e-09	1.000000	1.01293e-08	1.000000
rad22	6.28091e-09	1.000000	6.81570e-09	1.000000
rad50	2.61023e-09	1.000000	2.83248e-09	1.000000
rad13	2.03707e-09	1.000000	2.21051e-09	1.000000
rad59	1.75920e-09	1.000000	1.90899e-09	1.000000
rad19syn	6.92929e-10	1.000000	7.51929e-10	1.000000
rad51	4.95910e-10	1.000000	5.38135e-10	1.000000
rad20	4.60934e-10	1.000000	5.00180e-10	1.000000
rad21	4.06180e-10	1.000000	4.40765e-10	1.000000
rad52	1.72102e-10	1.000000	1.86756e-10	1.000000
rad54	1.03617e-10	1.000000	1.12439e-10	1.000000
PAH10+CH3	8.38167e-11	1.000000	9.09533e-11	1.000000
rad9	3.85774e-11	1.000000	4.18621e-11	1.000000
PhcycC3H3_A+H	1.84680e-11	1.000000	2.00405e-11	1.000000
PAH1+H	1.65954e-11	1.000000	1.80084e-11	1.000000
rad67	1.38062e-11	1.000000	1.49817e-11	1.000000
rad65	1.35598e-11	1.000000	1.47144e-11	1.000000
rad71	9.98058e-12	1.000000	1.08304e-11	1.000000
rad33	8.61354e-12	1.000000	9.34694e-12	1.000000
rad73	7.84783e-12	1.000000	8.51604e-12	1.000000
rad18	6.76848e-12	1.000000	7.34479e-12	1.000000
rad70	6.28382e-12	1.000000	6.81886e-12	1.000000
rad43	5.92960e-12	1.000000	6.43448e-12	1.000000
rad62	4.85693e-12	1.000000	5.27047e-12	1.000000
rad25	2.37353e-12	1.000000	2.57563e-12	1.000000
rad55	1.99989e-12	1.000000	2.17017e-12	1.000000
rad14	1.96399e-12	1.000000	2.13122e-12	1.000000
rad27	1.77755e-12	1.000000	1.92890e-12	1.000000
rad58	1.60415e-12	1.000000	1.74073e-12	1.000000
rad34	6.99134e-13	1.000000	7.58662e-13	1.000000
rad24	5.47559e-13	1.000000	5.94181e-13	1.000000
rad72	2.83996e-13	1.000000	3.08177e-13	1.000000
rad64	2.51593e-13	1.000000	2.73015e-13	1.000000
PAH8+H	1.11728e-13	1.000000	1.21241e-13	1.000000
rad31	8.82543e-14	1.000000	9.57687e-14	1.000000
rad61	5.35836e-14	1.000000	5.81460e-14	1.000000
rad53	4.15942e-14	1.000000	4.51358e-14	1.000000
rad68syn	3.55197e-14	1.000000	3.85440e-14	1.000000
rad56	3.48546e-14	1.000000	3.78223e-14	1.000000
rad41	2.97850e-14	1.000000	3.23210e-14	1.000000
rad15	2.42162e-14	1.000000	2.62781e-14	1.000000
rad68anti	2.31242e-14	1.000000	2.50931e-14	1.000000
rad42	2.11491e-14	1.000000	2.29499e-14	1.000000
rad40syn	1.35955e-14	1.000000	1.47531e-14	1.000000
rad40anti	8.20338e-15	1.000000	8.90186e-15	1.000000
rad12	2.57072e-17	1.000000	2.78960e-17	1.000000
rad5	9.49425e-18	1.000000	1.03026e-17	1.000000
rad47	4.35015e-20	1.000000	4.72054e-20	1.000000
rad8	5.54978e-28	1.000000	6.02232e-28	1.000000

0.100000000 Pa, 700.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	8.02260e-17 (1.00)		6.78370e-17 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.843050	0.843050	0.997015	0.997015
Benzyl+C2H2	0.154426	0.997476	0.000000	0.997015
rad6	0.00105994	0.998536	0.00125352	0.998269
PhCCH+CH3	0.000724858	0.999261	0.000857238	0.999126
PhCHCCH2+H	0.000312748	0.999574	0.000369865	0.999496
PhCCCH3+H	0.000131681	0.999705	0.000155729	0.999651
Ph+Allene	0.000115622	0.999821	0.000136738	0.999788
Ph+MeAc	8.85007e-05	0.999909	0.000104663	0.999893
PhCH2CCH+H	2.52660e-05	0.999935	2.98803e-05	0.999923
rad30	1.89311e-05	0.999954	2.23885e-05	0.999945
PAH7+H	1.62723e-05	0.999970	1.92441e-05	0.999964
rad23	9.39376e-06	0.999979	1.11093e-05	0.999975
PAH9+H	7.54817e-06	0.999987	8.92668e-06	0.999984
rad39	3.95666e-06	0.999991	4.67926e-06	0.999989
rad38	2.50704e-06	0.999993	2.96490e-06	0.999992
rad35	2.02758e-06	0.999995	2.39787e-06	0.999994
rad45	1.37127e-06	0.999997	1.62171e-06	0.999996
rad2	1.15521e-06	0.999998	1.36619e-06	0.999997
rad28	7.28286e-07	0.999999	8.61292e-07	0.999998
rad19anti	5.93054e-07	0.999999	7.01363e-07	0.999999
rad46	2.40008e-07	0.999999	2.83840e-07	0.999999
rad1	1.87418e-07	1.000000	2.21646e-07	0.999999
rad7	1.51441e-07	1.000000	1.79099e-07	1.000000
rad36	1.02278e-07	1.000000	1.20957e-07	1.000000
rad60syn	9.48598e-08	1.000000	1.12184e-07	1.000000
rad26	9.48026e-08	1.000000	1.12116e-07	1.000000
PAH3+H	8.84844e-08	1.000000	1.04644e-07	1.000000
rad37	5.82730e-08	1.000000	6.89153e-08	1.000000
rad60anti	4.82722e-08	1.000000	5.70880e-08	1.000000
rad11	4.77520e-08	1.000000	5.64728e-08	1.000000
rad50	3.93045e-08	1.000000	4.64826e-08	1.000000
rad10	2.94722e-08	1.000000	3.48547e-08	1.000000
rad59	1.45222e-08	1.000000	1.71744e-08	1.000000
rad3	1.42340e-08	1.000000	1.68336e-08	1.000000
rad51	9.98692e-09	1.000000	1.18108e-08	1.000000
rad4	9.13180e-09	1.000000	1.07995e-08	1.000000
rad19syn	7.84090e-09	1.000000	9.27287e-09	1.000000
rad52	3.07059e-09	1.000000	3.63137e-09	1.000000
rad22	2.96843e-09	1.000000	3.51055e-09	1.000000
rad13	1.57305e-09	1.000000	1.86033e-09	1.000000
rad54	1.44780e-09	1.000000	1.71220e-09	1.000000
PAH10+CH3	1.39964e-09	1.000000	1.65525e-09	1.000000
rad20	9.73590e-10	1.000000	1.15139e-09	1.000000
rad21	9.32882e-10	1.000000	1.10325e-09	1.000000
PAH1+H	4.03758e-10	1.000000	4.77496e-10	1.000000
PhcycC3H3_A+H	3.68074e-10	1.000000	4.35294e-10	1.000000
rad71	3.15425e-10	1.000000	3.73031e-10	1.000000
rad65	2.65188e-10	1.000000	3.13618e-10	1.000000
rad67	2.48349e-10	1.000000	2.93705e-10	1.000000
rad73	2.30392e-10	1.000000	2.72468e-10	1.000000
rad9	2.04442e-10	1.000000	2.41779e-10	1.000000
rad70	1.26998e-10	1.000000	1.50191e-10	1.000000
rad43	6.65515e-11	1.000000	7.87057e-11	1.000000
rad62	5.88625e-11	1.000000	6.96125e-11	1.000000
rad55	3.67310e-11	1.000000	4.34392e-11	1.000000
rad58	3.58675e-11	1.000000	4.24179e-11	1.000000
rad34	1.73844e-11	1.000000	2.05593e-11	1.000000
rad33	1.18210e-11	1.000000	1.39799e-11	1.000000
rad72	1.02016e-11	1.000000	1.20646e-11	1.000000
rad18	6.83632e-12	1.000000	8.08482e-12	1.000000
rad64	6.57223e-12	1.000000	7.77250e-12	1.000000
rad24	5.55444e-12	1.000000	6.56884e-12	1.000000
PAH8+H	4.05804e-12	1.000000	4.79915e-12	1.000000
rad25	1.89921e-12	1.000000	2.24606e-12	1.000000
rad61	1.71647e-12	1.000000	2.02995e-12	1.000000
rad14	1.41341e-12	1.000000	1.67154e-12	1.000000
rad41	1.40952e-12	1.000000	1.66694e-12	1.000000
rad27	1.28136e-12	1.000000	1.51537e-12	1.000000
rad68syn	1.06364e-12	1.000000	1.25789e-12	1.000000
rad53	9.07567e-13	1.000000	1.07331e-12	1.000000
rad56	7.72437e-13	1.000000	9.13506e-13	1.000000
rad68anti	6.91015e-13	1.000000	8.17214e-13	1.000000

rad42	6.06572e-13	1.00000	7.17349e-13	1.00000
rad40syn	5.06811e-13	1.00000	5.99369e-13	1.00000
rad40anti	3.37436e-13	1.00000	3.99061e-13	1.00000
rad15	9.07518e-14	1.00000	1.07326e-13	1.00000
rad31	8.54380e-14	1.00000	1.01041e-13	1.00000
rad12	2.80072e-15	1.00000	3.31221e-15	1.00000
rad5	1.36917e-17	1.00000	1.61921e-17	1.00000
rad47	4.31287e-18	1.00000	5.10052e-18	1.00000
rad8	1.32647e-23	1.00000	1.56873e-23	1.00000

0.100000000 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.12228e-16 (1.00)	2.33594e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.744967	0.744967	0.995743	0.995743
Benzyl+C2H2	0.251848	0.996815	0.00000	0.995743
PhCCH+CH3	0.00122982	0.998045	0.00164382	0.997387
PhCHCCH2+H	0.000600352	0.998645	0.000802447	0.998189
rad6	0.000392678	0.999038	0.000524864	0.998714
Ph+Allene	0.000391353	0.999429	0.000523093	0.999237
PhCCCH3+H	0.000178130	0.999607	0.000238093	0.999475
Ph+MeAc	0.000159197	0.999767	0.000212787	0.999688
PhCH2CCH+H	0.000104796	0.999871	0.000140074	0.999828
PAH7+H	4.19745e-05	0.999913	5.61043e-05	0.999884
rad30	3.73178e-05	0.999951	4.98800e-05	0.999934
PAH9+H	1.88975e-05	0.999970	2.52590e-05	0.999959
rad39	1.01790e-05	0.999980	1.36056e-05	0.999973
rad38	6.56976e-06	0.999986	8.78133e-06	0.999982
rad35	4.70532e-06	0.999991	6.28925e-06	0.999988
rad23	3.32041e-06	0.999994	4.43815e-06	0.999993
rad19anti	2.13868e-06	0.999996	2.85861e-06	0.999995
rad46	7.64625e-07	0.999997	1.02202e-06	0.999996
rad45	6.20147e-07	0.999998	8.28905e-07	0.999997
PAH3+H	4.58816e-07	0.999998	6.13265e-07	0.999998
rad2	3.99891e-07	0.999999	5.34505e-07	0.999998
rad60syn	3.14736e-07	0.999999	4.20685e-07	0.999999
rad28	3.02224e-07	0.999999	4.03961e-07	0.999999
rad60anti	1.66276e-07	0.999999	2.22250e-07	0.999999
rad37	1.19149e-07	1.000000	1.59258e-07	1.000000
rad50	1.16381e-07	1.000000	1.55558e-07	1.000000
rad7	7.09235e-08	1.000000	9.47982e-08	1.000000
rad59	7.07974e-08	1.000000	9.46297e-08	1.000000
rad1	6.36210e-08	1.000000	8.50376e-08	1.000000
rad36	4.86117e-08	1.000000	6.49757e-08	1.000000
rad19syn	4.59403e-08	1.000000	6.14050e-08	1.000000
rad26	3.69966e-08	1.000000	4.94507e-08	1.000000
rad51	2.78115e-08	1.000000	3.71736e-08	1.000000
rad11	2.59117e-08	1.000000	3.46343e-08	1.000000
rad54	9.87518e-09	1.000000	1.31994e-08	1.000000
rad10	9.69287e-09	1.000000	1.29558e-08	1.000000
rad52	8.57982e-09	1.000000	1.14680e-08	1.000000
rad3	4.91272e-09	1.000000	6.56648e-09	1.000000
PAH10+CH3	4.77460e-09	1.000000	6.38186e-09	1.000000
rad4	3.21734e-09	1.000000	4.30038e-09	1.000000
PhcycC3H3_A+H	3.12251e-09	1.000000	4.17364e-09	1.000000
rad20	2.68772e-09	1.000000	3.59247e-09	1.000000
rad21	2.53964e-09	1.000000	3.39456e-09	1.000000
rad67	1.60793e-09	1.000000	2.14920e-09	1.000000
PAH1+H	1.56522e-09	1.000000	2.09212e-09	1.000000
rad13	1.31898e-09	1.000000	1.76299e-09	1.000000
rad22	1.19820e-09	1.000000	1.60155e-09	1.000000
rad9	1.06218e-09	1.000000	1.41974e-09	1.000000
rad71	9.76722e-10	1.000000	1.30551e-09	1.000000
rad70	8.60300e-10	1.000000	1.14990e-09	1.000000
rad65	7.34514e-10	1.000000	9.81772e-10	1.000000
rad73	6.99008e-10	1.000000	9.34313e-10	1.000000
rad62	3.24049e-10	1.000000	4.33133e-10	1.000000
rad55	2.99941e-10	1.000000	4.00910e-10	1.000000
rad58	2.86768e-10	1.000000	3.83302e-10	1.000000
rad43	2.50862e-10	1.000000	3.35309e-10	1.000000
rad34	9.60401e-11	1.000000	1.28370e-10	1.000000
rad72	3.27261e-11	1.000000	4.37426e-11	1.000000
rad24	2.86894e-11	1.000000	3.83471e-11	1.000000
rad33	2.15567e-11	1.000000	2.88132e-11	1.000000
rad64	2.05370e-11	1.000000	2.74503e-11	1.000000
PAH8+H	1.44548e-11	1.000000	1.93207e-11	1.000000

rad18	1.20484e-11	1.00000	1.61042e-11	1.00000
rad41	6.85780e-12	1.00000	9.16632e-12	1.00000
rad61	5.80657e-12	1.00000	7.76122e-12	1.00000
rad53	5.37478e-12	1.00000	7.18408e-12	1.00000
rad42	3.44935e-12	1.00000	4.61050e-12	1.00000
rad68syn	3.34231e-12	1.00000	4.46742e-12	1.00000
rad56	2.75094e-12	1.00000	3.67698e-12	1.00000
rad68anti	2.17313e-12	1.00000	2.90467e-12	1.00000
rad40syn	1.91889e-12	1.00000	2.56484e-12	1.00000
rad25	1.80999e-12	1.00000	2.41928e-12	1.00000
rad40anti	1.38647e-12	1.00000	1.85319e-12	1.00000
rad27	1.11164e-12	1.00000	1.48584e-12	1.00000
rad14	1.09796e-12	1.00000	1.46756e-12	1.00000
rad15	3.01276e-13	1.00000	4.02693e-13	1.00000
rad12	7.15731e-14	1.00000	9.56666e-14	1.00000
rad31	5.30891e-14	1.00000	7.09603e-14	1.00000
rad47	2.55823e-17	1.00000	3.41940e-17	1.00000
rad5	1.70251e-17	1.00000	2.27562e-17	1.00000
rad8	8.00836e-20	1.00000	1.07042e-19	1.00000

0.100000000 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.21769e-16 (1.00)	5.91956e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.637494	0.637494	0.992679	0.992679
Benzyl+C2H2	0.357804	0.995298	0.00000	0.992679
PhCCH+CH3	0.00168025	0.996978	0.00261642	0.995295
PhCHCCH2+H	0.000986763	0.997965	0.00153654	0.996832
Ph+Allene	0.000956713	0.998922	0.00148975	0.998322
PhCH2CCH+H	0.000305698	0.999227	0.000476019	0.998798
Ph+MeAc	0.000222072	0.999449	0.000345801	0.999144
PhCCCH3+H	0.000191730	0.999641	0.000298554	0.999442
rad6	0.000119485	0.999761	0.000186057	0.999628
PAH7+H	8.19026e-05	0.999843	0.000127535	0.999756
rad30	6.20703e-05	0.999905	9.66532e-05	0.999852
PAH9+H	3.86754e-05	0.999943	6.02237e-05	0.999913
rad39	1.95316e-05	0.999963	3.04138e-05	0.999943
rad38	1.38917e-05	0.999977	2.16316e-05	0.999965
rad35	9.09007e-06	0.999986	1.41547e-05	0.999979
rad19anti	5.95996e-06	0.999992	9.28059e-06	0.999988
rad46	1.85698e-06	0.999994	2.89161e-06	0.999991
PAH3+H	1.66268e-06	0.999995	2.58905e-06	0.999994
rad23	1.19901e-06	0.999997	1.86705e-06	0.999995
rad60syn	7.95462e-07	0.999997	1.23866e-06	0.999997
rad60anti	4.32799e-07	0.999998	6.73936e-07	0.999997
rad45	2.70701e-07	0.999998	4.21524e-07	0.999998
rad59	2.42221e-07	0.999998	3.77176e-07	0.999998
rad50	2.02404e-07	0.999998	3.15176e-07	0.999998
rad37	1.85095e-07	0.999999	2.88222e-07	0.999999
rad19syn	1.72707e-07	0.999999	2.68933e-07	0.999999
rad2	1.05144e-07	0.999999	1.63726e-07	0.999999
rad28	1.01546e-07	0.999999	1.58123e-07	0.999999
rad54	4.19438e-08	0.999999	6.53132e-08	0.999999
rad7	3.09354e-08	0.999999	4.81713e-08	0.999999
rad51	3.09090e-08	0.999999	4.81302e-08	0.999999
rad36	2.29074e-08	0.999999	3.56704e-08	0.999999
rad1	1.76987e-08	0.999999	2.75597e-08	1.000000
PhcycC3H3_A+H	1.65189e-08	0.999999	2.57225e-08	1.000000
rad11	1.41729e-08	0.999999	2.20694e-08	1.000000
rad26	1.25040e-08	0.999999	1.94707e-08	1.000000
rad52	1.12821e-08	0.999999	1.75680e-08	1.000000
PAH10+CH3	8.65632e-09	0.999999	1.34792e-08	1.000000
rad67	7.99552e-09	0.999999	1.24503e-08	1.000000
rad20	6.09788e-09	0.999999	9.49536e-09	1.000000
rad21	5.14698e-09	0.999999	8.01465e-09	1.000000
PAH1+H	4.12424e-09	0.999999	6.42210e-09	1.000000
rad70	3.94590e-09	0.999999	6.14438e-09	1.000000
rad10	3.30440e-09	0.999999	5.14547e-09	1.000000
rad9	2.55012e-09	0.999999	3.97094e-09	1.000000
rad58	1.63462e-09	0.999999	2.54536e-09	1.000000
rad55	1.48361e-09	0.999999	2.31022e-09	1.000000
rad3	1.47876e-09	0.999999	2.30266e-09	1.000000
rad13	1.39742e-09	0.999999	2.17600e-09	1.000000
rad62	1.12043e-09	0.999999	1.74469e-09	1.000000
rad4	1.02250e-09	0.999999	1.59219e-09	1.000000
rad71	9.89940e-10	0.999999	1.54149e-09	1.000000

rad65	8.37202e-10	0.999999	1.30366e-09	1.000000
rad73	7.02164e-10	0.999999	1.09338e-09	1.000000
rad22	6.07780e-10	0.999999	9.46410e-10	1.000000
rad43	5.10746e-10	0.999999	7.95312e-10	1.000000
rad34	4.18222e-10	0.999999	6.51237e-10	1.000000
rad24	5.74565e-11	0.999999	8.94689e-11	1.000000
rad33	3.83421e-11	0.999999	5.97047e-11	1.000000
rad72	3.37486e-11	0.999999	5.25519e-11	1.000000
rad53	3.15451e-11	0.999999	4.91208e-11	1.000000
rad64	3.12664e-11	0.999999	4.86868e-11	1.000000
rad18	3.02450e-11	0.999999	4.70962e-11	1.000000
PAH8+H	1.65322e-11	0.999999	2.57432e-11	1.000000
rad42	1.20504e-11	0.999999	1.87643e-11	1.000000
rad41	9.89377e-12	0.999999	1.54062e-11	1.000000
rad56	9.68291e-12	0.999999	1.50778e-11	1.000000
rad61	6.36844e-12	0.999999	9.91666e-12	1.000000
rad68syn	4.49949e-12	0.999999	7.00641e-12	1.000000
rad68anti	2.95580e-12	0.999999	4.60264e-12	1.000000
rad40syn	2.33470e-12	0.999999	3.63550e-12	1.000000
rad25	2.21863e-12	0.999999	3.45476e-12	1.000000
rad40anti	1.72793e-12	0.999999	2.69065e-12	1.000000
rad27	1.18287e-12	0.999999	1.84191e-12	1.000000
rad14	1.00227e-12	0.999999	1.56070e-12	1.000000
rad15	6.07785e-13	0.999999	9.46417e-13	1.000000
rad12	3.94559e-13	0.999999	6.14391e-13	1.000000
rad31	3.08501e-14	0.999999	4.80385e-14	1.000000
rad8	5.03993e-17	0.999999	7.84796e-17	1.000000
rad47	3.23428e-17	0.999999	5.03628e-17	1.000000
rad5	1.95061e-17	0.999999	3.03740e-17	1.000000

0.100000000 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.23691e-15 (1.00)	1.20782e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.533114	0.533114	0.987345	0.987345
Benzyl+C2H2	0.460053	0.993167	0.000000	0.987345
PhCCH+CH3	0.00197652	0.995144	0.00366058	0.991006
Ph+Allene	0.00184726	0.996991	0.00342119	0.994427
PhCHCCH2+H	0.00144967	0.998440	0.00268484	0.997112
PhCH2CCH+H	0.000695195	0.999136	0.00128753	0.998399
Ph+MeAc	0.000262497	0.999398	0.000486154	0.998885
PhCCCH3+H	0.000177721	0.999576	0.000329146	0.999214
PAH7+H	0.000130592	0.999706	0.000241861	0.999456
rad30	9.13373e-05	0.999798	0.000169160	0.999625
PAH9+H	6.92513e-05	0.999867	0.000128256	0.999754
rad6	3.36510e-05	0.999901	6.23229e-05	0.999816
rad39	3.03679e-05	0.999931	5.62424e-05	0.999872
rad38	2.56405e-05	0.999957	4.74871e-05	0.999920
rad35	1.54717e-05	0.999972	2.86542e-05	0.999948
rad19anti	1.37001e-05	0.999986	2.53730e-05	0.999974
PAH3+H	4.67897e-06	0.999991	8.66561e-06	0.999982
rad46	3.95007e-06	0.999995	7.31568e-06	0.999990
rad60syn	1.65658e-06	0.999996	3.06804e-06	0.999993
rad60anti	9.23196e-07	0.999997	1.70979e-06	0.999995
rad59	6.45568e-07	0.999998	1.19561e-06	0.999996
rad23	5.04421e-07	0.999998	9.34206e-07	0.999997
rad19syn	4.72784e-07	0.999999	8.75612e-07	0.999998
rad50	4.54157e-07	0.999999	8.41114e-07	0.999998
rad37	2.46563e-07	0.999999	4.56644e-07	0.999999
rad45	1.28794e-07	1.000000	2.38531e-07	0.999999
rad54	1.26815e-07	1.000000	2.34866e-07	0.999999
PhcycC3H3_A+H	6.10193e-08	1.000000	1.13010e-07	0.999999
rad51	4.01665e-08	1.000000	7.43898e-08	1.000000
rad67	3.31789e-08	1.000000	6.14485e-08	1.000000
rad28	3.20619e-08	1.000000	5.93797e-08	1.000000
rad2	2.75034e-08	1.000000	5.09373e-08	1.000000
rad52	2.02270e-08	1.000000	3.74611e-08	1.000000
PAH10+CH3	1.68530e-08	1.000000	3.12123e-08	1.000000
rad7	1.47803e-08	1.000000	2.73737e-08	1.000000
rad70	1.37400e-08	1.000000	2.54469e-08	1.000000
PAH1+H	1.25651e-08	1.000000	2.32709e-08	1.000000
rad36	1.13861e-08	1.000000	2.10875e-08	1.000000
rad11	9.42696e-09	1.000000	1.74591e-08	1.000000
rad20	8.85995e-09	1.000000	1.64089e-08	1.000000
rad58	7.02684e-09	1.000000	1.30139e-08	1.000000
rad21	6.44036e-09	1.000000	1.19278e-08	1.000000

rad1	5.20722e-09	1.000000	9.64396e-09	1.000000
rad55	5.09072e-09	1.000000	9.42819e-09	1.000000
rad26	4.20933e-09	1.000000	7.79583e-09	1.000000
rad9	2.99555e-09	1.000000	5.54786e-09	1.000000
rad62	2.87052e-09	1.000000	5.31630e-09	1.000000
rad13	1.76048e-09	1.000000	3.26046e-09	1.000000
rad10	1.67792e-09	1.000000	3.10756e-09	1.000000
rad34	1.61613e-09	1.000000	2.99313e-09	1.000000
rad65	1.18778e-09	1.000000	2.19981e-09	1.000000
rad43	8.65747e-10	1.000000	1.60339e-09	1.000000
rad71	6.43383e-10	1.000000	1.19157e-09	1.000000
rad3	4.80873e-10	1.000000	8.90594e-10	1.000000
rad73	4.61855e-10	1.000000	8.55371e-10	1.000000
rad22	4.11535e-10	1.000000	7.62178e-10	1.000000
rad4	3.49284e-10	1.000000	6.46887e-10	1.000000
rad53	1.58329e-10	1.000000	2.93230e-10	1.000000
rad18	9.35507e-11	1.000000	1.73259e-10	1.000000
rad64	7.52860e-11	1.000000	1.39432e-10	1.000000
rad24	5.90713e-11	1.000000	1.09402e-10	1.000000
rad56	5.30242e-11	1.000000	9.82027e-11	1.000000
rad33	4.82848e-11	1.000000	8.94252e-11	1.000000
rad42	3.89850e-11	1.000000	7.22016e-11	1.000000
rad72	2.19172e-11	1.000000	4.05914e-11	1.000000
PAH8+H	1.44210e-11	1.000000	2.67082e-11	1.000000
rad68syn	1.08840e-11	1.000000	2.01575e-11	1.000000
rad41	1.00777e-11	1.000000	1.86643e-11	1.000000
rad68anti	7.27735e-12	1.000000	1.34779e-11	1.000000
rad61	4.76340e-12	1.000000	8.82197e-12	1.000000
rad25	3.17923e-12	1.000000	5.88804e-12	1.000000
rad40syn	2.46375e-12	1.000000	4.56296e-12	1.000000
rad40anti	1.52752e-12	1.000000	2.82901e-12	1.000000
rad27	1.08852e-12	1.000000	2.01597e-12	1.000000
rad14	9.49716e-13	1.000000	1.75891e-12	1.000000
rad12	8.62235e-13	1.000000	1.59689e-12	1.000000
rad15	8.10080e-13	1.000000	1.50030e-12	1.000000
rad31	1.84230e-14	1.000000	3.41200e-14	1.000000
rad8	3.09610e-15	1.000000	5.73409e-15	1.000000
rad47	3.45839e-17	1.000000	6.40506e-17	1.000000
rad5	2.52673e-17	1.000000	4.67960e-17	1.000000

0.100000000 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.11075e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.550758	0.550758	0.000000	0.000000
Indene+H	0.439880	0.990638	0.979160	0.979160
Ph+Allene	0.00299541	0.993633	0.00666769	0.985828
PhCCH+CH3	0.00208689	0.995720	0.00464536	0.990473
PhCHCCH2+H	0.00194533	0.997666	0.00433024	0.994803
PhCH2CCH+H	0.00132197	0.998988	0.00294267	0.997746
Ph+MeAc	0.000277422	0.999265	0.000617533	0.998363
PAH7+H	0.000179410	0.999444	0.000399362	0.998763
PhCCCH3+H	0.000149051	0.999593	0.000331783	0.999095
rad30	0.000123015	0.999716	0.000273827	0.999368
PAH9+H	0.000111856	0.999828	0.000248988	0.999617
rad38	4.25754e-05	0.999871	9.47715e-05	0.999712
rad39	4.04398e-05	0.999911	9.00178e-05	0.999802
rad19anti	2.71808e-05	0.999939	6.05037e-05	0.999863
rad35	2.39330e-05	0.999962	5.32742e-05	0.999916
PAH3+H	1.09204e-05	0.999973	2.43085e-05	0.999940
rad6	9.64781e-06	0.999983	2.14757e-05	0.999962
rad46	7.47607e-06	0.999991	1.66415e-05	0.999978
rad60syn	2.99531e-06	0.999994	6.66746e-06	0.999985
rad60anti	1.70295e-06	0.999995	3.79072e-06	0.999989
rad59	1.43239e-06	0.999997	3.18846e-06	0.999992
rad50	1.13182e-06	0.999998	2.51939e-06	0.999995
rad19syn	1.02408e-06	0.999999	2.27956e-06	0.999997
rad37	3.05032e-07	0.999999	6.78991e-07	0.999998
rad54	2.97981e-07	0.999999	6.63296e-07	0.999998
rad23	2.32394e-07	1.000000	5.17301e-07	0.999999
PhcycC3H3_A+H	1.70517e-07	1.000000	3.79567e-07	0.999999
rad67	1.11222e-07	1.000000	2.47577e-07	0.999999
rad51	9.56499e-08	1.000000	2.12914e-07	1.000000
rad45	6.44897e-08	1.000000	1.43552e-07	1.000000
rad52	5.20642e-08	1.000000	1.15893e-07	1.000000
rad70	3.72821e-08	1.000000	8.29888e-08	1.000000

PAH10+CH3	3.65178e-08	1.00000	8.12876e-08	1.00000
PAH1+H	3.43967e-08	1.00000	7.65661e-08	1.00000
rad58	2.34098e-08	1.00000	5.21095e-08	1.00000
rad55	1.32752e-08	1.00000	2.95502e-08	1.00000
rad28	1.05084e-08	1.00000	2.33914e-08	1.00000
rad7	8.84319e-09	1.00000	1.96847e-08	1.00000
rad11	8.29017e-09	1.00000	1.84537e-08	1.00000
rad20	7.95900e-09	1.00000	1.77165e-08	1.00000
rad2	7.76029e-09	1.00000	1.72742e-08	1.00000
rad62	5.85104e-09	1.00000	1.30242e-08	1.00000
rad36	5.83718e-09	1.00000	1.29934e-08	1.00000
rad21	5.11902e-09	1.00000	1.13948e-08	1.00000
rad34	4.94479e-09	1.00000	1.10070e-08	1.00000
rad65	2.98904e-09	1.00000	6.65352e-09	1.00000
rad9	2.66457e-09	1.00000	5.93125e-09	1.00000
rad13	1.89614e-09	1.00000	4.22076e-09	1.00000
rad1	1.59439e-09	1.00000	3.54907e-09	1.00000
rad26	1.51141e-09	1.00000	3.36435e-09	1.00000
rad43	1.33880e-09	1.00000	2.98014e-09	1.00000
rad10	1.15103e-09	1.00000	2.56215e-09	1.00000
rad53	5.87467e-10	1.00000	1.30768e-09	1.00000
rad71	4.06546e-10	1.00000	9.04960e-10	1.00000
rad73	3.37983e-10	1.00000	7.52341e-10	1.00000
rad22	2.89745e-10	1.00000	6.44964e-10	1.00000
rad18	2.70452e-10	1.00000	6.02018e-10	1.00000
rad56	2.37072e-10	1.00000	5.27714e-10	1.00000
rad64	2.33345e-10	1.00000	5.19419e-10	1.00000
rad3	1.68246e-10	1.00000	3.74512e-10	1.00000
rad4	1.25820e-10	1.00000	2.80072e-10	1.00000
rad42	1.03716e-10	1.00000	2.30868e-10	1.00000
rad24	4.56156e-11	1.00000	1.01539e-10	1.00000
rad68syn	4.37974e-11	1.00000	9.74916e-11	1.00000
rad33	3.99735e-11	1.00000	8.89798e-11	1.00000
PAH8+H	3.21973e-11	1.00000	7.16702e-11	1.00000
rad68anti	2.92971e-11	1.00000	6.52145e-11	1.00000
rad41	1.42195e-11	1.00000	3.16522e-11	1.00000
rad72	1.24769e-11	1.00000	2.77733e-11	1.00000
rad40syn	6.81734e-12	1.00000	1.51752e-11	1.00000
rad61	6.22612e-12	1.00000	1.38592e-11	1.00000
rad25	3.96679e-12	1.00000	8.82995e-12	1.00000
rad40anti	3.28076e-12	1.00000	7.30288e-12	1.00000
rad12	1.26378e-12	1.00000	2.81313e-12	1.00000
rad15	9.94298e-13	1.00000	2.21328e-12	1.00000
rad14	7.75156e-13	1.00000	1.72547e-12	1.00000
rad27	7.11384e-13	1.00000	1.58352e-12	1.00000
rad8	3.02719e-14	1.00000	6.73843e-14	1.00000
rad31	1.11272e-14	1.00000	2.47689e-14	1.00000
rad47	6.97143e-17	1.00000	1.55182e-16	1.00000
rad5	3.95620e-17	1.00000	8.80638e-17	1.00000

0.100000000 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.84330e-15 (1.00)	3.30080e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.626746	0.626746	0.00000	0.00000
Indene+H	0.361136	0.987882	0.967535	0.967535
Ph+Allene	0.00426349	0.992145	0.0114225	0.978958
PhCHCCH2+H	0.00242727	0.994573	0.00650299	0.985460
PhCH2CCH+H	0.00220918	0.996782	0.00591872	0.991379
PhCCH+CH3	0.00203502	0.998817	0.00545210	0.996831
Ph+MeAc	0.000271660	0.999089	0.000727815	0.997559
PAH7+H	0.000220978	0.999310	0.000592031	0.998151
PAH9+H	0.000166561	0.999476	0.000446240	0.998597
rad30	0.000155354	0.999632	0.000416215	0.999014
PhCCCH3+H	0.000116978	0.999748	0.000313400	0.999327
rad38	6.49776e-05	0.999813	0.000174084	0.999501
rad19anti	4.80929e-05	0.999862	0.000128848	0.999630
rad39	4.80649e-05	0.999910	0.000128773	0.999759
rad35	3.44018e-05	0.999944	9.21672e-05	0.999851
PAH3+H	2.21259e-05	0.999966	5.92783e-05	0.999910
rad46	1.27908e-05	0.999979	3.42684e-05	0.999944
rad60syn	4.87442e-06	0.999984	1.30593e-05	0.999957
rad6	3.14201e-06	0.999987	8.41790e-06	0.999966
rad60anti	2.81863e-06	0.999990	7.55150e-06	0.999973
rad59	2.76941e-06	0.999993	7.41965e-06	0.999981
rad50	2.59501e-06	0.999995	6.95241e-06	0.999988

rad19syn	1.86149e-06	0.999997	4.98719e-06	0.999993
rad54	5.79364e-07	0.999998	1.55220e-06	0.999994
PhcycC3H3_A+H	3.85582e-07	0.999998	1.03303e-06	0.999995
rad37	3.72107e-07	0.999998	9.96927e-07	0.999996
rad67	3.10218e-07	0.999999	8.31118e-07	0.999997
rad51	2.61245e-07	0.999999	6.99912e-07	0.999998
rad52	1.32192e-07	0.999999	3.54162e-07	0.999998
rad23	1.14194e-07	0.999999	3.05943e-07	0.999999
rad70	8.31912e-08	0.999999	2.22881e-07	0.999999
PAH10+CH3	7.90915e-08	0.999999	2.11897e-07	0.999999
PAH1+H	7.86155e-08	0.999999	2.10622e-07	0.999999
rad58	6.38293e-08	0.999999	1.71008e-07	0.999999
rad45	3.33424e-08	0.999999	8.93291e-08	0.999999
rad55	2.81639e-08	1.000000	7.54550e-08	1.000000
rad34	1.23004e-08	1.000000	3.29547e-08	1.000000
rad62	1.00350e-08	1.000000	2.68851e-08	1.000000
rad11	8.22519e-09	1.000000	2.20365e-08	1.000000
rad65	8.20575e-09	1.000000	2.19844e-08	1.000000
rad7	7.06648e-09	1.000000	1.89321e-08	1.000000
rad20	5.26048e-09	1.000000	1.40936e-08	1.000000
rad28	3.89577e-09	1.000000	1.04373e-08	1.000000
rad21	3.17552e-09	1.000000	8.50767e-09	1.000000
rad36	3.06761e-09	1.000000	8.21858e-09	1.000000
rad2	2.31560e-09	1.000000	6.20382e-09	1.000000
rad9	2.23486e-09	1.000000	5.98752e-09	1.000000
rad43	1.87108e-09	1.000000	5.01290e-09	1.000000
rad53	1.69103e-09	1.000000	4.53050e-09	1.000000
rad13	1.45958e-09	1.000000	3.91043e-09	1.000000
rad56	8.07016e-10	1.000000	2.16211e-09	1.000000
rad10	7.91607e-10	1.000000	2.12083e-09	1.000000
rad64	6.33860e-10	1.000000	1.69820e-09	1.000000
rad26	6.03534e-10	1.000000	1.61696e-09	1.000000
rad73	6.02761e-10	1.000000	1.61488e-09	1.000000
rad18	5.50992e-10	1.000000	1.47619e-09	1.000000
rad71	5.11163e-10	1.000000	1.36948e-09	1.000000
rad1	4.98011e-10	1.000000	1.33424e-09	1.000000
rad42	2.26206e-10	1.000000	6.06039e-10	1.000000
rad22	2.08535e-10	1.000000	5.58695e-10	1.000000
rad68syn	1.56578e-10	1.000000	4.19495e-10	1.000000
PAH8+H	1.33394e-10	1.000000	3.57381e-10	1.000000
rad68anti	1.04295e-10	1.000000	2.79421e-10	1.000000
rad3	6.19989e-11	1.000000	1.66104e-10	1.000000
rad4	4.71791e-11	1.000000	1.26399e-10	1.000000
rad24	3.33433e-11	1.000000	8.93314e-11	1.000000
rad40syn	2.68310e-11	1.000000	7.18841e-11	1.000000
rad33	2.53520e-11	1.000000	6.79216e-11	1.000000
rad41	2.50507e-11	1.000000	6.71145e-11	1.000000
rad61	1.86674e-11	1.000000	5.00127e-11	1.000000
rad40anti	1.28002e-11	1.000000	3.42936e-11	1.000000
rad72	8.77784e-12	1.000000	2.35171e-11	1.000000
rad25	3.69365e-12	1.000000	9.89580e-12	1.000000
rad12	1.57479e-12	1.000000	4.21908e-12	1.000000
rad15	1.41269e-12	1.000000	3.78480e-12	1.000000
rad14	5.05264e-13	1.000000	1.35367e-12	1.000000
rad27	3.40326e-13	1.000000	9.11781e-13	1.000000
rad8	9.89328e-14	1.000000	2.65055e-13	1.000000
rad31	6.76175e-15	1.000000	1.81157e-14	1.000000
rad47	1.86397e-16	1.000000	4.99384e-16	1.000000
rad5	7.43995e-17	1.000000	1.99327e-16	1.000000

0.100000000 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.52810e-14 (1.00)	4.76644e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.688080	0.688080	0.00000	0.00000
Indene+H	0.296942	0.985022	0.951980	0.951980
Ph+Allene	0.00550453	0.990527	0.0176472	0.969627
PhCH2CCH+H	0.00336238	0.993889	0.0107796	0.980407
PhCHCCH2+H	0.00286587	0.996755	0.00918782	0.989595
PhCCH+CH3	0.00187184	0.998627	0.00600102	0.995596
Ph+MeAc	0.000252910	0.998880	0.000810815	0.996406
PAH7+H	0.000251854	0.999131	0.000807430	0.997214
PAH9+H	0.000232610	0.999364	0.000745734	0.997960
rad30	0.000187145	0.999551	0.000599977	0.998560
rad38	9.27575e-05	0.999644	0.000297375	0.998857
PhCCCH3+H	8.81714e-05	0.999732	0.000282673	0.999140

rad19anti	7.76879e-05	0.999810	0.000249063	0.999389
rad39	5.27188e-05	0.999862	0.000169014	0.999558
rad35	4.67302e-05	0.999909	0.000149815	0.999708
PAH3+H	4.01934e-05	0.999949	0.000128858	0.999836
rad46	2.01559e-05	0.999970	6.46188e-05	0.999901
rad60syn	7.32142e-06	0.999977	2.34721e-05	0.999924
rad50	5.33039e-06	0.999982	1.70889e-05	0.999942
rad59	4.81769e-06	0.999987	1.54453e-05	0.999957
rad60anti	4.29552e-06	0.999991	1.37712e-05	0.999971
rad19syn	2.96361e-06	0.999994	9.50116e-06	0.999980
rad6	1.26670e-06	0.999996	4.06096e-06	0.999984
rad54	9.75361e-07	0.999997	3.12696e-06	0.999987
rad67	7.44380e-07	0.999997	2.38644e-06	0.999990
PhcycC3H3_A+H	7.41891e-07	0.999998	2.37846e-06	0.999992
rad51	6.49196e-07	0.999999	2.08129e-06	0.999994
rad37	4.66828e-07	0.999999	1.49662e-06	0.999996
rad52	2.99914e-07	0.999999	9.61507e-07	0.999997
PAH10+CH3	1.66838e-07	1.000000	5.34872e-07	0.999997
rad70	1.60114e-07	1.000000	5.13315e-07	0.999998
PAH1+H	1.54682e-07	1.000000	4.95901e-07	0.999998
rad58	1.48963e-07	1.000000	4.77568e-07	0.999999
rad23	5.99143e-08	1.000000	1.92082e-07	0.999999
rad55	5.10779e-08	1.000000	1.63753e-07	0.999999
rad34	2.60712e-08	1.000000	8.35830e-08	0.999999
rad65	2.02189e-08	1.000000	6.48208e-08	0.999999
rad45	1.77235e-08	1.000000	5.68206e-08	0.999999
rad62	1.51345e-08	1.000000	4.85204e-08	0.999999
rad11	6.99019e-09	1.000000	2.24102e-08	0.999999
rad7	6.25060e-09	1.000000	2.00391e-08	0.999999
rad53	3.99948e-09	1.000000	1.28221e-08	0.999999
rad20	3.18437e-09	1.000000	1.02089e-08	0.999999
rad43	2.42540e-09	1.000000	7.77569e-09	0.999999
rad56	2.20511e-09	1.000000	7.06947e-09	0.999999
rad73	2.02013e-09	1.000000	6.47642e-09	1.000000
rad21	1.87851e-09	1.000000	6.02240e-09	1.000000
rad9	1.80812e-09	1.000000	5.79675e-09	1.000000
rad28	1.73932e-09	1.000000	5.57617e-09	1.000000
rad36	1.65371e-09	1.000000	5.30171e-09	1.000000
rad71	1.62810e-09	1.000000	5.21959e-09	1.000000
rad64	1.45922e-09	1.000000	4.67817e-09	1.000000
rad13	8.62801e-10	1.000000	2.76609e-09	1.000000
rad2	7.19897e-10	1.000000	2.30795e-09	1.000000
rad18	6.99372e-10	1.000000	2.24215e-09	1.000000
PAH8+H	4.98537e-10	1.000000	1.59828e-09	1.000000
rad68syn	4.61484e-10	1.000000	1.47949e-09	1.000000
rad10	4.50984e-10	1.000000	1.44583e-09	1.000000
rad42	4.21779e-10	1.000000	1.35220e-09	1.000000
rad68anti	3.06086e-10	1.000000	9.81294e-10	1.000000
rad26	2.70567e-10	1.000000	8.67424e-10	1.000000
rad22	1.85348e-10	1.000000	5.94216e-10	1.000000
rad1	1.59008e-10	1.000000	5.09770e-10	1.000000
rad40syn	9.11326e-11	1.000000	2.92166e-10	1.000000
rad61	6.35768e-11	1.000000	2.03824e-10	1.000000
rad40anti	4.51445e-11	1.000000	1.44731e-10	1.000000
rad41	4.42291e-11	1.000000	1.41796e-10	1.000000
rad24	2.44029e-11	1.000000	7.82343e-11	1.000000
rad3	2.38978e-11	1.000000	7.66151e-11	1.000000
rad4	1.84063e-11	1.000000	5.90096e-11	1.000000
rad72	1.81073e-11	1.000000	5.80510e-11	1.000000
rad33	1.49396e-11	1.000000	4.78955e-11	1.000000
rad15	3.08399e-12	1.000000	9.88710e-12	1.000000
rad25	2.76409e-12	1.000000	8.86152e-12	1.000000
rad12	1.79619e-12	1.000000	5.75849e-12	1.000000
rad14	2.75910e-13	1.000000	8.84553e-13	1.000000
rad8	1.89603e-13	1.000000	6.07858e-13	1.000000
rad27	1.37992e-13	1.000000	4.42396e-13	1.000000
rad31	4.14046e-15	1.000000	1.32741e-14	1.000000
rad47	4.67261e-16	1.000000	1.49801e-15	1.000000
rad5	1.55301e-16	1.000000	4.97886e-16	1.000000

0.100000000 Pa, 1400.00000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	2.46691e-14 (1.00)	6.50155e-15 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.736450	0.736450	0.00000	0.00000
Indene+H	0.245658	0.982108	0.932114	0.932114

Ph+Allene	0.00660880	0.988717	0.0250761	0.957190
PhCH2CCH+H	0.00478135	0.993498	0.0181421	0.975332
PhCHCCH2+H	0.00325581	0.996754	0.0123537	0.987686
PhCCH+CH3	0.00165076	0.998405	0.00626356	0.993949
PAH9+H	0.000308685	0.998713	0.00117126	0.995121
PAH7+H	0.000272640	0.998986	0.00103449	0.996155
Ph+MeAc	0.000228412	0.999214	0.000866677	0.997022
rad30	0.000217655	0.999432	0.000825859	0.997848
rad38	0.000125540	0.999558	0.000476344	0.998324
rad19anti	0.000116512	0.999674	0.000442087	0.998766
PAH3+H	6.69986e-05	0.999741	0.000254216	0.999020
PhCCCH3+H	6.53671e-05	0.999807	0.000248025	0.999268
rad35	6.07430e-05	0.999867	0.000230480	0.999499
rad39	5.49335e-05	0.999922	0.000208437	0.999707
rad46	2.97227e-05	0.999952	0.000112778	0.999820
rad60syn	1.03332e-05	0.999962	3.92077e-05	0.999859
rad50	9.93663e-06	0.999972	3.77030e-05	0.999897
rad59	7.71558e-06	0.999980	2.92756e-05	0.999926
rad60anti	6.13930e-06	0.999986	2.32946e-05	0.999950
rad19syn	4.26629e-06	0.999990	1.61878e-05	0.999966
rad67	1.57768e-06	0.999992	5.98628e-06	0.999972
rad54	1.47005e-06	0.999993	5.57788e-06	0.999977
rad51	1.43589e-06	0.999995	5.44826e-06	0.999983
PhcycC3H3_A+H	1.26050e-06	0.999996	4.78278e-06	0.999988
rad6	6.42027e-07	0.999997	2.43608e-06	0.999990
rad37	6.13298e-07	0.999997	2.32707e-06	0.999992
rad52	6.09866e-07	0.999998	2.31405e-06	0.999995
PAH10+CH3	3.40207e-07	0.999998	1.29087e-06	0.999996
rad58	3.07505e-07	0.999999	1.16678e-06	0.999997
rad70	2.75611e-07	0.999999	1.04576e-06	0.999998
PAH1+H	2.72609e-07	0.999999	1.03437e-06	0.999999
rad55	8.21152e-08	0.999999	3.11574e-07	1.000000
rad34	4.89152e-08	0.999999	1.85601e-07	1.000000
rad65	4.41983e-08	0.999999	1.67704e-07	1.000000
rad23	3.36883e-08	0.999999	1.27825e-07	1.000000
rad62	2.07606e-08	0.999999	7.87729e-08	1.000000
rad45	9.69217e-09	0.999999	3.67755e-08	1.000000
rad53	8.12316e-09	0.999999	3.08221e-08	1.000000
rad73	6.66683e-09	0.999999	2.52963e-08	1.000000
rad71	5.89370e-09	0.999999	2.23628e-08	1.000000
rad56	5.07546e-09	0.999999	1.92581e-08	1.000000
rad7	4.71218e-09	0.999999	1.78797e-08	1.000000
rad11	4.68413e-09	0.999999	1.77732e-08	1.000000
rad43	3.05704e-09	0.999999	1.15995e-08	1.000000
rad64	2.94903e-09	0.999999	1.11897e-08	1.000000
rad20	1.95122e-09	0.999999	7.40360e-09	1.000000
PAH8+H	1.55843e-09	0.999999	5.91324e-09	1.000000
rad9	1.42146e-09	0.999999	5.39351e-09	1.000000
rad68syn	1.15844e-09	0.999999	4.39552e-09	1.000000
rad21	1.13805e-09	0.999999	4.31816e-09	1.000000
rad28	9.54417e-10	0.999999	3.62139e-09	1.000000
rad36	9.16387e-10	0.999999	3.47709e-09	1.000000
rad68anti	7.65429e-10	0.999999	2.90430e-09	1.000000
rad42	6.99098e-10	0.999999	2.65262e-09	1.000000
rad18	5.96604e-10	0.999999	2.26372e-09	1.000000
rad13	4.61065e-10	0.999999	1.74944e-09	1.000000
rad40syn	2.60676e-10	0.999999	9.89095e-10	1.000000
rad22	2.39437e-10	0.999999	9.08509e-10	1.000000
rad2	2.32299e-10	0.999999	8.81423e-10	1.000000
rad10	2.03192e-10	0.999999	7.70982e-10	1.000000
rad61	1.95042e-10	0.999999	7.40056e-10	1.000000
rad40anti	1.34057e-10	0.999999	5.08659e-10	1.000000
rad26	1.31582e-10	0.999999	4.99267e-10	1.000000
rad41	7.69913e-11	0.999999	2.92132e-10	1.000000
rad72	7.56797e-11	0.999999	2.87155e-10	1.000000
rad1	5.22285e-11	0.999999	1.98173e-10	1.000000
rad24	1.80066e-11	0.999999	6.83235e-11	1.000000
rad3	9.61212e-12	0.999999	3.64717e-11	1.000000
rad33	8.81712e-12	0.999999	3.34552e-11	1.000000
rad4	7.47468e-12	0.999999	2.83615e-11	1.000000
rad15	7.31736e-12	0.999999	2.77646e-11	1.000000
rad12	1.93302e-12	0.999999	7.33455e-12	1.000000
rad25	1.92228e-12	0.999999	7.29382e-12	1.000000
rad8	2.79520e-13	0.999999	1.06060e-12	1.000000
rad14	1.43410e-13	0.999999	5.44149e-13	1.000000
rad27	5.54810e-14	0.999999	2.10514e-13	1.000000
rad31	2.56273e-15	0.999999	9.72388e-15	1.000000
rad47	1.04163e-15	0.999999	3.95230e-15	1.000000
rad5	3.17799e-16	0.999999	1.20584e-15	1.000000

0.100000000 Pa, 1500.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.76908e-14 (1.00)		8.51560e-15 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.774067	0.774067	0.00000	0.00000
Indene+H	0.205064	0.979131	0.907633	0.907633
Ph+Allene	0.00752053	0.986652	0.0332865	0.940920
PhCH2CCH+H	0.00646728	0.993119	0.0286248	0.969544
PhCHCCH2+H	0.00361207	0.996731	0.0159873	0.985532
PhCCH+CH3	0.00141391	0.998145	0.00625811	0.991790
PAH9+H	0.000393106	0.998538	0.00173992	0.993530
PAH7+H	0.000286553	0.998824	0.00126831	0.994798
rad30	0.000246477	0.999071	0.00109093	0.995889
Ph+MeAc	0.000203619	0.999275	0.000901237	0.996790
rad19anti	0.000164236	0.999439	0.000726925	0.997517
rad38	0.000162735	0.999602	0.000720278	0.998237
PAH3+H	0.000104219	0.999706	0.000461281	0.998699
rad35	7.62583e-05	0.999782	0.000337526	0.999036
rad39	5.58574e-05	0.999838	0.000247230	0.999283
PhCCCH3+H	4.89419e-05	0.999887	0.000216621	0.999500
rad46	4.15240e-05	0.999928	0.000183789	0.999684
rad50	1.70779e-05	0.999945	7.55883e-05	0.999759
rad60syn	1.38816e-05	0.999959	6.14410e-05	0.999821
rad59	1.15663e-05	0.999971	5.11935e-05	0.999872
rad60anti	8.33860e-06	0.999979	3.69074e-05	0.999909
rad19syn	5.68981e-06	0.999985	2.51836e-05	0.999934
rad67	3.01390e-06	0.999988	1.33398e-05	0.999947
rad51	2.86623e-06	0.999991	1.26862e-05	0.999960
rad54	2.03378e-06	0.999993	9.00171e-06	0.999969
PhcycC3H3_A+H	1.94421e-06	0.999995	8.60524e-06	0.999978
rad52	1.12982e-06	0.999996	5.00070e-06	0.999983
rad37	8.38315e-07	0.999997	3.71046e-06	0.999986
PAH10+CH3	6.63461e-07	0.999997	2.93654e-06	0.999989
rad58	5.75068e-07	0.999998	2.54530e-06	0.999992
PAH1+H	4.44675e-07	0.999998	1.96817e-06	0.999994
rad70	4.35883e-07	0.999999	1.92926e-06	0.999996
rad6	3.86917e-07	0.999999	1.71253e-06	0.999998
rad55	1.20227e-07	0.999999	5.32135e-07	0.999998
rad65	8.71211e-08	0.999999	3.85606e-07	0.999998
rad34	8.35899e-08	0.999999	3.69976e-07	0.999999
rad62	2.65893e-08	1.000000	1.17687e-07	0.999999
rad23	2.03600e-08	1.000000	9.01153e-08	0.999999
rad73	1.91257e-08	1.000000	8.46521e-08	0.999999
rad71	1.86506e-08	1.000000	8.25492e-08	0.999999
rad53	1.46416e-08	1.000000	6.48052e-08	0.999999
rad56	1.02052e-08	1.000000	4.51692e-08	0.999999
rad45	5.46018e-09	1.000000	2.41673e-08	0.999999
rad64	5.41638e-09	1.000000	2.39734e-08	0.999999
PAH8+H	4.18114e-09	1.000000	1.85061e-08	0.999999
rad43	3.92998e-09	1.000000	1.73944e-08	0.999999
rad7	2.88168e-09	1.000000	1.27546e-08	0.999999
rad11	2.72898e-09	1.000000	1.20787e-08	0.999999
rad68syn	2.56027e-09	1.000000	1.13320e-08	0.999999
rad68anti	1.68597e-09	1.000000	7.46226e-09	0.999999
rad20	1.23135e-09	1.000000	5.45007e-09	0.999999
rad9	1.09705e-09	1.000000	4.85564e-09	0.999999
rad42	1.06267e-09	1.000000	4.70347e-09	0.999999
rad21	7.11298e-10	1.000000	3.14827e-09	0.999999
rad40syn	6.46827e-10	1.000000	2.86292e-09	0.999999
rad28	6.22104e-10	1.000000	2.75349e-09	0.999999
rad61	5.27043e-10	1.000000	2.33274e-09	0.999999
rad36	5.22859e-10	1.000000	2.31422e-09	0.999999
rad18	4.10774e-10	1.000000	1.81812e-09	0.999999
rad22	3.85720e-10	1.000000	1.70723e-09	0.999999
rad40anti	3.43931e-10	1.000000	1.52227e-09	0.999999
rad72	2.97769e-10	1.000000	1.31795e-09	0.999999
rad13	2.43269e-10	1.000000	1.07673e-09	0.999999
rad41	1.35382e-10	1.000000	5.99214e-10	0.999999
rad2	7.77007e-11	1.000000	3.43910e-10	0.999999
rad10	7.68961e-11	1.000000	3.40349e-10	0.999999
rad26	6.47069e-11	1.000000	2.86399e-10	0.999999
rad1	1.77089e-11	1.000000	7.83814e-11	0.999999
rad24	1.34246e-11	1.000000	5.94184e-11	0.999999
rad15	1.22668e-11	1.000000	5.42941e-11	0.999999
rad33	5.25695e-12	1.000000	2.32677e-11	0.999999
rad3	4.02468e-12	1.000000	1.78136e-11	0.999999

rad4	3.15557e-12	1.000000	1.39669e-11	0.999999
rad12	1.99736e-12	1.000000	8.84050e-12	0.999999
rad25	1.32673e-12	1.000000	5.87225e-12	0.999999
rad8	3.57812e-13	1.000000	1.58371e-12	0.999999
rad14	7.65028e-14	1.000000	3.38608e-13	0.999999
rad27	2.35162e-14	1.000000	1.04085e-13	0.999999
rad47	2.08623e-15	1.000000	9.23382e-15	0.999999
rad31	1.60869e-15	1.000000	7.12019e-15	0.999999
rad5	5.62003e-16	1.000000	2.48748e-15	0.999999

0.100000000 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	1.49145e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837640	0.837640	0.000000	0.000000
Indene+H	0.133063	0.970703	0.819557	0.819557
PhCH2CCH+H	0.0118057	0.982509	0.0727128	0.892270
Ph+Allene	0.00950101	0.992010	0.0585181	0.950788
PhCHCCH2+H	0.00446803	0.996478	0.0275192	0.978307
PhCCH+CH3	0.000861575	0.997339	0.00530657	0.983614
PAH9+H	0.000556662	0.997896	0.00342856	0.987042
rad30	0.000325000	0.998221	0.00200172	0.989044
rad19anti	0.000321502	0.998542	0.00198018	0.991024
rad38	0.000287118	0.998830	0.00176840	0.992793
PAH7+H	0.000286352	0.999116	0.00176368	0.994556
PAH3+H	0.000275297	0.999391	0.00169559	0.996252
Ph+MeAc	0.000167693	0.999559	0.00103285	0.997285
rad35	0.000110068	0.999669	0.000677922	0.997963
rad46	7.52958e-05	0.999744	0.000463758	0.998426
rad39	5.82522e-05	0.999803	0.000358784	0.998785
rad50	4.36703e-05	0.999846	0.000268971	0.999054
PhCCCH3+H	3.20449e-05	0.999878	0.000197369	0.999251
rad59	2.75338e-05	0.999906	0.000169585	0.999421
rad60syn	2.64499e-05	0.999932	0.000162908	0.999584
rad60anti	1.77452e-05	0.999950	0.000109295	0.999693
rad51	1.06400e-05	0.999961	6.55333e-05	0.999759
rad67	1.00267e-05	0.999971	6.17561e-05	0.999821
rad19syn	8.12887e-06	0.999979	5.00669e-05	0.999871
PhcycC3H3_A+H	4.33061e-06	0.999983	2.66729e-05	0.999897
rad52	3.62750e-06	0.999987	2.23423e-05	0.999920
rad54	3.10492e-06	0.999990	1.91237e-05	0.999939
PAH10+CH3	2.60350e-06	0.999992	1.60353e-05	0.999955
rad58	2.01824e-06	0.999994	1.24306e-05	0.999967
rad37	1.70777e-06	0.999996	1.05184e-05	0.999978
PAH1+H	1.10701e-06	0.999997	6.81822e-06	0.999985
rad70	1.04855e-06	0.999998	6.45815e-06	0.999991
rad65	3.08505e-07	0.999999	1.90013e-06	0.999993
rad34	2.42037e-07	0.999999	1.49074e-06	0.999994
rad55	2.29023e-07	0.999999	1.41059e-06	0.999996
rad71	1.98892e-07	0.999999	1.22501e-06	0.999997
rad73	1.58935e-07	0.999999	9.78902e-07	0.999998
rad6	9.93780e-08	1.000000	6.12084e-07	0.999999
rad53	4.44526e-08	1.000000	2.73790e-07	0.999999
rad62	4.01002e-08	1.000000	2.46983e-07	0.999999
rad56	3.58132e-08	1.000000	2.20579e-07	0.999999
PAH8+H	2.45113e-08	1.000000	1.50969e-07	1.000000
rad64	1.93137e-08	1.000000	1.18956e-07	1.000000
rad68syn	1.20242e-08	1.000000	7.40590e-08	1.000000
rad43	8.60802e-09	1.000000	5.30180e-08	1.000000
rad68anti	7.79813e-09	1.000000	4.80298e-08	1.000000
rad72	6.91422e-09	1.000000	4.25857e-08	1.000000
rad23	5.37862e-09	1.000000	3.31277e-08	1.000000
rad40syn	3.52984e-09	1.000000	2.17408e-08	1.000000
rad61	3.50758e-09	1.000000	2.16037e-08	1.000000
rad42	2.39507e-09	1.000000	1.47516e-08	1.000000
rad40anti	2.10427e-09	1.000000	1.29605e-08	1.000000
rad22	6.12329e-10	1.000000	3.77142e-09	1.000000
rad41	5.64541e-10	1.000000	3.47709e-09	1.000000
rad45	5.06990e-10	1.000000	3.12263e-09	1.000000
rad7	2.75953e-10	1.000000	1.69964e-09	1.000000
rad11	2.51769e-10	1.000000	1.55068e-09	1.000000
rad28	2.15046e-10	1.000000	1.32450e-09	1.000000
rad9	1.37082e-10	1.000000	8.44306e-10	1.000000
rad20	1.26308e-10	1.000000	7.77950e-10	1.000000
rad36	8.58049e-11	1.000000	5.28485e-10	1.000000
rad21	6.65311e-11	1.000000	4.09775e-10	1.000000

rad18	5.81689e-11	1.000000	3.58271e-10	1.000000
rad13	1.40740e-11	1.000000	8.66838e-11	1.000000
rad15	6.79054e-12	1.000000	4.18239e-11	1.000000
rad26	5.93087e-12	1.000000	3.65291e-11	1.000000
rad10	2.77349e-12	1.000000	1.70824e-11	1.000000
rad24	1.70134e-12	1.000000	1.04788e-11	1.000000
rad2	1.31116e-12	1.000000	8.07560e-12	1.000000
rad12	4.26946e-13	1.000000	2.62963e-12	1.000000
rad33	3.32963e-13	1.000000	2.05077e-12	1.000000
rad1	3.20559e-13	1.000000	1.97437e-12	1.000000
rad8	1.74118e-13	1.000000	1.07242e-12	1.000000
rad25	1.29130e-13	1.000000	7.95328e-13	1.000000
rad3	8.68831e-14	1.000000	5.35125e-13	1.000000
rad4	5.50225e-14	1.000000	3.38892e-13	1.000000
rad14	5.22479e-15	1.000000	3.21803e-14	1.000000
rad47	2.45011e-15	1.000000	1.50906e-14	1.000000
rad5	1.39474e-15	1.000000	8.59042e-15	1.000000
rad27	9.13034e-16	1.000000	5.62351e-15	1.000000

0.10000000 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.47588e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866428	0.866428	0.00000	0.00000
Indene+H	0.0943885	0.960816	0.706650	0.706650
PhCH2CCH+H	0.0189358	0.979752	0.141765	0.848415
Ph+Allene	0.0101088	0.989861	0.0756810	0.924096
PhCHCCH2+H	0.00579099	0.995652	0.0433549	0.967451
PAH9+H	0.000765254	0.996417	0.00572916	0.973180
PhCCH+CH3	0.000550349	0.996968	0.00412025	0.977300
PAH3+H	0.000526246	0.997494	0.00393980	0.981240
rad19anti	0.000486606	0.997981	0.00364303	0.984883
rad38	0.000411541	0.998392	0.00308105	0.987964
rad30	0.000378289	0.998770	0.00283210	0.990796
PAH7+H	0.000350390	0.999121	0.00262323	0.993420
Ph+MeAc	0.000164747	0.999286	0.00123340	0.994653
rad35	0.000155515	0.999441	0.00116428	0.995817
rad46	0.000120111	0.999561	0.000899222	0.996716
rad50	9.58313e-05	0.999657	0.000717451	0.997434
rad39	7.87072e-05	0.999736	0.000589250	0.998023
rad59	4.92026e-05	0.999785	0.000368361	0.998391
rad60syn	4.01110e-05	0.999825	0.000300295	0.998692
PhCCCH3+H	3.61303e-05	0.999861	0.000270493	0.998962
rad51	2.92805e-05	0.999890	0.000219212	0.999181
rad60anti	2.75040e-05	0.999918	0.000205912	0.999387
rad67	2.43946e-05	0.999942	0.000182633	0.999570
rad19syn	1.17088e-05	0.999954	8.76593e-05	0.999658
rad52	8.84644e-06	0.999963	6.62298e-05	0.999724
PAH10+CH3	7.72787e-06	0.999971	5.78555e-05	0.999782
PhcycC3H3_A+H	7.44624e-06	0.999978	5.57471e-05	0.999838
rad58	5.03691e-06	0.999983	3.77094e-05	0.999875
rad54	4.34723e-06	0.999987	3.25460e-05	0.999908
rad37	3.43691e-06	0.999991	2.57308e-05	0.999934
PAH1+H	2.74950e-06	0.999994	2.05844e-05	0.999954
rad70	2.09357e-06	0.999996	1.56737e-05	0.999970
rad71	1.07241e-06	0.999997	8.02872e-06	0.999978
rad65	8.19753e-07	0.999998	6.13717e-06	0.999984
rad73	7.44791e-07	0.999998	5.57596e-06	0.999990
rad34	5.52333e-07	0.999999	4.13510e-06	0.999994
rad55	3.53338e-07	0.999999	2.64531e-06	0.999996
PAH8+H	1.14552e-07	0.999999	8.57608e-07	0.999997
rad53	9.72583e-08	0.999999	7.28135e-07	0.999998
rad56	9.21454e-08	1.000000	6.89856e-07	0.999999
rad62	6.00549e-08	1.000000	4.49607e-07	0.999999
rad64	5.58028e-08	1.000000	4.17773e-07	0.999999
rad72	4.35090e-08	1.000000	3.25735e-07	1.000000
rad68syn	4.11215e-08	1.000000	3.07861e-07	1.000000
rad68anti	2.65308e-08	1.000000	1.98626e-07	1.000000
rad43	2.20261e-08	1.000000	1.64901e-07	1.000000
rad61	1.54190e-08	1.000000	1.15436e-07	1.000000
rad40syn	1.44086e-08	1.000000	1.07871e-07	1.000000
rad6	1.07356e-08	1.000000	8.03729e-08	1.000000
rad40anti	9.08459e-09	1.000000	6.80127e-08	1.000000
rad42	4.93642e-09	1.000000	3.69570e-08	1.000000
rad23	2.14822e-09	1.000000	1.60829e-08	1.000000
rad41	1.99354e-09	1.000000	1.49248e-08	1.000000

rad45	1.68468e-10	1.000000	1.26126e-09	1.00000
rad22	1.58466e-10	1.000000	1.18637e-09	1.00000
rad9	6.96842e-11	1.000000	5.21698e-10	1.00000
rad11	5.39918e-11	1.000000	4.04215e-10	1.00000
rad20	5.29643e-11	1.000000	3.96523e-10	1.00000
rad7	4.25064e-11	1.000000	3.18229e-10	1.00000
rad28	3.56372e-11	1.000000	2.66802e-10	1.00000
rad36	2.93258e-11	1.000000	2.19551e-10	1.00000
rad21	2.72336e-11	1.000000	2.03887e-10	1.00000
rad18	1.62619e-11	1.000000	1.21746e-10	1.00000
rad15	3.64691e-12	1.000000	2.73030e-11	1.00000
rad13	3.15321e-12	1.000000	2.36068e-11	1.00000
rad24	9.49358e-13	1.000000	7.10747e-12	1.00000
rad26	7.03906e-13	1.000000	5.26987e-12	1.00000
rad12	3.72965e-13	1.000000	2.79224e-12	1.00000
rad10	2.59117e-13	1.000000	1.93991e-12	1.00000
rad8	2.00224e-13	1.000000	1.49900e-12	1.00000
rad2	1.17527e-13	1.000000	8.79882e-13	1.00000
rad33	1.02786e-13	1.000000	7.69521e-13	1.00000
rad25	5.51574e-14	1.000000	4.12942e-13	1.00000
rad1	3.02965e-14	1.000000	2.26818e-13	1.00000
rad3	1.48384e-14	1.000000	1.11089e-13	1.00000
rad4	9.46976e-15	1.000000	7.08964e-14	1.00000
rad47	6.72777e-15	1.000000	5.03682e-14	1.00000
rad5	1.94240e-15	1.000000	1.45420e-14	1.00000
rad14	1.44057e-15	1.000000	1.07850e-14	1.00000
rad27	2.37395e-16	1.000000	1.77729e-15	1.00000

0.100000000 Pa, 2250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	4.00875e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.878204	0.878204	0.00000	0.00000
Indene+H	0.0703002	0.948504	0.577195	0.577195
PhCH2CCH+H	0.0277459	0.976250	0.227806	0.805001
Ph+Allene	0.0105974	0.986847	0.0870089	0.892010
PhCHCCH2+H	0.00765656	0.994504	0.0628636	0.954874
PAH9+H	0.000941858	0.995446	0.00773305	0.962607
PAH3+H	0.000857236	0.996303	0.00703827	0.969645
rad19anti	0.000629228	0.996932	0.00516623	0.974811
rad38	0.000525524	0.997458	0.00431477	0.979126
PAH7+H	0.000454503	0.997912	0.00373166	0.982857
rad30	0.000417263	0.998330	0.00342591	0.986283
PhCCH+CH3	0.000383696	0.998713	0.00315031	0.989434
rad35	0.000200865	0.998914	0.00164918	0.991083
Ph+MeAc	0.000197882	0.999112	0.00162470	0.992708
rad50	0.000170942	0.999283	0.00140351	0.994111
rad46	0.000166541	0.999450	0.00136737	0.995478
rad39	0.000118807	0.999568	0.000975456	0.996454
rad59	7.57691e-05	0.999644	0.000622097	0.997076
rad51	6.22699e-05	0.999706	0.000511262	0.997587
rad60syn	5.44510e-05	0.999761	0.000447066	0.998034
PhCCCH3+H	5.15901e-05	0.999812	0.000423576	0.998458
rad67	4.61782e-05	0.999859	0.000379142	0.998837
rad60anti	3.79865e-05	0.999897	0.000311885	0.999149
PAH10+CH3	1.71933e-05	0.999914	0.000141165	0.999290
rad52	1.70846e-05	0.999931	0.000140272	0.999430
rad19syn	1.63932e-05	0.999947	0.000134595	0.999565
PhcycC3H3_A+H	1.10277e-05	0.999958	9.05422e-05	0.999656
rad58	1.00660e-05	0.999968	8.26458e-05	0.999738
PAH1+H	5.96738e-06	0.999974	4.89947e-05	0.999787
rad37	5.72356e-06	0.999980	4.69929e-05	0.999834
rad54	5.39701e-06	0.999986	4.43117e-05	0.999878
rad71	3.95806e-06	0.999989	3.24973e-05	0.999911
rad70	3.69404e-06	0.999993	3.03297e-05	0.999941
rad73	2.41495e-06	0.999996	1.98278e-05	0.999961
rad65	1.68529e-06	0.999997	1.38369e-05	0.999975
rad34	1.08371e-06	0.999998	8.89775e-06	0.999984
rad55	4.74070e-07	0.999999	3.89232e-06	0.999988
PAH8+H	3.91963e-07	0.999999	3.21818e-06	0.999991
rad72	2.09535e-07	0.999999	1.72038e-06	0.999993
rad56	1.86176e-07	1.000000	1.52858e-06	0.999994
rad53	1.73187e-07	1.000000	1.42194e-06	0.999996
rad64	1.33619e-07	1.000000	1.09707e-06	0.999997
rad68syn	1.10267e-07	1.000000	9.05336e-07	0.999998
rad62	9.48283e-08	1.000000	7.78580e-07	0.999998

rad68anti	7.08818e-08	1.00000	5.81970e-07	0.999999
rad43	4.82402e-08	1.00000	3.96072e-07	0.999999
rad61	4.62531e-08	1.00000	3.79757e-07	1.000000
rad40syn	4.43250e-08	1.00000	3.63927e-07	1.000000
rad40anti	2.91761e-08	1.00000	2.39548e-07	1.000000
rad42	1.00373e-08	1.00000	8.24103e-08	1.000000
rad41	5.35215e-09	1.00000	4.39434e-08	1.000000
rad6	1.30595e-09	1.00000	1.07224e-08	1.000000
rad23	5.40661e-10	1.00000	4.43906e-09	1.000000
rad45	6.50814e-11	1.00000	5.34346e-10	1.000000
rad22	4.05038e-11	1.00000	3.32554e-10	1.000000
rad9	3.61776e-11	1.00000	2.97034e-10	1.000000
rad20	2.60597e-11	1.00000	2.13962e-10	1.000000
rad11	1.63497e-11	1.00000	1.34238e-10	1.000000
rad21	1.30033e-11	1.00000	1.06763e-10	1.000000
rad36	1.15977e-11	1.00000	9.52217e-11	1.000000
rad7	9.49393e-12	1.00000	7.79492e-11	1.000000
rad18	6.17804e-12	1.00000	5.07243e-11	1.000000
rad28	5.25979e-12	1.00000	4.31851e-11	1.000000
rad15	2.11926e-12	1.00000	1.74001e-11	1.000000
rad13	8.56951e-13	1.00000	7.03593e-12	1.000000
rad24	5.70002e-13	1.00000	4.67996e-12	1.000000
rad12	3.05352e-13	1.00000	2.50707e-12	1.000000
rad26	2.31843e-13	1.00000	1.90353e-12	1.000000
rad8	2.16859e-13	1.00000	1.78050e-12	1.000000
rad10	7.42386e-14	1.00000	6.09531e-13	1.000000
rad33	3.63734e-14	1.00000	2.98641e-13	1.000000
rad25	2.84548e-14	1.00000	2.33626e-13	1.000000
rad2	1.72128e-14	1.00000	1.41324e-13	1.000000
rad47	1.41378e-14	1.00000	1.16077e-13	1.000000
rad1	4.85456e-15	1.00000	3.98580e-14	1.000000
rad3	3.21730e-15	1.00000	2.64154e-14	1.000000
rad5	2.12575e-15	1.00000	1.74533e-14	1.000000
rad4	2.04723e-15	1.00000	1.68086e-14	1.000000
rad14	5.33726e-16	1.00000	4.38212e-15	1.000000
rad27	1.32635e-16	1.00000	1.08899e-15	1.000000

0.100000000 Pa, 2500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.32896e-13 (1.00)	6.40311e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.879843	0.879843	0.00000	0.00000
Indene+H	0.0541638	0.934007	0.450777	0.450777
PhCH2CCH+H	0.0379681	0.971975	0.315989	0.766766
Ph+Allene	0.0112444	0.983219	0.0935810	0.860347
PhCHCCH2+H	0.00999485	0.993214	0.0831818	0.943529
PAH3+H	0.00124356	0.994458	0.0103495	0.953878
PAH9+H	0.00106545	0.995523	0.00886715	0.962745
rad19anti	0.000731028	0.996254	0.00608395	0.968829
rad38	0.000614393	0.996869	0.00511327	0.973943
PAH7+H	0.000586817	0.997455	0.00488377	0.978826
rad30	0.000442203	0.997898	0.00368022	0.982507
PhCCH+CH3	0.000309130	0.998207	0.00257273	0.985079
rad50	0.000261678	0.998468	0.00217781	0.987257
Ph+MeAc	0.000256973	0.998725	0.00213865	0.989396
rad35	0.000242192	0.998968	0.00201564	0.991411
rad46	0.000207878	0.999175	0.00173006	0.993142
rad39	0.000175772	0.999351	0.00146286	0.994604
rad51	0.000109649	0.999461	0.000912552	0.995517
rad59	0.000104825	0.999566	0.000872406	0.996389
rad67	7.34547e-05	0.999639	0.000611325	0.997001
PhCCCH3+H	7.22810e-05	0.999711	0.000601557	0.997602
rad60syn	6.81857e-05	0.999780	0.000567474	0.998170
rad60anti	4.82378e-05	0.999828	0.000401457	0.998571
PAH10+CH3	3.08999e-05	0.999859	0.000257163	0.998828
rad52	2.78078e-05	0.999887	0.000231430	0.999060
rad19syn	2.34810e-05	0.999910	0.000195420	0.999255
rad58	1.71635e-05	0.999927	0.000142842	0.999398
PhcycC3H3_A+H	1.49440e-05	0.999942	0.000124371	0.999522
PAH1+H	1.13017e-05	0.999953	9.40584e-05	0.999616
rad71	1.08633e-05	0.999964	9.04095e-05	0.999707
rad37	8.12868e-06	0.999972	6.76507e-05	0.999775
rad54	6.28002e-06	0.999979	5.22653e-05	0.999827
rad70	5.97099e-06	0.999985	4.96934e-05	0.999876
rad73	5.95742e-06	0.999991	4.95805e-05	0.999926
rad65	2.87596e-06	0.999994	2.39351e-05	0.999950

rad34	1.90625e-06	0.999995	1.58647e-05	0.999966
PAH8+H	1.06524e-06	0.999997	8.86546e-06	0.999975
rad72	7.14999e-07	0.999997	5.95056e-06	0.999981
rad55	5.87554e-07	0.999998	4.88990e-06	0.999986
rad56	3.21874e-07	0.999998	2.67879e-06	0.999988
rad64	2.70857e-07	0.999998	2.25420e-06	0.999991
rad53	2.70821e-07	0.999999	2.25390e-06	0.999993
rad68syn	2.47505e-07	0.999999	2.05985e-06	0.999995
rad68anti	1.58684e-07	0.999999	1.32064e-06	0.999996
rad62	1.55149e-07	0.999999	1.29122e-06	0.999997
rad40syn	1.10734e-07	0.999999	9.21584e-07	0.999998
rad61	1.05680e-07	0.999999	8.79521e-07	0.999999
rad43	8.79693e-08	1.000000	7.32122e-07	1.000000
rad40anti	7.53439e-08	1.000000	6.27048e-07	1.000000
rad42	1.97241e-08	1.000000	1.64153e-07	1.000000
rad41	1.13877e-08	1.000000	9.47736e-08	1.000000
rad6	2.34637e-10	1.000000	1.95276e-09	1.000000
rad23	1.63132e-10	1.000000	1.35766e-09	1.000000
rad45	2.82929e-11	1.000000	2.35467e-10	1.000000
rad9	1.92348e-11	1.000000	1.60081e-10	1.000000
rad20	1.43961e-11	1.000000	1.19811e-10	1.000000
rad22	1.37889e-11	1.000000	1.14758e-10	1.000000
rad21	6.95082e-12	1.000000	5.78480e-11	1.000000
rad11	6.28039e-12	1.000000	5.22683e-11	1.000000
rad36	5.14014e-12	1.000000	4.27786e-11	1.000000
rad18	2.77896e-12	1.000000	2.31278e-11	1.000000
rad7	2.65874e-12	1.000000	2.21273e-11	1.000000
rad15	1.25930e-12	1.000000	1.04805e-11	1.000000
rad28	1.23676e-12	1.000000	1.02929e-11	1.000000
rad24	3.60418e-13	1.000000	2.99957e-12	1.000000
rad13	2.74642e-13	1.000000	2.28570e-12	1.000000
rad12	2.40047e-13	1.000000	1.99778e-12	1.000000
rad8	2.25268e-13	1.000000	1.87478e-12	1.000000
rad26	1.27310e-13	1.000000	1.05953e-12	1.000000
rad10	4.08973e-14	1.000000	3.40367e-13	1.000000
rad47	2.44568e-14	1.000000	2.03541e-13	1.000000
rad25	1.71227e-14	1.000000	1.42503e-13	1.000000
rad33	1.46763e-14	1.000000	1.22143e-13	1.000000
rad2	5.09270e-15	1.000000	4.23838e-14	1.000000
rad5	2.19537e-15	1.000000	1.82709e-14	1.000000
rad1	1.65834e-15	1.000000	1.38015e-14	1.000000
rad3	8.77774e-16	1.000000	7.30524e-15	1.000000
rad4	5.50379e-16	1.000000	4.58051e-15	1.000000
rad14	2.68250e-16	1.000000	2.23250e-15	1.000000
rad27	1.07421e-16	1.000000	8.94005e-16	1.000000

0.100000000 Pa, 2750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.05113e-13 (1.00)	1.00487e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.875189	0.875189	0.00000	0.00000
PhCH2CCH+H	0.0492371	0.924426	0.394492	0.394492
Indene+H	0.0427171	0.967143	0.342254	0.736746
PhCHCCH2+H	0.0126523	0.979795	0.101371	0.838117
Ph+Allene	0.0121360	0.991931	0.0972347	0.935352
PAH3+H	0.00165412	0.993586	0.0132530	0.948605
PAH9+H	0.00112924	0.994715	0.00904761	0.957652
rad19anti	0.000790044	0.995505	0.00632991	0.963982
PAH7+H	0.000729333	0.996234	0.00584349	0.969826
rad38	0.000670522	0.996905	0.00537228	0.975198
rad30	0.000454283	0.997359	0.00363976	0.978838
rad50	0.000356822	0.997716	0.00285889	0.981697
Ph+MeAc	0.000331297	0.998047	0.00265438	0.984351
PhCCH+CH3	0.000293338	0.998340	0.00235025	0.986701
rad35	0.000276886	0.998617	0.00221844	0.988920
rad39	0.000242690	0.998860	0.00194445	0.990864
rad46	0.000239377	0.999099	0.00191791	0.992782
rad51	0.000167553	0.999267	0.00134245	0.994125
rad59	0.000133898	0.999401	0.00107280	0.995197
rad67	0.000103303	0.999504	0.000827674	0.996025
PhCCCH3+H	9.47597e-05	0.999599	0.000759224	0.996784
rad60syn	8.03400e-05	0.999679	0.000643692	0.997428
rad60anti	5.74980e-05	0.999737	0.000460680	0.997889
PAH10+CH3	4.75540e-05	0.999784	0.000381007	0.998270
rad52	3.97966e-05	0.999824	0.000318854	0.998588
rad19syn	3.43481e-05	0.999859	0.000275200	0.998864

rad58	2.60271e-05	0.999885	0.000208532	0.999072
rad71	2.39123e-05	0.999908	0.000191587	0.999264
PhcycC3H3_A+H	1.91124e-05	0.999928	0.000153131	0.999417
PAH1+H	1.89313e-05	0.999946	0.000151679	0.999569
rad73	1.19964e-05	0.999958	9.61165e-05	0.999665
rad37	1.02458e-05	0.999969	8.20902e-05	0.999747
rad70	8.97457e-06	0.999978	7.19051e-05	0.999819
rad54	7.04852e-06	0.999985	5.64734e-05	0.999875
rad65	4.27357e-06	0.999989	3.42402e-05	0.999909
rad34	3.06724e-06	0.999992	2.45750e-05	0.999934
PAH8+H	2.42508e-06	0.999995	1.94300e-05	0.999953
rad72	1.88026e-06	0.999996	1.50649e-05	0.999968
rad55	6.94535e-07	0.999997	5.56468e-06	0.999974
rad56	5.00307e-07	0.999998	4.00851e-06	0.999978
rad68syn	4.83458e-07	0.999998	3.87351e-06	0.999982
rad64	4.76900e-07	0.999999	3.82097e-06	0.999986
rad53	3.88200e-07	0.999999	3.11030e-06	0.999989
rad68anti	3.09361e-07	0.999999	2.47863e-06	0.999991
rad62	2.47711e-07	0.999999	1.98468e-06	0.999993
rad40syn	2.35491e-07	1.000000	1.88678e-06	0.999995
rad61	1.98411e-07	1.000000	1.58969e-06	0.999997
rad40anti	1.64464e-07	1.000000	1.31770e-06	0.999998
rad43	1.38326e-07	1.000000	1.10828e-06	0.999999
rad42	3.59374e-08	1.000000	2.87934e-07	1.000000
rad41	2.03340e-08	1.000000	1.62918e-07	1.000000
rad23	6.03162e-11	1.000000	4.83260e-10	1.000000
rad6	5.52654e-11	1.000000	4.42792e-10	1.000000
rad45	1.34650e-11	1.000000	1.07883e-10	1.000000
rad9	1.05171e-11	1.000000	8.42638e-11	1.000000
rad20	8.68898e-12	1.000000	6.96170e-11	1.000000
rad22	5.65500e-12	1.000000	4.53084e-11	1.000000
rad21	4.05115e-12	1.000000	3.24582e-11	1.000000
rad11	2.92941e-12	1.000000	2.34708e-11	1.000000
rad36	2.48514e-12	1.000000	1.99112e-11	1.000000
rad18	1.40174e-12	1.000000	1.12308e-11	1.000000
rad7	8.91102e-13	1.000000	7.13960e-12	1.000000
rad15	7.59296e-13	1.000000	6.08356e-12	1.000000
rad28	4.44719e-13	1.000000	3.56313e-12	1.000000
rad24	2.36701e-13	1.000000	1.89647e-12	1.000000
rad8	2.27049e-13	1.000000	1.81914e-12	1.000000
rad12	1.84640e-13	1.000000	1.47935e-12	1.000000
rad13	1.03019e-13	1.000000	8.25395e-13	1.000000
rad26	7.86890e-14	1.000000	6.30464e-13	1.000000
rad47	3.65966e-14	1.000000	2.93216e-13	1.000000
rad10	2.68747e-14	1.000000	2.15323e-13	1.000000
rad25	1.16296e-14	1.000000	9.31778e-14	1.000000
rad33	6.71481e-15	1.000000	5.37997e-14	1.000000
rad2	2.51595e-15	1.000000	2.01581e-14	1.000000
rad5	2.18309e-15	1.000000	1.74911e-14	1.000000
rad1	9.46246e-16	1.000000	7.58142e-15	1.000000
rad3	2.97688e-16	1.000000	2.38510e-15	1.000000
rad4	1.82081e-16	1.000000	1.45885e-15	1.000000
rad14	1.77662e-16	1.000000	1.42345e-15	1.000000
rad27	9.32227e-17	1.000000	7.46909e-16	1.000000

0.100000000 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15309e-12 (1.00)	1.53862e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866566	0.866566	0.00000	0.00000
PhCH2CCH+H	0.0611725	0.927738	0.458447	0.458447
Indene+H	0.0342672	0.962006	0.256810	0.715257
PhCHCCH2+H	0.0154790	0.977485	0.116005	0.831262
Ph+Allene	0.0132660	0.990751	0.0994201	0.930682
PAH3+H	0.00205938	0.992810	0.0154337	0.946116
PAH9+H	0.00113813	0.993948	0.00852950	0.954645
PAH7+H	0.000866136	0.994814	0.00649110	0.961136
rad19anti	0.000812998	0.995627	0.00609288	0.967229
rad38	0.000693215	0.996321	0.00519518	0.972424
rad30	0.000455427	0.996776	0.00341312	0.975838
rad50	0.000445147	0.997221	0.00333608	0.979174
Ph+MeAc	0.000411378	0.997633	0.00308300	0.982257
PhCCH+CH3	0.000319072	0.997952	0.00239123	0.984648
rad39	0.000311351	0.998263	0.00233337	0.986981
rad35	0.000303822	0.998567	0.00227694	0.989258
rad46	0.000258929	0.998826	0.00194050	0.991199

rad51	0.000229661	0.999055	0.00172116	0.992920
rad59	0.000160966	0.999216	0.00120633	0.994126
rad67	0.000132859	0.999349	0.000995686	0.995122
PhCCCH3+H	0.000117527	0.999467	0.000880786	0.996003
rad60syn	9.03378e-05	0.999557	0.000677021	0.996680
PAH10+CH3	6.53522e-05	0.999622	0.000489771	0.997169
rad60anti	6.52879e-05	0.999688	0.000489289	0.997659
rad52	5.15998e-05	0.999739	0.000386706	0.998045
rad19syn	5.01057e-05	0.999789	0.000375508	0.998421
rad71	4.45159e-05	0.999834	0.000333617	0.998755
rad58	3.61220e-05	0.999870	0.000270710	0.999025
PAH1+H	2.86271e-05	0.999899	0.000214541	0.999240
PhcycC3H3_A+H	2.34369e-05	0.999922	0.000175644	0.999415
rad73	2.07080e-05	0.999943	0.000155193	0.999571
rad70	1.26564e-05	0.999955	9.48509e-05	0.999666
rad37	1.18404e-05	0.999967	8.87361e-05	0.999754
rad54	7.74183e-06	0.999975	5.80198e-05	0.999812
rad65	5.71877e-06	0.999981	4.28583e-05	0.999855
PAH8+H	4.80153e-06	0.999986	3.59842e-05	0.999891
rad34	4.57469e-06	0.999990	3.42843e-05	0.999925
rad72	4.05907e-06	0.999994	3.04200e-05	0.999956
rad68syn	8.44302e-07	0.999995	6.32748e-06	0.999962
rad55	7.96394e-07	0.999996	5.96844e-06	0.999968
rad64	7.49015e-07	0.999997	5.61336e-06	0.999974
rad56	7.20451e-07	0.999997	5.39930e-06	0.999979
rad68anti	5.39463e-07	0.999998	4.04291e-06	0.999983
rad53	5.23143e-07	0.999998	3.92061e-06	0.999987
rad40syn	4.40707e-07	0.999999	3.30281e-06	0.999990
rad62	3.72784e-07	0.999999	2.79377e-06	0.999993
rad61	3.22478e-07	0.999999	2.41676e-06	0.999996
rad40anti	3.14359e-07	1.000000	2.35591e-06	0.999998
rad43	1.94896e-07	1.000000	1.46061e-06	0.999999
rad42	5.98145e-08	1.000000	4.48270e-07	1.000000
rad41	3.19484e-08	1.000000	2.39432e-07	1.000000
rad23	2.52858e-11	1.000000	1.89500e-10	1.000000
rad6	1.60044e-11	1.000000	1.19943e-10	1.000000
rad45	6.86971e-12	1.000000	5.14839e-11	1.000000
rad9	5.93512e-12	1.000000	4.44798e-11	1.000000
rad20	5.61948e-12	1.000000	4.21142e-11	1.000000
rad22	2.62703e-12	1.000000	1.96878e-11	1.000000
rad21	2.52602e-12	1.000000	1.89309e-11	1.000000
rad11	1.59833e-12	1.000000	1.19784e-11	1.000000
rad36	1.28417e-12	1.000000	9.62403e-12	1.000000
rad18	7.70005e-13	1.000000	5.77067e-12	1.000000
rad15	4.66355e-13	1.000000	3.49502e-12	1.000000
rad7	3.50113e-13	1.000000	2.62386e-12	1.000000
rad8	2.23534e-13	1.000000	1.67524e-12	1.000000
rad28	2.09407e-13	1.000000	1.56936e-12	1.000000
rad24	1.60028e-13	1.000000	1.19931e-12	1.000000
rad12	1.40784e-13	1.000000	1.05508e-12	1.000000
rad26	5.00330e-14	1.000000	3.74964e-13	1.000000
rad47	4.90428e-14	1.000000	3.67543e-13	1.000000
rad13	4.47382e-14	1.000000	3.35283e-13	1.000000
rad10	1.82313e-14	1.000000	1.36631e-13	1.000000
rad25	8.60215e-15	1.000000	6.44673e-14	1.000000
rad33	3.44371e-15	1.000000	2.58083e-14	1.000000
rad5	2.11809e-15	1.000000	1.58737e-14	1.000000
rad2	1.52305e-15	1.000000	1.14143e-14	1.000000
rad1	6.49840e-16	1.000000	4.87012e-15	1.000000
rad14	1.40327e-16	1.000000	1.05166e-15	1.000000
rad3	1.22719e-16	1.000000	9.19697e-16	1.000000
rad27	8.01980e-17	1.000000	6.01030e-16	1.000000
rad4	7.28738e-17	1.000000	5.46140e-16	1.000000

0.100000000 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.58309e-12 (1.00)	2.28795e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.855476	0.855476	0.00000	0.00000
PhCH2CCH+H	0.0734301	0.928906	0.508082	0.508082
Indene+H	0.0278643	0.956770	0.192800	0.700882
PhCHCCH2+H	0.0183610	0.975131	0.127045	0.827927
Ph+Allene	0.0145940	0.989725	0.100980	0.928907
PAH3+H	0.00243645	0.992162	0.0168585	0.945765
PAH9+H	0.00110339	0.993265	0.00763468	0.953400
PAH7+H	0.000986571	0.994252	0.00682634	0.960227

rad19anti	0.000808911	0.995061	0.00559707	0.965824
rad38	0.000686670	0.995747	0.00475125	0.970575
rad50	0.000518179	0.996266	0.00358542	0.974160
Ph+MeAc	0.000489465	0.996755	0.00338674	0.977547
rad30	0.000447972	0.997203	0.00309964	0.980647
PhCCH+CH3	0.000378211	0.997581	0.00261694	0.983264
rad39	0.000374434	0.997956	0.00259081	0.985854
rad35	0.000323023	0.998279	0.00223508	0.988089
rad51	0.000289245	0.998568	0.00200136	0.990091
rad46	0.000266714	0.998835	0.00184546	0.991936
rad59	0.000184695	0.999019	0.00127795	0.993214
rad67	0.000159865	0.999179	0.00110614	0.994320
PhCCCH3+H	0.000140367	0.999320	0.000971235	0.995292
rad60syn	9.79791e-05	0.999418	0.000677943	0.995970
PAH10+CH3	8.26142e-05	0.999500	0.000571630	0.996541
rad71	7.28074e-05	0.999573	0.000503774	0.997045
rad60anti	7.14060e-05	0.999644	0.000494077	0.997539
rad19syn	7.13406e-05	0.999716	0.000493624	0.998033
rad52	6.19533e-05	0.999778	0.000428671	0.998461
rad58	4.68388e-05	0.999825	0.000324090	0.998785
PAH1+H	3.98745e-05	0.999864	0.000275902	0.999061
rad73	3.17350e-05	0.999896	0.000219583	0.999281
PhcycC3H3_A+H	2.77967e-05	0.999924	0.000192333	0.999473
rad70	1.68825e-05	0.999941	0.000116814	0.999590
rad37	1.28499e-05	0.999954	8.89115e-05	0.999679
PAH8+H	8.50457e-06	0.999962	5.88454e-05	0.999738
rad54	8.38235e-06	0.999971	5.79997e-05	0.999796
rad72	7.52650e-06	0.999978	5.20778e-05	0.999848
rad65	7.06074e-06	0.999985	4.88551e-05	0.999897
rad34	6.39568e-06	0.999992	4.42534e-05	0.999941
rad68syn	1.34606e-06	0.999993	9.31375e-06	0.999950
rad64	1.07438e-06	0.999994	7.43389e-06	0.999958
rad56	9.79690e-07	0.999995	6.77873e-06	0.999965
rad55	8.93999e-07	0.999996	6.18581e-06	0.999971
rad68anti	8.59058e-07	0.999997	5.94405e-06	0.999977
rad40syn	7.44327e-07	0.999997	5.15020e-06	0.999982
rad53	6.73265e-07	0.999998	4.65850e-06	0.999986
rad40anti	5.40357e-07	0.999999	3.73888e-06	0.999990
rad62	5.25220e-07	0.999999	3.63414e-06	0.999994
rad61	4.70536e-07	1.000000	3.25576e-06	0.999997
rad43	2.53715e-07	1.000000	1.75552e-06	0.999999
rad42	9.14458e-08	1.000000	6.32737e-07	0.999999
rad41	4.57450e-08	1.000000	3.16522e-07	1.000000
rad23	1.15676e-11	1.000000	8.00396e-11	1.000000
rad6	5.54593e-12	1.000000	3.83737e-11	1.000000
rad20	3.83914e-12	1.000000	2.65640e-11	1.000000
rad45	3.70074e-12	1.000000	2.56064e-11	1.000000
rad9	3.46412e-12	1.000000	2.39692e-11	1.000000
rad21	1.66197e-12	1.000000	1.14996e-11	1.000000
rad22	1.34153e-12	1.000000	9.28238e-12	1.000000
rad11	9.83965e-13	1.000000	6.80832e-12	1.000000
rad36	6.98886e-13	1.000000	4.83578e-12	1.000000
rad18	4.51823e-13	1.000000	3.12628e-12	1.000000
rad15	2.92808e-13	1.000000	2.02601e-12	1.000000
rad8	2.15818e-13	1.000000	1.49330e-12	1.000000
rad7	1.58002e-13	1.000000	1.09326e-12	1.000000
rad28	1.15086e-13	1.000000	7.96310e-13	1.000000
rad24	1.10778e-13	1.000000	7.66503e-13	1.000000
rad12	1.07284e-13	1.000000	7.42325e-13	1.000000
rad47	6.03542e-14	1.000000	4.17606e-13	1.000000
rad26	3.22372e-14	1.000000	2.23058e-13	1.000000
rad13	2.21129e-14	1.000000	1.53005e-13	1.000000
rad10	1.24562e-14	1.000000	8.61877e-14	1.000000
rad25	6.72563e-15	1.000000	4.65364e-14	1.000000
rad5	2.03303e-15	1.000000	1.40671e-14	1.000000
rad33	1.94933e-15	1.000000	1.34879e-14	1.000000
rad2	9.92765e-16	1.000000	6.86920e-15	1.000000
rad1	4.73720e-16	1.000000	3.27779e-15	1.000000
rad14	1.20291e-16	1.000000	8.32324e-16	1.000000
rad27	6.78951e-17	1.000000	4.69784e-16	1.000000
rad3	5.95606e-17	1.000000	4.12115e-16	1.000000
rad4	3.44029e-17	1.000000	2.38043e-16	1.000000

0.100000000 Pa, 3500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.10046e-12 (1.00)	3.29923e-13 (1.00)
species	PYtrue Cumul	PYeffective Cumul

Benzyl+C2H2	0.842928	0.842928	0.00000	0.00000
PhCH2CCH+H	0.0857241	0.928652	0.545762	0.545762
Indene+H	0.0229287	0.951581	0.145976	0.691738
PhCHCCH2+H	0.0212218	0.972803	0.135108	0.826846
Ph+Allene	0.0160719	0.988874	0.102322	0.929168
PAH3+H	0.00277080	0.991645	0.0176403	0.946808
PAH7+H	0.00108547	0.992731	0.00691065	0.953719
PAH9+H	0.00103824	0.993769	0.00660998	0.960329
rad19anti	0.000786012	0.994555	0.00500415	0.965333
rad38	0.000657575	0.995213	0.00418645	0.969520
rad50	0.000571322	0.995784	0.00363732	0.973157
Ph+MeAc	0.000559758	0.996344	0.00356370	0.976721
PhCCH+CH3	0.000466753	0.996810	0.00297158	0.979692
rad30	0.000434295	0.997245	0.00276494	0.982457
rad39	0.000426787	0.997672	0.00271714	0.985174
rad51	0.000340822	0.998012	0.00216985	0.987344
rad35	0.000335221	0.998348	0.00213419	0.989478
rad46	0.000264413	0.998612	0.00168339	0.991162
rad59	0.000204435	0.998816	0.00130154	0.992463
rad67	0.000182834	0.998999	0.00116401	0.993627
PhCCCH3+H	0.000163685	0.999163	0.00104210	0.994669
rad71	0.000107601	0.999271	0.000685042	0.995354
rad60syn	0.000103349	0.999374	0.000657969	0.996012
PAH10+CH3	9.81181e-05	0.999472	0.000624669	0.996637
rad19syn	9.79725e-05	0.999570	0.000623742	0.997261
rad60anti	7.58697e-05	0.999646	0.000483025	0.997744
rad52	7.00217e-05	0.999716	0.000445793	0.998190
rad58	5.76196e-05	0.999773	0.000366835	0.998556
PAH1+H	5.20523e-05	0.999826	0.000331391	0.998888
rad73	4.43107e-05	0.999870	0.000282104	0.999170
PhcycC3H3_A+H	3.20633e-05	0.999902	0.000204131	0.999374
rad70	2.14708e-05	0.999923	0.000136694	0.999511
PAH8+H	1.37725e-05	0.999937	8.76827e-05	0.999598
rad37	1.33235e-05	0.999950	8.48243e-05	0.999683
rad72	1.23923e-05	0.999963	7.88959e-05	0.999762
rad54	8.98058e-06	0.999972	5.71749e-05	0.999819
rad34	8.46717e-06	0.999980	5.39063e-05	0.999873
rad65	8.19015e-06	0.999988	5.21426e-05	0.999925
rad68syn	1.99232e-06	0.999990	1.26841e-05	0.999938
rad64	1.43496e-06	0.999992	9.13568e-06	0.999947
rad56	1.27412e-06	0.999993	8.11171e-06	0.999955
rad68anti	1.27030e-06	0.999994	8.08736e-06	0.999963
rad40syn	1.15716e-06	0.999996	7.36708e-06	0.999971
rad55	9.87613e-07	0.999997	6.28764e-06	0.999977
rad40anti	8.52741e-07	0.999997	5.42898e-06	0.999982
rad53	8.35966e-07	0.999998	5.32218e-06	0.999988
rad62	6.97360e-07	0.999999	4.43975e-06	0.999992
rad61	6.32568e-07	1.000000	4.02725e-06	0.999996
rad43	3.12012e-07	1.000000	1.98643e-06	0.999998
rad42	1.30122e-07	1.000000	8.28424e-07	0.999999
rad41	6.11800e-08	1.000000	3.89503e-07	0.999999
rad23	5.66285e-12	1.000000	3.60525e-11	0.999999
rad20	2.74150e-12	1.000000	1.74538e-11	0.999999
rad6	2.25181e-12	1.000000	1.43361e-11	0.999999
rad9	2.09187e-12	1.000000	1.33179e-11	0.999999
rad45	2.08257e-12	1.000000	1.32587e-11	0.999999
rad21	1.14224e-12	1.000000	7.27204e-12	0.999999
rad22	7.39283e-13	1.000000	4.70665e-12	0.999999
rad11	6.62819e-13	1.000000	4.21984e-12	0.999999
rad36	3.96445e-13	1.000000	2.52397e-12	0.999999
rad18	2.79409e-13	1.000000	1.77886e-12	0.999999
rad8	2.04865e-13	1.000000	1.30428e-12	0.999999
rad15	1.88225e-13	1.000000	1.19834e-12	0.999999
rad12	8.20877e-14	1.000000	5.22612e-13	0.999999
rad7	8.00765e-14	1.000000	5.09808e-13	0.999999
rad24	7.82702e-14	1.000000	4.98307e-13	0.999999
rad47	6.94994e-14	1.000000	4.42468e-13	0.999999
rad28	6.90632e-14	1.000000	4.39691e-13	0.999999
rad26	2.10438e-14	1.000000	1.33975e-13	0.999999
rad13	1.21852e-14	1.000000	7.75769e-14	0.999999
rad10	8.58015e-15	1.000000	5.46255e-14	0.999999
rad25	5.44478e-15	1.000000	3.46642e-14	0.999999
rad5	1.94586e-15	1.000000	1.23883e-14	0.999999
rad33	1.19820e-15	1.000000	7.62833e-15	0.999999
rad2	6.77109e-16	1.000000	4.31082e-15	0.999999
rad1	3.54295e-16	1.000000	2.25562e-15	0.999999
rad14	1.06232e-16	1.000000	6.76324e-16	0.999999
rad27	5.69388e-17	1.000000	3.62501e-16	0.999999
rad3	3.28926e-17	1.000000	2.09411e-16	0.999999

rad4 | 1.86007e-17 1.00000 | 1.18421e-16 0.999999

0.100000000 Pa, 3750.00000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 2.70978e-12 (1.00) 4.61708e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829614	0.829614	0.000000	0.000000
PhCH2CCH+H	0.0978316	0.927446	0.574175	0.574175
PhCHCCH2+H	0.0240141	0.951460	0.140939	0.715114
Indene+H	0.0190788	0.970538	0.111974	0.827088
Ph+Allene	0.0176550	0.988193	0.103617	0.930705
PAH3+H	0.00305565	0.991249	0.0179337	0.948639
PAH7+H	0.00116197	0.992411	0.00681959	0.955458
PAH9+H	0.000955042	0.993366	0.00560515	0.961063
rad19anti	0.000750872	0.994117	0.00440688	0.965470
Ph+MeAc	0.000618509	0.994736	0.00363004	0.969100
rad38	0.000613193	0.995349	0.00359884	0.972699
rad50	0.000603635	0.995952	0.00354274	0.976242
PhCCH+CH3	0.000581835	0.996534	0.00341479	0.979657
rad39	0.000465790	0.997000	0.00273373	0.982390
rad30	0.000416539	0.997417	0.00244467	0.984835
rad51	0.000380994	0.997798	0.00223606	0.987071
rad35	0.000341508	0.998139	0.00200431	0.989075
rad46	0.000254425	0.998393	0.00149322	0.990569
rad59	0.000220084	0.998614	0.00129168	0.991860
rad67	0.000201013	0.998815	0.00117975	0.993040
PhCCCH3+H	0.000187990	0.999003	0.00110331	0.994143
rad71	0.000146780	0.999149	0.000861455	0.995005
rad19syn	0.000129261	0.999279	0.000758633	0.995764
PAH10+CH3	0.000111172	0.999390	0.000652468	0.996416
rad60syn	0.000106707	0.999496	0.000626263	0.997042
rad60anti	7.88382e-05	0.999575	0.000462703	0.997505
rad52	7.54521e-05	0.999651	0.000442829	0.997948
rad58	6.80261e-05	0.999719	0.000399246	0.998347
PAH1+H	6.45813e-05	0.999783	0.000379028	0.998726
rad73	5.74878e-05	0.999841	0.000337397	0.999063
PhcycC3H3_A+H	3.61213e-05	0.999877	0.000211996	0.999275
rad70	2.62309e-05	0.999903	0.000153949	0.999429
PAH8+H	2.07420e-05	0.999924	0.000121735	0.999551
rad72	1.85748e-05	0.999943	0.000109016	0.999660
rad37	1.33636e-05	0.999956	7.84314e-05	0.999739
rad34	1.07116e-05	0.999967	6.28665e-05	0.999801
rad54	9.53969e-06	0.999976	5.59886e-05	0.999857
rad65	9.05125e-06	0.999985	5.31219e-05	0.999911
rad68syn	2.77520e-06	0.999988	1.62877e-05	0.999927
rad64	1.81236e-06	0.999990	1.06367e-05	0.999938
rad68anti	1.76807e-06	0.999992	1.03768e-05	0.999948
rad40syn	1.68193e-06	0.999993	9.87130e-06	0.999958
rad56	1.59874e-06	0.999995	9.38301e-06	0.999967
rad40anti	1.25564e-06	0.999996	7.36935e-06	0.999975
rad55	1.07703e-06	0.999997	6.32112e-06	0.999981
rad53	1.00840e-06	0.999998	5.91834e-06	0.999987
rad62	8.81786e-07	0.999999	5.17522e-06	0.999992
rad61	7.98455e-07	1.000000	4.68615e-06	0.999997
rad43	3.67979e-07	1.000000	2.15967e-06	0.999999
rad42	1.74775e-07	1.000000	1.02576e-06	1.000000
rad41	7.77074e-08	1.000000	4.56066e-07	1.000000
rad23	2.93041e-12	1.000000	1.71986e-11	1.000000
rad20	2.03004e-12	1.000000	1.19143e-11	1.000000
rad9	1.30556e-12	1.000000	7.66233e-12	1.000000
rad45	1.21501e-12	1.000000	7.13089e-12	1.000000
rad6	1.04783e-12	1.000000	6.14971e-12	1.000000
rad21	8.13916e-13	1.000000	4.77689e-12	1.000000
rad11	4.77200e-13	1.000000	2.80069e-12	1.000000
rad22	4.33898e-13	1.000000	2.54655e-12	1.000000
rad36	2.32681e-13	1.000000	1.36561e-12	1.000000
rad8	1.91573e-13	1.000000	1.12434e-12	1.000000
rad18	1.80372e-13	1.000000	1.05861e-12	1.000000
rad15	1.23871e-13	1.000000	7.26998e-13	1.000000
rad47	7.59707e-14	1.000000	4.45873e-13	1.000000
rad12	6.32119e-14	1.000000	3.70991e-13	1.000000
rad24	5.63439e-14	1.000000	3.30683e-13	1.000000
rad7	4.45818e-14	1.000000	2.61651e-13	1.000000
rad28	4.37628e-14	1.000000	2.56844e-13	1.000000
rad26	1.39441e-14	1.000000	8.18384e-14	1.000000
rad13	7.33285e-15	1.000000	4.30366e-14	1.000000

rad10	5.99208e-15	1.00000	3.51676e-14	1.00000
rad25	4.50628e-15	1.00000	2.64474e-14	1.00000
rad5	1.86247e-15	1.00000	1.09309e-14	1.00000
rad33	7.87853e-16	1.00000	4.62392e-15	1.00000
rad2	4.83228e-16	1.00000	2.83607e-15	1.00000
rad1	2.69153e-16	1.00000	1.57967e-15	1.00000
rad14	9.46128e-17	1.00000	5.55284e-16	1.00000
rad27	4.76443e-17	1.00000	2.79625e-16	1.00000
rad3	2.00698e-17	1.00000	1.17790e-16	1.00000
rad4	1.11968e-17	1.00000	6.57141e-17	1.00000

0.100000000 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28297e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.816017	0.816017	0.00000	0.00000
PhCH2CCH+H	0.109584	0.925601	0.595618	0.595618
PhCHCCH2+H	0.0267098	0.952311	0.145175	0.740793
Ph+Allene	0.0193046	0.971615	0.104926	0.845719
Indene+H	0.0160484	0.987664	0.0872277	0.932947
PAH3+H	0.00329013	0.990954	0.0178828	0.950829
PAH7+H	0.00121791	0.992172	0.00661968	0.957449
PAH9+H	0.000864009	0.993036	0.00469613	0.962145
PhCCH+CH3	0.000720156	0.993756	0.00391424	0.966060
rad19anti	0.000708493	0.994464	0.00385085	0.969910
Ph+MeAc	0.000663934	0.995128	0.00360866	0.973519
rad50	0.000616859	0.995745	0.00335280	0.976872
rad38	0.000560144	0.996305	0.00304454	0.979916
rad39	0.000491035	0.996796	0.00266891	0.982585
rad51	0.000408498	0.997205	0.00222030	0.984806
rad30	0.000396478	0.997601	0.00215497	0.986961
rad35	0.000343096	0.997945	0.00186482	0.988825
rad46	0.000239253	0.998184	0.00130041	0.990126
rad59	0.000231903	0.998416	0.00126046	0.991386
rad67	0.000214260	0.998630	0.00116456	0.992551
PhCCCH3+H	0.000213580	0.998844	0.00116087	0.993712
rad71	0.000187844	0.999031	0.00102098	0.994733
rad19syn	0.000163941	0.999195	0.000891067	0.995624
PAH10+CH3	0.000121536	0.999317	0.000660582	0.996284
rad60syn	0.000108396	0.999425	0.000589161	0.996873
rad60anti	8.05427e-05	0.999506	0.000437772	0.997311
rad52	7.82960e-05	0.999584	0.000425560	0.997737
rad58	7.77572e-05	0.999662	0.000422632	0.998159
PAH1+H	7.70001e-05	0.999739	0.000418517	0.998578
rad73	7.03552e-05	0.999809	0.000382400	0.998960
PhcycC3H3_A+H	3.98813e-05	0.999849	0.000216766	0.999177
rad70	3.09908e-05	0.999880	0.000168444	0.999346
PAH8+H	2.94355e-05	0.999910	0.000159990	0.999506
rad72	2.58284e-05	0.999935	0.000140384	0.999646
rad37	1.30848e-05	0.999948	7.11194e-05	0.999717
rad34	1.30497e-05	0.999961	7.09289e-05	0.999788
rad54	1.00584e-05	0.999972	5.46703e-05	0.999843
rad65	9.63686e-06	0.999981	5.23790e-05	0.999895
rad68syn	3.67778e-06	0.999985	1.99898e-05	0.999915
rad68anti	2.34154e-06	0.999987	1.27269e-05	0.999928
rad40syn	2.31359e-06	0.999990	1.25750e-05	0.999940
rad64	2.19077e-06	0.999992	1.19074e-05	0.999952
rad56	1.94741e-06	0.999994	1.05847e-05	0.999963
rad40anti	1.74691e-06	0.999995	9.49492e-06	0.999972
rad53	1.18744e-06	0.999997	6.45406e-06	0.999979
rad55	1.16170e-06	0.999998	6.31418e-06	0.999985
rad62	1.07271e-06	0.999999	5.83046e-06	0.999991
rad61	9.59661e-07	1.000000	5.21602e-06	0.999996
rad43	4.20278e-07	1.000000	2.28433e-06	0.999998
rad42	2.24298e-07	1.000000	1.21912e-06	1.000000
rad41	9.47630e-08	1.000000	5.15063e-07	1.000000
rad23	1.58931e-12	1.000000	8.63836e-12	1.000000
rad20	1.54937e-12	1.000000	8.42128e-12	1.000000
rad9	8.40512e-13	1.000000	4.56841e-12	1.000000
rad45	7.30983e-13	1.000000	3.97309e-12	1.000000
rad21	5.97934e-13	1.000000	3.24994e-12	1.000000
rad6	5.46463e-13	1.000000	2.97018e-12	1.000000
rad11	3.61017e-13	1.000000	1.96223e-12	1.000000
rad22	2.68564e-13	1.000000	1.45972e-12	1.000000
rad8	1.76788e-13	1.000000	9.60891e-13	1.000000
rad36	1.40569e-13	1.000000	7.64032e-13	1.000000

rad18	1.20728e-13	1.00000	6.56191e-13	1.00000
rad15	8.33731e-14	1.00000	4.53156e-13	1.00000
rad47	7.97227e-14	1.00000	4.33315e-13	1.00000
rad12	4.90407e-14	1.00000	2.66550e-13	1.00000
rad24	4.12849e-14	1.00000	2.24395e-13	1.00000
rad28	2.88114e-14	1.00000	1.56598e-13	1.00000
rad7	2.67484e-14	1.00000	1.45385e-13	1.00000
rad26	9.39414e-15	1.00000	5.10597e-14	1.00000
rad13	4.73338e-15	1.00000	2.57272e-14	1.00000
rad10	4.26629e-15	1.00000	2.31884e-14	1.00000
rad25	3.78512e-15	1.00000	2.05732e-14	1.00000
rad5	1.78278e-15	1.00000	9.68990e-15	1.00000
rad33	5.47165e-16	1.00000	2.97399e-15	1.00000
rad2	3.62346e-16	1.00000	1.96945e-15	1.00000
rad1	2.06921e-16	1.00000	1.12467e-15	1.00000
rad14	8.44316e-17	1.00000	4.58909e-16	1.00000
rad27	3.99783e-17	1.00000	2.17293e-16	1.00000
rad3	1.32313e-17	1.00000	7.19157e-17	1.00000
rad4	7.32793e-18	1.00000	3.98293e-17	1.00000

0.100000000E-01 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.993231	0.993231	0.993232	0.993232
rad23	0.00647300	0.999704	0.00647300	0.999705
rad6	0.000180263	0.999884	0.000180263	0.999885
rad45	0.000102123	0.999986	0.000102123	0.999987
rad36	6.36146e-06	0.999993	6.36146e-06	0.999994
rad22	4.26368e-06	0.999997	4.26368e-06	0.999998
rad11	1.82173e-06	0.999999	1.82173e-06	1.000000
Benzyl+C2H2	8.11881e-07	1.000000	0.000000	1.000000
rad7	1.99084e-08	1.000000	1.99084e-08	1.000000
rad20	1.80056e-10	1.000000	1.80056e-10	1.000000
rad21	1.13056e-10	1.000000	1.13057e-10	1.000000
rad13	7.47426e-11	1.000000	7.47426e-11	1.000000
rad18	1.86628e-11	1.000000	1.86628e-11	1.000000
rad3	1.60608e-11	1.000000	1.60609e-11	1.000000
rad4	8.11959e-12	1.000000	8.11960e-12	1.000000
rad2	1.81353e-12	1.000000	1.81353e-12	1.000000
rad24	9.70087e-13	1.000000	9.70088e-13	1.000000
rad33	1.36726e-13	1.000000	1.36726e-13	1.000000
rad1	1.14619e-13	1.000000	1.14620e-13	1.000000
rad35	1.04723e-13	1.000000	1.04723e-13	1.000000
rad10	4.70760e-14	1.000000	4.70761e-14	1.000000
PAH9+H	1.19582e-14	1.000000	1.19582e-14	1.000000
rad38	4.72937e-17	1.000000	4.72937e-17	1.000000
rad28	1.73279e-18	1.000000	1.73279e-18	1.000000
rad30	4.02301e-20	1.000000	4.02301e-20	1.000000
rad26	5.06193e-21	1.000000	5.06194e-21	1.000000
rad31	4.06911e-21	1.000000	4.06911e-21	1.000000
rad27	3.36247e-21	1.000000	3.36247e-21	1.000000
rad25	1.33302e-21	1.000000	1.33303e-21	1.000000
rad14	4.55366e-23	1.000000	4.55366e-23	1.000000
PhCCH+CH3	1.03044e-23	1.000000	1.03044e-23	1.000000
PhCHCCH2+H	9.81150e-24	1.000000	9.81151e-24	1.000000
rad15	3.46098e-24	1.000000	3.46098e-24	1.000000
PhCCCH3+H	7.77911e-25	1.000000	7.77912e-25	1.000000
rad46	5.50609e-28	1.000000	5.50610e-28	1.000000
rad8	2.39154e-28	1.000000	2.39154e-28	1.000000
rad9	2.38212e-29	1.000000	2.38212e-29	1.000000
Ph+MeAc	2.48618e-30	1.000000	2.48619e-30	1.000000
PAH7+H	2.40561e-31	1.000000	2.40562e-31	1.000000
rad12	2.37041e-32	1.000000	2.37041e-32	1.000000
rad39	5.13644e-33	1.000000	5.13644e-33	1.000000
Ph+Allene	4.36347e-33	1.000000	4.36348e-33	1.000000
rad60syn	2.08584e-37	1.000000	2.08585e-37	1.000000
PhCH2CCH+H	2.33945e-38	1.000000	2.33945e-38	1.000000
rad60anti	9.93804e-39	1.000000	9.93805e-39	1.000000
rad37	4.41266e-39	1.000000	4.41266e-39	1.000000
rad5	8.00003e-42	1.000000	8.00003e-42	1.000000
PAH3+H	9.42128e-46	1.000000	9.42128e-46	1.000000
rad59	4.64896e-46	1.000000	4.64896e-46	1.000000
rad50	7.91129e-47	1.000000	7.91130e-47	1.000000
rad19syn	2.13894e-51	1.000000	2.13895e-51	1.000000
rad54	3.60559e-55	1.000000	3.60559e-55	1.000000

PAH10+CH3	2.44284e-55	1.000000	2.44284e-55	1.000000
rad52	1.56152e-55	1.000000	1.56153e-55	1.000000
rad43	5.61394e-56	1.000000	5.61394e-56	1.000000
rad62	6.99599e-58	1.000000	6.99599e-58	1.000000
rad51	7.40512e-61	1.000000	7.40513e-61	1.000000
rad70	1.59840e-62	1.000000	1.59840e-62	1.000000
PhcycC3H3_A+H	8.70412e-63	1.000000	8.70413e-63	1.000000
rad55	4.50712e-63	1.000000	4.50712e-63	1.000000
rad65	4.31633e-65	1.000000	4.31633e-65	1.000000
rad58	3.56374e-66	1.000000	3.56375e-66	1.000000
PAH1+H	3.00698e-67	1.000000	3.00698e-67	1.000000
rad34	2.79553e-69	1.000000	2.79553e-69	1.000000
rad42	4.75919e-73	1.000000	4.75920e-73	1.000000
rad41	6.76928e-74	1.000000	6.76928e-74	1.000000
rad47	2.63829e-74	1.000000	2.63829e-74	1.000000

0.100000000E-01 Pa, 30.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.15918e-108 (1.00)	1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998688	0.998688	0.998689	0.998689
rad23	0.00110928	0.999797	0.00110928	0.999798
rad6	0.000184375	0.999982	0.000184375	0.999983
rad45	1.56178e-05	0.999997	1.56179e-05	0.999998
Benzyl+C2H2	1.04098e-06	0.999998	0.00000	0.999998
rad36	9.72573e-07	0.999999	9.72574e-07	0.999999
rad22	6.31953e-07	1.000000	6.31954e-07	1.000000
rad11	3.94132e-07	1.000000	3.94133e-07	1.000000
rad7	1.87828e-08	1.000000	1.87829e-08	1.000000
rad13	7.52754e-11	1.000000	7.52755e-11	1.000000
rad20	7.21685e-11	1.000000	7.21685e-11	1.000000
rad21	4.52004e-11	1.000000	4.52004e-11	1.000000
rad3	3.23919e-11	1.000000	3.23920e-11	1.000000
rad4	1.63782e-11	1.000000	1.63782e-11	1.000000
rad2	7.41256e-12	1.000000	7.41257e-12	1.000000
rad18	3.51875e-12	1.000000	3.51876e-12	1.000000
rad1	4.68764e-13	1.000000	4.68765e-13	1.000000
rad10	2.68263e-13	1.000000	2.68263e-13	1.000000
rad24	1.61109e-13	1.000000	1.61110e-13	1.000000
rad33	1.39792e-13	1.000000	1.39792e-13	1.000000
rad35	9.58771e-14	1.000000	9.58772e-14	1.000000
PAH9+H	9.02906e-15	1.000000	9.02907e-15	1.000000
rad38	2.73601e-17	1.000000	2.73601e-17	1.000000
rad28	4.26119e-18	1.000000	4.26119e-18	1.000000
rad26	2.93785e-20	1.000000	2.93785e-20	1.000000
rad30	2.60272e-20	1.000000	2.60272e-20	1.000000
rad27	1.13290e-20	1.000000	1.13290e-20	1.000000
rad31	8.34221e-21	1.000000	8.34222e-21	1.000000
rad25	1.69619e-21	1.000000	1.69619e-21	1.000000
rad14	8.36462e-23	1.000000	8.36463e-23	1.000000
PhCHCCH2+H	4.81292e-23	1.000000	4.81293e-23	1.000000
PhCCH+CH3	3.02803e-23	1.000000	3.02804e-23	1.000000
PhCCCH3+H	3.66844e-24	1.000000	3.66845e-24	1.000000
rad15	2.36213e-24	1.000000	2.36213e-24	1.000000
rad8	1.02593e-27	1.000000	1.02593e-27	1.000000
rad46	1.29826e-28	1.000000	1.29826e-28	1.000000
rad9	6.16140e-29	1.000000	6.16141e-29	1.000000
Ph+MeAc	8.63684e-30	1.000000	8.63685e-30	1.000000
PAH7+H	1.20430e-30	1.000000	1.20430e-30	1.000000
rad12	1.64950e-31	1.000000	1.64950e-31	1.000000
rad39	2.52360e-32	1.000000	2.52360e-32	1.000000
Ph+Allene	1.11068e-32	1.000000	1.11069e-32	1.000000
rad60syn	5.32389e-37	1.000000	5.32389e-37	1.000000
PhCH2CCH+H	5.62411e-38	1.000000	5.62412e-38	1.000000
rad60anti	2.52330e-38	1.000000	2.52330e-38	1.000000
rad37	1.23802e-38	1.000000	1.23803e-38	1.000000
rad5	1.88154e-41	1.000000	1.88154e-41	1.000000
PAH3+H	2.05418e-45	1.000000	2.05418e-45	1.000000
rad59	1.01973e-45	1.000000	1.01973e-45	1.000000
rad50	1.78241e-46	1.000000	1.78241e-46	1.000000
rad19syn	2.54529e-51	1.000000	2.54529e-51	1.000000
rad54	2.85605e-55	1.000000	2.85606e-55	1.000000
rad52	1.98049e-55	1.000000	1.98049e-55	1.000000
PAH10+CH3	1.92128e-55	1.000000	1.92128e-55	1.000000
rad43	4.41307e-56	1.000000	4.41307e-56	1.000000
rad62	4.16212e-58	1.000000	4.16213e-58	1.000000

rad51	4.46125e-61	1.00000	4.46125e-61	1.00000
rad70	4.59527e-63	1.00000	4.59528e-63	1.00000
PhcycC3H3_A+H	2.32171e-63	1.00000	2.32171e-63	1.00000
rad55	1.22171e-63	1.00000	1.22171e-63	1.00000
rad65	1.56351e-65	1.00000	1.56351e-65	1.00000
rad58	8.99011e-67	1.00000	8.99012e-67	1.00000
PAH1+H	4.23332e-68	1.00000	4.23332e-68	1.00000
rad34	3.45065e-70	1.00000	3.45065e-70	1.00000
rad42	4.24587e-74	1.00000	4.24587e-74	1.00000
rad41	5.75374e-75	1.00000	5.75375e-75	1.00000
rad47	2.35975e-75	1.00000	2.35975e-75	1.00000

0.100000000E-01 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999481	0.999481	0.999482	0.999482
rad23	0.000322592	0.999804	0.000322593	0.999805
rad6	0.000190025	0.999994	0.000190025	0.999995
rad45	4.27837e-06	0.999998	4.27838e-06	0.999999
Benzyl+C2H2	1.52893e-06	0.999999	0.00000	0.999999
rad36	2.66266e-07	1.000000	2.66266e-07	0.999999
rad22	1.72568e-07	1.000000	1.72568e-07	0.999999
rad11	1.61305e-07	1.000000	1.61305e-07	0.999999
rad7	1.85623e-08	1.000000	1.85623e-08	1.000000
rad13	7.72320e-11	1.000000	7.72321e-11	1.000000
rad3	4.90379e-11	1.000000	4.90379e-11	1.000000
rad20	4.38914e-11	1.000000	4.38915e-11	1.000000
rad21	2.74664e-11	1.000000	2.74665e-11	1.000000
rad4	2.48026e-11	1.000000	2.48026e-11	1.000000
rad2	1.78722e-11	1.000000	1.78722e-11	1.000000
rad18	1.45314e-12	1.000000	1.45315e-12	1.000000
rad1	1.13161e-12	1.000000	1.13161e-12	1.000000
rad10	7.48982e-13	1.000000	7.48983e-13	1.000000
rad35	1.50254e-13	1.000000	1.50255e-13	1.000000
rad33	1.44226e-13	1.000000	1.44226e-13	1.000000
rad24	4.64098e-14	1.000000	4.64099e-14	1.000000
PAH9+H	1.04039e-14	1.000000	1.04040e-14	1.000000
rad38	2.75587e-17	1.000000	2.75588e-17	1.000000
rad28	9.48923e-18	1.000000	9.48924e-18	1.000000
rad26	1.03325e-19	1.000000	1.03326e-19	1.000000
rad30	3.09503e-20	1.000000	3.09504e-20	1.000000
rad27	2.83203e-20	1.000000	2.83204e-20	1.000000
rad31	1.29710e-20	1.000000	1.29711e-20	1.000000
rad25	2.66603e-21	1.000000	2.66603e-21	1.000000
PhCHCCH2+H	1.61587e-22	1.000000	1.61587e-22	1.000000
rad14	1.56929e-22	1.000000	1.56929e-22	1.000000
PhCCH+CH3	7.97040e-23	1.000000	7.97041e-23	1.000000
PhCCCH3+H	1.20859e-23	1.000000	1.20860e-23	1.000000
rad15	3.11322e-24	1.000000	3.11322e-24	1.000000
rad8	3.20039e-27	1.000000	3.20040e-27	1.000000
rad9	1.51105e-28	1.000000	1.51106e-28	1.000000
rad46	1.00011e-28	1.000000	1.00011e-28	1.000000
Ph+MeAc	2.41288e-29	1.000000	2.41288e-29	1.000000
PAH7+H	4.25038e-30	1.000000	4.25039e-30	1.000000
rad12	6.61588e-31	1.000000	6.61589e-31	1.000000
rad39	8.82908e-32	1.000000	8.82909e-32	1.000000
Ph+Allene	2.76150e-32	1.000000	2.76151e-32	1.000000
rad60syn	1.32237e-36	1.000000	1.32237e-36	1.000000
PhCH2CCH+H	1.36314e-37	1.000000	1.36314e-37	1.000000
rad60anti	6.27840e-38	1.000000	6.27841e-38	1.000000
rad37	3.11020e-38	1.000000	3.11020e-38	1.000000
rad5	4.47431e-41	1.000000	4.47432e-41	1.000000
PAH3+H	4.65394e-45	1.000000	4.65395e-45	1.000000
rad59	2.31991e-45	1.000000	2.31991e-45	1.000000
rad50	4.13209e-46	1.000000	4.13210e-46	1.000000
rad19syn	3.78147e-51	1.000000	3.78147e-51	1.000000
rad54	3.28798e-55	1.000000	3.28798e-55	1.000000
rad52	3.06789e-55	1.000000	3.06789e-55	1.000000
PAH10+CH3	2.20609e-55	1.000000	2.20609e-55	1.000000
rad43	5.06515e-56	1.000000	5.06516e-56	1.000000
rad62	4.06410e-58	1.000000	4.06411e-58	1.000000
rad51	4.38368e-61	1.000000	4.38369e-61	1.000000
rad70	3.08084e-63	1.000000	3.08084e-63	1.000000
PhcycC3H3_A+H	1.50397e-63	1.000000	1.50397e-63	1.000000
rad55	7.96127e-64	1.000000	7.96128e-64	1.000000

rad65	1.17288e-65	1.00000	1.17289e-65	1.000000
rad58	5.67101e-67	1.00000	5.67102e-67	1.000000
PAH1+H	2.07848e-68	1.00000	2.07849e-68	1.000000
rad34	1.61031e-70	1.00000	1.61032e-70	1.000000
rad42	1.76161e-74	1.00000	1.76161e-74	1.000000
rad41	2.35137e-75	1.00000	2.35137e-75	1.000000
rad47	8.66579e-76	1.00000	8.66581e-76	1.000000

0.100000000E-01 Pa, 50.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.31816e-70 (1.00)	2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999675	0.999675	0.999677	0.999677
rad6	0.000197407	0.999872	0.000197407	0.999874
rad23	0.000123728	0.999996	0.000123728	0.999998
Benzyl+C2H2	2.26146e-06	0.999998	0.00000	0.999998
rad45	1.57744e-06	1.000000	1.57745e-06	1.000000
rad36	9.80958e-08	1.00000	9.80961e-08	1.000000
rad11	8.61500e-08	1.00000	8.61502e-08	1.000000
rad22	6.35988e-08	1.00000	6.35989e-08	1.000000
rad7	1.87629e-08	1.00000	1.87629e-08	1.000000
rad13	8.01185e-11	1.00000	8.01187e-11	1.000000
rad3	6.70629e-11	1.00000	6.70631e-11	1.000000
rad2	3.59526e-11	1.00000	3.59527e-11	1.000000
rad4	3.39344e-11	1.00000	3.39345e-11	1.000000
rad20	3.08985e-11	1.00000	3.08986e-11	1.000000
rad21	1.93318e-11	1.00000	1.93318e-11	1.000000
rad1	2.28041e-12	1.00000	2.28041e-12	1.000000
rad10	1.63932e-12	1.00000	1.63932e-12	1.000000
rad18	7.96955e-13	1.00000	7.96957e-13	1.000000
rad35	3.88035e-13	1.00000	3.88036e-13	1.000000
rad33	1.50099e-13	1.00000	1.50099e-13	1.000000
PAH9+H	2.20146e-14	1.00000	2.20147e-14	1.000000
rad24	1.77505e-14	1.00000	1.77505e-14	1.000000
rad38	4.34429e-17	1.00000	4.34430e-17	1.000000
rad28	2.25427e-17	1.00000	2.25427e-17	1.000000
rad26	3.38278e-19	1.00000	3.38279e-19	1.000000
rad30	2.27585e-19	1.00000	2.27585e-19	1.000000
rad27	7.13031e-20	1.00000	7.13033e-20	1.000000
rad31	1.83775e-20	1.00000	1.83776e-20	1.000000
rad25	5.02504e-21	1.00000	5.02505e-21	1.000000
PhCHCCH2+H	5.28458e-22	1.00000	5.28459e-22	1.000000
rad14	3.35472e-22	1.00000	3.35473e-22	1.000000
PhCCH+CH3	2.24416e-22	1.00000	2.24416e-22	1.000000
PhCCCH3+H	3.92645e-23	1.00000	3.92646e-23	1.000000
rad15	6.38629e-24	1.00000	6.38630e-24	1.000000
rad8	1.00926e-26	1.00000	1.00927e-26	1.000000
rad9	4.10596e-28	1.00000	4.10597e-28	1.000000
rad46	1.45335e-28	1.00000	1.45336e-28	1.000000
Ph+MeAc	7.18664e-29	1.00000	7.18666e-29	1.000000
PAH7+H	1.48344e-29	1.00000	1.48344e-29	1.000000
rad12	2.48282e-30	1.00000	2.48282e-30	1.000000
rad39	3.07806e-31	1.00000	3.07807e-31	1.000000
Ph+Allene	7.76866e-32	1.00000	7.76867e-32	1.000000
rad60syn	3.70553e-36	1.00000	3.70554e-36	1.000000
PhCH2CCH+H	3.83180e-37	1.00000	3.83181e-37	1.000000
rad60anti	1.77206e-37	1.00000	1.77206e-37	1.000000
rad37	8.88432e-38	1.00000	8.88434e-38	1.000000
rad5	1.24501e-40	1.00000	1.24501e-40	1.000000
PAH3+H	1.25167e-44	1.00000	1.25168e-44	1.000000
rad59	6.25727e-45	1.00000	6.25729e-45	1.000000
rad50	1.12910e-45	1.00000	1.12910e-45	1.000000
rad19syn	7.55452e-51	1.00000	7.55454e-51	1.000000
rad52	6.30485e-55	1.00000	6.30487e-55	1.000000
rad54	5.56096e-55	1.00000	5.56097e-55	1.000000
PAH10+CH3	3.73072e-55	1.00000	3.73073e-55	1.000000
rad43	8.56336e-56	1.00000	8.56338e-56	1.000000
rad62	6.21899e-58	1.00000	6.21900e-58	1.000000
rad51	6.72813e-61	1.00000	6.72815e-61	1.000000
rad70	3.81821e-63	1.00000	3.81822e-63	1.000000
PhcycC3H3_A+H	1.83164e-63	1.00000	1.83164e-63	1.000000
rad55	9.72162e-64	1.00000	9.72165e-64	1.000000
rad65	1.54290e-65	1.00000	1.54290e-65	1.000000
rad58	6.81286e-67	1.00000	6.81288e-67	1.000000
PAH1+H	2.21911e-68	1.00000	2.21912e-68	1.000000
rad34	1.68370e-70	1.00000	1.68371e-70	1.000000

rad42	1.76376e-74	1.00000	1.76377e-74	1.000000
rad41	2.35060e-75	1.00000	2.35061e-75	1.000000
rad47	7.39275e-76	1.00000	7.39276e-76	1.000000

0.100000000E-01 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.44107e-61 (1.00)	8.44104e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999733	0.999733	0.999737	0.999737
rad6	0.000206106	0.999939	0.000206107	0.999943
rad23	5.63026e-05	0.999995	5.63028e-05	0.999999
Benzyl+C2H2	3.25348e-06	0.999999	0.00000	0.999999
rad45	6.97354e-07	0.999999	6.97357e-07	1.00000
rad11	5.34537e-08	0.999999	5.34538e-08	1.00000
rad36	4.33302e-08	0.999999	4.33304e-08	1.00000
rad22	2.81243e-08	0.999999	2.81244e-08	1.00000
rad7	1.92053e-08	1.000000	1.92054e-08	1.00000
rad3	8.66148e-11	1.000000	8.66150e-11	1.00000
rad13	8.36483e-11	1.000000	8.36486e-11	1.00000
rad2	6.58882e-11	1.000000	6.58884e-11	1.00000
rad4	4.38519e-11	1.000000	4.38521e-11	1.00000
rad20	2.34546e-11	1.000000	2.34547e-11	1.00000
rad21	1.46765e-11	1.000000	1.46766e-11	1.00000
rad1	4.18821e-12	1.000000	4.18822e-12	1.00000
rad10	3.17090e-12	1.000000	3.17091e-12	1.00000
rad35	9.70167e-13	1.000000	9.70170e-13	1.00000
rad18	5.05648e-13	1.000000	5.05650e-13	1.00000
rad33	1.57076e-13	1.000000	1.57076e-13	1.00000
PAH9+H	7.92353e-14	1.000000	7.92356e-14	1.00000
rad24	8.08033e-15	1.000000	8.08036e-15	1.00000
rad38	1.57746e-16	1.000000	1.57746e-16	1.00000
rad28	6.20834e-17	1.000000	6.20836e-17	1.00000
rad30	2.81808e-17	1.000000	2.81809e-17	1.00000
rad26	1.19291e-18	1.000000	1.19291e-18	1.00000
rad27	1.99466e-19	1.000000	1.99467e-19	1.00000
rad31	2.47727e-20	1.000000	2.47728e-20	1.00000
rad25	1.20174e-20	1.000000	1.20174e-20	1.00000
PhCHCCH2+H	1.91898e-21	1.000000	1.91899e-21	1.00000
rad14	8.65348e-22	1.000000	8.65351e-22	1.00000
PhCCH+CH3	7.35117e-22	1.000000	7.35119e-22	1.00000
rad15	4.94780e-22	1.000000	4.94782e-22	1.00000
PhCCCH3+H	1.42891e-22	1.000000	1.42892e-22	1.00000
rad8	3.62585e-26	1.000000	3.62586e-26	1.00000
rad9	1.32709e-27	1.000000	1.32710e-27	1.00000
rad46	3.80503e-28	1.000000	3.80504e-28	1.00000
Ph+MeAc	2.51566e-28	1.000000	2.51566e-28	1.00000
PAH7+H	5.79999e-29	1.000000	5.80001e-29	1.00000
rad12	1.02273e-29	1.000000	1.02273e-29	1.00000
rad39	1.20869e-30	1.000000	1.20870e-30	1.00000
Ph+Allene	2.63635e-31	1.000000	2.63636e-31	1.00000
rad60syn	1.24997e-35	1.000000	1.24997e-35	1.00000
PhCH2CCH+H	1.32257e-36	1.000000	1.32258e-36	1.00000
rad60anti	6.04417e-37	1.000000	6.04419e-37	1.00000
rad37	3.10261e-37	1.000000	3.10262e-37	1.00000
rad5	4.28533e-40	1.000000	4.28535e-40	1.00000
PAH3+H	4.20508e-44	1.000000	4.20510e-44	1.00000
rad59	2.10629e-44	1.000000	2.10629e-44	1.00000
rad50	3.83394e-45	1.000000	3.83395e-45	1.00000
rad19syn	2.05754e-50	1.000000	2.05755e-50	1.00000
rad52	1.75079e-54	1.000000	1.75080e-54	1.00000
rad54	1.35678e-54	1.000000	1.35678e-54	1.00000
PAH10+CH3	9.11979e-55	1.000000	9.11982e-55	1.00000
rad43	2.09291e-55	1.000000	2.09292e-55	1.00000
rad62	1.42761e-57	1.000000	1.42761e-57	1.00000
rad51	1.54566e-60	1.000000	1.54567e-60	1.00000
rad70	7.78319e-63	1.000000	7.78322e-63	1.00000
PhcycC3H3_A+H	3.70158e-63	1.000000	3.70159e-63	1.00000
rad55	1.96697e-63	1.000000	1.96698e-63	1.00000
rad65	3.24465e-65	1.000000	3.24466e-65	1.00000
rad58	1.36760e-66	1.000000	1.36760e-66	1.00000
PAH1+H	4.23607e-68	1.000000	4.23608e-68	1.00000
rad34	3.19427e-70	1.000000	3.19428e-70	1.00000
rad42	3.32760e-74	1.000000	3.32761e-74	1.00000
rad41	4.47691e-75	1.000000	4.47693e-75	1.00000
rad47	1.17034e-75	1.000000	1.17034e-75	1.00000

0.100000000E-01 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.61998e-54 (1.00)	5.61996e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999750	0.999750	0.999755	0.999755
rad6	0.000216006	0.999966	0.000216007	0.999971
rad23	2.87735e-05	0.999995	2.87736e-05	1.000000
Benzyl+C2H2	4.55698e-06	0.999999	0.000000	1.000000
rad45	3.48449e-07	1.000000	3.48450e-07	1.000000
rad11	3.66337e-08	1.000000	3.66339e-08	1.000000
rad36	2.16340e-08	1.000000	2.16341e-08	1.000000
rad7	1.98226e-08	1.000000	1.98227e-08	1.000000
rad22	1.40625e-08	1.000000	1.40626e-08	1.000000
rad2	1.14159e-10	1.000000	1.14160e-10	1.000000
rad3	1.07626e-10	1.000000	1.07627e-10	1.000000
rad13	8.77343e-11	1.000000	8.77347e-11	1.000000
rad4	5.45246e-11	1.000000	5.45248e-11	1.000000
rad20	1.86467e-11	1.000000	1.86468e-11	1.000000
rad21	1.16722e-11	1.000000	1.16723e-11	1.000000
rad1	7.27466e-12	1.000000	7.27470e-12	1.000000
rad10	5.69732e-12	1.000000	5.69734e-12	1.000000
rad35	2.02428e-12	1.000000	2.02429e-12	1.000000
rad18	3.50401e-13	1.000000	3.50402e-13	1.000000
PAH9+H	2.72346e-13	1.000000	2.72348e-13	1.000000
rad33	1.65062e-13	1.000000	1.65063e-13	1.000000
rad24	4.13857e-15	1.000000	4.13859e-15	1.000000
rad38	1.06954e-15	1.000000	1.06954e-15	1.000000
rad30	1.03409e-15	1.000000	1.03409e-15	1.000000
rad28	2.20488e-16	1.000000	2.20489e-16	1.000000
rad26	5.06358e-18	1.000000	5.06361e-18	1.000000
rad27	6.47998e-19	1.000000	6.48001e-19	1.000000
rad15	9.42730e-20	1.000000	9.42735e-20	1.000000
rad25	6.53016e-20	1.000000	6.53019e-20	1.000000
rad31	3.23602e-20	1.000000	3.23604e-20	1.000000
PhCHCCH2+H	8.81837e-21	1.000000	8.81841e-21	1.000000
PhCCH+CH3	3.14957e-21	1.000000	3.14959e-21	1.000000
rad14	2.98035e-21	1.000000	2.98036e-21	1.000000
PhCCCH3+H	6.64882e-22	1.000000	6.64885e-22	1.000000
rad8	1.69055e-25	1.000000	1.69056e-25	1.000000
rad9	5.70366e-27	1.000000	5.70369e-27	1.000000
rad46	3.94490e-27	1.000000	3.94491e-27	1.000000
Ph+MeAc	1.16679e-27	1.000000	1.16680e-27	1.000000
PAH7+H	2.90600e-28	1.000000	2.90601e-28	1.000000
rad12	5.35463e-29	1.000000	5.35466e-29	1.000000
rad39	6.10598e-30	1.000000	6.10601e-30	1.000000
Ph+Allene	1.20102e-30	1.000000	1.20102e-30	1.000000
rad60syn	5.65184e-35	1.000000	5.65186e-35	1.000000
PhCH2CCH+H	6.20703e-36	1.000000	6.20706e-36	1.000000
rad60anti	2.77088e-36	1.000000	2.77089e-36	1.000000
rad37	1.47276e-36	1.000000	1.47277e-36	1.000000
rad5	2.01765e-39	1.000000	2.01766e-39	1.000000
PAH3+H	1.94581e-43	1.000000	1.94581e-43	1.000000
rad59	9.75901e-44	1.000000	9.75905e-44	1.000000
rad50	1.78608e-44	1.000000	1.78609e-44	1.000000
rad19syn	8.22695e-50	1.000000	8.22699e-50	1.000000
rad52	7.09324e-54	1.000000	7.09327e-54	1.000000
rad54	5.05027e-54	1.000000	5.05029e-54	1.000000
PAH10+CH3	3.40886e-54	1.000000	3.40888e-54	1.000000
rad43	7.82189e-55	1.000000	7.82193e-55	1.000000
rad62	5.13183e-57	1.000000	5.13185e-57	1.000000
rad51	5.54930e-60	1.000000	5.54933e-60	1.000000
rad70	2.62855e-62	1.000000	2.62856e-62	1.000000
PhcycC3H3_A+H	1.24588e-62	1.000000	1.24589e-62	1.000000
rad55	6.62290e-63	1.000000	6.62293e-63	1.000000
rad65	1.11124e-64	1.000000	1.11125e-64	1.000000
rad58	4.59136e-66	1.000000	4.59139e-66	1.000000
PAH1+H	1.40694e-67	1.000000	1.40695e-67	1.000000
rad34	1.06334e-69	1.000000	1.06335e-69	1.000000
rad42	1.13099e-73	1.000000	1.13099e-73	1.000000
rad41	1.56471e-74	1.000000	1.56472e-74	1.000000
rad47	3.30304e-75	1.000000	3.30306e-75	1.000000

0.100000000E-01 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 7.28864e-49 (1.00) 7.28860e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999750	0.999750	0.999757	0.999757
rad6	0.000227153	0.999977	0.000227155	0.999984
rad23	1.59864e-05	0.999993	1.59865e-05	1.00000
Benzyl+C2H2	6.25278e-06	0.999999	0.00000	1.00000
rad45	1.90101e-07	1.000000	1.90102e-07	1.00000
rad11	2.70151e-08	1.000000	2.70153e-08	1.00000
rad7	2.05915e-08	1.000000	2.05916e-08	1.00000
rad36	1.17946e-08	1.000000	1.17947e-08	1.00000
rad22	7.67930e-09	1.000000	7.67935e-09	1.00000
rad2	1.90787e-10	1.000000	1.90788e-10	1.00000
rad3	1.30016e-10	1.000000	1.30017e-10	1.00000
rad13	9.23812e-11	1.000000	9.23818e-11	1.00000
rad4	6.59149e-11	1.000000	6.59153e-11	1.00000
rad20	1.52926e-11	1.000000	1.52927e-11	1.00000
rad1	1.21916e-11	1.000000	1.21917e-11	1.00000
rad10	9.76306e-12	1.000000	9.76312e-12	1.00000
rad21	9.57755e-12	1.000000	9.57761e-12	1.00000
rad35	3.64459e-12	1.000000	3.64462e-12	1.00000
PAH9+H	7.52945e-13	1.000000	7.52949e-13	1.00000
rad18	2.57444e-13	1.000000	2.57445e-13	1.00000
rad33	1.74098e-13	1.000000	1.74099e-13	1.00000
rad30	1.51600e-14	1.000000	1.51600e-14	1.00000
rad38	5.97678e-15	1.000000	5.97682e-15	1.00000
rad24	2.30730e-15	1.000000	2.30731e-15	1.00000
rad28	1.02964e-15	1.000000	1.02965e-15	1.00000
rad26	2.70132e-17	1.000000	2.70134e-17	1.00000
rad15	4.84693e-18	1.000000	4.84696e-18	1.00000
rad27	2.30074e-18	1.000000	2.30075e-18	1.00000
rad25	9.49956e-19	1.000000	9.49962e-19	1.00000
PhCHCCH2+H	5.95735e-20	1.000000	5.95738e-20	1.00000
rad31	4.14190e-20	1.000000	4.14193e-20	1.00000
PhCCH+CH3	2.10372e-20	1.000000	2.10373e-20	1.00000
rad14	1.54027e-20	1.000000	1.54028e-20	1.00000
PhCCCH3+H	4.70533e-21	1.000000	4.70536e-21	1.00000
rad8	1.24153e-24	1.000000	1.24154e-24	1.00000
rad46	5.01301e-25	1.000000	5.01305e-25	1.00000
rad9	3.96738e-26	1.000000	3.96740e-26	1.00000
Ph+MeAc	8.74157e-27	1.000000	8.74162e-27	1.00000
PAH7+H	2.29781e-27	1.000000	2.29782e-27	1.00000
rad12	4.38712e-28	1.000000	4.38715e-28	1.00000
rad39	4.88284e-29	1.000000	4.88287e-29	1.00000
Ph+Allene	8.91556e-30	1.000000	8.91562e-30	1.00000
rad60syn	4.15987e-34	1.000000	4.15989e-34	1.00000
PhCH2CCH+H	4.79228e-35	1.000000	4.79231e-35	1.00000
rad60anti	2.07173e-35	1.000000	2.07174e-35	1.00000
rad37	1.15137e-35	1.000000	1.15138e-35	1.00000
rad5	1.57083e-38	1.000000	1.57084e-38	1.00000
PAH3+H	1.49604e-42	1.000000	1.49605e-42	1.00000
rad59	7.50926e-43	1.000000	7.50930e-43	1.00000
rad50	1.37837e-43	1.000000	1.37837e-43	1.00000
rad19syn	5.73604e-49	1.000000	5.73608e-49	1.00000
rad52	4.98853e-53	1.000000	4.98856e-53	1.00000
rad54	3.36924e-53	1.000000	3.36926e-53	1.00000
PAH10+CH3	2.29112e-53	1.000000	2.29114e-53	1.00000
rad43	5.25670e-54	1.000000	5.25673e-54	1.00000
rad62	3.37026e-56	1.000000	3.37028e-56	1.00000
rad51	3.63092e-59	1.000000	3.63095e-59	1.00000
rad70	1.68190e-61	1.000000	1.68191e-61	1.00000
PhcycC3H3_A+H	7.97207e-62	1.000000	7.97212e-62	1.00000
rad55	4.23726e-62	1.000000	4.23728e-62	1.00000
rad65	7.13080e-64	1.000000	7.13084e-64	1.00000
rad58	2.93841e-65	1.000000	2.93843e-65	1.00000
PAH1+H	9.13720e-67	1.000000	9.13726e-67	1.00000
rad34	6.95883e-69	1.000000	6.95888e-69	1.00000
rad42	7.80609e-73	1.000000	7.80614e-73	1.00000
rad41	1.16633e-73	1.000000	1.16633e-73	1.00000
rad47	1.85479e-74	1.000000	1.85480e-74	1.00000

0.100000000E-01 Pa, 90.000000 K

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

Total | 6.85154e-45 (1.00) | 6.85148e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.999742	0.999742	0.999751	0.999751
rad6	0.000239671	0.999982	0.000239673	0.999991
rad23	9.45680e-06	0.999991	9.45688e-06	1.00000
Benzyl+C2H2	8.45034e-06	1.000000	0.00000	1.00000
rad45	1.10763e-07	1.000000	1.10763e-07	1.00000
rad7	2.15071e-08	1.000000	2.15073e-08	1.00000
rad11	2.11157e-08	1.000000	2.11159e-08	1.00000
rad36	6.86836e-09	1.000000	6.86841e-09	1.00000
rad22	4.47963e-09	1.000000	4.47967e-09	1.00000
rad2	3.11421e-10	1.000000	3.11424e-10	1.00000
rad3	1.53763e-10	1.000000	1.53765e-10	1.00000
rad13	9.76335e-11	1.000000	9.76343e-11	1.00000
rad4	7.80164e-11	1.000000	7.80170e-11	1.00000
rad1	1.99616e-11	1.000000	1.99618e-11	1.00000
rad10	1.62155e-11	1.000000	1.62156e-11	1.00000
rad20	1.28221e-11	1.000000	1.28222e-11	1.00000
rad21	8.03547e-12	1.000000	8.03554e-12	1.00000
rad35	5.92712e-12	1.000000	5.92717e-12	1.00000
PAH9+H	1.72446e-12	1.000000	1.72448e-12	1.00000
rad18	1.97087e-13	1.000000	1.97089e-13	1.00000
rad33	1.84285e-13	1.000000	1.84287e-13	1.00000
rad30	1.20889e-13	1.000000	1.20890e-13	1.00000
rad38	2.41674e-14	1.000000	2.41676e-14	1.00000
rad28	5.26811e-15	1.000000	5.26815e-15	1.00000
rad24	1.37086e-15	1.000000	1.37087e-15	1.00000
rad26	1.63694e-16	1.000000	1.63696e-16	1.00000
rad15	1.02301e-16	1.000000	1.02302e-16	1.00000
rad25	1.06843e-17	1.000000	1.06844e-17	1.00000
rad27	7.92049e-18	1.000000	7.92055e-18	1.00000
PhCHCCH2+H	5.97735e-19	1.000000	5.97740e-19	1.00000
PhCCH+CH3	2.37728e-19	1.000000	2.37730e-19	1.00000
rad14	1.06849e-19	1.000000	1.06850e-19	1.00000
PhCCCH3+H	5.48501e-20	1.000000	5.48505e-20	1.00000
rad31	5.23736e-20	1.000000	5.23741e-20	1.00000
rad46	3.81627e-23	1.000000	3.81630e-23	1.00000
rad8	1.73940e-23	1.000000	1.73941e-23	1.00000
rad9	6.57993e-25	1.000000	6.57998e-25	1.00000
Ph+MeAc	1.38884e-25	1.000000	1.38885e-25	1.00000
PAH7+H	3.81089e-26	1.000000	3.81092e-26	1.00000
rad12	7.24972e-27	1.000000	7.24978e-27	1.00000
rad39	8.24806e-28	1.000000	8.24813e-28	1.00000
Ph+Allene	1.43623e-28	1.000000	1.43625e-28	1.00000
rad60syn	6.64525e-33	1.000000	6.64531e-33	1.00000
PhCH2CCH+H	8.08836e-34	1.000000	8.08843e-34	1.00000
rad60anti	3.36440e-34	1.000000	3.36443e-34	1.00000
rad37	1.97082e-34	1.000000	1.97084e-34	1.00000
rad5	2.68598e-37	1.000000	2.68600e-37	1.00000
PAH3+H	2.53455e-41	1.000000	2.53457e-41	1.00000
rad59	1.27271e-41	1.000000	1.27272e-41	1.00000
rad50	2.33903e-42	1.000000	2.33905e-42	1.00000
rad19syn	9.15105e-48	1.000000	9.15113e-48	1.00000
rad52	8.00039e-52	1.000000	8.00046e-52	1.00000
rad54	5.24940e-52	1.000000	5.24945e-52	1.00000
PAH10+CH3	3.61604e-52	1.000000	3.61607e-52	1.00000
rad43	8.29673e-53	1.000000	8.29680e-53	1.00000
rad62	5.25384e-55	1.000000	5.25388e-55	1.00000
rad51	5.61624e-58	1.000000	5.61629e-58	1.00000
rad70	2.61489e-60	1.000000	2.61491e-60	1.00000
PhcycC3H3_A+H	1.24244e-60	1.000000	1.24245e-60	1.00000
rad55	6.60050e-61	1.000000	6.60055e-61	1.00000
rad65	1.10337e-62	1.000000	1.10338e-62	1.00000
rad58	4.58908e-64	1.000000	4.58912e-64	1.00000
PAH1+H	1.47469e-65	1.000000	1.47470e-65	1.00000
rad34	1.13621e-67	1.000000	1.13622e-67	1.00000
rad42	1.45576e-71	1.000000	1.45577e-71	1.00000
rad41	2.69307e-72	1.000000	2.69309e-72	1.00000
rad47	2.62260e-73	1.000000	2.62263e-73	1.00000

0.100000000E-01 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02670e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999729	0.999729	0.999740	0.999740
rad6	0.000253723	0.999983	0.000253726	0.999994
Benzyl+C2H2	1.12933e-05	0.999994	0.00000	0.999994
rad23	5.87229e-06	1.000000	5.87236e-06	1.000000

rad45	6.79008e-08	1.000000	6.79016e-08	1.000000
rad7	2.25742e-08	1.000000	2.25745e-08	1.000000
rad11	1.73291e-08	1.000000	1.73293e-08	1.000000
rad36	4.20883e-09	1.000000	4.20887e-09	1.000000
rad22	2.74991e-09	1.000000	2.74994e-09	1.000000
rad2	5.00700e-10	1.000000	5.00705e-10	1.000000
rad3	1.78956e-10	1.000000	1.78958e-10	1.000000
rad13	1.03558e-10	1.000000	1.03559e-10	1.000000
rad4	9.08789e-11	1.000000	9.08800e-11	1.000000
rad1	3.22022e-11	1.000000	3.22026e-11	1.000000
rad10	2.63854e-11	1.000000	2.63857e-11	1.000000
rad20	1.09277e-11	1.000000	1.09278e-11	1.000000
rad35	9.00559e-12	1.000000	9.00569e-12	1.000000
rad21	6.85346e-12	1.000000	6.85353e-12	1.000000
PAH9+H	3.43761e-12	1.000000	3.43765e-12	1.000000
rad30	6.32295e-13	1.000000	6.32302e-13	1.000000
rad33	1.95763e-13	1.000000	1.95765e-13	1.000000
rad18	1.55493e-13	1.000000	1.55494e-13	1.000000
rad38	7.55819e-14	1.000000	7.55827e-14	1.000000
rad28	2.48538e-14	1.000000	2.48541e-14	1.000000
rad15	1.16318e-15	1.000000	1.16319e-15	1.000000
rad26	9.74528e-16	1.000000	9.74539e-16	1.000000
rad24	8.55617e-16	1.000000	8.55627e-16	1.000000
rad25	7.48657e-17	1.000000	7.48666e-17	1.000000
rad27	2.45575e-17	1.000000	2.45578e-17	1.000000
PhCHCCH2+H	6.90471e-18	1.000000	6.90479e-18	1.000000
PhCCH+CH3	3.39040e-18	1.000000	3.39044e-18	1.000000
PhCCCH3+H	8.15319e-19	1.000000	8.15328e-19	1.000000
rad14	7.23273e-19	1.000000	7.23281e-19	1.000000
rad31	6.58920e-20	1.000000	6.58927e-20	1.000000
rad46	1.26522e-21	1.000000	1.26523e-21	1.000000
rad8	3.85007e-22	1.000000	3.85011e-22	1.000000
rad9	2.66124e-23	1.000000	2.66127e-23	1.000000
Ph+MeAc	5.04885e-24	1.000000	5.04890e-24	1.000000
PAH7+H	1.30349e-24	1.000000	1.30350e-24	1.000000
rad12	2.36512e-25	1.000000	2.36514e-25	1.000000
rad39	3.18687e-26	1.000000	3.18690e-26	1.000000
Ph+Allene	5.69135e-27	1.000000	5.69141e-27	1.000000
rad60syn	2.63107e-31	1.000000	2.63110e-31	1.000000
PhCH2CCH+H	3.37739e-32	1.000000	3.37743e-32	1.000000
rad60anti	1.34754e-32	1.000000	1.34755e-32	1.000000
rad37	8.35353e-33	1.000000	8.35362e-33	1.000000
rad5	1.14102e-35	1.000000	1.14103e-35	1.000000
PAH3+H	1.06927e-39	1.000000	1.06928e-39	1.000000
rad59	5.36976e-40	1.000000	5.36982e-40	1.000000
rad50	9.89627e-41	1.000000	9.89638e-41	1.000000
rad19syn	3.74734e-46	1.000000	3.74738e-46	1.000000
rad52	3.28536e-50	1.000000	3.28540e-50	1.000000
rad54	2.13277e-50	1.000000	2.13279e-50	1.000000
PAH10+CH3	1.50409e-50	1.000000	1.50410e-50	1.000000
rad43	3.45194e-51	1.000000	3.45198e-51	1.000000
rad62	2.17398e-53	1.000000	2.17401e-53	1.000000
rad51	2.28720e-56	1.000000	2.28722e-56	1.000000
rad70	1.09289e-58	1.000000	1.09291e-58	1.000000
PhcycC3H3_A+H	5.21547e-59	1.000000	5.21553e-59	1.000000
rad55	2.76851e-59	1.000000	2.76855e-59	1.000000
rad65	4.56499e-61	1.000000	4.56504e-61	1.000000
rad58	1.93342e-62	1.000000	1.93345e-62	1.000000
PAH1+H	6.53146e-64	1.000000	6.53154e-64	1.000000
rad34	5.11340e-66	1.000000	5.11346e-66	1.000000
rad42	9.61299e-70	1.000000	9.61310e-70	1.000000
rad41	2.75932e-70	1.000000	2.75935e-70	1.000000
rad47	1.02789e-71	1.000000	1.02790e-71	1.000000

0.100000000E-01 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04926e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999712	0.999712	0.999727	0.999727
rad6	0.000269502	0.999982	0.000269506	0.999997
Benzyl+C2H2	1.49682e-05	0.999996	0.00000	0.999997
rad23	3.78944e-06	1.00000	3.78949e-06	1.00000
rad45	4.33353e-08	1.00000	4.33359e-08	1.00000
rad7	2.38030e-08	1.00000	2.38034e-08	1.00000
rad11	1.48361e-08	1.00000	1.48363e-08	1.00000
rad36	2.68551e-09	1.00000	2.68555e-09	1.00000

rad22	1.75773e-09	1.00000	1.75775e-09	1.00000
rad2	7.97472e-10	1.00000	7.97483e-10	1.00000
rad3	2.05837e-10	1.00000	2.05840e-10	1.00000
rad13	1.10236e-10	1.00000	1.10237e-10	1.00000
rad4	1.04631e-10	1.00000	1.04633e-10	1.00000
rad1	5.14774e-11	1.00000	5.14782e-11	1.00000
rad10	4.23669e-11	1.00000	4.23676e-11	1.00000
rad35	1.30828e-11	1.00000	1.30830e-11	1.00000
rad20	9.42958e-12	1.00000	9.42972e-12	1.00000
PAH9+H	6.20395e-12	1.00000	6.20404e-12	1.00000
rad21	5.91898e-12	1.00000	5.91907e-12	1.00000
rad30	2.44374e-12	1.00000	2.44377e-12	1.00000
rad33	2.08699e-13	1.00000	2.08702e-13	1.00000
rad38	1.95807e-13	1.00000	1.95810e-13	1.00000
rad18	1.25496e-13	1.00000	1.25498e-13	1.00000
rad28	1.02250e-13	1.00000	1.02252e-13	1.00000
rad15	8.46909e-15	1.00000	8.46922e-15	1.00000
rad26	5.26195e-15	1.00000	5.26203e-15	1.00000
rad24	5.55339e-16	1.00000	5.55347e-16	1.00000
rad25	3.57880e-16	1.00000	3.57886e-16	1.00000
PhCHCCH2+H	7.19518e-17	1.00000	7.19529e-17	1.00000
rad27	6.73887e-17	1.00000	6.73897e-17	1.00000
PhCCH+CH3	4.33393e-17	1.00000	4.33400e-17	1.00000
PhCCCH3+H	1.11136e-17	1.00000	1.11138e-17	1.00000
rad14	4.00636e-18	1.00000	4.00642e-18	1.00000
rad31	8.30324e-20	1.00000	8.30337e-20	1.00000
rad46	2.23539e-20	1.00000	2.23543e-20	1.00000
rad8	8.36475e-21	1.00000	8.36487e-21	1.00000
rad9	1.01290e-21	1.00000	1.01291e-21	1.00000
Ph+MeAc	2.44644e-22	1.00000	2.44648e-22	1.00000
PAH7+H	5.02020e-23	1.00000	5.02028e-23	1.00000
rad12	8.87641e-24	1.00000	8.87654e-24	1.00000
rad39	1.63732e-24	1.00000	1.63734e-24	1.00000
Ph+Allene	6.40787e-25	1.00000	6.40797e-25	1.00000
rad60syn	2.70125e-26	1.00000	2.70129e-26	1.00000
rad60anti	1.02613e-27	1.00000	1.02614e-27	1.00000
PhCH2CCH+H	3.28789e-30	1.00000	3.28794e-30	1.00000
rad37	8.22196e-31	1.00000	8.22208e-31	1.00000
rad5	1.13190e-33	1.00000	1.13192e-33	1.00000
PAH3+H	1.05744e-37	1.00000	1.05746e-37	1.00000
rad59	5.30940e-38	1.00000	5.30948e-38	1.00000
rad50	1.00081e-38	1.00000	1.00082e-38	1.00000
rad19syn	3.68826e-44	1.00000	3.68832e-44	1.00000
rad52	3.24384e-48	1.00000	3.24389e-48	1.00000
rad54	2.10959e-48	1.00000	2.10962e-48	1.00000
PAH10+CH3	1.55683e-48	1.00000	1.55685e-48	1.00000
rad43	3.57602e-49	1.00000	3.57607e-49	1.00000
rad62	2.25045e-51	1.00000	2.25048e-51	1.00000
rad51	2.29403e-54	1.00000	2.29406e-54	1.00000
rad70	1.14310e-56	1.00000	1.14311e-56	1.00000
PhcycC3H3_A+H	5.49153e-57	1.00000	5.49161e-57	1.00000
rad55	2.91142e-57	1.00000	2.91147e-57	1.00000
rad65	4.72983e-59	1.00000	4.72990e-59	1.00000
rad58	2.04707e-60	1.00000	2.04710e-60	1.00000
PAH1+H	7.50656e-62	1.00000	7.50667e-62	1.00000
rad34	6.04309e-64	1.00000	6.04318e-64	1.00000
rad42	2.85151e-67	1.00000	2.85155e-67	1.00000
rad41	1.26156e-67	1.00000	1.26158e-67	1.00000
rad47	1.06480e-69	1.00000	1.06482e-69	1.00000

0.100000000E-01 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87094e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999690	0.999690	0.999710	0.999710
rad6	0.000287229	0.999977	0.000287235	0.999977
Benzyl+C2H2	1.97145e-05	0.999997	0.00000	0.999997
rad23	2.52259e-06	0.999999	2.52264e-06	1.000000
rad45	2.85721e-08	0.999999	2.85726e-08	1.000000
rad7	2.52079e-08	1.000000	2.52084e-08	1.000000
rad11	1.31860e-08	1.000000	1.31863e-08	1.000000
rad36	1.77054e-09	1.000000	1.77058e-09	1.000000
rad2	1.26253e-09	1.000000	1.26255e-09	1.000000
rad22	1.16086e-09	1.000000	1.16088e-09	1.000000
rad3	2.34839e-10	1.000000	2.34844e-10	1.000000
rad4	1.19501e-10	1.000000	1.19503e-10	1.000000

rad13	1.17765e-10	1.000000	1.17767e-10	1.000000
rad1	8.18234e-11	1.000000	8.18250e-11	1.000000
rad10	6.74328e-11	1.000000	6.74341e-11	1.000000
rad35	1.84608e-11	1.000000	1.84612e-11	1.000000
PAH9+H	1.04302e-11	1.000000	1.04304e-11	1.000000
rad20	8.21580e-12	1.000000	8.21596e-12	1.000000
rad30	7.55577e-12	1.000000	7.55592e-12	1.000000
rad21	5.16204e-12	1.000000	5.16215e-12	1.000000
rad38	4.42196e-13	1.000000	4.42205e-13	1.000000
rad28	3.68152e-13	1.000000	3.68159e-13	1.000000
rad33	2.23286e-13	1.000000	2.23290e-13	1.000000
rad18	1.03077e-13	1.000000	1.03079e-13	1.000000
rad15	4.42951e-14	1.000000	4.42959e-14	1.000000
rad26	2.51470e-14	1.000000	2.51475e-14	1.000000
rad25	1.27626e-15	1.000000	1.27629e-15	1.000000
PhCHCCH2+H	6.17461e-16	1.000000	6.17473e-16	1.000000
PhCCH+CH3	4.39395e-16	1.000000	4.39404e-16	1.000000
rad24	3.72056e-16	1.000000	3.72064e-16	1.000000
rad27	1.65119e-16	1.000000	1.65123e-16	1.000000
PhCCCH3+H	1.21020e-16	1.000000	1.21023e-16	1.000000
rad14	1.76563e-17	1.000000	1.76567e-17	1.000000
rad46	2.46046e-19	1.000000	2.46051e-19	1.000000
rad8	1.39254e-19	1.000000	1.39257e-19	1.000000
rad31	1.05467e-19	1.000000	1.05469e-19	1.000000
rad9	2.49459e-20	1.000000	2.49464e-20	1.000000
Ph+MeAc	8.50393e-21	1.000000	8.50410e-21	1.000000
PAH7+H	1.42968e-21	1.000000	1.42970e-21	1.000000
rad12	2.50980e-22	1.000000	2.50985e-22	1.000000
rad39	6.04152e-23	1.000000	6.04164e-23	1.000000
Ph+Allene	4.14077e-23	1.000000	4.14085e-23	1.000000
rad60syn	1.65302e-24	1.000000	1.65305e-24	1.000000
rad60anti	9.93884e-26	1.000000	9.93904e-26	1.000000
PhCH2CCH+H	4.22825e-28	1.000000	4.22833e-28	1.000000
rad37	1.05627e-28	1.000000	1.05629e-28	1.000000
rad5	1.47700e-31	1.000000	1.47703e-31	1.000000
PAH3+H	1.38780e-35	1.000000	1.38782e-35	1.000000
rad59	6.96530e-36	1.000000	6.96544e-36	1.000000
rad50	1.40938e-36	1.000000	1.40940e-36	1.000000
rad19syn	4.92028e-42	1.000000	4.92037e-42	1.000000
rad52	4.38778e-46	1.000000	4.38786e-46	1.000000
rad54	2.86042e-46	1.000000	2.86047e-46	1.000000
PAH10+CH3	2.30643e-46	1.000000	2.30648e-46	1.000000
rad43	5.30899e-47	1.000000	5.30910e-47	1.000000
rad62	3.36307e-49	1.000000	3.36314e-49	1.000000
rad51	3.27153e-52	1.000000	3.27159e-52	1.000000
rad70	1.70014e-54	1.000000	1.70017e-54	1.000000
PhcycC3H3_A+H	8.26508e-55	1.000000	8.26524e-55	1.000000
rad55	4.37099e-55	1.000000	4.37107e-55	1.000000
rad65	7.32467e-57	1.000000	7.32482e-57	1.000000
rad58	3.11211e-58	1.000000	3.11217e-58	1.000000
PAH1+H	1.38624e-59	1.000000	1.38627e-59	1.000000
rad34	1.21070e-61	1.000000	1.21072e-61	1.000000
rad42	2.09354e-64	1.000000	2.09358e-64	1.000000
rad41	1.11797e-64	1.000000	1.11799e-64	1.000000
rad47	2.07462e-67	1.000000	2.07466e-67	1.000000

0.100000000E-01 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.94360e-35 (1.00)	3.94350e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999665	0.999665	0.999691	0.999691
rad6	0.000307153	0.999972	0.000307161	0.999998
Benzyl+C2H2	2.58370e-05	0.999998	0.00000	0.999998
rad23	1.72274e-06	1.000000	1.72279e-06	1.000000
rad7	2.68066e-08	1.000000	2.68073e-08	1.000000
rad45	1.93493e-08	1.000000	1.93498e-08	1.000000
rad11	1.21164e-08	1.000000	1.21167e-08	1.000000
rad2	1.98937e-09	1.000000	1.98942e-09	1.000000
rad36	1.19921e-09	1.000000	1.19924e-09	1.000000
rad22	7.87544e-10	1.000000	7.87565e-10	1.000000
rad3	2.66640e-10	1.000000	2.66647e-10	1.000000
rad4	1.35842e-10	1.000000	1.35845e-10	1.000000
rad1	1.29491e-10	1.000000	1.29494e-10	1.000000
rad13	1.26253e-10	1.000000	1.26256e-10	1.000000
rad10	1.06610e-10	1.000000	1.06613e-10	1.000000
rad35	2.55729e-11	1.000000	2.55736e-11	1.000000

rad30	1.97440e-11	1.000000	1.97445e-11	1.000000
PAH9+H	1.66719e-11	1.000000	1.66723e-11	1.000000
rad20	7.21318e-12	1.000000	7.21336e-12	1.000000
rad21	4.53690e-12	1.000000	4.53701e-12	1.000000
rad28	1.18262e-12	1.000000	1.18265e-12	1.000000
rad38	9.02685e-13	1.000000	9.02708e-13	1.000000
rad33	2.39743e-13	1.000000	2.39750e-13	1.000000
rad15	1.80149e-13	1.000000	1.80154e-13	1.000000
rad26	1.06247e-13	1.000000	1.06249e-13	1.000000
rad18	8.58379e-14	1.000000	8.58401e-14	1.000000
PhCHCCH2+H	4.32779e-15	1.000000	4.32790e-15	1.000000
rad25	3.62873e-15	1.000000	3.62882e-15	1.000000
PhCCH+CH3	3.51540e-15	1.000000	3.51549e-15	1.000000
PhCCCH3+H	1.03525e-15	1.000000	1.03528e-15	1.000000
rad27	3.67059e-16	1.000000	3.67069e-16	1.000000
rad24	2.55872e-16	1.000000	2.55879e-16	1.000000
rad14	6.33176e-17	1.000000	6.33192e-17	1.000000
rad46	1.88516e-18	1.000000	1.88521e-18	1.000000
rad8	1.70725e-18	1.000000	1.70729e-18	1.000000
rad9	4.02618e-19	1.000000	4.02628e-19	1.000000
Ph+MeAc	1.99551e-19	1.000000	1.99556e-19	1.000000
rad31	1.35814e-19	1.000000	1.35818e-19	1.000000
PAH7+H	2.83579e-20	1.000000	2.83586e-20	1.000000
rad12	4.95269e-21	1.000000	4.95281e-21	1.000000
Ph+Allene	1.51229e-21	1.000000	1.51233e-21	1.000000
rad39	1.50506e-21	1.000000	1.50510e-21	1.000000
rad60syn	5.23055e-23	1.000000	5.23068e-23	1.000000
rad60anti	4.00166e-24	1.000000	4.00176e-24	1.000000
PhCH2CCH+H	9.24573e-26	1.000000	9.24597e-26	1.000000
rad37	2.15419e-26	1.000000	2.15424e-26	1.000000
rad5	2.59942e-29	1.000000	2.59949e-29	1.000000
PAH3+H	2.51932e-33	1.000000	2.51938e-33	1.000000
rad59	1.26373e-33	1.000000	1.26376e-33	1.000000
rad50	3.08918e-34	1.000000	3.08926e-34	1.000000
rad19syn	9.23632e-40	1.000000	9.23656e-40	1.000000
rad52	8.67093e-44	1.000000	8.67115e-44	1.000000
rad54	5.51591e-44	1.000000	5.51605e-44	1.000000
PAH10+CH3	5.14252e-44	1.000000	5.14265e-44	1.000000
rad43	1.18830e-44	1.000000	1.18833e-44	1.000000
rad62	7.74318e-47	1.000000	7.74338e-47	1.000000
rad51	7.65499e-50	1.000000	7.65519e-50	1.000000
rad70	3.85230e-52	1.000000	3.85240e-52	1.000000
PhcycC3H3_A+H	1.92289e-52	1.000000	1.92294e-52	1.000000
rad55	1.01030e-52	1.000000	1.01033e-52	1.000000
rad65	2.26192e-54	1.000000	2.26198e-54	1.000000
rad58	7.41086e-56	1.000000	7.41105e-56	1.000000
PAH1+H	5.51185e-57	1.000000	5.51200e-57	1.000000
rad34	5.98084e-59	1.000000	5.98099e-59	1.000000
rad42	2.63371e-61	1.000000	2.63378e-61	1.000000
rad41	1.48390e-61	1.000000	1.48394e-61	1.000000
rad47	1.37301e-64	1.000000	1.37305e-64	1.000000

0.100000000E-01 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.44756e-33 (1.00)	1.44751e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999635	0.999635	0.999669	0.999669
rad6	0.000329544	0.999965	0.000329555	0.999999
Benzyl+C2H2	3.37192e-05	0.999998	0.00000	0.999999
rad23	1.20188e-06	0.999999	1.20192e-06	1.000000
rad7	2.86196e-08	0.999999	2.86206e-08	1.000000
rad45	1.33998e-08	1.000000	1.34002e-08	1.000000
rad11	1.14675e-08	1.000000	1.14679e-08	1.000000
rad2	3.11803e-09	1.000000	3.11813e-09	1.000000
rad36	8.30778e-10	1.000000	8.30806e-10	1.000000
rad22	5.46402e-10	1.000000	5.46421e-10	1.000000
rad3	3.02215e-10	1.000000	3.02225e-10	1.000000
rad1	2.03918e-10	1.000000	2.03925e-10	1.000000
rad10	1.67419e-10	1.000000	1.67424e-10	1.000000
rad4	1.54163e-10	1.000000	1.54168e-10	1.000000
rad13	1.35822e-10	1.000000	1.35827e-10	1.000000
rad30	4.53419e-11	1.000000	4.53434e-11	1.000000
rad35	3.50225e-11	1.000000	3.50237e-11	1.000000
PAH9+H	2.57054e-11	1.000000	2.57063e-11	1.000000
rad20	6.37193e-12	1.000000	6.37215e-12	1.000000
rad21	4.01244e-12	1.000000	4.01257e-12	1.000000

rad28	3.45639e-12	1.000000	3.45651e-12	1.000000
rad38	1.70902e-12	1.000000	1.70908e-12	1.000000
rad15	6.02781e-13	1.000000	6.02802e-13	1.000000
rad26	3.99280e-13	1.000000	3.99293e-13	1.000000
rad33	2.58315e-13	1.000000	2.58324e-13	1.000000
rad18	7.22699e-14	1.000000	7.22724e-14	1.000000
PhCHCCH2+H	2.52243e-14	1.000000	2.52251e-14	1.000000
PhCCH+CH3	2.27948e-14	1.000000	2.27956e-14	1.000000
rad25	8.63408e-15	1.000000	8.63437e-15	1.000000
PhCCCH3+H	7.11022e-15	1.000000	7.11046e-15	1.000000
rad27	7.51872e-16	1.000000	7.51897e-16	1.000000
rad14	1.90706e-16	1.000000	1.90712e-16	1.000000
rad24	1.79875e-16	1.000000	1.79881e-16	1.000000
rad8	1.58310e-17	1.000000	1.58315e-17	1.000000
rad46	1.08901e-17	1.000000	1.08905e-17	1.000000
rad9	4.55740e-18	1.000000	4.55755e-18	1.000000
Ph+MeAc	3.24063e-18	1.000000	3.24074e-18	1.000000
PAH7+H	4.02211e-19	1.000000	4.02225e-19	1.000000
rad31	1.78114e-19	1.000000	1.78120e-19	1.000000
rad12	6.94972e-20	1.000000	6.94995e-20	1.000000
Ph+Allene	3.44770e-20	1.000000	3.44782e-20	1.000000
rad39	2.59191e-20	1.000000	2.59199e-20	1.000000
rad60syn	1.00153e-21	1.000000	1.00156e-21	1.000000
rad60anti	9.30741e-23	1.000000	9.30773e-23	1.000000
PhCH2CCH+H	6.03080e-24	1.000000	6.03100e-24	1.000000
rad37	1.55840e-24	1.000000	1.55845e-24	1.000000
rad5	3.93774e-27	1.000000	3.93787e-27	1.000000
PAH3+H	1.15539e-28	1.000000	1.15543e-28	1.000000
rad59	5.77702e-29	1.000000	5.77721e-29	1.000000
rad50	7.57351e-30	1.000000	7.57377e-30	1.000000
rad19syn	1.76794e-37	1.000000	1.76800e-37	1.000000
rad52	1.82202e-41	1.000000	1.82208e-41	1.000000
PAH10+CH3	1.20333e-41	1.000000	1.20337e-41	1.000000
rad54	1.09409e-41	1.000000	1.09412e-41	1.000000
rad43	2.79362e-42	1.000000	2.79371e-42	1.000000
rad62	1.94154e-44	1.000000	1.94161e-44	1.000000
rad51	2.32453e-47	1.000000	2.32461e-47	1.000000
rad70	9.98120e-50	1.000000	9.98154e-50	1.000000
PhcycC3H3_A+H	5.25124e-50	1.000000	5.25142e-50	1.000000
rad55	2.71805e-50	1.000000	2.71815e-50	1.000000
rad65	1.11058e-51	1.000000	1.11062e-51	1.000000
rad58	2.12043e-53	1.000000	2.12050e-53	1.000000
PAH1+H	3.55440e-54	1.000000	3.55452e-54	1.000000
rad34	5.00384e-56	1.000000	5.00401e-56	1.000000
rad42	3.05916e-58	1.000000	3.05927e-58	1.000000
rad41	1.74070e-58	1.000000	1.74076e-58	1.000000
rad47	1.34919e-61	1.000000	1.34924e-61	1.000000

0.100000000E-01 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27722e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999601	0.999601	0.999644	0.999644
rad6	0.000354694	0.999956	0.000354710	0.999999
Benzyl+C2H2	4.38395e-05	1.000000	0.000000	0.999999
rad23	8.53789e-07	1.000000	8.53827e-07	1.000000
rad7	3.06696e-08	1.000000	3.06709e-08	1.000000
rad11	1.11390e-08	1.000000	1.11395e-08	1.000000
rad45	9.45708e-09	1.000000	9.45750e-09	1.000000
rad2	4.85112e-09	1.000000	4.85133e-09	1.000000
rad36	5.86685e-10	1.000000	5.86711e-10	1.000000
rad22	3.86361e-10	1.000000	3.86378e-10	1.000000
rad3	3.42907e-10	1.000000	3.42922e-10	1.000000
rad1	3.18895e-10	1.000000	3.18909e-10	1.000000
rad10	2.60731e-10	1.000000	2.60742e-10	1.000000
rad4	1.75165e-10	1.000000	1.75173e-10	1.000000
rad13	1.46606e-10	1.000000	1.46612e-10	1.000000
rad30	9.41527e-11	1.000000	9.41569e-11	1.000000
rad35	4.76303e-11	1.000000	4.76324e-11	1.000000
PAH9+H	3.86213e-11	1.000000	3.86230e-11	1.000000
rad28	9.33844e-12	1.000000	9.33885e-12	1.000000
rad20	5.65708e-12	1.000000	5.65732e-12	1.000000
rad21	3.56681e-12	1.000000	3.56696e-12	1.000000
rad38	3.05614e-12	1.000000	3.05627e-12	1.000000
rad15	1.72906e-12	1.000000	1.72913e-12	1.000000
rad26	1.34504e-12	1.000000	1.34510e-12	1.000000

rad33	2.79268e-13	1.00000	2.79280e-13	1.000000
PhCHCCH2+H	1.25105e-13	1.00000	1.25111e-13	1.000000
PhCCH+CH3	1.23488e-13	1.00000	1.23494e-13	1.000000
rad18	6.13865e-14	1.00000	6.13892e-14	1.000000
PhCCCH3+H	4.03671e-14	1.00000	4.03689e-14	1.000000
rad25	1.78180e-14	1.00000	1.78188e-14	1.000000
rad27	1.43762e-15	1.00000	1.43768e-15	1.000000
rad14	4.96693e-16	1.00000	4.96715e-16	1.000000
rad24	1.28837e-16	1.00000	1.28843e-16	1.000000
rad8	1.15495e-16	1.00000	1.15500e-16	1.000000
rad46	5.02986e-17	1.00000	5.03008e-17	1.000000
rad9	3.85973e-17	1.00000	3.85990e-17	1.000000
Ph+MeAc	3.83255e-17	1.00000	3.83272e-17	1.000000
PAH7+H	4.26845e-18	1.00000	4.26863e-18	1.000000
rad12	7.24343e-19	1.00000	7.24374e-19	1.000000
Ph+Allene	5.37419e-19	1.00000	5.37442e-19	1.000000
rad39	3.24411e-19	1.00000	3.24425e-19	1.000000
rad31	2.38476e-19	1.00000	2.38486e-19	1.000000
rad60syn	1.28975e-20	1.00000	1.28981e-20	1.000000
rad60anti	1.41579e-21	1.00000	1.41585e-21	1.000000
PhCH2CCH+H	1.94136e-22	1.00000	1.94144e-22	1.000000
rad37	4.77034e-23	1.00000	4.77055e-23	1.000000
rad5	1.84873e-25	1.00000	1.84881e-25	1.000000
PAH3+H	1.81469e-26	1.00000	1.81477e-26	1.000000
rad59	8.17921e-27	1.00000	8.17956e-27	1.000000
rad50	5.46863e-28	1.00000	5.46887e-28	1.000000
rad19syn	8.43157e-35	1.00000	8.43194e-35	1.000000
rad52	9.27159e-39	1.00000	9.27199e-39	1.000000
PAH10+CH3	5.82404e-39	1.00000	5.82429e-39	1.000000
rad54	5.39064e-39	1.00000	5.39088e-39	1.000000
rad43	1.35361e-39	1.00000	1.35367e-39	1.000000
rad62	1.01422e-41	1.00000	1.01426e-41	1.000000
rad51	1.72187e-44	1.00000	1.72194e-44	1.000000
rad70	6.04833e-47	1.00000	6.04860e-47	1.000000
PhcycC3H3_A+H	3.32205e-47	1.00000	3.32220e-47	1.000000
rad55	1.69582e-47	1.00000	1.69589e-47	1.000000
rad65	1.22584e-48	1.00000	1.22590e-48	1.000000
rad58	1.39762e-50	1.00000	1.39768e-50	1.000000
PAH1+H	4.01635e-51	1.00000	4.01653e-51	1.000000
rad34	6.56843e-53	1.00000	6.56871e-53	1.000000
rad42	4.84589e-55	1.00000	4.84610e-55	1.000000
rad41	2.79380e-55	1.00000	2.79393e-55	1.000000
rad47	2.25648e-58	1.00000	2.25658e-58	1.000000

0.100000000E-01 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01140e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999560	0.999560	0.999616	0.999616
rad6	0.000382916	0.999943	0.000382938	0.999999
Benzyl+C2H2	5.67893e-05	1.000000	0.000000	0.999999
rad23	6.16002e-07	1.000000	6.16037e-07	1.000000
rad7	3.29811e-08	1.000000	3.29830e-08	1.000000
rad11	1.10663e-08	1.000000	1.10670e-08	1.000000
rad2	7.47004e-09	1.000000	7.47047e-09	1.000000
rad45	6.78416e-09	1.000000	6.78454e-09	1.000000
rad1	4.93803e-10	1.000000	4.93831e-10	1.000000
rad36	4.21227e-10	1.000000	4.21251e-10	1.000000
rad10	4.01633e-10	1.000000	4.01656e-10	1.000000
rad3	3.90498e-10	1.000000	3.90521e-10	1.000000
rad22	2.77683e-10	1.000000	2.77699e-10	1.000000
rad4	1.99782e-10	1.000000	1.99793e-10	1.000000
rad30	1.80553e-10	1.000000	1.80563e-10	1.000000
rad13	1.58747e-10	1.000000	1.58756e-10	1.000000
rad35	6.44950e-11	1.000000	6.44987e-11	1.000000
PAH9+H	5.69431e-11	1.000000	5.69464e-11	1.000000
rad28	2.35998e-11	1.000000	2.36011e-11	1.000000
rad38	5.22950e-12	1.000000	5.22979e-12	1.000000
rad20	5.04329e-12	1.000000	5.04358e-12	1.000000
rad15	4.38430e-12	1.000000	4.38455e-12	1.000000
rad26	4.09338e-12	1.000000	4.09361e-12	1.000000
rad21	3.18419e-12	1.000000	3.18438e-12	1.000000
PhCCH+CH3	5.74081e-13	1.000000	5.74114e-13	1.000000
PhCHCCH2+H	5.39549e-13	1.000000	5.39579e-13	1.000000
rad33	3.02893e-13	1.000000	3.02911e-13	1.000000
PhCCCH3+H	1.94676e-13	1.000000	1.94687e-13	1.000000

rad18	5.25180e-14	1.00000	5.25210e-14	1.000000
rad25	3.27617e-14	1.00000	3.27636e-14	1.000000
rad27	2.59204e-15	1.00000	2.59219e-15	1.000000
rad14	1.14623e-15	1.00000	1.14629e-15	1.000000
rad8	6.87791e-16	1.00000	6.87830e-16	1.000000
Ph+MeAc	3.46283e-16	1.00000	3.46303e-16	1.000000
rad9	2.57761e-16	1.00000	2.57775e-16	1.000000
rad46	1.94097e-16	1.00000	1.94108e-16	1.000000
rad24	9.37888e-17	1.00000	9.37941e-17	1.000000
PAH7+H	3.53611e-17	1.00000	3.53631e-17	1.000000
Ph+Allene	6.11240e-18	1.00000	6.11275e-18	1.000000
rad12	5.85514e-18	1.00000	5.85547e-18	1.000000
rad39	3.09200e-18	1.00000	3.09217e-18	1.000000
rad31	3.25925e-19	1.00000	3.25943e-19	1.000000
rad60syn	1.20491e-19	1.00000	1.20497e-19	1.000000
rad60anti	1.52818e-20	1.00000	1.52827e-20	1.000000
PhCH2CCH+H	3.83939e-21	1.00000	3.83961e-21	1.000000
rad37	9.12371e-22	1.00000	9.12423e-22	1.000000
rad5	4.35738e-24	1.00000	4.35762e-24	1.000000
PAH3+H	5.44242e-25	1.00000	5.44273e-25	1.000000
rad59	2.29783e-25	1.00000	2.29796e-25	1.000000
rad50	1.44276e-26	1.00000	1.44285e-26	1.000000
rad19syn	3.90135e-32	1.00000	3.90157e-32	1.000000
rad52	4.23473e-36	1.00000	4.23497e-36	1.000000
rad54	2.57140e-36	1.00000	2.57155e-36	1.000000
PAH10+CH3	2.36505e-36	1.00000	2.36518e-36	1.000000
rad43	5.48274e-37	1.00000	5.48305e-37	1.000000
rad62	4.30301e-39	1.00000	4.30325e-39	1.000000
rad51	8.88368e-42	1.00000	8.88419e-42	1.000000
rad70	3.06560e-44	1.00000	3.06578e-44	1.000000
PhcycC3H3_A+H	1.70427e-44	1.00000	1.70436e-44	1.000000
rad55	8.65497e-45	1.00000	8.65546e-45	1.000000
rad65	8.17194e-46	1.00000	8.17240e-46	1.000000
rad58	7.30007e-48	1.00000	7.30048e-48	1.000000
PAH1+H	2.72118e-48	1.00000	2.72133e-48	1.000000
rad34	4.89348e-50	1.00000	4.89376e-50	1.000000
rad42	4.46701e-52	1.00000	4.46726e-52	1.000000
rad41	2.63751e-52	1.00000	2.63766e-52	1.000000
rad47	2.06678e-55	1.00000	2.06690e-55	1.000000

0.100000000E-01 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54780e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999512	0.999512	0.999585	0.999585
rad6	0.000414537	0.999927	0.000414568	1.000000
Benzyl+C2H2	7.32929e-05	1.000000	0.00000	1.000000
rad23	4.50505e-07	1.00000	4.50538e-07	1.00000
rad7	3.55805e-08	1.00000	3.55831e-08	1.00000
rad2	1.13481e-08	1.00000	1.13489e-08	1.00000
rad11	1.12076e-08	1.00000	1.12084e-08	1.00000
rad45	4.93656e-09	1.00000	4.93692e-09	1.00000
rad1	7.54727e-10	1.00000	7.54783e-10	1.00000
rad10	6.10127e-10	1.00000	6.10172e-10	1.00000
rad3	4.47267e-10	1.00000	4.47300e-10	1.00000
rad30	3.24866e-10	1.00000	3.24890e-10	1.00000
rad36	3.06859e-10	1.00000	3.06882e-10	1.00000
rad4	2.29209e-10	1.00000	2.29226e-10	1.00000
rad22	2.02426e-10	1.00000	2.02441e-10	1.00000
rad13	1.72399e-10	1.00000	1.72412e-10	1.00000
rad35	8.70698e-11	1.00000	8.70762e-11	1.00000
PAH9+H	8.27795e-11	1.00000	8.27856e-11	1.00000
rad28	5.62411e-11	1.00000	5.62452e-11	1.00000
rad26	1.13388e-11	1.00000	1.13397e-11	1.00000
rad15	1.00585e-11	1.00000	1.00593e-11	1.00000
rad38	8.64276e-12	1.00000	8.64339e-12	1.00000
rad20	4.51183e-12	1.00000	4.51216e-12	1.00000
rad21	2.85290e-12	1.00000	2.85311e-12	1.00000
PhCCH+CH3	2.34115e-12	1.00000	2.34132e-12	1.00000
PhCHCCH2+H	2.06141e-12	1.00000	2.06156e-12	1.00000
PhCCCH3+H	8.16188e-13	1.00000	8.16248e-13	1.00000
rad33	3.29504e-13	1.00000	3.29528e-13	1.00000
rad25	5.47883e-14	1.00000	5.47923e-14	1.00000
rad18	4.51966e-14	1.00000	4.51999e-14	1.00000
rad27	4.44142e-15	1.00000	4.44175e-15	1.00000
rad8	3.44852e-15	1.00000	3.44877e-15	1.00000

Ph+MeAc	2.49006e-15	1.00000	2.49024e-15	1.00000
rad14	2.39043e-15	1.00000	2.39061e-15	1.00000
rad9	1.41454e-15	1.00000	1.41465e-15	1.00000
rad46	6.47110e-16	1.00000	6.47157e-16	1.00000
PAH7+H	2.37045e-16	1.00000	2.37062e-16	1.00000
rad24	6.92585e-17	1.00000	6.92636e-17	1.00000
Ph+Allene	5.34662e-17	1.00000	5.34701e-17	1.00000
rad12	3.81111e-17	1.00000	3.81139e-17	1.00000
rad39	2.33590e-17	1.00000	2.33607e-17	1.00000
rad60syn	8.65105e-19	1.00000	8.65168e-19	1.00000
rad31	4.53436e-19	1.00000	4.53469e-19	1.00000
rad60anti	1.24489e-19	1.00000	1.24498e-19	1.00000
PhCH2CCH+H	5.38044e-20	1.00000	5.38083e-20	1.00000
rad37	1.22963e-20	1.00000	1.22972e-20	1.00000
rad5	6.95978e-23	1.00000	6.96029e-23	1.00000
PAH3+H	9.99360e-24	1.00000	9.99433e-24	1.00000
rad59	4.06963e-24	1.00000	4.06993e-24	1.00000
rad50	2.46856e-25	1.00000	2.46874e-25	1.00000
rad19syn	3.76060e-29	1.00000	3.76088e-29	1.00000
rad52	2.29398e-31	1.00000	2.29415e-31	1.00000
rad54	1.05867e-33	1.00000	1.05875e-33	1.00000
PAH10+CH3	8.20843e-34	1.00000	8.20903e-34	1.00000
rad43	1.89586e-34	1.00000	1.89600e-34	1.00000
rad62	1.50457e-36	1.00000	1.50468e-36	1.00000
rad51	3.02716e-39	1.00000	3.02738e-39	1.00000
rad70	1.23338e-41	1.00000	1.23347e-41	1.00000
PhcycC3H3_A+H	6.74174e-42	1.00000	6.74223e-42	1.00000
rad55	3.44040e-42	1.00000	3.44065e-42	1.00000
rad65	3.15933e-43	1.00000	3.15956e-43	1.00000
rad58	2.86529e-45	1.00000	2.86550e-45	1.00000
PAH1+H	1.07302e-45	1.00000	1.07310e-45	1.00000
rad34	2.03475e-47	1.00000	2.03490e-47	1.00000
rad42	2.37774e-49	1.00000	2.37791e-49	1.00000
rad41	1.45533e-49	1.00000	1.45544e-49	1.00000
rad47	1.05427e-52	1.00000	1.05435e-52	1.00000

0.100000000E-01 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69315e-29 (1.00)	4.69271e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999455	0.999455	0.999550	0.999550
rad6	0.000449896	0.999905	0.000449939	1.000000
Benzyl+C2H2	9.42307e-05	0.999999	0.000000	1.000000
rad23	3.33467e-07	0.999999	3.33499e-07	1.000000
rad7	3.84950e-08	0.999999	3.84987e-08	1.000000
rad2	1.69567e-08	1.000000	1.69583e-08	1.000000
rad11	1.15355e-08	1.000000	1.15365e-08	1.000000
rad45	3.63802e-09	1.000000	3.63837e-09	1.000000
rad1	1.13520e-09	1.000000	1.13531e-09	1.000000
rad10	9.11461e-10	1.000000	9.11547e-10	1.000000
rad30	5.55098e-10	1.000000	5.55151e-10	1.000000
rad3	5.16006e-10	1.000000	5.16055e-10	1.000000
rad4	2.64921e-10	1.000000	2.64945e-10	1.000000
rad36	2.26469e-10	1.000000	2.26491e-10	1.000000
rad13	1.87723e-10	1.000000	1.87740e-10	1.000000
rad22	1.49430e-10	1.000000	1.49445e-10	1.000000
rad28	1.27063e-10	1.000000	1.27075e-10	1.000000
PAH9+H	1.19020e-10	1.000000	1.19032e-10	1.000000
rad35	1.17259e-10	1.000000	1.17270e-10	1.000000
rad26	2.87934e-11	1.000000	2.87961e-11	1.000000
rad15	2.12567e-11	1.000000	2.12588e-11	1.000000
rad38	1.38888e-11	1.000000	1.38901e-11	1.000000
PhCCH+CH3	8.52428e-12	1.000000	8.52508e-12	1.000000
PhCHCCH2+H	7.08590e-12	1.000000	7.08656e-12	1.000000
rad20	4.04849e-12	1.000000	4.04887e-12	1.000000
PhCCCH3+H	3.03194e-12	1.000000	3.03223e-12	1.000000
rad21	2.56405e-12	1.000000	2.56429e-12	1.000000
rad33	3.59430e-13	1.000000	3.59464e-13	1.000000
rad25	8.46838e-14	1.000000	8.46918e-14	1.000000
rad18	3.90864e-14	1.000000	3.90901e-14	1.000000
rad8	1.49272e-14	1.000000	1.49286e-14	1.000000
Ph+MeAc	1.47367e-14	1.000000	1.47381e-14	1.000000
rad27	7.27559e-15	1.000000	7.27627e-15	1.000000
rad9	6.58789e-15	1.000000	6.58851e-15	1.000000
rad14	4.57713e-15	1.000000	4.57756e-15	1.000000
rad46	1.91289e-15	1.000000	1.91307e-15	1.000000

PAH7+H	1.32444e-15	1.000000	1.32457e-15	1.00000
Ph+Allene	3.74926e-16	1.000000	3.74961e-16	1.00000
rad12	2.06090e-16	1.000000	2.06109e-16	1.00000
rad39	1.44589e-16	1.000000	1.44603e-16	1.00000
rad24	5.18074e-17	1.000000	5.18123e-17	1.00000
rad60syn	4.99227e-18	1.000000	4.99274e-18	1.00000
rad60anti	8.02760e-19	1.000000	8.02835e-19	1.00000
rad31	6.39161e-19	1.000000	6.39222e-19	1.00000
PhCH2CCH+H	5.69277e-19	1.000000	5.69331e-19	1.00000
rad37	1.23885e-19	1.000000	1.23896e-19	1.00000
rad5	8.20997e-22	1.000000	8.21074e-22	1.00000
PAH3+H	1.31358e-22	1.000000	1.31371e-22	1.00000
rad59	5.18614e-23	1.000000	5.18663e-23	1.00000
rad50	3.07429e-24	1.000000	3.07458e-24	1.00000
rad19syn	4.16532e-27	1.000000	4.16571e-27	1.00000
rad52	1.37472e-29	1.000000	1.37485e-29	1.00000
rad54	6.17908e-31	1.000000	6.17966e-31	1.00000
PAH10+CH3	4.23215e-31	1.000000	4.23255e-31	1.00000
rad43	9.75757e-32	1.000000	9.75849e-32	1.00000
rad62	7.68404e-34	1.000000	7.68477e-34	1.00000
rad51	1.20097e-36	1.000000	1.20108e-36	1.00000
rad70	6.86834e-39	1.000000	6.86899e-39	1.00000
PhcycC3H3_A+H	3.59682e-39	1.000000	3.59715e-39	1.00000
rad55	1.86474e-39	1.000000	1.86491e-39	1.00000
rad65	1.00136e-40	1.000000	1.00145e-40	1.00000
rad58	1.46516e-42	1.000000	1.46530e-42	1.00000
PAH1+H	3.18365e-43	1.000000	3.18395e-43	1.00000
rad34	5.70502e-45	1.000000	5.70555e-45	1.00000
rad42	8.55225e-47	1.000000	8.55306e-47	1.00000
rad41	5.51394e-47	1.000000	5.51446e-47	1.00000
rad47	3.87984e-50	1.000000	3.88020e-50	1.00000

0.100000000E-01 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.16530e-28 (1.00)	3.16492e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999390	0.999390	0.999510	0.999510
rad6	0.000489336	0.999879	0.000489395	0.999999
Benzyl+C2H2	0.000120664	1.00000	0.00000	0.999999
rad23	2.49553e-07	1.00000	2.49583e-07	1.00000
rad7	4.17525e-08	1.00000	4.17576e-08	1.00000
rad2	2.48611e-08	1.00000	2.48641e-08	1.00000
rad11	1.20323e-08	1.00000	1.20338e-08	1.00000
rad45	2.71220e-09	1.00000	2.71252e-09	1.00000
rad1	1.67633e-09	1.00000	1.67653e-09	1.00000
rad10	1.33591e-09	1.00000	1.33607e-09	1.00000
rad30	9.09102e-10	1.00000	9.09212e-10	1.00000
rad3	5.99991e-10	1.00000	6.00064e-10	1.00000
rad4	3.08656e-10	1.00000	3.08694e-10	1.00000
rad28	2.73058e-10	1.00000	2.73091e-10	1.00000
rad13	2.04885e-10	1.00000	2.04910e-10	1.00000
PAH9+H	1.69587e-10	1.00000	1.69608e-10	1.00000
rad36	1.69138e-10	1.00000	1.69158e-10	1.00000
rad35	1.57540e-10	1.00000	1.57559e-10	1.00000
rad22	1.11566e-10	1.00000	1.11580e-10	1.00000
rad26	6.74815e-11	1.00000	6.74896e-11	1.00000
rad15	4.19617e-11	1.00000	4.19668e-11	1.00000
PhCCH+CH3	2.81047e-11	1.00000	2.81081e-11	1.00000
PhCHCCH2+H	2.21935e-11	1.00000	2.21962e-11	1.00000
rad38	2.18076e-11	1.00000	2.18102e-11	1.00000
PhCCCH3+H	1.01346e-11	1.00000	1.01358e-11	1.00000
rad20	3.64230e-12	1.00000	3.64274e-12	1.00000
rad21	2.31082e-12	1.00000	2.31109e-12	1.00000
rad33	3.93018e-13	1.00000	3.93066e-13	1.00000
rad25	1.22528e-13	1.00000	1.22543e-13	1.00000
Ph+MeAc	7.37724e-14	1.00000	7.37813e-14	1.00000
rad8	5.69154e-14	1.00000	5.69222e-14	1.00000
rad18	3.39408e-14	1.00000	3.39449e-14	1.00000
rad9	2.67022e-14	1.00000	2.67054e-14	1.00000
rad27	1.14471e-14	1.00000	1.14485e-14	1.00000
rad14	8.15016e-15	1.00000	8.15114e-15	1.00000
PAH7+H	6.31952e-15	1.00000	6.32028e-15	1.00000
rad46	5.11645e-15	1.00000	5.11707e-15	1.00000
Ph+Allene	2.17877e-15	1.00000	2.17903e-15	1.00000
rad12	9.49985e-16	1.00000	9.50099e-16	1.00000
rad39	7.53594e-16	1.00000	7.53685e-16	1.00000

rad24	3.92171e-17	1.00000	3.92218e-17	1.000000
rad60syn	2.39863e-17	1.00000	2.39892e-17	1.000000
PhCH2CCH+H	4.75414e-18	1.00000	4.75471e-18	1.000000
rad60anti	4.25469e-18	1.00000	4.25521e-18	1.000000
rad37	9.75669e-19	1.00000	9.75787e-19	1.000000
rad31	9.07849e-19	1.00000	9.07959e-19	1.000000
rad5	7.51783e-21	1.00000	7.51874e-21	1.000000
PAH3+H	1.31871e-21	1.00000	1.31887e-21	1.000000
rad59	5.05394e-22	1.00000	5.05455e-22	1.000000
rad50	2.95591e-23	1.00000	2.95627e-23	1.000000
rad19syn	1.10933e-25	1.00000	1.10946e-25	1.000000
rad54	5.09948e-28	1.00000	5.10009e-28	1.000000
PAH10+CH3	3.42837e-28	1.00000	3.42878e-28	1.000000
rad52	3.12520e-28	1.00000	3.12557e-28	1.000000
rad43	8.36002e-29	1.00000	8.36103e-29	1.000000
rad62	3.99977e-30	1.00000	4.00025e-30	1.000000
rad51	2.55989e-31	1.00000	2.56020e-31	1.000000
rad70	9.52311e-36	1.00000	9.52426e-36	1.000000
PhcycC3H3_A+H	4.89297e-36	1.00000	4.89356e-36	1.000000
rad55	2.55872e-36	1.00000	2.55903e-36	1.000000
rad65	5.67350e-38	1.00000	5.67418e-38	1.000000
rad58	1.93629e-39	1.00000	1.93653e-39	1.000000
PAH1+H	1.75103e-40	1.00000	1.75124e-40	1.000000
rad34	2.23169e-42	1.00000	2.23196e-42	1.000000
rad42	2.85715e-44	1.00000	2.85750e-44	1.000000
rad41	1.94973e-44	1.00000	1.94997e-44	1.000000
rad47	1.47642e-47	1.00000	1.47660e-47	1.000000

0.100000000E-01 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76088e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999313	0.999313	0.999466	0.999466
rad6	0.000533194	0.999846	0.000533276	0.999999
Benzyl+C2H2	0.000153862	1.00000	0.00000	0.999999
rad23	1.88670e-07	1.00000	1.88699e-07	0.999999
rad7	4.53805e-08	1.00000	4.53875e-08	1.000000
rad2	3.57028e-08	1.00000	3.57083e-08	1.000000
rad11	1.26872e-08	1.00000	1.26891e-08	1.000000
rad1	2.42614e-09	1.00000	2.42651e-09	1.000000
rad45	2.04387e-09	1.00000	2.04419e-09	1.000000
rad10	1.91784e-09	1.00000	1.91814e-09	1.000000
rad30	1.43724e-09	1.00000	1.43746e-09	1.000000
rad3	7.02888e-10	1.00000	7.02997e-10	1.000000
rad28	5.59351e-10	1.00000	5.59437e-10	1.000000
rad4	3.62381e-10	1.00000	3.62437e-10	1.000000
PAH9+H	2.39756e-10	1.00000	2.39793e-10	1.000000
rad13	2.24055e-10	1.00000	2.24089e-10	1.000000
rad35	2.11113e-10	1.00000	2.11146e-10	1.000000
rad26	1.46895e-10	1.00000	1.46917e-10	1.000000
rad36	1.27735e-10	1.00000	1.27755e-10	1.000000
PhCCH+CH3	8.48587e-11	1.00000	8.48717e-11	1.000000
rad22	8.41718e-11	1.00000	8.41848e-11	1.000000
rad15	7.82326e-11	1.00000	7.82446e-11	1.000000
PhCHCCH2+H	6.39953e-11	1.00000	6.40051e-11	1.000000
rad38	3.35760e-11	1.00000	3.35812e-11	1.000000
PhCCCH3+H	3.08661e-11	1.00000	3.08709e-11	1.000000
rad20	3.28462e-12	1.00000	3.28512e-12	1.000000
rad21	2.08781e-12	1.00000	2.08813e-12	1.000000
rad33	4.30624e-13	1.00000	4.30690e-13	1.000000
Ph+MeAc	3.19444e-13	1.00000	3.19493e-13	1.000000
rad8	1.94273e-13	1.00000	1.94303e-13	1.000000
rad25	1.67666e-13	1.00000	1.67692e-13	1.000000
rad9	9.60771e-14	1.00000	9.60919e-14	1.000000
rad18	2.95748e-14	1.00000	2.95794e-14	1.000000
PAH7+H	2.62721e-14	1.00000	2.62761e-14	1.000000
rad27	1.73627e-14	1.00000	1.73654e-14	1.000000
rad14	1.36358e-14	1.00000	1.36379e-14	1.000000
rad46	1.25831e-14	1.00000	1.25850e-14	1.000000
Ph+Allene	1.07761e-14	1.00000	1.07778e-14	1.000000
rad12	3.81248e-15	1.00000	3.81307e-15	1.000000
rad39	3.38258e-15	1.00000	3.38310e-15	1.000000
rad60syn	9.86955e-17	1.00000	9.87107e-17	1.000000
PhCH2CCH+H	3.24210e-17	1.00000	3.24260e-17	1.000000
rad24	3.00232e-17	1.00000	3.00278e-17	1.000000
rad60anti	1.90996e-17	1.00000	1.91025e-17	1.000000

rad37	6.22594e-18	1.00000	6.22690e-18	1.000000
rad31	1.29248e-18	1.00000	1.29268e-18	1.000000
rad5	5.54088e-20	1.00000	5.54174e-20	1.000000
PAH3+H	1.05267e-20	1.00000	1.05283e-20	1.000000
rad59	3.92156e-21	1.00000	3.92217e-21	1.000000
rad50	2.28068e-22	1.00000	2.28103e-22	1.000000
rad19syn	1.67127e-24	1.00000	1.67153e-24	1.000000
rad54	1.29427e-26	1.00000	1.29447e-26	1.000000
PAH10+CH3	8.85823e-27	1.00000	8.85959e-27	1.000000
rad52	4.43378e-27	1.00000	4.43447e-27	1.000000
rad43	2.17384e-27	1.00000	2.17418e-27	1.000000
rad62	2.56399e-28	1.00000	2.56438e-28	1.000000
rad51	1.45502e-29	1.00000	1.45524e-29	1.000000
rad70	1.73818e-32	1.00000	1.73845e-32	1.000000
rad65	1.67631e-32	1.00000	1.67657e-32	1.000000
PhcycC3H3_A+H	8.97376e-33	1.00000	8.97514e-33	1.000000
rad55	4.69196e-33	1.00000	4.69268e-33	1.000000
rad58	3.54792e-36	1.00000	3.54846e-36	1.000000
PAH1+H	2.49233e-37	1.00000	2.49271e-37	1.000000
rad34	2.44198e-39	1.00000	2.44235e-39	1.000000
rad42	6.90563e-42	1.00000	6.90669e-42	1.000000
rad41	4.70078e-42	1.00000	4.70150e-42	1.000000
rad47	4.93212e-45	1.00000	4.93287e-45	1.000000

0.1000000000E-01 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.30956e-27 (1.00)	8.30794e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999223	0.999223	0.999418	0.999418
rad6	0.000581788	0.999805	0.000581902	1.000000
Benzyl+C2H2	0.000195333	1.00000	0.00000	1.000000
rad23	1.44043e-07	1.00000	1.44071e-07	1.00000
rad2	5.01690e-08	1.00000	5.01788e-08	1.00000
rad7	4.94051e-08	1.00000	4.94147e-08	1.00000
rad11	1.34931e-08	1.00000	1.34957e-08	1.00000
rad1	3.43804e-09	1.00000	3.43871e-09	1.00000
rad10	2.69413e-09	1.00000	2.69466e-09	1.00000
rad30	2.20557e-09	1.00000	2.20600e-09	1.00000
rad45	1.55623e-09	1.00000	1.55653e-09	1.00000
rad28	1.09387e-09	1.00000	1.09408e-09	1.00000
rad3	8.28581e-10	1.00000	8.28743e-10	1.00000
rad4	4.28202e-10	1.00000	4.28286e-10	1.00000
PAH9+H	3.36559e-10	1.00000	3.36624e-10	1.00000
rad26	2.98774e-10	1.00000	2.98833e-10	1.00000
rad35	2.82083e-10	1.00000	2.82138e-10	1.00000
rad13	2.45396e-10	1.00000	2.45444e-10	1.00000
PhCCH+CH3	2.36797e-10	1.00000	2.36844e-10	1.00000
PhCHCCH2+H	1.71330e-10	1.00000	1.71363e-10	1.00000
rad15	1.38965e-10	1.00000	1.38993e-10	1.00000
rad36	9.75081e-11	1.00000	9.75271e-11	1.00000
PhCCCH3+H	8.65311e-11	1.00000	8.65481e-11	1.00000
rad22	6.41350e-11	1.00000	6.41476e-11	1.00000
rad38	5.08248e-11	1.00000	5.08347e-11	1.00000
rad20	2.96855e-12	1.00000	2.96913e-12	1.00000
rad21	1.89073e-12	1.00000	1.89110e-12	1.00000
Ph+MeAc	1.21867e-12	1.00000	1.21891e-12	1.00000
rad8	6.01488e-13	1.00000	6.01605e-13	1.00000
rad33	4.72599e-13	1.00000	4.72692e-13	1.00000
rad9	3.11736e-13	1.00000	3.11797e-13	1.00000
rad25	2.18809e-13	1.00000	2.18852e-13	1.00000
PAH7+H	9.67663e-14	1.00000	9.67852e-14	1.00000
Ph+Allene	4.63584e-14	1.00000	4.63674e-14	1.00000
rad46	2.88212e-14	1.00000	2.88268e-14	1.00000
rad18	2.58472e-14	1.00000	2.58522e-14	1.00000
rad27	2.54668e-14	1.00000	2.54717e-14	1.00000
rad14	2.16172e-14	1.00000	2.16214e-14	1.00000
rad12	1.35553e-14	1.00000	1.35580e-14	1.00000
rad39	1.33232e-14	1.00000	1.33258e-14	1.00000
rad60syn	3.55779e-16	1.00000	3.55849e-16	1.00000
PhCH2CCH+H	1.85694e-16	1.00000	1.85730e-16	1.00000
rad60anti	7.44049e-17	1.00000	7.44195e-17	1.00000
rad37	3.31513e-17	1.00000	3.31578e-17	1.00000
rad24	2.32394e-17	1.00000	2.32440e-17	1.00000
rad31	1.83620e-18	1.00000	1.83656e-18	1.00000
rad5	3.38751e-19	1.00000	3.38817e-19	1.00000
PAH3+H	6.91251e-20	1.00000	6.91386e-20	1.00000

rad59	2.50571e-20	1.00000	2.50620e-20	1.00000
rad50	1.45882e-21	1.00000	1.45910e-21	1.00000
rad19syn	1.85262e-23	1.00000	1.85298e-23	1.00000
rad54	1.84564e-25	1.00000	1.84600e-25	1.00000
PAH10+CH3	1.26478e-25	1.00000	1.26503e-25	1.00000
rad52	4.72835e-26	1.00000	4.72927e-26	1.00000
rad43	3.08428e-26	1.00000	3.08489e-26	1.00000
rad62	4.68423e-27	1.00000	4.68515e-27	1.00000
rad51	2.75875e-28	1.00000	2.75929e-28	1.00000
rad70	4.06041e-29	1.00000	4.06121e-29	1.00000
PhcycC3H3_A+H	3.59608e-29	1.00000	3.59678e-29	1.00000
rad55	1.41789e-29	1.00000	1.41817e-29	1.00000
rad58	1.88361e-30	1.00000	1.88398e-30	1.00000
rad65	8.85873e-31	1.00000	8.86046e-31	1.00000
PAH1+H	5.47162e-34	1.00000	5.47269e-34	1.00000
rad34	5.24501e-36	1.00000	5.24603e-36	1.00000
rad42	2.09559e-39	1.00000	2.09600e-39	1.00000
rad41	9.15963e-40	1.00000	9.16142e-40	1.00000
rad47	3.95723e-42	1.00000	3.95800e-42	1.00000

0.1000000000E-01 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.40057e-26 (1.00)	3.39973e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999117	0.999117	0.999364	0.999364
rad6	0.000635403	0.999752	0.000635559	1.000000
Benzyl+C2H2	0.000246849	0.999999	0.000000	1.000000
rad23	1.11044e-07	0.999999	1.11071e-07	1.000000
rad2	6.89501e-08	0.999999	6.89672e-08	1.000000
rad7	5.38495e-08	0.999999	5.38628e-08	1.000000
rad11	1.44457e-08	1.000000	1.44493e-08	1.000000
rad1	4.76844e-09	1.000000	4.76962e-09	1.000000
rad10	3.70188e-09	1.000000	3.70280e-09	1.000000
rad30	3.29967e-09	1.000000	3.30048e-09	1.000000
rad28	2.04485e-09	1.000000	2.04536e-09	1.000000
rad45	1.19712e-09	1.000000	1.19741e-09	1.000000
rad3	9.80947e-10	1.000000	9.81190e-10	1.000000
PhCCH+CH3	6.15296e-10	1.000000	6.15448e-10	1.000000
rad26	5.70946e-10	1.000000	5.71087e-10	1.000000
rad4	5.08261e-10	1.000000	5.08387e-10	1.000000
PAH9+H	4.69297e-10	1.000000	4.69413e-10	1.000000
PhCHCCH2+H	4.28856e-10	1.000000	4.28962e-10	1.000000
rad35	3.75685e-10	1.000000	3.75778e-10	1.000000
rad13	2.69063e-10	1.000000	2.69129e-10	1.000000
rad15	2.36844e-10	1.000000	2.36903e-10	1.000000
PhCCCH3+H	2.25176e-10	1.000000	2.25232e-10	1.000000
rad38	7.57887e-11	1.000000	7.58074e-11	1.000000
rad36	7.52324e-11	1.000000	7.52510e-11	1.000000
rad22	4.93409e-11	1.000000	4.93531e-11	1.000000
Ph+MeAc	4.15895e-12	1.000000	4.15998e-12	1.000000
rad20	2.68849e-12	1.000000	2.68915e-12	1.000000
rad21	1.71609e-12	1.000000	1.71651e-12	1.000000
rad8	1.70752e-12	1.000000	1.70794e-12	1.000000
rad9	9.23673e-13	1.000000	9.23901e-13	1.000000
rad33	5.19285e-13	1.000000	5.19413e-13	1.000000
PAH7+H	3.20244e-13	1.000000	3.20323e-13	1.000000
rad25	2.74224e-13	1.000000	2.74292e-13	1.000000
Ph+Allene	1.76584e-13	1.000000	1.76627e-13	1.000000
rad46	6.21195e-14	1.000000	6.21348e-14	1.000000
rad39	4.67773e-14	1.000000	4.67889e-14	1.000000
rad12	4.33240e-14	1.000000	4.33347e-14	1.000000
rad27	3.62170e-14	1.000000	3.62259e-14	1.000000
rad14	3.26980e-14	1.000000	3.27061e-14	1.000000
rad18	2.26479e-14	1.000000	2.26535e-14	1.000000
rad60syn	1.14466e-15	1.000000	1.14494e-15	1.000000
PhCH2CCH+H	9.14128e-16	1.000000	9.14354e-16	1.000000
rad60anti	2.56577e-16	1.000000	2.56640e-16	1.000000
rad37	1.50911e-16	1.000000	1.50949e-16	1.000000
rad24	1.81898e-17	1.000000	1.81943e-17	1.000000
rad31	2.59470e-18	1.000000	2.59534e-18	1.000000
rad5	1.76078e-18	1.000000	1.76121e-18	1.000000
PAH3+H	3.83716e-19	1.000000	3.83810e-19	1.000000
rad59	1.35465e-19	1.000000	1.35498e-19	1.000000
rad50	7.94111e-21	1.000000	7.94307e-21	1.000000
rad19syn	1.64252e-22	1.000000	1.64292e-22	1.000000
rad54	1.98437e-24	1.000000	1.98486e-24	1.000000

PAH10+CH3	1.35848e-24	1.000000	1.35882e-24	1.000000
rad52	4.06176e-25	1.000000	4.06276e-25	1.000000
rad43	3.29608e-25	1.000000	3.29689e-25	1.000000
rad62	5.76072e-26	1.000000	5.76214e-26	1.000000
rad51	3.50097e-27	1.000000	3.50184e-27	1.000000
PhcycC3H3_A+H	9.66691e-28	1.000000	9.66930e-28	1.000000
rad70	8.80033e-28	1.000000	8.80250e-28	1.000000
rad55	3.30840e-28	1.000000	3.30922e-28	1.000000
rad58	5.59505e-29	1.000000	5.59643e-29	1.000000
rad65	1.55187e-29	1.000000	1.55225e-29	1.000000
PAH1+H	3.07936e-30	1.000000	3.08012e-30	1.000000
rad34	1.95212e-33	1.000000	1.95260e-33	1.000000
rad42	4.85935e-37	1.000000	4.86055e-37	1.000000
rad47	1.49433e-37	1.000000	1.49470e-37	1.000000
rad41	1.13378e-37	1.000000	1.13406e-37	1.000000

0.100000000E-01 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22933e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998995	0.998995	0.999305	0.999305
rad6	0.000694259	0.999689	0.000694475	0.999999
Benzyl+C2H2	0.000310486	1.000000	0.000000	0.999999
rad2	9.26887e-08	1.000000	9.27175e-08	1.000000
rad23	8.64594e-08	1.000000	8.64863e-08	1.000000
rad7	5.87323e-08	1.000000	5.87506e-08	1.000000
rad11	1.55421e-08	1.000000	1.55469e-08	1.000000
rad1	6.47383e-09	1.000000	6.47584e-09	1.000000
rad10	4.97576e-09	1.000000	4.97730e-09	1.000000
rad30	4.82902e-09	1.000000	4.83052e-09	1.000000
rad28	3.65899e-09	1.000000	3.66013e-09	1.000000
PhCCH+CH3	1.49814e-09	1.000000	1.49860e-09	1.000000
rad3	1.16358e-09	1.000000	1.16394e-09	1.000000
rad26	1.03034e-09	1.000000	1.03066e-09	1.000000
PhCHCCH2+H	1.00953e-09	1.000000	1.00984e-09	1.000000
rad45	9.30578e-10	1.000000	9.30867e-10	1.000000
PAH9+H	6.50172e-10	1.000000	6.50374e-10	1.000000
rad4	6.04595e-10	1.000000	6.04783e-10	1.000000
PhCCCH3+H	5.47742e-10	1.000000	5.47912e-10	1.000000
rad35	4.98550e-10	1.000000	4.98705e-10	1.000000
rad15	3.89514e-10	1.000000	3.89635e-10	1.000000
rad13	2.95190e-10	1.000000	2.95282e-10	1.000000
rad38	1.11499e-10	1.000000	1.11533e-10	1.000000
rad36	5.86847e-11	1.000000	5.87029e-11	1.000000
rad22	3.83288e-11	1.000000	3.83407e-11	1.000000
Ph+MeAc	1.28597e-11	1.000000	1.28637e-11	1.000000
rad8	4.48488e-12	1.000000	4.48627e-12	1.000000
rad9	2.52503e-12	1.000000	2.52582e-12	1.000000
rad20	2.43980e-12	1.000000	2.44056e-12	1.000000
rad21	1.56100e-12	1.000000	1.56148e-12	1.000000
PAH7+H	9.63722e-13	1.000000	9.64021e-13	1.000000
Ph+Allene	6.04445e-13	1.000000	6.04633e-13	1.000000
rad33	5.70988e-13	1.000000	5.71166e-13	1.000000
rad25	3.31964e-13	1.000000	3.32068e-13	1.000000
rad39	1.48352e-13	1.000000	1.48399e-13	1.000000
rad46	1.27049e-13	1.000000	1.27088e-13	1.000000
rad12	1.25995e-13	1.000000	1.26034e-13	1.000000
rad27	5.00545e-14	1.000000	5.00701e-14	1.000000
rad14	4.74606e-14	1.000000	4.74753e-14	1.000000
rad18	1.98904e-14	1.000000	1.98966e-14	1.000000
PhCH2CCH+H	3.94240e-15	1.000000	3.94362e-15	1.000000
rad60syn	3.33751e-15	1.000000	3.33855e-15	1.000000
rad60anti	7.96117e-16	1.000000	7.96364e-16	1.000000
rad37	5.99272e-16	1.000000	5.99458e-16	1.000000
rad24	1.44037e-17	1.000000	1.44082e-17	1.000000
rad5	7.94199e-18	1.000000	7.94445e-18	1.000000
rad31	3.63924e-18	1.000000	3.64037e-18	1.000000
PAH3+H	1.84110e-18	1.000000	1.84167e-18	1.000000
rad59	6.33568e-19	1.000000	6.33765e-19	1.000000
rad50	3.75826e-20	1.000000	3.75942e-20	1.000000
rad19syn	1.20338e-21	1.000000	1.20375e-21	1.000000
rad54	1.72230e-23	1.000000	1.72284e-23	1.000000
PAH10+CH3	1.17499e-23	1.000000	1.17536e-23	1.000000
rad52	2.90121e-24	1.000000	2.90211e-24	1.000000
rad43	2.83408e-24	1.000000	2.83496e-24	1.000000
rad62	5.56131e-25	1.000000	5.56304e-25	1.000000

rad51	3.51694e-26	1.00000	3.51803e-26	1.000000
PhcycC3H3_A+H	1.66517e-26	1.00000	1.66569e-26	1.000000
rad70	1.28353e-26	1.00000	1.28393e-26	1.000000
rad55	5.09020e-27	1.00000	5.09178e-27	1.000000
rad58	1.02396e-27	1.00000	1.02427e-27	1.000000
PAH1+H	2.20703e-28	1.00000	2.20772e-28	1.000000
rad65	2.00131e-28	1.00000	2.00193e-28	1.000000
rad34	1.05689e-29	1.00000	1.05722e-29	1.000000
rad42	4.40743e-32	1.00000	4.40880e-32	1.000000
rad41	7.72170e-33	1.00000	7.72410e-33	1.000000
rad47	2.01962e-36	1.00000	2.02024e-36	1.000000

0.1000000000E-01 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.98936e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998853	0.998853	0.999241	0.999241
rad6	0.000758493	0.999611	0.000758788	1.000000
Benzyl+C2H2	0.000388650	1.00000	0.00000	1.000000
rad2	1.21925e-07	1.00000	1.21972e-07	1.000000
rad23	6.80319e-08	1.00000	6.80583e-08	1.000000
rad7	6.40648e-08	1.00000	6.40897e-08	1.000000
rad11	1.67789e-08	1.00000	1.67854e-08	1.000000
rad1	8.60730e-09	1.00000	8.61065e-09	1.000000
rad30	6.93207e-09	1.00000	6.93476e-09	1.000000
rad10	6.54509e-09	1.00000	6.54763e-09	1.000000
rad28	6.27635e-09	1.00000	6.27879e-09	1.000000
PhCCH+CH3	3.43651e-09	1.00000	3.43785e-09	1.000000
PhCHCCH2+H	2.24602e-09	1.00000	2.24690e-09	1.000000
rad26	1.76412e-09	1.00000	1.76481e-09	1.000000
rad3	1.37950e-09	1.00000	1.38004e-09	1.000000
PhCCCH3+H	1.25290e-09	1.00000	1.25338e-09	1.000000
PAH9+H	8.95063e-10	1.00000	8.95411e-10	1.000000
rad45	7.31453e-10	1.00000	7.31737e-10	1.000000
rad4	7.18989e-10	1.00000	7.19268e-10	1.000000
rad35	6.59020e-10	1.00000	6.59276e-10	1.000000
rad15	6.21001e-10	1.00000	6.21242e-10	1.000000
rad13	3.23879e-10	1.00000	3.24005e-10	1.000000
rad38	1.62022e-10	1.00000	1.62085e-10	1.000000
rad36	4.63106e-11	1.00000	4.63286e-11	1.000000
Ph+MeAc	3.64173e-11	1.00000	3.64314e-11	1.000000
rad22	3.00754e-11	1.00000	3.00871e-11	1.000000
rad8	1.09825e-11	1.00000	1.09868e-11	1.000000
rad9	6.42263e-12	1.00000	6.42512e-12	1.000000
PAH7+H	2.66426e-12	1.00000	2.66530e-12	1.000000
rad20	2.21862e-12	1.00000	2.21948e-12	1.000000
Ph+Allene	1.88249e-12	1.00000	1.88322e-12	1.000000
rad21	1.42307e-12	1.00000	1.42362e-12	1.000000
rad33	6.27960e-13	1.00000	6.28204e-13	1.000000
rad39	4.29825e-13	1.00000	4.29992e-13	1.000000
rad25	3.90089e-13	1.00000	3.90241e-13	1.000000
rad12	3.36863e-13	1.00000	3.36994e-13	1.000000
rad46	2.48261e-13	1.00000	2.48357e-13	1.000000
rad27	6.73710e-14	1.00000	6.73972e-14	1.000000
rad14	6.64205e-14	1.00000	6.64463e-14	1.000000
rad18	1.75050e-14	1.00000	1.75118e-14	1.000000
PhCH2CCH+H	1.51363e-14	1.00000	1.51422e-14	1.000000
rad60syn	8.93179e-15	1.00000	8.93526e-15	1.000000
rad60anti	2.25315e-15	1.00000	2.25403e-15	1.000000
rad37	2.11124e-15	1.00000	2.11206e-15	1.000000
rad5	3.16227e-17	1.00000	3.16350e-17	1.000000
rad24	1.15488e-17	1.00000	1.15533e-17	1.000000
PAH3+H	7.77831e-18	1.00000	7.78134e-18	1.000000
rad31	5.06075e-18	1.00000	5.06272e-18	1.000000
rad59	2.61134e-18	1.00000	2.61235e-18	1.000000
rad50	1.57410e-19	1.00000	1.57471e-19	1.000000
rad19syn	7.46254e-21	1.00000	7.46544e-21	1.000000
rad54	1.23887e-22	1.00000	1.23935e-22	1.000000
PAH10+CH3	8.41994e-23	1.00000	8.42321e-23	1.000000
rad43	2.01947e-23	1.00000	2.02026e-23	1.000000
rad52	1.76323e-23	1.00000	1.76391e-23	1.000000
rad62	4.35158e-24	1.00000	4.35327e-24	1.000000
rad51	2.84407e-25	1.00000	2.84518e-25	1.000000
PhcycC3H3_A+H	1.80778e-25	1.00000	1.80848e-25	1.000000
rad70	1.28544e-25	1.00000	1.28594e-25	1.000000
rad55	5.23369e-26	1.00000	5.23572e-26	1.000000

rad58	1.13957e-26	1.00000	1.14001e-26	1.00000
PAH1+H	3.45174e-27	1.00000	3.45308e-27	1.00000
rad65	1.89604e-27	1.00000	1.89677e-27	1.00000
rad34	2.00418e-28	1.00000	2.00496e-28	1.00000
rad42	2.60636e-30	1.00000	2.60737e-30	1.00000
rad41	7.50332e-31	1.00000	7.50623e-31	1.00000
rad47	1.87515e-35	1.00000	1.87588e-35	1.00000

0.100000000E-01 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17706e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998687	0.998687	0.999171	0.999171
rad6	0.000828117	0.999515	0.000828518	1.000000
Benzyl+C2H2	0.000484113	0.999999	0.000000	1.000000
rad2	1.57044e-07	0.999999	1.57120e-07	1.000000
rad7	6.98483e-08	0.999999	6.98821e-08	1.000000
rad23	5.41536e-08	1.000000	5.41799e-08	1.000000
rad11	1.81521e-08	1.000000	1.81609e-08	1.000000
rad1	1.12151e-08	1.000000	1.12205e-08	1.000000
rad28	1.03375e-08	1.000000	1.03425e-08	1.000000
rad30	9.78194e-09	1.000000	9.78668e-09	1.000000
rad10	8.43110e-09	1.000000	8.43518e-09	1.000000
PhCCH+CH3	7.46143e-09	1.000000	7.46504e-09	1.000000
PhCHCCH2+H	4.74328e-09	1.000000	4.74558e-09	1.000000
rad26	2.87808e-09	1.000000	2.87948e-09	1.000000
PhCCCH3+H	2.70876e-09	1.000000	2.71007e-09	1.000000
rad3	1.63086e-09	1.000000	1.63165e-09	1.000000
PAH9+H	1.22447e-09	1.000000	1.22507e-09	1.000000
rad15	9.63416e-10	1.000000	9.63883e-10	1.000000
rad35	8.67520e-10	1.000000	8.67941e-10	1.000000
rad4	8.52823e-10	1.000000	8.53236e-10	1.000000
rad45	5.81942e-10	1.000000	5.82224e-10	1.000000
rad13	3.55182e-10	1.000000	3.55354e-10	1.000000
rad38	2.32767e-10	1.000000	2.32879e-10	1.000000
Ph+MeAc	9.53253e-11	1.000000	9.53715e-11	1.000000
rad36	3.70108e-11	1.000000	3.70287e-11	1.000000
rad8	2.52397e-11	1.000000	2.52519e-11	1.000000
rad22	2.38551e-11	1.000000	2.38667e-11	1.000000
rad9	1.53091e-11	1.000000	1.53166e-11	1.000000
PAH7+H	6.82638e-12	1.000000	6.82969e-12	1.000000
Ph+Allene	5.39057e-12	1.000000	5.39318e-12	1.000000
rad20	2.02169e-12	1.000000	2.02267e-12	1.000000
rad21	1.30027e-12	1.000000	1.30090e-12	1.000000
rad39	1.14878e-12	1.000000	1.14933e-12	1.000000
rad12	8.35315e-13	1.000000	8.35719e-13	1.000000
rad33	6.90368e-13	1.000000	6.90703e-13	1.000000
rad46	4.66101e-13	1.000000	4.66327e-13	1.000000
rad25	4.46847e-13	1.000000	4.47063e-13	1.000000
rad14	8.99836e-14	1.000000	9.00272e-14	1.000000
rad27	8.84753e-14	1.000000	8.85182e-14	1.000000
PhCH2CCH+H	5.24400e-14	1.000000	5.24654e-14	1.000000
rad60syn	2.21737e-14	1.000000	2.21845e-14	1.000000
rad18	1.54354e-14	1.000000	1.54429e-14	1.000000
rad37	6.69343e-15	1.000000	6.69667e-15	1.000000
rad60anti	5.88317e-15	1.000000	5.88601e-15	1.000000
rad5	1.12771e-16	1.000000	1.12826e-16	1.000000
PAH3+H	2.93886e-17	1.000000	2.94028e-17	1.000000
rad59	9.63313e-18	1.000000	9.63779e-18	1.000000
rad24	9.38810e-18	1.000000	9.39265e-18	1.000000
rad31	6.97538e-18	1.000000	6.97876e-18	1.000000
rad50	5.92224e-19	1.000000	5.92511e-19	1.000000
rad19syn	4.00037e-20	1.000000	4.00231e-20	1.000000
rad54	7.59770e-22	1.000000	7.60138e-22	1.000000
PAH10+CH3	5.14099e-22	1.000000	5.14348e-22	1.000000
rad43	1.22561e-22	1.000000	1.22621e-22	1.000000
rad52	9.30803e-23	1.000000	9.31254e-23	1.000000
rad62	2.87031e-23	1.000000	2.87170e-23	1.000000
rad51	1.93186e-24	1.000000	1.93280e-24	1.000000
PhcycC3H3_A+H	1.49420e-24	1.000000	1.49492e-24	1.000000
rad70	1.01865e-24	1.000000	1.01914e-24	1.000000
rad55	4.20879e-25	1.000000	4.21083e-25	1.000000
rad58	9.52807e-26	1.000000	9.53269e-26	1.000000
PAH1+H	3.22692e-26	1.000000	3.22848e-26	1.000000
rad65	1.44795e-26	1.000000	1.44865e-26	1.000000
rad34	1.93903e-27	1.000000	1.93997e-27	1.000000

rad42	2.74552e-29	1.000000	2.74685e-29	1.000000
rad41	7.96620e-30	1.000000	7.97006e-30	1.000000
rad47	1.43579e-34	1.000000	1.43648e-34	1.000000

0.100000000E-01 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19260e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998497	0.998497	0.999096	0.999096
rad6	0.000902987	0.999400	0.000903529	1.000000
Benzyl+C2H2	0.000600044	1.000000	0.000000	1.000000
rad2	1.98228e-07	1.000000	1.98347e-07	1.000000
rad7	7.60714e-08	1.000000	7.61170e-08	1.000000
rad23	4.36695e-08	1.000000	4.36957e-08	1.000000
rad11	1.96550e-08	1.000000	1.96668e-08	1.000000
rad28	1.63782e-08	1.000000	1.63881e-08	1.000000
PhCCH+CH3	1.53984e-08	1.000000	1.54077e-08	1.000000
rad1	1.43331e-08	1.000000	1.43417e-08	1.000000
rad30	1.35928e-08	1.000000	1.36009e-08	1.000000
rad10	1.06444e-08	1.000000	1.06508e-08	1.000000
PhCHCCH2+H	9.54500e-09	1.000000	9.55073e-09	1.000000
PhCCCH3+H	5.56026e-09	1.000000	5.56360e-09	1.000000
rad26	4.49155e-09	1.000000	4.49425e-09	1.000000
rad3	1.91865e-09	1.000000	1.91980e-09	1.000000
PAH9+H	1.66467e-09	1.000000	1.66567e-09	1.000000
rad15	1.45896e-09	1.000000	1.45983e-09	1.000000
rad35	1.13700e-09	1.000000	1.13768e-09	1.000000
rad4	1.00693e-09	1.000000	1.00754e-09	1.000000
rad45	4.69317e-10	1.000000	4.69599e-10	1.000000
rad13	3.89091e-10	1.000000	3.89325e-10	1.000000
rad38	3.30846e-10	1.000000	3.31045e-10	1.000000
Ph+MeAc	2.32471e-10	1.000000	2.32610e-10	1.000000
rad8	5.47505e-11	1.000000	5.47834e-11	1.000000
rad9	3.44054e-11	1.000000	3.44261e-11	1.000000
rad36	2.99995e-11	1.000000	3.00175e-11	1.000000
rad22	1.91478e-11	1.000000	1.91593e-11	1.000000
PAH7+H	1.63351e-11	1.000000	1.63449e-11	1.000000
Ph+Allene	1.43205e-11	1.000000	1.43291e-11	1.000000
rad39	2.85602e-12	1.000000	2.85774e-12	1.000000
rad12	1.93564e-12	1.000000	1.93680e-12	1.000000
rad20	1.84621e-12	1.000000	1.84732e-12	1.000000
rad21	1.19087e-12	1.000000	1.19159e-12	1.000000
rad46	8.44707e-13	1.000000	8.45214e-13	1.000000
rad33	7.58264e-13	1.000000	7.58719e-13	1.000000
rad25	5.00796e-13	1.000000	5.01097e-13	1.000000
PhCH2CCH+H	1.65839e-13	1.000000	1.65939e-13	1.000000
rad14	1.18407e-13	1.000000	1.18478e-13	1.000000
rad27	1.13563e-13	1.000000	1.13631e-13	1.000000
rad60syn	5.15242e-14	1.000000	5.15551e-14	1.000000
rad37	1.93289e-14	1.000000	1.93405e-14	1.000000
rad60anti	1.43091e-14	1.000000	1.43177e-14	1.000000
rad18	1.36354e-14	1.000000	1.36436e-14	1.000000
rad5	3.64645e-16	1.000000	3.64864e-16	1.000000
PAH3+H	1.00612e-16	1.000000	1.00672e-16	1.000000
rad59	3.22243e-17	1.000000	3.22437e-17	1.000000
rad31	9.53215e-18	1.000000	9.53787e-18	1.000000
rad24	7.75068e-18	1.000000	7.75533e-18	1.000000
rad50	2.02675e-18	1.000000	2.02797e-18	1.000000
rad19syn	1.88549e-19	1.000000	1.88663e-19	1.000000
rad54	4.05254e-21	1.000000	4.05497e-21	1.000000
PAH10+CH3	2.72685e-21	1.000000	2.72848e-21	1.000000
rad43	6.45760e-22	1.000000	6.46148e-22	1.000000
rad52	4.34009e-22	1.000000	4.34270e-22	1.000000
rad62	1.63277e-22	1.000000	1.63375e-22	1.000000
rad51	1.13321e-23	1.000000	1.13389e-23	1.000000
PhcycC3H3_A+H	1.03666e-23	1.000000	1.03728e-23	1.000000
rad70	6.81740e-24	1.000000	6.82150e-24	1.000000
rad55	2.85284e-24	1.000000	2.85455e-24	1.000000
rad58	6.67327e-25	1.000000	6.67727e-25	1.000000
PAH1+H	2.46524e-25	1.000000	2.46672e-25	1.000000
rad65	9.40258e-26	1.000000	9.40823e-26	1.000000
rad34	1.51926e-26	1.000000	1.52017e-26	1.000000
rad42	2.27956e-28	1.000000	2.28093e-28	1.000000
rad41	6.66604e-29	1.000000	6.67004e-29	1.000000
rad47	9.26533e-34	1.000000	9.27089e-34	1.000000

0.100000000E-01 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.03546e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998277	0.998277	0.999016	0.999016
rad6	0.000982766	0.999260	0.000983494	0.999999
Benzyl+C2H2	0.000740040	1.000000	0.000000	0.999999
rad2	2.45422e-07	1.000000	2.45604e-07	1.000000
rad7	8.27068e-08	1.000000	8.27680e-08	1.000000
rad23	3.57424e-08	1.000000	3.57689e-08	1.000000
PhCCH+CH3	3.03189e-08	1.000000	3.03414e-08	1.000000
rad28	2.50080e-08	1.000000	2.50265e-08	1.000000
rad11	2.12780e-08	1.000000	2.12938e-08	1.000000
rad30	1.86268e-08	1.000000	1.86406e-08	1.000000
PhCHCCH2+H	1.83655e-08	1.000000	1.83791e-08	1.000000
rad1	1.79841e-08	1.000000	1.79974e-08	1.000000
rad10	1.31831e-08	1.000000	1.31929e-08	1.000000
PhCCCH3+H	1.08801e-08	1.000000	1.08881e-08	1.000000
rad26	6.72896e-09	1.000000	6.73394e-09	1.000000
PAH9+H	2.24905e-09	1.000000	2.25072e-09	1.000000
rad3	2.24255e-09	1.000000	2.24421e-09	1.000000
rad15	2.16222e-09	1.000000	2.16382e-09	1.000000
rad35	1.48340e-09	1.000000	1.48450e-09	1.000000
rad4	1.18150e-09	1.000000	1.18237e-09	1.000000
Ph+MeAc	5.31823e-10	1.000000	5.32217e-10	1.000000
rad38	4.65537e-10	1.000000	4.65881e-10	1.000000
rad13	4.25515e-10	1.000000	4.25830e-10	1.000000
rad45	3.84400e-10	1.000000	3.84685e-10	1.000000
rad8	1.12671e-10	1.000000	1.12754e-10	1.000000
rad9	7.32888e-11	1.000000	7.33431e-11	1.000000
PAH7+H	3.67520e-11	1.000000	3.67792e-11	1.000000
Ph+Allene	3.55671e-11	1.000000	3.55934e-11	1.000000
rad36	2.47107e-11	1.000000	2.47290e-11	1.000000
rad22	1.55771e-11	1.000000	1.55886e-11	1.000000
rad39	6.65319e-12	1.000000	6.65812e-12	1.000000
rad12	4.21911e-12	1.000000	4.22223e-12	1.000000
rad20	1.68979e-12	1.000000	1.69104e-12	1.000000
rad46	1.48342e-12	1.000000	1.48452e-12	1.000000
rad21	1.09339e-12	1.000000	1.09420e-12	1.000000
rad33	8.31550e-13	1.000000	8.32166e-13	1.000000
rad25	5.50866e-13	1.000000	5.51274e-13	1.000000
PhCH2CCH+H	4.83471e-13	1.000000	4.83829e-13	1.000000
rad14	1.51770e-13	1.000000	1.51882e-13	1.000000
rad27	1.42691e-13	1.000000	1.42797e-13	1.000000
rad60syn	1.12915e-13	1.000000	1.12999e-13	1.000000
rad37	5.13685e-14	1.000000	5.14066e-14	1.000000
rad60anti	3.26846e-14	1.000000	3.27088e-14	1.000000
rad18	1.20665e-14	1.000000	1.20755e-14	1.000000
rad5	1.08040e-15	1.000000	1.08120e-15	1.000000
PAH3+H	3.15593e-16	1.000000	3.15827e-16	1.000000
rad59	9.88399e-17	1.000000	9.89131e-17	1.000000
rad31	1.29236e-17	1.000000	1.29332e-17	1.000000
rad24	6.51254e-18	1.000000	6.51737e-18	1.000000
rad50	6.37669e-18	1.000000	6.38142e-18	1.000000
rad19syn	7.92669e-19	1.000000	7.93256e-19	1.000000
rad54	1.91003e-20	1.000000	1.91144e-20	1.000000
PAH10+CH3	1.27639e-20	1.000000	1.27733e-20	1.000000
rad43	3.00072e-21	1.000000	3.00294e-21	1.000000
rad52	1.81269e-21	1.000000	1.81403e-21	1.000000
rad62	8.14768e-22	1.000000	8.15371e-22	1.000000
PhcycC3H3_A+H	6.21114e-23	1.000000	6.21574e-23	1.000000
rad51	5.84269e-23	1.000000	5.84702e-23	1.000000
rad70	3.94917e-23	1.000000	3.95210e-23	1.000000
rad55	1.67249e-23	1.000000	1.67373e-23	1.000000
rad58	4.03301e-24	1.000000	4.03600e-24	1.000000
PAH1+H	1.61230e-24	1.000000	1.61349e-24	1.000000
rad65	5.31025e-25	1.000000	5.31418e-25	1.000000
rad34	1.01769e-25	1.000000	1.01844e-25	1.000000
rad42	1.61976e-27	1.000000	1.62096e-27	1.000000
rad41	4.78017e-28	1.000000	4.78371e-28	1.000000
rad47	5.14331e-33	1.000000	5.14711e-33	1.000000

0.100000000E-01 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 1.89357e-23 (1.00) 1.89185e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998024	0.998024	0.998931	0.998931
rad6	0.00106689	0.999091	0.00106786	0.999999
Benzyl+C2H2	0.000908155	0.999999	0.000000	0.999999
rad2	2.98310e-07	0.999999	2.98581e-07	0.999999
rad7	8.97087e-08	0.999999	8.97902e-08	0.999999
PhCCH+CH3	5.71503e-08	0.999999	5.72023e-08	0.999999
rad28	3.68716e-08	1.000000	3.69051e-08	0.999999
PhCHCCH2+H	3.38942e-08	1.000000	3.39250e-08	0.999999
rad23	2.97621e-08	1.000000	2.97891e-08	0.999999
rad30	2.52016e-08	1.000000	2.52245e-08	0.999999
rad11	2.30073e-08	1.000000	2.30283e-08	0.999999
rad1	2.21750e-08	1.000000	2.21951e-08	0.999999
PhCCCH3+H	2.03677e-08	1.000000	2.03862e-08	0.999999
rad10	1.60315e-08	1.000000	1.60461e-08	1.000000
rad26	9.70855e-09	1.000000	9.71737e-09	1.000000
rad15	3.14287e-09	1.000000	3.14573e-09	1.000000
PAH9+H	3.01974e-09	1.000000	3.02249e-09	1.000000
rad3	2.60072e-09	1.000000	2.60308e-09	1.000000
rad35	1.92628e-09	1.000000	1.92803e-09	1.000000
rad4	1.37594e-09	1.000000	1.37719e-09	1.000000
Ph+MeAc	1.14817e-09	1.000000	1.14922e-09	1.000000
rad38	6.48819e-10	1.000000	6.49409e-10	1.000000
rad13	4.64267e-10	1.000000	4.64689e-10	1.000000
rad45	3.20535e-10	1.000000	3.20827e-10	1.000000
rad8	2.20958e-10	1.000000	2.21159e-10	1.000000
rad9	1.48662e-10	1.000000	1.48798e-10	1.000000
Ph+Allene	8.31403e-11	1.000000	8.32159e-11	1.000000
PAH7+H	7.82038e-11	1.000000	7.82748e-11	1.000000
rad36	2.07347e-11	1.000000	2.07535e-11	1.000000
rad39	1.46151e-11	1.000000	1.46284e-11	1.000000
rad22	1.28688e-11	1.000000	1.28805e-11	1.000000
rad12	8.70010e-12	1.000000	8.70800e-12	1.000000
rad46	2.53258e-12	1.000000	2.53488e-12	1.000000
rad20	1.55034e-12	1.000000	1.55175e-12	1.000000
PhCH2CCH+H	1.31037e-12	1.000000	1.31156e-12	1.000000
rad21	1.00652e-12	1.000000	1.00744e-12	1.000000
rad33	9.09945e-13	1.000000	9.10772e-13	1.000000
rad25	5.96362e-13	1.000000	5.96904e-13	1.000000
rad60syn	2.34894e-13	1.000000	2.35107e-13	1.000000
rad14	1.89949e-13	1.000000	1.90122e-13	1.000000
rad27	1.75761e-13	1.000000	1.75920e-13	1.000000
rad37	1.26758e-13	1.000000	1.26873e-13	1.000000
rad60anti	7.06031e-14	1.000000	7.06673e-14	1.000000
rad18	1.06968e-14	1.000000	1.07065e-14	1.000000
rad5	2.95987e-15	1.000000	2.96256e-15	1.000000
PAH3+H	9.15669e-16	1.000000	9.16501e-16	1.000000
rad59	2.80625e-16	1.000000	2.80880e-16	1.000000
rad50	1.86127e-17	1.000000	1.86297e-17	1.000000
rad31	1.74006e-17	1.000000	1.74164e-17	1.000000
rad24	5.58340e-18	1.000000	5.58847e-18	1.000000
rad19syn	3.00849e-18	1.000000	3.01123e-18	1.000000
rad54	8.05665e-20	1.000000	8.06398e-20	1.000000
PAH10+CH3	5.34089e-20	1.000000	5.34574e-20	1.000000
rad43	1.24588e-20	1.000000	1.24701e-20	1.000000
rad52	6.86128e-21	1.000000	6.86751e-21	1.000000
rad62	3.61436e-21	1.000000	3.61765e-21	1.000000
PhcycC3H3_A+H	3.25328e-22	1.000000	3.25624e-22	1.000000
rad51	2.68081e-22	1.000000	2.68325e-22	1.000000
rad70	2.00606e-22	1.000000	2.00788e-22	1.000000
rad55	8.58929e-23	1.000000	8.59710e-23	1.000000
rad58	2.12864e-23	1.000000	2.13058e-23	1.000000
PAH1+H	9.11410e-24	1.000000	9.12238e-24	1.000000
rad65	2.64120e-24	1.000000	2.64361e-24	1.000000
rad34	5.87403e-25	1.000000	5.87937e-25	1.000000
rad42	9.83989e-27	1.000000	9.84884e-27	1.000000
rad41	2.92702e-27	1.000000	2.92968e-27	1.000000
rad47	2.49626e-32	1.000000	2.49853e-32	1.000000

0.100000000E-01 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.19549e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.997736	0.997736	0.998843	0.998843
rad6	0.00115455	0.998891	0.00115583	0.999999
Benzyl+C2H2	0.00110893	0.999999	0.000000	0.999999
rad2	3.56308e-07	1.000000	3.56703e-07	0.999999
PhCCH+CH3	1.03456e-07	1.000000	1.03571e-07	0.999999
rad7	9.70108e-08	1.000000	9.71185e-08	0.999999
PhCHCCH2+H	6.01730e-08	1.000000	6.02398e-08	0.999999
rad28	5.25955e-08	1.000000	5.26538e-08	1.000000
PhCCCH3+H	3.65971e-08	1.000000	3.66377e-08	1.000000
rad30	3.36986e-08	1.000000	3.37360e-08	1.000000
rad1	2.68952e-08	1.000000	2.69251e-08	1.000000
rad23	2.52821e-08	1.000000	2.53102e-08	1.000000
rad11	2.48246e-08	1.000000	2.48521e-08	1.000000
rad10	1.91597e-08	1.000000	1.91810e-08	1.000000
rad26	1.35296e-08	1.000000	1.35446e-08	1.000000
rad15	4.48861e-09	1.000000	4.49359e-09	1.000000
PAH9+H	4.02950e-09	1.000000	4.03398e-09	1.000000
rad3	2.98978e-09	1.000000	2.99310e-09	1.000000
rad35	2.48940e-09	1.000000	2.49216e-09	1.000000
Ph+MeAc	2.35165e-09	1.000000	2.35426e-09	1.000000
rad4	1.58887e-09	1.000000	1.59064e-09	1.000000
rad38	8.96029e-10	1.000000	8.97023e-10	1.000000
rad13	5.05052e-10	1.000000	5.05613e-10	1.000000
rad8	4.14601e-10	1.000000	4.15061e-10	1.000000
rad9	2.88344e-10	1.000000	2.88664e-10	1.000000
rad45	2.72885e-10	1.000000	2.73188e-10	1.000000
Ph+Allene	1.83984e-10	1.000000	1.84188e-10	1.000000
PAH7+H	1.58205e-10	1.000000	1.58381e-10	1.000000
rad39	3.04439e-11	1.000000	3.04777e-11	1.000000
rad36	1.77743e-11	1.000000	1.77940e-11	1.000000
rad12	1.70576e-11	1.000000	1.70765e-11	1.000000
rad22	1.08221e-11	1.000000	1.08341e-11	1.000000
rad46	4.21493e-12	1.000000	4.21961e-12	1.000000
PhCH2CCH+H	3.32613e-12	1.000000	3.32982e-12	1.000000
rad20	1.42603e-12	1.000000	1.42762e-12	1.000000
rad33	9.92961e-13	1.000000	9.94063e-13	1.000000
rad21	9.29160e-13	1.000000	9.30192e-13	1.000000
rad25	6.36925e-13	1.000000	6.37632e-13	1.000000
rad60syn	4.66416e-13	1.000000	4.66934e-13	1.000000
rad37	2.92665e-13	1.000000	2.92990e-13	1.000000
rad14	2.32616e-13	1.000000	2.32875e-13	1.000000
rad27	2.12507e-13	1.000000	2.12743e-13	1.000000
rad60anti	1.45093e-13	1.000000	1.45255e-13	1.000000
rad18	9.49906e-15	1.000000	9.50961e-15	1.000000
rad5	7.55685e-15	1.000000	7.56524e-15	1.000000
PAH3+H	2.47751e-15	1.000000	2.48026e-15	1.000000
rad59	7.43523e-16	1.000000	7.44348e-16	1.000000
rad50	5.07939e-17	1.000000	5.08503e-17	1.000000
rad31	2.32923e-17	1.000000	2.33182e-17	1.000000
rad19syn	1.04161e-17	1.000000	1.04276e-17	1.000000
rad24	4.89757e-18	1.000000	4.90300e-18	1.000000
rad54	3.07507e-19	1.000000	3.07848e-19	1.000000
PAH10+CH3	2.02022e-19	1.000000	2.02246e-19	1.000000
rad43	4.67425e-20	1.000000	4.67944e-20	1.000000
rad52	2.37721e-20	1.000000	2.37985e-20	1.000000
rad62	1.44202e-20	1.000000	1.44362e-20	1.000000
PhcycC3H3_A+H	1.50923e-21	1.000000	1.51090e-21	1.000000
rad51	1.10683e-21	1.000000	1.10806e-21	1.000000
rad70	9.05093e-22	1.000000	9.06098e-22	1.000000
rad55	3.91426e-22	1.000000	3.91860e-22	1.000000
rad58	9.94210e-23	1.000000	9.95314e-23	1.000000
PAH1+H	4.51961e-23	1.000000	4.52462e-23	1.000000
rad65	1.17107e-23	1.000000	1.17237e-23	1.000000
rad34	2.96675e-24	1.000000	2.97004e-24	1.000000
rad42	5.19914e-26	1.000000	5.20491e-26	1.000000
rad41	1.55751e-26	1.000000	1.55924e-26	1.000000
rad47	1.07437e-31	1.000000	1.07556e-31	1.000000

0.100000000E-01 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17545e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997228	0.997228	0.998886	0.998886
Benzyl+C2H2	0.00165951	0.998888	0.000000	0.998886
rad6	0.00111065	0.999998	0.00111249	0.999998
rad2	3.81785e-07	0.999999	3.82420e-07	0.999999

rad23	3.03894e-07	0.999999	3.04400e-07	0.999999
PhCCH+CH3	2.83772e-07	0.999999	2.84244e-07	0.999999
PhCHCCH2+H	1.51606e-07	0.999999	1.51858e-07	1.000000
rad7	1.02699e-07	0.999999	1.02870e-07	1.000000
PhCCCH3+H	9.75640e-08	0.999999	9.77261e-08	1.000000
rad28	8.37934e-08	1.000000	8.39327e-08	1.000000
rad30	3.74458e-08	1.000000	3.75081e-08	1.000000
rad1	2.87690e-08	1.000000	2.88168e-08	1.000000
rad11	2.69246e-08	1.000000	2.69694e-08	1.000000
rad10	2.14121e-08	1.000000	2.14477e-08	1.000000
rad26	2.00263e-08	1.000000	2.00595e-08	1.000000
Ph+MeAc	6.39237e-09	1.000000	6.40299e-09	1.000000
PAH9+H	5.53607e-09	1.000000	5.54527e-09	1.000000
rad45	3.83789e-09	1.000000	3.84427e-09	1.000000
rad3	3.20036e-09	1.000000	3.20568e-09	1.000000
rad35	2.76240e-09	1.000000	2.76699e-09	1.000000
rad4	1.59155e-09	1.000000	1.59420e-09	1.000000
rad38	1.02242e-09	1.000000	1.02412e-09	1.000000
rad13	5.68882e-10	1.000000	5.69828e-10	1.000000
PAH7+H	5.62273e-10	1.000000	5.63208e-10	1.000000
rad22	3.44556e-10	1.000000	3.45129e-10	1.000000
Ph+Allene	2.91344e-10	1.000000	2.91828e-10	1.000000
rad36	1.30806e-10	1.000000	1.31024e-10	1.000000
rad39	8.65353e-11	1.000000	8.66792e-11	1.000000
rad20	7.94908e-11	1.000000	7.96230e-11	1.000000
rad21	5.08068e-11	1.000000	5.08912e-11	1.000000
rad19anti	1.57889e-11	1.000000	1.58151e-11	1.000000
PhCH2CCH+H	8.72333e-12	1.000000	8.73783e-12	1.000000
rad46	5.66631e-12	1.000000	5.67573e-12	1.000000
rad18	2.70087e-12	1.000000	2.70536e-12	1.000000
rad33	1.36361e-12	1.000000	1.36588e-12	1.000000
rad37	7.53287e-13	1.000000	7.54539e-13	1.000000
rad60syn	7.08370e-13	1.000000	7.09547e-13	1.000000
rad25	6.39896e-13	1.000000	6.40959e-13	1.000000
rad14	3.22108e-13	1.000000	3.22643e-13	1.000000
rad27	3.11763e-13	1.000000	3.12281e-13	1.000000
rad60anti	2.13431e-13	1.000000	2.13786e-13	1.000000
rad9	7.82050e-15	1.000000	7.83350e-15	1.000000
PAH3+H	6.25573e-15	1.000000	6.26613e-15	1.000000
rad59	1.44805e-15	1.000000	1.45046e-15	1.000000
rad24	2.54708e-16	1.000000	2.55131e-16	1.000000
rad50	1.03387e-16	1.000000	1.03559e-16	1.000000
rad31	6.41838e-17	1.000000	6.42905e-17	1.000000
rad19syn	2.83897e-17	1.000000	2.84369e-17	1.000000
rad15	4.55577e-18	1.000000	4.56334e-18	1.000000
rad67	1.30999e-18	1.000000	1.31217e-18	1.000000
rad54	8.93146e-19	1.000000	8.94630e-19	1.000000
PAH10+CH3	6.02109e-19	1.000000	6.03110e-19	1.000000
rad43	1.25356e-19	1.000000	1.25564e-19	1.000000
rad52	6.31559e-20	1.000000	6.32609e-20	1.000000
rad62	4.19336e-20	1.000000	4.20033e-20	1.000000
PhcycC3H3_A+H	7.50566e-21	1.000000	7.51814e-21	1.000000
rad51	3.49035e-21	1.000000	3.49615e-21	1.000000
rad70	3.40399e-21	1.000000	3.40965e-21	1.000000
rad55	1.35734e-21	1.000000	1.35960e-21	1.000000
rad58	3.59930e-22	1.000000	3.60529e-22	1.000000
PAH1+H	2.79623e-22	1.000000	2.80088e-22	1.000000
rad5	8.68696e-23	1.000000	8.70140e-23	1.000000
rad12	8.13280e-23	1.000000	8.14632e-23	1.000000
rad65	4.25196e-23	1.000000	4.25903e-23	1.000000
rad34	1.86970e-23	1.000000	1.87281e-23	1.000000
rad42	4.81157e-25	1.000000	4.81957e-25	1.000000
rad41	1.48742e-25	1.000000	1.48990e-25	1.000000
rad53	6.45041e-27	1.000000	6.46113e-27	1.000000
rad64	1.37992e-27	1.000000	1.38221e-27	1.000000
rad56	9.52507e-30	1.000000	9.54090e-30	1.000000
rad61	1.51043e-30	1.000000	1.51294e-30	1.000000
rad68syn	1.05390e-30	1.000000	1.05565e-30	1.000000
rad68anti	7.52308e-31	1.000000	7.53558e-31	1.000000
rad47	2.41679e-31	1.000000	2.42081e-31	1.000000
rad73	6.20738e-32	1.000000	6.21770e-32	1.000000
rad71	2.28804e-33	1.000000	2.29185e-33	1.000000
rad40syn	6.77543e-34	1.000000	6.78669e-34	1.000000
PAH8+H	3.58167e-34	1.000000	3.58763e-34	1.000000
rad40anti	2.24979e-34	1.000000	2.25353e-34	1.000000
rad72	3.98782e-39	1.000000	3.99445e-39	1.000000
rad8	7.95245e-41	1.000000	7.96567e-41	1.000000

0.100000000E-01 Pa, 310.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	2.44453e-22 (1.00)		2.44055e-22 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997033	0.997033	0.998660	0.998660
Benzyl+C2H2	0.00162914	0.998662	0.000000	0.998660
rad6	0.00133591	0.999998	0.00133809	0.999998
rad2	4.84031e-07	0.999999	4.84820e-07	0.999999
PhCCH+CH3	3.03705e-07	0.999999	3.04201e-07	0.999999
PhCHCCH2+H	1.70602e-07	0.999999	1.70880e-07	0.999999
rad7	1.12144e-07	0.999999	1.12327e-07	0.999999
PhCCCH3+H	1.05710e-07	0.999999	1.05883e-07	0.999999
rad28	9.76529e-08	0.999999	9.78122e-08	0.999999
rad30	5.83541e-08	0.999999	5.84493e-08	0.999999
rad1	3.77902e-08	0.999999	3.78519e-08	0.999999
rad11	2.86239e-08	0.999999	2.86706e-08	0.999999
rad10	2.60684e-08	0.999999	2.61109e-08	1.000000
rad26	2.39229e-08	0.999999	2.39619e-08	1.000000
rad23	1.96078e-08	1.000000	1.96398e-08	1.000000
rad15	8.73649e-09	1.000000	8.75074e-09	1.000000
Ph+MeAc	8.57692e-09	1.000000	8.59091e-09	1.000000
PAH9+H	7.04374e-09	1.000000	7.05524e-09	1.000000
rad35	4.09696e-09	1.000000	4.10364e-09	1.000000
rad3	3.83953e-09	1.000000	3.84579e-09	1.000000
rad4	2.06076e-09	1.000000	2.06413e-09	1.000000
rad38	1.66509e-09	1.000000	1.66781e-09	1.000000
rad8	1.29688e-09	1.000000	1.29900e-09	1.000000
rad9	9.62129e-10	1.000000	9.63699e-10	1.000000
Ph+Allene	7.79735e-10	1.000000	7.81007e-10	1.000000
rad13	5.90954e-10	1.000000	5.91918e-10	1.000000
PAH7+H	5.66425e-10	1.000000	5.67350e-10	1.000000
rad45	2.13192e-10	1.000000	2.13540e-10	1.000000
rad39	1.14816e-10	1.000000	1.15003e-10	1.000000
rad12	5.73409e-11	1.000000	5.74345e-11	1.000000
PhCH2CCH+H	1.80433e-11	1.000000	1.80727e-11	1.000000
rad36	1.41059e-11	1.000000	1.41289e-11	1.000000
rad46	1.09122e-11	1.000000	1.09300e-11	1.000000
rad22	8.16269e-12	1.000000	8.17601e-12	1.000000
rad60syn	1.62902e-12	1.000000	1.63168e-12	1.000000
rad37	1.31130e-12	1.000000	1.31344e-12	1.000000
rad20	1.21669e-12	1.000000	1.21868e-12	1.000000
rad33	1.16975e-12	1.000000	1.17166e-12	1.000000
rad21	7.99122e-13	1.000000	8.00426e-13	1.000000
rad25	7.03112e-13	1.000000	7.04260e-13	1.000000
rad60anti	5.38210e-13	1.000000	5.39088e-13	1.000000
rad14	3.29075e-13	1.000000	3.29612e-13	1.000000
rad27	2.95155e-13	1.000000	2.95637e-13	1.000000
rad5	4.09335e-14	1.000000	4.10003e-14	1.000000
PAH3+H	1.51118e-14	1.000000	1.51365e-14	1.000000
rad18	7.53139e-15	1.000000	7.54368e-15	1.000000
rad59	4.35786e-15	1.000000	4.36498e-15	1.000000
rad50	3.17191e-16	1.000000	3.17709e-16	1.000000
rad19syn	9.80928e-17	1.000000	9.82529e-17	1.000000
rad31	4.12070e-17	1.000000	4.12743e-17	1.000000
rad24	4.08050e-18	1.000000	4.08716e-18	1.000000
rad54	3.44192e-18	1.000000	3.44753e-18	1.000000
PAH10+CH3	2.21572e-18	1.000000	2.21934e-18	1.000000
rad43	5.04005e-19	1.000000	5.04827e-19	1.000000
rad52	2.26095e-19	1.000000	2.26464e-19	1.000000
rad62	1.73565e-19	1.000000	1.73848e-19	1.000000
PhcycC3H3_A+H	2.35674e-20	1.000000	2.36059e-20	1.000000
rad51	1.42591e-20	1.000000	1.42824e-20	1.000000
rad70	1.34719e-20	1.000000	1.34938e-20	1.000000
rad55	5.92812e-21	1.000000	5.93779e-21	1.000000
rad58	1.57018e-21	1.000000	1.57275e-21	1.000000
PAH1+H	7.87543e-22	1.000000	7.88828e-22	1.000000
rad65	1.69803e-22	1.000000	1.70080e-22	1.000000
rad34	5.32921e-23	1.000000	5.33790e-23	1.000000
rad42	1.00716e-24	1.000000	1.00881e-24	1.000000
rad41	3.05355e-25	1.000000	3.05854e-25	1.000000
rad47	1.45523e-30	1.000000	1.45760e-30	1.000000

0.100000000E-01 Pa, 400.000000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	3.60269e-20 (1.00)		3.57084e-20 (1.00)	

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.989492	0.989492	0.998316	0.998316
Benzyl+C2H2	0.00883935	0.998331	0.00000	0.998316
rad6	0.00164700	0.999978	0.00166169	0.999978
PhCCH+CH3	1.05119e-05	0.999989	1.06057e-05	0.999988
PhCHCCH2+H	4.88404e-06	0.999994	4.92760e-06	0.999993
PhCCCH3+H	3.25506e-06	0.999997	3.28409e-06	0.999997
rad2	8.20973e-07	0.999998	8.28295e-07	0.999997
Ph+MeAc	5.15221e-07	0.999998	5.19815e-07	0.999998
rad28	4.33731e-07	0.999999	4.37599e-07	0.999998
rad30	4.01792e-07	0.999999	4.05376e-07	0.999999
rad23	3.71229e-07	1.000000	3.74539e-07	0.999999
rad7	1.58092e-07	1.000000	1.59502e-07	0.999999
rad26	8.49479e-08	1.000000	8.57055e-08	0.999999
rad1	7.64027e-08	1.000000	7.70841e-08	0.999999
PAH9+H	6.80043e-08	1.000000	6.86108e-08	0.999999
Ph+Allene	6.36606e-08	1.000000	6.42284e-08	1.000000
rad10	4.73982e-08	1.000000	4.78209e-08	1.000000
PAH7+H	4.18733e-08	1.000000	4.22468e-08	1.000000
rad11	4.04994e-08	1.000000	4.08606e-08	1.000000
rad35	2.73391e-08	1.000000	2.75829e-08	1.000000
rad38	1.63069e-08	1.000000	1.64524e-08	1.000000
rad45	1.17681e-08	1.000000	1.18730e-08	1.000000
rad39	8.21822e-09	1.000000	8.29152e-09	1.000000
rad3	6.77518e-09	1.000000	6.83560e-09	1.000000
PhCH2CCH+H	4.57645e-09	1.000000	4.61726e-09	1.000000
rad4	3.56805e-09	1.000000	3.59987e-09	1.000000
rad13	9.41520e-10	1.000000	9.49917e-10	1.000000
rad19anti	8.20862e-10	1.000000	8.28183e-10	1.000000
rad36	4.51311e-10	1.000000	4.55335e-10	1.000000
rad46	3.06052e-10	1.000000	3.08782e-10	1.000000
rad22	1.52780e-10	1.000000	1.54142e-10	1.000000
rad37	1.38988e-10	1.000000	1.40228e-10	1.000000
rad60syn	9.47183e-11	1.000000	9.55630e-11	1.000000
rad20	4.15121e-11	1.000000	4.18823e-11	1.000000
rad60anti	3.76535e-11	1.000000	3.79893e-11	1.000000
rad21	2.89932e-11	1.000000	2.92518e-11	1.000000
PAH3+H	6.50549e-12	1.000000	6.56351e-12	1.000000
rad33	2.47272e-12	1.000000	2.49477e-12	1.000000
rad59	1.36011e-12	1.000000	1.37224e-12	1.000000
rad18	1.01588e-12	1.000000	1.02494e-12	1.000000
rad25	9.99855e-13	1.000000	1.00877e-12	1.000000
rad14	8.20227e-13	1.000000	8.27542e-13	1.000000
rad27	7.76539e-13	1.000000	7.83464e-13	1.000000
rad50	1.36799e-13	1.000000	1.38019e-13	1.000000
rad19syn	1.29170e-13	1.000000	1.30322e-13	1.000000
rad9	2.64650e-14	1.000000	2.67010e-14	1.000000
rad54	8.93897e-15	1.000000	9.01869e-15	1.000000
PAH10+CH3	4.93626e-15	1.000000	4.98029e-15	1.000000
rad67	1.67998e-15	1.000000	1.69496e-15	1.000000
rad31	1.09555e-15	1.000000	1.10533e-15	1.000000
rad43	8.84947e-16	1.000000	8.92839e-16	1.000000
rad24	6.76748e-16	1.000000	6.82783e-16	1.000000
rad62	4.90015e-16	1.000000	4.94385e-16	1.000000
rad52	4.12939e-16	1.000000	4.16622e-16	1.000000
PhcycC3H3_A+H	3.22499e-16	1.000000	3.25375e-16	1.000000
rad70	1.20583e-16	1.000000	1.21659e-16	1.000000
rad51	8.24535e-17	1.000000	8.31889e-17	1.000000
rad55	5.05211e-17	1.000000	5.09717e-17	1.000000
PAH1+H	2.44642e-17	1.000000	2.46823e-17	1.000000
rad58	1.79752e-17	1.000000	1.81355e-17	1.000000
rad15	1.63740e-17	1.000000	1.65200e-17	1.000000
rad34	2.03526e-18	1.000000	2.05341e-18	1.000000
rad65	1.70529e-18	1.000000	1.72050e-18	1.000000
rad42	7.33402e-20	1.000000	7.39942e-20	1.000000
rad41	2.38346e-20	1.000000	2.40472e-20	1.000000
rad5	6.16892e-21	1.000000	6.22393e-21	1.000000
rad53	5.76192e-21	1.000000	5.81331e-21	1.000000
rad64	1.88063e-21	1.000000	1.89740e-21	1.000000
rad12	4.64627e-22	1.000000	4.68771e-22	1.000000
rad56	8.35067e-23	1.000000	8.42514e-23	1.000000
rad73	8.34684e-23	1.000000	8.42128e-23	1.000000
rad71	2.02342e-23	1.000000	2.04146e-23	1.000000
rad68syn	1.08024e-23	1.000000	1.08987e-23	1.000000
rad68anti	7.71827e-24	1.000000	7.78711e-24	1.000000
rad61	7.24462e-24	1.000000	7.30923e-24	1.000000
PAH8+H	4.34284e-25	1.000000	4.38157e-25	1.000000
rad40syn	2.09095e-25	1.000000	2.10960e-25	1.000000
rad40anti	7.78984e-26	1.000000	7.85931e-26	1.000000

rad72	1.07594e-26	1.00000	1.08554e-26	1.000000
rad47	5.41590e-27	1.00000	5.46420e-27	1.000000
rad8	4.89672e-37	1.00000	4.94039e-37	1.000000

0.100000000E-01 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.18789e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.967530	0.967530	0.998535	0.998535
Benzyl+C2H2	0.0310498	0.998580	0.00000	0.998535
rad6	0.00125239	0.999832	0.00129252	0.999828
PhCCH+CH3	8.93598e-05	0.999922	9.22233e-05	0.999920
PhCHCCH2+H	3.79356e-05	0.999959	3.91513e-05	0.999959
PhCCCH3+H	2.40685e-05	0.999984	2.48398e-05	0.999984
Ph+MeAc	6.98772e-06	0.999991	7.21164e-06	0.999991
rad30	2.19602e-06	0.999993	2.26639e-06	0.999993
Ph+Allene	2.04285e-06	0.999995	2.10831e-06	0.999995
rad23	1.00329e-06	0.999996	1.03545e-06	0.999996
rad2	7.83914e-07	0.999997	8.09034e-07	0.999997
PAH7+H	6.67869e-07	0.999997	6.89271e-07	0.999998
rad28	5.46878e-07	0.999998	5.64402e-07	0.999998
PAH9+H	4.84144e-07	0.999998	4.99658e-07	0.999999
PhCH2CCH+H	2.44495e-07	0.999999	2.52330e-07	0.999999
rad35	1.65633e-07	0.999999	1.70940e-07	0.999999
rad39	1.49378e-07	0.999999	1.54165e-07	0.999999
rad38	1.34511e-07	0.999999	1.38822e-07	1.000000
rad7	1.28103e-07	0.999999	1.32208e-07	1.000000
rad26	9.41446e-08	0.999999	9.71615e-08	1.000000
rad1	9.36009e-08	0.999999	9.66003e-08	1.000000
rad45	9.11159e-08	0.999999	9.40357e-08	1.000000
rad10	3.98032e-08	0.999999	4.10787e-08	1.000000
rad11	3.38317e-08	0.999999	3.49159e-08	1.000000
rad19anti	1.40655e-08	0.999999	1.45162e-08	1.000000
rad3	8.01582e-09	0.999999	8.27269e-09	1.000000
rad46	5.07788e-09	0.999999	5.24060e-09	1.000000
rad4	4.51378e-09	0.999999	4.65843e-09	1.000000
rad36	4.48947e-09	0.999999	4.63333e-09	1.000000
rad37	2.87097e-09	0.999999	2.96297e-09	1.000000
rad60syn	2.17475e-09	0.999999	2.24444e-09	1.000000
rad60anti	9.78314e-10	0.999999	1.00966e-09	1.000000
rad13	8.52613e-10	0.999999	8.79935e-10	1.000000
PAH3+H	4.98741e-10	0.999999	5.14723e-10	1.000000
rad22	2.14388e-10	0.999999	2.21258e-10	1.000000
rad59	9.55036e-11	0.999999	9.85640e-11	1.000000
rad20	3.30500e-11	0.999999	3.41091e-11	1.000000
rad21	2.59931e-11	0.999999	2.68260e-11	1.000000
rad19syn	2.21225e-11	0.999999	2.28314e-11	1.000000
rad50	1.47904e-11	0.999999	1.52644e-11	1.000000
rad33	2.64379e-12	0.999999	2.72851e-12	1.000000
rad54	2.40347e-12	0.999999	2.48049e-12	1.000000
PAH10+CH3	1.02585e-12	0.999999	1.05872e-12	1.000000
rad25	8.60738e-13	0.999999	8.88320e-13	1.000000
rad14	8.30691e-13	0.999999	8.57311e-13	1.000000
rad27	7.85355e-13	0.999999	8.10522e-13	1.000000
rad18	5.03473e-13	0.999999	5.19606e-13	1.000000
rad67	2.38741e-13	0.999999	2.46391e-13	1.000000
PhcycC3H3_A+H	2.04358e-13	0.999999	2.10906e-13	1.000000
rad43	1.54736e-13	0.999999	1.59695e-13	1.000000
rad52	1.40375e-13	0.999999	1.44874e-13	1.000000
rad62	1.24224e-13	0.999999	1.28205e-13	1.000000
rad9	1.09820e-13	0.999999	1.13339e-13	1.000000
rad51	1.08733e-13	0.999999	1.12218e-13	1.000000
rad70	6.59772e-14	0.999999	6.80915e-14	1.000000
rad55	2.78262e-14	0.999999	2.87179e-14	1.000000
PAH1+H	2.38582e-14	0.999999	2.46228e-14	1.000000
rad58	1.25657e-14	0.999999	1.29684e-14	1.000000
rad31	7.36070e-15	0.999999	7.59657e-15	1.000000
rad24	4.49428e-15	0.999999	4.63829e-15	1.000000
rad65	3.05921e-15	0.999999	3.15724e-15	1.000000
rad34	2.15927e-15	0.999999	2.22846e-15	1.000000
rad73	1.32407e-16	0.999999	1.36650e-16	1.000000
rad71	1.04439e-16	0.999999	1.07785e-16	1.000000
rad42	8.64825e-17	0.999999	8.92538e-17	1.000000
rad15	7.33367e-17	0.999999	7.56867e-17	1.000000
rad41	3.51376e-17	0.999999	3.62635e-17	1.000000
rad53	2.51305e-17	0.999999	2.59358e-17	1.000000

rad64	1.71357e-17	0.999999	1.76848e-17	1.00000
rad56	3.29281e-18	0.999999	3.39833e-18	1.00000
rad72	1.17616e-18	0.999999	1.21385e-18	1.00000
rad61	1.15675e-18	0.999999	1.19382e-18	1.00000
PAH8+H	9.71284e-19	0.999999	1.00241e-18	1.00000
rad68syn	8.12565e-19	0.999999	8.38603e-19	1.00000
rad68anti	5.42596e-19	0.999999	5.59984e-19	1.00000
rad40syn	1.67191e-19	0.999999	1.72548e-19	1.00000
rad40anti	8.97250e-20	0.999999	9.26002e-20	1.00000
rad5	4.95922e-20	0.999999	5.11814e-20	1.00000
rad12	9.78605e-21	0.999999	1.00996e-20	1.00000
rad47	3.36916e-24	0.999999	3.47713e-24	1.00000
rad8	4.54964e-33	0.999999	4.69543e-33	1.00000

0.100000000E-01 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.36947e-17 (1.00)	1.26194e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.920305	0.920305	0.998723	0.998723
Benzyl+C2H2	0.0785177	0.998823	0.00000	0.998723
rad6	0.000559956	0.999383	0.000607669	0.999331
PhCCH+CH3	0.000328980	0.999712	0.000357012	0.999688
PhCHCCH2+H	0.000135261	0.999847	0.000146786	0.999834
PhCCCH3+H	7.42568e-05	0.999921	8.05841e-05	0.999915
Ph+MeAc	3.38277e-05	0.999955	3.67101e-05	0.999952
Ph+Allene	2.16825e-05	0.999977	2.35300e-05	0.999975
rad30	7.59193e-06	0.999984	8.23882e-06	0.999984
PAH7+H	4.37195e-06	0.999989	4.74448e-06	0.999988
PhCH2CCH+H	3.66039e-06	0.999992	3.97228e-06	0.999992
PAH9+H	2.22203e-06	0.999995	2.41136e-06	0.999995
rad23	1.36264e-06	0.999996	1.47875e-06	0.999996
rad39	1.03895e-06	0.999997	1.12748e-06	0.999997
rad38	6.79216e-07	0.999998	7.37090e-07	0.999998
rad35	6.70459e-07	0.999998	7.27587e-07	0.999999
rad2	5.20794e-07	0.999999	5.65170e-07	0.999999
rad28	3.11928e-07	0.999999	3.38507e-07	1.000000
rad45	1.68717e-07	0.999999	1.83093e-07	1.000000
rad19anti	1.16156e-07	0.999999	1.26053e-07	1.000000
rad1	7.63272e-08	0.999999	8.28309e-08	1.00000
rad7	6.32757e-08	1.000000	6.86673e-08	1.00000
rad26	4.95009e-08	1.000000	5.37188e-08	1.00000
rad46	4.08653e-08	1.000000	4.43473e-08	1.00000
rad60syn	1.92855e-08	1.000000	2.09288e-08	1.00000
rad37	1.80987e-08	1.000000	1.96408e-08	1.00000
rad10	1.80102e-08	1.000000	1.95448e-08	1.00000
rad11	1.76903e-08	1.000000	1.91977e-08	1.00000
rad36	1.20200e-08	1.000000	1.30442e-08	1.00000
PAH3+H	9.89822e-09	1.000000	1.07416e-08	1.00000
rad60anti	9.33138e-09	1.000000	1.01265e-08	1.00000
rad3	5.76054e-09	1.000000	6.25139e-09	1.00000
rad4	3.49941e-09	1.000000	3.79759e-09	1.00000
rad59	1.75250e-09	1.000000	1.90183e-09	1.00000
rad19syn	6.86386e-10	1.000000	7.44872e-10	1.00000
rad50	5.81842e-10	1.000000	6.31420e-10	1.00000
rad13	5.07860e-10	1.000000	5.51134e-10	1.00000
rad22	2.38775e-10	1.000000	2.59120e-10	1.00000
rad54	1.00990e-10	1.000000	1.09595e-10	1.00000
rad51	5.13635e-11	1.000000	5.57401e-11	1.00000
rad20	4.41727e-11	1.000000	4.79365e-11	1.00000
rad21	3.93939e-11	1.000000	4.27506e-11	1.00000
PAH10+CH3	3.69852e-11	1.000000	4.01367e-11	1.00000
rad52	2.11178e-11	1.000000	2.29172e-11	1.00000
PhcycC3H3_A+H	1.53530e-11	1.000000	1.66612e-11	1.00000
rad67	9.55473e-12	1.000000	1.03689e-11	1.00000
rad70	4.52744e-12	1.000000	4.91321e-12	1.00000
rad62	4.51774e-12	1.000000	4.90269e-12	1.00000
rad43	4.22297e-12	1.000000	4.58280e-12	1.00000
PAH1+H	3.57969e-12	1.000000	3.88471e-12	1.00000
rad33	2.15263e-12	1.000000	2.33605e-12	1.00000
rad55	1.82876e-12	1.000000	1.98459e-12	1.00000
rad65	1.40805e-12	1.000000	1.52803e-12	1.00000
rad58	1.06972e-12	1.000000	1.16087e-12	1.00000
rad71	9.82490e-13	1.000000	1.06621e-12	1.00000
rad9	8.24510e-13	1.000000	8.94765e-13	1.00000
rad73	7.72569e-13	1.000000	8.38398e-13	1.00000
rad25	5.28155e-13	1.000000	5.73158e-13	1.00000

rad14	5.05400e-13	1.000000	5.48464e-13	1.00000
rad27	4.78343e-13	1.000000	5.19102e-13	1.00000
rad18	3.63866e-13	1.000000	3.94871e-13	1.00000
rad34	2.61565e-13	1.000000	2.83853e-13	1.00000
rad24	5.23286e-14	1.000000	5.67874e-14	1.00000
rad72	2.79556e-14	1.000000	3.03377e-14	1.00000
rad64	2.65338e-14	1.000000	2.87946e-14	1.00000
rad31	1.37496e-14	1.000000	1.49211e-14	1.00000
PAH8+H	1.11288e-14	1.000000	1.20771e-14	1.00000
rad42	9.75566e-15	1.000000	1.05869e-14	1.00000
rad53	8.24363e-15	1.000000	8.94605e-15	1.00000
rad41	7.41430e-15	1.000000	8.04605e-15	1.00000
rad61	5.56352e-15	1.000000	6.03758e-15	1.00000
rad56	3.77548e-15	1.000000	4.09718e-15	1.00000
rad68syn	3.54304e-15	1.000000	3.84494e-15	1.00000
rad68anti	2.30878e-15	1.000000	2.50551e-15	1.00000
rad40syn	1.37683e-15	1.000000	1.49414e-15	1.00000
rad40anti	8.43903e-16	1.000000	9.15811e-16	1.00000
rad15	5.39813e-16	1.000000	5.85809e-16	1.00000
rad12	2.17047e-18	1.000000	2.35541e-18	1.00000
rad5	1.36729e-19	1.000000	1.48380e-19	1.00000
rad47	6.31448e-22	1.000000	6.85253e-22	1.00000
rad8	8.43343e-29	1.000000	9.15203e-29	1.00000

0.1000000000E-01 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	6.78340e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.843875	0.843875	0.998036	0.998036
Benzyl+C2H2	0.154464	0.998339	0.00000	0.998036
PhCCH+CH3	0.000743951	0.999083	0.000879857	0.998916
PhCHCCH2+H	0.000319714	0.999403	0.000378120	0.999294
rad6	0.000177819	0.999580	0.000210304	0.999504
PhCCCH3+H	0.000136183	0.999717	0.000161061	0.999665
Ph+Allene	0.000115931	0.999833	0.000137109	0.999802
Ph+MeAc	8.87459e-05	0.999921	0.000104958	0.999907
PhCH2CCH+H	2.52619e-05	0.999947	2.98768e-05	0.999937
rad30	1.89335e-05	0.999966	2.23923e-05	0.999960
PAH7+H	1.63919e-05	0.999982	1.93864e-05	0.999979
PAH9+H	7.27055e-06	0.999989	8.59875e-06	0.999988
rad39	3.97694e-06	0.999993	4.70345e-06	0.999992
rad38	2.37821e-06	0.999996	2.81267e-06	0.999995
rad35	1.98449e-06	0.999998	2.34702e-06	0.999998
rad23	7.92614e-07	0.999998	9.37410e-07	0.999998
rad19anti	5.91800e-07	0.999999	6.99911e-07	0.999999
rad2	2.13269e-07	0.999999	2.52229e-07	0.999999
rad46	2.00256e-07	0.999999	2.36839e-07	1.000000
rad45	1.18835e-07	0.999999	1.40543e-07	1.000000
rad28	1.14665e-07	1.000000	1.35612e-07	1.000000
rad60syn	9.47830e-08	1.000000	1.12098e-07	1.000000
PAH3+H	8.74574e-08	1.000000	1.03434e-07	1.000000
rad37	5.70090e-08	1.000000	6.74235e-08	1.000000
rad60anti	4.82236e-08	1.000000	5.70332e-08	1.000000
rad1	3.41581e-08	1.000000	4.03981e-08	1.000000
rad7	2.34224e-08	1.000000	2.77013e-08	1.000000
rad26	1.73798e-08	1.000000	2.05548e-08	1.000000
rad59	1.44245e-08	1.000000	1.70596e-08	1.000000
rad36	9.32574e-09	1.000000	1.10294e-08	1.000000
rad19syn	7.76473e-09	1.000000	9.18320e-09	1.000000
rad50	7.50838e-09	1.000000	8.88002e-09	1.000000
rad11	7.18536e-09	1.000000	8.49799e-09	1.000000
rad10	5.67620e-09	1.000000	6.71313e-09	1.000000
rad3	2.23586e-09	1.000000	2.64431e-09	1.000000
rad4	1.42794e-09	1.000000	1.68880e-09	1.000000
rad54	1.41683e-09	1.000000	1.67566e-09	1.000000
rad51	1.02945e-09	1.000000	1.21751e-09	1.000000
PAH10+CH3	4.31641e-10	1.000000	5.10494e-10	1.000000
rad52	3.68871e-10	1.000000	4.36257e-10	1.000000
PhcycC3H3_A+H	3.21634e-10	1.000000	3.80391e-10	1.000000
rad13	2.61885e-10	1.000000	3.09727e-10	1.000000
rad67	1.57095e-10	1.000000	1.85793e-10	1.000000
rad22	1.37616e-10	1.000000	1.62756e-10	1.000000
rad20	9.49324e-11	1.000000	1.12275e-10	1.000000
rad21	9.18054e-11	1.000000	1.08577e-10	1.000000
rad70	8.78767e-11	1.000000	1.03930e-10	1.000000
PAH1+H	8.68358e-11	1.000000	1.02699e-10	1.000000

rad62	5.32869e-11	1.000000	6.30215e-11	1.00000
rad43	3.82476e-11	1.000000	4.52348e-11	1.00000
rad55	3.44698e-11	1.000000	4.07668e-11	1.00000
rad71	3.06231e-11	1.000000	3.62174e-11	1.00000
rad65	2.75748e-11	1.000000	3.26122e-11	1.00000
rad58	2.48573e-11	1.000000	2.93982e-11	1.00000
rad73	2.23704e-11	1.000000	2.64571e-11	1.00000
rad9	8.64212e-12	1.000000	1.02209e-11	1.00000
rad34	6.72646e-12	1.000000	7.95526e-12	1.00000
rad33	1.94977e-12	1.000000	2.30596e-12	1.00000
rad72	9.90272e-13	1.000000	1.17118e-12	1.00000
rad64	7.21036e-13	1.000000	8.52756e-13	1.00000
rad24	5.53928e-13	1.000000	6.55121e-13	1.00000
rad18	4.20039e-13	1.000000	4.96772e-13	1.00000
PAH8+H	4.19928e-13	1.000000	4.96641e-13	1.00000
rad25	2.99021e-13	1.000000	3.53647e-13	1.00000
rad53	2.77277e-13	1.000000	3.27930e-13	1.00000
rad41	2.64078e-13	1.000000	3.12321e-13	1.00000
rad14	2.59204e-13	1.000000	3.06556e-13	1.00000
rad27	2.57600e-13	1.000000	3.04659e-13	1.00000
rad42	2.42534e-13	1.000000	2.86840e-13	1.00000
rad61	1.84684e-13	1.000000	2.18422e-13	1.00000
rad68syn	1.06874e-13	1.000000	1.26398e-13	1.00000
rad56	9.96536e-14	1.000000	1.17858e-13	1.00000
rad68anti	6.95797e-14	1.000000	8.22906e-14	1.00000
rad40syn	5.50565e-14	1.000000	6.51143e-14	1.00000
rad40anti	3.83986e-14	1.000000	4.54133e-14	1.00000
rad31	1.03063e-14	1.000000	1.21891e-14	1.00000
rad15	3.97460e-15	1.000000	4.70069e-15	1.00000
rad12	2.80397e-16	1.000000	3.31621e-16	1.00000
rad5	2.30292e-19	1.000000	2.72362e-19	1.00000
rad47	4.59271e-20	1.000000	5.43172e-20	1.00000
rad8	1.52786e-24	1.000000	1.80698e-24	1.00000

0.100000000E-01 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.12228e-16 (1.00)	2.33588e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745282	0.745282	0.996190	0.996190
Benzyl+C2H2	0.251868	0.997150	0.000000	0.996190
PhCCH+CH3	0.00124036	0.998390	0.00165795	0.997848
PhCHCCH2+H	0.000603575	0.998994	0.000806776	0.998655
Ph+Allene	0.000391583	0.999386	0.000523414	0.999178
PhCCCH3+H	0.000180188	0.999566	0.000240851	0.999419
Ph+MeAc	0.000158817	0.999725	0.000212284	0.999631
PhCH2CCH+H	0.000104752	0.999829	0.000140018	0.999771
rad6	4.80924e-05	0.999877	6.42833e-05	0.999836
PAH7+H	4.20010e-05	0.999919	5.61411e-05	0.999892
rad30	3.73181e-05	0.999957	4.98817e-05	0.999942
PAH9+H	1.83606e-05	0.999975	2.45420e-05	0.999966
rad39	1.01681e-05	0.999985	1.35913e-05	0.999980
rad38	6.31398e-06	0.999992	8.43966e-06	0.999988
rad35	4.62643e-06	0.999996	6.18397e-06	0.999994
rad19anti	2.13433e-06	0.999998	2.85287e-06	0.999997
rad46	6.78695e-07	0.999999	9.07186e-07	0.999998
PAH3+H	4.56207e-07	0.999999	6.09795e-07	0.999999
rad60syn	3.14554e-07	1.000000	4.20452e-07	0.999999
rad23	3.02750e-07	1.000000	4.04675e-07	1.000000
rad60anti	1.66161e-07	1.000000	2.22101e-07	1.000000
rad37	1.16890e-07	1.000000	1.56242e-07	1.000000
rad59	7.05550e-08	1.000000	9.43082e-08	1.000000
rad2	5.90216e-08	1.000000	7.88919e-08	1.000000
rad45	5.81341e-08	1.000000	7.77056e-08	1.000000
rad19syn	4.57661e-08	1.000000	6.11738e-08	1.000000
rad50	3.54634e-08	1.000000	4.74026e-08	1.000000
rad28	3.47720e-08	1.000000	4.64784e-08	1.000000
rad54	9.80420e-09	1.000000	1.31049e-08	1.000000
rad1	9.20474e-09	1.000000	1.23036e-08	1.000000
rad7	8.00878e-09	1.000000	1.07050e-08	1.000000
rad26	5.19815e-09	1.000000	6.94816e-09	1.000000
rad36	4.66704e-09	1.000000	6.23826e-09	1.000000
rad51	3.37574e-09	1.000000	4.51223e-09	1.000000
PhcycC3H3_A+H	3.00679e-09	1.000000	4.01906e-09	1.000000
rad11	2.84864e-09	1.000000	3.80767e-09	1.000000
PAH10+CH3	1.92679e-09	1.000000	2.57546e-09	1.000000
rad10	1.51025e-09	1.000000	2.01870e-09	1.000000

rad52	1.45555e-09	1.00000	1.94558e-09	1.00000
rad67	1.34216e-09	1.00000	1.79401e-09	1.00000
rad70	7.49527e-10	1.00000	1.00186e-09	1.00000
PAH1+H	6.39978e-10	1.00000	8.55434e-10	1.00000
rad3	6.24909e-10	1.00000	8.35292e-10	1.00000
rad4	4.07082e-10	1.00000	5.44131e-10	1.00000
rad62	3.06981e-10	1.00000	4.10330e-10	1.00000
rad55	2.94545e-10	1.00000	3.93707e-10	1.00000
rad20	2.64942e-10	1.00000	3.54138e-10	1.00000
rad58	2.56565e-10	1.00000	3.42941e-10	1.00000
rad21	2.51751e-10	1.00000	3.36505e-10	1.00000
rad13	1.60667e-10	1.00000	2.14757e-10	1.00000
rad43	1.57335e-10	1.00000	2.10303e-10	1.00000
rad71	9.51435e-11	1.00000	1.27175e-10	1.00000
rad65	9.25495e-11	1.00000	1.23707e-10	1.00000
rad73	6.81275e-11	1.00000	9.10635e-11	1.00000
rad9	6.80138e-11	1.00000	9.09115e-11	1.00000
rad34	6.51610e-11	1.00000	8.70982e-11	1.00000
rad22	5.60814e-11	1.00000	7.49618e-11	1.00000
rad53	3.68270e-12	1.00000	4.92252e-12	1.00000
rad64	3.36635e-12	1.00000	4.49968e-12	1.00000
rad72	3.18745e-12	1.00000	4.26054e-12	1.00000
rad24	2.87045e-12	1.00000	3.83683e-12	1.00000
rad33	2.60671e-12	1.00000	3.48428e-12	1.00000
rad42	2.07918e-12	1.00000	2.77916e-12	1.00000
PAH8+H	1.54333e-12	1.00000	2.06291e-12	1.00000
rad41	1.24675e-12	1.00000	1.66648e-12	1.00000
rad56	8.68571e-13	1.00000	1.16099e-12	1.00000
rad18	8.26811e-13	1.00000	1.10517e-12	1.00000
rad61	6.33751e-13	1.00000	8.47111e-13	1.00000
rad68syn	4.17933e-13	1.00000	5.58635e-13	1.00000
rad68anti	2.74817e-13	1.00000	3.67337e-13	1.00000
rad40syn	2.17993e-13	1.00000	2.91383e-13	1.00000
rad25	2.17066e-13	1.00000	2.90144e-13	1.00000
rad27	1.74730e-13	1.00000	2.33555e-13	1.00000
rad40anti	1.61739e-13	1.00000	2.16190e-13	1.00000
rad14	1.53511e-13	1.00000	2.05192e-13	1.00000
rad15	1.98568e-14	1.00000	2.65418e-14	1.00000
rad12	7.14916e-15	1.00000	9.55601e-15	1.00000
rad31	5.72127e-15	1.00000	7.64741e-15	1.00000
rad5	3.47346e-19	1.00000	4.64284e-19	1.00000
rad47	2.91690e-19	1.00000	3.89891e-19	1.00000
rad8	8.23394e-21	1.00000	1.10060e-20	1.00000

0.100000000E-01 Pa, 900.000000 K

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

Total | 9.21769e-16 (1.00) | 5.91949e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.637591	0.637591	0.992842	0.992842
Benzyl+C2H2	0.357812	0.995403	0.000000	0.992842
PhCCH+CH3	0.00168481	0.997088	0.00262355	0.995466
PhCHCCH2+H	0.000987948	0.998076	0.00153841	0.997004
Ph+Allene	0.000956815	0.999033	0.00148993	0.998494
PhCH2CCH+H	0.000305647	0.999338	0.000475947	0.998970
Ph+MeAc	0.000221757	0.999560	0.000345315	0.999315
PhCCCH3+H	0.000192499	0.999752	0.000299756	0.999615
PAH7+H	8.18833e-05	0.999834	0.000127507	0.999742
rad30	6.20698e-05	0.999896	9.66537e-05	0.999839
PAH9+H	3.82278e-05	0.999935	5.95274e-05	0.999899
rad39	1.95110e-05	0.999954	3.03820e-05	0.999929
rad38	1.36762e-05	0.999968	2.12962e-05	0.999950
rad6	1.14185e-05	0.999979	1.77807e-05	0.999968
rad35	9.02572e-06	0.999988	1.40546e-05	0.999982
rad19anti	5.95559e-06	0.999994	9.27391e-06	0.999991
rad46	1.78219e-06	0.999996	2.77518e-06	0.999994
PAH3+H	1.66026e-06	0.999998	2.58532e-06	0.999997
rad60syn	7.95297e-07	0.999998	1.23842e-06	0.999998
rad60anti	4.32695e-07	0.999999	6.73783e-07	0.999999
rad59	2.41998e-07	0.999999	3.76834e-07	0.999999
rad37	1.83411e-07	0.999999	2.85604e-07	0.999999
rad19syn	1.72548e-07	1.000000	2.68687e-07	1.000000
rad50	1.27292e-07	1.000000	1.98216e-07	1.000000
rad23	1.12841e-07	1.000000	1.75713e-07	1.000000
rad54	4.18798e-08	1.000000	6.52142e-08	1.000000
rad45	2.60982e-08	1.000000	4.06394e-08	1.000000
PhcycC3H3_A+H	1.64122e-08	1.000000	2.55568e-08	1.000000

rad2	1.31147e-08	1.000000	2.04218e-08	1.00000
rad28	9.26201e-09	1.000000	1.44226e-08	1.00000
rad67	7.71990e-09	1.000000	1.20212e-08	1.00000
rad51	7.55610e-09	1.000000	1.17662e-08	1.00000
PAH10+CH3	5.80709e-09	1.000000	9.04266e-09	1.00000
rad52	4.57211e-09	1.000000	7.11958e-09	1.00000
rad70	3.83802e-09	1.000000	5.97648e-09	1.00000
PAH1+H	3.20859e-09	1.000000	4.99634e-09	1.00000
rad7	2.70248e-09	1.000000	4.20824e-09	1.00000
rad36	2.23513e-09	1.000000	3.48049e-09	1.00000
rad1	2.17066e-09	1.000000	3.38011e-09	1.00000
rad58	1.60569e-09	1.000000	2.50035e-09	1.00000
rad55	1.47872e-09	1.000000	2.30262e-09	1.00000
rad26	1.42557e-09	1.000000	2.21987e-09	1.00000
rad11	1.21901e-09	1.000000	1.89822e-09	1.00000
rad62	1.10398e-09	1.000000	1.71910e-09	1.00000
rad20	6.05072e-10	1.000000	9.42205e-10	1.00000
rad21	5.12035e-10	1.000000	7.97328e-10	1.00000
rad10	4.31724e-10	1.000000	6.72270e-10	1.00000
rad43	4.08266e-10	1.000000	6.35743e-10	1.00000
rad34	3.87866e-10	1.000000	6.03976e-10	1.00000
rad65	2.26439e-10	1.000000	3.52606e-10	1.00000
rad9	2.04419e-10	1.000000	3.18316e-10	1.00000
rad3	1.63703e-10	1.000000	2.54914e-10	1.00000
rad13	1.37783e-10	1.000000	2.14552e-10	1.00000
rad4	1.12904e-10	1.000000	1.75811e-10	1.00000
rad71	9.70991e-11	1.000000	1.51200e-10	1.00000
rad73	6.95538e-11	1.000000	1.08308e-10	1.00000
rad53	2.99414e-11	1.000000	4.66241e-11	1.00000
rad22	2.33903e-11	1.000000	3.64228e-11	1.00000
rad64	1.43137e-11	1.000000	2.22889e-11	1.00000
rad42	1.06121e-11	1.000000	1.65250e-11	1.00000
rad56	7.86571e-12	1.000000	1.22483e-11	1.00000
rad24	5.74725e-12	1.000000	8.94949e-12	1.00000
rad33	3.97065e-12	1.000000	6.18300e-12	1.00000
rad72	3.29840e-12	1.000000	5.13619e-12	1.00000
rad41	2.62706e-12	1.000000	4.09080e-12	1.00000
rad18	2.34018e-12	1.000000	3.64407e-12	1.00000
PAH8+H	2.05035e-12	1.000000	3.19276e-12	1.00000
rad68syn	1.55447e-12	1.000000	2.42059e-12	1.00000
rad68anti	1.04461e-12	1.000000	1.62664e-12	1.00000
rad61	7.70242e-13	1.000000	1.19940e-12	1.00000
rad40syn	3.51606e-13	1.000000	5.47513e-13	1.00000
rad40anti	2.30299e-13	1.000000	3.58617e-13	1.00000
rad25	2.30093e-13	1.000000	3.58295e-13	1.00000
rad27	1.45216e-13	1.000000	2.26126e-13	1.00000
rad14	1.12931e-13	1.000000	1.75854e-13	1.00000
rad15	4.91569e-14	1.000000	7.65459e-14	1.00000
rad12	3.94061e-14	1.000000	6.13623e-14	1.00000
rad31	3.16974e-15	1.000000	4.93585e-15	1.00000
rad8	5.05500e-18	1.000000	7.87153e-18	1.00000
rad47	6.07114e-19	1.000000	9.45384e-19	1.00000
rad5	5.02660e-19	1.000000	7.82730e-19	1.00000

0.100000000E-01 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.23691e-15 (1.00)	1.20781e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.533141	0.533141	0.987401	0.987401
Benzyl+C2H2	0.460056	0.993197	0.00000	0.987401
PhCCH+CH3	0.00197825	0.995175	0.00366380	0.991065
Ph+Allene	0.00184724	0.997022	0.00342117	0.994486
PhCHCCH2+H	0.00145006	0.998473	0.00268558	0.997172
PhCH2CCH+H	0.000695147	0.999168	0.00128744	0.998459
Ph+MeAc	0.000262377	0.999430	0.000485934	0.998945
PhCCCH3+H	0.000177996	0.999608	0.000329656	0.999275
PAH7+H	0.000130566	0.999739	0.000241814	0.999516
rad30	9.13368e-05	0.999830	0.000169160	0.999686
PAH9+H	6.89837e-05	0.999899	0.000127761	0.999813
rad39	3.03517e-05	0.999929	5.62127e-05	0.999870
rad38	2.55111e-05	0.999955	4.72476e-05	0.999917
rad35	1.54336e-05	0.999970	2.85837e-05	0.999945
rad19anti	1.36967e-05	0.999984	2.53668e-05	0.999971
PAH3+H	4.67746e-06	0.999989	8.66286e-06	0.999979
rad46	3.90458e-06	0.999993	7.23145e-06	0.999987
rad6	2.69363e-06	0.999995	4.98871e-06	0.999992

rad60syn	1.65648e-06	0.999997	3.06787e-06	0.999995
rad60anti	9.23131e-07	0.999998	1.70968e-06	0.999996
rad59	6.45429e-07	0.999998	1.19536e-06	0.999998
rad19syn	4.72667e-07	0.999999	8.75401e-07	0.999998
rad50	4.07342e-07	0.999999	7.54415e-07	0.999999
rad37	2.45721e-07	1.000000	4.55086e-07	1.000000
rad54	1.26771e-07	1.000000	2.34786e-07	1.000000
PhcycC3H3_A+H	6.09512e-08	1.000000	1.12884e-07	1.000000
rad23	4.80803e-08	1.000000	8.90469e-08	1.000000
rad67	3.29595e-08	1.000000	6.10424e-08	1.000000
rad51	2.54518e-08	1.000000	4.71378e-08	1.000000
rad52	1.60221e-08	1.000000	2.96736e-08	1.000000
PAH10+CH3	1.51447e-08	1.000000	2.80487e-08	1.000000
rad70	1.36712e-08	1.000000	2.53196e-08	1.000000
rad45	1.25309e-08	1.000000	2.32078e-08	1.000000
PAH1+H	1.19838e-08	1.000000	2.21946e-08	1.000000
rad58	7.00856e-09	1.000000	1.29802e-08	1.000000
rad55	5.08752e-09	1.000000	9.42232e-09	1.000000
rad2	3.04557e-09	1.000000	5.64053e-09	1.000000
rad62	2.86109e-09	1.000000	5.29886e-09	1.000000
rad28	2.49539e-09	1.000000	4.62158e-09	1.000000
rad34	1.59675e-09	1.000000	2.95726e-09	1.000000
rad36	1.11661e-09	1.000000	2.06800e-09	1.000000
rad7	1.07920e-09	1.000000	1.99873e-09	1.000000
rad20	8.82251e-10	1.000000	1.63397e-09	1.000000
rad43	8.08139e-10	1.000000	1.49671e-09	1.000000
rad65	8.03606e-10	1.000000	1.48831e-09	1.000000
rad11	7.18674e-10	1.000000	1.33102e-09	1.000000
rad21	6.41973e-10	1.000000	1.18896e-09	1.000000
rad1	5.71452e-10	1.000000	1.05835e-09	1.000000
rad26	4.10785e-10	1.000000	7.60792e-10	1.000000
rad9	2.68686e-10	1.000000	4.97618e-10	1.000000
rad10	1.84422e-10	1.000000	3.41557e-10	1.000000
rad13	1.63651e-10	1.000000	3.03089e-10	1.000000
rad53	1.57317e-10	1.000000	2.91357e-10	1.000000
rad71	6.81348e-11	1.000000	1.26189e-10	1.000000
rad64	6.44729e-11	1.000000	1.19407e-10	1.000000
rad73	5.58646e-11	1.000000	1.03464e-10	1.000000
rad56	5.18731e-11	1.000000	9.60713e-11	1.000000
rad3	4.92287e-11	1.000000	9.11737e-11	1.000000
rad42	3.81305e-11	1.000000	7.06193e-11	1.000000
rad4	3.57615e-11	1.000000	6.62318e-11	1.000000
rad22	1.20582e-11	1.000000	2.23323e-11	1.000000
rad68syn	8.98954e-12	1.000000	1.66490e-11	1.000000
rad18	8.05339e-12	1.000000	1.49152e-11	1.000000
rad68anti	6.04808e-12	1.000000	1.12013e-11	1.000000
rad24	5.90768e-12	1.000000	1.09413e-11	1.000000
rad41	5.65299e-12	1.000000	1.04696e-11	1.000000
PAH8+H	4.98494e-12	1.000000	9.23232e-12	1.000000
rad33	4.81554e-12	1.000000	8.91860e-12	1.000000
rad72	2.15955e-12	1.000000	3.99958e-12	1.000000
rad61	1.20104e-12	1.000000	2.22437e-12	1.000000
rad40syn	1.17478e-12	1.000000	2.17574e-12	1.000000
rad40anti	5.51403e-13	1.000000	1.02122e-12	1.000000
rad25	3.17936e-13	1.000000	5.88832e-13	1.000000
rad27	1.15934e-13	1.000000	2.14715e-13	1.000000
rad14	9.62409e-14	1.000000	1.78242e-13	1.000000
rad12	8.61788e-14	1.000000	1.59607e-13	1.000000
rad15	6.99434e-14	1.000000	1.29538e-13	1.000000
rad31	1.85913e-15	1.000000	3.44319e-15	1.000000
rad8	3.09653e-16	1.000000	5.73491e-16	1.000000
rad47	1.77211e-18	1.000000	3.28202e-18	1.000000
rad5	8.43068e-19	1.000000	1.56140e-18	1.000000

0.100000000E-01 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.11075e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.550759	0.550759	0.00000	0.00000
Indene+H	0.439888	0.990647	0.979180	0.979180
Ph+Allene	0.00299529	0.993642	0.00666745	0.985847
PhCCH+CH3	0.00208752	0.995730	0.00464677	0.990494
PhCHCCH2+H	0.00194543	0.997675	0.00433048	0.994825
PhCH2CCH+H	0.00132192	0.998997	0.00294255	0.997767
Ph+MeAc	0.000277392	0.999275	0.000617468	0.998385
PAH7+H	0.000179387	0.999454	0.000399312	0.998784

PhCCCH3+H	0.000149155	0.999603	0.000332014	0.999116
rad30	0.000123015	0.999726	0.000273827	0.999390
PAH9+H	0.000111712	0.999838	0.000248667	0.999639
rad38	4.25054e-05	0.999880	9.46160e-05	0.999733
rad39	4.04289e-05	0.999921	8.99938e-05	0.999823
rad19anti	2.71782e-05	0.999948	6.04981e-05	0.999884
rad35	2.39126e-05	0.999972	5.32288e-05	0.999937
PAH3+H	1.09196e-05	0.999983	2.43066e-05	0.999961
rad46	7.45130e-06	0.999990	1.65864e-05	0.999978
rad60syn	2.99525e-06	0.999993	6.66735e-06	0.999984
rad60anti	1.70292e-06	0.999995	3.79065e-06	0.999988
rad59	1.43232e-06	0.999996	3.18830e-06	0.999991
rad50	1.10605e-06	0.999997	2.46203e-06	0.999994
rad19syn	1.02397e-06	0.999998	2.27934e-06	0.999996
rad6	6.94179e-07	0.999999	1.54523e-06	0.999998
rad37	3.04651e-07	0.999999	6.78145e-07	0.999998
rad54	2.97946e-07	1.000000	6.63219e-07	0.999999
PhcycC3H3_A+H	1.70474e-07	1.000000	3.79471e-07	0.999999
rad67	1.11040e-07	1.000000	2.47172e-07	1.000000
rad51	8.75148e-08	1.000000	1.94806e-07	1.000000
rad52	4.97444e-08	1.000000	1.10730e-07	1.000000
rad70	3.72430e-08	1.000000	8.29019e-08	1.000000
PAH10+CH3	3.56640e-08	1.000000	7.93872e-08	1.000000
PAH1+H	3.40768e-08	1.000000	7.58540e-08	1.000000
rad58	2.33996e-08	1.000000	5.20868e-08	1.000000
rad23	2.22948e-08	1.000000	4.96277e-08	1.000000
rad55	1.32730e-08	1.000000	2.95453e-08	1.000000
rad45	6.29660e-09	1.000000	1.40161e-08	1.000000
rad62	5.84637e-09	1.000000	1.30139e-08	1.000000
rad34	4.93389e-09	1.000000	1.09827e-08	1.000000
rad65	2.77678e-09	1.000000	6.18105e-09	1.000000
rad43	1.31584e-09	1.000000	2.92903e-09	1.000000
rad2	7.95777e-10	1.000000	1.77138e-09	1.000000
rad20	7.94094e-10	1.000000	1.76763e-09	1.000000
rad28	7.42449e-10	1.000000	1.65267e-09	1.000000
rad11	6.61485e-10	1.000000	1.47245e-09	1.000000
rad7	6.15812e-10	1.000000	1.37078e-09	1.000000
rad53	5.86870e-10	1.000000	1.30636e-09	1.000000
rad36	5.73639e-10	1.000000	1.27691e-09	1.000000
rad21	5.10944e-10	1.000000	1.13735e-09	1.000000
rad9	2.50850e-10	1.000000	5.58386e-10	1.000000
rad56	2.36403e-10	1.000000	5.26228e-10	1.000000
rad64	2.27332e-10	1.000000	5.06035e-10	1.000000
rad13	1.80095e-10	1.000000	4.00887e-10	1.000000
rad1	1.63027e-10	1.000000	3.62894e-10	1.000000
rad26	1.32791e-10	1.000000	2.95590e-10	1.000000
rad73	1.11969e-10	1.000000	2.49240e-10	1.000000
rad10	1.10023e-10	1.000000	2.44909e-10	1.000000
rad42	1.03298e-10	1.000000	2.29938e-10	1.000000
rad71	8.58289e-11	1.000000	1.91053e-10	1.000000
rad68syn	4.27372e-11	1.000000	9.51320e-11	1.000000
rad68anti	2.86092e-11	1.000000	6.36834e-11	1.000000
PAH8+H	2.72553e-11	1.000000	6.06697e-11	1.000000
rad18	2.49185e-11	1.000000	5.54680e-11	1.000000
rad3	1.65837e-11	1.000000	3.69149e-11	1.000000
rad4	1.24215e-11	1.000000	2.76499e-11	1.000000
rad41	1.24002e-11	1.000000	2.76026e-11	1.000000
rad22	7.33229e-12	1.000000	1.63215e-11	1.000000
rad40syn	6.16599e-12	1.000000	1.37253e-11	1.000000
rad24	4.56170e-12	1.000000	1.01542e-11	1.000000
rad61	4.37083e-12	1.000000	9.72936e-12	1.000000
rad33	3.97552e-12	1.000000	8.84941e-12	1.000000
rad40anti	2.80352e-12	1.000000	6.24056e-12	1.000000
rad72	1.43183e-12	1.000000	3.18721e-12	1.000000
rad25	3.95676e-13	1.000000	8.80766e-13	1.000000
rad12	1.26351e-13	1.000000	2.81254e-13	1.000000
rad15	8.31505e-14	1.000000	1.85091e-13	1.000000
rad14	7.64498e-14	1.000000	1.70175e-13	1.000000
rad27	7.17960e-14	1.000000	1.59816e-13	1.000000
rad8	3.02697e-15	1.000000	6.73796e-15	1.000000
rad31	1.11586e-15	1.000000	2.48388e-15	1.000000
rad47	6.07223e-18	1.000000	1.35166e-17	1.000000
rad5	1.71540e-18	1.000000	3.81844e-18	1.000000

0.100000000E-01 Pa, 1200.00000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 8.84330e-15 (1.00) 3.30079e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.626747	0.626747	0.00000	0.00000
Indene+H	0.361139	0.987886	0.967544	0.967544
Ph+Allene	0.00426332	0.992149	0.0114221	0.978966
PhCHCCH2+H	0.00242727	0.994577	0.00650301	0.985469
PhCH2CCH+H	0.00220912	0.996786	0.00591856	0.991388
PhCCH+CH3	0.00203526	0.998821	0.00545276	0.996840
Ph+MeAc	0.000271658	0.999093	0.000727812	0.997568
PAH7+H	0.000220960	0.999314	0.000591983	0.998160
PAH9+H	0.000166485	0.999480	0.000446037	0.998606
rad30	0.000155353	0.999635	0.000416215	0.999022
PhCCCH3+H	0.000117023	0.999752	0.000313521	0.999336
rad38	6.49407e-05	0.999817	0.000173986	0.999510
rad19anti	4.80911e-05	0.999865	0.000128843	0.999639
rad39	4.80578e-05	0.999914	0.000128754	0.999768
rad35	3.43910e-05	0.999948	9.21386e-05	0.999860
PAH3+H	2.21254e-05	0.999970	5.92771e-05	0.999919
rad46	1.27777e-05	0.999983	3.42332e-05	0.999953
rad60syn	4.87439e-06	0.999988	1.30592e-05	0.999966
rad60anti	2.81860e-06	0.999991	7.55145e-06	0.999974
rad59	2.76937e-06	0.999993	7.41954e-06	0.999981
rad50	2.58122e-06	0.999996	6.91546e-06	0.999988
rad19syn	1.86137e-06	0.999998	4.98689e-06	0.999993
rad54	5.79326e-07	0.999998	1.55210e-06	0.999995
PhcycC3H3_A+H	3.85546e-07	0.999999	1.03293e-06	0.999996
rad37	3.71928e-07	0.999999	9.96450e-07	0.999997
rad67	3.10072e-07	0.999999	8.30728e-07	0.999998
rad51	2.56880e-07	1.000000	6.88220e-07	0.999998
rad6	2.16721e-07	1.000000	5.80627e-07	0.999999
rad52	1.30949e-07	1.000000	3.50831e-07	0.999999
rad70	8.31685e-08	1.000000	2.22821e-07	0.999999
PAH10+CH3	7.86700e-08	1.000000	2.10768e-07	1.000000
PAH1+H	7.84428e-08	1.000000	2.10160e-07	1.000000
rad58	6.38236e-08	1.000000	1.70993e-07	1.000000
rad55	2.81617e-08	1.000000	7.54494e-08	1.000000
rad34	1.22943e-08	1.000000	3.29383e-08	1.000000
rad23	1.09773e-08	1.000000	2.94099e-08	1.000000
rad62	1.00324e-08	1.000000	2.68784e-08	1.000000
rad65	8.09190e-09	1.000000	2.16794e-08	1.000000
rad45	3.26142e-09	1.000000	8.73783e-09	1.000000
rad43	1.86297e-09	1.000000	4.99117e-09	1.000000
rad53	1.69061e-09	1.000000	4.52939e-09	1.000000
rad56	8.06579e-10	1.000000	2.16094e-09	1.000000
rad11	7.21858e-10	1.000000	1.93396e-09	1.000000
rad64	6.30603e-10	1.000000	1.68948e-09	1.000000
rad7	5.42630e-10	1.000000	1.45379e-09	1.000000
rad20	5.25401e-10	1.000000	1.40763e-09	1.000000
rad73	4.81166e-10	1.000000	1.28911e-09	1.000000
rad71	3.38518e-10	1.000000	9.06940e-10	1.000000
rad21	3.17213e-10	1.000000	8.49859e-10	1.000000
rad36	3.01858e-10	1.000000	8.08721e-10	1.000000
rad28	2.63235e-10	1.000000	7.05246e-10	1.000000
rad2	2.26531e-10	1.000000	6.06910e-10	1.000000
rad42	2.26001e-10	1.000000	6.05491e-10	1.000000
rad9	2.14283e-10	1.000000	5.74096e-10	1.000000
rad68syn	1.55999e-10	1.000000	4.17943e-10	1.000000
rad13	1.41868e-10	1.000000	3.80085e-10	1.000000
PAH8+H	1.30902e-10	1.000000	3.50705e-10	1.000000
rad68anti	1.03919e-10	1.000000	2.78414e-10	1.000000
rad10	7.08638e-11	1.000000	1.89854e-10	1.000000
rad18	5.25950e-11	1.000000	1.40910e-10	1.000000
rad26	5.00575e-11	1.000000	1.34111e-10	1.000000
rad1	4.87650e-11	1.000000	1.30649e-10	1.000000
rad40syn	2.65164e-11	1.000000	7.10413e-11	1.000000
rad41	2.44028e-11	1.000000	6.53786e-11	1.000000
rad61	1.77286e-11	1.000000	4.74976e-11	1.000000
rad40anti	1.25801e-11	1.000000	3.37038e-11	1.000000
rad3	6.01679e-12	1.000000	1.61199e-11	1.000000
rad22	5.56736e-12	1.000000	1.49158e-11	1.000000
rad4	4.58917e-12	1.000000	1.22951e-11	1.000000
rad24	3.33437e-12	1.000000	8.93325e-12	1.000000
rad72	2.82603e-12	1.000000	7.57134e-12	1.000000
rad33	2.52655e-12	1.000000	6.76899e-12	1.000000
rad25	3.68856e-13	1.000000	9.88220e-13	1.000000
rad12	1.57460e-13	1.000000	4.21859e-13	1.000000
rad15	1.12872e-13	1.000000	3.02401e-13	1.000000
rad14	4.98181e-14	1.000000	1.33470e-13	1.000000
rad27	3.37900e-14	1.000000	9.05283e-14	1.000000
rad8	9.89274e-15	1.000000	2.65041e-14	1.000000

rad31	6.76700e-16	1.00000	1.81298e-15	1.00000
rad47	1.81815e-17	1.00000	4.87108e-17	1.00000
rad5	4.10045e-18	1.00000	1.09857e-17	1.00000

0.100000000E-01 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.52810e-14 (1.00)	4.76644e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.688080	0.688080	0.000000	0.000000
Indene+H	0.296943	0.985023	0.951985	0.951985
Ph+Allene	0.00550435	0.990527	0.0176466	0.969632
PhCH2CCH+H	0.00336232	0.993890	0.0107794	0.980411
PhCHCCH2+H	0.00286585	0.996756	0.00918776	0.989599
PhCCH+CH3	0.00187196	0.998627	0.00600140	0.995600
Ph+MeAc	0.000252916	0.998880	0.000810834	0.996411
PAH7+H	0.000251840	0.999132	0.000807387	0.997218
PAH9+H	0.000232570	0.999365	0.000745606	0.997964
rad30	0.00187145	0.999552	0.000599977	0.998564
rad38	9.27379e-05	0.999645	0.000297313	0.998861
PhCCCH3+H	8.81946e-05	0.999733	0.000282747	0.999144
rad19anti	7.76867e-05	0.999811	0.000249059	0.999393
rad39	5.27143e-05	0.999863	0.000168999	0.999562
rad35	4.67246e-05	0.999910	0.000149797	0.999712
PAH3+H	4.01932e-05	0.999950	0.000128857	0.999841
rad46	2.01489e-05	0.999970	6.45963e-05	0.999905
rad60syn	7.32140e-06	0.999978	2.34720e-05	0.999929
rad50	5.32296e-06	0.999983	1.70651e-05	0.999946
rad59	4.81766e-06	0.999988	1.54452e-05	0.999961
rad60anti	4.29551e-06	0.999992	1.37712e-05	0.999975
rad19syn	2.96346e-06	0.999995	9.50070e-06	0.999985
rad54	9.75315e-07	0.999996	3.12681e-06	0.999988
rad67	7.44269e-07	0.999997	2.38609e-06	0.999990
PhcycC3H3_A+H	7.41848e-07	0.999998	2.37832e-06	0.999992
rad51	6.46841e-07	0.999998	2.07374e-06	0.999995
rad37	4.66736e-07	0.999999	1.49633e-06	0.999996
rad52	2.99243e-07	0.999999	9.59358e-07	0.999997
PAH10+CH3	1.66618e-07	0.999999	5.34169e-07	0.999998
rad70	1.60099e-07	0.999999	5.13269e-07	0.999998
PAH1+H	1.54585e-07	0.999999	4.95591e-07	0.999999
rad58	1.48960e-07	1.000000	4.77557e-07	0.999999
rad6	8.80054e-08	1.000000	2.82141e-07	0.999999
rad55	5.10753e-08	1.000000	1.63745e-07	0.999999
rad34	2.60675e-08	1.000000	8.35711e-08	1.000000
rad65	2.01575e-08	1.000000	6.46239e-08	1.000000
rad62	1.51329e-08	1.000000	4.85151e-08	1.000000
rad23	5.72708e-09	1.000000	1.83607e-08	1.000000
rad53	3.99910e-09	1.000000	1.28209e-08	1.000000
rad43	2.42254e-09	1.000000	7.76654e-09	1.000000
rad56	2.20475e-09	1.000000	7.06832e-09	1.000000
rad73	1.95439e-09	1.000000	6.26569e-09	1.000000
rad45	1.73583e-09	1.000000	5.56499e-09	1.000000
rad71	1.53474e-09	1.000000	4.92030e-09	1.000000
rad64	1.45741e-09	1.000000	4.67239e-09	1.000000
rad11	6.50664e-10	1.000000	2.08600e-09	1.000000
rad7	5.37129e-10	1.000000	1.72201e-09	1.000000
PAH8+H	4.97228e-10	1.000000	1.59409e-09	1.000000
rad68syn	4.61156e-10	1.000000	1.47844e-09	1.000000
rad42	4.21665e-10	1.000000	1.35184e-09	1.000000
rad20	3.18198e-10	1.000000	1.02013e-09	1.000000
rad68anti	3.05873e-10	1.000000	9.80612e-10	1.000000
rad21	1.87723e-10	1.000000	6.01829e-10	1.000000
rad9	1.74608e-10	1.000000	5.59784e-10	1.000000
rad36	1.62899e-10	1.000000	5.22246e-10	1.000000
rad28	1.17610e-10	1.000000	3.77051e-10	1.000000
rad40syn	9.09729e-11	1.000000	2.91654e-10	1.000000
rad13	8.49301e-11	1.000000	2.72281e-10	1.000000
rad2	6.83544e-11	1.000000	2.19141e-10	1.000000
rad18	6.80229e-11	1.000000	2.18078e-10	1.000000
rad61	6.30849e-11	1.000000	2.02247e-10	1.000000
rad40anti	4.50377e-11	1.000000	1.44388e-10	1.000000
rad41	4.40031e-11	1.000000	1.41072e-10	1.000000
rad10	3.98448e-11	1.000000	1.27740e-10	1.000000
rad26	2.20402e-11	1.000000	7.06597e-11	1.000000
rad1	1.51497e-11	1.000000	4.85693e-11	1.000000
rad72	1.48876e-11	1.000000	4.77289e-11	1.000000
rad22	6.85813e-12	1.000000	2.19868e-11	1.000000

rad24	2.44030e-12	1.000000	7.82347e-12	1.000000
rad3	2.30696e-12	1.000000	7.39598e-12	1.000000
rad4	1.78161e-12	1.000000	5.71176e-12	1.000000
rad33	1.49109e-12	1.000000	4.78036e-12	1.000000
rad25	2.76232e-13	1.000000	8.85586e-13	1.000000
rad15	2.66523e-13	1.000000	8.54459e-13	1.000000
rad12	1.79605e-13	1.000000	5.75804e-13	1.000000
rad14	2.73156e-14	1.000000	8.75725e-14	1.000000
rad8	1.89596e-14	1.000000	6.07836e-14	1.000000
rad27	1.36453e-14	1.000000	4.37462e-14	1.000000
rad31	4.14102e-16	1.000000	1.32759e-15	1.000000
rad47	4.64917e-17	1.000000	1.49050e-16	1.000000
rad5	1.04221e-17	1.000000	3.34128e-17	1.000000

0.100000000E-01 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.46691e-14 (1.00)	6.50155e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.736450	0.736450	0.000000	0.000000
Indene+H	0.245659	0.982109	0.932117	0.932117
Ph+Allene	0.00660863	0.988718	0.0250755	0.957193
PhCH2CCH+H	0.00478129	0.993499	0.0181419	0.975334
PhCHCCH2+H	0.00325579	0.996755	0.0123536	0.987688
PhCCH+CH3	0.00165083	0.998406	0.00626384	0.993952
PAH9+H	0.000308664	0.998714	0.00117118	0.995123
PAH7+H	0.000272631	0.998987	0.00103446	0.996157
Ph+MeAc	0.000228419	0.999215	0.000866703	0.997024
rad30	0.000217655	0.999433	0.000825859	0.997850
rad38	0.000125530	0.999558	0.000476305	0.998326
rad19anti	0.000116511	0.999675	0.000442085	0.998768
PAH3+H	6.69984e-05	0.999742	0.000254215	0.999023
PhCCCH3+H	6.53802e-05	0.999807	0.000248076	0.999271
rad35	6.07400e-05	0.999868	0.000230469	0.999501
rad39	5.49308e-05	0.999923	0.000208427	0.999710
rad46	2.97189e-05	0.999953	0.000112764	0.999822
rad60syn	1.03332e-05	0.999963	3.92077e-05	0.999862
rad50	9.93255e-06	0.999973	3.76876e-05	0.999899
rad59	7.71557e-06	0.999981	2.92756e-05	0.999929
rad60anti	6.13929e-06	0.999987	2.32946e-05	0.999952
rad19syn	4.26611e-06	0.999991	1.61871e-05	0.999968
rad67	1.57760e-06	0.999993	5.98597e-06	0.999974
rad54	1.46999e-06	0.999994	5.57766e-06	0.999980
rad51	1.43459e-06	0.999996	5.44334e-06	0.999985
PhcycC3H3_A+H	1.26044e-06	0.999997	4.78255e-06	0.999990
rad37	6.13246e-07	0.999997	2.32687e-06	0.999992
rad52	6.09498e-07	0.999998	2.31265e-06	0.999994
PAH10+CH3	3.40083e-07	0.999998	1.29040e-06	0.999996
rad58	3.07503e-07	0.999999	1.16678e-06	0.999997
rad70	2.75600e-07	0.999999	1.04572e-06	0.999998
PAH1+H	2.72550e-07	0.999999	1.03415e-06	0.999999
rad55	8.21117e-08	0.999999	3.11561e-07	0.999999
rad34	4.89126e-08	0.999999	1.85592e-07	0.999999
rad6	4.65731e-08	0.999999	1.76715e-07	1.000000
rad65	4.41644e-08	0.999999	1.67575e-07	1.000000
rad62	2.07593e-08	1.000000	7.87679e-08	1.000000
rad53	8.12270e-09	1.000000	3.08204e-08	1.000000
rad73	6.63057e-09	1.000000	2.51587e-08	1.000000
rad71	5.84220e-09	1.000000	2.21674e-08	1.000000
rad56	5.07506e-09	1.000000	1.92566e-08	1.000000
rad23	3.16905e-09	1.000000	1.20245e-08	1.000000
rad43	3.05596e-09	1.000000	1.15954e-08	1.000000
rad64	2.94797e-09	1.000000	1.11856e-08	1.000000
PAH8+H	1.55769e-09	1.000000	5.91041e-09	1.000000
rad68syn	1.15824e-09	1.000000	4.39476e-09	1.000000
rad45	9.50167e-10	1.000000	3.60527e-09	1.000000
rad68anti	7.65298e-10	1.000000	2.90381e-09	1.000000
rad42	6.99021e-10	1.000000	2.65233e-09	1.000000
rad11	4.49444e-10	1.000000	1.70535e-09	1.000000
rad7	4.32235e-10	1.000000	1.64005e-09	1.000000
rad40syn	2.60586e-10	1.000000	9.88756e-10	1.000000
rad20	1.95016e-10	1.000000	7.39960e-10	1.000000
rad61	1.94768e-10	1.000000	7.39019e-10	1.000000
rad9	1.37680e-10	1.000000	5.22408e-10	1.000000
rad40anti	1.33999e-10	1.000000	5.08440e-10	1.000000
rad21	1.13747e-10	1.000000	4.31596e-10	1.000000
rad36	9.03493e-11	1.000000	3.42817e-10	1.000000

rad41	7.69081e-11	1.000000	2.91816e-10	1.00000
rad72	7.39030e-11	1.000000	2.80414e-10	1.00000
rad28	6.73667e-11	1.000000	2.55613e-10	1.00000
rad18	5.86614e-11	1.000000	2.22582e-10	1.00000
rad13	4.56737e-11	1.000000	1.73302e-10	1.00000
rad2	2.16118e-11	1.000000	8.20028e-11	1.00000
rad10	1.80532e-11	1.000000	6.85003e-11	1.00000
rad22	1.37728e-11	1.000000	5.22589e-11	1.00000
rad26	1.08183e-11	1.000000	4.10486e-11	1.00000
rad1	4.88449e-12	1.000000	1.85335e-11	1.00000
rad24	1.80067e-12	1.000000	6.83237e-12	1.00000
rad3	9.27021e-13	1.000000	3.51744e-12	1.00000
rad33	8.80709e-13	1.000000	3.34172e-12	1.00000
rad4	7.22958e-13	1.000000	2.74316e-12	1.00000
rad15	6.83799e-13	1.000000	2.59457e-12	1.00000
rad12	1.93291e-13	1.000000	7.33414e-13	1.00000
rad25	1.92168e-13	1.000000	7.29155e-13	1.00000
rad8	2.79513e-14	1.000000	1.06057e-13	1.00000
rad14	1.42436e-14	1.000000	5.40452e-14	1.00000
rad27	5.48378e-15	1.000000	2.08074e-14	1.00000
rad31	2.56260e-16	1.000000	9.72339e-16	1.00000
rad47	1.04040e-16	1.000000	3.94765e-16	1.00000
rad5	2.46660e-17	1.000000	9.35916e-17	1.00000

0.1000000000E-01 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.51560e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.774067	0.774067	0.00000	0.00000
Indene+H	0.205065	0.979132	0.907636	0.907636
Ph+Allene	0.00752038	0.986652	0.0332859	0.940922
PhCH2CCH+H	0.00646724	0.993120	0.0286246	0.969546
PhCHCCH2+H	0.00361205	0.996732	0.0159873	0.985534
PhCCH+CH3	0.00141397	0.998146	0.00625834	0.991792
PAH9+H	0.000393095	0.998539	0.00173987	0.993532
PAH7+H	0.000286547	0.998825	0.00126828	0.994800
rad30	0.000246477	0.999072	0.00109093	0.995891
Ph+MeAc	0.000203625	0.999275	0.000901264	0.996792
rad19anti	0.000164236	0.999440	0.000726924	0.997519
rad38	0.000162729	0.999602	0.000720253	0.998240
PAH3+H	0.000104219	0.999707	0.000461281	0.998701
rad35	7.62567e-05	0.999783	0.000337519	0.999038
rad39	5.58559e-05	0.999839	0.000247223	0.999286
PhCCCH3+H	4.89496e-05	0.999888	0.000216656	0.999502
rad46	4.15219e-05	0.999929	0.000183780	0.999686
rad50	1.70756e-05	0.999946	7.55782e-05	0.999762
rad60syn	1.12961e-05	0.999960	6.14410e-05	0.999823
rad59	1.15663e-05	0.999972	5.11935e-05	0.999874
rad60anti	8.33859e-06	0.999980	3.69074e-05	0.999911
rad19syn	5.68958e-06	0.999986	2.51826e-05	0.999936
rad67	3.01384e-06	0.999989	1.33395e-05	0.999950
rad51	2.86550e-06	0.999992	1.26830e-05	0.999962
rad54	2.03371e-06	0.999994	9.00138e-06	0.999971
PhcycC3H3_A+H	1.94412e-06	0.999996	8.60484e-06	0.999980
rad52	1.12962e-06	0.999997	4.99978e-06	0.999985
rad37	8.38283e-07	0.999998	3.71032e-06	0.999989
PAH10+CH3	6.63385e-07	0.999998	2.93620e-06	0.999992
rad58	5.75067e-07	0.999999	2.54530e-06	0.999994
PAH1+H	4.44633e-07	0.999999	1.96799e-06	0.999996
rad70	4.35874e-07	1.000000	1.92922e-06	0.999998
rad55	1.20222e-07	1.000000	5.32115e-07	0.999999
rad65	8.71020e-08	1.000000	3.85522e-07	0.999999
rad34	8.35878e-08	1.000000	3.69967e-07	0.999999
rad6	2.99850e-08	1.000000	1.32717e-07	1.000000
rad62	2.65881e-08	1.000000	1.17681e-07	1.000000
rad73	1.91052e-08	1.000000	8.45612e-08	1.000000
rad71	1.86214e-08	1.000000	8.24201e-08	1.000000
rad53	1.46410e-08	1.000000	6.48022e-08	1.000000
rad56	1.02046e-08	1.000000	4.51667e-08	1.000000
rad64	5.41567e-09	1.000000	2.39703e-08	1.000000
PAH8+H	4.18068e-09	1.000000	1.85041e-08	1.000000
rad43	3.92952e-09	1.000000	1.73924e-08	1.000000
rad68syn	2.56013e-09	1.000000	1.13314e-08	1.000000
rad23	1.86568e-09	1.000000	8.25769e-09	1.000000
rad68anti	1.68588e-09	1.000000	7.46187e-09	1.000000
rad42	1.06260e-09	1.000000	4.70318e-09	1.000000

rad40syn	6.46771e-10	1.00000	2.86267e-09	1.00000
rad45	5.35669e-10	1.00000	2.37092e-09	1.00000
rad61	5.26881e-10	1.00000	2.33202e-09	1.00000
rad40anti	3.43896e-10	1.00000	1.52212e-09	1.00000
rad72	2.96762e-10	1.00000	1.31350e-09	1.00000
rad7	2.73614e-10	1.00000	1.21104e-09	1.00000
rad11	2.66057e-10	1.00000	1.17759e-09	1.00000
rad41	1.35348e-10	1.00000	5.99062e-10	1.00000
rad20	1.23081e-10	1.00000	5.44766e-10	1.00000
rad9	1.06403e-10	1.00000	4.70950e-10	1.00000
rad21	7.10993e-11	1.00000	3.14692e-10	1.00000
rad36	5.15867e-11	1.00000	2.28328e-10	1.00000
rad28	4.72865e-11	1.00000	2.09295e-10	1.00000
rad18	4.06413e-11	1.00000	1.79882e-10	1.00000
rad22	2.91960e-11	1.00000	1.29224e-10	1.00000
rad13	2.41785e-11	1.00000	1.07016e-10	1.00000
rad2	7.12999e-12	1.00000	3.15580e-11	1.00000
rad10	6.89812e-12	1.00000	3.05317e-11	1.00000
rad26	5.44244e-12	1.00000	2.40887e-11	1.00000
rad1	1.63557e-12	1.00000	7.23918e-12	1.00000
rad24	1.34246e-12	1.00000	5.94185e-12	1.00000
rad15	1.18461e-12	1.00000	5.24318e-12	1.00000
rad33	5.25324e-13	1.00000	2.32513e-12	1.00000
rad3	3.88655e-13	1.00000	1.72022e-12	1.00000
rad4	3.05626e-13	1.00000	1.35273e-12	1.00000
rad12	1.99727e-13	1.00000	8.84012e-13	1.00000
rad25	1.32651e-13	1.00000	5.87125e-13	1.00000
rad8	3.57804e-14	1.00000	1.58367e-13	1.00000
rad14	7.61348e-15	1.00000	3.36980e-14	1.00000
rad27	2.32595e-15	1.00000	1.02949e-14	1.00000
rad47	2.08557e-16	1.00000	9.23091e-16	1.00000
rad31	1.60855e-16	1.00000	7.11960e-16	1.00000
rad5	4.80771e-17	1.00000	2.12794e-16	1.00000

0.100000000E-01 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	1.49145e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837640	0.837640	0.00000	0.00000
Indene+H	0.133064	0.970704	0.819559	0.819559
PhCH2CCH+H	0.0118056	0.982510	0.0727127	0.892272
Ph+Allene	0.00950092	0.992011	0.0585176	0.950789
PhCHCCH2+H	0.00446803	0.996479	0.0275192	0.978309
PhCCH+CH3	0.000861595	0.997340	0.00530669	0.983615
PAH9+H	0.000556653	0.997897	0.00342851	0.987044
rad30	0.000325000	0.998222	0.00200172	0.989045
rad19anti	0.000321503	0.998543	0.00198018	0.991026
rad38	0.000287110	0.998830	0.00176835	0.992794
PAH7+H	0.000286344	0.999117	0.00176364	0.994558
PAH3+H	0.000275296	0.999392	0.00169559	0.996253
Ph+MeAc	0.000167695	0.999560	0.00103286	0.997286
rad35	0.000110067	0.999670	0.000677916	0.997964
rad46	7.52924e-05	0.999745	0.000463737	0.998428
rad39	5.82435e-05	0.999803	0.000358730	0.998786
rad50	4.36593e-05	0.999847	0.000268904	0.999055
PhCCCH3+H	3.20468e-05	0.999879	0.000197381	0.999253
rad59	2.75338e-05	0.999907	0.000169584	0.999422
rad60syn	2.64498e-05	0.999933	0.000162908	0.999585
rad60anti	1.77452e-05	0.999951	0.000109295	0.999694
rad51	1.06314e-05	0.999961	6.54802e-05	0.999760
rad67	1.00266e-05	0.999971	6.17555e-05	0.999822
rad19syn	8.12823e-06	0.999980	5.00630e-05	0.999872
PhcycC3H3_A+H	4.32974e-06	0.999984	2.66675e-05	0.999898
rad52	3.62601e-06	0.999988	2.23331e-05	0.999921
rad54	3.10470e-06	0.999991	1.91223e-05	0.999940
PAH10+CH3	2.60310e-06	0.999993	1.60329e-05	0.999956
rad58	2.01823e-06	0.999995	1.24306e-05	0.999968
rad37	1.70773e-06	0.999997	1.05181e-05	0.999979
PAH1+H	1.10642e-06	0.999998	6.81459e-06	0.999986
rad70	1.04847e-06	0.999999	6.45770e-06	0.999992
rad65	3.08364e-07	0.999999	1.89926e-06	0.999994
rad34	2.42005e-07	1.000000	1.49055e-06	0.999996
rad55	2.29002e-07	1.000000	1.41046e-06	0.999997
rad71	1.91562e-07	1.00000	1.17986e-06	0.999998
rad73	1.56634e-07	1.00000	9.64732e-07	0.999999
rad53	4.44404e-08	1.00000	2.73715e-07	0.999999

rad62	4.00920e-08	1.00000	2.46932e-07	1.000000
rad56	3.57962e-08	1.00000	2.20474e-07	1.000000
PAH8+H	2.44074e-08	1.00000	1.50329e-07	1.000000
rad64	1.92962e-08	1.00000	1.18848e-07	1.000000
rad68syn	1.20135e-08	1.00000	7.39930e-08	1.000000
rad6	9.31886e-09	1.00000	5.73962e-08	1.000000
rad43	8.60722e-09	1.00000	5.30131e-08	1.000000
rad68anti	7.79132e-09	1.00000	4.79879e-08	1.000000
rad72	5.51379e-09	1.00000	3.39602e-08	1.000000
rad40syn	3.52239e-09	1.00000	2.16950e-08	1.000000
rad61	3.50383e-09	1.00000	2.15806e-08	1.000000
rad42	2.39336e-09	1.00000	1.47411e-08	1.000000
rad40anti	2.09847e-09	1.00000	1.29248e-08	1.000000
rad41	5.64347e-10	1.00000	3.47589e-09	1.000000
rad23	4.82186e-10	1.00000	2.96986e-09	1.000000
rad22	5.86366e-11	1.00000	3.61152e-10	1.000000
rad45	5.03712e-11	1.00000	3.10244e-10	1.000000
rad7	2.72780e-11	1.00000	1.68009e-10	1.000000
rad11	2.50247e-11	1.00000	1.54131e-10	1.000000
rad28	1.98416e-11	1.00000	1.22208e-10	1.000000
rad9	1.35741e-11	1.00000	8.36047e-11	1.000000
rad20	1.26286e-11	1.00000	7.77813e-11	1.000000
rad36	8.54405e-12	1.00000	5.26240e-11	1.000000
rad21	6.65192e-12	1.00000	4.09702e-11	1.000000
rad18	5.81110e-12	1.00000	3.57914e-11	1.000000
rad13	1.40546e-12	1.00000	8.65641e-12	1.000000
rad15	6.75051e-13	1.00000	4.15774e-12	1.000000
rad26	5.48930e-13	1.00000	3.38094e-12	1.000000
rad10	2.62616e-13	1.00000	1.61749e-12	1.000000
rad24	1.70134e-13	1.00000	1.04788e-12	1.000000
rad2	1.23142e-13	1.00000	7.58447e-13	1.000000
rad12	4.26946e-14	1.00000	2.62962e-13	1.000000
rad33	3.32958e-14	1.00000	2.05073e-13	1.000000
rad1	3.02530e-14	1.00000	1.86333e-13	1.000000
rad8	1.74118e-14	1.00000	1.07242e-13	1.000000
rad25	1.29131e-14	1.00000	7.95335e-14	1.000000
rad3	8.57173e-15	1.00000	5.27945e-14	1.000000
rad4	5.43473e-15	1.00000	3.34733e-14	1.000000
rad14	5.21817e-16	1.00000	3.21395e-15	1.000000
rad47	2.44698e-16	1.00000	1.50713e-15	1.000000
rad5	1.34531e-16	1.00000	8.28593e-16	1.000000
rad27	9.09535e-17	1.00000	5.60196e-16	1.000000

0.100000000E-01 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.47588e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866428	0.866428	0.00000	0.00000
Indene+H	0.0943885	0.960816	0.706650	0.706650
PhCH2CCH+H	0.0189358	0.979752	0.141765	0.848415
Ph+Allene	0.0101088	0.989861	0.0756808	0.924096
PhCHCCH2+H	0.00579099	0.995652	0.0433549	0.967451
PAH9+H	0.000765251	0.996417	0.00572914	0.973180
PhCCH+CH3	0.000550353	0.996968	0.00412028	0.977300
PAH3+H	0.000526246	0.997494	0.00393980	0.981240
rad19anti	0.000486607	0.997981	0.00364303	0.984883
rad38	0.000411538	0.998392	0.00308103	0.987964
rad30	0.000378289	0.998770	0.00283210	0.990796
PAH7+H	0.000350388	0.999121	0.00262322	0.993419
Ph+MeAc	0.000164748	0.999286	0.00123340	0.994653
rad35	0.000155515	0.999441	0.00116428	0.995817
rad46	0.000120110	0.999561	0.000899213	0.996716
rad50	9.58275e-05	0.999657	0.000717423	0.997434
rad39	7.87042e-05	0.999736	0.000589228	0.998023
rad59	4.92026e-05	0.999785	0.000368361	0.998391
rad60syn	4.01110e-05	0.999825	0.000300295	0.998692
PhCCCH3+H	3.61305e-05	0.999861	0.000270495	0.998962
rad51	2.92775e-05	0.999890	0.000219190	0.999181
rad60anti	2.75040e-05	0.999918	0.000205912	0.999387
rad67	2.43946e-05	0.999942	0.000182633	0.999570
rad19syn	1.17085e-05	0.999954	8.76569e-05	0.999657
rad52	8.84592e-06	0.999963	6.62259e-05	0.999724
PAH10+CH3	7.72772e-06	0.999971	5.78544e-05	0.999781
PhcycC3H3_A+H	7.44563e-06	0.999978	5.57425e-05	0.999837
rad58	5.03691e-06	0.999983	3.77093e-05	0.999875
rad54	4.34711e-06	0.999987	3.25451e-05	0.999907

rad37	3.43690e-06	0.999991	2.57307e-05	0.999933
PAH1+H	2.74926e-06	0.999994	2.05827e-05	0.999954
rad70	2.09354e-06	0.999996	1.56735e-05	0.999969
rad71	1.06989e-06	0.999997	8.00985e-06	0.999977
rad65	8.19695e-07	0.999998	6.13673e-06	0.999984
rad73	7.43997e-07	0.999998	5.57002e-06	0.999989
rad34	5.52322e-07	0.999999	4.13502e-06	0.999993
rad55	3.53325e-07	0.999999	2.64521e-06	0.999996
PAH8+H	1.14514e-07	0.999999	8.57325e-07	0.999997
rad53	9.72453e-08	0.999999	7.28037e-07	0.999998
rad56	9.21239e-08	1.000000	6.89696e-07	0.999998
rad62	6.00491e-08	1.000000	4.49564e-07	0.999999
rad64	5.57960e-08	1.000000	4.17723e-07	0.999999
rad72	4.30295e-08	1.000000	3.22145e-07	0.999999
rad68syn	4.11176e-08	1.000000	3.07831e-07	1.000000
rad68anti	2.65283e-08	1.000000	1.98607e-07	1.000000
rad43	2.20258e-08	1.000000	1.64898e-07	1.000000
rad61	1.54176e-08	1.000000	1.15426e-07	1.000000
rad40syn	1.44059e-08	1.000000	1.07851e-07	1.000000
rad40anti	9.08247e-09	1.000000	6.79969e-08	1.000000
rad42	4.93507e-09	1.000000	3.69470e-08	1.000000
rad41	1.99345e-09	1.000000	1.49242e-08	1.000000
rad6	1.04689e-09	1.000000	7.83768e-09	1.000000
rad23	2.04025e-10	1.000000	1.52746e-09	1.000000
rad45	1.67423e-11	1.000000	1.25343e-10	1.000000
rad22	1.55655e-11	1.000000	1.16533e-10	1.000000
rad9	6.90137e-12	1.000000	5.16678e-11	1.000000
rad11	5.38042e-12	1.000000	4.02811e-11	1.000000
rad20	5.29561e-12	1.000000	3.96462e-11	1.000000
rad7	4.22912e-12	1.000000	3.16618e-11	1.000000
rad28	3.45708e-12	1.000000	2.58818e-11	1.000000
rad36	2.92102e-12	1.000000	2.18685e-11	1.000000
rad21	2.72292e-12	1.000000	2.03854e-11	1.000000
rad18	1.62515e-12	1.000000	1.21669e-11	1.000000
rad15	3.63400e-13	1.000000	2.72063e-12	1.000000
rad13	3.15165e-13	1.000000	2.35952e-12	1.000000
rad24	9.49359e-14	1.000000	7.10748e-13	1.000000
rad26	6.82743e-14	1.000000	5.11143e-13	1.000000
rad12	3.72964e-14	1.000000	2.79223e-13	1.000000
rad10	2.51584e-14	1.000000	1.88351e-13	1.000000
rad8	2.00223e-14	1.000000	1.49899e-13	1.000000
rad2	1.11274e-14	1.000000	8.33066e-14	1.000000
rad33	1.02787e-14	1.000000	7.69527e-14	1.000000
rad25	5.51562e-15	1.000000	4.12933e-14	1.000000
rad1	2.88805e-15	1.000000	2.16217e-14	1.000000
rad3	1.47245e-15	1.000000	1.10237e-14	1.000000
rad4	9.40456e-16	1.000000	7.04083e-15	1.000000
rad47	6.72678e-16	1.000000	5.03608e-15	1.000000
rad5	1.91709e-16	1.000000	1.43525e-15	1.000000
rad14	1.43939e-16	1.000000	1.07761e-15	1.000000
rad27	2.37090e-17	1.000000	1.77500e-16	1.000000

0.100000000E-01 Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	4.00875e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.878204	0.878204	0.00000	0.00000
Indene+H	0.0703003	0.948504	0.577195	0.577195
PhCH2CCH+H	0.0277459	0.976250	0.227806	0.805001
Ph+Allene	0.0105974	0.986848	0.0870088	0.892010
PhCHCCH2+H	0.00765656	0.994504	0.0628636	0.954873
PAH9+H	0.000941856	0.995446	0.00773304	0.962606
PAH3+H	0.000857236	0.996303	0.00703827	0.969645
rad19anti	0.000629228	0.996932	0.00516623	0.974811
rad38	0.000525523	0.997458	0.00431476	0.979126
PAH7+H	0.000454502	0.997913	0.00373165	0.982857
rad30	0.000417263	0.998330	0.00342591	0.986283
PhCCH+CH3	0.000383697	0.998713	0.00315031	0.989434
rad35	0.000200865	0.998914	0.00164918	0.991083
Ph+MeAc	0.000197882	0.999112	0.00162470	0.992707
rad50	0.000170940	0.999283	0.00140349	0.994111
rad46	0.000166540	0.999450	0.00136737	0.995478
rad39	0.000118806	0.999568	0.000975446	0.996454
rad59	7.57691e-05	0.999644	0.000622096	0.997076
rad51	6.22687e-05	0.999707	0.000511252	0.997587
rad60syn	5.44510e-05	0.999761	0.000447066	0.998034

PhCCCH3+H	5.15901e-05	0.999813	0.000423577	0.998458
rad67	4.61782e-05	0.999859	0.000379142	0.998837
rad60anti	3.79865e-05	0.999897	0.000311885	0.999149
PAH10+CH3	1.71933e-05	0.999914	0.000141164	0.999290
rad52	1.70844e-05	0.999931	0.000140270	0.999430
rad19syn	1.63932e-05	0.999947	0.000134595	0.999565
PhcycC3H3_A+H	1.10275e-05	0.999958	9.05408e-05	0.999655
rad58	1.00660e-05	0.999969	8.26458e-05	0.999738
PAH1+H	5.96729e-06	0.999974	4.89940e-05	0.999787
rad37	5.72356e-06	0.999980	4.69928e-05	0.999834
rad54	5.39698e-06	0.999986	4.43115e-05	0.999878
rad71	3.95703e-06	0.999990	3.24889e-05	0.999911
rad70	3.69403e-06	0.999993	3.03296e-05	0.999941
rad73	2.41463e-06	0.999996	1.98251e-05	0.999961
rad65	1.68526e-06	0.999997	1.38367e-05	0.999975
rad34	1.08371e-06	0.999998	8.89771e-06	0.999984
rad55	4.74067e-07	0.999999	3.89229e-06	0.999988
PAH8+H	3.91948e-07	0.999999	3.21806e-06	0.999991
rad72	2.09339e-07	1.000000	1.71876e-06	0.999992
rad56	1.86169e-07	1.000000	1.52853e-06	0.999994
rad53	1.73183e-07	1.000000	1.42191e-06	0.999995
rad64	1.33616e-07	1.000000	1.09704e-06	0.999997
rad68syn	1.10265e-07	1.000000	9.05324e-07	0.999997
rad62	9.48261e-08	1.000000	7.78563e-07	0.999998
rad68anti	7.08808e-08	1.000000	5.81961e-07	0.999999
rad43	4.82400e-08	1.000000	3.96071e-07	0.999999
rad61	4.62525e-08	1.000000	3.79753e-07	1.000000
rad40syn	4.43239e-08	1.000000	3.63918e-07	1.000000
rad40anti	2.91752e-08	1.000000	2.39541e-07	1.000000
rad42	1.00367e-08	1.000000	8.24060e-08	1.000000
rad41	5.35211e-09	1.000000	4.39431e-08	1.000000
rad6	1.28722e-10	1.000000	1.05686e-09	1.000000
rad23	5.24514e-11	1.000000	4.30648e-10	1.000000
rad45	6.46902e-12	1.000000	5.31134e-11	1.000000
rad22	4.00327e-12	1.000000	3.28685e-11	1.000000
rad9	3.58313e-12	1.000000	2.94190e-11	1.000000
rad20	2.60561e-12	1.000000	2.13932e-11	1.000000
rad11	1.63019e-12	1.000000	1.33845e-11	1.000000
rad21	1.30014e-12	1.000000	1.06747e-11	1.000000
rad36	1.15546e-12	1.000000	9.48686e-12	1.000000
rad7	9.45877e-13	1.000000	7.76605e-12	1.000000
rad18	6.17465e-13	1.000000	5.06965e-12	1.000000
rad28	5.18792e-13	1.000000	4.25950e-12	1.000000
rad15	2.11299e-13	1.000000	1.73485e-12	1.000000
rad13	8.56690e-14	1.000000	7.03379e-13	1.000000
rad24	5.70002e-14	1.000000	4.67996e-13	1.000000
rad12	3.05352e-14	1.000000	2.50707e-13	1.000000
rad26	2.29083e-14	1.000000	1.88087e-13	1.000000
rad8	2.16858e-14	1.000000	1.78050e-13	1.000000
rad10	7.32331e-15	1.000000	6.01275e-14	1.000000
rad33	3.63731e-15	1.000000	2.98638e-14	1.000000
rad25	2.84539e-15	1.000000	2.33618e-14	1.000000
rad2	1.63857e-15	1.000000	1.34533e-14	1.000000
rad47	1.41374e-15	1.000000	1.16074e-14	1.000000
rad1	4.66873e-16	1.000000	3.83322e-15	1.000000
rad3	3.19900e-16	1.000000	2.62651e-15	1.000000
rad5	2.11201e-16	1.000000	1.73405e-15	1.000000
rad4	2.03685e-16	1.000000	1.67234e-15	1.000000
rad14	5.33346e-17	1.000000	4.37900e-16	1.000000
rad27	1.32575e-17	1.000000	1.08850e-16	1.000000

0.100000000E-01 Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.32896e-13 (1.00)	6.40311e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.879843	0.879843	0.00000	0.00000
Indene+H	0.0541638	0.934007	0.450777	0.450777
PhCH2CCH+H	0.0379681	0.971975	0.315989	0.766766
Ph+Allene	0.0112444	0.983219	0.0935810	0.860347
PhCHCCH2+H	0.00999485	0.993214	0.0831818	0.943529
PAH3+H	0.00124356	0.994458	0.0103495	0.953878
PAH9+H	0.00106545	0.995523	0.00886715	0.962745
rad19anti	0.000731028	0.996254	0.00608396	0.968829
rad38	0.000614393	0.996869	0.00511327	0.973943
PAH7+H	0.000586817	0.997455	0.00488376	0.978826
rad30	0.000442203	0.997898	0.00368022	0.982507

PhCCH+CH3	0.000309130	0.998207	0.00257273	0.985079
rad50	0.000261677	0.998468	0.00217780	0.987257
Ph+MeAc	0.000256973	0.998725	0.00213865	0.989396
rad35	0.000242192	0.998968	0.00201564	0.991411
rad46	0.000207878	0.999175	0.00173006	0.993142
rad39	0.000175772	0.999351	0.00146285	0.994604
rad51	0.000109649	0.999461	0.000912548	0.995517
rad59	0.000104825	0.999566	0.000872406	0.996389
rad67	7.34547e-05	0.999639	0.000611325	0.997001
PhCCCH3+H	7.22810e-05	0.999711	0.000601557	0.997602
rad60syn	6.81857e-05	0.999780	0.000567474	0.998170
rad60anti	4.82378e-05	0.999828	0.000401457	0.998571
PAH10+CH3	3.08998e-05	0.999859	0.000257163	0.998828
rad52	2.78077e-05	0.999887	0.000231429	0.999060
rad19syn	2.34810e-05	0.999910	0.000195420	0.999255
rad58	1.71635e-05	0.999927	0.000142842	0.999398
PhcycC3H3_A+H	1.49440e-05	0.999942	0.000124371	0.999522
PAH1+H	1.13017e-05	0.999953	9.40581e-05	0.999616
rad71	1.08629e-05	0.999964	9.04058e-05	0.999707
rad37	8.12868e-06	0.999972	6.76507e-05	0.999774
rad54	6.28002e-06	0.999979	5.22652e-05	0.999827
rad70	5.97099e-06	0.999985	4.96933e-05	0.999876
rad73	5.95728e-06	0.999991	4.95793e-05	0.999926
rad65	2.87595e-06	0.999994	2.39350e-05	0.999950
rad34	1.90624e-06	0.999995	1.58647e-05	0.999966
PAH8+H	1.06524e-06	0.999997	8.86540e-06	0.999975
rad72	7.14913e-07	0.999997	5.94984e-06	0.999981
rad55	5.87553e-07	0.999998	4.88989e-06	0.999986
rad56	3.21872e-07	0.999998	2.67877e-06	0.999988
rad64	2.70856e-07	0.999998	2.25419e-06	0.999990
rad53	2.70820e-07	0.999999	2.25389e-06	0.999993
rad68syn	2.47504e-07	0.999999	2.05985e-06	0.999995
rad68anti	1.58683e-07	0.999999	1.32064e-06	0.999996
rad62	1.55148e-07	0.999999	1.29122e-06	0.999997
rad40syn	1.10734e-07	0.999999	9.21580e-07	0.999998
rad61	1.05680e-07	0.999999	8.79519e-07	0.999999
rad43	8.79692e-08	1.000000	7.32121e-07	1.000000
rad40anti	7.53436e-08	1.000000	6.27045e-07	1.000000
rad42	1.97239e-08	1.000000	1.64152e-07	1.000000
rad41	1.13877e-08	1.000000	9.47735e-08	1.000000
rad6	2.31776e-11	1.000000	1.92895e-10	1.000000
rad23	1.58922e-11	1.000000	1.32263e-10	1.000000
rad45	2.81255e-12	1.000000	2.34073e-11	1.000000
rad9	1.90507e-12	1.000000	1.58549e-11	1.000000
rad20	1.43942e-12	1.000000	1.19795e-11	1.000000
rad22	1.36326e-12	1.000000	1.13457e-11	1.000000
rad21	6.94982e-13	1.000000	5.78397e-12	1.000000
rad11	6.26319e-13	1.000000	5.21252e-12	1.000000
rad36	5.12178e-13	1.000000	4.26259e-12	1.000000
rad18	2.77753e-13	1.000000	2.31159e-12	1.000000
rad7	2.65000e-13	1.000000	2.20545e-12	1.000000
rad15	1.25587e-13	1.000000	1.04519e-12	1.000000
rad28	1.22527e-13	1.000000	1.01973e-12	1.000000
rad24	3.60418e-14	1.000000	2.99957e-13	1.000000
rad13	2.74577e-14	1.000000	2.28516e-13	1.000000
rad12	2.40047e-14	1.000000	1.99778e-13	1.000000
rad8	2.25267e-14	1.000000	1.87478e-13	1.000000
rad26	1.26336e-14	1.000000	1.05143e-13	1.000000
rad10	4.05981e-15	1.000000	3.37877e-14	1.000000
rad47	2.44566e-15	1.000000	2.03540e-14	1.000000
rad25	1.71222e-15	1.000000	1.42499e-14	1.000000
rad33	1.46761e-15	1.000000	1.22142e-14	1.000000
rad2	4.90080e-16	1.000000	4.07868e-15	1.000000
rad5	2.18454e-16	1.000000	1.81808e-15	1.000000
rad1	1.61590e-16	1.000000	1.34483e-15	1.000000
rad3	8.73433e-17	1.000000	7.26912e-16	1.000000
rad4	5.47929e-17	1.000000	4.56012e-16	1.000000
rad14	2.68076e-17	1.000000	2.23105e-16	1.000000
rad27	1.07395e-17	1.000000	8.93791e-17	1.000000

0.100000000E-01 Pa, 2750.00000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	8.05113e-13 (1.00)	1.00487e-13 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.875189	0.875189	0.00000	0.00000
PhCH2CCH+H	0.0492371	0.924426	0.394492	0.394492

Indene+H	0.0427171	0.967143	0.342254	0.736746
PhCHCCH2+H	0.0126523	0.979795	0.101371	0.838117
Ph+Allene	0.0121360	0.991931	0.0972347	0.935352
PAH3+H	0.00165412	0.993586	0.0132530	0.948605
PAH9+H	0.00112924	0.994715	0.00904761	0.957652
rad19anti	0.000790044	0.995505	0.00632991	0.963982
PAH7+H	0.000729333	0.996234	0.00584349	0.969826
rad38	0.000670521	0.996905	0.00537228	0.975198
rad30	0.000454283	0.997359	0.00363976	0.978838
rad50	0.000356822	0.997716	0.00285889	0.981697
Ph+MeAc	0.000331297	0.998047	0.00265438	0.984351
PhCCH+CH3	0.000293338	0.998340	0.00235025	0.986701
rad35	0.000276886	0.998617	0.00221844	0.988920
rad39	0.000242690	0.998860	0.00194445	0.990864
rad46	0.000239377	0.999099	0.00191791	0.992782
rad51	0.000167553	0.999267	0.00134245	0.994125
rad59	0.000133898	0.999401	0.00107280	0.995197
rad67	0.000103303	0.999504	0.000827674	0.996025
PhCCCH3+H	9.47597e-05	0.999599	0.000759224	0.996784
rad60syn	8.03400e-05	0.999679	0.000643692	0.997428
rad60anti	5.74980e-05	0.999737	0.000460680	0.997889
PAH10+CH3	4.75540e-05	0.999784	0.000381007	0.998270
rad52	3.97965e-05	0.999824	0.000318854	0.998588
rad19syn	3.43481e-05	0.999859	0.000275200	0.998864
rad58	2.60271e-05	0.999885	0.000208532	0.999072
rad71	2.39121e-05	0.999908	0.000191586	0.999264
PhcycC3H3_A+H	1.91124e-05	0.999928	0.000153131	0.999417
PAH1+H	1.89313e-05	0.999946	0.000151679	0.999569
rad73	1.19964e-05	0.999958	9.61160e-05	0.999665
rad37	1.02458e-05	0.999969	8.20902e-05	0.999747
rad70	8.97456e-06	0.999978	7.19051e-05	0.999819
rad54	7.04852e-06	0.999985	5.64734e-05	0.999875
rad65	4.27356e-06	0.999989	3.42402e-05	0.999909
rad34	3.06724e-06	0.999992	2.45750e-05	0.999934
PAH8+H	2.42508e-06	0.999995	1.94299e-05	0.999953
rad72	1.88022e-06	0.999996	1.50645e-05	0.999968
rad55	6.94535e-07	0.999997	5.56468e-06	0.999974
rad56	5.00306e-07	0.999998	4.00850e-06	0.999978
rad68syn	4.83458e-07	0.999998	3.87351e-06	0.999982
rad64	4.76899e-07	0.999999	3.82096e-06	0.999986
rad53	3.88200e-07	0.999999	3.11030e-06	0.999989
rad68anti	3.09361e-07	0.999999	2.47863e-06	0.999991
rad62	2.47711e-07	0.999999	1.98468e-06	0.999993
rad40syn	2.35491e-07	1.000000	1.88678e-06	0.999995
rad61	1.98411e-07	1.000000	1.58969e-06	0.999997
rad40anti	1.64464e-07	1.000000	1.31770e-06	0.999998
rad43	1.38326e-07	1.000000	1.10828e-06	0.999999
rad42	3.59374e-08	1.000000	2.87934e-07	1.000000
rad41	2.03340e-08	1.000000	1.62918e-07	1.000000
rad23	5.86817e-12	1.000000	4.70163e-11	1.000000
rad6	5.46012e-12	1.000000	4.37470e-11	1.000000
rad45	1.33862e-12	1.000000	1.07252e-11	1.000000
rad9	1.04159e-12	1.000000	8.34535e-12	1.000000
rad20	8.68795e-13	1.000000	6.96087e-12	1.000000
rad22	5.58311e-13	1.000000	4.47324e-12	1.000000
rad21	4.05059e-13	1.000000	3.24538e-12	1.000000
rad11	2.92171e-13	1.000000	2.34091e-12	1.000000
rad36	2.47651e-13	1.000000	1.98420e-12	1.000000
rad18	1.40105e-13	1.000000	1.12253e-12	1.000000
rad7	8.88371e-14	1.000000	7.11772e-13	1.000000
rad15	7.57336e-14	1.000000	6.06785e-13	1.000000
rad28	4.41229e-14	1.000000	3.53517e-13	1.000000
rad24	2.36701e-14	1.000000	1.89647e-13	1.000000
rad8	2.27048e-14	1.000000	1.81913e-13	1.000000
rad12	1.84640e-14	1.000000	1.47935e-13	1.000000
rad13	1.02999e-14	1.000000	8.25238e-14	1.000000
rad26	7.81775e-15	1.000000	6.26366e-14	1.000000
rad47	3.65965e-15	1.000000	2.93215e-14	1.000000
rad10	2.67317e-15	1.000000	2.14177e-14	1.000000
rad25	1.16293e-15	1.000000	9.31751e-15	1.000000
rad33	6.71475e-16	1.000000	5.37992e-15	1.000000
rad2	2.44667e-16	1.000000	1.96030e-15	1.000000
rad5	2.17323e-16	1.000000	1.74121e-15	1.000000
rad1	9.31273e-17	1.000000	7.46145e-16	1.000000
rad3	2.96330e-17	1.000000	2.37423e-16	1.000000
rad4	1.81318e-17	1.000000	1.45273e-16	1.000000
rad14	1.77556e-17	1.000000	1.42259e-16	1.000000
rad27	9.32059e-18	1.000000	7.46775e-17	1.000000

0.100000000E-01 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15309e-12 (1.00)	1.53862e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866566	0.866566	0.00000	0.00000
PhCH2CCH+H	0.0611725	0.927738	0.458447	0.458447
Indene+H	0.0342672	0.962006	0.256810	0.715257
PhCHCCH2+H	0.0154790	0.977485	0.116005	0.831262
Ph+Allene	0.0132660	0.990751	0.0994201	0.930682
PAH3+H	0.00205938	0.992810	0.0154337	0.946116
PAH9+H	0.00113813	0.993948	0.00852950	0.954645
PAH7+H	0.000866135	0.994814	0.00649110	0.961136
rad19anti	0.000812999	0.995627	0.00609288	0.967229
rad38	0.000693215	0.996321	0.00519518	0.972424
rad30	0.000455427	0.996776	0.00341312	0.975838
rad50	0.000445147	0.997221	0.00333608	0.979174
Ph+MeAc	0.000411378	0.997633	0.00308300	0.982257
PhCCH+CH3	0.000319072	0.997952	0.00239123	0.984648
rad39	0.000311351	0.998263	0.00233337	0.986991
rad35	0.000303822	0.998567	0.00227694	0.989258
rad46	0.000258929	0.998826	0.00194050	0.991199
rad51	0.000229661	0.999055	0.00172116	0.992920
rad59	0.000160966	0.999216	0.00120633	0.994126
rad67	0.000132859	0.999349	0.000995686	0.995122
PhCCCH3+H	0.000117527	0.999467	0.000880786	0.996003
rad60syn	9.03378e-05	0.999557	0.000677021	0.996680
PAH10+CH3	6.53522e-05	0.999622	0.000489771	0.997169
rad60anti	6.52879e-05	0.999688	0.000489289	0.997659
rad52	5.15998e-05	0.999739	0.000386706	0.998045
rad19syn	5.01057e-05	0.999789	0.000375508	0.998421
rad71	4.45158e-05	0.999834	0.000333616	0.998755
rad58	3.61220e-05	0.999870	0.000270710	0.999025
PAH1+H	2.86271e-05	0.999899	0.000214541	0.999240
PhcycC3H3_A+H	2.34369e-05	0.999922	0.000175644	0.999415
rad73	2.07080e-05	0.999943	0.000155192	0.999571
rad70	1.26564e-05	0.999955	9.48509e-05	0.999666
rad37	1.18404e-05	0.999967	8.87361e-05	0.999754
rad54	7.74183e-06	0.999975	5.80198e-05	0.999812
rad65	5.71876e-06	0.999981	4.28583e-05	0.999855
PAH8+H	4.80153e-06	0.999986	3.59842e-05	0.999891
rad34	4.57469e-06	0.999990	3.42843e-05	0.999925
rad72	4.05905e-06	0.999994	3.04198e-05	0.999956
rad68syn	8.44302e-07	0.999995	6.32748e-06	0.999962
rad55	7.96394e-07	0.999996	5.96844e-06	0.999968
rad64	7.49015e-07	0.999997	5.61336e-06	0.999974
rad56	7.20451e-07	0.999997	5.39929e-06	0.999979
rad68anti	5.39463e-07	0.999998	4.04291e-06	0.999983
rad53	5.23143e-07	0.999998	3.92061e-06	0.999987
rad40syn	4.40707e-07	0.999999	3.30280e-06	0.999990
rad62	3.72784e-07	0.999999	2.79376e-06	0.999993
rad61	3.22478e-07	0.999999	2.41676e-06	0.999996
rad40anti	3.14359e-07	1.000000	2.35591e-06	0.999998
rad43	1.94896e-07	1.00000	1.46061e-06	0.999999
rad42	5.98145e-08	1.00000	4.48269e-07	1.000000
rad41	3.19484e-08	1.00000	2.39432e-07	1.00000
rad23	2.45221e-12	1.00000	1.83777e-11	1.00000
rad6	1.58021e-12	1.00000	1.18426e-11	1.00000
rad45	6.82983e-13	1.00000	5.11850e-12	1.00000
rad9	5.87748e-13	1.00000	4.40478e-12	1.00000
rad20	5.61886e-13	1.00000	4.21096e-12	1.00000
rad22	2.58820e-13	1.00000	1.93969e-12	1.00000
rad21	2.52569e-13	1.00000	1.89283e-12	1.00000
rad11	1.59425e-13	1.00000	1.19479e-12	1.00000
rad36	1.27982e-13	1.00000	9.59136e-13	1.00000
rad18	7.69640e-14	1.00000	5.76794e-13	1.00000
rad15	4.65202e-14	1.00000	3.48637e-13	1.00000
rad7	3.49091e-14	1.00000	2.61620e-13	1.00000
rad8	2.23533e-14	1.00000	1.67523e-13	1.00000
rad28	2.07890e-14	1.00000	1.55800e-13	1.00000
rad24	1.60028e-14	1.00000	1.19931e-13	1.00000
rad12	1.40784e-14	1.00000	1.05508e-13	1.00000
rad26	4.97268e-15	1.00000	3.72669e-14	1.00000
rad47	4.90428e-15	1.00000	3.67543e-14	1.00000
rad13	4.47311e-15	1.00000	3.35229e-14	1.00000
rad10	1.81466e-15	1.00000	1.35996e-14	1.00000
rad25	8.60191e-16	1.00000	6.44656e-15	1.00000
rad33	3.44368e-16	1.00000	2.58081e-15	1.00000

rad5	2.10881e-16	1.00000	1.58041e-15	1.00000
rad2	1.48870e-16	1.00000	1.11568e-15	1.00000
rad1	6.42565e-17	1.00000	4.81559e-16	1.00000
rad14	1.40248e-17	1.00000	1.05106e-16	1.00000
rad3	1.22179e-17	1.00000	9.15647e-17	1.00000
rad27	8.01853e-18	1.00000	6.00935e-17	1.00000
rad4	7.25707e-18	1.00000	5.43869e-17	1.00000

0.1000000000E-01 Pa, 3250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.58309e-12 (1.00)	2.28795e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.855476	0.855476	0.00000	0.00000
PhCH2CCH+H	0.0734301	0.928906	0.508082	0.508082
Indene+H	0.0278643	0.956770	0.192800	0.700882
PhCHCCH2+H	0.0183610	0.975131	0.127045	0.827927
Ph+Allene	0.0145940	0.989725	0.100980	0.928907
PAH3+H	0.00243645	0.992162	0.0168585	0.945765
PAH9+H	0.00110339	0.993265	0.00763468	0.953400
PAH7+H	0.000986571	0.994252	0.00682634	0.960227
rad19anti	0.000808911	0.995061	0.00559707	0.965824
rad38	0.000686670	0.995747	0.00475125	0.970575
rad50	0.000518179	0.996266	0.00358542	0.974160
Ph+MeAc	0.000489465	0.996755	0.00338674	0.977547
rad30	0.000447972	0.997203	0.00309964	0.980647
PhCCH+CH3	0.000378211	0.997581	0.00261694	0.983264
rad39	0.000374434	0.997956	0.00259081	0.985854
rad35	0.000323023	0.998279	0.00223508	0.988089
rad51	0.000289245	0.998568	0.00200136	0.990091
rad46	0.000266714	0.998835	0.00184546	0.991936
rad59	0.000184695	0.999019	0.00127795	0.993214
rad67	0.000159865	0.999179	0.00110614	0.994320
PhCCCH3+H	0.000140367	0.999320	0.000971235	0.995292
rad60syn	9.79791e-05	0.999418	0.000677943	0.995970
PAH10+CH3	8.26142e-05	0.999500	0.000571630	0.996541
rad71	7.28074e-05	0.999573	0.000503773	0.997045
rad60anti	7.14060e-05	0.999644	0.000494077	0.997539
rad19syn	7.13406e-05	0.999716	0.000493624	0.998033
rad52	6.19533e-05	0.999778	0.000428671	0.998461
rad58	4.68388e-05	0.999825	0.000324090	0.998785
PAH1+H	3.98745e-05	0.999864	0.000275902	0.999061
rad73	3.17350e-05	0.999896	0.000219583	0.999281
PhcycC3H3_A+H	2.77967e-05	0.999924	0.000192333	0.999473
rad70	1.68825e-05	0.999941	0.000116814	0.999590
rad37	1.28499e-05	0.999954	8.89115e-05	0.999679
PAH8+H	8.50457e-06	0.999962	5.88453e-05	0.999738
rad54	8.38235e-06	0.999971	5.79997e-05	0.999796
rad72	7.52649e-06	0.999978	5.20777e-05	0.999848
rad65	7.06074e-06	0.999985	4.88551e-05	0.999897
rad34	6.39568e-06	0.999992	4.42534e-05	0.999941
rad68syn	1.34606e-06	0.999993	9.31375e-06	0.999950
rad64	1.07438e-06	0.999994	7.43389e-06	0.999958
rad56	9.79690e-07	0.999995	6.77873e-06	0.999965
rad55	8.93999e-07	0.999996	6.18581e-06	0.999971
rad68anti	8.59058e-07	0.999997	5.94405e-06	0.999977
rad40syn	7.44327e-07	0.999997	5.15020e-06	0.999982
rad53	6.73265e-07	0.999998	4.65850e-06	0.999986
rad40anti	5.40357e-07	0.999999	3.73887e-06	0.999990
rad62	5.25220e-07	0.999999	3.63414e-06	0.999994
rad61	4.70536e-07	1.000000	3.25576e-06	0.999997
rad43	2.53715e-07	1.000000	1.75552e-06	0.999999
rad42	9.14458e-08	1.000000	6.32737e-07	0.999999
rad41	4.57450e-08	1.000000	3.16522e-07	1.000000
rad23	1.11741e-12	1.000000	7.73165e-12	1.000000
rad6	5.46864e-13	1.000000	3.78390e-12	1.000000
rad20	3.83874e-13	1.000000	2.65612e-12	1.000000
rad45	3.67941e-13	1.000000	2.54588e-12	1.000000
rad9	3.42993e-13	1.000000	2.37326e-12	1.000000
rad21	1.66176e-13	1.000000	1.14981e-12	1.000000
rad22	1.31840e-13	1.000000	9.12235e-13	1.000000
rad11	9.81513e-14	1.000000	6.79135e-13	1.000000
rad36	6.96559e-14	1.000000	4.81967e-13	1.000000
rad18	4.51615e-14	1.000000	3.12484e-13	1.000000
rad15	2.92109e-14	1.000000	2.02118e-13	1.000000
rad8	2.15818e-14	1.000000	1.49330e-13	1.000000
rad7	1.57556e-14	1.000000	1.09017e-13	1.000000

rad28	1.14285e-14	1.00000	7.90771e-14	1.000000
rad24	1.10778e-14	1.00000	7.66503e-14	1.000000
rad12	1.07284e-14	1.00000	7.42324e-14	1.000000
rad47	6.03541e-15	1.00000	4.17606e-14	1.000000
rad26	3.20451e-15	1.00000	2.21728e-14	1.000000
rad13	2.21098e-15	1.00000	1.52984e-14	1.000000
rad10	1.24017e-15	1.00000	8.58109e-15	1.000000
rad25	6.72546e-16	1.00000	4.65352e-15	1.000000
rad5	2.02425e-16	1.00000	1.40063e-15	1.000000
rad33	1.94932e-16	1.00000	1.34878e-15	1.000000
rad2	9.72341e-17	1.00000	6.72789e-16	1.000000
rad1	4.69454e-17	1.00000	3.24827e-16	1.000000
rad14	1.20226e-17	1.00000	8.31878e-17	1.000000
rad27	6.78852e-18	1.00000	4.69715e-17	1.000000
rad3	5.92985e-18	1.00000	4.10302e-17	1.000000
rad4	3.42561e-18	1.00000	2.37027e-17	1.000000

0.100000000E-01 Pa, 3500.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.10046e-12 (1.00)		3.29923e-13 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.842928	0.842928	0.00000	0.00000
PhCH2CCH+H	0.0857241	0.928652	0.545762	0.545762
Indene+H	0.0229287	0.951581	0.145976	0.691738
PhCHCCH2+H	0.0212218	0.972803	0.135108	0.826846
Ph+Allene	0.0160719	0.988874	0.102322	0.929168
PAH3+H	0.00277080	0.991645	0.0176403	0.946808
PAH7+H	0.00108547	0.992731	0.00691065	0.953719
PAH9+H	0.00103824	0.993769	0.00660998	0.960329
rad19anti	0.000786012	0.994555	0.00500415	0.965333
rad38	0.000657575	0.995213	0.00418645	0.969520
rad50	0.000571322	0.995784	0.00363732	0.973157
Ph+MeAc	0.000559758	0.996344	0.00356370	0.976721
PhCCH+CH3	0.000466753	0.996810	0.00297158	0.979692
rad30	0.000434295	0.997245	0.00276494	0.982457
rad39	0.000426787	0.997672	0.00271714	0.985174
rad51	0.000340822	0.998012	0.00216985	0.987344
rad35	0.000335221	0.998348	0.00213419	0.989478
rad46	0.000264413	0.998612	0.00168339	0.991162
rad59	0.000204435	0.998816	0.00130154	0.992463
rad67	0.000182834	0.998999	0.00116401	0.993627
PhCCCH3+H	0.000163685	0.999163	0.00104210	0.994669
rad71	0.000107601	0.999271	0.000685042	0.995354
rad60syn	0.000103349	0.999374	0.000657969	0.996012
PAH10+CH3	9.81181e-05	0.999472	0.000624669	0.996637
rad19syn	9.79725e-05	0.999570	0.000623742	0.997261
rad60anti	7.58697e-05	0.999646	0.000483025	0.997744
rad52	7.00217e-05	0.999716	0.000445793	0.998190
rad58	5.76196e-05	0.999773	0.000366835	0.998556
PAH1+H	5.20523e-05	0.999826	0.000331391	0.998888
rad73	4.43107e-05	0.999870	0.000282104	0.999170
PhcycC3H3_A+H	3.20633e-05	0.999902	0.000204131	0.999374
rad70	2.14708e-05	0.999923	0.000136694	0.999511
PAH8+H	1.37725e-05	0.999937	8.76827e-05	0.999598
rad37	1.33235e-05	0.999950	8.48243e-05	0.999683
rad72	1.23923e-05	0.999963	7.88958e-05	0.999762
rad54	8.98058e-06	0.999972	5.71749e-05	0.999819
rad34	8.46717e-06	0.999980	5.39063e-05	0.999873
rad65	8.19015e-06	0.999988	5.21426e-05	0.999925
rad68syn	1.99232e-06	0.999990	1.26841e-05	0.999938
rad64	1.43496e-06	0.999992	9.13568e-06	0.999947
rad56	1.27412e-06	0.999993	8.11171e-06	0.999955
rad68anti	1.27030e-06	0.999994	8.08736e-06	0.999963
rad40syn	1.15716e-06	0.999996	7.36708e-06	0.999971
rad55	9.87613e-07	0.999997	6.28764e-06	0.999977
rad40anti	8.52741e-07	0.999997	5.42898e-06	0.999982
rad53	8.35966e-07	0.999998	5.32218e-06	0.999988
rad62	6.97360e-07	0.999999	4.43975e-06	0.999992
rad61	6.32568e-07	1.000000	4.02725e-06	0.999996
rad43	3.12012e-07	1.000000	1.98643e-06	0.999998
rad42	1.30122e-07	1.000000	8.28424e-07	0.999999
rad41	6.11800e-08	1.000000	3.89503e-07	0.999999
rad23	5.44673e-13	1.000000	3.46766e-12	0.999999
rad20	2.74123e-13	1.000000	1.74521e-12	0.999999
rad6	2.21591e-13	1.000000	1.41076e-12	0.999999
rad9	2.07074e-13	1.000000	1.31834e-12	0.999999

rad45	2.07065e-13	1.00000	1.31828e-12	0.999999
rad21	1.14209e-13	1.00000	7.27113e-13	0.999999
rad22	7.24513e-14	1.00000	4.61261e-13	0.999999
rad11	6.61201e-14	1.00000	4.20954e-13	0.999999
rad36	3.95146e-14	1.00000	2.51570e-13	0.999999
rad18	2.79283e-14	1.00000	1.77806e-13	0.999999
rad8	2.04865e-14	1.00000	1.30427e-13	0.999999
rad15	1.87789e-14	1.00000	1.19556e-13	0.999999
rad12	8.20877e-15	1.00000	5.22611e-14	0.999999
rad7	7.98563e-15	1.00000	5.08405e-14	0.999999
rad24	7.82702e-15	1.00000	4.98307e-14	0.999999
rad47	6.94994e-15	1.00000	4.42468e-14	0.999999
rad28	6.85931e-15	1.00000	4.36698e-14	0.999999
rad26	2.09201e-15	1.00000	1.33188e-14	0.999999
rad13	1.21836e-15	1.00000	7.75670e-15	0.999999
rad10	8.54374e-16	1.00000	5.43937e-15	0.999999
rad25	5.44464e-16	1.00000	3.46633e-15	0.999999
rad5	1.93752e-16	1.00000	1.23353e-15	0.999999
rad33	1.19819e-16	1.00000	7.62830e-16	0.999999
rad2	6.63729e-17	1.00000	4.22563e-16	0.999999
rad1	3.51525e-17	1.00000	2.23798e-16	0.999999
rad14	1.06177e-17	1.00000	6.75978e-17	0.999999
rad27	5.69309e-18	1.00000	3.62451e-17	0.999999
rad3	3.27453e-18	1.00000	2.08473e-17	0.999999
rad4	1.85182e-18	1.00000	1.17896e-17	0.999999

0.100000000E-01 Pa, 3750.00000 K

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

Total | 2.70978e-12 (1.00) | 4.61708e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829614	0.829614	0.00000	0.00000
PhCH2CCH+H	0.0978316	0.927446	0.574175	0.574175
PhCHCCH2+H	0.0240141	0.951460	0.140939	0.715114
Indene+H	0.0190788	0.970538	0.111974	0.827088
Ph+Allene	0.0176550	0.988193	0.103617	0.930705
PAH3+H	0.00305565	0.991249	0.0179337	0.948639
PAH7+H	0.00116197	0.992411	0.00681959	0.955458
PAH9+H	0.000955042	0.993366	0.00560515	0.961063
rad19anti	0.000750872	0.994117	0.00440688	0.965470
Ph+MeAc	0.000618509	0.994736	0.00363004	0.969100
rad38	0.000613193	0.995349	0.00359884	0.972699
rad50	0.000603635	0.995952	0.00354274	0.976242
PhCCH+CH3	0.000581835	0.996534	0.00341479	0.979657
rad39	0.000465790	0.997000	0.00273373	0.982390
rad30	0.000416539	0.997417	0.00244467	0.984835
rad51	0.000380994	0.997798	0.00223606	0.987071
rad35	0.000341508	0.998139	0.00200431	0.989075
rad46	0.000254425	0.998393	0.00149322	0.990569
rad59	0.000220084	0.998614	0.00129168	0.991860
rad67	0.000201013	0.998815	0.00117975	0.993040
PhCCCH3+H	0.000187990	0.999003	0.00110331	0.994143
rad71	0.000146780	0.999149	0.000861455	0.995005
rad19syn	0.000129261	0.999279	0.000758633	0.995764
PAH10+CH3	0.000111172	0.999390	0.000652468	0.996416
rad60syn	0.000106707	0.999496	0.000626263	0.997042
rad60anti	7.88382e-05	0.999575	0.000462703	0.997505
rad52	7.54521e-05	0.999651	0.000442829	0.997948
rad58	6.80261e-05	0.999719	0.000399246	0.998347
PAH1+H	6.45813e-05	0.999783	0.000379028	0.998726
rad73	5.74878e-05	0.999841	0.000337397	0.999063
PhcycC3H3_A+H	3.61213e-05	0.999877	0.000211996	0.999275
rad70	2.62309e-05	0.999903	0.000153949	0.999429
PAH8+H	2.07420e-05	0.999924	0.000121735	0.999551
rad72	1.85748e-05	0.999943	0.000109016	0.999660
rad37	1.33636e-05	0.999956	7.84314e-05	0.999739
rad34	1.07116e-05	0.999967	6.28665e-05	0.999801
rad54	9.53969e-06	0.999976	5.59886e-05	0.999857
rad65	9.05125e-06	0.999985	5.31219e-05	0.999911
rad68syn	2.77520e-06	0.999988	1.62877e-05	0.999927
rad64	1.81236e-06	0.999990	1.06367e-05	0.999938
rad68anti	1.76807e-06	0.999992	1.03768e-05	0.999948
rad40syn	1.68193e-06	0.999993	9.87130e-06	0.999958
rad56	1.59874e-06	0.999995	9.38301e-06	0.999967
rad40anti	1.25564e-06	0.999996	7.36935e-06	0.999975
rad55	1.07703e-06	0.999997	6.32112e-06	0.999981
rad53	1.00840e-06	0.999998	5.91834e-06	0.999987

rad62	8.81786e-07	0.999999	5.17522e-06	0.999992
rad61	7.98455e-07	1.000000	4.68615e-06	0.999997
rad43	3.67979e-07	1.000000	2.15967e-06	0.999999
rad42	1.74775e-07	1.000000	1.02576e-06	1.000000
rad41	7.77074e-08	1.000000	4.56066e-07	1.000000
rad23	2.80593e-13	1.000000	1.64680e-12	1.000000
rad20	2.02985e-13	1.000000	1.19132e-12	1.000000
rad9	1.29196e-13	1.000000	7.58253e-13	1.000000
rad45	1.20810e-13	1.000000	7.09034e-13	1.000000
rad6	1.02824e-13	1.000000	6.03474e-13	1.000000
rad21	8.13816e-14	1.000000	4.77630e-13	1.000000
rad11	4.76057e-14	1.000000	2.79398e-13	1.000000
rad22	4.23948e-14	1.000000	2.48816e-13	1.000000
rad36	2.31929e-14	1.000000	1.36119e-13	1.000000
rad8	1.91572e-14	1.000000	1.12434e-13	1.000000
rad18	1.80293e-14	1.000000	1.05814e-13	1.000000
rad15	1.23591e-14	1.000000	7.25356e-14	1.000000
rad47	7.59707e-15	1.000000	4.45873e-14	1.000000
rad12	6.32118e-15	1.000000	3.70991e-14	1.000000
rad24	5.63439e-15	1.000000	3.30683e-14	1.000000
rad7	4.44612e-15	1.000000	2.60943e-14	1.000000
rad28	4.34687e-15	1.000000	2.55118e-14	1.000000
rad26	1.38629e-15	1.000000	8.13615e-15	1.000000
rad13	7.33197e-16	1.000000	4.30314e-15	1.000000
rad10	5.96706e-16	1.000000	3.50208e-15	1.000000
rad25	4.50618e-16	1.000000	2.64468e-15	1.000000
rad5	1.85454e-16	1.000000	1.08843e-15	1.000000
rad33	7.87850e-17	1.000000	4.62390e-16	1.000000
rad2	4.73925e-17	1.000000	2.78147e-16	1.000000
rad1	2.67240e-17	1.000000	1.56843e-16	1.000000
rad14	9.45664e-18	1.000000	5.55011e-17	1.000000
rad27	4.76381e-18	1.000000	2.79589e-17	1.000000
rad3	1.99777e-18	1.000000	1.17249e-17	1.000000
rad4	1.11452e-18	1.000000	6.54115e-18	1.000000

0.100000000E-01 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28297e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.816017	0.816017	0.000000	0.000000
PhCH2CCH+H	0.109584	0.925601	0.595618	0.595618
PhCHCCH2+H	0.0267098	0.952311	0.145175	0.740793
Ph+Allene	0.0193046	0.971615	0.104926	0.845719
Indene+H	0.0160484	0.987664	0.0872277	0.932947
PAH3+H	0.00329013	0.990954	0.0178828	0.950829
PAH7+H	0.00121791	0.992172	0.00661968	0.957449
PAH9+H	0.000864009	0.993036	0.00469613	0.962145
PhCCH+CH3	0.000720156	0.993756	0.00391424	0.966060
rad19anti	0.000708493	0.994464	0.00385085	0.969910
Ph+MeAc	0.000663934	0.995128	0.00360866	0.973519
rad50	0.000616859	0.995745	0.00335280	0.976872
rad38	0.000560144	0.996305	0.00304454	0.979916
rad39	0.000491035	0.996796	0.00266891	0.982585
rad51	0.000408498	0.997205	0.00222030	0.984806
rad30	0.000396478	0.997601	0.00215497	0.986961
rad35	0.000343096	0.997945	0.00186482	0.988825
rad46	0.000239253	0.998184	0.00130041	0.990126
rad59	0.000231903	0.998416	0.00126046	0.991386
rad67	0.000214260	0.998630	0.00116456	0.992551
PhCCCH3+H	0.000213580	0.998844	0.00116087	0.993712
rad71	0.000187844	0.999031	0.00102098	0.994733
rad19syn	0.000163941	0.999195	0.000891067	0.995624
PAH10+CH3	0.000121536	0.999317	0.000660582	0.996284
rad60syn	0.000108396	0.999425	0.000589161	0.996873
rad60anti	8.05427e-05	0.999506	0.000437772	0.997311
rad52	7.82960e-05	0.999584	0.000425560	0.997737
rad58	7.77572e-05	0.999662	0.000422632	0.998159
PAH1+H	7.70001e-05	0.999739	0.000418517	0.998578
rad73	7.03552e-05	0.999809	0.000382400	0.998960
PhcycC3H3_A+H	3.98813e-05	0.999849	0.000216766	0.999177
rad70	3.09908e-05	0.999880	0.000168444	0.999346
PAH8+H	2.94355e-05	0.999910	0.000159990	0.999506
rad72	2.58284e-05	0.999935	0.000140384	0.999646
rad37	1.30848e-05	0.999948	7.11194e-05	0.999717
rad34	1.30497e-05	0.999961	7.09289e-05	0.999788
rad54	1.00584e-05	0.999972	5.46703e-05	0.999843

rad65	9.63686e-06	0.999981	5.23790e-05	0.999895
rad68syn	3.67778e-06	0.999985	1.99898e-05	0.999915
rad68anti	2.34154e-06	0.999987	1.27269e-05	0.999928
rad40syn	2.31359e-06	0.999990	1.25750e-05	0.999940
rad64	2.19077e-06	0.999992	1.19074e-05	0.999952
rad56	1.94741e-06	0.999994	1.05847e-05	0.999963
rad40anti	1.74691e-06	0.999995	9.49492e-06	0.999972
rad53	1.18744e-06	0.999997	6.45406e-06	0.999979
rad55	1.16170e-06	0.999998	6.31418e-06	0.999985
rad62	1.07271e-06	0.999999	5.83046e-06	0.999991
rad61	9.59661e-07	1.000000	5.21602e-06	0.999996
rad43	4.20278e-07	1.000000	2.28433e-06	0.999998
rad42	2.24298e-07	1.000000	1.21912e-06	1.000000
rad41	9.47630e-08	1.000000	5.15063e-07	1.000000
rad20	1.54924e-13	1.000000	8.42054e-13	1.000000
rad23	1.51474e-13	1.000000	8.23303e-13	1.000000
rad9	8.31425e-14	1.000000	4.51902e-13	1.000000
rad45	7.26852e-14	1.000000	3.95064e-13	1.000000
rad21	5.97861e-14	1.000000	3.24954e-13	1.000000
rad6	5.34343e-14	1.000000	2.90430e-13	1.000000
rad11	3.60167e-14	1.000000	1.95761e-13	1.000000
rad22	2.61569e-14	1.000000	1.42170e-13	1.000000
rad8	1.76788e-14	1.000000	9.60889e-14	1.000000
rad36	1.40120e-14	1.000000	7.61589e-14	1.000000
rad18	1.20676e-14	1.000000	6.55905e-14	1.000000
rad15	8.31886e-15	1.000000	4.52153e-14	1.000000
rad47	7.97227e-15	1.000000	4.33315e-14	1.000000
rad12	4.90407e-15	1.000000	2.66550e-14	1.000000
rad24	4.12849e-15	1.000000	2.24395e-14	1.000000
rad28	2.86193e-15	1.000000	1.55554e-14	1.000000
rad7	2.66769e-15	1.000000	1.44996e-14	1.000000
rad26	9.33972e-16	1.000000	5.07639e-15	1.000000
rad13	4.73283e-16	1.000000	2.57243e-15	1.000000
rad10	4.24863e-16	1.000000	2.30925e-15	1.000000
rad25	3.78503e-16	1.000000	2.05727e-15	1.000000
rad5	1.77524e-16	1.000000	9.64890e-16	1.000000
rad33	5.47163e-17	1.000000	2.97398e-16	1.000000
rad2	3.55586e-17	1.000000	1.93271e-16	1.000000
rad1	2.05537e-17	1.000000	1.11715e-16	1.000000
rad14	8.43918e-18	1.000000	4.58692e-17	1.000000
rad27	3.99734e-18	1.000000	2.17266e-17	1.000000
rad3	1.31690e-18	1.000000	7.15771e-18	1.000000
rad4	7.29304e-19	1.000000	3.96396e-18	1.000000

0.100000000E-02 Pa, 20.0000000 K

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

Total | 1.34336e-156 (1.00) | 1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999813	0.999813	0.999814	0.999814
rad6	0.000181993	0.999995	0.000181993	0.999996
rad23	4.12140e-06	0.999999	4.12141e-06	1.000000
Benzyl+C2H2	8.11914e-07	1.000000	0.000000	1.000000
rad45	4.59593e-08	1.000000	4.59594e-08	1.000000
rad7	1.58326e-08	1.000000	1.58326e-08	1.000000
rad11	1.58209e-08	1.000000	1.58210e-08	1.000000
rad36	2.86291e-09	1.000000	2.86291e-09	1.000000
rad22	1.87447e-09	1.000000	1.87447e-09	1.000000
rad2	9.28115e-11	1.000000	9.28116e-11	1.000000
rad3	9.16692e-11	1.000000	9.16693e-11	1.000000
rad13	7.32363e-11	1.000000	7.32364e-11	1.000000
rad4	4.63436e-11	1.000000	4.63436e-11	1.000000
rad20	1.22196e-11	1.000000	1.22196e-11	1.000000
rad21	7.62850e-12	1.000000	7.62851e-12	1.000000
rad1	5.86591e-12	1.000000	5.86592e-12	1.000000
rad10	4.63656e-12	1.000000	4.63656e-12	1.000000
rad18	1.51675e-13	1.000000	1.51675e-13	1.000000
rad33	1.37778e-13	1.000000	1.37778e-13	1.000000
rad35	2.22422e-14	1.000000	2.22422e-14	1.000000
PAH9+H	1.63476e-15	1.000000	1.63476e-15	1.000000
rad24	5.81968e-16	1.000000	5.81969e-16	1.000000
rad28	1.73016e-17	1.000000	1.73016e-17	1.000000
rad38	3.38141e-18	1.000000	3.38142e-18	1.000000
rad26	6.02576e-19	1.000000	6.02576e-19	1.000000
rad27	5.98345e-20	1.000000	5.98345e-20	1.000000
rad31	2.45768e-20	1.000000	2.45768e-20	1.000000
rad30	4.28360e-21	1.000000	4.28360e-21	1.000000

rad25	1.47755e-21	1.00000	1.47755e-21	1.00000
PhCHCCH2+H	6.57221e-22	1.00000	6.57221e-22	1.00000
PhCCH+CH3	1.88579e-22	1.00000	1.88580e-22	1.00000
rad14	1.36996e-22	1.00000	1.36996e-22	1.00000
PhCCCH3+H	4.07088e-23	1.00000	4.07089e-23	1.00000
rad15	1.17471e-24	1.00000	1.17471e-24	1.00000
rad8	7.56809e-27	1.00000	7.56809e-27	1.00000
rad9	2.27307e-28	1.00000	2.27307e-28	1.00000
Ph+MeAc	3.68287e-29	1.00000	3.68287e-29	1.00000
PAH7+H	1.78530e-29	1.00000	1.78530e-29	1.00000
rad46	8.31414e-30	1.00000	8.31414e-30	1.00000
rad12	2.59520e-30	1.00000	2.59520e-30	1.00000
rad39	3.18157e-31	1.00000	3.18158e-31	1.00000
Ph+Allene	3.30143e-32	1.00000	3.30143e-32	1.00000
rad60syn	1.65393e-36	1.00000	1.65394e-36	1.00000
PhCH2CCH+H	9.65819e-38	1.00000	9.65820e-38	1.00000
rad60anti	7.20129e-38	1.00000	7.20130e-38	1.00000
rad37	2.03061e-38	1.00000	2.03061e-38	1.00000
rad5	2.43993e-41	1.00000	2.43993e-41	1.00000
PAH3+H	1.81643e-45	1.00000	1.81643e-45	1.00000
rad59	9.29125e-46	1.00000	9.29126e-46	1.00000
rad50	1.92775e-46	1.00000	1.92775e-46	1.00000
rad19syn	1.56362e-52	1.00000	1.56362e-52	1.00000
rad52	1.51182e-56	1.00000	1.51182e-56	1.00000
rad54	5.12715e-57	1.00000	5.12716e-57	1.00000
PAH10+CH3	3.39333e-57	1.00000	3.39334e-57	1.00000
rad43	7.78591e-58	1.00000	7.78592e-58	1.00000
rad62	3.65667e-60	1.00000	3.65668e-60	1.00000
rad51	4.02810e-63	1.00000	4.02810e-63	1.00000
rad70	9.27734e-66	1.00000	9.27735e-66	1.00000
PhcycC3H3_A+H	4.13832e-66	1.00000	4.13833e-66	1.00000
rad55	2.21741e-66	1.00000	2.21741e-66	1.00000
rad65	4.80500e-68	1.00000	4.80501e-68	1.00000
rad58	1.45137e-69	1.00000	1.45137e-69	1.00000
PAH1+H	2.80043e-71	1.00000	2.80043e-71	1.00000
rad34	1.91491e-73	1.00000	1.91491e-73	1.00000
rad42	1.55839e-77	1.00000	1.55839e-77	1.00000
rad41	1.98928e-78	1.00000	1.98928e-78	1.00000
rad47	4.42632e-79	1.00000	4.42632e-79	1.00000

0.100000000E-02 Pa, 30.0000000 K

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

Total | 1.15918e-108 (1.00) | 1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999814	0.999814	0.999815	0.999815
rad6	0.000184715	0.999999	0.000184715	1.000000
Benzyl+C2H2	1.04103e-06	1.000000	0.000000	1.000000
rad23	2.59341e-07	1.000000	2.59341e-07	1.000000
rad7	1.52270e-08	1.000000	1.52270e-08	1.000000
rad11	6.65321e-09	1.000000	6.65321e-09	1.000000
rad45	2.64742e-09	1.000000	2.64742e-09	1.000000
rad2	2.62547e-10	1.000000	2.62547e-10	1.000000
rad36	1.64863e-10	1.000000	1.64863e-10	1.000000
rad3	1.22955e-10	1.000000	1.22955e-10	1.000000
rad22	1.11747e-10	1.000000	1.11747e-10	1.000000
rad13	7.42268e-11	1.000000	7.42268e-11	1.000000
rad4	6.21694e-11	1.000000	6.21695e-11	1.000000
rad1	1.66033e-11	1.000000	1.66033e-11	1.000000
rad10	1.34855e-11	1.000000	1.34855e-11	1.000000
rad20	5.81549e-12	1.000000	5.81550e-12	1.000000
rad21	3.62930e-12	1.000000	3.62931e-12	1.000000
rad33	1.39914e-13	1.000000	1.39914e-13	1.000000
rad18	4.92027e-14	1.000000	4.92028e-14	1.000000
rad35	1.76111e-14	1.000000	1.76111e-14	1.000000
PAH9+H	1.03268e-15	1.000000	1.03269e-15	1.000000
rad28	4.24571e-17	1.000000	4.24571e-17	1.000000
rad24	3.68440e-17	1.000000	3.68441e-17	1.000000
rad26	2.72997e-18	1.000000	2.72997e-18	1.000000
rad38	2.01622e-18	1.000000	2.01622e-18	1.000000
rad27	1.46837e-19	1.000000	1.46837e-19	1.000000
rad31	3.55470e-20	1.000000	3.55470e-20	1.000000
rad30	3.41420e-21	1.000000	3.41420e-21	1.000000
PhCHCCH2+H	2.37963e-21	1.000000	2.37963e-21	1.000000
rad25	1.83879e-21	1.000000	1.83879e-21	1.000000
PhCCH+CH3	5.54466e-22	1.000000	5.54467e-22	1.000000
rad14	2.23575e-22	1.000000	2.23575e-22	1.000000

PhCCCH3+H	1.30911e-22	1.00000	1.30911e-22	1.000000
rad15	2.33925e-24	1.00000	2.33925e-24	1.000000
rad8	2.04944e-26	1.00000	2.04944e-26	1.000000
rad9	5.40727e-28	1.00000	5.40728e-28	1.000000
Ph+MeAc	8.42780e-29	1.00000	8.42781e-29	1.000000
PAH7+H	7.01027e-29	1.00000	7.01028e-29	1.000000
rad46	1.01494e-29	1.00000	1.01494e-29	1.000000
rad12	8.43834e-30	1.00000	8.43835e-30	1.000000
rad39	1.09461e-30	1.00000	1.09461e-30	1.000000
Ph+Allene	6.55079e-32	1.00000	6.55080e-32	1.000000
rad60syn	3.41530e-36	1.00000	3.41531e-36	1.000000
rad60anti	1.37350e-37	1.00000	1.37351e-37	1.000000
PhCH2CCH+H	1.18674e-37	1.00000	1.18674e-37	1.000000
rad37	2.25629e-38	1.00000	2.25630e-38	1.000000
rad5	2.40027e-41	1.00000	2.40028e-41	1.000000
PAH3+H	1.35824e-45	1.00000	1.35824e-45	1.000000
rad59	7.05409e-46	1.00000	7.05409e-46	1.000000
rad50	1.66100e-46	1.00000	1.66101e-46	1.000000
rad19syn	3.05790e-53	1.00000	3.05790e-53	1.000000
rad52	3.20403e-57	1.00000	3.20403e-57	1.000000
rad54	6.71540e-58	1.00000	6.71541e-58	1.000000
PAH10+CH3	4.43362e-58	1.00000	4.43363e-58	1.000000
rad43	1.01710e-58	1.00000	1.01710e-58	1.000000
rad62	3.96397e-61	1.00000	3.96398e-61	1.000000
rad51	4.39036e-64	1.00000	4.39036e-64	1.000000
rad70	7.32076e-67	1.00000	7.32077e-67	1.000000
PhcycC3H3_A+H	3.19379e-67	1.00000	3.19379e-67	1.000000
rad55	1.71512e-67	1.00000	1.71512e-67	1.000000
rad65	4.10995e-69	1.00000	4.10995e-69	1.000000
rad58	1.09984e-70	1.00000	1.09984e-70	1.000000
PAH1+H	1.83632e-72	1.00000	1.83632e-72	1.000000
rad34	1.22834e-74	1.00000	1.22834e-74	1.000000
rad42	9.49448e-79	1.00000	9.49449e-79	1.000000
rad41	1.20666e-79	1.00000	1.20667e-79	1.000000
rad47	1.52328e-80	1.00000	1.52328e-80	1.000000

0.100000000E-02 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999808	0.999808	0.999810	0.999810
rad6	0.000190134	0.999998	0.000190134	1.00000
Benzyl+C2H2	1.52900e-06	1.000000	0.00000	1.00000
rad23	5.36096e-08	1.000000	5.36097e-08	1.00000
rad7	1.52762e-08	1.000000	1.52762e-08	1.00000
rad11	5.11304e-09	1.000000	5.11305e-09	1.00000
rad45	5.22785e-10	1.000000	5.22786e-10	1.00000
rad2	4.92831e-10	1.000000	4.92832e-10	1.00000
rad3	1.41227e-10	1.000000	1.41228e-10	1.00000
rad13	7.64331e-11	1.000000	7.64332e-11	1.00000
rad4	7.14306e-11	1.000000	7.14307e-11	1.00000
rad36	3.25357e-11	1.000000	3.25357e-11	1.00000
rad1	3.12045e-11	1.000000	3.12046e-11	1.00000
rad10	2.53766e-11	1.000000	2.53767e-11	1.00000
rad22	2.30576e-11	1.000000	2.30576e-11	1.00000
rad20	3.77035e-12	1.000000	3.77036e-12	1.00000
rad21	2.35336e-12	1.000000	2.35336e-12	1.00000
rad33	1.44212e-13	1.000000	1.44212e-13	1.00000
rad35	7.21109e-14	1.000000	7.21110e-14	1.00000
rad18	2.72823e-14	1.000000	2.72823e-14	1.00000
PAH9+H	1.57417e-15	1.000000	1.57418e-15	1.00000
rad28	9.43658e-17	1.000000	9.43660e-17	1.00000
rad26	8.38046e-18	1.000000	8.38047e-18	1.00000
rad24	7.72995e-18	1.000000	7.72996e-18	1.00000
rad38	2.25314e-18	1.000000	2.25315e-18	1.00000
rad27	3.18862e-19	1.000000	3.18862e-19	1.00000
rad31	4.46249e-20	1.000000	4.46249e-20	1.00000
PhCHCCH2+H	6.44118e-21	1.000000	6.44119e-21	1.00000
rad30	5.01687e-21	1.000000	5.01688e-21	1.00000
rad25	2.81857e-21	1.000000	2.81857e-21	1.00000
PhCCH+CH3	1.37713e-21	1.000000	1.37713e-21	1.00000
rad14	3.99531e-22	1.000000	3.99532e-22	1.00000
PhCCCH3+H	3.34521e-22	1.000000	3.34522e-22	1.00000
rad15	5.10353e-24	1.000000	5.10354e-24	1.00000
rad8	4.89863e-26	1.000000	4.89864e-26	1.00000
rad9	1.23237e-27	1.000000	1.23237e-27	1.00000

PAH7+H	2.02564e-28	1.000000	2.02564e-28	1.00000
Ph+MeAc	1.86013e-28	1.000000	1.86014e-28	1.00000
rad12	2.14113e-29	1.000000	2.14114e-29	1.00000
rad46	2.02230e-29	1.000000	2.02230e-29	1.00000
rad39	2.89598e-30	1.000000	2.89598e-30	1.00000
Ph+Allene	1.31510e-31	1.000000	1.31510e-31	1.00000
rad60syn	7.05169e-36	1.000000	7.05170e-36	1.00000
rad60anti	2.67728e-37	1.000000	2.67728e-37	1.00000
PhCH2CCH+H	1.71721e-37	1.000000	1.71722e-37	1.00000
rad37	3.04756e-38	1.000000	3.04757e-38	1.00000
rad5	3.02334e-41	1.000000	3.02335e-41	1.00000
PAH3+H	1.45660e-45	1.000000	1.45660e-45	1.00000
rad59	7.61769e-46	1.000000	7.61771e-46	1.00000
rad50	1.93229e-46	1.000000	1.93229e-46	1.00000
rad19syn	1.75727e-53	1.000000	1.75728e-53	1.00000
rad52	1.89791e-57	1.000000	1.89791e-57	1.00000
rad54	3.35806e-58	1.000000	3.35807e-58	1.00000
PAH10+CH3	2.22159e-58	1.000000	2.22159e-58	1.00000
rad43	5.09561e-59	1.000000	5.09561e-59	1.00000
rad62	1.87549e-61	1.000000	1.87549e-61	1.00000
rad51	2.07720e-64	1.000000	2.07720e-64	1.00000
rad70	3.20142e-67	1.000000	3.20142e-67	1.00000
PhcycC3H3_A+H	1.39099e-67	1.000000	1.39099e-67	1.00000
rad55	7.47218e-68	1.000000	7.47219e-68	1.00000
rad65	1.82743e-69	1.000000	1.82743e-69	1.00000
rad58	4.77461e-71	1.000000	4.77461e-71	1.00000
PAH1+H	7.82466e-73	1.000000	7.82468e-73	1.00000
rad34	5.24187e-75	1.000000	5.24187e-75	1.00000
rad42	4.07793e-79	1.000000	4.07793e-79	1.00000
rad41	5.22957e-80	1.000000	5.22958e-80	1.00000
rad47	4.42261e-81	1.000000	4.42262e-81	1.00000

0.100000000E-02 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.31816e-70 (1.00)	2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999800	0.999800	0.999803	0.999803
rad6	0.000197433	0.999997	0.000197433	1.00000
Benzyl+C2H2	2.26156e-06	1.000000	0.00000	1.00000
rad23	1.77617e-08	1.000000	1.77617e-08	1.00000
rad7	1.56159e-08	1.000000	1.56159e-08	1.00000
rad11	4.64318e-09	1.000000	4.64319e-09	1.00000
rad2	8.10368e-10	1.000000	8.10370e-10	1.00000
rad45	1.68100e-10	1.000000	1.68101e-10	1.00000
rad3	1.55828e-10	1.000000	1.55828e-10	1.00000
rad13	7.94546e-11	1.000000	7.94548e-11	1.00000
rad4	7.88502e-11	1.000000	7.88503e-11	1.00000
rad1	5.14001e-11	1.000000	5.14002e-11	1.00000
rad10	4.16867e-11	1.000000	4.16868e-11	1.00000
rad36	1.04536e-11	1.000000	1.04536e-11	1.00000
rad22	7.77630e-12	1.000000	7.77632e-12	1.00000
rad20	2.74500e-12	1.000000	2.74500e-12	1.00000
rad21	1.71401e-12	1.000000	1.71401e-12	1.00000
rad35	3.29661e-13	1.000000	3.29662e-13	1.00000
rad33	1.50040e-13	1.000000	1.50040e-13	1.00000
rad18	1.82226e-14	1.000000	1.82226e-14	1.00000
PAH9+H	1.03351e-14	1.000000	1.03351e-14	1.00000
rad28	2.23778e-16	1.000000	2.23779e-16	1.00000
rad26	2.47441e-17	1.000000	2.47441e-17	1.00000
rad38	6.03684e-18	1.000000	6.03685e-18	1.00000
rad24	2.61948e-18	1.000000	2.61949e-18	1.00000
rad27	7.34338e-19	1.000000	7.34340e-19	1.00000
rad30	1.82097e-19	1.000000	1.82098e-19	1.00000
rad31	5.46121e-20	1.000000	5.46122e-20	1.00000
PhCHCCH2+H	1.77150e-20	1.000000	1.77151e-20	1.00000
rad25	5.22056e-21	1.000000	5.22057e-21	1.00000
PhCCH+CH3	3.62066e-21	1.000000	3.62067e-21	1.00000
PhCCCH3+H	8.94275e-22	1.000000	8.94277e-22	1.00000
rad14	8.25803e-22	1.000000	8.25804e-22	1.00000
rad15	1.25834e-23	1.000000	1.25834e-23	1.00000
rad8	1.27599e-25	1.000000	1.27599e-25	1.00000
rad9	3.13300e-27	1.000000	3.13301e-27	1.00000
PAH7+H	5.95113e-28	1.000000	5.95114e-28	1.00000
Ph+MeAc	4.63716e-28	1.000000	4.63717e-28	1.00000
rad12	5.75070e-29	1.000000	5.75071e-29	1.00000
rad46	4.92067e-29	1.000000	4.92068e-29	1.00000

rad39	7.99959e-30	1.000000	7.99961e-30	1.00000
Ph+Allene	3.06490e-31	1.000000	3.06490e-31	1.00000
rad60syn	1.67652e-35	1.000000	1.67652e-35	1.00000
rad60anti	6.10499e-37	1.000000	6.10500e-37	1.00000
PhCH2CCH+H	3.18175e-37	1.000000	3.18176e-37	1.00000
rad37	5.39049e-38	1.000000	5.39051e-38	1.00000
rad5	5.12013e-41	1.000000	5.12014e-41	1.00000
PAH3+H	2.22994e-45	1.000000	2.22994e-45	1.00000
rad59	1.17050e-45	1.000000	1.17050e-45	1.00000
rad50	3.10907e-46	1.000000	3.10907e-46	1.00000
rad19syn	1.95234e-53	1.000000	1.95235e-53	1.00000
rad52	2.13472e-57	1.000000	2.13473e-57	1.00000
rad54	3.55434e-58	1.000000	3.55435e-58	1.00000
PAH10+CH3	2.36623e-58	1.000000	2.36624e-58	1.00000
rad43	5.42657e-59	1.000000	5.42658e-59	1.00000
rad62	1.96629e-61	1.000000	1.96629e-61	1.00000
rad51	2.17033e-64	1.000000	2.17033e-64	1.00000
rad70	3.34689e-67	1.000000	3.34689e-67	1.00000
PhcycC3H3_A+H	1.45692e-67	1.000000	1.45693e-67	1.00000
rad55	7.82420e-68	1.000000	7.82422e-68	1.00000
rad65	1.90257e-69	1.000000	1.90257e-69	1.00000
rad58	5.00960e-71	1.000000	5.00961e-71	1.00000
PAH1+H	8.41167e-73	1.000000	8.41169e-73	1.00000
rad34	5.69064e-75	1.000000	5.69065e-75	1.00000
rad42	4.58008e-79	1.000000	4.58009e-79	1.00000
rad41	6.04577e-80	1.000000	6.04578e-80	1.00000
rad47	3.59582e-81	1.000000	3.59583e-81	1.00000

0.100000000E-02 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.44107e-61 (1.00)	8.44104e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999791	0.999791	0.999794	0.999794
rad6	0.000206085	0.999997	0.000206086	1.00000
Benzyl+C2H2	3.25360e-06	1.00000	0.00000	1.00000
rad7	1.61271e-08	1.00000	1.61272e-08	1.00000
rad23	7.57486e-09	1.00000	7.57489e-09	1.00000
rad11	4.50446e-09	1.00000	4.50448e-09	1.00000
rad2	1.25202e-09	1.00000	1.25202e-09	1.00000
rad3	1.69410e-10	1.00000	1.69410e-10	1.00000
rad4	8.57698e-11	1.00000	8.57701e-11	1.00000
rad13	8.30640e-11	1.00000	8.30643e-11	1.00000
rad1	7.95849e-11	1.00000	7.95852e-11	1.00000
rad45	7.01469e-11	1.00000	7.01472e-11	1.00000
rad10	6.43083e-11	1.00000	6.43085e-11	1.00000
rad36	4.35859e-12	1.00000	4.35860e-12	1.00000
rad22	3.40753e-12	1.00000	3.40754e-12	1.00000
rad20	2.12761e-12	1.00000	2.12761e-12	1.00000
rad21	1.32920e-12	1.00000	1.32920e-12	1.00000
rad35	9.65445e-13	1.00000	9.65449e-13	1.00000
rad33	1.56991e-13	1.00000	1.56992e-13	1.00000
PAH9+H	6.55597e-14	1.00000	6.55599e-14	1.00000
rad18	1.33683e-14	1.00000	1.33683e-14	1.00000
rad28	6.15342e-16	1.00000	6.15344e-16	1.00000
rad38	8.50057e-17	1.00000	8.50060e-17	1.00000
rad26	7.99638e-17	1.00000	7.99641e-17	1.00000
rad30	2.80559e-17	1.00000	2.80560e-17	1.00000
rad27	1.92635e-18	1.00000	1.92635e-18	1.00000
rad24	1.15255e-18	1.00000	1.15256e-18	1.00000
rad31	6.68369e-20	1.00000	6.68371e-20	1.00000
PhCHCCH2+H	5.54532e-20	1.00000	5.54534e-20	1.00000
rad25	1.20159e-20	1.00000	1.20159e-20	1.00000
PhCCH+CH3	1.10549e-20	1.00000	1.10549e-20	1.00000
PhCCCH3+H	2.76686e-21	1.00000	2.76687e-21	1.00000
rad14	2.06828e-21	1.00000	2.06829e-21	1.00000
rad15	5.11329e-22	1.00000	5.11331e-22	1.00000
rad8	3.92767e-25	1.00000	3.92768e-25	1.00000
rad9	9.51934e-27	1.00000	9.51937e-27	1.00000
PAH7+H	1.99796e-27	1.00000	1.99796e-27	1.00000
Ph+MeAc	1.39569e-27	1.00000	1.39570e-27	1.00000
rad12	1.81076e-28	1.00000	1.81077e-28	1.00000
rad46	1.49582e-28	1.00000	1.49583e-28	1.00000
rad39	2.56980e-29	1.00000	2.56981e-29	1.00000
Ph+Allene	8.78807e-31	1.00000	8.78810e-31	1.00000
rad60syn	4.87589e-35	1.00000	4.87591e-35	1.00000
rad60anti	1.72272e-36	1.00000	1.72272e-36	1.00000

PhCH2CCH+H	7.75648e-37	1.00000	7.75651e-37	1.00000
rad37	1.27455e-37	1.00000	1.27455e-37	1.00000
rad5	1.17745e-40	1.00000	1.17746e-40	1.00000
PAH3+H	4.80445e-45	1.00000	4.80446e-45	1.00000
rad59	2.52698e-45	1.00000	2.52699e-45	1.00000
rad50	6.90847e-46	1.00000	6.90850e-46	1.00000
rad19syn	3.58543e-53	1.00000	3.58545e-53	1.00000
rad52	3.93438e-57	1.00000	3.93439e-57	1.00000
rad54	6.49631e-58	1.00000	6.49634e-58	1.00000
PAH10+CH3	4.38439e-58	1.00000	4.38441e-58	1.00000
rad43	1.00548e-58	1.00000	1.00549e-58	1.00000
rad62	3.65206e-61	1.00000	3.65208e-61	1.00000
rad51	3.99619e-64	1.00000	3.99621e-64	1.00000
rad70	6.40750e-67	1.00000	6.40752e-67	1.00000
PhcycC3H3_A+H	2.80277e-67	1.00000	2.80278e-67	1.00000
rad55	1.50431e-67	1.00000	1.50431e-67	1.00000
rad65	3.59095e-69	1.00000	3.59096e-69	1.00000
rad58	9.67802e-71	1.00000	9.67805e-71	1.00000
PAH1+H	1.70235e-72	1.00000	1.70236e-72	1.00000
rad34	1.16819e-74	1.00000	1.16819e-74	1.00000
rad42	1.01077e-78	1.00000	1.01077e-78	1.00000
rad41	1.46438e-79	1.00000	1.46439e-79	1.00000
rad47	5.82063e-81	1.00000	5.82065e-81	1.00000

0.1000000000E-02 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.61998e-54 (1.00)	5.61996e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999779	0.999779	0.999784	0.999784
rad6	0.000215946	0.999995	0.000215947	1.000000
Benzyl+C2H2	4.55713e-06	1.000000	0.000000	1.000000
rad7	1.67687e-08	1.000000	1.67687e-08	1.000000
rad11	4.51413e-09	1.000000	4.51415e-09	1.000000
rad23	3.77883e-09	1.000000	3.77885e-09	1.000000
rad2	1.87164e-09	1.000000	1.87165e-09	1.000000
rad3	1.83313e-10	1.000000	1.83314e-10	1.000000
rad1	1.19268e-10	1.000000	1.19269e-10	1.000000
rad10	9.59962e-11	1.000000	9.59966e-11	1.000000
rad4	9.28680e-11	1.000000	9.28685e-11	1.000000
rad13	8.71980e-11	1.000000	8.71984e-11	1.000000
rad45	3.44100e-11	1.000000	3.44102e-11	1.000000
rad36	2.13640e-12	1.000000	2.13641e-12	1.000000
rad35	2.10298e-12	1.000000	2.10299e-12	1.000000
rad22	1.75501e-12	1.000000	1.75502e-12	1.000000
rad20	1.71580e-12	1.000000	1.71581e-12	1.000000
rad21	1.07261e-12	1.000000	1.07261e-12	1.000000
PAH9+H	2.63563e-13	1.000000	2.63564e-13	1.000000
rad33	1.64954e-13	1.000000	1.64955e-13	1.000000
rad18	1.03742e-14	1.000000	1.03742e-14	1.000000
rad28	2.18335e-15	1.000000	2.18336e-15	1.000000
rad30	1.03364e-15	1.000000	1.03364e-15	1.000000
rad38	9.33117e-16	1.000000	9.33121e-16	1.000000
rad26	3.14821e-16	1.000000	3.14823e-16	1.000000
rad27	5.96610e-18	1.000000	5.96612e-18	1.000000
rad24	5.99109e-19	1.000000	5.99112e-19	1.000000
PhCHCCH2+H	2.24070e-19	1.000000	2.24071e-19	1.000000
rad15	9.43037e-20	1.000000	9.43041e-20	1.000000
rad31	8.26688e-20	1.000000	8.26691e-20	1.000000
PhCCH+CH3	4.42136e-20	1.000000	4.42138e-20	1.000000
rad25	4.03705e-20	1.000000	4.03707e-20	1.000000
PhCCCH3+H	1.11993e-20	1.000000	1.11994e-20	1.000000
rad14	6.91011e-21	1.000000	6.91015e-21	1.000000
rad8	1.60305e-24	1.000000	1.60306e-24	1.000000
rad9	3.86112e-26	1.000000	3.86114e-26	1.000000
PAH7+H	8.72899e-27	1.000000	8.72903e-27	1.000000
Ph+MeAc	5.65263e-27	1.000000	5.65265e-27	1.000000
rad46	2.18006e-27	1.000000	2.18007e-27	1.000000
rad12	7.54879e-28	1.000000	7.54883e-28	1.000000
rad39	1.08759e-28	1.000000	1.08760e-28	1.000000
Ph+Allene	3.43726e-30	1.000000	3.43728e-30	1.000000
rad60syn	1.92629e-34	1.000000	1.92630e-34	1.000000
rad60anti	6.66062e-36	1.000000	6.66065e-36	1.000000
PhCH2CCH+H	2.70659e-36	1.000000	2.70660e-36	1.000000
rad37	4.36515e-37	1.000000	4.36517e-37	1.000000
rad5	3.96264e-40	1.000000	3.96266e-40	1.000000
PAH3+H	1.54969e-44	1.000000	1.54969e-44	1.000000

rad59	8.15982e-45	1.000000	8.15985e-45	1.000000
rad50	2.27021e-45	1.000000	2.27022e-45	1.000000
rad19syn	1.08582e-52	1.000000	1.08582e-52	1.000000
rad52	1.18983e-56	1.000000	1.18983e-56	1.000000
rad54	2.00744e-57	1.000000	2.00745e-57	1.000000
PAH10+CH3	1.39689e-57	1.000000	1.39689e-57	1.000000
rad43	3.20492e-58	1.000000	3.20493e-58	1.000000
rad62	1.17521e-60	1.000000	1.17521e-60	1.000000
rad51	1.25890e-63	1.000000	1.25891e-63	1.000000
rad70	2.14701e-66	1.000000	2.14702e-66	1.000000
PhcycC3H3_A+H	9.45469e-67	1.000000	9.45474e-67	1.000000
rad55	5.07043e-67	1.000000	5.07046e-67	1.000000
rad65	1.17931e-68	1.000000	1.17931e-68	1.000000
rad58	3.28363e-70	1.000000	3.28364e-70	1.000000
PAH1+H	6.14218e-72	1.000000	6.14221e-72	1.000000
rad34	4.28868e-74	1.000000	4.28870e-74	1.000000
rad42	4.55033e-78	1.000000	4.55035e-78	1.000000
rad41	8.91135e-79	1.000000	8.91139e-79	1.000000
rad47	1.73907e-80	1.000000	1.73907e-80	1.000000

0.100000000E-02 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.28864e-49 (1.00)	7.28860e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999767	0.999767	0.999773	0.999773
rad6	0.000227052	0.999994	0.000227054	1.000000
Benzyl+C2H2	6.25295e-06	1.000000	0.000000	1.000000
rad7	1.75290e-08	1.000000	1.75291e-08	1.000000
rad11	4.60959e-09	1.000000	4.60962e-09	1.000000
rad2	2.74803e-09	1.000000	2.74805e-09	1.000000
rad23	2.09657e-09	1.000000	2.09658e-09	1.000000
rad3	1.98540e-10	1.000000	1.98542e-10	1.000000
rad1	1.75604e-10	1.000000	1.75605e-10	1.000000
rad10	1.40774e-10	1.000000	1.40774e-10	1.000000
rad4	1.00655e-10	1.000000	1.00655e-10	1.000000
rad13	9.18715e-11	1.000000	9.18721e-11	1.000000
rad45	1.88348e-11	1.000000	1.88349e-11	1.000000
rad35	3.82551e-12	1.000000	3.82553e-12	1.000000
rad20	1.42191e-12	1.000000	1.42192e-12	1.000000
rad36	1.16859e-12	1.000000	1.16860e-12	1.000000
rad22	1.00769e-12	1.000000	1.00770e-12	1.000000
rad21	8.89533e-13	1.000000	8.89538e-13	1.000000
PAH9+H	7.62888e-13	1.000000	7.62893e-13	1.000000
rad33	1.73963e-13	1.000000	1.73964e-13	1.000000
rad30	1.51587e-14	1.000000	1.51588e-14	1.000000
rad28	1.01906e-14	1.000000	1.01906e-14	1.000000
rad18	8.35415e-15	1.000000	8.35420e-15	1.000000
rad38	5.82372e-15	1.000000	5.82376e-15	1.000000
rad26	1.56383e-15	1.000000	1.56384e-15	1.000000
rad27	2.02981e-17	1.000000	2.02982e-17	1.000000
rad15	4.84696e-18	1.000000	4.84699e-18	1.000000
PhCHCCH2+H	1.37748e-18	1.000000	1.37748e-18	1.000000
rad24	3.50269e-19	1.000000	3.50271e-19	1.000000
PhCCH+CH3	2.79377e-19	1.000000	2.79379e-19	1.000000
rad25	2.55726e-19	1.000000	2.55727e-19	1.000000
rad31	1.03939e-19	1.000000	1.03940e-19	1.000000
PhCCCH3+H	7.16337e-20	1.000000	7.16341e-20	1.000000
rad14	3.43761e-20	1.000000	3.43763e-20	1.000000
rad8	1.05976e-23	1.000000	1.05977e-23	1.000000
rad46	4.64973e-25	1.000000	4.64976e-25	1.000000
rad9	2.54988e-25	1.000000	2.54989e-25	1.000000
PAH7+H	6.10848e-26	1.000000	6.10852e-26	1.000000
Ph+MeAc	3.75137e-26	1.000000	3.75139e-26	1.000000
rad12	5.10140e-27	1.000000	5.10143e-27	1.000000
rad39	7.44130e-28	1.000000	7.44135e-28	1.000000
Ph+Allene	2.22562e-29	1.000000	2.22564e-29	1.000000
rad60syn	1.25583e-33	1.000000	1.25584e-33	1.000000
rad60anti	4.27817e-35	1.000000	4.27820e-35	1.000000
PhCH2CCH+H	1.62085e-35	1.000000	1.62086e-35	1.000000
rad37	2.59040e-36	1.000000	2.59042e-36	1.000000
rad5	2.32764e-39	1.000000	2.32765e-39	1.000000
PAH3+H	8.85374e-44	1.000000	8.85380e-44	1.000000
rad59	4.66429e-44	1.000000	4.66432e-44	1.000000
rad50	1.31032e-44	1.000000	1.31033e-44	1.000000
rad19syn	6.20598e-52	1.000000	6.20602e-52	1.000000
rad52	6.76982e-56	1.000000	6.76986e-56	1.000000

rad54	1.19011e-56	1.00000	1.19011e-56	1.00000
PAH10+CH3	8.91981e-57	1.00000	8.91987e-57	1.00000
rad43	2.04999e-57	1.00000	2.05000e-57	1.00000
rad62	7.58906e-60	1.00000	7.58911e-60	1.00000
rad51	7.67497e-63	1.00000	7.67502e-63	1.00000
rad70	1.41802e-65	1.00000	1.41803e-65	1.00000
PhcycC3H3_A+H	6.29859e-66	1.00000	6.29863e-66	1.00000
rad55	3.37420e-66	1.00000	3.37422e-66	1.00000
rad65	7.59857e-68	1.00000	7.59862e-68	1.00000
rad58	2.20373e-69	1.00000	2.20375e-69	1.00000
PAH1+H	4.47785e-71	1.00000	4.47787e-71	1.00000
rad34	3.19828e-73	1.00000	3.19830e-73	1.00000
rad42	6.69407e-77	1.00000	6.69411e-77	1.00000
rad41	2.26588e-77	1.00000	2.26590e-77	1.00000
rad47	1.07131e-79	1.00000	1.07132e-79	1.00000

0.100000000E-02 Pa, 90.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	6.85154e-45 (1.00)		6.85148e-45 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.999752	0.999752	0.999760	0.999760
rad6	0.000239519	0.999992	0.000239522	1.000000
Benzyl+C2H2	8.45054e-06	1.000000	0.000000	1.000000
rad7	1.84092e-08	1.000000	1.84094e-08	1.000000
rad11	4.76568e-09	1.000000	4.76572e-09	1.000000
rad2	3.99360e-09	1.000000	3.99364e-09	1.000000
rad23	1.25564e-09	1.000000	1.25565e-09	1.000000
rad1	2.55984e-10	1.000000	2.55986e-10	1.000000
rad3	2.16050e-10	1.000000	2.16052e-10	1.000000
rad10	2.04380e-10	1.000000	2.04382e-10	1.000000
rad4	1.09619e-10	1.000000	1.09620e-10	1.000000
rad13	9.71332e-11	1.000000	9.71340e-11	1.000000
rad45	1.11548e-11	1.000000	1.11549e-11	1.000000
rad35	6.21942e-12	1.000000	6.21947e-12	1.000000
PAH9+H	1.77210e-12	1.000000	1.77211e-12	1.000000
rad20	1.20176e-12	1.000000	1.20177e-12	1.000000
rad21	7.52414e-13	1.000000	7.52420e-13	1.000000
rad36	6.91706e-13	1.000000	6.91712e-13	1.000000
rad22	6.25174e-13	1.000000	6.25179e-13	1.000000
rad33	1.84113e-13	1.000000	1.84115e-13	1.000000
rad30	1.20888e-13	1.000000	1.20889e-13	1.000000
rad28	5.20486e-14	1.000000	5.20491e-14	1.000000
rad38	2.42995e-14	1.000000	2.42997e-14	1.000000
rad26	8.65414e-15	1.000000	8.65422e-15	1.000000
rad18	6.90322e-15	1.000000	6.90328e-15	1.000000
rad15	1.02303e-16	1.000000	1.02304e-16	1.000000
rad27	6.65151e-17	1.000000	6.65156e-17	1.000000
PhCHCCH2+H	1.31536e-17	1.000000	1.31537e-17	1.000000
PhCCH+CH3	3.08833e-18	1.000000	3.08835e-18	1.000000
rad25	2.03328e-18	1.000000	2.03329e-18	1.000000
PhCCCH3+H	8.14375e-19	1.000000	8.14382e-19	1.000000
rad14	2.28188e-19	1.000000	2.28190e-19	1.000000
rad24	2.23826e-19	1.000000	2.23828e-19	1.000000
rad31	1.33233e-19	1.000000	1.33234e-19	1.000000
rad8	1.47016e-22	1.000000	1.47017e-22	1.000000
rad46	3.75566e-23	1.000000	3.75569e-23	1.000000
rad9	3.84099e-24	1.000000	3.84102e-24	1.000000
PAH7+H	9.32104e-25	1.000000	9.32112e-25	1.000000
Ph+MeAc	5.55804e-25	1.000000	5.55809e-25	1.000000
rad12	7.61701e-26	1.000000	7.61708e-26	1.000000
rad39	1.12095e-26	1.000000	1.12096e-26	1.000000
Ph+Allene	3.24659e-28	1.000000	3.24662e-28	1.000000
rad60syn	1.83997e-32	1.000000	1.83999e-32	1.000000
rad60anti	6.20827e-34	1.000000	6.20832e-34	1.000000
PhCH2CCH+H	2.24854e-34	1.000000	2.24856e-34	1.000000
rad37	3.59164e-35	1.000000	3.59167e-35	1.000000
rad5	3.21263e-38	1.000000	3.21266e-38	1.000000
PAH3+H	1.19936e-42	1.000000	1.19937e-42	1.000000
rad59	6.31907e-43	1.000000	6.31912e-43	1.000000
rad50	1.78308e-43	1.000000	1.78310e-43	1.000000
rad19syn	8.80209e-51	1.000000	8.80216e-51	1.000000
rad52	9.54509e-55	1.000000	9.54517e-55	1.000000
rad54	1.77559e-55	1.000000	1.77560e-55	1.000000
PAH10+CH3	1.60889e-55	1.000000	1.60890e-55	1.000000
rad43	3.71545e-56	1.000000	3.71548e-56	1.000000
rad62	1.39011e-58	1.000000	1.39012e-58	1.000000

rad51	1.19291e-61	1.000000	1.19292e-61	1.000000
rad70	2.46317e-64	1.000000	2.46319e-64	1.000000
PhcycC3H3_A+H	1.10952e-64	1.000000	1.10953e-64	1.000000
rad55	5.93191e-65	1.000000	5.93196e-65	1.000000
rad65	1.28069e-66	1.000000	1.28070e-66	1.000000
rad58	3.92920e-68	1.000000	3.92924e-68	1.000000
PAH1+H	9.46140e-70	1.000000	9.46148e-70	1.000000
rad34	7.09912e-72	1.000000	7.09918e-72	1.000000
rad42	5.99815e-75	1.000000	5.99820e-75	1.000000
rad41	2.82992e-75	1.000000	2.82994e-75	1.000000
rad47	1.90756e-78	1.000000	1.90758e-78	1.000000

0.100000000E-02 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02670e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999735	0.999735	0.999746	0.999746
rad6	0.000253502	0.999989	0.000253505	1.000000
Benzyl+C2H2	1.12936e-05	1.000000	0.000000	1.000000
rad7	1.94163e-08	1.000000	1.94166e-08	1.000000
rad2	5.76367e-09	1.000000	5.76373e-09	1.000000
rad11	4.97181e-09	1.000000	4.97187e-09	1.000000
rad23	7.96442e-10	1.000000	7.96451e-10	1.000000
rad1	3.70687e-10	1.000000	3.70691e-10	1.000000
rad10	2.94742e-10	1.000000	2.94746e-10	1.000000
rad3	2.36902e-10	1.000000	2.36905e-10	1.000000
rad4	1.20305e-10	1.000000	1.20307e-10	1.000000
rad13	1.03050e-10	1.000000	1.03051e-10	1.000000
rad35	9.41252e-12	1.000000	9.41262e-12	1.000000
rad45	7.00912e-12	1.000000	7.00920e-12	1.000000
PAH9+H	3.54430e-12	1.000000	3.54434e-12	1.000000
rad20	1.03070e-12	1.000000	1.03071e-12	1.000000
rad21	6.45894e-13	1.000000	6.45901e-13	1.000000
rad30	6.32306e-13	1.000000	6.32313e-13	1.000000
rad36	4.34460e-13	1.000000	4.34465e-13	1.000000
rad22	4.10804e-13	1.000000	4.10809e-13	1.000000
rad28	2.44511e-13	1.000000	2.44514e-13	1.000000
rad33	1.95540e-13	1.000000	1.95542e-13	1.000000
rad38	7.67731e-14	1.000000	7.67740e-14	1.000000
rad26	4.54945e-14	1.000000	4.54950e-14	1.000000
rad18	5.81197e-15	1.000000	5.81203e-15	1.000000
rad15	1.16322e-15	1.000000	1.16324e-15	1.000000
rad27	1.94206e-16	1.000000	1.94208e-16	1.000000
PhCHCCH2+H	1.44633e-16	1.000000	1.44635e-16	1.000000
PhCCH+CH3	4.35081e-17	1.000000	4.35086e-17	1.000000
rad25	1.28060e-17	1.000000	1.28062e-17	1.000000
PhCCH3+H	1.21485e-17	1.000000	1.21487e-17	1.000000
rad14	1.48336e-18	1.000000	1.48338e-18	1.000000
rad31	1.74207e-19	1.000000	1.74209e-19	1.000000
rad24	1.53526e-19	1.000000	1.53528e-19	1.000000
rad8	3.50354e-21	1.000000	3.50358e-21	1.000000
rad46	1.26187e-21	1.000000	1.26188e-21	1.000000
rad9	1.29475e-22	1.000000	1.29476e-22	1.000000
PAH7+H	3.11951e-23	1.000000	3.11955e-23	1.000000
Ph+MeAc	2.29452e-23	1.000000	2.29455e-23	1.000000
rad12	2.70190e-24	1.000000	2.70193e-24	1.000000
rad39	4.42112e-25	1.000000	4.42117e-25	1.000000
Ph+Allene	1.30917e-26	1.000000	1.30919e-26	1.000000
rad60syn	7.43950e-31	1.000000	7.43958e-31	1.000000
rad60anti	2.49648e-32	1.000000	2.49651e-32	1.000000
PhCH2CCH+H	8.81552e-33	1.000000	8.81562e-33	1.000000
rad37	1.41836e-33	1.000000	1.41838e-33	1.000000
rad5	1.26935e-36	1.000000	1.26936e-36	1.000000
PAH3+H	4.67418e-41	1.000000	4.67423e-41	1.000000
rad59	2.46220e-41	1.000000	2.46223e-41	1.000000
rad50	6.98025e-42	1.000000	6.98032e-42	1.000000
rad19syn	3.73113e-49	1.000000	3.73118e-49	1.000000
rad52	4.07714e-53	1.000000	4.07719e-53	1.000000
PAH10+CH3	1.13384e-53	1.000000	1.13385e-53	1.000000
rad54	8.08566e-54	1.000000	8.08575e-54	1.000000
rad43	2.64288e-54	1.000000	2.64291e-54	1.000000
rad62	1.03346e-56	1.000000	1.03347e-56	1.000000
rad51	6.19960e-60	1.000000	6.19967e-60	1.000000
rad70	1.51745e-62	1.000000	1.51746e-62	1.000000
PhcycC3H3_A+H	7.09369e-63	1.000000	7.09377e-63	1.000000
rad55	3.76839e-63	1.000000	3.76843e-63	1.000000

rad65	8.37376e-65	1.000000	8.37385e-65	1.000000
rad58	2.59461e-66	1.000000	2.59464e-66	1.000000
PAH1+H	1.03971e-67	1.000000	1.03972e-67	1.000000
rad34	8.97860e-70	1.000000	8.97870e-70	1.000000
rad42	2.71841e-72	1.000000	2.71844e-72	1.000000
rad41	1.41446e-72	1.000000	1.41448e-72	1.000000
rad47	2.10713e-76	1.000000	2.10716e-76	1.000000

0.100000000E-02 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04926e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999716	0.999716	0.999731	0.999731
rad6	0.000269183	0.999985	0.000269187	1.000000
Benzyl+C2H2	1.49685e-05	1.000000	0.000000	1.000000
rad7	2.05615e-08	1.000000	2.05618e-08	1.000000
rad2	8.26364e-09	1.000000	8.26376e-09	1.000000
rad11	5.22408e-09	1.000000	5.22415e-09	1.000000
rad1	5.33425e-10	1.000000	5.33433e-10	1.000000
rad23	5.28230e-10	1.000000	5.28238e-10	1.000000
rad10	4.22353e-10	1.000000	4.22359e-10	1.000000
rad3	2.62341e-10	1.000000	2.62344e-10	1.000000
rad4	1.33353e-10	1.000000	1.33355e-10	1.000000
rad13	1.09703e-10	1.000000	1.09704e-10	1.000000
rad35	1.36051e-11	1.000000	1.36053e-11	1.000000
PAH9+H	6.39133e-12	1.000000	6.39142e-12	1.000000
rad45	4.61152e-12	1.000000	4.61159e-12	1.000000
rad30	2.44380e-12	1.000000	2.44384e-12	1.000000
rad28	9.98048e-13	1.000000	9.98063e-13	1.000000
rad20	8.93986e-13	1.000000	8.94000e-13	1.000000
rad21	5.60770e-13	1.000000	5.60778e-13	1.000000
rad36	2.85778e-13	1.000000	2.85783e-13	1.000000
rad22	2.82088e-13	1.000000	2.82093e-13	1.000000
rad26	2.10172e-13	1.000000	2.10175e-13	1.000000
rad33	2.08400e-13	1.000000	2.08403e-13	1.000000
rad38	1.99474e-13	1.000000	1.99477e-13	1.000000
rad15	8.46950e-15	1.000000	8.46963e-15	1.000000
rad18	4.96192e-15	1.000000	4.96199e-15	1.000000
PhCHCCH2+H	1.39561e-15	1.000000	1.39563e-15	1.000000
PhCCH+CH3	5.39980e-16	1.000000	5.39988e-16	1.000000
rad27	4.96406e-16	1.000000	4.96414e-16	1.000000
PhCCCH3+H	1.61127e-16	1.000000	1.61129e-16	1.000000
rad25	5.94746e-17	1.000000	5.94754e-17	1.000000
rad14	7.92667e-18	1.000000	7.92679e-18	1.000000
rad31	2.31913e-19	1.000000	2.31916e-19	1.000000
rad24	1.11665e-19	1.000000	1.11666e-19	1.000000
rad8	7.92884e-20	1.000000	7.92896e-20	1.000000
rad46	2.23967e-20	1.000000	2.23971e-20	1.000000
rad9	4.42542e-21	1.000000	4.42549e-21	1.000000
Ph+MeAc	1.27549e-21	1.000000	1.27551e-21	1.000000
PAH7+H	1.12982e-21	1.000000	1.12983e-21	1.000000
rad12	1.06435e-22	1.000000	1.06437e-22	1.000000
rad39	2.26938e-23	1.000000	2.26942e-23	1.000000
Ph+Allene	1.88702e-24	1.000000	1.88704e-24	1.000000
rad60syn	2.70749e-26	1.000000	2.70753e-26	1.000000
rad60anti	1.02884e-27	1.000000	1.02886e-27	1.000000
PhCH2CCH+H	1.10943e-30	1.000000	1.10944e-30	1.000000
rad37	1.79727e-31	1.000000	1.79730e-31	1.000000
rad5	1.61691e-34	1.000000	1.61694e-34	1.000000
PAH3+H	5.92827e-39	1.000000	5.92836e-39	1.000000
rad59	3.12147e-39	1.000000	3.12151e-39	1.000000
rad50	9.04844e-40	1.000000	9.04858e-40	1.000000
rad19syn	5.34114e-47	1.000000	5.34122e-47	1.000000
rad52	6.59192e-51	1.000000	6.59202e-51	1.000000
PAH10+CH3	3.48557e-51	1.000000	3.48562e-51	1.000000
rad54	1.29750e-51	1.000000	1.29752e-51	1.000000
rad43	8.19971e-52	1.000000	8.19983e-52	1.000000
rad62	3.60503e-54	1.000000	3.60508e-54	1.000000
rad51	1.91938e-57	1.000000	1.91941e-57	1.000000
rad70	4.76217e-60	1.000000	4.76224e-60	1.000000
PhcycC3H3_A+H	2.41548e-60	1.000000	2.41551e-60	1.000000
rad55	1.26268e-60	1.000000	1.26270e-60	1.000000
rad65	4.84714e-62	1.000000	4.84722e-62	1.000000
rad58	9.45793e-64	1.000000	9.45807e-64	1.000000
PAH1+H	8.39045e-65	1.000000	8.39058e-65	1.000000
rad34	8.64321e-67	1.000000	8.64334e-67	1.000000

rad42	4.24072e-69	1.00000	4.24078e-69	1.00000
rad41	2.29320e-69	1.00000	2.29323e-69	1.00000
rad47	2.83231e-73	1.00000	2.83235e-73	1.00000

0.100000000E-02 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87094e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999693	0.999693	0.999713	0.999713
rad6	0.000286767	0.999980	0.000286772	1.000000
Benzyl+C2H2	1.97148e-05	0.999999	0.000000	1.000000
rad7	2.18583e-08	1.000000	2.18587e-08	1.000000
rad2	1.17514e-08	1.000000	1.17516e-08	1.000000
rad11	5.52204e-09	1.000000	5.52215e-09	1.000000
rad1	7.61596e-10	1.000000	7.61611e-10	1.000000
rad10	6.00395e-10	1.000000	6.00407e-10	1.000000
rad23	3.63077e-10	1.000000	3.63084e-10	1.000000
rad3	2.93834e-10	1.000000	2.93839e-10	1.000000
rad4	1.49521e-10	1.000000	1.49524e-10	1.000000
rad13	1.17181e-10	1.000000	1.17184e-10	1.000000
rad35	1.90992e-11	1.000000	1.90996e-11	1.000000
PAH9+H	1.07192e-11	1.000000	1.07194e-11	1.000000
rad30	7.55601e-12	1.000000	7.55616e-12	1.000000
rad28	3.54657e-12	1.000000	3.54664e-12	1.000000
rad45	3.14786e-12	1.000000	3.14792e-12	1.000000
rad26	8.38706e-13	1.000000	8.38723e-13	1.000000
rad20	7.82253e-13	1.000000	7.82269e-13	1.000000
rad21	4.91205e-13	1.000000	4.91214e-13	1.000000
rad38	4.50491e-13	1.000000	4.50500e-13	1.000000
rad33	2.22875e-13	1.000000	2.22879e-13	1.000000
rad22	2.00516e-13	1.000000	2.00520e-13	1.000000
rad36	1.95065e-13	1.000000	1.95069e-13	1.000000
rad15	4.42976e-14	1.000000	4.42985e-14	1.000000
PhCHCCH2+H	1.08436e-14	1.000000	1.08438e-14	1.000000
PhCCH+CH3	5.21974e-15	1.000000	5.21984e-15	1.000000
rad18	4.28136e-15	1.000000	4.28145e-15	1.000000
PhCCCH3+H	1.65409e-15	1.000000	1.65413e-15	1.000000
rad27	1.12126e-15	1.000000	1.12129e-15	1.000000
rad25	2.12418e-16	1.000000	2.12422e-16	1.000000
rad14	3.37679e-17	1.000000	3.37686e-17	1.000000
rad8	1.30755e-18	1.000000	1.30758e-18	1.000000
rad31	3.13107e-19	1.000000	3.13114e-19	1.000000
rad46	2.46962e-19	1.000000	2.46967e-19	1.000000
rad9	1.03885e-19	1.000000	1.03887e-19	1.000000
rad24	8.53678e-20	1.000000	8.53695e-20	1.000000
Ph+MeAc	4.54478e-20	1.000000	4.54487e-20	1.000000
PAH7+H	2.90385e-20	1.000000	2.90391e-20	1.000000
rad12	2.91867e-21	1.000000	2.91873e-21	1.000000
rad39	7.76089e-22	1.000000	7.76104e-22	1.000000
Ph+Allene	1.25164e-22	1.000000	1.25166e-22	1.000000
rad60syn	1.65629e-24	1.000000	1.65632e-24	1.000000
rad60anti	9.96114e-26	1.000000	9.96134e-26	1.000000
PhCH2CCH+H	2.32399e-28	1.000000	2.32404e-28	1.000000
rad37	3.74398e-29	1.000000	3.74405e-29	1.000000
rad5	3.39130e-32	1.000000	3.39137e-32	1.000000
PAH3+H	1.26392e-36	1.000000	1.26394e-36	1.000000
rad59	6.65107e-37	1.000000	6.65121e-37	1.000000
rad50	1.99435e-37	1.000000	1.99439e-37	1.000000
rad19syn	1.31956e-44	1.000000	1.31959e-44	1.000000
rad52	2.15493e-48	1.000000	2.15497e-48	1.000000
PAH10+CH3	1.75690e-48	1.000000	1.75693e-48	1.000000
rad43	4.15472e-49	1.000000	4.15480e-49	1.000000
rad54	3.77503e-49	1.000000	3.77510e-49	1.000000
rad62	2.13347e-51	1.000000	2.13352e-51	1.000000
rad51	1.50855e-54	1.000000	1.50858e-54	1.000000
rad70	3.46303e-57	1.000000	3.46309e-57	1.000000
PhcycC3H3_A+H	1.91196e-57	1.000000	1.91199e-57	1.000000
rad55	9.80074e-58	1.000000	9.80093e-58	1.000000
rad65	6.07985e-59	1.000000	6.07997e-59	1.000000
rad58	7.99564e-61	1.000000	7.99580e-61	1.000000
PAH1+H	1.32904e-61	1.000000	1.32906e-61	1.000000
rad34	1.60069e-63	1.000000	1.60072e-63	1.000000
rad42	8.70609e-66	1.000000	8.70626e-66	1.000000
rad41	4.80234e-66	1.000000	4.80243e-66	1.000000
rad47	5.29325e-70	1.000000	5.29336e-70	1.000000

0.100000000E-02 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.94360e-35 (1.00)	3.94350e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999668	0.999668	0.999693	0.999693
rad6	0.000306475	0.999974	0.000306483	0.999999
Benzyl+C2H2	2.58373e-05	1.00000	0.00000	0.999999
rad7	2.33225e-08	1.00000	2.33231e-08	1.000000
rad2	1.65318e-08	1.00000	1.65322e-08	1.000000
rad11	5.86728e-09	1.00000	5.86743e-09	1.000000
rad1	1.07608e-09	1.00000	1.07611e-09	1.000000
rad10	8.44482e-10	1.00000	8.44504e-10	1.000000
rad3	3.33057e-10	1.00000	3.33066e-10	1.000000
rad23	2.56992e-10	1.00000	2.56998e-10	1.000000
rad4	1.69678e-10	1.00000	1.69683e-10	1.000000
rad13	1.25586e-10	1.00000	1.25589e-10	1.000000
rad35	2.63299e-11	1.00000	2.63306e-11	1.000000
rad30	1.97447e-11	1.00000	1.97453e-11	1.000000
PAH9+H	1.70827e-11	1.00000	1.70832e-11	1.000000
rad28	1.11586e-11	1.00000	1.11589e-11	1.000000
rad26	2.90887e-12	1.00000	2.90895e-12	1.000000
rad45	2.21479e-12	1.00000	2.21484e-12	1.000000
rad38	9.18527e-13	1.00000	9.18551e-13	1.000000
rad20	6.89284e-13	1.00000	6.89302e-13	1.000000
rad21	4.33324e-13	1.00000	4.33335e-13	1.000000
rad33	2.39163e-13	1.00000	2.39169e-13	1.000000
rad15	1.80161e-13	1.00000	1.80166e-13	1.000000
rad22	1.46539e-13	1.00000	1.46543e-13	1.000000
rad36	1.37265e-13	1.00000	1.37269e-13	1.000000
PhCHCCH2+H	6.79420e-14	1.00000	6.79437e-14	1.000000
PhCCH+CH3	3.92684e-14	1.00000	3.92694e-14	1.000000
PhCCCH3+H	1.30776e-14	1.00000	1.30779e-14	1.000000
rad18	3.72451e-15	1.00000	3.72460e-15	1.000000
rad27	2.27539e-15	1.00000	2.27545e-15	1.000000
rad25	6.13983e-16	1.00000	6.13999e-16	1.000000
rad14	1.17061e-16	1.00000	1.17064e-16	1.000000
rad8	1.53616e-17	1.00000	1.53620e-17	1.000000
rad46	1.89350e-18	1.00000	1.89355e-18	1.000000
rad9	1.63508e-18	1.00000	1.63512e-18	1.000000
Ph+MeAc	1.03966e-18	1.00000	1.03968e-18	1.000000
PAH7+H	5.03944e-19	1.00000	5.03957e-19	1.000000
rad31	4.26482e-19	1.00000	4.26493e-19	1.000000
rad24	6.81371e-20	1.00000	6.81388e-20	1.000000
rad12	5.31599e-20	1.00000	5.31612e-20	1.000000
rad39	1.72448e-20	1.00000	1.72452e-20	1.000000
Ph+Allene	4.48214e-21	1.00000	4.48226e-21	1.000000
rad60syn	5.24044e-23	1.00000	5.24058e-23	1.000000
rad60anti	4.01027e-24	1.00000	4.01037e-24	1.000000
PhCH2CCH+H	1.57415e-25	1.00000	1.57419e-25	1.000000
rad37	3.44643e-26	1.00000	3.44652e-26	1.000000
rad5	1.27065e-29	1.00000	1.27069e-29	1.000000
PAH3+H	4.93818e-34	1.00000	4.93831e-34	1.000000
rad59	2.59685e-34	1.00000	2.59692e-34	1.000000
rad50	7.98947e-35	1.00000	7.98968e-35	1.000000
rad19syn	5.88200e-42	1.00000	5.88215e-42	1.000000
rad52	1.20759e-45	1.00000	1.20762e-45	1.000000
PAH10+CH3	1.07554e-45	1.00000	1.07557e-45	1.000000
rad43	2.54922e-46	1.00000	2.54928e-46	1.000000
rad54	1.91305e-46	1.00000	1.91310e-46	1.000000
rad62	1.52697e-48	1.00000	1.52701e-48	1.000000
rad51	1.60208e-51	1.00000	1.60212e-51	1.000000
rad70	3.55808e-54	1.00000	3.55817e-54	1.000000
PhcycC3H3_A+H	2.09351e-54	1.00000	2.09357e-54	1.000000
rad55	1.05367e-54	1.00000	1.05369e-54	1.000000
rad65	8.78315e-56	1.00000	8.78337e-56	1.000000
rad58	9.18571e-58	1.00000	9.18595e-58	1.000000
PAH1+H	2.50827e-58	1.00000	2.50833e-58	1.000000
rad34	3.51166e-60	1.00000	3.51175e-60	1.000000
rad42	1.95310e-62	1.00000	1.95315e-62	1.000000
rad41	1.08420e-62	1.00000	1.08423e-62	1.000000
rad47	1.02497e-66	1.00000	1.02499e-66	1.000000

0.100000000E-02 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 1.44756e-33 (1.00) 1.44751e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999638	0.999638	0.999671	0.999671
rad6	0.000328540	0.999967	0.000328551	1.000000
Benzyl+C2H2	3.37196e-05	1.00000	0.00000	1.000000
rad7	2.49710e-08	1.00000	2.49718e-08	1.000000
rad2	2.29423e-08	1.00000	2.29430e-08	1.000000
rad11	6.26248e-09	1.00000	6.26269e-09	1.000000
rad1	1.50042e-09	1.00000	1.50047e-09	1.000000
rad10	1.17193e-09	1.00000	1.17196e-09	1.000000
rad3	3.81840e-10	1.00000	3.81853e-10	1.000000
rad4	1.94780e-10	1.00000	1.94787e-10	1.000000
rad23	1.86465e-10	1.00000	1.86471e-10	1.000000
rad13	1.35022e-10	1.00000	1.35027e-10	1.000000
rad30	4.53437e-11	1.00000	4.53452e-11	1.000000
rad35	3.59029e-11	1.00000	3.59041e-11	1.000000
rad28	3.16124e-11	1.00000	3.16135e-11	1.000000
PAH9+H	2.62585e-11	1.00000	2.62594e-11	1.000000
rad26	8.87737e-12	1.00000	8.87767e-12	1.000000
rad38	1.73612e-12	1.00000	1.73617e-12	1.000000
rad45	1.59863e-12	1.00000	1.59869e-12	1.000000
rad20	6.10795e-13	1.00000	6.10815e-13	1.000000
rad15	6.02830e-13	1.00000	6.02850e-13	1.000000
rad21	3.84459e-13	1.00000	3.84472e-13	1.000000
PhCHCCH2+H	3.51830e-13	1.00000	3.51842e-13	1.000000
rad33	2.57476e-13	1.00000	2.57484e-13	1.000000
PhCCH+CH3	2.36868e-13	1.00000	2.36876e-13	1.000000
rad22	1.09546e-13	1.00000	1.09550e-13	1.000000
rad36	9.91144e-14	1.00000	9.91178e-14	1.000000
PhCCCH3+H	8.20397e-14	1.00000	8.20425e-14	1.000000
rad27	4.21693e-15	1.00000	4.21707e-15	1.000000
rad18	3.26083e-15	1.00000	3.26094e-15	1.000000
rad25	1.49840e-15	1.00000	1.49845e-15	1.000000
rad14	3.40464e-16	1.00000	3.40475e-16	1.000000
rad8	1.33668e-16	1.00000	1.33672e-16	1.000000
rad9	1.81519e-17	1.00000	1.81525e-17	1.000000
Ph+MeAc	1.60295e-17	1.00000	1.60300e-17	1.000000
rad46	1.09405e-17	1.00000	1.09408e-17	1.000000
PAH7+H	6.13561e-18	1.00000	6.13581e-18	1.000000
rad12	6.70709e-19	1.00000	6.70731e-19	1.000000
rad31	5.82795e-19	1.00000	5.82814e-19	1.000000
rad39	2.59707e-19	1.00000	2.59715e-19	1.000000
Ph+Allene	9.88294e-20	1.00000	9.88327e-20	1.000000
rad24	5.64678e-20	1.00000	5.64697e-20	1.000000
rad60syn	1.00341e-21	1.00000	1.00344e-21	1.000000
rad60anti	9.32718e-23	1.00000	9.32749e-23	1.000000
PhCH2CCH+H	1.08711e-23	1.00000	1.08714e-23	1.000000
rad37	3.08748e-24	1.00000	3.08758e-24	1.000000
rad5	6.55302e-27	1.00000	6.55324e-27	1.000000
PAH3+H	1.15623e-28	1.00000	1.15627e-28	1.000000
rad59	5.78166e-29	1.00000	5.78186e-29	1.000000
rad50	7.59677e-30	1.00000	7.59703e-30	1.000000
rad19syn	2.61311e-39	1.00000	2.61319e-39	1.000000
rad52	5.50725e-43	1.00000	5.50744e-43	1.000000
PAH10+CH3	4.69052e-43	1.00000	4.69068e-43	1.000000
rad43	1.11276e-43	1.00000	1.11280e-43	1.000000
rad54	8.96506e-44	1.00000	8.96537e-44	1.000000
rad62	7.69691e-46	1.00000	7.69717e-46	1.000000
rad51	1.13985e-48	1.00000	1.13989e-48	1.000000
rad70	2.64199e-51	1.00000	2.64208e-51	1.000000
PhcycC3H3_A+H	1.64350e-51	1.00000	1.64355e-51	1.000000
rad55	8.11475e-52	1.00000	8.11502e-52	1.000000
rad65	8.20831e-53	1.00000	8.20859e-53	1.000000
rad58	7.51600e-55	1.00000	7.51625e-55	1.000000
PAH1+H	3.24647e-55	1.00000	3.24658e-55	1.000000
rad34	5.25337e-57	1.00000	5.25354e-57	1.000000
rad42	3.00383e-59	1.00000	3.00393e-59	1.000000
rad41	1.65891e-59	1.00000	1.65897e-59	1.000000
rad47	1.27425e-63	1.00000	1.27429e-63	1.000000

0.100000000E-02 Pa, 150.00000 K

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

Total | 3.27736e-32 (1.00) | 3.27722e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.999603	0.999603	0.999647	0.999647
rad6	0.000353192	0.999956	0.000353208	1.00000
Benzyl+C2H2	4.38401e-05	1.00000	0.00000	1.00000
rad2	3.13297e-08	1.00000	3.13311e-08	1.00000
rad7	2.68211e-08	1.00000	2.68222e-08	1.00000
rad11	6.71099e-09	1.00000	6.71129e-09	1.00000
rad1	2.05950e-09	1.00000	2.05959e-09	1.00000
rad10	1.60060e-09	1.00000	1.60067e-09	1.00000
rad3	4.42037e-10	1.00000	4.42056e-10	1.00000
rad4	2.25803e-10	1.00000	2.25813e-10	1.00000
rad13	1.45597e-10	1.00000	1.45604e-10	1.00000
rad23	1.38236e-10	1.00000	1.38242e-10	1.00000
rad30	9.41572e-11	1.00000	9.41613e-11	1.00000
rad28	8.17163e-11	1.00000	8.17199e-11	1.00000
rad35	4.86419e-11	1.00000	4.86440e-11	1.00000
PAH9+H	3.93380e-11	1.00000	3.93397e-11	1.00000
rad26	2.41489e-11	1.00000	2.41500e-11	1.00000
rad38	3.09900e-12	1.00000	3.09913e-12	1.00000
rad15	1.72923e-12	1.00000	1.72930e-12	1.00000
PhCHCCH2+H	1.54640e-12	1.00000	1.54647e-12	1.00000
PhCCH+CH3	1.18320e-12	1.00000	1.18326e-12	1.00000
rad45	1.17981e-12	1.00000	1.17986e-12	1.00000
rad20	5.43742e-13	1.00000	5.43766e-13	1.00000
PhCCCH3+H	4.22288e-13	1.00000	4.22306e-13	1.00000
rad21	3.42713e-13	1.00000	3.42728e-13	1.00000
rad33	2.78032e-13	1.00000	2.78044e-13	1.00000
rad22	8.34510e-14	1.00000	8.34546e-14	1.00000
rad36	7.31912e-14	1.00000	7.31944e-14	1.00000
rad27	7.23889e-15	1.00000	7.23921e-15	1.00000
rad25	3.19091e-15	1.00000	3.19105e-15	1.00000
rad18	2.86923e-15	1.00000	2.86935e-15	1.00000
rad8	9.01978e-16	1.00000	9.02018e-16	1.00000
rad14	8.54842e-16	1.00000	8.54880e-16	1.00000
Ph+MeAc	1.77214e-16	1.00000	1.77222e-16	1.00000
rad9	1.50425e-16	1.00000	1.50432e-16	1.00000
PAH7+H	5.52528e-17	1.00000	5.52552e-17	1.00000
rad46	5.05296e-17	1.00000	5.05318e-17	1.00000
rad12	6.19989e-18	1.00000	6.20016e-18	1.00000
rad39	2.81254e-18	1.00000	2.81266e-18	1.00000
Ph+Allene	1.47671e-18	1.00000	1.47677e-18	1.00000
rad31	7.94895e-19	1.00000	7.94930e-19	1.00000
rad24	4.83644e-20	1.00000	4.83665e-20	1.00000
rad60syn	1.29219e-20	1.00000	1.29224e-20	1.00000
rad60anti	1.41879e-21	1.00000	1.41885e-21	1.00000
PhCH2CCH+H	3.39471e-22	1.00000	3.39485e-22	1.00000
rad37	9.31402e-23	1.00000	9.31442e-23	1.00000
rad5	3.08693e-25	1.00000	3.08707e-25	1.00000
PAH3+H	1.81818e-26	1.00000	1.81826e-26	1.00000
rad59	8.19531e-27	1.00000	8.19567e-27	1.00000
rad50	5.49018e-28	1.00000	5.49042e-28	1.00000
rad19syn	3.69717e-36	1.00000	3.69733e-36	1.00000
rad52	5.73516e-40	1.00000	5.73541e-40	1.00000
PAH10+CH3	2.98475e-40	1.00000	2.98488e-40	1.00000
rad54	1.17643e-40	1.00000	1.17648e-40	1.00000
rad43	7.04963e-41	1.00000	7.04994e-41	1.00000
rad62	5.26285e-43	1.00000	5.26308e-43	1.00000
rad51	1.18954e-45	1.00000	1.18959e-45	1.00000
rad70	2.45263e-48	1.00000	2.45274e-48	1.00000
PhcycC3H3_A+H	1.56129e-48	1.00000	1.56136e-48	1.00000
rad55	7.62295e-49	1.00000	7.62329e-49	1.00000
rad65	1.08494e-49	1.00000	1.08499e-49	1.00000
rad58	7.32914e-52	1.00000	7.32946e-52	1.00000
PAH1+H	4.25828e-52	1.00000	4.25847e-52	1.00000
rad34	7.58366e-54	1.00000	7.58399e-54	1.00000
rad42	5.23789e-56	1.00000	5.23812e-56	1.00000
rad41	2.94851e-56	1.00000	2.94864e-56	1.00000
rad47	2.22250e-60	1.00000	2.22260e-60	1.00000

0.100000000E-02 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01140e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999562	0.999562	0.999619	0.999619
rad6	0.000380650	0.999943	0.000380672	1.000000
Benzyl+C2H2	5.67902e-05	0.999999	0.00000	1.000000
rad2	4.20225e-08	0.999999	4.20249e-08	1.000000

rad7	2.88893e-08	1.000000	2.88909e-08	1.000000
rad11	7.21629e-09	1.000000	7.21670e-09	1.000000
rad1	2.77787e-09	1.000000	2.77803e-09	1.000000
rad10	2.14752e-09	1.000000	2.14764e-09	1.000000
rad3	5.15410e-10	1.000000	5.15439e-10	1.000000
rad4	2.63688e-10	1.000000	2.63703e-10	1.000000
rad28	1.94628e-10	1.000000	1.94639e-10	1.000000
rad30	1.80563e-10	1.000000	1.80573e-10	1.000000
rad13	1.57416e-10	1.000000	1.57425e-10	1.000000
rad23	1.04478e-10	1.000000	1.04484e-10	1.000000
rad35	6.56486e-11	1.000000	6.56524e-11	1.000000
rad26	5.92574e-11	1.000000	5.92608e-11	1.000000
PAH9+H	5.78469e-11	1.000000	5.78502e-11	1.000000
PhCHCCH2+H	5.90514e-12	1.000000	5.90547e-12	1.000000
rad38	5.29353e-12	1.000000	5.29383e-12	1.000000
PhCCH+CH3	5.03376e-12	1.000000	5.03405e-12	1.000000
rad15	4.38483e-12	1.000000	4.38508e-12	1.000000
PhCCCH3+H	1.83703e-12	1.000000	1.83714e-12	1.000000
rad45	8.88223e-13	1.000000	8.88274e-13	1.000000
rad20	4.85904e-13	1.000000	4.85931e-13	1.000000
rad21	3.06702e-13	1.000000	3.06719e-13	1.000000
rad33	3.01046e-13	1.000000	3.01064e-13	1.000000
rad22	6.45968e-14	1.000000	6.46004e-14	1.000000
rad36	5.51496e-14	1.000000	5.51528e-14	1.000000
rad27	1.16454e-14	1.000000	1.16461e-14	1.000000
rad25	6.08201e-15	1.000000	6.08236e-15	1.000000
rad8	4.91600e-15	1.000000	4.91628e-15	1.000000
rad18	2.53469e-15	1.000000	2.53484e-15	1.000000
rad14	1.89802e-15	1.000000	1.89813e-15	1.000000
Ph+MeAc	1.48286e-15	1.000000	1.48295e-15	1.000000
rad9	9.76988e-16	1.000000	9.77043e-16	1.000000
PAH7+H	3.86156e-16	1.000000	3.86178e-16	1.000000
rad46	1.94962e-16	1.000000	1.94973e-16	1.000000
rad12	4.41571e-17	1.000000	4.41597e-17	1.000000
rad39	2.30963e-17	1.000000	2.30976e-17	1.000000
Ph+Allene	1.60023e-17	1.000000	1.60032e-17	1.000000
rad31	1.07769e-18	1.000000	1.07775e-18	1.000000
rad60syn	1.20722e-19	1.000000	1.20728e-19	1.000000
rad24	4.26386e-20	1.000000	4.26410e-20	1.000000
rad60anti	1.53143e-20	1.000000	1.53152e-20	1.000000
PhCH2CCH+H	6.50162e-21	1.000000	6.50199e-21	1.000000
rad37	1.74736e-21	1.000000	1.74746e-21	1.000000
rad5	7.07649e-24	1.000000	7.07689e-24	1.000000
PAH3+H	5.45267e-25	1.000000	5.45298e-25	1.000000
rad59	2.30225e-25	1.000000	2.30238e-25	1.000000
rad50	1.44834e-26	1.000000	1.44842e-26	1.000000
rad19syn	3.77198e-33	1.000000	3.77219e-33	1.000000
rad52	4.67822e-37	1.000000	4.67849e-37	1.000000
PAH10+CH3	1.47808e-37	1.000000	1.47817e-37	1.000000
rad54	1.20706e-37	1.000000	1.20713e-37	1.000000
rad43	3.45422e-38	1.000000	3.45442e-38	1.000000
rad62	2.49140e-40	1.000000	2.49154e-40	1.000000
rad51	6.86075e-43	1.000000	6.86114e-43	1.000000
rad70	1.42221e-45	1.000000	1.42229e-45	1.000000
PhcycC3H3_A+H	8.92339e-46	1.000000	8.92390e-46	1.000000
rad55	4.35337e-46	1.000000	4.35362e-46	1.000000
rad65	7.56016e-47	1.000000	7.56059e-47	1.000000
rad58	4.21547e-49	1.000000	4.21571e-49	1.000000
PAH1+H	2.91802e-49	1.000000	2.91819e-49	1.000000
rad34	5.60547e-51	1.000000	5.60579e-51	1.000000
rad42	4.91009e-53	1.000000	4.91037e-53	1.000000
rad41	2.84927e-53	1.000000	2.84943e-53	1.000000
rad47	2.05215e-57	1.000000	2.05227e-57	1.000000

0.100000000E-02 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54780e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999516	0.999516	0.999589	0.999589
rad6	0.000411101	0.999927	0.000411131	1.000000
Benzyl+C2H2	7.32944e-05	1.000000	0.000000	1.000000
rad2	5.52992e-08	1.000000	5.53033e-08	1.000000
rad7	3.11902e-08	1.000000	3.11925e-08	1.000000
rad11	7.78155e-09	1.000000	7.78212e-09	1.000000
rad1	3.67778e-09	1.000000	3.67805e-09	1.000000
rad10	2.82725e-09	1.000000	2.82745e-09	1.000000

rad3	6.03449e-10	1.00000	6.03494e-10	1.00000
rad28	4.30228e-10	1.00000	4.30260e-10	1.00000
rad30	3.24889e-10	1.00000	3.24913e-10	1.00000
rad4	3.09247e-10	1.00000	3.09270e-10	1.00000
rad13	1.70572e-10	1.00000	1.70584e-10	1.00000
rad26	1.32569e-10	1.00000	1.32578e-10	1.00000
rad35	8.83795e-11	1.00000	8.83859e-11	1.00000
PAH9+H	8.38974e-11	1.00000	8.39035e-11	1.00000
rad23	8.03956e-11	1.00000	8.04015e-11	1.00000
PhCHCCH2+H	1.99713e-11	1.00000	1.99727e-11	1.00000
PhCCH+CH3	1.86644e-11	1.00000	1.86658e-11	1.00000
rad15	1.00601e-11	1.00000	1.00608e-11	1.00000
rad38	8.73439e-12	1.00000	8.73503e-12	1.00000
PhCCCH3+H	6.92113e-12	1.00000	6.92164e-12	1.00000
rad45	6.81207e-13	1.00000	6.81257e-13	1.00000
rad20	4.35621e-13	1.00000	4.35653e-13	1.00000
rad33	3.26716e-13	1.00000	3.26740e-13	1.00000
rad21	2.75391e-13	1.00000	2.75411e-13	1.00000
rad22	5.07004e-14	1.00000	5.07041e-14	1.00000
rad36	4.23442e-14	1.00000	4.23473e-14	1.00000
rad8	2.23804e-14	1.00000	2.23820e-14	1.00000
rad27	1.77245e-14	1.00000	1.77258e-14	1.00000
rad25	1.05821e-14	1.00000	1.05828e-14	1.00000
Ph+MeAc	9.81943e-15	1.00000	9.82015e-15	1.00000
rad9	5.17408e-15	1.00000	5.17446e-15	1.00000
rad14	3.80036e-15	1.00000	3.80064e-15	1.00000
rad18	2.24624e-15	1.00000	2.24640e-15	1.00000
PAH7+H	2.18052e-15	1.00000	2.18067e-15	1.00000
rad46	6.49885e-16	1.00000	6.49933e-16	1.00000
rad12	2.52661e-16	1.00000	2.52679e-16	1.00000
rad39	1.50316e-16	1.00000	1.50327e-16	1.00000
Ph+Allene	1.32755e-16	1.00000	1.32764e-16	1.00000
rad31	1.44807e-18	1.00000	1.44817e-18	1.00000
rad60syn	8.66790e-19	1.00000	8.66853e-19	1.00000
rad60anti	1.24755e-19	1.00000	1.24764e-19	1.00000
PhCH2CCH+H	8.80541e-20	1.00000	8.80606e-20	1.00000
rad24	3.85563e-20	1.00000	3.85591e-20	1.00000
rad37	2.29398e-20	1.00000	2.29414e-20	1.00000
rad5	1.09829e-22	1.00000	1.09837e-22	1.00000
PAH3+H	1.00117e-23	1.00000	1.00124e-23	1.00000
rad59	4.07720e-24	1.00000	4.07750e-24	1.00000
rad50	2.47774e-25	1.00000	2.47792e-25	1.00000
rad19syn	3.69961e-29	1.00000	3.69989e-29	1.00000
rad52	2.29650e-31	1.00000	2.29667e-31	1.00000
rad54	8.48571e-35	1.00000	8.48633e-35	1.00000
PAH10+CH3	6.85768e-35	1.00000	6.85818e-35	1.00000
rad43	1.58619e-35	1.00000	1.58631e-35	1.00000
rad62	1.02449e-37	1.00000	1.02456e-37	1.00000
rad51	2.49779e-40	1.00000	2.49797e-40	1.00000
rad70	6.21412e-43	1.00000	6.21458e-43	1.00000
PhcycC3H3_A+H	3.64702e-43	1.00000	3.64728e-43	1.00000
rad55	1.80940e-43	1.00000	1.80954e-43	1.00000
rad65	2.95082e-44	1.00000	2.95103e-44	1.00000
rad58	1.66744e-46	1.00000	1.66756e-46	1.00000
PAH1+H	1.11511e-46	1.00000	1.11519e-46	1.00000
rad34	2.25289e-48	1.00000	2.25305e-48	1.00000
rad42	2.59156e-50	1.00000	2.59175e-50	1.00000
rad41	1.56743e-50	1.00000	1.56755e-50	1.00000
rad47	1.04881e-54	1.00000	1.04889e-54	1.00000

0.100000000E-02 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69315e-29 (1.00)	4.69271e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999461	0.999461	0.999555	0.999555
rad6	0.000444675	0.999906	0.000444717	1.000000
Benzyl+C2H2	9.42335e-05	1.000000	0.000000	1.000000
rad2	7.13588e-08	1.000000	7.13655e-08	1.000000
rad7	3.37345e-08	1.000000	3.37376e-08	1.000000
rad11	8.40914e-09	1.000000	8.40993e-09	1.000000
rad1	4.77724e-09	1.000000	4.77769e-09	1.000000
rad10	3.65044e-09	1.000000	3.65078e-09	1.000000
rad28	8.87711e-10	1.000000	8.87795e-10	1.000000
rad3	7.07252e-10	1.000000	7.07318e-10	1.000000
rad30	5.55151e-10	1.000000	5.55203e-10	1.000000
rad4	3.63107e-10	1.000000	3.63141e-10	1.000000

rad26	2.72953e-10	1.00000	2.72979e-10	1.000000
rad13	1.85138e-10	1.00000	1.85156e-10	1.000000
PAH9+H	1.20384e-10	1.00000	1.20395e-10	1.000000
rad35	1.18742e-10	1.00000	1.18754e-10	1.000000
rad23	6.29505e-11	1.00000	6.29564e-11	1.000000
PhCCH+CH3	6.14532e-11	1.00000	6.14590e-11	1.000000
PhCHCCH2+H	6.07641e-11	1.00000	6.07698e-11	1.000000
PhCCCH3+H	2.30382e-11	1.00000	2.30404e-11	1.000000
rad15	2.12609e-11	1.00000	2.12629e-11	1.000000
rad38	1.40157e-11	1.00000	1.40170e-11	1.000000
rad45	5.31893e-13	1.00000	5.31943e-13	1.000000
rad20	3.91626e-13	1.00000	3.91663e-13	1.000000
rad33	3.55201e-13	1.00000	3.55234e-13	1.000000
rad21	2.47993e-13	1.00000	2.48017e-13	1.000000
rad8	8.74586e-14	1.00000	8.74669e-14	1.000000
Ph+MeAc	5.33517e-14	1.00000	5.33567e-14	1.000000
rad22	4.02874e-14	1.00000	4.02912e-14	1.000000
rad36	3.31107e-14	1.00000	3.31138e-14	1.000000
rad27	2.57200e-14	1.00000	2.57224e-14	1.000000
rad9	2.30670e-14	1.00000	2.30691e-14	1.000000
rad25	1.70675e-14	1.00000	1.70691e-14	1.000000
PAH7+H	1.02808e-14	1.00000	1.02817e-14	1.000000
rad14	6.97162e-15	1.00000	6.97228e-15	1.000000
rad18	1.99564e-15	1.00000	1.99583e-15	1.000000
rad46	1.92078e-15	1.00000	1.92096e-15	1.000000
rad12	1.20157e-15	1.00000	1.20169e-15	1.000000
Ph+Allene	8.80136e-16	1.00000	8.80219e-16	1.000000
rad39	8.03749e-16	1.00000	8.03825e-16	1.000000
rad60syn	5.00213e-18	1.00000	5.00260e-18	1.000000
rad31	1.92491e-18	1.00000	1.92509e-18	1.000000
PhCH2CCH+H	8.98862e-19	1.00000	8.98946e-19	1.000000
rad60anti	8.04472e-19	1.00000	8.04548e-19	1.000000
rad37	2.24128e-19	1.00000	2.24149e-19	1.000000
rad24	3.56505e-20	1.00000	3.56539e-20	1.000000
rad5	1.25666e-21	1.00000	1.25678e-21	1.000000
PAH3+H	1.31586e-22	1.00000	1.31598e-22	1.000000
rad59	5.19539e-23	1.00000	5.19588e-23	1.000000
rad50	3.08519e-24	1.00000	3.08549e-24	1.000000
rad19syn	4.60705e-27	1.00000	4.60748e-27	1.000000
rad52	1.37703e-29	1.00000	1.37716e-29	1.000000
rad54	7.83749e-32	1.00000	7.83823e-32	1.000000
PAH10+CH3	5.31534e-32	1.00000	5.31584e-32	1.000000
rad43	1.22459e-32	1.00000	1.22470e-32	1.000000
rad62	7.27661e-35	1.00000	7.27730e-35	1.000000
rad51	1.16151e-37	1.00000	1.16162e-37	1.000000
rad70	4.24447e-40	1.00000	4.24487e-40	1.000000
PhcycC3H3_A+H	2.21126e-40	1.00000	2.21147e-40	1.000000
rad55	1.14138e-40	1.00000	1.14148e-40	1.000000
rad65	9.25758e-42	1.00000	9.25845e-42	1.000000
rad58	9.11091e-44	1.00000	9.11177e-44	1.000000
PAH1+H	2.99195e-44	1.00000	2.99224e-44	1.000000
rad34	5.86360e-46	1.00000	5.86415e-46	1.000000
rad42	9.13769e-48	1.00000	9.13855e-48	1.000000
rad41	5.85189e-48	1.00000	5.85244e-48	1.000000
rad47	3.85366e-52	1.00000	3.85402e-52	1.000000

0.100000000E-02 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.16530e-28 (1.00)	3.16492e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999398	0.999398	0.999518	0.999518
rad6	0.000481422	0.999879	0.000481480	0.999999
Benzyl+C2H2	0.000120669	1.00000	0.00000	0.999999
rad2	9.02969e-08	1.00000	9.03078e-08	1.000000
rad7	3.65265e-08	1.00000	3.65309e-08	1.000000
rad11	9.10002e-09	1.00000	9.10112e-09	1.000000
rad1	6.08853e-09	1.00000	6.08926e-09	1.000000
rad10	4.62255e-09	1.00000	4.62311e-09	1.000000
rad28	1.71801e-09	1.00000	1.71821e-09	1.000000
rad30	9.09216e-10	1.00000	9.09325e-10	1.000000
rad3	8.27337e-10	1.00000	8.27437e-10	1.000000
rad26	5.21564e-10	1.00000	5.21626e-10	1.000000
rad4	4.25611e-10	1.00000	4.25662e-10	1.000000
rad13	2.01156e-10	1.00000	2.01180e-10	1.000000
PhCCH+CH3	1.82431e-10	1.00000	1.82453e-10	1.000000
PAH9+H	1.71235e-10	1.00000	1.71256e-10	1.000000

PhCHCCH2+H	1.68468e-10	1.00000	1.68488e-10	1.000000
rad35	1.59218e-10	1.00000	1.59238e-10	1.000000
PhCCCH3+H	6.88653e-11	1.00000	6.88736e-11	1.000000
rad23	5.01662e-11	1.00000	5.01722e-11	1.000000
rad15	4.19721e-11	1.00000	4.19772e-11	1.000000
rad38	2.19792e-11	1.00000	2.19819e-11	1.000000
rad45	4.22891e-13	1.00000	4.22942e-13	1.000000
rad33	3.86602e-13	1.00000	3.86648e-13	1.000000
rad20	3.52936e-13	1.00000	3.52979e-13	1.000000
rad8	2.99924e-13	1.00000	2.99960e-13	1.000000
Ph+MeAc	2.44909e-13	1.00000	2.44938e-13	1.000000
rad21	2.23896e-13	1.00000	2.23923e-13	1.000000
rad9	8.88203e-14	1.00000	8.88310e-14	1.000000
PAH7+H	4.15712e-14	1.00000	4.15762e-14	1.000000
rad27	3.58075e-14	1.00000	3.58118e-14	1.000000
rad22	3.23779e-14	1.00000	3.23818e-14	1.000000
rad36	2.63723e-14	1.00000	2.63755e-14	1.000000
rad25	2.58304e-14	1.00000	2.58335e-14	1.000000
rad14	1.18682e-14	1.00000	1.18697e-14	1.000000
rad46	5.13678e-15	1.00000	5.13740e-15	1.000000
rad12	4.88205e-15	1.00000	4.88264e-15	1.000000
Ph+Allene	4.82656e-15	1.00000	4.82714e-15	1.000000
rad39	3.63578e-15	1.00000	3.63622e-15	1.000000
rad18	1.77663e-15	1.00000	1.77685e-15	1.000000
rad60syn	2.40342e-17	1.00000	2.40371e-17	1.000000
PhCH2CCH+H	7.23745e-18	1.00000	7.23832e-18	1.000000
rad60anti	4.26374e-18	1.00000	4.26426e-18	1.000000
rad31	2.52916e-18	1.00000	2.52947e-18	1.000000
rad37	1.70761e-18	1.00000	1.70782e-18	1.000000
rad24	3.36173e-20	1.00000	3.36214e-20	1.000000
rad5	1.11497e-20	1.00000	1.11511e-20	1.000000
PAH3+H	1.32088e-21	1.00000	1.32104e-21	1.000000
rad59	5.06252e-22	1.00000	5.06313e-22	1.000000
rad50	2.96583e-23	1.00000	2.96619e-23	1.000000
rad19syn	1.21162e-25	1.00000	1.21177e-25	1.000000
rad54	5.41903e-28	1.00000	5.41968e-28	1.000000
PAH10+CH3	3.64793e-28	1.00000	3.64837e-28	1.000000
rad52	3.13002e-28	1.00000	3.13040e-28	1.000000
rad43	8.87530e-29	1.00000	8.87637e-29	1.000000
rad62	4.14027e-30	1.00000	4.14077e-30	1.000000
rad51	2.56172e-31	1.00000	2.56203e-31	1.000000
rad70	8.13610e-37	1.00000	8.13708e-37	1.000000
PhcycC3H3_A+H	4.05353e-37	1.00000	4.05402e-37	1.000000
rad55	2.13037e-37	1.00000	2.13062e-37	1.000000
rad65	5.53454e-39	1.00000	5.53521e-39	1.000000
rad58	1.57074e-40	1.00000	1.57093e-40	1.000000
PAH1+H	1.37628e-41	1.00000	1.37645e-41	1.000000
rad34	1.90669e-43	1.00000	1.90692e-43	1.000000
rad42	2.97591e-45	1.00000	2.97627e-45	1.000000
rad41	2.02959e-45	1.00000	2.02983e-45	1.000000
rad47	1.45439e-49	1.00000	1.45457e-49	1.000000

0.100000000E-02 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76088e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999325	0.999325	0.999478	0.999478
rad6	0.000521273	0.999846	0.000521354	0.999999
Benzyl+C2H2	0.000153872	1.00000	0.00000	0.999999
rad2	1.12083e-07	1.00000	1.12101e-07	0.999999
rad7	3.95624e-08	1.00000	3.95685e-08	1.000000
rad11	9.85312e-09	1.00000	9.85464e-09	1.000000
rad1	7.61650e-09	1.00000	7.61767e-09	1.000000
rad10	5.74274e-09	1.00000	5.74362e-09	1.000000
rad28	3.13227e-09	1.00000	3.13275e-09	1.000000
rad30	1.43747e-09	1.00000	1.43769e-09	1.000000
rad3	9.63566e-10	1.00000	9.63714e-10	1.000000
rad26	9.31773e-10	1.00000	9.31916e-10	1.000000
rad4	4.96776e-10	1.00000	4.96853e-10	1.000000
PhCCH+CH3	4.94458e-10	1.00000	4.94534e-10	1.000000
PhCHCCH2+H	4.30152e-10	1.00000	4.30218e-10	1.000000
PAH9+H	2.41735e-10	1.00000	2.41772e-10	1.000000
rad13	2.18618e-10	1.00000	2.18652e-10	1.000000
rad35	2.13012e-10	1.00000	2.13045e-10	1.000000
PhCCCH3+H	1.87348e-10	1.00000	1.87377e-10	1.000000
rad15	7.82570e-11	1.00000	7.82691e-11	1.000000

rad23	4.07263e-11	1.00000	4.07326e-11	1.000000
rad38	3.38042e-11	1.00000	3.38094e-11	1.000000
Ph+MeAc	9.72781e-13	1.00000	9.72930e-13	1.000000
rad8	9.18983e-13	1.00000	9.19124e-13	1.000000
rad33	4.20933e-13	1.00000	4.20998e-13	1.000000
rad45	3.42687e-13	1.00000	3.42740e-13	1.000000
rad20	3.18772e-13	1.00000	3.18821e-13	1.000000
rad9	3.01614e-13	1.00000	3.01660e-13	1.000000
rad21	2.02614e-13	1.00000	2.02645e-13	1.000000
PAH7+H	1.47354e-13	1.00000	1.47377e-13	1.000000
rad27	4.80731e-14	1.00000	4.80805e-14	1.000000
rad25	3.70397e-14	1.00000	3.70454e-14	1.000000
rad22	2.63044e-14	1.00000	2.63084e-14	1.000000
Ph+Allene	2.25113e-14	1.00000	2.25147e-14	1.000000
rad36	2.14168e-14	1.00000	2.14201e-14	1.000000
rad14	1.89450e-14	1.00000	1.89479e-14	1.000000
rad12	1.73315e-14	1.00000	1.73342e-14	1.000000
rad39	1.42499e-14	1.00000	1.42520e-14	1.000000
rad46	1.26316e-14	1.00000	1.26335e-14	1.000000
rad18	1.58430e-15	1.00000	1.58454e-15	1.000000
rad60syn	9.88937e-17	1.00000	9.89089e-17	1.000000
PhCH2CCH+H	4.76094e-17	1.00000	4.76167e-17	1.000000
rad60anti	1.91399e-17	1.00000	1.91429e-17	1.000000
rad37	1.05306e-17	1.00000	1.05322e-17	1.000000
rad31	3.28405e-18	1.00000	3.28455e-18	1.000000
rad5	7.96425e-20	1.00000	7.96547e-20	1.000000
rad24	3.22564e-20	1.00000	3.22614e-20	1.000000
PAH3+H	1.05430e-20	1.00000	1.05447e-20	1.000000
rad59	3.92786e-21	1.00000	3.92847e-21	1.000000
rad50	2.28787e-22	1.00000	2.28822e-22	1.000000
rad19syn	1.80869e-24	1.00000	1.80897e-24	1.000000
rad54	1.36347e-26	1.00000	1.36368e-26	1.000000
PAH10+CH3	9.34437e-27	1.00000	9.34581e-27	1.000000
rad52	4.44005e-27	1.00000	4.44073e-27	1.000000
rad43	2.28928e-27	1.00000	2.28963e-27	1.000000
rad62	2.67451e-28	1.00000	2.67493e-28	1.000000
rad51	1.45622e-29	1.00000	1.45645e-29	1.000000
rad65	1.67706e-32	1.00000	1.67732e-32	1.000000
rad70	1.89863e-33	1.00000	1.89892e-33	1.000000
PhcycC3H3_A+H	9.50147e-34	1.00000	9.50294e-34	1.000000
rad55	4.99556e-34	1.00000	4.99633e-34	1.000000
rad58	3.67054e-37	1.00000	3.67111e-37	1.000000
PAH1+H	2.14465e-38	1.00000	2.14498e-38	1.000000
rad34	2.05567e-40	1.00000	2.05599e-40	1.000000
rad42	6.98688e-43	1.00000	6.98796e-43	1.000000
rad41	4.81191e-43	1.00000	4.81266e-43	1.000000
rad47	4.81375e-47	1.00000	4.81449e-47	1.000000

0.100000000E-02 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.30956e-27 (1.00)	8.30794e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999240	0.999240	0.999436	0.999436
rad6	0.000564011	0.999804	0.000564122	1.000000
Benzyl+C2H2	0.000195350	0.999999	0.000000	1.000000
rad2	1.36551e-07	0.999999	1.36578e-07	1.000000
rad7	4.28270e-08	1.000000	4.28354e-08	1.000000
rad11	1.06646e-08	1.000000	1.06667e-08	1.000000
rad1	9.35771e-09	1.000000	9.35954e-09	1.000000
rad10	7.00324e-09	1.000000	7.00461e-09	1.000000
rad28	5.40204e-09	1.000000	5.40309e-09	1.000000
rad30	2.20605e-09	1.000000	2.20648e-09	1.000000
rad26	1.56654e-09	1.000000	1.56684e-09	1.000000
PhCCH+CH3	1.23648e-09	1.000000	1.23672e-09	1.000000
rad3	1.11503e-09	1.000000	1.11525e-09	1.000000
PhCHCCH2+H	1.02056e-09	1.000000	1.02076e-09	1.000000
rad4	5.76235e-10	1.000000	5.76348e-10	1.000000
PhCCCH3+H	4.69067e-10	1.000000	4.69158e-10	1.000000
PAH9+H	3.38932e-10	1.000000	3.38998e-10	1.000000
rad35	2.84238e-10	1.000000	2.84293e-10	1.000000
rad13	2.37458e-10	1.000000	2.37505e-10	1.000000
rad15	1.39019e-10	1.000000	1.39047e-10	1.000000
rad38	5.11249e-11	1.000000	5.11349e-11	1.000000
rad23	3.37385e-11	1.000000	3.37451e-11	1.000000
Ph+MeAc	3.40944e-12	1.000000	3.41011e-12	1.000000
rad8	2.55336e-12	1.000000	2.55386e-12	1.000000

rad9	9.18795e-13	1.000000	9.18974e-13	1.00000
PAH7+H	4.66180e-13	1.000000	4.66272e-13	1.00000
rad33	4.58092e-13	1.000000	4.58182e-13	1.00000
rad20	2.88506e-13	1.000000	2.88562e-13	1.00000
rad45	2.83510e-13	1.000000	2.83565e-13	1.00000
rad21	1.83759e-13	1.000000	1.83795e-13	1.00000
Ph+Allene	9.13482e-14	1.000000	9.13660e-14	1.00000
rad27	6.25002e-14	1.000000	6.25124e-14	1.00000
rad12	5.47569e-14	1.000000	5.47676e-14	1.00000
rad25	5.07187e-14	1.000000	5.07286e-14	1.00000
rad39	4.93493e-14	1.000000	4.93590e-14	1.00000
rad46	2.89298e-14	1.000000	2.89354e-14	1.00000
rad14	2.85989e-14	1.000000	2.86045e-14	1.00000
rad22	2.16025e-14	1.000000	2.16067e-14	1.00000
rad36	1.77638e-14	1.000000	1.77672e-14	1.00000
rad18	1.41476e-15	1.000000	1.41504e-15	1.00000
rad60syn	3.56493e-16	1.000000	3.56563e-16	1.00000
PhCH2CCH+H	2.63335e-16	1.000000	2.63387e-16	1.00000
rad60anti	7.45599e-17	1.000000	7.45745e-17	1.00000
rad37	5.41800e-17	1.000000	5.41906e-17	1.00000
rad31	4.21551e-18	1.000000	4.21633e-18	1.00000
rad5	4.72306e-19	1.000000	4.72398e-19	1.00000
PAH3+H	6.92256e-20	1.000000	6.92392e-20	1.00000
rad24	3.14358e-20	1.000000	3.14420e-20	1.00000
rad59	2.50950e-20	1.000000	2.50999e-20	1.00000
rad50	1.46311e-21	1.000000	1.46339e-21	1.00000
rad19syn	1.99141e-23	1.000000	1.99179e-23	1.00000
rad54	1.93299e-25	1.000000	1.93337e-25	1.00000
PAH10+CH3	1.32629e-25	1.000000	1.32655e-25	1.00000
rad52	4.73452e-26	1.000000	4.73544e-26	1.00000
rad43	3.22995e-26	1.000000	3.23058e-26	1.00000
rad62	4.85679e-27	1.000000	4.85774e-27	1.00000
rad51	2.76075e-28	1.000000	2.76129e-28	1.00000
rad70	4.14100e-29	1.000000	4.14181e-29	1.00000
PhcycC3H3_A+H	3.66944e-29	1.000000	3.67016e-29	1.00000
rad55	1.44832e-29	1.000000	1.44861e-29	1.00000
rad58	1.88400e-30	1.000000	1.88436e-30	1.00000
rad65	8.86376e-31	1.000000	8.86549e-31	1.00000
PAH1+H	5.49598e-35	1.000000	5.49706e-35	1.00000
rad34	5.09734e-37	1.000000	5.09833e-37	1.00000
rad42	2.01221e-40	1.000000	2.01260e-40	1.00000
rad41	9.12804e-41	1.000000	9.12982e-41	1.00000
rad47	4.18061e-44	1.000000	4.18143e-44	1.00000

0.100000000E-02 Pa, 220.000000 K

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

Total | 3.40057e-26 (1.00) | 3.39973e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999144	0.999144	0.999390	0.999390
rad6	0.000609240	0.999753	0.000609390	0.999999
Benzyl+C2H2	0.000246879	1.00000	0.00000	0.999999
rad2	1.63390e-07	1.00000	1.63430e-07	1.000000
rad7	4.62917e-08	1.00000	4.63031e-08	1.000000
rad11	1.15275e-08	1.00000	1.15303e-08	1.000000
rad1	1.12997e-08	1.00000	1.13025e-08	1.000000
rad28	8.84747e-09	1.00000	8.84966e-09	1.000000
rad10	8.38907e-09	1.00000	8.39115e-09	1.000000
rad30	3.30059e-09	1.00000	3.30141e-09	1.000000
PhCCH+CH3	2.87820e-09	1.00000	2.87891e-09	1.000000
rad26	2.49301e-09	1.00000	2.49363e-09	1.000000
PhCHCCH2+H	2.26710e-09	1.00000	2.26766e-09	1.000000
rad3	1.28001e-09	1.00000	1.28033e-09	1.000000
PhCCCH3+H	1.09102e-09	1.00000	1.09129e-09	1.000000
rad4	6.63218e-10	1.00000	6.63382e-10	1.000000
PAH9+H	4.72148e-10	1.00000	4.72264e-10	1.000000
rad35	3.78140e-10	1.00000	3.78233e-10	1.000000
rad13	2.57533e-10	1.00000	2.57596e-10	1.000000
rad15	2.36957e-10	1.00000	2.37015e-10	1.000000
rad38	7.61813e-11	1.00000	7.62001e-11	1.000000
rad23	2.85899e-11	1.00000	2.85969e-11	1.000000
Ph+MeAc	1.07162e-11	1.00000	1.07188e-11	1.000000
rad8	6.51249e-12	1.00000	6.51410e-12	1.000000
rad9	2.54648e-12	1.00000	2.54711e-12	1.000000
PAH7+H	1.33612e-12	1.00000	1.33645e-12	1.000000
rad33	4.97834e-13	1.00000	4.97957e-13	1.000000
Ph+Allene	3.28589e-13	1.00000	3.28670e-13	1.000000

rad20	2.61628e-13	1.00000	2.61692e-13	1.000000
rad45	2.40041e-13	1.00000	2.40101e-13	1.000000
rad21	1.67011e-13	1.00000	1.67052e-13	1.000000
rad12	1.56317e-13	1.00000	1.56356e-13	1.000000
rad39	1.53486e-13	1.00000	1.53524e-13	1.000000
rad27	7.89614e-14	1.00000	7.89809e-14	1.000000
rad25	6.67388e-14	1.00000	6.67553e-14	1.000000
rad46	6.23497e-14	1.00000	6.23650e-14	1.000000
rad14	4.11137e-14	1.00000	4.11238e-14	1.000000
rad22	1.79433e-14	1.00000	1.79478e-14	1.000000
rad36	1.50853e-14	1.00000	1.50890e-14	1.000000
rad18	1.26488e-15	1.00000	1.26519e-15	1.000000
PhCH2CCH+H	1.25387e-15	1.00000	1.25418e-15	1.000000
rad60syn	1.14694e-15	1.00000	1.14722e-15	1.000000
rad60anti	2.57101e-16	1.00000	2.57164e-16	1.000000
rad37	2.38416e-16	1.00000	2.38475e-16	1.000000
rad31	5.35285e-18	1.00000	5.35417e-18	1.000000
rad5	2.38451e-18	1.00000	2.38510e-18	1.000000
PAH3+H	3.84236e-19	1.00000	3.84331e-19	1.000000
rad59	1.35656e-19	1.00000	1.35690e-19	1.000000
rad24	3.10703e-20	1.00000	3.10779e-20	1.000000
rad50	7.96273e-21	1.00000	7.96470e-21	1.000000
rad19syn	1.75462e-22	1.00000	1.75505e-22	1.000000
rad54	2.06934e-24	1.00000	2.06985e-24	1.000000
PAH10+CH3	1.41839e-24	1.00000	1.41874e-24	1.000000
rad52	4.06664e-25	1.00000	4.06764e-25	1.000000
rad43	3.43773e-25	1.00000	3.43858e-25	1.000000
rad62	5.95135e-26	1.00000	5.95282e-26	1.000000
rad51	3.50327e-27	1.00000	3.50413e-27	1.000000
PhcycC3H3_A+H	9.85008e-28	1.00000	9.85251e-28	1.000000
rad70	8.95654e-28	1.00000	8.95875e-28	1.000000
rad55	3.37413e-28	1.00000	3.37496e-28	1.000000
rad58	5.59617e-29	1.00000	5.59755e-29	1.000000
rad65	1.55267e-29	1.00000	1.55305e-29	1.000000
PAH1+H	3.10630e-30	1.00000	3.10707e-30	1.000000
rad34	2.03217e-34	1.00000	2.03267e-34	1.000000
rad42	4.74813e-38	1.00000	4.74930e-38	1.000000
rad47	1.49497e-38	1.00000	1.49534e-38	1.000000
rad41	1.11716e-38	1.00000	1.11743e-38	1.000000

0.100000000E-02 Pa, 230.000000 K

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

Total | 1.22972e-25 (1.00) | 1.22933e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999033	0.999033	0.999343	0.999343
rad6	0.000656363	0.999689	0.000656567	1.000000
Benzyl+C2H2	0.000310538	1.000000	0.00000	1.000000
rad2	1.92153e-07	1.00000	1.92212e-07	1.000000
rad7	4.99129e-08	1.00000	4.99284e-08	1.000000
rad28	1.38122e-08	1.00000	1.38165e-08	1.000000
rad1	1.34209e-08	1.00000	1.34251e-08	1.000000
rad11	1.24309e-08	1.00000	1.24347e-08	1.000000
rad10	9.87814e-09	1.00000	9.88121e-09	1.000000
PhCCH+CH3	6.28384e-09	1.00000	6.28579e-09	1.000000
rad30	4.83074e-09	1.00000	4.83224e-09	1.000000
PhCHCCH2+H	4.74655e-09	1.00000	4.74803e-09	1.000000
rad26	3.77483e-09	1.00000	3.77601e-09	1.000000
PhCCCH3+H	2.37632e-09	1.00000	2.37706e-09	1.000000
rad3	1.45599e-09	1.00000	1.45645e-09	1.000000
rad4	7.56532e-10	1.00000	7.56767e-10	1.000000
PAH9+H	6.53615e-10	1.00000	6.53818e-10	1.000000
rad35	5.01365e-10	1.00000	5.01521e-10	1.000000
rad15	3.89736e-10	1.00000	3.89857e-10	1.000000
rad13	2.78614e-10	1.00000	2.78700e-10	1.000000
rad38	1.12012e-10	1.00000	1.12047e-10	1.000000
Ph+MeAc	3.06158e-11	1.00000	3.06253e-11	1.000000
rad23	2.48579e-11	1.00000	2.48657e-11	1.000000
rad8	1.54051e-11	1.00000	1.54099e-11	1.000000
rad9	6.49714e-12	1.00000	6.49916e-12	1.000000
PAH7+H	3.51272e-12	1.00000	3.51381e-12	1.000000
Ph+Allene	1.06412e-12	1.00000	1.06445e-12	1.000000
rad33	5.39749e-13	1.00000	5.39916e-13	1.000000
rad39	4.34573e-13	1.00000	4.34708e-13	1.000000
rad12	4.08350e-13	1.00000	4.08477e-13	1.000000
rad20	2.37712e-13	1.00000	2.37786e-13	1.000000
rad45	2.08642e-13	1.00000	2.08707e-13	1.000000

rad21	1.52109e-13	1.00000	1.52156e-13	1.000000
rad46	1.27514e-13	1.00000	1.27553e-13	1.000000
rad27	9.72183e-14	1.00000	9.72485e-14	1.000000
rad25	8.48270e-14	1.00000	8.48534e-14	1.000000
rad14	5.66137e-14	1.00000	5.66313e-14	1.000000
rad22	1.50911e-14	1.00000	1.50957e-14	1.000000
rad36	1.31575e-14	1.00000	1.31616e-14	1.000000
PhCH2CCH+H	5.24043e-15	1.00000	5.24206e-15	1.000000
rad60syn	3.34408e-15	1.00000	3.34512e-15	1.000000
rad18	1.13207e-15	1.00000	1.13242e-15	1.000000
rad37	9.15950e-16	1.00000	9.16235e-16	1.000000
rad60anti	7.97703e-16	1.00000	7.97951e-16	1.000000
rad5	1.04634e-17	1.00000	1.04666e-17	1.000000
rad31	6.72968e-18	1.00000	6.73177e-18	1.000000
PAH3+H	1.84342e-18	1.00000	1.84399e-18	1.000000
rad59	6.34403e-19	1.00000	6.34600e-19	1.000000
rad50	3.76769e-20	1.00000	3.76886e-20	1.000000
rad24	3.11082e-20	1.00000	3.11179e-20	1.000000
rad19syn	1.27797e-21	1.00000	1.27837e-21	1.000000
rad54	1.78898e-23	1.00000	1.78954e-23	1.000000
PAH10+CH3	1.22201e-23	1.00000	1.22239e-23	1.000000
rad43	2.94505e-24	1.00000	2.94597e-24	1.000000
rad52	2.90440e-24	1.00000	2.90530e-24	1.000000
rad62	5.72704e-25	1.00000	5.72882e-25	1.000000
rad51	3.51900e-26	1.00000	3.52009e-26	1.000000
PhcycC3H3_A+H	1.69100e-26	1.00000	1.69153e-26	1.000000
rad70	1.30264e-26	1.00000	1.30304e-26	1.000000
rad55	5.17432e-27	1.00000	5.17593e-27	1.000000
rad58	1.02413e-27	1.00000	1.02444e-27	1.000000
PAH1+H	2.23371e-28	1.00000	2.23440e-28	1.000000
rad65	2.00221e-28	1.00000	2.00283e-28	1.000000
rad34	1.06637e-29	1.00000	1.06670e-29	1.000000
rad42	4.43790e-32	1.00000	4.43927e-32	1.000000
rad41	7.74211e-33	1.00000	7.74451e-33	1.000000
rad47	2.02036e-37	1.00000	2.02098e-37	1.000000

0.100000000E-02 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.98936e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998906	0.998906	0.999295	0.999295
rad6	0.000704582	0.999611	0.000704856	1.000000
Benzyl+C2H2	0.000388738	0.999999	0.000000	1.000000
rad2	2.22263e-07	1.000000	2.22349e-07	1.000000
rad7	5.36313e-08	1.000000	5.36522e-08	1.000000
rad28	2.06266e-08	1.000000	2.06346e-08	1.000000
rad1	1.56907e-08	1.000000	1.56968e-08	1.000000
rad11	1.33601e-08	1.000000	1.33653e-08	1.000000
PhCCH+CH3	1.29521e-08	1.000000	1.29572e-08	1.000000
rad10	1.14418e-08	1.000000	1.14462e-08	1.000000
PhCHCCH2+H	9.42010e-09	1.000000	9.42376e-09	1.000000
rad30	6.93514e-09	1.000000	6.93784e-09	1.000000
rad26	5.46326e-09	1.000000	5.46539e-09	1.000000
PhCCCH3+H	4.88012e-09	1.000000	4.88202e-09	1.000000
rad3	1.63970e-09	1.000000	1.64034e-09	1.000000
PAH9+H	8.99256e-10	1.000000	8.99606e-10	1.000000
rad4	8.54602e-10	1.000000	8.54934e-10	1.000000
rad35	6.62279e-10	1.000000	6.62537e-10	1.000000
rad15	6.21420e-10	1.000000	6.21662e-10	1.000000
rad13	3.00383e-10	1.000000	3.00500e-10	1.000000
rad38	1.62697e-10	1.000000	1.62760e-10	1.000000
Ph+MeAc	8.04118e-11	1.000000	8.04431e-11	1.000000
rad8	3.40900e-11	1.000000	3.41033e-11	1.000000
rad23	2.22544e-11	1.000000	2.22631e-11	1.000000
rad9	1.54119e-11	1.000000	1.54179e-11	1.000000
PAH7+H	8.56050e-12	1.000000	8.56383e-12	1.000000
Ph+Allene	3.14300e-12	1.000000	3.14422e-12	1.000000
rad39	1.13295e-12	1.000000	1.13339e-12	1.000000
rad12	9.86562e-13	1.000000	9.86946e-13	1.000000
rad33	5.83251e-13	1.000000	5.83478e-13	1.000000
rad46	2.49161e-13	1.000000	2.49258e-13	1.000000
rad20	2.16403e-13	1.000000	2.16488e-13	1.000000
rad45	1.86841e-13	1.000000	1.86914e-13	1.000000
rad21	1.38830e-13	1.000000	1.38884e-13	1.000000
rad27	1.16928e-13	1.000000	1.16974e-13	1.000000
rad25	1.04585e-13	1.000000	1.04625e-13	1.000000

rad14	7.50342e-14	1.000000	7.50633e-14	1.00000
PhCH2CCH+H	1.95383e-14	1.000000	1.95459e-14	1.00000
rad22	1.28751e-14	1.000000	1.28801e-14	1.00000
rad36	1.18295e-14	1.000000	1.18341e-14	1.00000
rad60syn	8.94901e-15	1.000000	8.95249e-15	1.00000
rad37	3.12535e-15	1.000000	3.12657e-15	1.00000
rad60anti	2.25750e-15	1.000000	2.25838e-15	1.00000
rad18	1.01418e-15	1.000000	1.01458e-15	1.00000
rad5	4.06021e-17	1.000000	4.06179e-17	1.00000
rad31	8.38521e-18	1.000000	8.38847e-18	1.00000
PAH3+H	7.78735e-18	1.000000	7.79037e-18	1.00000
rad59	2.61453e-18	1.000000	2.61554e-18	1.00000
rad50	1.57772e-19	1.000000	1.57833e-19	1.00000
rad24	3.15242e-20	1.000000	3.15365e-20	1.00000
rad19syn	7.88182e-21	1.000000	7.88489e-21	1.00000
rad54	1.28239e-22	1.000000	1.28289e-22	1.00000
PAH10+CH3	8.72675e-23	1.000000	8.73014e-23	1.00000
rad43	2.09172e-23	1.000000	2.09253e-23	1.00000
rad52	1.76500e-23	1.000000	1.76569e-23	1.00000
rad62	4.46977e-24	1.000000	4.47151e-24	1.00000
rad51	2.84558e-25	1.000000	2.84669e-25	1.00000
PhcycC3H3_A+H	1.83221e-25	1.000000	1.83292e-25	1.00000
rad70	1.30244e-25	1.000000	1.30294e-25	1.00000
rad55	5.31008e-26	1.000000	5.31214e-26	1.00000
rad58	1.13974e-26	1.000000	1.14018e-26	1.00000
PAH1+H	3.48634e-27	1.000000	3.48770e-27	1.00000
rad65	1.89680e-27	1.000000	1.89754e-27	1.00000
rad34	2.01897e-28	1.000000	2.01976e-28	1.00000
rad42	2.62469e-30	1.000000	2.62571e-30	1.00000
rad41	7.55533e-31	1.000000	7.55827e-31	1.00000
rad47	1.87580e-36	1.000000	1.87653e-36	1.00000

0.100000000E-02 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17706e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998762	0.998762	0.999246	0.999246
rad6	0.000752901	0.999515	0.000753266	0.999999
Benzyl+C2H2	0.000484256	0.999999	0.00000	0.999999
rad2	2.53035e-07	0.999999	2.53158e-07	1.000000
rad7	5.73729e-08	0.999999	5.74007e-08	1.000000
rad28	2.95636e-08	0.999999	2.95779e-08	1.000000
PhCCH+CH3	2.53482e-08	1.000000	2.53605e-08	1.000000
rad1	1.80702e-08	1.000000	1.80790e-08	1.000000
PhCHCCH2+H	1.78113e-08	1.000000	1.78200e-08	1.000000
rad11	1.42968e-08	1.000000	1.43037e-08	1.000000
rad10	1.30457e-08	1.000000	1.30520e-08	1.000000
rad30	9.78721e-09	1.000000	9.79195e-09	1.000000
PhCCCH3+H	9.50564e-09	1.000000	9.51024e-09	1.000000
rad26	7.58850e-09	1.000000	7.59217e-09	1.000000
rad3	1.82716e-09	1.000000	1.82805e-09	1.000000
PAH9+H	1.22964e-09	1.000000	1.23023e-09	1.000000
rad15	9.64169e-10	1.000000	9.64636e-10	1.000000
rad4	9.55477e-10	1.000000	9.55940e-10	1.000000
rad35	8.71339e-10	1.000000	8.71762e-10	1.000000
rad13	3.22436e-10	1.000000	3.22593e-10	1.000000
rad38	2.33659e-10	1.000000	2.33772e-10	1.000000
Ph+MeAc	1.96030e-10	1.000000	1.96125e-10	1.000000
rad8	7.10941e-11	1.000000	7.11285e-11	1.000000
rad9	3.42749e-11	1.000000	3.42915e-11	1.000000
rad23	2.05899e-11	1.000000	2.05999e-11	1.000000
PAH7+H	1.95104e-11	1.000000	1.95198e-11	1.000000
Ph+Allene	8.55956e-12	1.000000	8.56371e-12	1.000000
rad39	2.74601e-12	1.000000	2.74734e-12	1.000000
rad12	2.22421e-12	1.000000	2.22528e-12	1.000000
rad33	6.27585e-13	1.000000	6.27889e-13	1.000000
rad46	4.67775e-13	1.000000	4.68001e-13	1.000000
rad20	1.97399e-13	1.000000	1.97495e-13	1.000000
rad45	1.73025e-13	1.000000	1.73109e-13	1.000000
rad27	1.37657e-13	1.000000	1.37724e-13	1.000000
rad21	1.26989e-13	1.000000	1.27050e-13	1.000000
rad25	1.25513e-13	1.000000	1.25574e-13	1.000000
rad14	9.61098e-14	1.000000	9.61563e-14	1.000000
PhCH2CCH+H	6.58768e-14	1.000000	6.59087e-14	1.000000
rad60syn	2.22153e-14	1.000000	2.22261e-14	1.000000
rad22	1.11723e-14	1.000000	1.11777e-14	1.000000

rad36	1.10042e-14	1.000000	1.10095e-14	1.000000
rad37	9.60917e-15	1.000000	9.61382e-15	1.000000
rad60anti	5.89410e-15	1.000000	5.89695e-15	1.000000
rad18	9.09421e-16	1.000000	9.09862e-16	1.000000
rad5	1.41364e-16	1.000000	1.41433e-16	1.000000
PAH3+H	2.94200e-17	1.000000	2.94342e-17	1.000000
rad31	1.03660e-17	1.000000	1.03710e-17	1.000000
rad59	9.64397e-18	1.000000	9.64864e-18	1.000000
rad50	5.93466e-19	1.000000	5.93754e-19	1.000000
rad19syn	4.20355e-20	1.000000	4.20559e-20	1.000000
rad24	3.23141e-20	1.000000	3.23298e-20	1.000000
rad54	7.83968e-22	1.000000	7.84348e-22	1.000000
PAH10+CH3	5.31140e-22	1.000000	5.31397e-22	1.000000
rad43	1.26563e-22	1.000000	1.26624e-22	1.000000
rad52	9.31655e-23	1.000000	9.32106e-23	1.000000
rad62	2.94150e-23	1.000000	2.94293e-23	1.000000
rad51	1.93279e-24	1.000000	1.93373e-24	1.000000
PhcycC3H3_A+H	1.51276e-24	1.000000	1.51349e-24	1.000000
rad70	1.03103e-24	1.000000	1.03153e-24	1.000000
rad55	4.26525e-25	1.000000	4.26732e-25	1.000000
rad58	9.52936e-26	1.000000	9.53398e-26	1.000000
PAH1+H	3.25729e-26	1.000000	3.25887e-26	1.000000
rad65	1.44848e-26	1.000000	1.44918e-26	1.000000
rad34	1.95256e-27	1.000000	1.95350e-27	1.000000
rad42	2.76435e-29	1.000000	2.76569e-29	1.000000
rad41	8.01996e-30	1.000000	8.02384e-30	1.000000
rad47	1.43625e-35	1.000000	1.43695e-35	1.000000

0.100000000E-02 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19260e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998599	0.998599	0.999199	0.999199
rad6	0.000800168	0.999399	0.000800648	1.000000
Benzyl+C2H2	0.000600268	0.999999	0.000000	1.000000
rad2	2.83719e-07	1.000000	2.83889e-07	1.000000
rad7	6.10510e-08	1.000000	6.10876e-08	1.000000
PhCCH+CH3	4.73377e-08	1.000000	4.73662e-08	1.000000
rad28	4.07948e-08	1.000000	4.08193e-08	1.000000
PhCHCCH2+H	3.22287e-08	1.000000	3.22481e-08	1.000000
rad1	2.05147e-08	1.000000	2.05270e-08	1.000000
PhCCCH3+H	1.76522e-08	1.000000	1.76628e-08	1.000000
rad11	1.52195e-08	1.000000	1.52286e-08	1.000000
rad10	1.46517e-08	1.000000	1.46605e-08	1.000000
rad30	1.36015e-08	1.000000	1.36097e-08	1.000000
rad26	1.01528e-08	1.000000	1.01589e-08	1.000000
rad3	2.01397e-09	1.000000	2.01518e-09	1.000000
PAH9+H	1.67111e-09	1.000000	1.67211e-09	1.000000
rad15	1.46025e-09	1.000000	1.46113e-09	1.000000
rad35	1.14153e-09	1.000000	1.14222e-09	1.000000
rad4	1.05696e-09	1.000000	1.05759e-09	1.000000
Ph+MeAc	4.47192e-10	1.000000	4.47461e-10	1.000000
rad13	3.44293e-10	1.000000	3.44499e-10	1.000000
rad38	3.32034e-10	1.000000	3.32234e-10	1.000000
rad8	1.40614e-10	1.000000	1.40698e-10	1.000000
rad9	7.19751e-11	1.000000	7.20184e-11	1.000000
PAH7+H	4.19013e-11	1.000000	4.19264e-11	1.000000
Ph+Allene	2.16935e-11	1.000000	2.17065e-11	1.000000
rad23	1.97526e-11	1.000000	1.97645e-11	1.000000
rad39	6.23881e-12	1.000000	6.24256e-12	1.000000
rad12	4.71514e-12	1.000000	4.71798e-12	1.000000
rad46	8.47702e-13	1.000000	8.48211e-13	1.000000
rad33	6.71841e-13	1.000000	6.72245e-13	1.000000
PhCH2CCH+H	2.03193e-13	1.000000	2.03315e-13	1.000000
rad20	1.80441e-13	1.000000	1.80549e-13	1.000000
rad45	1.66271e-13	1.000000	1.66371e-13	1.000000
rad27	1.58900e-13	1.000000	1.58996e-13	1.000000
rad25	1.47044e-13	1.000000	1.47132e-13	1.000000
rad14	1.19385e-13	1.000000	1.19456e-13	1.000000
rad21	1.16423e-13	1.000000	1.16493e-13	1.000000
rad60syn	5.16174e-14	1.000000	5.16484e-14	1.000000
rad37	2.69489e-14	1.000000	2.69651e-14	1.000000
rad60anti	1.43346e-14	1.000000	1.43432e-14	1.000000
rad36	1.06283e-14	1.000000	1.06347e-14	1.000000
rad22	9.89474e-15	1.000000	9.90069e-15	1.000000
rad18	8.16233e-16	1.000000	8.16723e-16	1.000000

rad5	4.47086e-16	1.00000	4.47355e-16	1.00000
PAH3+H	1.00710e-16	1.00000	1.00771e-16	1.00000
rad59	3.22576e-17	1.00000	3.22770e-17	1.00000
rad31	1.27282e-17	1.00000	1.27359e-17	1.00000
rad50	2.03061e-18	1.00000	2.03183e-18	1.00000
rad19syn	1.97186e-19	1.00000	1.97304e-19	1.00000
rad24	3.34935e-20	1.00000	3.35136e-20	1.00000
rad54	4.16935e-21	1.00000	4.17185e-21	1.00000
PAH10+CH3	2.80893e-21	1.00000	2.81062e-21	1.00000
rad43	6.64973e-22	1.00000	6.65372e-22	1.00000
rad52	4.34369e-22	1.00000	4.34630e-22	1.00000
rad62	1.66972e-22	1.00000	1.67073e-22	1.00000
rad51	1.13371e-23	1.00000	1.13439e-23	1.00000
PhcycC3H3_A+H	1.04855e-23	1.00000	1.04918e-23	1.00000
rad70	6.89375e-24	1.00000	6.89789e-24	1.00000
rad55	2.88815e-24	1.00000	2.88988e-24	1.00000
rad58	6.67411e-25	1.00000	6.67812e-25	1.00000
PAH1+H	2.48714e-25	1.00000	2.48863e-25	1.00000
rad65	9.40577e-26	1.00000	9.41142e-26	1.00000
rad34	1.52932e-26	1.00000	1.53024e-26	1.00000
rad42	2.29464e-28	1.00000	2.29602e-28	1.00000
rad41	6.70946e-29	1.00000	6.71349e-29	1.00000
rad47	9.26818e-35	1.00000	9.27375e-35	1.00000

0.1000000000E-02 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.03546e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998414	0.998414	0.999154	0.999154
rad6	0.000845116	0.999259	0.000845742	1.000000
Benzyl+C2H2	0.000740380	0.999999	0.000000	1.000000
rad2	3.13508e-07	1.000000	3.13740e-07	1.000000
PhCCH+CH3	8.47288e-08	1.000000	8.47915e-08	1.000000
rad7	6.45699e-08	1.000000	6.46178e-08	1.000000
PhCHCCH2+H	5.60301e-08	1.000000	5.60716e-08	1.000000
rad28	5.43533e-08	1.000000	5.43936e-08	1.000000
PhCCCH3+H	3.13942e-08	1.000000	3.14174e-08	1.000000
rad1	2.29733e-08	1.000000	2.29903e-08	1.000000
rad30	1.86406e-08	1.000000	1.86544e-08	1.000000
rad10	1.62189e-08	1.000000	1.62309e-08	1.000000
rad11	1.61043e-08	1.000000	1.61162e-08	1.000000
rad26	1.31265e-08	1.000000	1.31363e-08	1.000000
PAH9+H	2.25717e-09	1.000000	2.25884e-09	1.000000
rad3	2.19534e-09	1.000000	2.19697e-09	1.000000
rad15	2.16436e-09	1.000000	2.16596e-09	1.000000
rad35	1.48886e-09	1.000000	1.48996e-09	1.000000
rad4	1.15663e-09	1.000000	1.15748e-09	1.000000
Ph+MeAc	9.61312e-10	1.000000	9.62024e-10	1.000000
rad38	4.67128e-10	1.000000	4.67474e-10	1.000000
rad13	3.65415e-10	1.000000	3.65686e-10	1.000000
rad8	2.65206e-10	1.000000	2.65402e-10	1.000000
rad9	1.43594e-10	1.000000	1.43700e-10	1.000000
PAH7+H	8.53486e-11	1.000000	8.54119e-11	1.000000
Ph+Allene	5.15706e-11	1.000000	5.16088e-11	1.000000
rad23	1.96975e-11	1.000000	1.97121e-11	1.000000
rad39	1.33803e-11	1.000000	1.33902e-11	1.000000
rad12	9.46056e-12	1.000000	9.46757e-12	1.000000
rad46	1.48859e-12	1.000000	1.48970e-12	1.000000
rad33	7.14994e-13	1.000000	7.15524e-13	1.000000
PhCH2CCH+H	5.79005e-13	1.000000	5.79434e-13	1.000000
rad27	1.80107e-13	1.000000	1.80240e-13	1.000000
rad25	1.68571e-13	1.000000	1.68696e-13	1.000000
rad45	1.66248e-13	1.000000	1.66371e-13	1.000000
rad20	1.65303e-13	1.000000	1.65426e-13	1.000000
rad14	1.44240e-13	1.000000	1.44347e-13	1.000000
rad60syn	1.13111e-13	1.000000	1.13195e-13	1.000000
rad21	1.06996e-13	1.000000	1.07075e-13	1.000000
rad37	6.96607e-14	1.000000	6.97123e-14	1.000000
rad60anti	3.27398e-14	1.000000	3.27640e-14	1.000000
rad36	1.06870e-14	1.000000	1.06950e-14	1.000000
rad22	8.98272e-15	1.000000	8.98937e-15	1.000000
rad5	1.29795e-15	1.000000	1.29891e-15	1.000000
rad18	7.33287e-16	1.000000	7.33830e-16	1.000000
PAH3+H	3.15874e-16	1.000000	3.16108e-16	1.000000
rad59	9.89334e-17	1.000000	9.90067e-17	1.000000
rad31	1.55409e-17	1.000000	1.55524e-17	1.000000

rad50	6.38766e-18	1.00000	6.39239e-18	1.00000
rad19syn	8.25341e-19	1.00000	8.25953e-19	1.00000
rad24	3.50974e-20	1.00000	3.51234e-20	1.00000
rad54	1.95976e-20	1.00000	1.96121e-20	1.00000
PAH10+CH3	1.31123e-20	1.00000	1.31220e-20	1.00000
rad43	3.08195e-21	1.00000	3.08424e-21	1.00000
rad52	1.81405e-21	1.00000	1.81539e-21	1.00000
rad62	8.31570e-22	1.00000	8.32186e-22	1.00000
PhcycC3H3_A+H	6.27699e-23	1.00000	6.28164e-23	1.00000
rad51	5.84502e-23	1.00000	5.84935e-23	1.00000
rad70	3.98992e-23	1.00000	3.99288e-23	1.00000
rad55	1.69158e-23	1.00000	1.69283e-23	1.00000
rad58	4.03348e-24	1.00000	4.03647e-24	1.00000
PAH1+H	1.62581e-24	1.00000	1.62702e-24	1.00000
rad65	5.31189e-25	1.00000	5.31583e-25	1.00000
rad34	1.02408e-25	1.00000	1.02484e-25	1.00000
rad42	1.63009e-27	1.00000	1.63130e-27	1.00000
rad41	4.81025e-28	1.00000	4.81382e-28	1.00000
rad47	5.14480e-34	1.00000	5.14861e-34	1.00000

0.100000000E-02 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89185e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998204	0.998204	0.999112	0.999112
Benzyl+C2H2	0.000908656	0.999113	0.00000	0.999112
rad6	0.000886437	0.999999	0.000887243	0.999999
rad2	3.41597e-07	0.999999	3.41908e-07	1.000000
PhCCH+CH3	1.45916e-07	1.000000	1.46048e-07	1.000000
PhCHCCH2+H	9.39227e-08	1.000000	9.40081e-08	1.000000
rad28	7.01105e-08	1.000000	7.01743e-08	1.000000
rad7	6.78303e-08	1.000000	6.78920e-08	1.000000
PhCCCH3+H	5.36855e-08	1.000000	5.37343e-08	1.000000
rad1	2.53927e-08	1.000000	2.54158e-08	1.000000
rad30	2.52229e-08	1.000000	2.52459e-08	1.000000
rad10	1.77061e-08	1.000000	1.77222e-08	1.000000
rad11	1.69264e-08	1.000000	1.69418e-08	1.000000
rad26	1.64478e-08	1.000000	1.64627e-08	1.000000
rad15	3.14628e-09	1.000000	3.14914e-09	1.000000
PAH9+H	3.03009e-09	1.000000	3.03284e-09	1.000000
rad3	2.36653e-09	1.000000	2.36868e-09	1.000000
Ph+MeAc	1.95904e-09	1.000000	1.96082e-09	1.000000
rad35	1.93293e-09	1.000000	1.93469e-09	1.000000
rad4	1.25203e-09	1.000000	1.25317e-09	1.000000
rad38	6.50956e-10	1.000000	6.51548e-10	1.000000
rad8	4.79245e-10	1.000000	4.79681e-10	1.000000
rad13	3.85238e-10	1.000000	3.85588e-10	1.000000
rad9	2.73609e-10	1.000000	2.73858e-10	1.000000
PAH7+H	1.65805e-10	1.000000	1.65956e-10	1.000000
Ph+Allene	1.15773e-10	1.000000	1.15878e-10	1.000000
rad39	2.72535e-11	1.000000	2.72783e-11	1.000000
rad23	2.04430e-11	1.000000	2.04616e-11	1.000000
rad12	1.80667e-11	1.000000	1.80831e-11	1.000000
rad46	2.54122e-12	1.000000	2.54353e-12	1.000000
PhCH2CCH+H	1.53711e-12	1.000000	1.53850e-12	1.000000
rad33	7.55950e-13	1.000000	7.56638e-13	1.000000
rad60syn	2.35281e-13	1.000000	2.35495e-13	1.000000
rad27	2.00707e-13	1.000000	2.00889e-13	1.000000
rad25	1.89485e-13	1.000000	1.89657e-13	1.000000
rad45	1.73205e-13	1.000000	1.73362e-13	1.000000
rad14	1.69937e-13	1.000000	1.70092e-13	1.000000
rad37	1.67458e-13	1.000000	1.67610e-13	1.000000
rad20	1.51792e-13	1.000000	1.51930e-13	1.000000
rad21	9.85850e-14	1.000000	9.86747e-14	1.000000
rad60anti	7.07156e-14	1.000000	7.07799e-14	1.000000
rad36	1.12042e-14	1.000000	1.12144e-14	1.000000
rad22	8.39961e-15	1.000000	8.40725e-15	1.000000
rad5	3.49016e-15	1.000000	3.49333e-15	1.000000
PAH3+H	9.16409e-16	1.000000	9.17242e-16	1.000000
rad18	6.59427e-16	1.000000	6.60027e-16	1.000000
rad59	2.80867e-16	1.000000	2.81123e-16	1.000000
rad31	1.88893e-17	1.000000	1.89064e-17	1.000000
rad50	1.86415e-17	1.000000	1.86585e-17	1.000000
rad19syn	3.11989e-18	1.000000	3.12273e-18	1.000000
rad54	8.24591e-20	1.000000	8.25341e-20	1.000000
PAH10+CH3	5.47295e-20	1.000000	5.47793e-20	1.000000

rad24	3.71826e-20	1.000000	3.72164e-20	1.00000
rad43	1.27654e-20	1.000000	1.27770e-20	1.00000
rad52	6.86590e-21	1.000000	6.87215e-21	1.00000
rad62	3.68225e-21	1.000000	3.68560e-21	1.00000
PhcycC3H3_A+H	3.28522e-22	1.000000	3.28820e-22	1.00000
rad51	2.68178e-22	1.000000	2.68422e-22	1.00000
rad70	2.02515e-22	1.000000	2.02700e-22	1.00000
rad55	8.67988e-23	1.000000	8.68777e-23	1.00000
rad58	2.12887e-23	1.000000	2.13081e-23	1.00000
PAH1+H	9.18631e-24	1.000000	9.19466e-24	1.00000
rad65	2.64196e-24	1.000000	2.64436e-24	1.00000
rad34	5.90913e-25	1.000000	5.91450e-25	1.00000
rad42	9.90046e-27	1.000000	9.90947e-27	1.00000
rad41	2.94482e-27	1.000000	2.94750e-27	1.00000
rad47	2.49694e-33	1.000000	2.49921e-33	1.00000

0.100000000E-02 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.19549e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997966	0.997966	0.999075	0.999075
Benzyl+C2H2	0.00110964	0.999076	0.00000	0.999075
rad6	0.000922853	0.999998	0.000923878	0.999999
rad2	3.67230e-07	0.999999	3.67638e-07	0.999999
PhCCH+CH3	2.42613e-07	0.999999	2.42883e-07	0.999999
PhCHCCH2+H	1.52288e-07	0.999999	1.52457e-07	1.000000
PhCCH3+H	8.85826e-08	0.999999	8.86810e-08	1.000000
rad28	8.77702e-08	0.999999	8.78677e-08	1.000000
rad7	7.07340e-08	1.000000	7.08126e-08	1.000000
rad30	3.37304e-08	1.000000	3.37679e-08	1.000000
rad1	2.77197e-08	1.000000	2.77505e-08	1.000000
rad26	2.00256e-08	1.000000	2.00478e-08	1.000000
rad10	1.90740e-08	1.000000	1.90952e-08	1.000000
rad11	1.76613e-08	1.000000	1.76809e-08	1.00000
rad15	4.49383e-09	1.000000	4.49883e-09	1.00000
PAH9+H	4.04276e-09	1.000000	4.04725e-09	1.00000
Ph+MeAc	3.80443e-09	1.000000	3.80866e-09	1.00000
rad3	2.52292e-09	1.000000	2.52572e-09	1.00000
rad35	2.49759e-09	1.000000	2.50036e-09	1.00000
rad4	1.34077e-09	1.000000	1.34226e-09	1.00000
rad38	8.98896e-10	1.000000	8.99895e-10	1.00000
rad8	8.33204e-10	1.000000	8.34130e-10	1.00000
rad9	5.00220e-10	1.000000	5.00776e-10	1.00000
rad13	4.03196e-10	1.000000	4.03644e-10	1.00000
PAH7+H	3.08697e-10	1.000000	3.09040e-10	1.00000
Ph+Allene	2.46876e-10	1.000000	2.47150e-10	1.00000
rad39	5.29966e-11	1.000000	5.30555e-11	1.00000
rad12	3.29982e-11	1.000000	3.30349e-11	1.00000
rad23	2.20752e-11	1.000000	2.20998e-11	1.00000
rad46	4.22888e-12	1.000000	4.23357e-12	1.00000
PhCH2CCH+H	3.82928e-12	1.000000	3.83353e-12	1.00000
rad33	7.93605e-13	1.000000	7.94487e-13	1.00000
rad60syn	4.67144e-13	1.000000	4.67663e-13	1.00000
rad37	3.77252e-13	1.000000	3.77671e-13	1.00000
rad27	2.20141e-13	1.000000	2.20386e-13	1.00000
rad25	2.09200e-13	1.000000	2.09433e-13	1.00000
rad14	1.95666e-13	1.000000	1.95883e-13	1.00000
rad45	1.88050e-13	1.000000	1.88258e-13	1.00000
rad60anti	1.45310e-13	1.000000	1.45472e-13	1.00000
rad20	1.39735e-13	1.000000	1.39890e-13	1.00000
rad21	9.10863e-14	1.000000	9.11875e-14	1.00000
rad36	1.22486e-14	1.000000	1.22622e-14	1.00000
rad5	8.76038e-15	1.000000	8.77011e-15	1.00000
rad22	8.12990e-15	1.000000	8.13893e-15	1.00000
PAH3+H	2.47932e-15	1.000000	2.48208e-15	1.00000
rad59	7.44104e-16	1.000000	7.44931e-16	1.00000
rad18	5.93640e-16	1.000000	5.94299e-16	1.00000
rad50	5.08643e-17	1.000000	5.09208e-17	1.00000
rad31	2.28801e-17	1.000000	2.29055e-17	1.00000
rad19syn	1.07621e-17	1.000000	1.07740e-17	1.00000
rad54	3.14021e-19	1.000000	3.14370e-19	1.00000
PAH10+CH3	2.06544e-19	1.000000	2.06774e-19	1.00000
rad43	4.77874e-20	1.000000	4.78405e-20	1.00000
rad24	3.98311e-20	1.000000	3.98753e-20	1.00000
rad52	2.37865e-20	1.000000	2.38129e-20	1.00000
rad62	1.46669e-20	1.000000	1.46832e-20	1.00000

PhcycC3H3_A+H	1.52298e-21	1.000000	1.52467e-21	1.00000
rad51	1.10719e-21	1.000000	1.10842e-21	1.00000
rad70	9.13055e-22	1.000000	9.14070e-22	1.00000
rad55	3.95247e-22	1.000000	3.95686e-22	1.00000
rad58	9.94311e-23	1.000000	9.95416e-23	1.00000
PAH1+H	4.55353e-23	1.000000	4.55859e-23	1.00000
rad65	1.17137e-23	1.000000	1.17268e-23	1.00000
rad34	2.98363e-24	1.000000	2.98695e-24	1.00000
rad42	5.23006e-26	1.000000	5.23587e-26	1.00000
rad41	1.56667e-26	1.000000	1.56841e-26	1.00000
rad47	1.07465e-32	1.000000	1.07584e-32	1.00000

0.1000000000E-02 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17544e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997535	0.997535	0.999194	0.999194
Benzyl+C2H2	0.00166067	0.999196	0.00000	0.999194
rad6	0.000802888	0.999999	0.000804223	0.999998
PhCCH+CH3	4.22024e-07	0.999999	4.22726e-07	0.999999
rad2	3.18896e-07	0.999999	3.19426e-07	0.999999
PhCHCCH2+H	2.46518e-07	1.000000	2.46929e-07	0.999999
PhCCCH3+H	1.49791e-07	1.000000	1.50040e-07	0.999999
rad28	9.91125e-08	1.000000	9.92773e-08	0.999999
rad7	7.09811e-08	1.000000	7.10991e-08	1.000000
rad30	3.74792e-08	1.000000	3.75416e-08	1.000000
rad1	2.40300e-08	1.000000	2.40700e-08	1.000000
rad26	2.19279e-08	1.000000	2.19644e-08	1.000000
rad10	1.83372e-08	1.000000	1.83677e-08	1.000000
rad11	1.74118e-08	1.000000	1.74408e-08	1.000000
Ph+MeAc	6.40143e-09	1.000000	6.41208e-09	1.000000
PAH9+H	5.54509e-09	1.000000	5.55431e-09	1.000000
rad35	2.76716e-09	1.000000	2.77176e-09	1.000000
rad3	2.30260e-09	1.000000	2.30643e-09	1.000000
rad23	1.58655e-09	1.000000	1.58919e-09	1.000000
rad4	1.14509e-09	1.000000	1.14699e-09	1.000000
rad38	1.02391e-09	1.000000	1.02561e-09	1.000000
PAH7+H	6.67980e-10	1.000000	6.69092e-10	1.000000
rad13	4.10811e-10	1.000000	4.11494e-10	1.000000
Ph+Allene	2.59814e-10	1.000000	2.60246e-10	1.000000
rad39	9.04531e-11	1.000000	9.06035e-11	1.000000
rad45	1.80260e-11	1.000000	1.80560e-11	1.000000
rad19anti	1.65399e-11	1.000000	1.65674e-11	1.000000
rad20	7.82564e-12	1.000000	7.83866e-12	1.000000
PhCH2CCH+H	7.64884e-12	1.000000	7.66157e-12	1.000000
rad46	5.66849e-12	1.000000	5.67792e-12	1.000000
rad21	5.00248e-12	1.000000	5.01080e-12	1.000000
rad22	2.48206e-12	1.000000	2.48619e-12	1.000000
rad33	9.85404e-13	1.000000	9.87043e-13	1.000000
rad60syn	7.08112e-13	1.000000	7.09290e-13	1.000000
rad37	6.25077e-13	1.000000	6.26116e-13	1.000000
rad36	6.14379e-13	1.000000	6.15401e-13	1.000000
rad27	2.61721e-13	1.000000	2.62156e-13	1.000000
rad25	2.36552e-13	1.000000	2.36945e-13	1.000000
rad14	2.30043e-13	1.000000	2.30425e-13	1.000000
rad60anti	2.13286e-13	1.000000	2.13641e-13	1.000000
rad18	1.97144e-13	1.000000	1.97472e-13	1.000000
PAH3+H	6.24966e-15	1.000000	6.26005e-15	1.000000
rad59	1.44660e-15	1.000000	1.44901e-15	1.000000
rad50	1.03059e-16	1.000000	1.03230e-16	1.000000
rad31	4.77643e-17	1.000000	4.78437e-17	1.000000
rad19syn	2.70832e-17	1.000000	2.71282e-17	1.000000
rad9	1.97359e-17	1.000000	1.97687e-17	1.000000
rad24	1.77728e-17	1.000000	1.78024e-17	1.000000
rad67	1.21364e-18	1.000000	1.21566e-18	1.000000
rad54	8.65249e-19	1.000000	8.66688e-19	1.000000
PAH10+CH3	5.74889e-19	1.000000	5.75845e-19	1.000000
rad43	1.19660e-19	1.000000	1.19859e-19	1.000000
rad52	6.29021e-20	1.000000	6.30067e-20	1.000000
rad62	4.06414e-20	1.000000	4.07090e-20	1.000000
rad15	1.17159e-20	1.000000	1.17354e-20	1.000000
PhcycC3H3_A+H	7.40062e-21	1.000000	7.41293e-21	1.000000
rad51	3.46386e-21	1.000000	3.46962e-21	1.000000
rad70	3.35899e-21	1.000000	3.36458e-21	1.000000
rad55	1.33748e-21	1.000000	1.33971e-21	1.000000
rad58	3.59875e-22	1.000000	3.60473e-22	1.000000

PAH1+H	2.76724e-22	1.00000	2.77184e-22	1.000000
rad65	4.20893e-23	1.00000	4.21593e-23	1.000000
rad34	1.85578e-23	1.00000	1.85886e-23	1.000000
rad5	7.96789e-25	1.00000	7.98114e-25	1.000000
rad42	4.75845e-25	1.00000	4.76636e-25	1.000000
rad12	2.14309e-25	1.00000	2.14666e-25	1.000000
rad41	1.45062e-25	1.00000	1.45303e-25	1.000000
rad53	6.41758e-27	1.00000	6.42826e-27	1.000000
rad64	1.37169e-27	1.00000	1.37397e-27	1.000000
rad56	9.25735e-30	1.00000	9.27275e-30	1.000000
rad61	1.40890e-30	1.00000	1.41124e-30	1.000000
rad68syn	1.02468e-30	1.00000	1.02639e-30	1.000000
rad68anti	7.31430e-31	1.00000	7.32647e-31	1.000000
rad47	2.40164e-32	1.00000	2.40563e-32	1.000000
rad73	8.19118e-33	1.00000	8.20481e-33	1.000000
rad40syn	2.98882e-34	1.00000	2.99379e-34	1.000000
rad71	2.29197e-34	1.00000	2.29578e-34	1.000000
rad40anti	9.26992e-35	1.00000	9.28534e-35	1.000000
PAH8+H	5.66355e-35	1.00000	5.67297e-35	1.000000
rad72	4.01951e-40	1.00000	4.02619e-40	1.000000
rad8	2.21446e-41	1.00000	2.21814e-41	1.000000

0.100000000E-02 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.44453e-22 (1.00)	2.44055e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997391	0.997391	0.999020	0.999020
Benzyl+C2H2	0.00163049	0.999021	0.00000	0.999020
rad6	0.000976460	0.999998	0.000978054	0.999998
PhCCH+CH3	6.10838e-07	0.999999	6.11835e-07	0.999999
rad2	4.08501e-07	0.999999	4.09168e-07	0.999999
PhCHCCH2+H	3.66340e-07	0.999999	3.66939e-07	0.999999
PhCCCH3+H	2.19299e-07	1.000000	2.19657e-07	1.000000
rad28	1.26868e-07	1.000000	1.27075e-07	1.000000
rad7	7.51215e-08	1.000000	7.52441e-08	1.000000
rad30	5.84186e-08	1.000000	5.85140e-08	1.000000
rad1	3.18933e-08	1.000000	3.19454e-08	1.000000
rad26	2.74829e-08	1.000000	2.75278e-08	1.000000
rad10	2.13142e-08	1.000000	2.13490e-08	1.000000
rad11	1.87817e-08	1.000000	1.88124e-08	1.000000
Ph+MeAc	1.26357e-08	1.000000	1.26564e-08	1.000000
rad15	8.74767e-09	1.000000	8.76196e-09	1.000000
PAH9+H	7.06556e-09	1.000000	7.07710e-09	1.000000
rad35	4.10954e-09	1.000000	4.11625e-09	1.000000
rad3	2.77531e-09	1.000000	2.77984e-09	1.000000
rad8	2.27473e-09	1.000000	2.27845e-09	1.000000
rad38	1.67017e-09	1.000000	1.67290e-09	1.000000
rad9	1.49987e-09	1.000000	1.50232e-09	1.000000
rad4	1.48957e-09	1.000000	1.49200e-09	1.000000
Ph+Allene	9.81055e-10	1.000000	9.82657e-10	1.000000
PAH7+H	9.57324e-10	1.000000	9.58888e-10	1.000000
rad13	4.31456e-10	1.000000	4.32160e-10	1.000000
rad39	1.77485e-10	1.000000	1.77775e-10	1.000000
rad12	9.78961e-11	1.000000	9.80560e-11	1.000000
rad23	2.87669e-11	1.000000	2.88139e-11	1.000000
PhCH2CCH+H	2.01204e-11	1.000000	2.01532e-11	1.000000
rad46	1.09454e-11	1.000000	1.09633e-11	1.000000
rad60syn	1.63124e-12	1.000000	1.63391e-12	1.000000
rad37	1.61698e-12	1.000000	1.61962e-12	1.000000
rad33	8.54919e-13	1.000000	8.56315e-13	1.000000
rad60anti	5.38905e-13	1.000000	5.39785e-13	1.000000
rad27	2.53503e-13	1.000000	2.53917e-13	1.000000
rad45	2.49431e-13	1.000000	2.49838e-13	1.000000
rad14	2.43954e-13	1.000000	2.44352e-13	1.000000
rad25	2.42986e-13	1.000000	2.43383e-13	1.000000
rad20	1.19401e-13	1.000000	1.19596e-13	1.000000
rad21	7.84648e-14	1.000000	7.85930e-14	1.000000
rad5	4.60734e-14	1.000000	4.61486e-14	1.000000
rad36	1.65037e-14	1.000000	1.65306e-14	1.000000
PAH3+H	1.51208e-14	1.000000	1.51455e-14	1.000000
rad22	8.57391e-15	1.000000	8.58791e-15	1.000000
rad59	4.36065e-15	1.000000	4.36777e-15	1.000000
rad18	4.82823e-16	1.000000	4.83612e-16	1.000000
rad50	3.17540e-16	1.000000	3.18059e-16	1.000000
rad19syn	1.00709e-16	1.000000	1.00873e-16	1.000000
rad31	3.33576e-17	1.000000	3.34121e-17	1.000000

rad54	3.50125e-18	1.000000	3.50697e-18	1.00000
PAH10+CH3	2.25638e-18	1.000000	2.26006e-18	1.00000
rad43	5.13297e-19	1.000000	5.14136e-19	1.00000
rad52	2.26204e-19	1.000000	2.26574e-19	1.00000
rad62	1.76032e-19	1.000000	1.76319e-19	1.00000
rad24	4.73106e-20	1.000000	4.73879e-20	1.00000
PhcycC3H3_A+H	2.37540e-20	1.000000	2.37928e-20	1.00000
rad51	1.42629e-20	1.000000	1.42862e-20	1.00000
rad70	1.35738e-20	1.000000	1.35959e-20	1.00000
rad55	5.97809e-21	1.000000	5.98786e-21	1.00000
rad58	1.57032e-21	1.000000	1.57289e-21	1.00000
PAH1+H	7.92885e-22	1.000000	7.94180e-22	1.00000
rad65	1.69841e-22	1.000000	1.70118e-22	1.00000
rad34	5.35689e-23	1.000000	5.36564e-23	1.00000
rad42	1.01277e-24	1.000000	1.01443e-24	1.00000
rad41	3.07040e-25	1.000000	3.07541e-25	1.00000
rad47	1.45555e-31	1.000000	1.45793e-31	1.00000

0.100000000E-02 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.60269e-20 (1.00)	3.57082e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.990445	0.990445	0.999285	0.999285
Benzyl+C2H2	0.00884634	0.999291	0.00000	0.999285
rad6	0.000685500	0.999977	0.000691618	0.999977
PhCCH+CH3	1.21167e-05	0.999989	1.22248e-05	0.999989
PhCHCCH2+H	5.79350e-06	0.999995	5.84520e-06	0.999995
PhCCCH3+H	3.82232e-06	0.999999	3.85643e-06	0.999999
Ph+MeAc	5.34234e-07	0.999999	5.39003e-07	0.999999
rad30	4.02067e-07	1.000000	4.05655e-07	0.999999
rad2	3.14370e-07	1.000000	3.17176e-07	1.000000
rad28	2.05183e-07	1.000000	2.07014e-07	1.000000
PAH9+H	6.80666e-08	1.000000	6.86741e-08	1.000000
Ph+Allene	6.39922e-08	1.000000	6.45633e-08	1.000000
rad7	6.37769e-08	1.000000	6.43461e-08	1.000000
PAH7+H	4.47676e-08	1.000000	4.51672e-08	1.000000
rad26	3.84300e-08	1.000000	3.87730e-08	1.000000
rad1	2.92564e-08	1.000000	2.95176e-08	1.000000
rad35	2.73683e-08	1.000000	2.76126e-08	1.000000
rad10	1.88505e-08	1.000000	1.90187e-08	1.000000
rad38	1.63188e-08	1.000000	1.64645e-08	1.000000
rad11	1.59517e-08	1.000000	1.60941e-08	1.000000
rad23	1.07166e-08	1.000000	1.08122e-08	1.000000
rad39	8.57617e-09	1.000000	8.65272e-09	1.000000
PhCH2CCH+H	4.56492e-09	1.000000	4.60567e-09	1.000000
rad3	2.40536e-09	1.000000	2.42683e-09	1.000000
rad4	1.26675e-09	1.000000	1.27806e-09	1.000000
rad19anti	8.42822e-10	1.000000	8.50345e-10	1.000000
rad45	4.53258e-10	1.000000	4.57303e-10	1.000000
rad13	3.91535e-10	1.000000	3.95030e-10	1.000000
rad46	3.06016e-10	1.000000	3.08747e-10	1.000000
rad37	1.38530e-10	1.000000	1.39766e-10	1.000000
rad60syn	9.47273e-11	1.000000	9.55727e-11	1.000000
rad60anti	3.76555e-11	1.000000	3.79916e-11	1.000000
rad36	1.74110e-11	1.000000	1.75663e-11	1.000000
PAH3+H	6.50523e-12	1.000000	6.56329e-12	1.000000
rad20	4.10755e-12	1.000000	4.14421e-12	1.000000
rad21	2.87177e-12	1.000000	2.89740e-12	1.000000
rad22	2.21678e-12	1.000000	2.23657e-12	1.000000
rad59	1.36006e-12	1.000000	1.37220e-12	1.000000
rad33	1.02847e-12	1.000000	1.03765e-12	1.000000
rad14	3.21901e-13	1.000000	3.24774e-13	1.000000
rad25	3.10450e-13	1.000000	3.13221e-13	1.000000
rad27	3.08766e-13	1.000000	3.11522e-13	1.000000
rad50	1.36075e-13	1.000000	1.37289e-13	1.000000
rad19syn	1.28787e-13	1.000000	1.29936e-13	1.000000
rad18	8.01822e-14	1.000000	8.08979e-14	1.000000
rad54	8.91830e-15	1.000000	8.99790e-15	1.000000
PAH10+CH3	4.85824e-15	1.000000	4.90160e-15	1.000000
rad67	1.67409e-15	1.000000	1.68903e-15	1.000000
rad43	8.71769e-16	1.000000	8.79549e-16	1.000000
rad62	4.87076e-16	1.000000	4.91423e-16	1.000000
rad52	4.04291e-16	1.000000	4.07900e-16	1.000000
rad31	3.25559e-16	1.000000	3.28465e-16	1.000000
PhcycC3H3_A+H	3.21951e-16	1.000000	3.24825e-16	1.000000
rad9	1.44582e-16	1.000000	1.45872e-16	1.000000

rad70	1.20406e-16	1.00000	1.21480e-16	1.00000
rad51	7.68098e-17	1.00000	7.74954e-17	1.00000
rad24	5.73001e-17	1.00000	5.78116e-17	1.00000
rad55	5.04370e-17	1.00000	5.08872e-17	1.00000
PAH1+H	2.44075e-17	1.00000	2.46253e-17	1.00000
rad58	1.79714e-17	1.00000	1.81318e-17	1.00000
rad34	2.03160e-18	1.00000	2.04973e-18	1.00000
rad65	1.55014e-18	1.00000	1.56398e-18	1.00000
rad15	9.11205e-20	1.00000	9.19337e-20	1.00000
rad42	7.26769e-20	1.00000	7.33256e-20	1.00000
rad41	2.26627e-20	1.00000	2.28650e-20	1.00000
rad53	5.66800e-21	1.00000	5.71859e-21	1.00000
rad64	1.82341e-21	1.00000	1.83968e-21	1.00000
rad5	8.34426e-23	1.00000	8.41873e-23	1.00000
rad56	6.83338e-23	1.00000	6.89437e-23	1.00000
rad68syn	8.81142e-24	1.00000	8.89007e-24	1.00000
rad73	8.54730e-24	1.00000	8.62358e-24	1.00000
rad68anti	6.35356e-24	1.00000	6.41026e-24	1.00000
rad61	4.90149e-24	1.00000	4.94523e-24	1.00000
rad12	4.01364e-24	1.00000	4.04947e-24	1.00000
rad71	2.03212e-24	1.00000	2.05026e-24	1.00000
PAH8+H	7.74482e-26	1.00000	7.81394e-26	1.00000
rad40syn	6.88776e-26	1.00000	6.94923e-26	1.00000
rad40anti	2.02031e-26	1.00000	2.03835e-26	1.00000
rad72	1.07795e-27	1.00000	1.08757e-27	1.00000
rad47	5.33340e-28	1.00000	5.38100e-28	1.00000
rad8	8.99284e-38	1.00000	9.07310e-38	1.00000

0.100000000E-02 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.18787e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.968468	0.968468	0.999515	0.999515
Benzyl+C2H2	0.0310615	0.999529	0.00000	0.999515
rad6	0.000298236	0.999828	0.000307797	0.999823
PhCCH+CH3	9.31228e-05	0.999921	9.61081e-05	0.999919
PhCHCCH2+H	3.98062e-05	0.999961	4.10823e-05	0.999960
PhCCCH3+H	2.52892e-05	0.999986	2.60999e-05	0.999986
Ph+MeAc	7.06894e-06	0.999993	7.29555e-06	0.999993
rad30	2.19660e-06	0.999995	2.26702e-06	0.999996
Ph+Allene	2.05021e-06	0.999997	2.11594e-06	0.999998
PAH7+H	6.79474e-07	0.999998	7.01256e-07	0.999998
PAH9+H	4.84050e-07	0.999998	4.99568e-07	0.999999
PhCH2CCH+H	2.44775e-07	0.999999	2.52621e-07	0.999999
rad2	1.69372e-07	0.999999	1.74801e-07	0.999999
rad35	1.65636e-07	0.999999	1.70946e-07	1.000000
rad39	1.51319e-07	0.999999	1.56170e-07	1.000000
rad38	1.34454e-07	0.999999	1.38764e-07	1.000000
rad28	1.33275e-07	0.999999	1.37547e-07	1.000000
rad23	5.74961e-08	0.999999	5.93393e-08	1.000000
rad7	2.98438e-08	1.000000	3.08005e-08	1.000000
rad26	2.27590e-08	1.000000	2.34886e-08	1.000000
rad1	2.02229e-08	1.000000	2.08712e-08	1.000000
rad19anti	1.41490e-08	1.000000	1.46025e-08	1.000000
rad10	8.99311e-09	1.000000	9.28141e-09	1.000000
rad11	7.73807e-09	1.000000	7.98613e-09	1.000000
rad45	6.23507e-09	1.000000	6.43495e-09	1.000000
rad46	5.06753e-09	1.000000	5.22999e-09	1.000000
rad37	2.87139e-09	1.000000	2.96344e-09	1.000000
rad60syn	2.17484e-09	1.000000	2.24456e-09	1.000000
rad3	1.60799e-09	1.000000	1.65954e-09	1.000000
rad60anti	9.78345e-10	1.000000	1.00971e-09	1.000000
rad4	9.05520e-10	1.000000	9.34548e-10	1.000000
PAH3+H	4.98716e-10	1.000000	5.14703e-10	1.000000
rad36	3.17383e-10	1.000000	3.27557e-10	1.000000
rad13	2.02878e-10	1.000000	2.09382e-10	1.000000
rad59	9.55004e-11	1.000000	9.85619e-11	1.000000
rad19syn	2.21140e-11	1.000000	2.28229e-11	1.000000
rad50	1.39192e-11	1.000000	1.43654e-11	1.000000
rad22	6.12026e-12	1.000000	6.31646e-12	1.000000
rad20	3.28214e-12	1.000000	3.38735e-12	1.000000
rad21	2.58538e-12	1.000000	2.66826e-12	1.000000
rad54	2.40122e-12	1.000000	2.47820e-12	1.000000
PAH10+CH3	9.78448e-13	1.000000	1.00981e-12	1.000000
rad33	6.28703e-13	1.000000	6.48857e-13	1.000000
rad67	2.37655e-13	1.000000	2.45273e-13	1.000000

PhcycC3H3_A+H	2.03269e-13	1.000000	2.09785e-13	1.00000
rad14	1.92058e-13	1.000000	1.98215e-13	1.00000
rad25	1.82925e-13	1.000000	1.88789e-13	1.00000
rad27	1.76905e-13	1.000000	1.82576e-13	1.00000
rad43	1.49365e-13	1.000000	1.54153e-13	1.00000
rad62	1.23232e-13	1.000000	1.27183e-13	1.00000
rad52	1.04196e-13	1.000000	1.07536e-13	1.00000
rad70	6.57149e-14	1.000000	6.78216e-14	1.00000
rad51	4.54601e-14	1.000000	4.69174e-14	1.00000
rad18	4.20995e-14	1.000000	4.34491e-14	1.00000
rad55	2.77408e-14	1.000000	2.86301e-14	1.00000
PAH1+H	2.29959e-14	1.000000	2.37331e-14	1.00000
rad58	1.25009e-14	1.000000	1.29017e-14	1.00000
rad34	2.12202e-15	1.000000	2.19005e-15	1.00000
rad9	1.41062e-15	1.000000	1.45584e-15	1.00000
rad65	1.18844e-15	1.000000	1.22654e-15	1.00000
rad31	1.12470e-15	1.000000	1.16076e-15	1.00000
rad24	4.19512e-16	1.000000	4.32961e-16	1.00000
rad42	8.30699e-17	1.000000	8.57329e-17	1.00000
rad41	2.52354e-17	1.000000	2.60444e-17	1.00000
rad53	2.07030e-17	1.000000	2.13666e-17	1.00000
rad73	1.32556e-17	1.000000	1.36805e-17	1.00000
rad71	1.04514e-17	1.000000	1.07864e-17	1.00000
rad64	8.81365e-18	1.000000	9.09619e-18	1.00000
rad56	9.93465e-19	1.000000	1.02531e-18	1.00000
rad15	9.58882e-19	1.000000	9.89621e-19	1.00000
rad68syn	1.71725e-19	1.000000	1.77230e-19	1.00000
rad61	1.54554e-19	1.000000	1.59509e-19	1.00000
rad68anti	1.18535e-19	1.000000	1.22335e-19	1.00000
rad72	1.17696e-19	1.000000	1.21469e-19	1.00000
PAH8+H	1.00177e-19	1.000000	1.03388e-19	1.00000
rad40syn	1.86473e-20	1.000000	1.92451e-20	1.00000
rad40anti	9.80082e-21	1.000000	1.01150e-20	1.00000
rad5	8.11118e-22	1.000000	8.37120e-22	1.00000
rad12	5.89675e-22	1.000000	6.08578e-22	1.00000
rad47	2.99644e-25	1.000000	3.09249e-25	1.00000
rad8	6.08379e-34	1.000000	6.27882e-34	1.00000

0.100000000E-02 Pa, 600.000000 K

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

Total | 1.36947e-17 (1.00) | 1.26193e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.920767	0.920767	0.999234	0.999234
Benzyl+C2H2	0.0785271	0.999294	0.00000	0.999234
PhCCH+CH3	0.000332628	0.999627	0.000360975	0.999595
PhCHCCH2+H	0.000136838	0.999764	0.000148499	0.999743
rad6	8.45049e-05	0.999848	9.17063e-05	0.999835
PhCCCH3+H	7.52879e-05	0.999923	8.17039e-05	0.999917
Ph+MeAc	3.38761e-05	0.999957	3.67630e-05	0.999954
Ph+Allene	2.17053e-05	0.999979	2.35550e-05	0.999977
rad30	7.59249e-06	0.999987	8.23952e-06	0.999985
PAH7+H	4.38958e-06	0.999991	4.76365e-06	0.999990
PhCH2CCH+H	3.66156e-06	0.999995	3.97360e-06	0.999994
PAH9+H	2.21793e-06	0.999997	2.40694e-06	0.999997
rad39	1.04238e-06	0.999998	1.13121e-06	0.999998
rad38	6.77425e-07	0.999999	7.35154e-07	0.999998
rad35	6.69743e-07	0.999999	7.26818e-07	0.999999
rad19anti	1.16217e-07	0.999999	1.26121e-07	0.999999
rad23	1.01580e-07	0.999999	1.10236e-07	0.999999
rad2	7.67385e-08	0.999999	8.32781e-08	0.999999
rad28	4.73643e-08	1.000000	5.14006e-08	1.000000
rad46	4.04368e-08	1.000000	4.38828e-08	1.000000
rad60syn	1.92851e-08	1.000000	2.09285e-08	1.000000
rad37	1.80304e-08	1.000000	1.95670e-08	1.000000
rad45	1.38076e-08	1.000000	1.49842e-08	1.000000
rad1	1.12327e-08	1.000000	1.21900e-08	1.000000
PAH3+H	9.89178e-09	1.000000	1.07347e-08	1.000000
rad7	9.38094e-09	1.000000	1.01804e-08	1.000000
rad60anti	9.33107e-09	1.000000	1.01263e-08	1.000000
rad26	7.72746e-09	1.000000	8.38598e-09	1.000000
rad10	2.80385e-09	1.000000	3.04279e-09	1.000000
rad11	2.57905e-09	1.000000	2.79883e-09	1.000000
rad59	1.75184e-09	1.000000	1.90113e-09	1.000000
rad36	1.04936e-09	1.000000	1.13879e-09	1.000000
rad3	7.83271e-10	1.000000	8.50020e-10	1.000000
rad19syn	6.85678e-10	1.000000	7.44110e-10	1.000000

rad4	4.75712e-10	1.000000	5.16252e-10	1.000000
rad50	3.82246e-10	1.000000	4.14821e-10	1.000000
rad54	1.00717e-10	1.000000	1.09300e-10	1.000000
rad13	7.65887e-11	1.000000	8.31155e-11	1.000000
PAH10+CH3	3.00906e-11	1.000000	3.26549e-11	1.000000
PhcycC3H3_A+H	1.50395e-11	1.000000	1.63211e-11	1.000000
rad67	9.09505e-12	1.000000	9.87013e-12	1.000000
rad22	9.05900e-12	1.000000	9.83100e-12	1.000000
rad51	7.63588e-12	1.000000	8.28660e-12	1.000000
rad52	6.26403e-12	1.000000	6.79785e-12	1.000000
rad62	4.45785e-12	1.000000	4.83774e-12	1.000000
rad20	4.39828e-12	1.000000	4.77310e-12	1.000000
rad70	4.35385e-12	1.000000	4.72488e-12	1.000000
rad21	3.92878e-12	1.000000	4.26359e-12	1.000000
rad43	3.85705e-12	1.000000	4.18574e-12	1.000000
PAH1+H	2.28520e-12	1.000000	2.47995e-12	1.000000
rad55	1.81139e-12	1.000000	1.96576e-12	1.000000
rad58	1.01715e-12	1.000000	1.10383e-12	1.000000
rad33	3.24484e-13	1.000000	3.52136e-13	1.000000
rad34	2.18431e-13	1.000000	2.37045e-13	1.000000
rad65	2.12717e-13	1.000000	2.30844e-13	1.000000
rad71	9.76790e-14	1.000000	1.06003e-13	1.000000
rad14	7.87484e-14	1.000000	8.54593e-14	1.000000
rad25	7.73786e-14	1.000000	8.39727e-14	1.000000
rad73	7.68152e-14	1.000000	8.33613e-14	1.000000
rad27	7.37864e-14	1.000000	8.00744e-14	1.000000
rad18	3.18273e-14	1.000000	3.45396e-14	1.000000
rad9	2.27492e-14	1.000000	2.46879e-14	1.000000
rad42	8.24869e-15	1.000000	8.95164e-15	1.000000
rad24	5.17947e-15	1.000000	5.62086e-15	1.000000
rad53	4.92373e-15	1.000000	5.34333e-15	1.000000
rad64	4.38559e-15	1.000000	4.75933e-15	1.000000
rad72	2.77928e-15	1.000000	3.01613e-15	1.000000
rad41	2.71431e-15	1.000000	2.94562e-15	1.000000
rad31	1.57139e-15	1.000000	1.70530e-15	1.000000
PAH8+H	1.11617e-15	1.000000	1.21129e-15	1.000000
rad56	6.87120e-16	1.000000	7.45676e-16	1.000000
rad61	5.78734e-16	1.000000	6.28053e-16	1.000000
rad68syn	3.96658e-16	1.000000	4.30461e-16	1.000000
rad68anti	2.60602e-16	1.000000	2.82810e-16	1.000000
rad40syn	1.40457e-16	1.000000	1.52426e-16	1.000000
rad40anti	8.64912e-17	1.000000	9.38620e-17	1.000000
rad15	1.51140e-17	1.000000	1.64021e-17	1.000000
rad12	2.11990e-19	1.000000	2.30056e-19	1.000000
rad5	2.66810e-21	1.000000	2.89547e-21	1.000000
rad47	2.65373e-23	1.000000	2.87988e-23	1.000000
rad8	9.36121e-30	1.000000	1.01590e-29	1.000000

0.100000000E-02 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	6.78336e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.844027	0.844027	0.998221	0.998221
Benzyl+CH2H2	0.154469	0.998496	0.000000	0.998221
PhCCH+CH3	0.000746184	0.999242	0.000882503	0.999104
PhCHCCH2+H	0.000320499	0.999563	0.000379051	0.999483
PhCCCH3+H	0.000136687	0.999699	0.000161659	0.999644
Ph+Allene	0.000115960	0.999815	0.000137144	0.999781
Ph+MeAc	8.86734e-05	0.999904	0.000104873	0.999886
PhCH2CCH+H	2.52613e-05	0.999929	2.98762e-05	0.999916
rad30	1.89338e-05	0.999948	2.23928e-05	0.999938
rad6	1.88844e-05	0.999967	2.23344e-05	0.999961
PAH7+H	1.64049e-05	0.999983	1.94018e-05	0.999980
PAH9+H	7.24360e-06	0.999991	8.56693e-06	0.999989
rad39	3.97911e-06	0.999995	4.70604e-06	0.999994
rad38	2.36570e-06	0.999997	2.79789e-06	0.999996
rad35	1.98031e-06	0.999999	2.34209e-06	0.999999
rad19anti	5.91572e-07	1.000000	6.99646e-07	0.999999
rad46	1.96396e-07	1.000000	2.32275e-07	1.000000
rad60syn	9.47755e-08	1.000000	1.12090e-07	1.000000
PAH3+H	8.73577e-08	1.000000	1.03317e-07	1.000000
rad23	6.61430e-08	1.000000	7.82266e-08	1.000000
rad37	5.67605e-08	1.000000	6.71300e-08	1.000000
rad60anti	4.82189e-08	1.000000	5.70280e-08	1.000000
rad2	2.51138e-08	1.000000	2.97018e-08	1.000000
rad59	1.44150e-08	1.000000	1.70484e-08	1.000000

rad28	1.24011e-08	1.00000	1.46666e-08	1.00000
rad45	1.07899e-08	1.00000	1.27611e-08	1.00000
rad19syn	7.75706e-09	1.00000	9.17418e-09	1.00000
rad50	4.42330e-09	1.00000	5.23139e-09	1.00000
rad1	4.00814e-09	1.00000	4.74039e-09	1.00000
rad7	2.43735e-09	1.00000	2.88263e-09	1.00000
rad26	1.99774e-09	1.00000	2.36270e-09	1.00000
rad54	1.41375e-09	1.00000	1.67202e-09	1.00000
rad36	8.81733e-10	1.00000	1.04282e-09	1.00000
rad11	7.36126e-10	1.00000	8.70608e-10	1.00000
rad10	7.09110e-10	1.00000	8.38656e-10	1.00000
PhcycC3H3_A+H	3.17064e-10	1.00000	3.74988e-10	1.00000
PAH10+CH3	3.10941e-10	1.00000	3.67747e-10	1.00000
rad3	2.47634e-10	1.00000	2.92874e-10	1.00000
rad51	1.60645e-10	1.00000	1.89993e-10	1.00000
rad4	1.58151e-10	1.00000	1.87043e-10	1.00000
rad67	1.47400e-10	1.00000	1.74328e-10	1.00000
rad52	1.06783e-10	1.00000	1.26291e-10	1.00000
rad70	8.40776e-11	1.00000	9.94377e-11	1.00000
PAH1+H	5.55871e-11	1.00000	6.57422e-11	1.00000
rad62	5.25242e-11	1.00000	6.21198e-11	1.00000
rad55	3.42463e-11	1.00000	4.05027e-11	1.00000
rad43	3.33498e-11	1.00000	3.94424e-11	1.00000
rad13	2.78373e-11	1.00000	3.29229e-11	1.00000
rad58	2.37892e-11	1.00000	2.81353e-11	1.00000
rad20	9.46856e-12	1.00000	1.11984e-11	1.00000
rad21	9.16717e-12	1.00000	1.08419e-11	1.00000
rad22	5.92346e-12	1.00000	7.00561e-12	1.00000
rad34	5.69216e-12	1.00000	6.73205e-12	1.00000
rad65	4.52728e-12	1.00000	5.35437e-12	1.00000
rad71	3.01525e-12	1.00000	3.56610e-12	1.00000
rad73	2.20361e-12	1.00000	2.60619e-12	1.00000
rad9	4.25572e-13	1.00000	5.03319e-13	1.00000
rad53	2.15602e-13	1.00000	2.54990e-13	1.00000
rad33	2.12185e-13	1.00000	2.50949e-13	1.00000
rad42	1.97715e-13	1.00000	2.33835e-13	1.00000
rad64	1.53239e-13	1.00000	1.81234e-13	1.00000
rad72	9.74910e-14	1.00000	1.15301e-13	1.00000
rad41	6.66441e-14	1.00000	7.88192e-14	1.00000
rad24	5.53663e-14	1.00000	6.54811e-14	1.00000
PAH8+H	4.26730e-14	1.00000	5.04688e-14	1.00000
rad18	3.80659e-14	1.00000	4.50201e-14	1.00000
rad56	3.39420e-14	1.00000	4.01428e-14	1.00000
rad25	3.34177e-14	1.00000	3.95227e-14	1.00000
rad27	3.13610e-14	1.00000	3.70903e-14	1.00000
rad14	3.08595e-14	1.00000	3.64972e-14	1.00000
rad61	1.93347e-14	1.00000	2.28670e-14	1.00000
rad68syn	1.40965e-14	1.00000	1.66718e-14	1.00000
rad68anti	9.31868e-15	1.00000	1.10211e-14	1.00000
rad40syn	5.80746e-15	1.00000	6.86842e-15	1.00000
rad40anti	4.05042e-15	1.00000	4.79039e-15	1.00000
rad31	1.07087e-15	1.00000	1.26650e-15	1.00000
rad15	1.97499e-16	1.00000	2.33580e-16	1.00000
rad12	2.79654e-17	1.00000	3.30744e-17	1.00000
rad5	5.41633e-21	1.00000	6.40583e-21	1.00000
rad47	8.54325e-22	1.00000	1.01040e-21	1.00000
rad8	1.56642e-25	1.00000	1.85259e-25	1.00000

0.100000000E-02 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.12228e-16 (1.00)	2.33587e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745322	0.745322	0.996247	0.996247
Benzyl+C2H2	0.251870	0.997192	0.000000	0.996247
PhCCH+CH3	0.00124149	0.998433	0.00165946	0.997906
PhCHCCH2+H	0.000603886	0.999037	0.000807194	0.998714
Ph+Allene	0.000391605	0.999429	0.000523445	0.999237
PhCCCH3+H	0.000180390	0.999609	0.000241121	0.999478
Ph+MeAc	0.000158715	0.999768	0.000212148	0.999690
PhCH2CCH+H	0.000104747	0.999873	0.000140012	0.999830
PAH7+H	4.20040e-05	0.999915	5.61453e-05	0.999887
rad30	3.73181e-05	0.999952	4.98819e-05	0.999936
PAH9+H	1.83084e-05	0.999970	2.44722e-05	0.999961
rad39	1.01671e-05	0.999981	1.35901e-05	0.999974
rad38	6.28910e-06	0.999987	8.40643e-06	0.999983
rad35	4.61876e-06	0.999992	6.17374e-06	0.999989

rad6	3.94593e-06	0.999995	5.27439e-06	0.999994
rad19anti	2.13380e-06	0.999998	2.85218e-06	0.999997
rad46	6.70336e-07	0.999998	8.96015e-07	0.999998
PAH3+H	4.55954e-07	0.999999	6.09458e-07	0.999999
rad60syn	3.14536e-07	0.999999	4.20430e-07	0.999999
rad60anti	1.66150e-07	0.999999	2.22087e-07	0.999999
rad37	1.16573e-07	0.999999	1.55819e-07	0.999999
rad59	7.05314e-08	0.999999	9.42769e-08	1.000000
rad19syn	4.57488e-08	0.999999	6.11508e-08	1.000000
rad50	2.75914e-08	0.999999	3.68805e-08	1.000000
rad23	2.66541e-08	1.000000	3.56277e-08	1.000000
rad54	9.79719e-09	1.000000	1.30956e-08	1.000000
rad2	6.21872e-09	1.000000	8.31235e-09	1.000000
rad45	5.56634e-09	1.000000	7.44034e-09	1.000000
PhcycC3H3_A+H	2.99541e-09	1.000000	4.00386e-09	1.000000
rad28	2.96405e-09	1.000000	3.96194e-09	1.000000
PAH10+CH3	1.59794e-09	1.000000	2.13591e-09	1.000000
rad67	1.31419e-09	1.000000	1.75663e-09	1.000000
rad51	9.98533e-10	1.000000	1.33470e-09	1.000000
rad1	9.67933e-10	1.000000	1.29380e-09	1.000000
rad52	7.62477e-10	1.000000	1.01918e-09	1.000000
rad70	7.38743e-10	1.000000	9.87453e-10	1.000000
rad7	6.37012e-10	1.000000	8.51473e-10	1.000000
PAH1+H	5.48386e-10	1.000000	7.33009e-10	1.000000
rad26	4.83848e-10	1.000000	6.46743e-10	1.000000
rad36	4.55063e-10	1.000000	6.08268e-10	1.000000
rad62	3.04927e-10	1.000000	4.07585e-10	1.000000
rad55	2.94014e-10	1.000000	3.92998e-10	1.000000
rad58	2.53626e-10	1.000000	3.39014e-10	1.000000
rad11	2.24416e-10	1.000000	2.99969e-10	1.000000
rad10	1.66901e-10	1.000000	2.23091e-10	1.000000
rad43	1.43892e-10	1.000000	1.92335e-10	1.000000
rad3	6.34068e-11	1.000000	8.47537e-11	1.000000
rad34	6.21555e-11	1.000000	8.30812e-11	1.000000
rad4	4.13621e-11	1.000000	5.52873e-11	1.000000
rad65	3.00964e-11	1.000000	4.02289e-11	1.000000
rad20	2.64511e-11	1.000000	3.53563e-11	1.000000
rad21	2.51492e-11	1.000000	3.36160e-11	1.000000
rad13	1.35090e-11	1.000000	1.80570e-11	1.000000
rad71	9.37883e-12	1.000000	1.25364e-11	1.000000
rad73	6.75223e-12	1.000000	9.02548e-12	1.000000
rad9	4.77310e-12	1.000000	6.38004e-12	1.000000
rad53	3.51671e-12	1.000000	4.70067e-12	1.000000
rad22	2.56071e-12	1.000000	3.42281e-12	1.000000
rad42	1.92009e-12	1.000000	2.56652e-12	1.000000
rad64	1.69450e-12	1.000000	2.26499e-12	1.000000
rad56	6.84079e-13	1.000000	9.14385e-13	1.000000
rad41	4.41609e-13	1.000000	5.90283e-13	1.000000
rad72	3.13757e-13	1.000000	4.19388e-13	1.000000
rad24	2.87058e-13	1.000000	3.83701e-13	1.000000
rad33	2.49094e-13	1.000000	3.32956e-13	1.000000
PAH8+H	1.71279e-13	1.000000	2.28942e-13	1.000000
rad68syn	1.33363e-13	1.000000	1.78261e-13	1.000000
rad68anti	9.00920e-14	1.000000	1.20423e-13	1.000000
rad18	7.68994e-14	1.000000	1.02789e-13	1.000000
rad61	7.34130e-14	1.000000	9.81286e-14	1.000000
rad40syn	2.83236e-14	1.000000	3.78591e-14	1.000000
rad25	2.14216e-14	1.000000	2.86335e-14	1.000000
rad40anti	1.87729e-14	1.000000	2.50931e-14	1.000000
rad27	1.85417e-14	1.000000	2.47841e-14	1.000000
rad14	1.57268e-14	1.000000	2.10215e-14	1.000000
rad15	1.39303e-15	1.000000	1.86201e-15	1.000000
rad12	7.13969e-16	1.000000	9.54339e-16	1.000000
rad31	5.78315e-16	1.000000	7.73014e-16	1.000000
rad5	9.92977e-21	1.000000	1.32728e-20	1.000000
rad47	7.11916e-21	1.000000	9.51594e-21	1.000000
rad8	8.26467e-22	1.000000	1.10471e-21	1.000000

0.100000000E-02 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	9.21769e-16 (1.00)	5.91948e-16 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.637600	0.637600	0.992858	0.992858
Benzyl+C2H2	0.357813	0.995413	0.000000	0.992858
PhCCH+CH3	0.00168529	0.997098	0.00262429	0.995482
PhCHCCH2+H	0.000988059	0.998086	0.00153858	0.997021

Ph+Allene	0.000956825	0.999043	0.00148995	0.998511
PhCH2CCH+H	0.000305642	0.999349	0.000475940	0.998987
Ph+MeAc	0.000221706	0.999571	0.000345235	0.999332
PhCCCH3+H	0.000192574	0.999763	0.000299872	0.999632
PAH7+H	8.18815e-05	0.999845	0.000127504	0.999759
rad30	6.20698e-05	0.999907	9.66537e-05	0.999856
PAH9+H	3.81841e-05	0.999945	5.94594e-05	0.999915
rad39	1.95090e-05	0.999965	3.03790e-05	0.999946
rad38	1.36551e-05	0.999978	2.12635e-05	0.999967
rad35	9.01944e-06	0.999987	1.40449e-05	0.999981
rad19anti	5.95513e-06	0.999993	9.27319e-06	0.999990
rad46	1.77489e-06	0.999995	2.76382e-06	0.999993
PAH3+H	1.66002e-06	0.999997	2.58495e-06	0.999996
rad60syn	7.95281e-07	0.999998	1.23839e-06	0.999997
rad6	7.73880e-07	0.999998	1.20507e-06	0.999998
rad60anti	4.32685e-07	0.999999	6.73768e-07	0.999999
rad59	2.41976e-07	0.999999	3.76801e-07	0.999999
rad37	1.83212e-07	0.999999	2.85294e-07	1.000000
rad19syn	1.72532e-07	0.999999	2.68663e-07	1.000000
rad50	1.19959e-07	1.000000	1.86798e-07	1.000000
rad54	4.18735e-08	1.000000	6.52045e-08	1.000000
PhcycC3H3_A+H	1.64018e-08	1.000000	2.55405e-08	1.000000
rad23	1.01834e-08	1.000000	1.58574e-08	1.000000
rad67	7.69159e-09	1.000000	1.19772e-08	1.000000
PAH10+CH3	5.49799e-09	1.000000	8.56135e-09	1.000000
rad51	5.27630e-09	1.000000	8.21615e-09	1.000000
rad52	3.91706e-09	1.000000	6.09956e-09	1.000000
rad70	3.82749e-09	1.000000	5.96008e-09	1.000000
PAH1+H	3.11804e-09	1.000000	4.85535e-09	1.000000
rad45	2.54752e-09	1.000000	3.96695e-09	1.000000
rad58	1.60287e-09	1.000000	2.49595e-09	1.000000
rad55	1.47823e-09	1.000000	2.30187e-09	1.000000
rad2	1.29934e-09	1.000000	2.02330e-09	1.000000
rad62	1.10218e-09	1.000000	1.71629e-09	1.000000
rad28	6.67385e-10	1.000000	1.03924e-09	1.000000
rad43	3.95557e-10	1.000000	6.15953e-10	1.000000
rad34	3.84902e-10	1.000000	5.99361e-10	1.000000
rad36	2.20130e-10	1.000000	3.42783e-10	1.000000
rad1	2.15541e-10	1.000000	3.35636e-10	1.000000
rad7	1.75497e-10	1.000000	2.73280e-10	1.000000
rad65	1.66814e-10	1.000000	2.59760e-10	1.000000
rad26	1.13613e-10	1.000000	1.76916e-10	1.000000
rad11	8.15140e-11	1.000000	1.26932e-10	1.000000
rad20	6.04507e-11	1.000000	9.41326e-11	1.000000
rad21	5.11680e-11	1.000000	7.96778e-11	1.000000
rad10	4.27856e-11	1.000000	6.66248e-11	1.000000
rad53	2.97840e-11	1.000000	4.63791e-11	1.000000
rad9	1.72282e-11	1.000000	2.68273e-11	1.000000
rad3	1.60153e-11	1.000000	2.49387e-11	1.000000
rad64	1.26577e-11	1.000000	1.97102e-11	1.000000
rad4	1.10741e-11	1.000000	1.72443e-11	1.000000
rad13	1.09909e-11	1.000000	1.71148e-11	1.000000
rad42	1.04568e-11	1.000000	1.62831e-11	1.000000
rad71	9.93495e-12	1.000000	1.54705e-11	1.000000
rad73	7.79503e-12	1.000000	1.21383e-11	1.000000
rad56	7.68746e-12	1.000000	1.19708e-11	1.000000
rad41	1.72684e-12	1.000000	2.68900e-12	1.000000
rad68syn	1.26692e-12	1.000000	1.97282e-12	1.000000
rad22	1.07064e-12	1.000000	1.66718e-12	1.000000
rad68anti	8.58001e-13	1.000000	1.33606e-12	1.000000
rad24	5.74734e-13	1.000000	8.94963e-13	1.000000
PAH8+H	5.35234e-13	1.000000	8.33454e-13	1.000000
rad33	3.82726e-13	1.000000	5.95972e-13	1.000000
rad72	3.25660e-13	1.000000	5.07110e-13	1.000000
rad18	2.23125e-13	1.000000	3.47445e-13	1.000000
rad61	1.80005e-13	1.000000	2.80300e-13	1.000000
rad40syn	1.37331e-13	1.000000	2.13849e-13	1.000000
rad40anti	6.37271e-14	1.000000	9.92345e-14	1.000000
rad25	2.24779e-14	1.000000	3.50022e-14	1.000000
rad27	1.44242e-14	1.000000	2.24610e-14	1.000000
rad14	1.09740e-14	1.000000	1.70884e-14	1.000000
rad15	4.04169e-15	1.000000	6.29363e-15	1.000000
rad12	3.93840e-15	1.000000	6.13279e-15	1.000000
rad31	3.17830e-16	1.000000	4.94918e-16	1.000000
rad8	5.05674e-19	1.000000	7.87426e-19	1.000000
rad47	3.50641e-20	1.000000	5.46011e-20	1.000000
rad5	1.78116e-20	1.000000	2.77358e-20	1.000000

0.100000000E-02 Pa, 1000.00000 K

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Rate constant	True (fraction)		Effective (fraction)	
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Total	2.23691e-15	(1.00)	1.20781e-15	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.533143	0.533143	0.987405	0.987405
Benzyl+C2H2	0.460056	0.993199	0.00000	0.987405
PhCCH+CH3	0.00197843	0.995177	0.00366414	0.991069
Ph+Allene	0.00184724	0.997025	0.00342117	0.994490
PhCHCCH2+H	0.00145010	0.998475	0.00268566	0.997176
PhCH2CCH+H	0.000695142	0.999170	0.00128743	0.998463
Ph+MeAc	0.000262362	0.999432	0.000485906	0.998949
PhCCCH3+H	0.000178024	0.999610	0.000329709	0.999279
PAH7+H	0.000130564	0.999741	0.000241810	0.999521
rad30	9.13367e-05	0.999832	0.000169160	0.999690
PAH9+H	6.89575e-05	0.999901	0.000127712	0.999818
rad39	3.03502e-05	0.999932	5.62099e-05	0.999874
rad38	2.54984e-05	0.999957	4.72242e-05	0.999921
rad35	1.54299e-05	0.999972	2.85768e-05	0.999950
rad19anti	1.36963e-05	0.999986	2.53662e-05	0.999975
PAH3+H	4.67731e-06	0.999991	8.66259e-06	0.999984
rad46	3.90013e-06	0.999995	7.22322e-06	0.999991
rad60syn	1.65647e-06	0.999996	3.06785e-06	0.999994
rad60anti	9.23125e-07	0.999997	1.70967e-06	0.999996
rad59	6.45415e-07	0.999998	1.19534e-06	0.999997
rad19syn	4.72656e-07	0.999998	8.75380e-07	0.999998
rad50	4.02764e-07	0.999999	7.45937e-07	0.999999
rad37	2.45631e-07	0.999999	4.54920e-07	0.999999
rad6	1.61701e-07	0.999999	2.99478e-07	0.999999
rad54	1.26767e-07	0.999999	2.34778e-07	1.000000
PhcycC3H3_A+H	6.09445e-08	0.999999	1.12872e-07	1.000000
rad67	3.29377e-08	0.999999	6.10021e-08	1.000000
rad51	2.40129e-08	0.999999	4.44729e-08	1.000000
rad52	1.56109e-08	0.999999	2.89121e-08	1.000000
PAH10+CH3	1.49691e-08	0.999999	2.77234e-08	1.000000
rad70	1.36644e-08	1.000000	2.53071e-08	1.000000
PAH1+H	1.19266e-08	1.000000	2.20887e-08	1.000000
rad58	7.00677e-09	1.000000	1.29769e-08	1.000000
rad55	5.08721e-09	1.000000	9.42174e-09	1.000000
rad23	4.39352e-09	1.000000	8.13699e-09	1.000000
rad62	2.86012e-09	1.000000	5.29707e-09	1.000000
rad34	1.59486e-09	1.000000	2.95375e-09	1.000000
rad45	1.23103e-09	1.000000	2.27993e-09	1.000000
rad43	8.01735e-10	1.000000	1.48485e-09	1.000000
rad65	7.66038e-10	1.000000	1.41874e-09	1.000000
rad2	2.91904e-10	1.000000	5.40620e-10	1.000000
rad28	1.61630e-10	1.000000	2.99346e-10	1.000000
rad53	1.57217e-10	1.000000	2.91174e-10	1.000000
rad36	1.10333e-10	1.000000	2.04341e-10	1.000000
rad20	8.81805e-11	1.000000	1.63314e-10	1.000000
rad21	6.41705e-11	1.000000	1.18847e-10	1.000000
rad7	6.35707e-11	1.000000	1.17736e-10	1.000000
rad64	6.34152e-11	1.000000	1.17448e-10	1.000000
rad1	5.50798e-11	1.000000	1.02010e-10	1.000000
rad56	5.17603e-11	1.000000	9.58625e-11	1.000000
rad11	4.95231e-11	1.000000	9.17191e-11	1.000000
rad42	3.80431e-11	1.000000	7.04575e-11	1.000000
rad26	2.94935e-11	1.000000	5.46233e-11	1.000000
rad9	2.47348e-11	1.000000	4.58100e-11	1.000000
rad10	1.62253e-11	1.000000	3.00501e-11	1.000000
rad73	1.61634e-11	1.000000	2.99354e-11	1.000000
rad13	1.45016e-11	1.000000	2.68576e-11	1.000000
rad71	1.18819e-11	1.000000	2.20059e-11	1.000000
rad68syn	8.80427e-12	1.000000	1.63059e-11	1.000000
rad68anti	5.92786e-12	1.000000	1.09787e-11	1.000000
rad41	5.16137e-12	1.000000	9.55910e-12	1.000000
rad3	4.76434e-12	1.000000	8.82378e-12	1.000000
PAH8+H	4.02797e-12	1.000000	7.45998e-12	1.000000
rad4	3.47075e-12	1.000000	6.42799e-12	1.000000
rad40syn	1.04183e-12	1.000000	1.92951e-12	1.000000
rad61	8.38956e-13	1.000000	1.55378e-12	1.000000
rad18	7.83096e-13	1.000000	1.45033e-12	1.000000
rad24	5.90769e-13	1.000000	1.09413e-12	1.000000
rad22	5.25964e-13	1.000000	9.74110e-13	1.000000
rad33	4.74449e-13	1.000000	8.78701e-13	1.000000
rad40anti	4.49150e-13	1.000000	8.31847e-13	1.000000
rad72	2.27468e-13	1.000000	4.21282e-13	1.000000
rad25	3.15221e-14	1.000000	5.83803e-14	1.000000
rad27	1.13805e-14	1.000000	2.10772e-14	1.000000

rad14	9.38286e-15	1.000000	1.73775e-14	1.000000
rad12	8.61622e-15	1.000000	1.59576e-14	1.000000
rad15	5.95826e-15	1.000000	1.10350e-14	1.000000
rad31	1.86010e-16	1.000000	3.44498e-16	1.000000
rad8	3.09658e-17	1.000000	5.73501e-17	1.000000
rad47	1.60721e-19	1.000000	2.97662e-19	1.000000
rad5	3.71654e-20	1.000000	6.88320e-20	1.000000

0.1000000000E-02 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.11075e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.550759	0.550759	0.000000	0.000000
Indene+H	0.439889	0.990648	0.979181	0.979181
Ph+Allene	0.00299528	0.993643	0.00666743	0.985848
PhCCH+CH3	0.00208759	0.995731	0.00464692	0.990495
PhCHCCH2+H	0.00194544	0.997676	0.00433050	0.994826
PhCH2CCH+H	0.00132191	0.998998	0.00294254	0.997768
Ph+MeAc	0.000277389	0.999276	0.000617462	0.998386
PAH7+H	0.000179385	0.999455	0.000399307	0.998785
PhCCCH3+H	0.000149166	0.999604	0.000332040	0.999117
rad30	0.000123015	0.999727	0.000273827	0.999391
PAH9+H	0.000111698	0.999839	0.000248636	0.999640
rad38	4.24986e-05	0.999881	9.46007e-05	0.999734
rad39	4.04279e-05	0.999922	8.99915e-05	0.999824
rad19anti	2.71780e-05	0.999949	6.04975e-05	0.999885
rad35	2.39106e-05	0.999973	5.32243e-05	0.999938
PAH3+H	1.09195e-05	0.999984	2.43065e-05	0.999962
rad46	7.44887e-06	0.999991	1.65810e-05	0.999979
rad60syn	2.99524e-06	0.999994	6.66734e-06	0.999986
rad60anti	1.70291e-06	0.999996	3.79064e-06	0.999989
rad59	1.43231e-06	0.999997	3.18828e-06	0.999993
rad50	1.10352e-06	0.999998	2.45642e-06	0.999995
rad19syn	1.02396e-06	1.000000	2.27932e-06	0.999997
rad37	3.04613e-07	1.000000	6.78061e-07	0.999998
rad54	2.97942e-07	1.000000	6.63211e-07	0.999999
PhcycC3H3_A+H	1.70470e-07	1.000000	3.79461e-07	0.999999
rad67	1.11022e-07	1.000000	2.47133e-07	0.999999
rad51	8.67185e-08	1.000000	1.93033e-07	0.999999
rad52	4.95173e-08	1.000000	1.10224e-07	1.000000
rad6	3.95560e-08	1.000000	8.80506e-08	1.000000
rad70	3.72392e-08	1.000000	8.28934e-08	1.000000
PAH10+CH3	3.55791e-08	1.000000	7.91982e-08	1.000000
PAH1+H	3.40454e-08	1.000000	7.57842e-08	1.000000
rad58	2.33986e-08	1.000000	5.20846e-08	1.000000
rad55	1.32727e-08	1.000000	2.95448e-08	1.000000
rad62	5.84590e-09	1.000000	1.30128e-08	1.000000
rad34	4.93282e-09	1.000000	1.09803e-08	1.000000
rad65	2.75601e-09	1.000000	6.13480e-09	1.000000
rad23	2.05343e-09	1.000000	4.57089e-09	1.000000
rad43	1.31347e-09	1.000000	2.92376e-09	1.000000
rad45	6.20131e-10	1.000000	1.38039e-09	1.000000
rad53	5.86811e-10	1.000000	1.30623e-09	1.000000
rad56	2.36338e-10	1.000000	5.26082e-10	1.000000
rad64	2.26743e-10	1.000000	5.04725e-10	1.000000
rad42	1.03256e-10	1.000000	2.29846e-10	1.000000
rad73	8.98468e-11	1.000000	1.99997e-10	1.000000
rad20	7.93883e-11	1.000000	1.76716e-10	1.000000
rad2	7.50041e-11	1.000000	1.66957e-10	1.000000
rad36	5.67618e-11	1.000000	1.26350e-10	1.000000
rad71	5.44373e-11	1.000000	1.21176e-10	1.000000
rad11	5.41600e-11	1.000000	1.20559e-10	1.000000
rad21	5.10824e-11	1.000000	1.13708e-10	1.000000
rad28	4.56062e-11	1.000000	1.01518e-10	1.000000
rad68syn	4.26335e-11	1.000000	9.49010e-11	1.000000
rad7	3.99244e-11	1.000000	8.88706e-11	1.000000
rad68anti	2.85419e-11	1.000000	6.35335e-11	1.000000
PAH8+H	2.67659e-11	1.000000	5.95803e-11	1.000000
rad9	2.39765e-11	1.000000	5.33712e-11	1.000000
rad13	1.71876e-11	1.000000	3.82592e-11	1.000000
rad1	1.54785e-11	1.000000	3.44548e-11	1.000000
rad41	1.22127e-11	1.000000	2.71852e-11	1.000000
rad10	9.07595e-12	1.000000	2.02028e-11	1.000000
rad26	9.04252e-12	1.000000	2.01284e-11	1.000000
rad40syn	6.10110e-12	1.000000	1.35809e-11	1.000000
rad61	4.18705e-12	1.000000	9.32027e-12	1.000000

rad40anti	2.75568e-12	1.00000	6.13407e-12	1.000000
rad18	2.45322e-12	1.00000	5.46081e-12	1.000000
rad3	1.60450e-12	1.00000	3.57157e-12	1.000000
rad4	1.20501e-12	1.00000	2.68233e-12	1.000000
rad24	4.56170e-13	1.00000	1.01542e-12	1.000000
rad33	3.95326e-13	1.00000	8.79986e-13	1.000000
rad72	3.50737e-13	1.00000	7.80733e-13	1.000000
rad22	3.03114e-13	1.00000	6.74724e-13	1.000000
rad25	3.94698e-14	1.00000	8.78588e-14	1.000000
rad12	1.26342e-14	1.00000	2.81234e-14	1.000000
rad14	7.53833e-15	1.00000	1.67801e-14	1.000000
rad27	7.07292e-15	1.00000	1.57442e-14	1.000000
rad15	6.78931e-15	1.00000	1.51128e-14	1.000000
rad8	3.02695e-16	1.00000	6.73791e-16	1.000000
rad31	1.11584e-16	1.00000	2.48384e-16	1.000000
rad47	5.98422e-19	1.00000	1.33207e-18	1.000000
rad5	9.30939e-20	1.00000	2.07225e-19	1.000000

0.100000000E-02 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.84330e-15 (1.00)	3.30079e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.626747	0.626747	0.00000	0.00000
Indene+H	0.361139	0.987886	0.967544	0.967544
Ph+Allene	0.00426331	0.992149	0.0114220	0.978966
PhCHCCH2+H	0.00242727	0.994577	0.00650302	0.985469
PhCH2CCH+H	0.00220912	0.996786	0.00591855	0.991388
PhCCH+CH3	0.00203529	0.998821	0.00545284	0.996840
Ph+MeAc	0.000271659	0.999093	0.000727813	0.997568
PAH7+H	0.000220958	0.999314	0.000591978	0.998160
PAH9+H	0.000166477	0.999480	0.000446017	0.998606
rad30	0.000155353	0.999635	0.000416215	0.999022
PhCCCH3+H	0.000117028	0.999752	0.000313536	0.999336
rad38	6.49371e-05	0.999817	0.000173976	0.999510
rad19anti	4.80909e-05	0.999865	0.000128843	0.999639
rad39	4.80572e-05	0.999914	0.000128752	0.999768
rad35	3.43900e-05	0.999948	9.21358e-05	0.999860
PAH3+H	2.21253e-05	0.999970	5.92770e-05	0.999919
rad46	1.27764e-05	0.999983	3.42298e-05	0.999953
rad60syn	4.87439e-06	0.999988	1.30592e-05	0.999966
rad60anti	2.81860e-06	0.999991	7.55145e-06	0.999974
rad59	2.76936e-06	0.999993	7.41953e-06	0.999981
rad50	2.57987e-06	0.999996	6.91184e-06	0.999988
rad19syn	1.86136e-06	0.999998	4.98686e-06	0.999993
rad54	5.79323e-07	0.999998	1.55209e-06	0.999995
PhcycC3H3_A+H	3.85542e-07	0.999999	1.03292e-06	0.999996
rad37	3.71911e-07	0.999999	9.96403e-07	0.999997
rad67	3.10058e-07	0.999999	8.30690e-07	0.999998
rad51	2.56453e-07	1.000000	6.87075e-07	0.999998
rad52	1.30827e-07	1.000000	3.50505e-07	0.999999
rad70	8.31663e-08	1.000000	2.22815e-07	0.999999
PAH10+CH3	7.86287e-08	1.000000	2.10658e-07	0.999999
PAH1+H	7.84259e-08	1.000000	2.10114e-07	0.999999
rad58	6.38231e-08	1.000000	1.70991e-07	0.999999
rad55	2.81615e-08	1.000000	7.54488e-08	0.999999
rad6	1.24891e-08	1.000000	3.34601e-08	0.999999
rad34	1.22937e-08	1.000000	3.29367e-08	1.000000
rad62	1.00322e-08	1.000000	2.68777e-08	1.000000
rad65	8.08075e-09	1.000000	2.16495e-08	1.000000
rad43	1.86217e-09	1.000000	4.98903e-09	1.000000
rad53	1.69057e-09	1.000000	4.52928e-09	1.000000
rad23	1.01457e-09	1.000000	2.71818e-09	1.000000
rad56	8.06536e-10	1.000000	2.16083e-09	1.000000
rad64	6.30284e-10	1.000000	1.68862e-09	1.000000
rad73	4.69254e-10	1.000000	1.25720e-09	1.000000
rad45	3.21614e-10	1.000000	8.61650e-10	1.000000
rad71	3.21606e-10	1.000000	8.61629e-10	1.000000
rad42	2.25981e-10	1.000000	6.05437e-10	1.000000
rad68syn	1.55942e-10	1.000000	4.17791e-10	1.000000
PAH8+H	1.30658e-10	1.000000	3.50051e-10	1.000000
rad68anti	1.03882e-10	1.000000	2.78315e-10	1.000000
rad11	6.61065e-11	1.000000	1.77109e-10	1.000000
rad20	5.25327e-11	1.000000	1.40743e-10	1.000000
rad7	4.31409e-11	1.000000	1.15581e-10	1.000000
rad21	3.17172e-11	1.000000	8.49749e-11	1.000000
rad36	2.98942e-11	1.000000	8.00910e-11	1.000000

rad40syn	2.64856e-11	1.00000	7.09587e-11	1.000000
rad41	2.43391e-11	1.00000	6.52080e-11	1.000000
rad2	2.11559e-11	1.00000	5.66797e-11	1.000000
rad9	2.07727e-11	1.00000	5.56532e-11	1.000000
rad61	1.76366e-11	1.00000	4.72511e-11	1.000000
rad28	1.61229e-11	1.00000	4.31956e-11	1.000000
rad13	1.39191e-11	1.00000	3.72912e-11	1.000000
rad40anti	1.25585e-11	1.00000	3.36460e-11	1.000000
rad10	5.91527e-12	1.00000	1.58479e-11	1.000000
rad18	5.21276e-12	1.00000	1.39657e-11	1.000000
rad1	4.59229e-12	1.00000	1.23034e-11	1.000000
rad26	3.40138e-12	1.00000	9.11279e-12	1.000000
rad72	2.24297e-12	1.00000	6.00924e-12	1.000000
rad3	5.83741e-13	1.00000	1.56393e-12	1.000000
rad4	4.46351e-13	1.00000	1.19584e-12	1.000000
rad24	3.33437e-13	1.00000	8.93325e-13	1.000000
rad33	2.52074e-13	1.00000	6.75343e-13	1.000000
rad22	2.47810e-13	1.00000	6.63920e-13	1.000000
rad25	3.68564e-14	1.00000	9.87436e-14	1.000000
rad12	1.57454e-14	1.00000	4.21844e-14	1.000000
rad15	9.05709e-15	1.00000	2.42653e-14	1.000000
rad14	4.94527e-15	1.00000	1.32491e-14	1.000000
rad27	3.34253e-15	1.00000	8.95512e-15	1.000000
rad8	9.89268e-16	1.00000	2.65039e-15	1.000000
rad31	6.76618e-17	1.00000	1.81276e-16	1.000000
rad47	1.81366e-18	1.00000	4.85906e-18	1.000000
rad5	2.66841e-19	1.00000	7.14907e-19	1.000000

0.100000000E-02 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.52810e-14 (1.00)	4.76644e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.688080	0.688080	0.00000	0.00000
Indene+H	0.296944	0.985024	0.951986	0.951986
Ph+Allene	0.00550433	0.990528	0.0176466	0.969633
PhCH2CCH+H	0.00336231	0.993891	0.0107794	0.980412
PhCHCCH2+H	0.00286585	0.996756	0.00918775	0.989600
PhCCH+CH3	0.00187197	0.998628	0.00600145	0.995601
Ph+MeAc	0.000252917	0.998881	0.000810838	0.996412
PAH7+H	0.000251839	0.999133	0.000807383	0.997219
PAH9+H	0.000232566	0.999366	0.000745593	0.997965
rad30	0.000187145	0.999553	0.000599977	0.998565
rad38	9.27360e-05	0.999646	0.000297307	0.998862
PhCCCH3+H	8.81974e-05	0.999734	0.000282756	0.999145
rad19anti	7.76866e-05	0.999812	0.000249059	0.999394
rad39	5.27139e-05	0.999864	0.000168998	0.999563
rad35	4.67240e-05	0.999911	0.000149795	0.999713
PAH3+H	4.01931e-05	0.999951	0.000128857	0.999842
rad46	2.01482e-05	0.999971	6.45941e-05	0.999906
rad60syn	7.32140e-06	0.999979	2.34720e-05	0.999930
rad50	5.32223e-06	0.999984	1.70628e-05	0.999947
rad59	4.81766e-06	0.999989	1.54452e-05	0.999962
rad60anti	4.29551e-06	0.999993	1.37712e-05	0.999976
rad19syn	2.96345e-06	0.999996	9.50065e-06	0.999986
rad54	9.75310e-07	0.999997	3.12679e-06	0.999989
rad67	7.44259e-07	0.999998	2.38605e-06	0.999991
PhcycC3H3_A+H	7.41843e-07	0.999999	2.37831e-06	0.999994
rad51	6.46610e-07	0.999999	2.07300e-06	0.999996
rad37	4.66728e-07	1.000000	1.49630e-06	0.999997
rad52	2.99178e-07	1.000000	9.59147e-07	0.999998
PAH10+CH3	1.66597e-07	1.000000	5.34100e-07	0.999999
rad70	1.60097e-07	1.000000	5.13264e-07	0.999999
PAH1+H	1.54575e-07	1.000000	4.95560e-07	1.000000
rad58	1.48960e-07	1.000000	4.77556e-07	1.000000
rad55	5.10750e-08	1.000000	1.63744e-07	1.000000
rad34	2.60671e-08	1.000000	8.35699e-08	1.000000
rad65	2.01515e-08	1.000000	6.46046e-08	1.000000
rad62	1.51327e-08	1.000000	4.85146e-08	1.000000
rad6	5.39515e-09	1.000000	1.72966e-08	1.000000
rad53	3.99906e-09	1.000000	1.28208e-08	1.000000
rad43	2.42227e-09	1.000000	7.76566e-09	1.000000
rad56	2.20472e-09	1.000000	7.06821e-09	1.000000
rad73	1.94795e-09	1.000000	6.24502e-09	1.000000
rad71	1.52559e-09	1.000000	4.89096e-09	1.000000
rad64	1.45724e-09	1.000000	4.67182e-09	1.000000
rad23	5.27429e-10	1.000000	1.69091e-09	1.000000

PAH8+H	4.97100e-10	1.00000	1.59368e-09	1.00000
rad68syn	4.61124e-10	1.00000	1.47834e-09	1.00000
rad42	4.21654e-10	1.00000	1.35180e-09	1.00000
rad68anti	3.05852e-10	1.00000	9.80545e-10	1.00000
rad45	1.71310e-10	1.00000	5.49211e-10	1.00000
rad40syn	9.09573e-11	1.00000	2.91604e-10	1.00000
rad61	6.30369e-11	1.00000	2.02093e-10	1.00000
rad11	6.23337e-11	1.00000	1.99839e-10	1.00000
rad7	4.82414e-11	1.00000	1.54659e-10	1.00000
rad40anti	4.50273e-11	1.00000	1.44355e-10	1.00000
rad41	4.39816e-11	1.00000	1.41003e-10	1.00000
rad20	3.18171e-11	1.00000	1.02004e-10	1.00000
rad21	1.87708e-11	1.00000	6.01781e-11	1.00000
rad9	1.70196e-11	1.00000	5.45641e-11	1.00000
rad36	1.61427e-11	1.00000	5.17528e-11	1.00000
rad72	1.45719e-11	1.00000	4.67168e-11	1.00000
rad13	8.41631e-12	1.00000	2.69823e-11	1.00000
rad28	7.54434e-12	1.00000	2.41868e-11	1.00000
rad18	6.76645e-12	1.00000	2.16929e-11	1.00000
rad2	6.33785e-12	1.00000	2.03188e-11	1.00000
rad10	3.44437e-12	1.00000	1.10425e-11	1.00000
rad26	1.55556e-12	1.00000	4.98704e-12	1.00000
rad1	1.41783e-12	1.00000	4.54550e-12	1.00000
rad22	4.11847e-13	1.00000	1.32036e-12	1.00000
rad24	2.44030e-13	1.00000	7.82347e-13	1.00000
rad3	2.24452e-13	1.00000	7.19583e-13	1.00000
rad4	1.73754e-13	1.00000	5.57045e-13	1.00000
rad33	1.48946e-13	1.00000	4.77512e-13	1.00000
rad25	2.76149e-14	1.00000	8.85318e-14	1.00000
rad15	2.40188e-14	1.00000	7.70031e-14	1.00000
rad12	1.79601e-14	1.00000	5.75791e-14	1.00000
rad14	2.72045e-15	1.00000	8.72161e-15	1.00000
rad8	1.89596e-15	1.00000	6.07834e-15	1.00000
rad27	1.35348e-15	1.00000	4.33917e-15	1.00000
rad31	4.14051e-17	1.00000	1.32742e-16	1.00000
rad47	4.64687e-18	1.00000	1.48976e-17	1.00000
rad5	7.83464e-19	1.00000	2.51174e-18	1.00000

0.100000000E-02 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.46691e-14 (1.00)	6.50155e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.736450	0.736450	0.00000	0.00000
Indene+H	0.245659	0.982109	0.932117	0.932117
Ph+Allene	0.00660861	0.988718	0.0250754	0.957192
PhCH2CCH+H	0.00478128	0.993499	0.0181419	0.975334
PhCHCCH2+H	0.00325578	0.996755	0.0123536	0.987688
PhCCH+CH3	0.00165084	0.998406	0.00626387	0.993952
PAH9+H	0.000308662	0.998714	0.00117117	0.995123
PAH7+H	0.000272630	0.998987	0.00103445	0.996157
Ph+MeAc	0.000228420	0.999215	0.000866707	0.997024
rad30	0.000217655	0.999433	0.000825859	0.997850
rad38	0.000125529	0.999558	0.000476301	0.998326
rad19anti	0.000116511	0.999675	0.000442085	0.998768
PAH3+H	6.69984e-05	0.999742	0.000254215	0.999023
PhCCCH3+H	6.53818e-05	0.999807	0.000248081	0.999271
rad35	6.07397e-05	0.999868	0.000230468	0.999501
rad39	5.49305e-05	0.999923	0.000208426	0.999710
rad46	2.97185e-05	0.999953	0.000112763	0.999822
rad60syn	1.03332e-05	0.999963	3.92077e-05	0.999862
rad50	9.93215e-06	0.999973	3.76861e-05	0.999899
rad59	7.71556e-06	0.999981	2.92756e-05	0.999928
rad60anti	6.13929e-06	0.999987	2.32946e-05	0.999952
rad19syn	4.26609e-06	0.999991	1.61870e-05	0.999968
rad67	1.57759e-06	0.999993	5.98594e-06	0.999974
rad54	1.46998e-06	0.999994	5.57763e-06	0.999980
rad51	1.43446e-06	0.999996	5.44286e-06	0.999985
PhcycC3H3_A+H	1.26043e-06	0.999997	4.78252e-06	0.999990
rad37	6.13241e-07	0.999997	2.32685e-06	0.999992
rad52	6.09462e-07	0.999998	2.31251e-06	0.999994
PAH10+CH3	3.40071e-07	0.999998	1.29035e-06	0.999996
rad58	3.07503e-07	0.999999	1.16677e-06	0.999997
rad70	2.75599e-07	0.999999	1.04572e-06	0.999998
PAH1+H	2.72544e-07	0.999999	1.03413e-06	0.999999
rad55	8.21114e-08	0.999999	3.11560e-07	0.999999
rad34	4.89123e-08	0.999999	1.85591e-07	0.999999

rad65	4.41611e-08	0.999999	1.67563e-07	1.000000
rad62	2.07591e-08	0.999999	7.87674e-08	1.000000
rad53	8.12265e-09	0.999999	3.08202e-08	1.000000
rad73	6.62701e-09	0.999999	2.51452e-08	1.000000
rad71	5.83714e-09	0.999999	2.21482e-08	1.000000
rad56	1.55702e-09	0.999999	1.92564e-08	1.000000
rad6	3.14308e-09	0.999999	1.19259e-08	1.000000
rad43	3.05586e-09	0.999999	1.15950e-08	1.000000
rad64	2.94786e-09	0.999999	1.11852e-08	1.000000
PAH8+H	1.55761e-09	0.999999	5.91013e-09	1.000000
rad68syn	1.15822e-09	0.999999	4.39468e-09	1.000000
rad68anti	7.65285e-10	0.999999	2.90376e-09	1.000000
rad42	6.99014e-10	0.999999	2.65230e-09	1.000000
rad23	2.88362e-10	0.999999	1.09415e-09	1.000000
rad40syn	2.60578e-10	0.999999	9.88723e-10	1.000000
rad61	1.94742e-10	0.999999	7.38918e-10	1.000000
rad40anti	1.33994e-10	0.999999	5.08419e-10	1.000000
rad45	9.38249e-11	0.999999	3.56005e-10	1.000000
rad41	7.69002e-11	0.999999	2.91787e-10	1.000000
rad72	7.37286e-11	0.999999	2.79752e-10	1.000000
rad11	4.38922e-11	0.999999	1.66543e-10	1.000000
rad7	4.08716e-11	0.999999	1.55081e-10	1.000000
rad20	1.95004e-11	0.999999	7.39915e-11	1.000000
rad9	1.34510e-11	0.999999	5.10379e-11	1.000000
rad21	1.13740e-11	0.999999	4.31570e-11	1.000000
rad36	8.95774e-12	0.999999	3.39888e-11	1.000000
rad18	5.84760e-12	0.999999	2.21878e-11	1.000000
rad28	4.71778e-12	0.999999	1.79009e-11	1.000000
rad13	4.54443e-12	0.999999	1.72432e-11	1.000000
rad2	1.98886e-12	0.999999	7.54643e-12	1.000000
rad10	1.60407e-12	0.999999	6.08642e-12	1.000000
rad22	1.06899e-12	0.999999	4.05614e-12	1.000000
rad26	8.08670e-13	0.999999	3.06838e-12	1.000000
rad1	4.54223e-13	0.999999	1.72348e-12	1.000000
rad24	1.80067e-13	0.999999	6.83237e-13	1.000000
rad3	9.03996e-14	0.999999	3.43008e-13	1.000000
rad33	8.80166e-14	0.999999	3.33966e-13	1.000000
rad4	7.06635e-14	0.999999	2.68122e-13	1.000000
rad15	6.59112e-14	0.999999	2.50090e-13	1.000000
rad12	1.93288e-14	0.999999	7.33403e-14	1.000000
rad25	1.92142e-14	0.999999	7.29055e-14	1.000000
rad8	2.79512e-15	0.999999	1.06057e-14	1.000000
rad14	1.42086e-15	0.999999	5.39126e-15	1.000000
rad27	5.44817e-16	0.999999	2.06723e-15	1.000000
rad31	2.56232e-17	0.999999	9.72234e-17	1.000000
rad47	1.04028e-17	0.999999	3.94720e-17	1.000000
rad5	2.05783e-18	0.999999	7.80814e-18	1.000000

0.100000000E-02 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.51560e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.774067	0.774067	0.00000	0.00000
Indene+H	0.205065	0.979132	0.907636	0.907636
Ph+Allene	0.00752036	0.986652	0.0332858	0.940922
PhCH2CCH+H	0.00646723	0.993120	0.0286246	0.969546
PhCHCCH2+H	0.00361205	0.996732	0.0159873	0.985534
PhCCH+CH3	0.00141397	0.998146	0.00625837	0.991792
PAH9+H	0.000393094	0.998539	0.00173987	0.993532
PAH7+H	0.000286546	0.998825	0.00126828	0.994800
rad30	0.000246477	0.999072	0.00109093	0.995891
Ph+MeAc	0.000203626	0.999275	0.000901267	0.996792
rad19anti	0.000164236	0.999440	0.000726923	0.997519
rad38	0.000162728	0.999602	0.000720251	0.998240
PAH3+H	0.000104219	0.999707	0.000461281	0.998701
rad35	7.62565e-05	0.999783	0.000337518	0.999038
rad39	5.58557e-05	0.999839	0.000247223	0.999286
PhCCCH3+H	4.89504e-05	0.999888	0.000216659	0.999502
rad46	4.15217e-05	0.999929	0.000183779	0.999686
rad50	1.70754e-05	0.999946	7.55772e-05	0.999762
rad60syn	1.38815e-05	0.999960	6.14410e-05	0.999823
rad59	1.15663e-05	0.999972	5.11935e-05	0.999874
rad60anti	8.33859e-06	0.999980	3.69074e-05	0.999911
rad19syn	5.68956e-06	0.999986	2.51825e-05	0.999936
rad67	3.01383e-06	0.999989	1.33395e-05	0.999950
rad51	2.86543e-06	0.999992	1.26827e-05	0.999962

rad54	2.03370e-06	0.999994	9.00134e-06	0.999971
PhcycC3H3_A+H	1.94411e-06	0.999996	8.60480e-06	0.999980
rad52	1.12959e-06	0.999997	4.99969e-06	0.999985
rad37	8.38280e-07	0.999997	3.71031e-06	0.999989
PAH10+CH3	6.63377e-07	0.999998	2.93617e-06	0.999992
rad58	5.75067e-07	0.999999	2.54530e-06	0.999994
PAH1+H	4.44629e-07	0.999999	1.96797e-06	0.999996
rad70	4.35873e-07	1.000000	1.92921e-06	0.999998
rad55	1.20222e-07	1.000000	5.32113e-07	0.999999
rad65	8.71001e-08	1.000000	3.85513e-07	0.999999
rad34	8.35876e-08	1.000000	3.69967e-07	0.999999
rad62	2.65880e-08	1.000000	1.17681e-07	0.999999
rad73	1.91031e-08	1.000000	8.45523e-08	1.000000
rad71	1.86185e-08	1.000000	8.24074e-08	1.000000
rad53	1.46409e-08	1.000000	6.48019e-08	1.000000
rad56	1.02046e-08	1.000000	4.51665e-08	1.000000
rad64	5.41560e-09	1.000000	2.39700e-08	1.000000
PAH8+H	4.18063e-09	1.000000	1.85039e-08	1.000000
rad43	3.92948e-09	1.000000	1.73922e-08	1.000000
rad68syn	2.56012e-09	1.000000	1.13313e-08	1.000000
rad6	2.25388e-09	1.000000	9.97587e-09	1.000000
rad68anti	1.68587e-09	1.000000	7.46183e-09	1.000000
rad42	1.06260e-09	1.000000	4.70315e-09	1.000000
rad40syn	6.46766e-10	1.000000	2.86265e-09	1.000000
rad61	5.26865e-10	1.000000	2.33195e-09	1.000000
rad40anti	3.43893e-10	1.000000	1.52210e-09	1.000000
rad72	2.96663e-10	1.000000	1.31306e-09	1.000000
rad23	1.66511e-10	1.000000	7.36993e-10	1.000000
rad41	1.35345e-10	1.000000	5.99048e-10	1.000000
rad45	5.29154e-11	1.000000	2.34208e-10	1.000000
rad7	2.64879e-11	1.000000	1.17238e-10	1.000000
rad11	2.62271e-11	1.000000	1.16083e-10	1.000000
rad20	1.23075e-11	1.000000	5.44740e-11	1.000000
rad9	1.04060e-11	1.000000	4.60580e-11	1.000000
rad21	7.10958e-12	1.000000	3.14677e-11	1.000000
rad36	5.11653e-12	1.000000	2.26462e-11	1.000000
rad18	4.05615e-12	1.000000	1.79529e-11	1.000000
rad28	3.67239e-12	1.000000	1.62543e-11	1.000000
rad22	2.55477e-12	1.000000	1.13076e-11	1.000000
rad13	2.41019e-12	1.000000	1.06677e-11	1.000000
rad2	6.51103e-13	1.000000	2.88184e-12	1.000000
rad10	6.24112e-13	1.000000	2.76238e-12	1.000000
rad26	4.30645e-13	1.000000	1.90608e-12	1.000000
rad1	1.51112e-13	1.000000	6.68836e-13	1.000000
rad24	1.34246e-13	1.000000	5.94185e-13	1.000000
rad15	1.16572e-13	1.000000	5.15957e-13	1.000000
rad33	5.25122e-14	1.000000	2.32424e-13	1.000000
rad3	3.79766e-14	1.000000	1.68088e-13	1.000000
rad4	2.99310e-14	1.000000	1.32478e-13	1.000000
rad12	1.99725e-14	1.000000	8.84003e-14	1.000000
rad25	1.32641e-14	1.000000	5.87083e-14	1.000000
rad8	3.57803e-15	1.000000	1.58367e-14	1.000000
rad14	7.60121e-16	1.000000	3.36437e-15	1.000000
rad27	2.31324e-16	1.000000	1.02386e-15	1.000000
rad47	2.08550e-17	1.000000	9.23062e-17	1.000000
rad31	1.60842e-17	1.000000	7.11900e-17	1.000000
rad5	4.29663e-18	1.000000	1.90173e-17	1.000000

0.100000000E-02 Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	1.49145e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837640	0.837640	0.00000	0.00000
Indene+H	0.133064	0.970704	0.819559	0.819559
PhCH2CCH+H	0.0118056	0.982510	0.0727127	0.892272
Ph+Allene	0.00950091	0.992011	0.0585175	0.950789
PhCHCCH2+H	0.00446803	0.996479	0.0275192	0.978308
PhCCH+CH3	0.000861597	0.997340	0.00530670	0.983615
PAH9+H	0.000556652	0.997897	0.00342850	0.987044
rad30	0.000325000	0.998222	0.00200173	0.989045
rad19anti	0.000321503	0.998543	0.00198018	0.991026
rad38	0.000287109	0.998830	0.00176835	0.992794
PAH7+H	0.000286344	0.999117	0.00176363	0.994557
PAH3+H	0.000275296	0.999392	0.00169559	0.996253
Ph+MeAc	0.000167695	0.999560	0.00103286	0.997286
rad35	0.000110066	0.999670	0.000677915	0.997964

rad46	7.52920e-05	0.999745	0.000463735	0.998428
rad39	5.82426e-05	0.999803	0.000358725	0.998786
rad50	4.36582e-05	0.999847	0.000268898	0.999055
PhCCCH3+H	3.20470e-05	0.999879	0.000197382	0.999253
rad59	2.75338e-05	0.999907	0.000169584	0.999422
rad60syn	2.64498e-05	0.999933	0.000162908	0.999585
rad60anti	1.77452e-05	0.999951	0.000109295	0.999694
rad51	1.06305e-05	0.999961	6.54750e-05	0.999760
rad67	1.00266e-05	0.999971	6.17554e-05	0.999822
rad19syn	8.12817e-06	0.999980	5.00626e-05	0.999872
PhcycC3H3_A+H	4.32965e-06	0.999984	2.66670e-05	0.999898
rad52	3.62586e-06	0.999988	2.23322e-05	0.999921
rad54	3.10468e-06	0.999991	1.91222e-05	0.999940
PAH10+CH3	2.60306e-06	0.999993	1.60326e-05	0.999956
rad58	2.01823e-06	0.999995	1.24306e-05	0.999968
rad37	1.70772e-06	0.999997	1.05181e-05	0.999979
PAH1+H	1.10636e-06	0.999998	6.81423e-06	0.999986
rad70	1.04847e-06	0.999999	6.45766e-06	0.999992
rad65	3.08350e-07	0.999999	1.89917e-06	0.999994
rad34	2.42002e-07	1.000000	1.49053e-06	0.999995
rad55	2.29000e-07	1.000000	1.41045e-06	0.999997
rad71	1.90833e-07	1.000000	1.17537e-06	0.999998
rad73	1.56405e-07	1.000000	9.63323e-07	0.999999
rad53	4.44392e-08	1.000000	2.73707e-07	0.999999
rad62	4.00912e-08	1.000000	2.46927e-07	1.000000
rad56	3.57945e-08	1.000000	2.20464e-07	1.000000
PAH8+H	2.43971e-08	1.000000	1.50265e-07	1.000000
rad64	1.92945e-08	1.000000	1.18838e-07	1.000000
rad68syn	1.20124e-08	1.000000	7.39864e-08	1.000000
rad43	8.60714e-09	1.000000	5.30126e-08	1.000000
rad68anti	7.79064e-09	1.000000	4.79837e-08	1.000000
rad72	5.37459e-09	1.000000	3.31029e-08	1.000000
rad40syn	3.52166e-09	1.000000	2.16904e-08	1.000000
rad61	3.50346e-09	1.000000	2.15783e-08	1.000000
rad42	2.39319e-09	1.000000	1.47400e-08	1.000000
rad40anti	2.09789e-09	1.000000	1.29212e-08	1.000000
rad6	8.74393e-10	1.000000	5.38552e-09	1.000000
rad41	5.64327e-10	1.000000	3.47578e-09	1.000000
rad23	4.37168e-11	1.000000	2.69258e-10	1.000000
rad22	5.70751e-12	1.000000	3.51534e-11	1.000000
rad45	5.01683e-12	1.000000	3.08994e-11	1.000000
rad7	2.71227e-12	1.000000	1.67053e-11	1.000000
rad11	2.49649e-12	1.000000	1.53762e-11	1.000000
rad28	1.86027e-12	1.000000	1.14577e-11	1.000000
rad9	1.34755e-12	1.000000	8.29975e-12	1.000000
rad20	1.26284e-12	1.000000	7.77799e-12	1.000000
rad36	8.52245e-13	1.000000	5.24910e-12	1.000000
rad21	6.65179e-13	1.000000	4.09694e-12	1.000000
rad18	5.81044e-13	1.000000	3.57874e-12	1.000000
rad13	1.40423e-13	1.000000	8.64884e-13	1.000000
rad15	6.73769e-14	1.000000	4.14984e-13	1.000000
rad26	5.00457e-14	1.000000	3.08239e-13	1.000000
rad10	2.49843e-14	1.000000	1.53882e-13	1.000000
rad24	1.70134e-14	1.000000	1.04788e-13	1.000000
rad2	1.14381e-14	1.000000	7.04490e-14	1.000000
rad12	4.26945e-15	1.000000	2.62962e-14	1.000000
rad33	3.32931e-15	1.000000	2.05057e-14	1.000000
rad1	2.84038e-15	1.000000	1.74943e-14	1.000000
rad8	1.74118e-15	1.000000	1.07242e-14	1.000000
rad25	1.29130e-15	1.000000	7.95329e-15	1.000000
rad3	8.49748e-16	1.000000	5.23372e-15	1.000000
rad4	5.39184e-16	1.000000	3.32091e-15	1.000000
rad14	5.21617e-17	1.000000	3.21272e-16	1.000000
rad47	2.44667e-17	1.000000	1.50694e-16	1.000000
rad5	1.30912e-17	1.000000	8.06304e-17	1.000000
rad27	9.07725e-18	1.000000	5.59081e-17	1.000000

0.100000000E-02 Pa, 2000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.47588e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866428	0.866428	0.00000	0.00000
Indene+H	0.0943885	0.960816	0.706650	0.706650
PhCH2CCH+H	0.0189358	0.979752	0.141765	0.848415
Ph+Allene	0.0101088	0.989861	0.0756807	0.924096
PhCHCCH2+H	0.00579099	0.995652	0.0433549	0.967451

PAH9+H	0.000765251	0.996417	0.00572913	0.973180
PhCCH+CH3	0.000550354	0.996968	0.00412028	0.977300
PAH3+H	0.000526246	0.997494	0.00393980	0.981240
rad19anti	0.000486607	0.997981	0.00364303	0.984883
rad38	0.000411538	0.998392	0.00308103	0.987964
rad30	0.000378289	0.998770	0.00283210	0.990796
PAH7+H	0.000350388	0.999121	0.00262322	0.993419
Ph+MeAc	0.000164748	0.999286	0.00123340	0.994653
rad35	0.000155515	0.999441	0.00116428	0.995817
rad46	0.000120109	0.999561	0.000899212	0.996716
rad50	9.58271e-05	0.999657	0.000717420	0.997434
rad39	7.87039e-05	0.999736	0.000589226	0.998023
rad59	4.92026e-05	0.999785	0.000368361	0.998391
rad60syn	4.01110e-05	0.999825	0.000300295	0.998691
PhCCCH3+H	3.61306e-05	0.999861	0.000270495	0.998962
rad51	2.92772e-05	0.999890	0.000219187	0.999181
rad60anti	2.75040e-05	0.999918	0.000205912	0.999387
rad67	2.43946e-05	0.999942	0.000182633	0.999570
rad19syn	1.17085e-05	0.999954	8.76566e-05	0.999657
rad52	8.84587e-06	0.999963	6.62255e-05	0.999723
PAH10+CH3	7.72771e-06	0.999971	5.78543e-05	0.999781
PhcycC3H3_A+H	7.44557e-06	0.999978	5.57420e-05	0.999837
rad58	5.03691e-06	0.999983	3.77093e-05	0.999875
rad54	4.34710e-06	0.999987	3.25450e-05	0.999907
rad37	3.43690e-06	0.999991	2.57307e-05	0.999933
PAH1+H	2.74924e-06	0.999994	2.05825e-05	0.999954
rad70	2.09354e-06	0.999996	1.56735e-05	0.999969
rad71	1.06964e-06	0.999997	8.00797e-06	0.999977
rad65	8.19689e-07	0.999998	6.13669e-06	0.999983
rad73	7.43918e-07	0.999998	5.56943e-06	0.999989
rad34	5.52321e-07	0.999999	4.13501e-06	0.999993
rad55	3.53324e-07	0.999999	2.64520e-06	0.999996
PAH8+H	1.14511e-07	0.999999	8.57297e-07	0.999997
rad53	9.72440e-08	0.999999	7.28028e-07	0.999997
rad56	9.21218e-08	1.000000	6.89680e-07	0.999998
rad62	6.00486e-08	1.000000	4.49560e-07	0.999999
rad64	5.57953e-08	1.000000	4.17718e-07	0.999999
rad72	4.29818e-08	1.000000	3.21788e-07	0.999999
rad68syn	4.11172e-08	1.000000	3.07828e-07	1.000000
rad68anti	2.65281e-08	1.000000	1.98605e-07	1.000000
rad43	2.20258e-08	1.000000	1.64898e-07	1.000000
rad61	1.54175e-08	1.000000	1.15425e-07	1.000000
rad40syn	1.44056e-08	1.000000	1.07849e-07	1.000000
rad40anti	9.08226e-09	1.000000	6.79953e-08	1.000000
rad42	4.93494e-09	1.000000	3.69460e-08	1.000000
rad41	1.99345e-09	1.000000	1.49242e-08	1.000000
rad6	1.02308e-10	1.000000	7.65938e-10	1.000000
rad23	1.94993e-11	1.000000	1.45984e-10	1.000000
rad45	1.66773e-12	1.000000	1.24856e-11	1.000000
rad22	1.54102e-12	1.000000	1.15370e-11	1.000000
rad9	6.85214e-13	1.000000	5.12993e-12	1.000000
rad11	5.37438e-13	1.000000	4.02359e-12	1.000000
rad20	5.29553e-13	1.000000	3.96455e-12	1.000000
rad7	4.22035e-13	1.000000	3.15961e-12	1.000000
rad28	3.37792e-13	1.000000	2.52892e-12	1.000000
rad36	2.91412e-13	1.000000	2.18169e-12	1.000000
rad21	2.72288e-13	1.000000	2.03851e-12	1.000000
rad18	1.62504e-13	1.000000	1.21660e-12	1.000000
rad15	3.62994e-14	1.000000	2.71760e-13	1.000000
rad13	3.15082e-14	1.000000	2.35890e-13	1.000000
rad24	9.49359e-15	1.000000	7.10748e-14	1.000000
rad26	6.63097e-15	1.000000	4.96435e-14	1.000000
rad12	3.72964e-15	1.000000	2.79223e-14	1.000000
rad10	2.45696e-15	1.000000	1.83943e-14	1.000000
rad8	2.00223e-15	1.000000	1.49899e-14	1.000000
rad2	1.04962e-15	1.000000	7.85810e-15	1.000000
rad33	1.02785e-15	1.000000	7.69514e-15	1.000000
rad25	5.51560e-16	1.000000	4.12931e-15	1.000000
rad1	2.75452e-16	1.000000	2.06220e-15	1.000000
rad3	1.46653e-16	1.000000	1.09793e-15	1.000000
rad4	9.37052e-17	1.000000	7.01535e-16	1.000000
rad47	6.72668e-17	1.000000	5.03600e-16	1.000000
rad5	1.89818e-17	1.000000	1.42110e-16	1.000000
rad14	1.43917e-17	1.000000	1.07745e-16	1.000000
rad27	2.36962e-18	1.000000	1.77404e-17	1.000000

0.100000000E-02 Pa, 2250.00000 K

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

Total | 3.29136e-13 (1.00) 4.00875e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.878204	0.878204	0.00000	0.00000
Indene+H	0.0703003	0.948504	0.577195	0.577195
PhCH2CCH+H	0.0277459	0.976250	0.227806	0.805001
Ph+Allene	0.0105974	0.986848	0.0870088	0.892010
PhCHCCH2+H	0.00765656	0.994504	0.0628636	0.954873
PAH9+H	0.000941856	0.995446	0.00773304	0.962606
PAH3+H	0.000857236	0.996303	0.00703827	0.969645
rad19anti	0.000629228	0.996932	0.00516623	0.974811
rad38	0.000525523	0.997458	0.00431476	0.979126
PAH7+H	0.000454502	0.997913	0.00373165	0.982857
rad30	0.000417263	0.998330	0.00342591	0.986283
PhCCH+CH3	0.000383697	0.998713	0.00315031	0.989434
rad35	0.000200865	0.998914	0.00164918	0.991083
Ph+MeAc	0.000197882	0.999112	0.00162470	0.992707
rad50	0.000170940	0.999283	0.00140349	0.994111
rad46	0.000166540	0.999450	0.00136737	0.995478
rad39	0.000118806	0.999568	0.000975445	0.996454
rad59	7.57691e-05	0.999644	0.000622096	0.997076
rad51	6.22686e-05	0.999707	0.000511251	0.997587
rad60syn	5.44510e-05	0.999761	0.000447066	0.998034
PhCCCH3+H	5.15901e-05	0.999813	0.000423577	0.998458
rad67	4.61782e-05	0.999859	0.000379142	0.998837
rad60anti	3.79865e-05	0.999897	0.000311885	0.999149
PAH10+CH3	1.71933e-05	0.999914	0.000141164	0.999290
rad52	1.70844e-05	0.999931	0.000140270	0.999430
rad19syn	1.63932e-05	0.999947	0.000134595	0.999565
PhcycC3H3_A+H	1.10275e-05	0.999958	9.05407e-05	0.999655
rad58	1.00660e-05	0.999969	8.26458e-05	0.999738
PAH1+H	5.96728e-06	0.999974	4.89939e-05	0.999787
rad37	5.72356e-06	0.999980	4.69928e-05	0.999834
rad54	5.39698e-06	0.999986	4.43115e-05	0.999878
rad71	3.95692e-06	0.999990	3.24880e-05	0.999911
rad70	3.69403e-06	0.999993	3.03296e-05	0.999941
rad73	2.41459e-06	0.999996	1.98248e-05	0.999961
rad65	1.68525e-06	0.999997	1.38367e-05	0.999975
rad34	1.08371e-06	0.999998	8.89771e-06	0.999984
rad55	4.74067e-07	0.999999	3.89229e-06	0.999988
PAH8+H	3.91946e-07	0.999999	3.21804e-06	0.999991
rad72	2.09320e-07	1.000000	1.71860e-06	0.999992
rad56	1.86169e-07	1.000000	1.52852e-06	0.999994
rad53	1.73183e-07	1.000000	1.42191e-06	0.999995
rad64	1.33616e-07	1.000000	1.09704e-06	0.999997
rad68syn	1.10265e-07	1.000000	9.05322e-07	0.999997
rad62	9.48259e-08	1.000000	7.78561e-07	0.999998
rad68anti	7.08807e-08	1.000000	5.81961e-07	0.999999
rad43	4.82400e-08	1.000000	3.96071e-07	0.999999
rad61	4.62524e-08	1.000000	3.79752e-07	1.000000
rad40syn	4.43238e-08	1.000000	3.63917e-07	1.000000
rad40anti	2.91751e-08	1.000000	2.39540e-07	1.000000
rad42	1.00367e-08	1.000000	8.24055e-08	1.000000
rad41	5.35211e-09	1.000000	4.39431e-08	1.000000
rad6	1.27174e-11	1.000000	1.04415e-10	1.000000
rad23	5.10627e-12	1.000000	4.19246e-11	1.000000
rad45	6.44478e-13	1.000000	5.29144e-12	1.000000
rad22	3.98128e-13	1.000000	3.26880e-12	1.000000
rad9	3.55770e-13	1.000000	2.92102e-12	1.000000
rad20	2.60557e-13	1.000000	2.13929e-12	1.000000
rad11	1.62884e-13	1.000000	1.33734e-12	1.000000
rad21	1.30012e-13	1.000000	1.06745e-12	1.000000
rad36	1.15290e-13	1.000000	9.46579e-13	1.000000
rad7	9.44698e-14	1.000000	7.75637e-13	1.000000
rad18	6.17427e-14	1.000000	5.06934e-13	1.000000
rad28	5.13617e-14	1.000000	4.21701e-13	1.000000
rad15	2.11109e-14	1.000000	1.73329e-13	1.000000
rad13	8.56593e-15	1.000000	7.03299e-14	1.000000
rad24	5.70002e-15	1.000000	4.67996e-14	1.000000
rad12	3.05352e-15	1.000000	2.50707e-14	1.000000
rad26	2.26954e-15	1.000000	1.86339e-14	1.000000
rad8	2.16858e-15	1.000000	1.78050e-14	1.000000
rad10	7.25700e-16	1.000000	5.95831e-15	1.000000
rad33	3.63729e-16	1.000000	2.98637e-15	1.000000
rad25	2.84538e-16	1.000000	2.33618e-15	1.000000
rad2	1.56378e-16	1.000000	1.28393e-15	1.000000
rad47	1.41374e-16	1.000000	1.16074e-15	1.000000
rad1	4.51176e-17	1.000000	3.70435e-16	1.000000
rad3	3.19134e-17	1.000000	2.62022e-16	1.000000

rad5	2.10172e-17	1.00000	1.72560e-16	1.00000
rad4	2.03248e-17	1.00000	1.66875e-16	1.00000
rad14	5.33293e-18	1.00000	4.37856e-17	1.00000
rad27	1.32558e-18	1.00000	1.08836e-17	1.00000

0.100000000E-02 Pa, 2500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.32896e-13 (1.00)	6.40311e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.879843	0.879843	0.00000	0.00000
Indene+H	0.0541638	0.934007	0.450777	0.450777
PhCH2CCH+H	0.0379681	0.971975	0.315989	0.766766
Ph+Allene	0.0112444	0.983219	0.0935810	0.860347
PhCHCCH2+H	0.00999485	0.993214	0.0831818	0.943529
PAH3+H	0.00124356	0.994458	0.0103495	0.953878
PAH9+H	0.00106545	0.995523	0.00886715	0.962745
rad19anti	0.000731028	0.996254	0.00608396	0.968829
rad38	0.000614393	0.996869	0.00511327	0.973943
PAH7+H	0.000586817	0.997455	0.00488376	0.978826
rad30	0.000442203	0.997898	0.00368022	0.982507
PhCCH+CH3	0.000309130	0.998207	0.00257273	0.985079
rad50	0.000261677	0.998468	0.00217780	0.987257
Ph+MeAc	0.000256973	0.998725	0.00213865	0.989396
rad35	0.000242192	0.998968	0.00201564	0.991411
rad46	0.000207878	0.999175	0.00173006	0.993142
rad39	0.000175772	0.999351	0.00146285	0.994604
rad51	0.000109649	0.999461	0.000912547	0.995517
rad59	0.000104825	0.999566	0.000872406	0.996389
rad67	7.34547e-05	0.999639	0.000611325	0.997001
PhCCCH3+H	7.22810e-05	0.999711	0.000601557	0.997602
rad60syn	6.81857e-05	0.999780	0.000567474	0.998170
rad60anti	4.82378e-05	0.999828	0.000401457	0.998571
PAH10+CH3	3.08998e-05	0.999859	0.000257163	0.998828
rad52	2.78077e-05	0.999887	0.000231429	0.999060
rad19syn	2.34810e-05	0.999910	0.000195420	0.999255
rad58	1.71635e-05	0.999927	0.000142842	0.999398
PhcycC3H3_A+H	1.49440e-05	0.999942	0.000124371	0.999522
PAH1+H	1.13017e-05	0.999953	9.40581e-05	0.999616
rad71	1.08628e-05	0.999964	9.04054e-05	0.999707
rad37	8.12868e-06	0.999972	6.76507e-05	0.999774
rad54	6.28002e-06	0.999979	5.22652e-05	0.999827
rad70	5.97099e-06	0.999985	4.96933e-05	0.999876
rad73	5.95726e-06	0.999991	4.95792e-05	0.999926
rad65	2.87595e-06	0.999994	2.39350e-05	0.999950
rad34	1.90624e-06	0.999995	1.58647e-05	0.999966
PAH8+H	1.06524e-06	0.999997	8.86540e-06	0.999975
rad72	7.14904e-07	0.999997	5.94977e-06	0.999981
rad55	5.87553e-07	0.999998	4.88989e-06	0.999986
rad56	3.21872e-07	0.999998	2.67877e-06	0.999988
rad64	2.70855e-07	0.999998	2.25419e-06	0.999990
rad53	2.70820e-07	0.999999	2.25389e-06	0.999993
rad68syn	2.47504e-07	0.999999	2.05985e-06	0.999995
rad68anti	1.58683e-07	0.999999	1.32064e-06	0.999996
rad62	1.55148e-07	0.999999	1.29122e-06	0.999997
rad40syn	1.10734e-07	0.999999	9.21579e-07	0.999998
rad61	1.05680e-07	0.999999	8.79519e-07	0.999999
rad43	8.79692e-08	1.000000	7.32121e-07	1.000000
rad40anti	7.53435e-08	1.000000	6.27044e-07	1.000000
rad42	1.97239e-08	1.000000	1.64152e-07	1.000000
rad41	1.13877e-08	1.000000	9.47734e-08	1.000000
rad6	2.29520e-12	1.000000	1.91017e-11	1.000000
rad23	1.55264e-12	1.000000	1.29218e-11	1.000000
rad45	2.80225e-13	1.000000	2.33217e-12	1.000000
rad9	1.89154e-13	1.000000	1.57423e-12	1.000000
rad20	1.43940e-13	1.000000	1.19794e-12	1.000000
rad22	1.35699e-13	1.000000	1.12935e-12	1.000000
rad21	6.94972e-14	1.000000	5.78388e-13	1.000000
rad11	6.25867e-14	1.000000	5.20876e-13	1.000000
rad36	5.11091e-14	1.000000	4.25354e-13	1.000000
rad18	2.77737e-14	1.000000	2.31146e-13	1.000000
rad7	2.64737e-14	1.000000	2.20327e-13	1.000000
rad15	1.25487e-14	1.000000	1.04436e-13	1.000000
rad28	1.21717e-14	1.000000	1.01298e-13	1.000000
rad24	3.60418e-15	1.000000	2.99957e-14	1.000000
rad13	2.74558e-15	1.000000	2.28500e-14	1.000000
rad12	2.40046e-15	1.000000	1.99778e-14	1.000000

rad8	2.25267e-15	1.000000	1.87478e-14	1.00000
rad26	1.25639e-15	1.000000	1.04562e-14	1.00000
rad10	4.04301e-16	1.000000	3.36478e-15	1.00000
rad47	2.44566e-16	1.000000	2.03539e-15	1.00000
rad25	1.71221e-16	1.000000	1.42498e-15	1.00000
rad33	1.46761e-16	1.000000	1.22141e-15	1.00000
rad2	4.73757e-17	1.000000	3.94283e-16	1.00000
rad5	2.17645e-17	1.000000	1.81134e-16	1.00000
rad1	1.58223e-17	1.000000	1.31681e-16	1.00000
rad3	8.71812e-18	1.000000	7.25563e-17	1.00000
rad4	5.47010e-18	1.000000	4.55248e-17	1.00000
rad14	2.68054e-18	1.000000	2.23087e-17	1.00000
rad27	1.07390e-18	1.000000	8.93753e-18	1.00000

0.100000000E-02 Pa, 2750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.05113e-13 (1.00)	1.00487e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.875189	0.875189	0.00000	0.00000
PhCH2CCH+H	0.0492371	0.924426	0.394492	0.394492
Indene+H	0.0427171	0.967143	0.342254	0.736746
PhCHCCH2+H	0.0126523	0.979795	0.101371	0.838117
Ph+Allene	0.0121360	0.991931	0.0972347	0.935352
PAH3+H	0.00165412	0.993586	0.0132530	0.948605
PAH9+H	0.00112924	0.994715	0.00904761	0.957652
rad19anti	0.000790044	0.995505	0.00632991	0.963982
PAH7+H	0.000729333	0.996234	0.00584349	0.969826
rad38	0.000670521	0.996905	0.00537228	0.975198
rad30	0.000454283	0.997359	0.00363976	0.978838
rad50	0.000356822	0.997716	0.00285889	0.981697
Ph+MeAc	0.000331297	0.998047	0.00265438	0.984351
PhCCH+CH3	0.000293338	0.998340	0.00235025	0.986701
rad35	0.000276886	0.998617	0.00221844	0.988920
rad39	0.000242689	0.998860	0.00194445	0.990864
rad46	0.000239377	0.999099	0.00191791	0.992782
rad51	0.000167552	0.999267	0.00134245	0.994125
rad59	0.000133898	0.999401	0.00107280	0.995197
rad67	0.000103303	0.999504	0.000827674	0.996025
PhCCCH3+H	9.47597e-05	0.999599	0.000759224	0.996784
rad60syn	8.03400e-05	0.999679	0.000643692	0.997428
rad60anti	5.74980e-05	0.999737	0.000460680	0.997889
PAH10+CH3	4.75540e-05	0.999784	0.000381007	0.998270
rad52	3.97965e-05	0.999824	0.000318854	0.998588
rad19syn	3.43481e-05	0.999858	0.000275200	0.998864
rad58	2.60271e-05	0.999885	0.000208532	0.999072
rad71	2.39120e-05	0.999908	0.000191586	0.999264
PhcycC3H3_A+H	1.91124e-05	0.999928	0.000153131	0.999417
PAH1+H	1.89313e-05	0.999946	0.000151679	0.999569
rad73	1.19963e-05	0.999958	9.61159e-05	0.999665
rad37	1.02458e-05	0.999969	8.20902e-05	0.999747
rad70	8.97456e-06	0.999978	7.19051e-05	0.999819
rad54	7.04852e-06	0.999985	5.64734e-05	0.999875
rad65	4.27356e-06	0.999989	3.42402e-05	0.999909
rad34	3.06724e-06	0.999992	2.45750e-05	0.999934
PAH8+H	2.42508e-06	0.999995	1.94299e-05	0.999953
rad72	1.88022e-06	0.999996	1.50645e-05	0.999968
rad55	6.94535e-07	0.999997	5.56468e-06	0.999974
rad56	5.00306e-07	0.999998	4.00850e-06	0.999978
rad68syn	4.83458e-07	0.999998	3.87351e-06	0.999982
rad64	4.76899e-07	0.999999	3.82096e-06	0.999986
rad53	3.88200e-07	0.999999	3.11030e-06	0.999989
rad68anti	3.09361e-07	0.999999	2.47863e-06	0.999991
rad62	2.47711e-07	0.999999	1.98468e-06	0.999993
rad40syn	2.35491e-07	1.000000	1.88678e-06	0.999995
rad61	1.98411e-07	1.000000	1.58969e-06	0.999997
rad40anti	1.64464e-07	1.000000	1.31770e-06	0.999998
rad43	1.38326e-07	1.000000	1.10828e-06	0.999999
rad42	3.59374e-08	1.000000	2.87934e-07	1.000000
rad41	2.03340e-08	1.000000	1.62918e-07	1.000000
rad23	5.72482e-13	1.000000	4.58678e-12	1.000000
rad6	5.40835e-13	1.000000	4.33322e-12	1.000000
rad45	1.33381e-13	1.000000	1.06866e-12	1.000000
rad9	1.03416e-13	1.000000	8.28581e-13	1.000000
rad20	8.68784e-14	1.000000	6.96078e-13	1.000000
rad22	5.55777e-14	1.000000	4.45294e-13	1.000000
rad21	4.05054e-14	1.000000	3.24533e-13	1.000000

rad11	2.91978e-14	1.00000	2.33936e-13	1.000000
rad36	2.47144e-14	1.00000	1.98014e-13	1.000000
rad18	1.40097e-14	1.00000	1.12247e-13	1.000000
rad7	8.87603e-15	1.00000	7.11156e-14	1.000000
rad15	7.56782e-15	1.00000	6.06341e-14	1.000000
rad28	4.38767e-15	1.00000	3.51544e-14	1.000000
rad24	2.36701e-15	1.00000	1.89647e-14	1.000000
rad8	2.27048e-15	1.00000	1.81913e-14	1.000000
rad12	1.84640e-15	1.00000	1.47935e-14	1.000000
rad13	1.02994e-15	1.00000	8.25198e-15	1.000000
rad26	7.78181e-16	1.00000	6.23486e-15	1.000000
rad47	3.65965e-16	1.00000	2.93215e-15	1.000000
rad10	2.66600e-16	1.00000	2.13602e-15	1.000000
rad25	1.16293e-16	1.00000	9.31748e-16	1.000000
rad33	6.71474e-17	1.00000	5.37991e-16	1.000000
rad2	2.38910e-17	1.00000	1.91417e-16	1.000000
rad5	2.16587e-17	1.00000	1.73532e-16	1.000000
rad1	9.19684e-18	1.00000	7.36860e-17	1.000000
rad3	2.95843e-18	1.00000	2.37032e-17	1.000000
rad4	1.81043e-18	1.00000	1.45053e-17	1.000000
rad14	1.77543e-18	1.00000	1.42249e-17	1.000000
rad27	9.32037e-19	1.00000	7.46757e-18	1.000000

0.100000000E-02 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15309e-12 (1.00)	1.53862e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866566	0.866566	0.00000	0.00000
PhCH2CCH+H	0.0611725	0.927738	0.458447	0.458447
Indene+H	0.0342672	0.962006	0.256810	0.715257
PhCHCCH2+H	0.0154790	0.977485	0.116005	0.831262
Ph+Allene	0.0132660	0.990751	0.0994201	0.930682
PAH3+H	0.00205938	0.992810	0.0154337	0.946116
PAH9+H	0.00113813	0.993948	0.00852950	0.954645
PAH7+H	0.000866135	0.994814	0.00649110	0.961136
rad19anti	0.000812999	0.995627	0.00609288	0.967229
rad38	0.000693215	0.996321	0.00519518	0.972424
rad30	0.000455427	0.996776	0.00341312	0.975838
rad50	0.000445147	0.997221	0.00333608	0.979174
Ph+MeAc	0.000411378	0.997633	0.00308300	0.982257
PhCCH+CH3	0.000319072	0.997952	0.00239123	0.984648
rad39	0.000311351	0.998263	0.00233337	0.986981
rad35	0.000303822	0.998567	0.00227694	0.989258
rad46	0.000258929	0.998826	0.00194050	0.991199
rad51	0.000229661	0.999055	0.00172116	0.992920
rad59	0.000160966	0.999216	0.00120633	0.994126
rad67	0.000132859	0.999349	0.000995686	0.995122
PhCCCH3+H	0.000117527	0.999467	0.000880786	0.996003
rad60syn	9.03378e-05	0.999557	0.000677021	0.996680
PAH10+CH3	6.53522e-05	0.999622	0.000489771	0.997169
rad60anti	6.52879e-05	0.999688	0.000489289	0.997659
rad52	5.15998e-05	0.999739	0.000386706	0.998045
rad19syn	5.01057e-05	0.999789	0.000375508	0.998421
rad71	4.45158e-05	0.999834	0.000333616	0.998755
rad58	3.61220e-05	0.999870	0.000270710	0.999025
PAH1+H	2.86271e-05	0.999899	0.000214541	0.999240
PhcycC3H3_A+H	2.34369e-05	0.999922	0.000175644	0.999415
rad73	2.07080e-05	0.999943	0.000155192	0.999571
rad70	1.26564e-05	0.999955	9.48509e-05	0.999666
rad37	1.18404e-05	0.999967	8.87361e-05	0.999754
rad54	7.74183e-06	0.999975	5.80198e-05	0.999812
rad65	5.71876e-06	0.999981	4.28583e-05	0.999855
PAH8+H	4.80152e-06	0.999986	3.59842e-05	0.999891
rad34	4.57469e-06	0.999990	3.42843e-05	0.999925
rad72	4.05904e-06	0.999994	3.04198e-05	0.999956
rad68syn	8.44302e-07	0.999995	6.32747e-06	0.999962
rad55	7.96394e-07	0.999996	5.96844e-06	0.999968
rad64	7.49015e-07	0.999997	5.61336e-06	0.999974
rad56	7.20451e-07	0.999997	5.39929e-06	0.999979
rad68anti	5.39463e-07	0.999998	4.04291e-06	0.999983
rad53	5.23143e-07	0.999998	3.92061e-06	0.999987
rad40syn	4.40707e-07	0.999999	3.30280e-06	0.999990
rad62	3.72784e-07	0.999999	2.79376e-06	0.999993
rad61	3.22478e-07	0.999999	2.41676e-06	0.999996
rad40anti	3.14359e-07	1.000000	2.35591e-06	0.999998
rad43	1.94896e-07	1.00000	1.46061e-06	0.999999

rad42	5.98145e-08	1.00000	4.48269e-07	1.000000
rad41	3.19484e-08	1.00000	2.39432e-07	1.00000
rad23	2.38467e-13	1.00000	1.78715e-12	1.00000
rad6	1.56436e-13	1.00000	1.17238e-12	1.00000
rad45	6.80574e-14	1.00000	5.10044e-13	1.00000
rad9	5.83510e-14	1.00000	4.37302e-13	1.00000
rad20	5.61879e-14	1.00000	4.21091e-13	1.00000
rad22	2.57601e-14	1.00000	1.93055e-13	1.00000
rad21	2.52565e-14	1.00000	1.89281e-13	1.00000
rad11	1.59326e-14	1.00000	1.19404e-13	1.00000
rad36	1.27727e-14	1.00000	9.57232e-14	1.00000
rad18	7.69601e-15	1.00000	5.76764e-14	1.00000
rad15	4.64884e-15	1.00000	3.48400e-14	1.00000
rad7	3.48817e-15	1.00000	2.61415e-14	1.00000
rad8	2.23533e-15	1.00000	1.67523e-14	1.00000
rad28	2.06813e-15	1.00000	1.54992e-14	1.00000
rad24	1.60028e-15	1.00000	1.19931e-14	1.00000
rad12	1.40784e-15	1.00000	1.05508e-14	1.00000
rad26	4.95132e-16	1.00000	3.71068e-15	1.00000
rad47	4.90428e-16	1.00000	3.67543e-15	1.00000
rad13	4.47294e-16	1.00000	3.35217e-15	1.00000
rad10	1.81069e-16	1.00000	1.35699e-15	1.00000
rad25	8.60189e-17	1.00000	6.44654e-16	1.00000
rad33	3.44368e-17	1.00000	2.58081e-16	1.00000
rad5	2.10191e-17	1.00000	1.57524e-16	1.00000
rad2	1.46039e-17	1.00000	1.09447e-16	1.00000
rad1	6.36987e-18	1.00000	4.77379e-17	1.00000
rad14	1.40238e-18	1.00000	1.05099e-17	1.00000
rad3	1.21984e-18	1.00000	9.14190e-18	1.00000
rad27	8.01839e-19	1.00000	6.00924e-18	1.00000
rad4	7.24616e-19	1.00000	5.43051e-18	1.00000

0.100000000E-02 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.58309e-12 (1.00)	2.28795e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.855476	0.855476	0.00000	0.00000
PhCH2CCH+H	0.0734301	0.928906	0.508082	0.508082
Indene+H	0.0278643	0.956770	0.192800	0.700882
PhCHCCH2+H	0.0183610	0.975131	0.127045	0.827927
Ph+Allene	0.0145940	0.989725	0.100980	0.928907
PAH3+H	0.00243645	0.992162	0.0168585	0.945765
PAH9+H	0.00110339	0.993265	0.00763468	0.953400
PAH7+H	0.000986571	0.994252	0.00682634	0.960227
rad19anti	0.000808911	0.995061	0.00559707	0.965824
rad38	0.000686670	0.995747	0.00475125	0.970575
rad50	0.000518179	0.996266	0.00358542	0.974160
Ph+MeAc	0.000489465	0.996755	0.00338674	0.977547
rad30	0.000447972	0.997203	0.00309964	0.980647
PhCCH+CH3	0.000378211	0.997581	0.00261694	0.983264
rad39	0.000374434	0.997956	0.00259081	0.985854
rad35	0.000323023	0.998279	0.00223508	0.988089
rad51	0.000289245	0.998568	0.00200136	0.990091
rad46	0.000266714	0.998835	0.00184546	0.991936
rad59	0.000184695	0.999019	0.00127795	0.993214
rad67	0.000159865	0.999179	0.00110614	0.994320
PhCCCH3+H	0.000140367	0.999320	0.000971235	0.995292
rad60syn	9.79791e-05	0.999418	0.000677943	0.995970
PAH10+CH3	8.26142e-05	0.999500	0.000571630	0.996541
rad71	7.28074e-05	0.999573	0.000503773	0.997045
rad60anti	7.14060e-05	0.999644	0.000494077	0.997539
rad19syn	7.13406e-05	0.999716	0.000493624	0.998033
rad52	6.19533e-05	0.999778	0.000428671	0.998461
rad58	4.68388e-05	0.999825	0.000324090	0.998785
PAH1+H	3.98744e-05	0.999864	0.000275902	0.999061
rad73	3.17350e-05	0.999896	0.000219583	0.999281
PhcycC3H3_A+H	2.77967e-05	0.999924	0.000192333	0.999473
rad70	1.68825e-05	0.999941	0.000116814	0.999590
rad37	1.28499e-05	0.999954	8.89115e-05	0.999679
PAH8+H	8.50457e-06	0.999962	5.88453e-05	0.999738
rad54	8.38235e-06	0.999971	5.79997e-05	0.999796
rad72	7.52648e-06	0.999978	5.20777e-05	0.999848
rad65	7.06074e-06	0.999985	4.88551e-05	0.999897
rad34	6.39568e-06	0.999992	4.42534e-05	0.999941
rad68syn	1.34606e-06	0.999993	9.31375e-06	0.999950
rad64	1.07438e-06	0.999994	7.43389e-06	0.999958

rad56	9.79690e-07	0.999995	6.77873e-06	0.999965
rad55	8.93999e-07	0.999996	6.18581e-06	0.999971
rad68anti	8.59058e-07	0.999997	5.94405e-06	0.999977
rad40syn	7.44327e-07	0.999997	5.15020e-06	0.999982
rad53	6.73265e-07	0.999998	4.65850e-06	0.999986
rad40anti	5.40357e-07	0.999999	3.73887e-06	0.999990
rad62	5.25220e-07	0.999999	3.63414e-06	0.999994
rad61	4.70536e-07	1.000000	3.25576e-06	0.999997
rad43	2.53715e-07	1.000000	1.75552e-06	0.999999
rad42	9.14458e-08	1.000000	6.32737e-07	0.999999
rad41	4.57450e-08	1.000000	3.16522e-07	1.000000
rad23	1.08237e-13	1.000000	7.48921e-13	1.000000
rad6	5.40747e-14	1.000000	3.74157e-13	1.000000
rad20	3.83870e-14	1.000000	2.65610e-13	1.000000
rad45	3.66665e-14	1.000000	2.53705e-13	1.000000
rad9	3.40478e-14	1.000000	2.35586e-13	1.000000
rad21	1.66174e-14	1.000000	1.14980e-13	1.000000
rad22	1.31185e-14	1.000000	9.07702e-14	1.000000
rad11	9.80936e-15	1.000000	6.78736e-14	1.000000
rad36	6.95213e-15	1.000000	4.81036e-14	1.000000
rad18	4.51593e-15	1.000000	3.12469e-14	1.000000
rad15	2.91921e-15	1.000000	2.01988e-14	1.000000
rad8	2.15817e-15	1.000000	1.49330e-14	1.000000
rad7	1.57441e-15	1.000000	1.08938e-14	1.000000
rad28	1.13714e-15	1.000000	7.86817e-15	1.000000
rad24	1.10778e-15	1.000000	7.66503e-15	1.000000
rad12	1.07284e-15	1.000000	7.42324e-15	1.000000
rad47	6.03541e-16	1.000000	4.17606e-15	1.000000
rad26	3.19114e-16	1.000000	2.20803e-15	1.000000
rad13	2.21091e-16	1.000000	1.52979e-15	1.000000
rad10	1.23772e-16	1.000000	8.56410e-16	1.000000
rad25	6.72544e-17	1.000000	4.65351e-16	1.000000
rad5	2.01773e-17	1.000000	1.39612e-16	1.000000
rad33	1.94932e-17	1.000000	1.34878e-16	1.000000
rad2	9.55584e-18	1.000000	6.61194e-17	1.000000
rad1	4.66197e-18	1.000000	3.22574e-17	1.000000
rad14	1.20219e-18	1.000000	8.31826e-18	1.000000
rad27	6.78841e-19	1.000000	4.69708e-18	1.000000
rad3	5.92021e-19	1.000000	4.09635e-18	1.000000
rad4	3.42021e-19	1.000000	2.36654e-18	1.000000

0.100000000E-02 Pa, 3500.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.10046e-12	(1.00)	3.29923e-13	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.842928	0.842928	0.00000	0.00000
PhCH2CCH+H	0.0857241	0.928652	0.545762	0.545762
Indene+H	0.0229287	0.951581	0.145976	0.691738
PhCHCCH2+H	0.0212218	0.972803	0.135108	0.826846
Ph+Allene	0.0160719	0.988874	0.102322	0.929168
PAH3+H	0.00277080	0.991645	0.0176403	0.946808
PAH7+H	0.00108547	0.992731	0.00691065	0.953719
PAH9+H	0.00103824	0.993769	0.00660998	0.960329
rad19anti	0.000786012	0.994555	0.00500415	0.965333
rad38	0.000657575	0.995213	0.00418645	0.969520
rad50	0.000571322	0.995784	0.00363732	0.973157
Ph+MeAc	0.000559758	0.996344	0.00356370	0.976721
PhCCH+CH3	0.000466753	0.996810	0.00297158	0.979692
rad30	0.000434295	0.997245	0.00276494	0.982457
rad39	0.000426787	0.997672	0.00271714	0.985174
rad51	0.000340822	0.998012	0.00216985	0.987344
rad35	0.000335221	0.998348	0.00213419	0.989478
rad46	0.000264413	0.998612	0.00168339	0.991162
rad59	0.000204435	0.998816	0.00130154	0.992463
rad67	0.000182834	0.998999	0.00116401	0.993627
PhCCCH3+H	0.000163685	0.999163	0.00104210	0.994669
rad71	0.000107601	0.999271	0.000685042	0.995354
rad60syn	0.000103349	0.999374	0.000657969	0.996012
PAH10+CH3	9.81181e-05	0.999472	0.000624669	0.996637
rad19syn	9.79725e-05	0.999570	0.000623742	0.997261
rad60anti	7.58697e-05	0.999646	0.000483025	0.997744
rad52	7.00217e-05	0.999716	0.000445793	0.998190
rad58	5.76196e-05	0.999773	0.000366835	0.998556
PAH1+H	5.20523e-05	0.999826	0.000331391	0.998888
rad73	4.43107e-05	0.999870	0.000282104	0.999170
PhcycC3H3_A+H	3.20633e-05	0.999902	0.000204131	0.999374

rad70	2.14708e-05	0.999923	0.000136694	0.999511
PAH8+H	1.37725e-05	0.999937	8.76827e-05	0.999598
rad37	1.33235e-05	0.999950	8.48243e-05	0.999683
rad72	1.23923e-05	0.999963	7.88958e-05	0.999762
rad54	8.98058e-06	0.999972	5.71749e-05	0.999819
rad34	8.46717e-06	0.999980	5.39063e-05	0.999873
rad65	8.19015e-06	0.999988	5.21426e-05	0.999925
rad68syn	1.99232e-06	0.999990	1.26841e-05	0.999938
rad64	1.43496e-06	0.999992	9.13568e-06	0.999947
rad56	1.27412e-06	0.999993	8.11171e-06	0.999955
rad68anti	1.27030e-06	0.999994	8.08736e-06	0.999963
rad40syn	1.15716e-06	0.999996	7.36708e-06	0.999971
rad55	9.87613e-07	0.999997	6.28764e-06	0.999977
rad40anti	8.52741e-07	0.999997	5.42898e-06	0.999982
rad53	8.35966e-07	0.999998	5.32218e-06	0.999988
rad62	6.97360e-07	0.999999	4.43975e-06	0.999992
rad61	6.32568e-07	1.000000	4.02725e-06	0.999996
rad43	3.12012e-07	1.000000	1.98643e-06	0.999998
rad42	1.30122e-07	1.000000	8.28424e-07	0.999999
rad41	6.11800e-08	1.000000	3.89503e-07	0.999999
rad23	5.25342e-14	1.000000	3.34459e-13	0.999999
rad20	2.74120e-14	1.000000	1.74519e-13	0.999999
rad6	2.18712e-14	1.000000	1.39243e-13	0.999999
rad45	2.06358e-14	1.000000	1.31378e-13	0.999999
rad9	2.05520e-14	1.000000	1.30844e-13	0.999999
rad21	1.14208e-14	1.000000	7.27103e-14	0.999999
rad22	7.20694e-15	1.000000	4.58830e-14	0.999999
rad11	6.60831e-15	1.000000	4.20718e-14	0.999999
rad36	3.94401e-15	1.000000	2.51095e-14	0.999999
rad18	2.79270e-15	1.000000	1.77797e-14	0.999999
rad8	2.04865e-15	1.000000	1.30427e-14	0.999999
rad15	1.87673e-15	1.000000	1.19482e-14	0.999999
rad12	8.20876e-16	1.000000	5.22611e-15	0.999999
rad7	7.98007e-16	1.000000	5.08051e-15	0.999999
rad24	7.82702e-16	1.000000	4.98307e-15	0.999999
rad47	6.94994e-16	1.000000	4.42468e-15	0.999999
rad28	6.82567e-16	1.000000	4.34557e-15	0.999999
rad26	2.08342e-16	1.000000	1.32641e-15	0.999999
rad13	1.21833e-16	1.000000	7.75650e-16	0.999999
rad10	8.52772e-17	1.000000	5.42917e-16	0.999999
rad25	5.44463e-17	1.000000	3.46632e-16	0.999999
rad5	1.93135e-17	1.000000	1.22960e-16	0.999999
rad33	1.19819e-17	1.000000	7.62829e-17	0.999999
rad2	6.52787e-18	1.000000	4.15597e-17	0.999999
rad1	3.49416e-18	1.000000	2.22456e-17	0.999999
rad14	1.06171e-18	1.000000	6.75938e-18	0.999999
rad27	5.69301e-19	1.000000	3.62446e-18	0.999999
rad3	3.26897e-19	1.000000	2.08119e-18	0.999999
rad4	1.84871e-19	1.000000	1.17698e-18	0.999999

0.100000000E-02 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.70978e-12 (1.00)	4.61708e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829614	0.829614	0.00000	0.00000
PhCH2CCH+H	0.0978316	0.927446	0.574175	0.574175
PhCHCCH2+H	0.0240141	0.951460	0.140939	0.715114
Indene+H	0.0190788	0.970538	0.111974	0.827088
Ph+Allene	0.0176550	0.988193	0.103617	0.930705
PAH3+H	0.00305565	0.991249	0.0179337	0.948639
PAH7+H	0.00116197	0.992411	0.00681959	0.955458
PAH9+H	0.000955042	0.993366	0.00560515	0.961063
rad19anti	0.000750872	0.994117	0.00440688	0.965470
Ph+MeAc	0.000618509	0.994736	0.00363004	0.969100
rad38	0.000613193	0.995349	0.00359884	0.972699
rad50	0.000603635	0.995952	0.00354274	0.976242
PhCCH+CH3	0.000581835	0.996534	0.00341479	0.979657
rad39	0.000465790	0.997000	0.00273373	0.982390
rad30	0.000416539	0.997417	0.00244467	0.984835
rad51	0.000380994	0.997798	0.00223606	0.987071
rad35	0.000341508	0.998139	0.00200431	0.989075
rad46	0.000254425	0.998393	0.00149322	0.990569
rad59	0.000220084	0.998614	0.00129168	0.991860
rad67	0.000201013	0.998815	0.00117975	0.993040
PhCCCH3+H	0.000187990	0.999003	0.00110331	0.994143
rad71	0.000146780	0.999149	0.000861455	0.995005

rad19syn	0.000129261	0.999279	0.000758633	0.995764
PAH10+CH3	0.000111172	0.999390	0.000652468	0.996416
rad60syn	0.000106707	0.999496	0.000626263	0.997042
rad60anti	7.88382e-05	0.999575	0.000462703	0.997505
rad52	7.54521e-05	0.999651	0.000442829	0.997948
rad58	6.80261e-05	0.999719	0.000399246	0.998347
PAH1+H	6.45813e-05	0.999783	0.000379028	0.998726
rad73	5.74878e-05	0.999841	0.000337397	0.999063
PhcycC3H3_A+H	3.61213e-05	0.999877	0.000211996	0.999275
rad70	2.62309e-05	0.999903	0.000153949	0.999429
PAH8+H	2.07420e-05	0.999924	0.000121735	0.999551
rad72	1.85748e-05	0.999943	0.000109016	0.999660
rad37	1.33636e-05	0.999956	7.84314e-05	0.999739
rad34	1.07116e-05	0.999967	6.28665e-05	0.999801
rad54	9.53969e-06	0.999976	5.59886e-05	0.999857
rad65	9.05125e-06	0.999985	5.31219e-05	0.999911
rad68syn	2.77520e-06	0.999988	1.62877e-05	0.999927
rad64	1.81236e-06	0.999990	1.06367e-05	0.999938
rad68anti	1.76807e-06	0.999992	1.03768e-05	0.999948
rad40syn	1.68193e-06	0.999993	9.87130e-06	0.999958
rad56	1.59874e-06	0.999995	9.38301e-06	0.999967
rad40anti	1.25564e-06	0.999996	7.36935e-06	0.999975
rad55	1.07703e-06	0.999997	6.32112e-06	0.999981
rad53	1.00840e-06	0.999998	5.91834e-06	0.999987
rad62	8.81786e-07	0.999999	5.17522e-06	0.999992
rad61	7.98455e-07	1.000000	4.68615e-06	0.999997
rad43	3.67979e-07	1.000000	2.15967e-06	0.999999
rad42	1.74775e-07	1.000000	1.02576e-06	1.000000
rad41	7.77074e-08	1.000000	4.56066e-07	1.000000
rad23	2.69432e-14	1.000000	1.58130e-13	1.000000
rad20	2.02983e-14	1.000000	1.19131e-13	1.000000
rad9	1.28196e-14	1.000000	7.52383e-14	1.000000
rad45	1.20404e-14	1.000000	7.06652e-14	1.000000
rad6	1.01231e-14	1.000000	5.94123e-14	1.000000
rad21	8.13806e-15	1.000000	4.77624e-14	1.000000
rad11	4.75801e-15	1.000000	2.79249e-14	1.000000
rad22	4.21574e-15	1.000000	2.47422e-14	1.000000
rad36	2.31501e-15	1.000000	1.35868e-14	1.000000
rad8	1.91572e-15	1.000000	1.12434e-14	1.000000
rad18	1.80284e-15	1.000000	1.05809e-14	1.000000
rad15	1.23517e-15	1.000000	7.24925e-15	1.000000
rad47	7.59707e-16	1.000000	4.45873e-15	1.000000
rad12	6.32118e-16	1.000000	3.70991e-15	1.000000
rad24	5.63439e-16	1.000000	3.30683e-15	1.000000
rad7	4.44313e-16	1.000000	2.60768e-15	1.000000
rad28	4.32580e-16	1.000000	2.53882e-15	1.000000
rad26	1.38065e-16	1.000000	8.10306e-16	1.000000
rad13	7.33179e-17	1.000000	4.30304e-16	1.000000
rad10	5.95623e-17	1.000000	3.49572e-16	1.000000
rad25	4.50617e-17	1.000000	2.64468e-16	1.000000
rad5	1.84869e-17	1.000000	1.08500e-16	1.000000
rad33	7.87849e-18	1.000000	4.62390e-17	1.000000
rad2	4.66345e-18	1.000000	2.73699e-17	1.000000
rad1	2.65787e-18	1.000000	1.55991e-17	1.000000
rad14	9.45611e-19	1.000000	5.54980e-18	1.000000
rad27	4.76374e-19	1.000000	2.79585e-18	1.000000
rad3	1.99423e-19	1.000000	1.17041e-18	1.000000
rad4	1.11254e-19	1.000000	6.52953e-19	1.000000

0.100000000E-02 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28297e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.816017	0.816017	0.000000	0.000000
PhCH2CCH+H	0.109584	0.925601	0.595618	0.595618
PhCHCCH2+H	0.0267098	0.952311	0.145175	0.740793
Ph+Allene	0.0193046	0.971615	0.104926	0.845719
Indene+H	0.0160484	0.987664	0.0872277	0.932947
PAH3+H	0.00329013	0.990954	0.0178828	0.950829
PAH7+H	0.00121791	0.992172	0.00661968	0.957449
PAH9+H	0.000864009	0.993036	0.00469613	0.962145
PhCCH+CH3	0.000720156	0.993756	0.00391424	0.966060
rad19anti	0.000708493	0.994464	0.00385085	0.969910
Ph+MeAc	0.000663934	0.995128	0.00360866	0.973519
rad50	0.000616859	0.995745	0.00335280	0.976872
rad38	0.000560144	0.996305	0.00304454	0.979916

rad39	0.000491035	0.996796	0.00266891	0.982585
rad51	0.000408498	0.997205	0.00222030	0.984806
rad30	0.000396478	0.997601	0.00215497	0.986961
rad35	0.000343096	0.997945	0.00186482	0.988825
rad46	0.000239253	0.998184	0.00130041	0.990126
rad59	0.000231903	0.998416	0.00126046	0.991386
rad67	0.000214260	0.998630	0.00116456	0.992551
PhCCCH3+H	0.000213580	0.998844	0.00116087	0.993712
rad71	0.000187844	0.999031	0.00102098	0.994733
rad19syn	0.000163941	0.999195	0.000891067	0.995624
PAH10+CH3	0.000121536	0.999317	0.000660582	0.996284
rad60syn	0.000108396	0.999425	0.000589161	0.996873
rad60anti	8.05427e-05	0.999506	0.000437772	0.997311
rad52	7.82960e-05	0.999584	0.000425560	0.997737
rad58	7.77572e-05	0.999662	0.000422632	0.998159
PAH1+H	7.70001e-05	0.999739	0.000418517	0.998578
rad73	7.03552e-05	0.999809	0.000382400	0.998960
PhcycC3H3_A+H	3.98813e-05	0.999849	0.000216766	0.999177
rad70	3.09908e-05	0.999880	0.000168444	0.999346
PAH8+H	2.94355e-05	0.999910	0.000159990	0.999506
rad72	2.58284e-05	0.999935	0.000140384	0.999646
rad37	1.30848e-05	0.999948	7.11194e-05	0.999717
rad34	1.30497e-05	0.999961	7.09289e-05	0.999788
rad54	1.00584e-05	0.999972	5.46703e-05	0.999843
rad65	9.63686e-06	0.999981	5.23790e-05	0.999895
rad68syn	3.67778e-06	0.999985	1.99898e-05	0.999915
rad68anti	2.34154e-06	0.999987	1.27269e-05	0.999928
rad40syn	2.31359e-06	0.999990	1.25750e-05	0.999940
rad64	2.19077e-06	0.999992	1.19074e-05	0.999952
rad56	1.94741e-06	0.999994	1.05847e-05	0.999963
rad40anti	1.74691e-06	0.999995	9.49492e-06	0.999972
rad53	1.18744e-06	0.999997	6.45406e-06	0.999979
rad55	1.16170e-06	0.999998	6.31418e-06	0.999985
rad62	1.07271e-06	0.999999	5.83046e-06	0.999991
rad61	9.59661e-07	1.000000	5.21602e-06	0.999996
rad43	4.20278e-07	1.000000	2.28433e-06	0.999998
rad42	2.24298e-07	1.000000	1.21912e-06	1.000000
rad41	9.47630e-08	1.000000	5.15063e-07	1.000000
rad20	1.54923e-14	1.000000	8.42047e-14	1.000000
rad23	1.44789e-14	1.000000	7.86969e-14	1.000000
rad9	8.24739e-15	1.000000	4.48268e-14	1.000000
rad45	7.24447e-15	1.000000	3.93757e-14	1.000000
rad21	5.97854e-15	1.000000	3.24950e-14	1.000000
rad6	5.24365e-15	1.000000	2.85007e-14	1.000000
rad11	3.59981e-15	1.000000	1.95660e-14	1.000000
rad22	2.60012e-15	1.000000	1.41324e-14	1.000000
rad8	1.76788e-15	1.000000	9.60889e-15	1.000000
rad36	1.39866e-15	1.000000	7.60212e-15	1.000000
rad18	1.20670e-15	1.000000	6.55875e-15	1.000000
rad15	8.31405e-16	1.000000	4.51892e-15	1.000000
rad47	7.97227e-16	1.000000	4.33315e-15	1.000000
rad12	4.90407e-16	1.000000	2.66550e-15	1.000000
rad24	4.12849e-16	1.000000	2.24395e-15	1.000000
rad28	2.84817e-16	1.000000	1.54806e-15	1.000000
rad7	2.66593e-16	1.000000	1.44901e-15	1.000000
rad26	9.30201e-17	1.000000	5.05590e-16	1.000000
rad13	4.73272e-17	1.000000	2.57236e-16	1.000000
rad10	4.24108e-17	1.000000	2.30514e-16	1.000000
rad25	3.78502e-17	1.000000	2.05726e-16	1.000000
rad5	1.76968e-17	1.000000	9.61868e-17	1.000000
rad33	5.47163e-18	1.000000	2.97398e-17	1.000000
rad2	3.50102e-18	1.000000	1.90290e-17	1.000000
rad1	2.04490e-18	1.000000	1.11146e-17	1.000000
rad14	8.43873e-19	1.000000	4.58668e-18	1.000000
rad27	3.99728e-19	1.000000	2.17263e-18	1.000000
rad3	1.31447e-19	1.000000	7.14451e-19	1.000000
rad4	7.27949e-20	1.000000	3.95660e-19	1.000000

0.100000000E-03 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999817	0.999817	0.999818	0.999818
rad6	0.000181921	0.999999	0.000181921	1.000000
Benzyl+C2H2	8.11917e-07	1.000000	0.000000	1.000000
rad7	1.37424e-08	1.000000	1.37424e-08	1.000000

rad11	3.57138e-09	1.000000	3.57139e-09	1.000000
rad2	1.56381e-09	1.000000	1.56381e-09	1.000000
rad23	5.60391e-10	1.000000	5.60392e-10	1.000000
rad3	1.49272e-10	1.000000	1.49272e-10	1.000000
rad1	9.88368e-11	1.000000	9.88369e-11	1.000000
rad10	7.92938e-11	1.000000	7.92939e-11	1.000000
rad4	7.54648e-11	1.000000	7.54649e-11	1.000000
rad13	7.29601e-11	1.000000	7.29602e-11	1.000000
rad45	4.79350e-12	1.000000	4.79351e-12	1.000000
rad20	1.16456e-12	1.000000	1.16456e-12	1.000000
rad21	7.26375e-13	1.000000	7.26376e-13	1.000000
rad22	3.08682e-13	1.000000	3.08682e-13	1.000000
rad36	2.98598e-13	1.000000	2.98598e-13	1.000000
rad33	1.37695e-13	1.000000	1.37695e-13	1.000000
rad18	6.34253e-15	1.000000	6.34254e-15	1.000000
rad35	2.42860e-15	1.000000	2.42860e-15	1.000000
rad28	1.70044e-16	1.000000	1.70044e-16	1.000000
PAH9+H	1.62760e-16	1.000000	1.62760e-16	1.000000
rad26	3.00628e-17	1.000000	3.00628e-17	1.000000
rad27	4.60533e-19	1.000000	4.60533e-19	1.000000
rad38	2.99009e-19	1.000000	2.99010e-19	1.000000
rad24	1.07445e-19	1.000000	1.07445e-19	1.000000
rad31	6.20852e-20	1.000000	6.20852e-20	1.000000
PhCHCCH2+H	1.28056e-20	1.000000	1.28057e-20	1.000000
rad30	3.78748e-21	1.000000	3.78748e-21	1.000000
PhCCH+CH3	2.25630e-21	1.000000	2.25630e-21	1.000000
rad25	1.47124e-21	1.000000	1.47124e-21	1.000000
PhCCCH3+H	5.44863e-22	1.000000	5.44863e-22	1.000000
rad14	2.71062e-22	1.000000	2.71062e-22	1.000000
rad15	8.21367e-24	1.000000	8.21368e-24	1.000000
rad8	5.99533e-26	1.000000	5.99533e-26	1.000000
rad9	1.19581e-27	1.000000	1.19581e-27	1.000000
PAH7+H	3.05615e-28	1.000000	3.05615e-28	1.000000
Ph+MeAc	1.25263e-28	1.000000	1.25263e-28	1.000000
rad46	2.47726e-29	1.000000	2.47726e-29	1.000000
rad12	2.05912e-29	1.000000	2.05912e-29	1.000000
rad39	2.80094e-30	1.000000	2.80094e-30	1.000000
Ph+Allene	4.87413e-32	1.000000	4.87414e-32	1.000000
rad60syn	3.07140e-36	1.000000	3.07140e-36	1.000000
rad60anti	8.18124e-38	1.000000	8.18125e-38	1.000000
PhCH2CCH+H	1.30461e-38	1.000000	1.30461e-38	1.000000
rad37	1.70947e-39	1.000000	1.70948e-39	1.000000
rad5	1.34407e-42	1.000000	1.34408e-42	1.000000
PAH3+H	3.79316e-47	1.000000	3.79316e-47	1.000000
rad59	2.01589e-47	1.000000	2.01589e-47	1.000000
rad50	6.56707e-48	1.000000	6.56708e-48	1.000000
rad19syn	8.39169e-56	1.000000	8.39169e-56	1.000000
rad52	9.76214e-60	1.000000	9.76214e-60	1.000000
rad54	1.12822e-60	1.000000	1.12823e-60	1.000000
PAH10+CH3	7.41630e-61	1.000000	7.41630e-61	1.000000
rad43	1.70137e-61	1.000000	1.70137e-61	1.000000
rad62	5.37739e-64	1.000000	5.37739e-64	1.000000
rad51	5.99288e-67	1.000000	5.99288e-67	1.000000
rad70	7.04926e-70	1.000000	7.04926e-70	1.000000
PhcycC3H3_A+H	3.00296e-70	1.000000	3.00297e-70	1.000000
rad55	1.61616e-70	1.000000	1.61616e-70	1.000000
rad65	4.31217e-72	1.000000	4.31217e-72	1.000000
rad58	1.01379e-73	1.000000	1.01379e-73	1.000000
PAH1+H	1.43486e-75	1.000000	1.43486e-75	1.000000
rad34	9.39517e-78	1.000000	9.39518e-78	1.000000
rad42	6.79938e-82	1.000000	6.79938e-82	1.000000
rad41	8.55710e-83	1.000000	8.55711e-83	1.000000
rad47	2.54853e-84	1.000000	2.54853e-84	1.000000

0.100000000E-03 Pa, 30.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	1.15918e-108	(1.00)	1.15918e-108	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999814	0.999814	0.999815	0.999815
rad6	0.000184548	0.999999	0.000184548	1.000000
Benzyl+C2H2	1.04104e-06	1.000000	0.00000	1.000000
rad7	1.36484e-08	1.000000	1.36484e-08	1.000000
rad11	3.42444e-09	1.000000	3.42444e-09	1.000000
rad2	3.37156e-09	1.000000	3.37156e-09	1.000000
rad1	2.13214e-10	1.000000	2.13215e-10	1.000000
rad10	1.69801e-10	1.000000	1.69802e-10	1.000000

rad3	1.57776e-10	1.000000	1.57776e-10	1.000000
rad4	7.97758e-11	1.000000	7.97759e-11	1.000000
rad13	7.40342e-11	1.000000	7.40343e-11	1.000000
rad23	4.49035e-11	1.000000	4.49035e-11	1.000000
rad20	5.67584e-13	1.000000	5.67584e-13	1.000000
rad45	3.59556e-13	1.000000	3.59557e-13	1.000000
rad21	3.54056e-13	1.000000	3.54056e-13	1.000000
rad33	1.39773e-13	1.000000	1.39773e-13	1.000000
rad22	3.61644e-14	1.000000	3.61644e-14	1.000000
rad36	2.23907e-14	1.000000	2.23907e-14	1.000000
rad35	4.75044e-15	1.000000	4.75044e-15	1.000000
rad18	2.88033e-15	1.000000	2.88033e-15	1.000000
rad28	4.10260e-16	1.000000	4.10260e-16	1.000000
PAH9+H	1.06192e-16	1.000000	1.06192e-16	1.000000
rad26	9.28110e-17	1.000000	9.28111e-17	1.000000
rad27	8.55871e-19	1.000000	8.55872e-19	1.000000
rad38	1.91015e-19	1.000000	1.91015e-19	1.000000
rad31	9.15737e-20	1.000000	9.15738e-20	1.000000
PhCHCCH2+H	3.05096e-20	1.000000	3.05096e-20	1.000000
rad24	1.88903e-20	1.000000	1.88903e-20	1.000000
rad30	8.45785e-21	1.000000	8.45786e-21	1.000000
PhCCH+CH3	4.99352e-21	1.000000	4.99352e-21	1.000000
rad25	1.76231e-21	1.000000	1.76231e-21	1.000000
PhCCCH3+H	1.18741e-21	1.000000	1.18742e-21	1.000000
rad14	3.46838e-22	1.000000	3.46838e-22	1.000000
rad15	1.93123e-23	1.000000	1.93124e-23	1.000000
rad8	1.06223e-25	1.000000	1.06223e-25	1.000000
rad9	1.73000e-27	1.000000	1.73000e-27	1.000000
PAH7+H	4.74018e-28	1.000000	4.74018e-28	1.000000
Ph+MeAc	1.33584e-28	1.000000	1.33584e-28	1.000000
rad46	5.12575e-29	1.000000	5.12575e-29	1.000000
rad12	2.63003e-29	1.000000	2.63003e-29	1.000000
rad39	3.23575e-30	1.000000	3.23575e-30	1.000000
Ph+Allene	3.31417e-32	1.000000	3.31417e-32	1.000000
rad60syn	2.30935e-36	1.000000	2.30936e-36	1.000000
rad60anti	4.82403e-38	1.000000	4.82404e-38	1.000000
PhCH2CCH+H	3.67821e-39	1.000000	3.67821e-39	1.000000
rad37	4.19974e-40	1.000000	4.19975e-40	1.000000
rad5	3.03697e-43	1.000000	3.03697e-43	1.000000
PAH3+H	7.07621e-48	1.000000	7.07622e-48	1.000000
rad59	3.77417e-48	1.000000	3.77417e-48	1.000000
rad50	1.34209e-48	1.000000	1.34209e-48	1.000000
rad19syn	1.01021e-56	1.000000	1.01022e-56	1.000000
rad52	1.19159e-60	1.000000	1.19159e-60	1.000000
rad54	1.28126e-61	1.000000	1.28126e-61	1.000000
PAH10+CH3	8.43284e-62	1.000000	8.43285e-62	1.000000
rad43	1.93561e-62	1.000000	1.93561e-62	1.000000
rad62	5.99057e-65	1.000000	5.99057e-65	1.000000
rad51	6.67048e-68	1.000000	6.67048e-68	1.000000
rad70	7.66939e-71	1.000000	7.66940e-71	1.000000
PhcycC3H3_A+H	3.26450e-71	1.000000	3.26450e-71	1.000000
rad55	1.75698e-71	1.000000	1.75698e-71	1.000000
rad65	4.70894e-73	1.000000	4.70895e-73	1.000000
rad58	1.10140e-74	1.000000	1.10140e-74	1.000000
PAH1+H	1.55288e-76	1.000000	1.55288e-76	1.000000
rad34	1.02179e-78	1.000000	1.02179e-78	1.000000
rad42	7.44393e-83	1.000000	7.44394e-83	1.000000
rad41	9.42004e-84	1.000000	9.42005e-84	1.000000
rad47	1.37627e-85	1.000000	1.37627e-85	1.000000

0.100000000E-03 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999809	0.999809	0.999810	0.999810
rad6	0.000189861	0.999999	0.000189861	1.000000
Benzyl+C2H2	1.52901e-06	1.000000	0.000000	1.000000
rad7	1.39353e-08	1.000000	1.39354e-08	1.000000
rad2	5.49974e-09	1.000000	5.49975e-09	1.000000
rad11	3.46423e-09	1.000000	3.46423e-09	1.000000
rad1	3.48226e-10	1.000000	3.48227e-10	1.000000
rad10	2.76488e-10	1.000000	2.76488e-10	1.000000
rad3	1.69361e-10	1.000000	1.69361e-10	1.000000
rad4	8.56599e-11	1.000000	8.56601e-11	1.000000
rad13	7.62358e-11	1.000000	7.62359e-11	1.000000
rad23	1.12627e-11	1.000000	1.12627e-11	1.000000

rad20	3.70853e-13	1.00000	3.70853e-13	1.000000
rad21	2.31407e-13	1.00000	2.31407e-13	1.000000
rad33	1.43994e-13	1.00000	1.43994e-13	1.000000
rad45	8.71540e-14	1.00000	8.71541e-14	1.000000
rad35	6.04543e-14	1.00000	6.04544e-14	1.000000
rad22	1.20020e-14	1.00000	1.20021e-14	1.000000
rad36	5.42405e-15	1.00000	5.42406e-15	1.000000
rad18	1.83920e-15	1.00000	1.83920e-15	1.000000
rad28	8.97533e-16	1.00000	8.97534e-16	1.000000
PAH9+H	5.62954e-16	1.00000	5.62955e-16	1.000000
rad26	2.22541e-16	1.00000	2.22541e-16	1.000000
rad27	1.53101e-18	1.00000	1.53102e-18	1.000000
rad38	2.31332e-19	1.00000	2.31332e-19	1.000000
rad31	1.27322e-19	1.00000	1.27323e-19	1.000000
PhCHCCH2+H	6.58636e-20	1.00000	6.58637e-20	1.000000
rad30	1.83762e-20	1.00000	1.83762e-20	1.000000
PhCCH+CH3	1.03538e-20	1.00000	1.03538e-20	1.000000
rad24	9.79703e-21	1.00000	9.79705e-21	1.000000
rad25	2.62486e-21	1.00000	2.62486e-21	1.000000
PhCCCH3+H	2.43303e-21	1.00000	2.43304e-21	1.000000
rad14	5.26844e-22	1.00000	5.26845e-22	1.000000
rad15	4.19745e-23	1.00000	4.19746e-23	1.000000
rad8	1.88514e-25	1.00000	1.88514e-25	1.000000
rad9	2.68017e-27	1.00000	2.68017e-27	1.000000
PAH7+H	7.29323e-28	1.00000	7.29325e-28	1.000000
Ph+MeAc	1.71547e-28	1.00000	1.71547e-28	1.000000
rad46	1.02321e-28	1.00000	1.02321e-28	1.000000
rad12	3.71920e-29	1.00000	3.71921e-29	1.000000
rad39	4.23197e-30	1.00000	4.23198e-30	1.000000
Ph+Allene	3.31132e-32	1.00000	3.31132e-32	1.000000
rad60syn	2.42237e-36	1.00000	2.42238e-36	1.000000
rad60anti	4.47126e-38	1.00000	4.47126e-38	1.000000
PhCH2CCH+H	2.49158e-39	1.00000	2.49158e-39	1.000000
rad37	2.70850e-40	1.00000	2.70850e-40	1.000000
rad5	1.90674e-43	1.00000	1.90675e-43	1.000000
PAH3+H	4.17965e-48	1.00000	4.17965e-48	1.000000
rad59	2.23116e-48	1.00000	2.23116e-48	1.000000
rad50	8.14620e-49	1.00000	8.14621e-49	1.000000
rad19syn	5.47953e-57	1.00000	5.47954e-57	1.000000
rad52	6.46251e-61	1.00000	6.46252e-61	1.000000
rad54	7.00826e-62	1.00000	7.00827e-62	1.000000
PAH10+CH3	4.64551e-62	1.00000	4.64552e-62	1.000000
rad43	1.06686e-62	1.00000	1.06686e-62	1.000000
rad62	3.32303e-65	1.00000	3.32303e-65	1.000000
rad51	3.68316e-68	1.00000	3.68316e-68	1.000000
rad70	4.37381e-71	1.00000	4.37382e-71	1.000000
PhcycC3H3_A+H	1.86820e-71	1.00000	1.86820e-71	1.000000
rad55	1.00511e-71	1.00000	1.00511e-71	1.000000
rad65	2.65634e-73	1.00000	2.65635e-73	1.000000
rad58	6.32222e-75	1.00000	6.32223e-75	1.000000
PAH1+H	9.18626e-77	1.00000	9.18628e-77	1.000000
rad34	6.10818e-79	1.00000	6.10818e-79	1.000000
rad42	4.58459e-83	1.00000	4.58459e-83	1.000000
rad41	5.93022e-84	1.00000	5.93023e-84	1.000000
rad47	5.45244e-86	1.00000	5.45245e-86	1.000000

0.100000000E-03 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.31816e-70 (1.00)	2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999801	0.999801	0.999803	0.999803
rad6	0.000197025	0.999998	0.000197025	1.00000
Benzyl+C2H2	2.26157e-06	1.00000	0.00000	1.00000
rad7	1.44113e-08	1.00000	1.44113e-08	1.00000
rad2	8.15918e-09	1.00000	8.15919e-09	1.00000
rad11	3.56742e-09	1.00000	3.56743e-09	1.00000
rad1	5.17521e-10	1.00000	5.17522e-10	1.00000
rad10	4.10130e-10	1.00000	4.10131e-10	1.00000
rad3	1.85108e-10	1.00000	1.85108e-10	1.00000
rad4	9.36663e-11	1.00000	9.36665e-11	1.00000
rad13	7.92212e-11	1.00000	7.92214e-11	1.00000
rad23	4.33762e-12	1.00000	4.33763e-12	1.00000
rad35	3.20858e-13	1.00000	3.20858e-13	1.00000
rad20	2.71049e-13	1.00000	2.71050e-13	1.00000
rad21	1.69208e-13	1.00000	1.69209e-13	1.00000
rad33	1.49721e-13	1.00000	1.49722e-13	1.00000

rad45	3.28246e-14	1.00000	3.28246e-14	1.00000
PAH9+H	8.96913e-15	1.00000	8.96915e-15	1.00000
rad22	5.72658e-15	1.00000	5.72659e-15	1.00000
rad28	2.09684e-15	1.00000	2.09685e-15	1.00000
rad36	2.04125e-15	1.00000	2.04125e-15	1.00000
rad18	1.32952e-15	1.00000	1.32952e-15	1.00000
rad26	5.46529e-16	1.00000	5.46531e-16	1.00000
rad27	3.02895e-18	1.00000	3.02896e-18	1.00000
rad38	2.69416e-18	1.00000	2.69416e-18	1.00000
rad30	2.14869e-19	1.00000	2.14870e-19	1.00000
rad31	1.73435e-19	1.00000	1.73436e-19	1.00000
PhCHCCH2+H	1.54374e-19	1.00000	1.54374e-19	1.00000
PhCCH+CH3	2.36333e-20	1.00000	2.36334e-20	1.00000
rad24	6.80010e-21	1.00000	6.80011e-21	1.00000
PhCCCH3+H	5.50760e-21	1.00000	5.50762e-21	1.00000
rad25	4.74068e-21	1.00000	4.74069e-21	1.00000
rad14	9.63899e-22	1.00000	9.63901e-22	1.00000
rad15	9.89562e-23	1.00000	9.89564e-23	1.00000
rad8	3.84740e-25	1.00000	3.84741e-25	1.00000
rad9	4.97176e-27	1.00000	4.97177e-27	1.00000
PAH7+H	1.33147e-27	1.00000	1.33147e-27	1.00000
Ph+MeAc	2.81690e-28	1.00000	2.81691e-28	1.00000
rad46	2.27517e-28	1.00000	2.27518e-28	1.00000
rad12	6.47874e-29	1.00000	6.47876e-29	1.00000
rad39	6.98086e-30	1.00000	6.98087e-30	1.00000
Ph+Allene	4.67078e-32	1.00000	4.67079e-32	1.00000
rad60syn	3.50865e-36	1.00000	3.50866e-36	1.00000
rad60anti	6.04522e-38	1.00000	6.04523e-38	1.00000
PhCH2CCH+H	2.90467e-39	1.00000	2.90468e-39	1.00000
rad37	3.10813e-40	1.00000	3.10814e-40	1.00000
rad5	2.17052e-43	1.00000	2.17053e-43	1.00000
PAH3+H	4.66582e-48	1.00000	4.66583e-48	1.00000
rad59	2.49090e-48	1.00000	2.49091e-48	1.00000
rad50	9.15107e-49	1.00000	9.15109e-49	1.00000
rad19syn	6.31386e-57	1.00000	6.31388e-57	1.00000
rad52	7.40825e-61	1.00000	7.40827e-61	1.00000
rad54	8.35537e-62	1.00000	8.35539e-62	1.00000
PAH10+CH3	5.65494e-62	1.00000	5.65495e-62	1.00000
rad43	1.29961e-62	1.00000	1.29962e-62	1.00000
rad62	4.10375e-65	1.00000	4.10376e-65	1.00000
rad51	4.48901e-68	1.00000	4.48902e-68	1.00000
rad70	5.65427e-71	1.00000	5.65428e-71	1.00000
PhcycC3H3_A+H	2.42908e-71	1.00000	2.42909e-71	1.00000
rad55	1.30609e-71	1.00000	1.30609e-71	1.00000
rad65	3.37140e-73	1.00000	3.37141e-73	1.00000
rad58	8.26148e-75	1.00000	8.26150e-75	1.00000
PAH1+H	1.26115e-76	1.00000	1.26115e-76	1.00000
rad34	8.50648e-79	1.00000	8.50650e-79	1.00000
rad42	6.82291e-83	1.00000	6.82293e-83	1.00000
rad41	9.58622e-84	1.00000	9.58624e-84	1.00000
rad47	5.61149e-86	1.00000	5.61150e-86	1.00000

0.100000000E-03 Pa, 60.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.44107e-61 (1.00)	8.44104e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999791	0.999791	0.999794	0.999794
rad6	0.000205501	0.999997	0.000205502	1.000000
Benzyl+C2H2	3.25362e-06	1.000000	0.000000	1.000000
rad7	1.50070e-08	1.000000	1.50071e-08	1.000000
rad2	1.15019e-08	1.000000	1.15020e-08	1.000000
rad11	3.70611e-09	1.000000	3.70613e-09	1.000000
rad1	7.31125e-10	1.000000	7.31127e-10	1.000000
rad10	5.78513e-10	1.000000	5.78515e-10	1.000000
rad3	2.05236e-10	1.000000	2.05236e-10	1.000000
rad4	1.03908e-10	1.000000	1.03909e-10	1.000000
rad13	8.27700e-11	1.000000	8.27703e-11	1.000000
rad23	2.09188e-12	1.000000	2.09189e-12	1.000000
rad35	9.63170e-13	1.000000	9.63173e-13	1.000000
rad20	2.10579e-13	1.000000	2.10580e-13	1.000000
rad33	1.56539e-13	1.000000	1.56540e-13	1.000000
rad21	1.31534e-13	1.000000	1.31534e-13	1.000000
PAH9+H	6.39167e-14	1.000000	6.39169e-14	1.000000
rad45	1.55762e-14	1.000000	1.55763e-14	1.000000
rad28	5.68703e-15	1.000000	5.68705e-15	1.000000
rad22	3.27785e-15	1.000000	3.27786e-15	1.000000

rad26	1.52801e-15	1.000000	1.52802e-15	1.000000
rad18	1.02640e-15	1.000000	1.02640e-15	1.000000
rad36	9.67832e-16	1.000000	9.67835e-16	1.000000
rad38	7.78401e-17	1.000000	7.78404e-17	1.000000
rad30	2.81448e-17	1.000000	2.81449e-17	1.000000
rad27	7.05407e-18	1.000000	7.05409e-18	1.000000
PhCHCCH2+H	4.25425e-19	1.000000	4.25426e-19	1.000000
rad31	2.33022e-19	1.000000	2.33023e-19	1.000000
PhCCH+CH3	6.39781e-20	1.000000	6.39784e-20	1.000000
PhCCCH3+H	1.48268e-20	1.000000	1.48268e-20	1.000000
rad25	1.06407e-20	1.000000	1.06408e-20	1.000000
rad24	5.33172e-21	1.000000	5.33174e-21	1.000000
rad14	2.18875e-21	1.000000	2.18876e-21	1.000000
rad15	7.47746e-22	1.000000	7.47748e-22	1.000000
rad8	9.60542e-25	1.000000	9.60545e-25	1.000000
rad9	1.15888e-26	1.000000	1.15888e-26	1.000000
PAH7+H	3.05872e-27	1.000000	3.05873e-27	1.000000
Ph+MeAc	6.05798e-28	1.000000	6.05800e-28	1.000000
rad46	6.04804e-28	1.000000	6.04806e-28	1.000000
rad12	1.44689e-28	1.000000	1.44689e-28	1.000000
rad39	1.50089e-29	1.000000	1.50089e-29	1.000000
Ph+Allene	9.13970e-32	1.000000	9.13973e-32	1.000000
rad60syn	6.96799e-36	1.000000	6.96801e-36	1.000000
rad60anti	1.15505e-37	1.000000	1.15505e-37	1.000000
PhCH2CCH+H	5.20381e-39	1.000000	5.20383e-39	1.000000
rad37	5.58377e-40	1.000000	5.58379e-40	1.000000
rad5	3.90407e-43	1.000000	3.90409e-43	1.000000
PAH3+H	8.37208e-48	1.000000	8.37211e-48	1.000000
rad59	4.46834e-48	1.000000	4.46835e-48	1.000000
rad50	1.63594e-48	1.000000	1.63595e-48	1.000000
rad19syn	1.23978e-56	1.000000	1.23979e-56	1.000000
rad52	1.44332e-60	1.000000	1.44332e-60	1.000000
rad54	1.72259e-61	1.000000	1.72260e-61	1.000000
PAH10+CH3	1.24046e-61	1.000000	1.24047e-61	1.000000
rad43	2.85592e-62	1.000000	2.85593e-62	1.000000
rad62	9.08702e-65	1.000000	9.08705e-65	1.000000
rad51	9.53555e-68	1.000000	9.53558e-68	1.000000
rad70	1.29617e-70	1.000000	1.29618e-70	1.000000
PhcycC3H3_A+H	5.60957e-71	1.000000	5.60959e-71	1.000000
rad55	3.01381e-71	1.000000	3.01382e-71	1.000000
rad65	7.55095e-73	1.000000	7.55097e-73	1.000000
rad58	1.92001e-74	1.000000	1.92001e-74	1.000000
PAH1+H	3.12351e-76	1.000000	3.12352e-76	1.000000
rad34	2.14330e-78	1.000000	2.14330e-78	1.000000
rad42	2.14414e-82	1.000000	2.14415e-82	1.000000
rad41	4.18471e-83	1.000000	4.18472e-83	1.000000
rad47	1.10490e-85	1.000000	1.10490e-85	1.000000

0.100000000E-03 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.61998e-54 (1.00)	5.61996e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999780	0.999780	0.999785	0.999785
rad6	0.000215127	0.999995	0.000215128	1.00000
Benzyl+C2H2	4.55715e-06	1.000000	0.00000	1.00000
rad7	1.57003e-08	1.000000	1.57004e-08	1.00000
rad2	1.56705e-08	1.000000	1.56705e-08	1.00000
rad11	3.87167e-09	1.000000	3.87169e-09	1.00000
rad1	9.98583e-10	1.000000	9.98588e-10	1.00000
rad10	7.88977e-10	1.000000	7.88981e-10	1.00000
rad3	2.30215e-10	1.000000	2.30216e-10	1.00000
rad4	1.16629e-10	1.000000	1.16629e-10	1.00000
rad13	8.68155e-11	1.000000	8.68159e-11	1.00000
rad35	2.11029e-12	1.000000	2.11030e-12	1.00000
rad23	1.15855e-12	1.000000	1.15855e-12	1.00000
PAH9+H	2.62392e-13	1.000000	2.62394e-13	1.00000
rad20	1.70089e-13	1.000000	1.70089e-13	1.00000
rad33	1.64322e-13	1.000000	1.64323e-13	1.00000
rad21	1.06313e-13	1.000000	1.06313e-13	1.00000
rad28	1.99599e-14	1.000000	1.99600e-14	1.00000
rad45	8.52011e-15	1.000000	8.52015e-15	1.00000
rad26	5.42341e-15	1.000000	5.42344e-15	1.00000
rad22	2.09129e-15	1.000000	2.09130e-15	1.00000
rad30	1.03395e-15	1.000000	1.03396e-15	1.00000
rad38	9.18857e-16	1.000000	9.18861e-16	1.00000
rad18	8.25601e-16	1.000000	8.25604e-16	1.00000

rad36	5.28984e-16	1.000000	5.28986e-16	1.00000
rad27	2.01255e-17	1.000000	2.01256e-17	1.00000
PhCHCCH2+H	1.55253e-18	1.000000	1.55254e-18	1.00000
rad31	3.09421e-19	1.000000	3.09422e-19	1.00000
PhCCH+CH3	2.30867e-19	1.000000	2.30868e-19	1.00000
rad15	9.51554e-20	1.000000	9.51558e-20	1.00000
PhCCCH3+H	5.33176e-20	1.000000	5.33179e-20	1.00000
rad25	3.29171e-20	1.000000	3.29172e-20	1.00000
rad14	6.79100e-21	1.000000	6.79103e-21	1.00000
rad24	4.46669e-21	1.000000	4.46671e-21	1.00000
rad8	3.27050e-24	1.000000	3.27052e-24	1.00000
rad9	3.75399e-26	1.000000	3.75401e-26	1.00000
PAH7+H	9.79778e-27	1.000000	9.79783e-27	1.00000
rad46	3.64912e-27	1.000000	3.64914e-27	1.00000
Ph+MeAc	1.86257e-27	1.000000	1.86258e-27	1.00000
rad12	4.55682e-28	1.000000	4.55685e-28	1.00000
rad39	4.60235e-29	1.000000	4.60237e-29	1.00000
Ph+Allene	2.65162e-31	1.000000	2.65163e-31	1.00000
rad60syn	2.03735e-35	1.000000	2.03736e-35	1.00000
rad60anti	3.31010e-37	1.000000	3.31012e-37	1.00000
PhCH2CCH+H	1.46839e-38	1.000000	1.46839e-38	1.00000
rad37	1.60358e-39	1.000000	1.60359e-39	1.00000
rad5	1.12958e-42	1.000000	1.12958e-42	1.00000
PAH3+H	2.42769e-47	1.000000	2.42770e-47	1.00000
rad59	1.29508e-47	1.000000	1.29508e-47	1.00000
rad50	4.69945e-48	1.000000	4.69947e-48	1.00000
rad19syn	4.08077e-56	1.000000	4.08078e-56	1.00000
rad52	4.70563e-60	1.000000	4.70565e-60	1.00000
rad54	6.02278e-61	1.000000	6.02281e-61	1.00000
PAH10+CH3	5.28812e-61	1.000000	5.28815e-61	1.00000
rad43	1.22394e-61	1.000000	1.22394e-61	1.00000
rad62	3.83245e-64	1.000000	3.83246e-64	1.00000
rad51	3.46272e-67	1.000000	3.46273e-67	1.00000
rad70	5.18161e-70	1.000000	5.18163e-70	1.00000
PhcycC3H3_A+H	2.26447e-70	1.000000	2.26448e-70	1.00000
rad55	1.21525e-70	1.000000	1.21526e-70	1.00000
rad65	2.93324e-72	1.000000	2.93325e-72	1.00000
rad58	7.81612e-74	1.000000	7.81616e-74	1.00000
PAH1+H	1.39403e-75	1.000000	1.39404e-75	1.00000
rad34	9.78712e-78	1.000000	9.78716e-78	1.00000
rad42	2.36961e-81	1.000000	2.36962e-81	1.00000
rad41	8.52910e-82	1.000000	8.52914e-82	1.00000
rad47	4.03661e-85	1.000000	4.03663e-85	1.00000

0.100000000E-03 Pa, 80.0000000 K

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

Total | 7.28864e-49 (1.00) | 7.28860e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999768	0.999768	0.999774	0.999774
rad6	0.000225914	0.999994	0.000225915	1.000000
Benzyl+C2H2	6.25298e-06	1.00000	0.00000	1.000000
rad2	2.07964e-08	1.00000	2.07965e-08	1.000000
rad7	1.64875e-08	1.00000	1.64876e-08	1.000000
rad11	4.06195e-09	1.00000	4.06198e-09	1.000000
rad1	1.32893e-09	1.00000	1.32894e-09	1.000000
rad10	1.04836e-09	1.00000	1.04836e-09	1.000000
rad3	2.60613e-10	1.00000	2.60614e-10	1.000000
rad4	1.32124e-10	1.00000	1.32125e-10	1.000000
rad13	9.13632e-11	1.00000	9.13638e-11	1.000000
rad35	3.84415e-12	1.00000	3.84418e-12	1.000000
PAH9+H	7.63680e-13	1.00000	7.63685e-13	1.000000
rad23	7.04504e-13	1.00000	7.04508e-13	1.000000
rad33	1.73084e-13	1.00000	1.73085e-13	1.000000
rad20	1.41116e-13	1.00000	1.41117e-13	1.000000
rad28	9.22862e-14	1.00000	9.22867e-14	1.000000
rad21	8.82697e-14	1.00000	8.82703e-14	1.000000
rad26	2.52617e-14	1.00000	2.52619e-14	1.000000
rad30	1.51603e-14	1.00000	1.51604e-14	1.000000
rad38	5.80688e-15	1.00000	5.80692e-15	1.000000
rad45	5.12989e-15	1.00000	5.12993e-15	1.000000
rad22	1.43295e-15	1.00000	1.43296e-15	1.000000
rad18	6.82835e-16	1.00000	6.82839e-16	1.000000
rad36	3.18279e-16	1.00000	3.18281e-16	1.000000
rad27	6.45306e-17	1.00000	6.45310e-17	1.000000
PhCHCCH2+H	9.10539e-18	1.00000	9.10545e-18	1.000000
rad15	4.85176e-18	1.00000	4.85179e-18	1.000000

PhCCH+CH3	1.37643e-18	1.00000	1.37644e-18	1.000000
rad31	4.06218e-19	1.00000	4.06220e-19	1.000000
PhCCCH3+H	3.18574e-19	1.00000	3.18576e-19	1.000000
rad25	1.59679e-19	1.00000	1.59680e-19	1.000000
rad14	3.29427e-20	1.00000	3.29429e-20	1.000000
rad24	3.90172e-21	1.00000	3.90175e-21	1.000000
rad8	1.90552e-23	1.00000	1.90553e-23	1.000000
rad46	4.70906e-25	1.00000	4.70909e-25	1.000000
rad9	2.10011e-25	1.00000	2.10012e-25	1.000000
PAH7+H	5.43531e-26	1.00000	5.43535e-26	1.000000
Ph+MeAc	1.00966e-26	1.00000	1.00967e-26	1.000000
rad12	2.50595e-27	1.00000	2.50597e-27	1.000000
rad39	2.48309e-28	1.00000	2.48311e-28	1.000000
Ph+Allene	1.38968e-30	1.00000	1.38969e-30	1.000000
rad60syn	1.07118e-34	1.00000	1.07119e-34	1.000000
rad60anti	1.72686e-36	1.00000	1.72687e-36	1.000000
PhCH2CCH+H	7.78408e-38	1.00000	7.78413e-38	1.000000
rad37	8.80974e-39	1.00000	8.80979e-39	1.000000
rad5	6.29250e-42	1.00000	6.29254e-42	1.000000
PAH3+H	1.34510e-46	1.00000	1.34511e-46	1.000000
rad59	7.17091e-47	1.00000	7.17096e-47	1.000000
rad50	2.57187e-47	1.00000	2.57189e-47	1.000000
rad19syn	2.65543e-55	1.00000	2.65545e-55	1.000000
rad52	3.03900e-59	1.00000	3.03901e-59	1.000000
PAH10+CH3	6.56320e-60	1.00000	6.56324e-60	1.000000
rad54	4.25389e-60	1.00000	4.25391e-60	1.000000
rad43	1.53581e-60	1.00000	1.53582e-60	1.000000
rad62	4.70669e-63	1.00000	4.70672e-63	1.000000
rad51	2.62813e-66	1.00000	2.62815e-66	1.000000
rad70	4.63141e-69	1.00000	4.63144e-69	1.000000
PhcycC3H3_A+H	2.06876e-69	1.00000	2.06878e-69	1.000000
rad55	1.10695e-69	1.00000	1.10695e-69	1.000000
rad65	2.53414e-71	1.00000	2.53416e-71	1.000000
rad58	7.27797e-73	1.00000	7.27802e-73	1.000000
PAH1+H	1.68770e-74	1.00000	1.68771e-74	1.000000
rad34	1.26028e-76	1.00000	1.26028e-76	1.000000
rad42	1.58836e-79	1.00000	1.58837e-79	1.000000
rad41	7.53725e-80	1.00000	7.53729e-80	1.000000
rad47	3.99677e-84	1.00000	3.99680e-84	1.000000

0.100000000E-03 Pa, 90.0000000 K

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

Total | 6.85154e-45 (1.00) | 6.85148e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999754	0.999754	0.999762	0.999762
rad6	0.000237935	0.999992	0.000237937	1.000000
Benzyl+C2H2	8.45058e-06	1.00000	0.00000	1.000000
rad2	2.69842e-08	1.00000	2.69845e-08	1.000000
rad7	1.73719e-08	1.00000	1.73721e-08	1.000000
rad11	4.27721e-09	1.00000	4.27725e-09	1.000000
rad1	1.72965e-09	1.00000	1.72966e-09	1.000000
rad10	1.36227e-09	1.00000	1.36228e-09	1.000000
rad3	2.96945e-10	1.00000	2.96947e-10	1.000000
rad4	1.50664e-10	1.00000	1.50665e-10	1.000000
rad13	9.64463e-11	1.00000	9.64471e-11	1.000000
rad35	6.25008e-12	1.00000	6.25014e-12	1.000000
PAH9+H	1.77686e-12	1.00000	1.77688e-12	1.000000
rad28	4.63526e-13	1.00000	4.63530e-13	1.000000
rad23	4.58220e-13	1.00000	4.58224e-13	1.000000
rad33	1.82889e-13	1.00000	1.82891e-13	1.000000
rad26	1.30247e-13	1.00000	1.30248e-13	1.000000
rad30	1.20897e-13	1.00000	1.20898e-13	1.000000
rad20	1.19369e-13	1.00000	1.19370e-13	1.000000
rad21	7.47291e-14	1.00000	7.47297e-14	1.000000
rad38	2.43114e-14	1.00000	2.43116e-14	1.000000
rad45	3.30961e-15	1.00000	3.30964e-15	1.000000
rad22	1.03215e-15	1.00000	1.03216e-15	1.000000
rad18	5.76062e-16	1.00000	5.76067e-16	1.000000
rad36	2.05228e-16	1.00000	2.05230e-16	1.000000
rad27	1.98756e-16	1.00000	1.98757e-16	1.000000
rad15	1.02343e-16	1.00000	1.02344e-16	1.000000
PhCHCCH2+H	8.92955e-17	1.00000	8.92963e-17	1.000000
PhCCH+CH3	1.57331e-17	1.00000	1.57333e-17	1.000000
PhCCCH3+H	3.79316e-18	1.00000	3.79320e-18	1.000000
rad25	9.95448e-19	1.00000	9.95457e-19	1.000000
rad31	5.27040e-19	1.00000	5.27045e-19	1.000000

rad14	2.22357e-19	1.00000	2.22359e-19	1.000000
rad24	3.50828e-21	1.00000	3.50831e-21	1.000000
rad8	2.97834e-22	1.00000	2.97836e-22	1.000000
rad46	3.76162e-23	1.00000	3.76165e-23	1.000000
rad9	3.87492e-24	1.00000	3.87496e-24	1.000000
PAH7+H	9.55238e-25	1.00000	9.55246e-25	1.000000
Ph+MeAc	1.64783e-25	1.00000	1.64784e-25	1.000000
rad12	4.44410e-26	1.00000	4.44413e-26	1.000000
rad39	3.98226e-27	1.00000	3.98229e-27	1.000000
Ph+Allene	2.22275e-29	1.00000	2.22277e-29	1.000000
rad60syn	1.71344e-33	1.00000	1.71345e-33	1.000000
rad60anti	2.76440e-35	1.00000	2.76443e-35	1.000000
PhCH2CCH+H	1.29425e-36	1.00000	1.29426e-36	1.000000
rad37	1.55495e-37	1.00000	1.55496e-37	1.000000
rad5	1.13674e-40	1.00000	1.13675e-40	1.000000
PAH3+H	2.36907e-45	1.00000	2.36909e-45	1.000000
rad59	1.26193e-45	1.00000	1.26194e-45	1.000000
rad50	4.53564e-46	1.00000	4.53568e-46	1.000000
rad19syn	5.84653e-54	1.00000	5.84658e-54	1.000000
rad52	7.37438e-58	1.00000	7.37444e-58	1.000000
PAH10+CH3	4.47993e-58	1.00000	4.47997e-58	1.000000
rad54	1.09844e-58	1.00000	1.09845e-58	1.000000
rad43	1.05840e-58	1.00000	1.05841e-58	1.000000
rad62	3.48491e-61	1.00000	3.48494e-61	1.000000
rad51	1.10583e-64	1.00000	1.10584e-64	1.000000
rad70	2.28355e-67	1.00000	2.28357e-67	1.000000
PhcycC3H3_A+H	1.08842e-67	1.00000	1.08842e-67	1.000000
rad55	5.76466e-68	1.00000	5.76471e-68	1.000000
rad65	1.73325e-69	1.00000	1.73326e-69	1.000000
rad58	4.04699e-71	1.00000	4.04703e-71	1.000000
PAH1+H	1.83507e-72	1.00000	1.83508e-72	1.000000
rad34	1.56906e-74	1.00000	1.56908e-74	1.000000
rad42	5.30636e-77	1.00000	5.30641e-77	1.000000
rad41	2.69333e-77	1.00000	2.69335e-77	1.000000
rad47	5.79770e-82	1.00000	5.79775e-82	1.000000

0.100000000E-03 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02670e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999737	0.999737	0.999749	0.999749
rad6	0.000251285	0.999988	0.000251288	1.000000
Benzyl+C2H2	1.12936e-05	1.000000	0.000000	1.000000
rad2	3.43035e-08	1.000000	3.43039e-08	1.000000
rad7	1.83596e-08	1.000000	1.83598e-08	1.000000
rad11	4.51862e-09	1.000000	4.51867e-09	1.000000
rad1	2.20621e-09	1.000000	2.20623e-09	1.000000
rad10	1.73444e-09	1.000000	1.73446e-09	1.000000
rad3	3.39625e-10	1.000000	3.39629e-10	1.000000
rad4	1.72471e-10	1.000000	1.72473e-10	1.000000
rad13	1.02107e-10	1.000000	1.02108e-10	1.000000
rad35	9.45529e-12	1.000000	9.45540e-12	1.000000
PAH9+H	3.55527e-12	1.000000	3.55531e-12	1.000000
rad28	2.11185e-12	1.000000	2.11187e-12	1.000000
rad30	6.32352e-13	1.000000	6.32359e-13	1.000000
rad26	6.14395e-13	1.000000	6.14402e-13	1.000000
rad23	3.13580e-13	1.000000	3.13583e-13	1.000000
rad33	1.93824e-13	1.000000	1.93827e-13	1.000000
rad20	1.02448e-13	1.000000	1.02449e-13	1.000000
rad38	7.68951e-14	1.000000	7.68960e-14	1.000000
rad21	6.41941e-14	1.000000	6.41949e-14	1.000000
rad45	2.24980e-15	1.000000	2.24983e-15	1.000000
rad15	1.16356e-15	1.000000	1.16357e-15	1.000000
PhCHCCH2+H	9.98347e-16	1.000000	9.98358e-16	1.000000
rad22	7.71106e-16	1.000000	7.71115e-16	1.000000
rad27	5.39302e-16	1.000000	5.39308e-16	1.000000
rad18	4.93122e-16	1.000000	4.93128e-16	1.000000
PhCCH+CH3	2.30712e-16	1.000000	2.30715e-16	1.000000
rad36	1.39454e-16	1.000000	1.39455e-16	1.000000
PhCCCH3+H	6.03865e-17	1.000000	6.03871e-17	1.000000
rad25	5.60567e-18	1.000000	5.60573e-18	1.000000
rad14	1.45909e-18	1.000000	1.45910e-18	1.000000
rad31	6.75360e-19	1.000000	6.75368e-19	1.000000
rad8	9.08474e-21	1.000000	9.08484e-21	1.000000
rad24	3.22257e-21	1.000000	3.22260e-21	1.000000
rad46	1.26370e-21	1.000000	1.26371e-21	1.000000

rad9	2.06875e-22	1.000000	2.06877e-22	1.00000
PAH7+H	5.77076e-23	1.000000	5.77082e-23	1.00000
Ph+MeAc	2.02812e-23	1.000000	2.02815e-23	1.00000
rad12	3.50141e-24	1.000000	3.50145e-24	1.00000
rad39	4.57245e-25	1.000000	4.57250e-25	1.00000
Ph+Allene	1.89179e-27	1.000000	1.89181e-27	1.00000
rad60syn	1.45536e-31	1.000000	1.45538e-31	1.00000
rad60anti	2.36374e-33	1.000000	2.36376e-33	1.00000
PhCH2CCH+H	1.16582e-34	1.000000	1.16584e-34	1.00000
rad37	1.47050e-35	1.000000	1.47052e-35	1.00000
rad5	1.10357e-38	1.000000	1.10358e-38	1.00000
PAH3+H	2.27994e-43	1.000000	2.27997e-43	1.00000
rad59	1.21324e-43	1.000000	1.21325e-43	1.00000
rad50	4.58407e-44	1.000000	4.58412e-44	1.00000
rad19syn	7.64744e-52	1.000000	7.64752e-52	1.00000
PAH10+CH3	1.62865e-55	1.000000	1.62866e-55	1.00000
rad52	1.53646e-55	1.000000	1.53648e-55	1.00000
rad43	3.86147e-56	1.000000	3.86151e-56	1.00000
rad54	1.92006e-56	1.000000	1.92008e-56	1.00000
rad62	1.47134e-58	1.000000	1.47135e-58	1.00000
rad51	6.06966e-62	1.000000	6.06973e-62	1.00000
rad70	1.06158e-64	1.000000	1.06159e-64	1.00000
PhcycC3H3_A+H	5.44507e-65	1.000000	5.44513e-65	1.00000
rad55	2.84560e-65	1.000000	2.84563e-65	1.00000
rad65	1.54718e-66	1.000000	1.54719e-66	1.00000
rad58	2.14892e-68	1.000000	2.14894e-68	1.00000
PAH1+H	1.71860e-69	1.000000	1.71862e-69	1.00000
rad34	1.65264e-71	1.000000	1.65266e-71	1.00000
rad42	7.37310e-74	1.000000	7.37318e-74	1.00000
rad41	3.87611e-74	1.000000	3.87615e-74	1.00000
rad47	8.14104e-79	1.000000	8.14113e-79	1.00000

0.100000000E-03 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04926e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999719	0.999719	0.999734	0.999734
rad6	0.000266058	0.999985	0.000266062	1.00000
Benzyl+C2H2	1.49686e-05	1.00000	0.00000	1.00000
rad2	4.27753e-08	1.00000	4.27759e-08	1.00000
rad7	1.94570e-08	1.00000	1.94573e-08	1.00000
rad11	4.78760e-09	1.00000	4.78767e-09	1.00000
rad1	2.76118e-09	1.00000	2.76122e-09	1.00000
rad10	2.16637e-09	1.00000	2.16641e-09	1.00000
rad3	3.88774e-10	1.00000	3.88780e-10	1.00000
rad4	1.97622e-10	1.00000	1.97625e-10	1.00000
rad13	1.08389e-10	1.00000	1.08390e-10	1.00000
rad35	1.36599e-11	1.00000	1.36601e-11	1.00000
rad28	8.21824e-12	1.00000	8.21836e-12	1.00000
PAH9+H	6.41075e-12	1.00000	6.41085e-12	1.00000
rad26	2.45905e-12	1.00000	2.45908e-12	1.00000
rad30	2.44400e-12	1.00000	2.44404e-12	1.00000
rad23	2.23367e-13	1.00000	2.23370e-13	1.00000
rad33	2.05975e-13	1.00000	2.05978e-13	1.00000
rad38	1.99857e-13	1.00000	1.99860e-13	1.00000
rad20	8.89081e-14	1.00000	8.89094e-14	1.00000
rad21	5.57652e-14	1.00000	5.57660e-14	1.00000
PhCHCCH2+H	9.33843e-15	1.00000	9.33857e-15	1.00000
rad15	8.47184e-15	1.00000	8.47197e-15	1.00000
PhCCH+CH3	2.82703e-15	1.00000	2.82708e-15	1.00000
rad45	1.59354e-15	1.00000	1.59357e-15	1.00000
rad27	1.26917e-15	1.00000	1.26919e-15	1.00000
PhCCCH3+H	8.03469e-16	1.00000	8.03481e-16	1.00000
rad22	5.92183e-16	1.00000	5.92192e-16	1.00000
rad18	4.26781e-16	1.00000	4.26787e-16	1.00000
rad36	9.87528e-17	1.00000	9.87543e-17	1.00000
rad25	2.50296e-17	1.00000	2.50300e-17	1.00000
rad14	7.71678e-18	1.00000	7.71689e-18	1.00000
rad31	8.54406e-19	1.00000	8.54419e-19	1.00000
rad8	2.30404e-19	1.00000	2.30407e-19	1.00000
rad46	2.24330e-20	1.00000	2.24334e-20	1.00000
rad9	8.52980e-21	1.00000	8.52993e-21	1.00000
rad24	3.00942e-21	1.00000	3.00947e-21	1.00000
PAH7+H	2.72042e-21	1.00000	2.72046e-21	1.00000
Ph+MeAc	1.79022e-21	1.00000	1.79024e-21	1.00000
rad12	1.91848e-22	1.00000	1.91850e-22	1.00000

rad39	3.73472e-23	1.00000	3.73477e-23	1.00000
Ph+Allene	1.95538e-24	1.00000	1.95541e-24	1.00000
rad60syn	2.70860e-26	1.00000	2.70864e-26	1.00000
rad60anti	1.02869e-27	1.00000	1.02870e-27	1.00000
PhCH2CCH+H	5.26613e-32	1.00000	5.26621e-32	1.00000
rad37	6.49782e-33	1.00000	6.49792e-33	1.00000
rad5	4.91356e-36	1.00000	4.91363e-36	1.00000
PAH3+H	1.09744e-40	1.00000	1.09745e-40	1.00000
rad59	5.83464e-41	1.00000	5.83473e-41	1.00000
rad50	2.26743e-41	1.00000	2.26746e-41	1.00000
rad19syn	4.69185e-49	1.00000	4.69192e-49	1.00000
PAH10+CH3	1.58686e-52	1.00000	1.58688e-52	1.00000
rad52	1.42153e-52	1.00000	1.42155e-52	1.00000
rad43	3.76705e-53	1.00000	3.76711e-53	1.00000
rad54	1.49770e-53	1.00000	1.49773e-53	1.00000
rad62	1.67989e-55	1.00000	1.67992e-55	1.00000
rad51	1.03900e-58	1.00000	1.03901e-58	1.00000
rad70	1.72164e-61	1.00000	1.72167e-61	1.00000
PhcycC3H3_A+H	9.31138e-62	1.00000	9.31152e-62	1.00000
rad55	4.80787e-62	1.00000	4.80794e-62	1.00000
rad65	3.52553e-63	1.00000	3.52558e-63	1.00000
rad58	3.83213e-65	1.00000	3.83218e-65	1.00000
PAH1+H	4.69711e-66	1.00000	4.69718e-66	1.00000
rad34	5.07380e-68	1.00000	5.07388e-68	1.00000
rad42	2.53487e-70	1.00000	2.53491e-70	1.00000
rad41	1.36830e-70	1.00000	1.36832e-70	1.00000
rad47	2.43600e-75	1.00000	2.43604e-75	1.00000

0.100000000E-03 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87094e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999698	0.999698	0.999718	0.999718
rad6	0.000282321	0.999980	0.000282327	1.00000
Benzyl+C2H2	1.97151e-05	1.00000	0.00000	1.00000
rad2	5.23753e-08	1.00000	5.23763e-08	1.00000
rad7	2.06694e-08	1.00000	2.06698e-08	1.00000
rad11	5.08533e-09	1.00000	5.08543e-09	1.00000
rad1	3.39440e-09	1.00000	3.39446e-09	1.00000
rad10	2.65718e-09	1.00000	2.65723e-09	1.00000
rad3	4.44366e-10	1.00000	4.44375e-10	1.00000
rad4	2.26121e-10	1.00000	2.26126e-10	1.00000
rad13	1.15326e-10	1.00000	1.15328e-10	1.00000
rad28	2.73074e-11	1.00000	2.73080e-11	1.00000
rad35	1.91661e-11	1.00000	1.91665e-11	1.00000
PAH9+H	1.07493e-11	1.00000	1.07495e-11	1.00000
rad26	8.29588e-12	1.00000	8.29604e-12	1.00000
rad30	7.55672e-12	1.00000	7.55687e-12	1.00000
rad38	4.51369e-13	1.00000	4.51378e-13	1.00000
rad33	2.19415e-13	1.00000	2.19419e-13	1.00000
rad23	1.64415e-13	1.00000	1.64418e-13	1.00000
rad20	7.78315e-14	1.00000	7.78331e-14	1.00000
PhCHCCH2+H	6.78731e-14	1.00000	6.78744e-14	1.00000
rad21	4.88702e-14	1.00000	4.88712e-14	1.00000
rad15	4.43105e-14	1.00000	4.43114e-14	1.00000
PhCCH+CH3	2.59188e-14	1.00000	2.59193e-14	1.00000
PhCCCH3+H	7.89116e-15	1.00000	7.89132e-15	1.00000
rad27	2.62402e-15	1.00000	2.62407e-15	1.00000
rad45	1.16739e-15	1.00000	1.16741e-15	1.00000
rad22	4.64575e-16	1.00000	4.64584e-16	1.00000
rad18	3.72477e-16	1.00000	3.72485e-16	1.00000
rad25	8.87247e-17	1.00000	8.87264e-17	1.00000
rad36	7.23402e-17	1.00000	7.23416e-17	1.00000
rad14	3.20844e-17	1.00000	3.20850e-17	1.00000
rad8	3.86693e-18	1.00000	3.86700e-18	1.00000
rad31	1.06711e-18	1.00000	1.06713e-18	1.00000
rad46	2.47392e-19	1.00000	2.47397e-19	1.00000
rad9	2.10358e-19	1.00000	2.10363e-19	1.00000
PAH7+H	7.50332e-20	1.00000	7.50346e-20	1.00000
Ph+MeAc	7.13603e-20	1.00000	7.13617e-20	1.00000
rad12	5.83531e-21	1.00000	5.83543e-21	1.00000
rad24	2.84795e-21	1.00000	2.84800e-21	1.00000
rad39	1.43856e-21	1.00000	1.43859e-21	1.00000
Ph+Allene	1.53172e-22	1.00000	1.53175e-22	1.00000
rad60syn	1.65766e-24	1.00000	1.65770e-24	1.00000
rad60anti	9.96746e-26	1.00000	9.96766e-26	1.00000

PhCH2CCH+H	2.57531e-29	1.00000	2.57536e-29	1.00000
rad37	3.09993e-30	1.00000	3.09999e-30	1.00000
rad5	2.34808e-33	1.00000	2.34813e-33	1.00000
PAH3+H	5.72789e-38	1.00000	5.72801e-38	1.00000
rad59	3.04263e-38	1.00000	3.04269e-38	1.00000
rad50	1.15678e-38	1.00000	1.15681e-38	1.00000
rad19syn	2.93868e-46	1.00000	2.93874e-46	1.00000
PAH10+CH3	1.28628e-49	1.00000	1.28631e-49	1.00000
rad52	1.08157e-49	1.00000	1.08160e-49	1.00000
rad43	3.05646e-50	1.00000	3.05652e-50	1.00000
rad54	1.12532e-50	1.00000	1.12534e-50	1.00000
rad62	1.59625e-52	1.00000	1.59628e-52	1.00000
rad51	1.28781e-55	1.00000	1.28783e-55	1.00000
rad70	2.44816e-58	1.00000	2.44821e-58	1.00000
PhcycC3H3_A+H	1.39420e-58	1.00000	1.39423e-58	1.00000
rad55	7.09860e-59	1.00000	7.09874e-59	1.00000
rad65	5.67195e-60	1.00000	5.67206e-60	1.00000
rad58	5.96442e-62	1.00000	5.96454e-62	1.00000
PAH1+H	1.13221e-62	1.00000	1.13223e-62	1.00000
rad34	1.40212e-64	1.00000	1.40215e-64	1.00000
rad42	7.26833e-67	1.00000	7.26847e-67	1.00000
rad41	3.98525e-67	1.00000	3.98533e-67	1.00000
rad47	5.11600e-72	1.00000	5.11610e-72	1.00000

0.1000000000E-03 Pa, 130.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.94360e-35 (1.00)	3.94350e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999674	0.999674	0.999700	0.999700
rad6	0.000300102	0.999974	0.000300110	1.00000
Benzyl+C2H2	2.58378e-05	1.000000	0.00000	1.00000
rad2	6.30334e-08	1.00000	6.30350e-08	1.00000
rad7	2.19989e-08	1.00000	2.19994e-08	1.00000
rad11	5.41233e-09	1.00000	5.41247e-09	1.00000
rad1	4.10293e-09	1.00000	4.10303e-09	1.00000
rad10	3.20359e-09	1.00000	3.20368e-09	1.00000
rad3	5.06086e-10	1.00000	5.06099e-10	1.00000
rad4	2.57829e-10	1.00000	2.57836e-10	1.00000
rad13	1.22936e-10	1.00000	1.22939e-10	1.00000
rad28	7.87039e-11	1.00000	7.87059e-11	1.00000
rad35	2.64092e-11	1.00000	2.64098e-11	1.00000
rad26	2.39516e-11	1.00000	2.39522e-11	1.00000
rad30	1.97470e-11	1.00000	1.97475e-11	1.00000
PAH9+H	1.71258e-11	1.00000	1.71263e-11	1.00000
rad38	9.20236e-13	1.00000	9.20260e-13	1.00000
PhCHCCH2+H	3.89068e-13	1.00000	3.89078e-13	1.00000
rad33	2.34184e-13	1.00000	2.34190e-13	1.00000
PhCCH+CH3	1.80527e-13	1.00000	1.80531e-13	1.00000
rad15	1.80219e-13	1.00000	1.80224e-13	1.00000
rad23	1.24457e-13	1.00000	1.24460e-13	1.00000
rad20	6.86078e-14	1.00000	6.86096e-14	1.00000
PhCCCH3+H	5.80809e-14	1.00000	5.80824e-14	1.00000
rad21	4.31287e-14	1.00000	4.31298e-14	1.00000
rad27	4.85878e-15	1.00000	4.85890e-15	1.00000
rad45	8.80162e-16	1.00000	8.80185e-16	1.00000
rad22	3.70640e-16	1.00000	3.70649e-16	1.00000
rad18	3.27200e-16	1.00000	3.27208e-16	1.00000
rad25	2.58001e-16	1.00000	2.58007e-16	1.00000
rad14	1.07611e-16	1.00000	1.07613e-16	1.00000
rad36	5.45496e-17	1.00000	5.45510e-17	1.00000
rad8	4.41319e-17	1.00000	4.41331e-17	1.00000
rad9	3.29567e-18	1.00000	3.29575e-18	1.00000
rad46	1.89694e-18	1.00000	1.89699e-18	1.00000
Ph+MeAc	1.67275e-18	1.00000	1.67279e-18	1.00000
rad31	1.31611e-18	1.00000	1.31614e-18	1.00000
PAH7+H	1.28904e-18	1.00000	1.28907e-18	1.00000
rad12	1.08134e-19	1.00000	1.08137e-19	1.00000
rad39	3.26121e-20	1.00000	3.26130e-20	1.00000
Ph+Allene	5.70816e-21	1.00000	5.70831e-21	1.00000
rad24	2.72502e-21	1.00000	2.72509e-21	1.00000
rad60syn	5.24539e-23	1.00000	5.24553e-23	1.00000
rad60anti	4.01344e-24	1.00000	4.01354e-24	1.00000
PhCH2CCH+H	1.64038e-25	1.00000	1.64043e-25	1.00000
rad37	3.41897e-26	1.00000	3.41906e-26	1.00000
rad5	1.65443e-30	1.00000	1.65448e-30	1.00000
PAH3+H	4.38357e-35	1.00000	4.38368e-35	1.00000

rad59	2.32648e-35	1.00000	2.32654e-35	1.00000
rad50	8.45893e-36	1.00000	8.45915e-36	1.00000
rad19syn	2.43995e-43	1.00000	2.44001e-43	1.00000
PAH10+CH3	9.44796e-47	1.00000	9.44820e-47	1.00000
rad52	8.54661e-47	1.00000	8.54683e-47	1.00000
rad43	2.24635e-47	1.00000	2.24641e-47	1.00000
rad54	9.38233e-48	1.00000	9.38257e-48	1.00000
rad62	1.36560e-49	1.00000	1.36564e-49	1.00000
rad51	1.51684e-52	1.00000	1.51688e-52	1.00000
rad70	3.15692e-55	1.00000	3.15700e-55	1.00000
PhcycC3H3_A+H	1.89025e-55	1.00000	1.89030e-55	1.00000
rad55	9.47205e-56	1.00000	9.47230e-56	1.00000
rad65	8.61265e-57	1.00000	8.61288e-57	1.00000
rad58	8.39401e-59	1.00000	8.39423e-59	1.00000
PAH1+H	2.46495e-59	1.00000	2.46501e-59	1.00000
rad34	3.51383e-61	1.00000	3.51392e-61	1.00000
rad42	1.86815e-63	1.00000	1.86819e-63	1.00000
rad41	1.02959e-63	1.00000	1.02962e-63	1.00000
rad47	1.01771e-68	1.00000	1.01774e-68	1.00000

0.1000000000E-03 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.44756e-33 (1.00)	1.44751e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999647	0.999647	0.999681	0.999681
rad6	0.000319354	0.999966	0.000319364	1.00000
Benzyl+C2H2	3.37205e-05	1.00000	0.00000	1.00000
rad2	7.46247e-08	1.00000	7.46272e-08	1.00000
rad7	2.34427e-08	1.00000	2.34434e-08	1.00000
rad11	5.76789e-09	1.00000	5.76808e-09	1.00000
rad1	4.88043e-09	1.00000	4.88059e-09	1.00000
rad10	3.79986e-09	1.00000	3.79999e-09	1.00000
rad3	5.73357e-10	1.00000	5.73376e-10	1.00000
rad4	2.92475e-10	1.00000	2.92485e-10	1.00000
rad28	2.00181e-10	1.00000	2.00187e-10	1.00000
rad13	1.31209e-10	1.00000	1.31213e-10	1.00000
rad26	6.03260e-11	1.00000	6.03280e-11	1.00000
rad30	4.53502e-11	1.00000	4.53517e-11	1.00000
rad35	3.59955e-11	1.00000	3.59967e-11	1.00000
PAH9+H	2.63172e-11	1.00000	2.63181e-11	1.00000
PhCHCCH2+H	1.81791e-12	1.00000	1.81797e-12	1.00000
rad38	1.73912e-12	1.00000	1.73918e-12	1.00000
PhCCH+CH3	9.93699e-13	1.00000	9.93732e-13	1.00000
rad15	6.03047e-13	1.00000	6.03067e-13	1.00000
PhCCCH3+H	3.33982e-13	1.00000	3.33993e-13	1.00000
rad33	2.50271e-13	1.00000	2.50279e-13	1.00000
rad23	9.65894e-14	1.00000	9.65927e-14	1.00000
rad20	6.08155e-14	1.00000	6.08175e-14	1.00000
rad21	3.82782e-14	1.00000	3.82795e-14	1.00000
rad27	8.20495e-15	1.00000	8.20522e-15	1.00000
rad45	6.80816e-16	1.00000	6.80839e-16	1.00000
rad25	6.36662e-16	1.00000	6.36683e-16	1.00000
rad8	3.64546e-16	1.00000	3.64558e-16	1.00000
rad14	3.01074e-16	1.00000	3.01084e-16	1.00000
rad22	2.99702e-16	1.00000	2.99713e-16	1.00000
rad18	2.88882e-16	1.00000	2.88892e-16	1.00000
rad36	4.22102e-17	1.00000	4.22116e-17	1.00000
rad9	3.55612e-17	1.00000	3.55624e-17	1.00000
Ph+MeAc	2.55213e-17	1.00000	2.55221e-17	1.00000
PAH7+H	1.49946e-17	1.00000	1.49951e-17	1.00000
rad46	1.09610e-17	1.00000	1.09614e-17	1.00000
rad31	1.60375e-18	1.00000	1.60380e-18	1.00000
rad12	1.33708e-18	1.00000	1.33713e-18	1.00000
rad39	4.81164e-19	1.00000	4.81180e-19	1.00000
Ph+Allene	1.26593e-19	1.00000	1.26597e-19	1.00000
rad24	2.63210e-21	1.00000	2.63219e-21	1.00000
rad60syn	1.00438e-21	1.00000	1.00442e-21	1.00000
rad60anti	9.33499e-23	1.00000	9.33530e-23	1.00000
PhCH2CCH+H	1.17651e-23	1.00000	1.17655e-23	1.00000
rad37	3.35700e-24	1.00000	3.35711e-24	1.00000
rad5	6.92949e-27	1.00000	6.92972e-27	1.00000
PAH3+H	1.15606e-28	1.00000	1.15610e-28	1.00000
rad59	5.78040e-29	1.00000	5.78059e-29	1.00000
rad50	7.59902e-30	1.00000	7.59928e-30	1.00000
rad19syn	1.56613e-40	1.00000	1.56618e-40	1.00000
rad52	4.46714e-44	1.00000	4.46729e-44	1.00000

PAH10+CH3	4.38915e-44	1.00000	4.38930e-44	1.00000
rad43	1.04381e-44	1.00000	1.04385e-44	1.00000
rad54	5.61874e-45	1.00000	5.61893e-45	1.00000
rad62	7.32406e-47	1.00000	7.32431e-47	1.00000
rad51	1.10960e-49	1.00000	1.10964e-49	1.00000
rad70	2.52930e-52	1.00000	2.52938e-52	1.00000
PhcycC3H3_A+H	1.59294e-52	1.00000	1.59299e-52	1.00000
rad55	7.83783e-53	1.00000	7.83809e-53	1.00000
rad65	8.14855e-54	1.00000	8.14883e-54	1.00000
rad58	7.34162e-56	1.00000	7.34187e-56	1.00000
PAH1+H	3.32898e-56	1.00000	3.32909e-56	1.00000
rad34	5.45134e-58	1.00000	5.45152e-58	1.00000
rad42	3.01265e-60	1.00000	3.01275e-60	1.00000
rad41	1.65156e-60	1.00000	1.65162e-60	1.00000
rad47	1.27342e-65	1.00000	1.27346e-65	1.00000

0.100000000E-03 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27722e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999616	0.999616	0.999660	0.999660
rad6	0.000339933	0.999956	0.000339948	1.000000
Benzyl+C2H2	4.38420e-05	1.000000	0.000000	1.000000
rad2	8.69787e-08	1.000000	8.69825e-08	1.000000
rad7	2.49909e-08	1.000000	2.49920e-08	1.000000
rad11	6.14958e-09	1.000000	6.14985e-09	1.000000
rad1	5.71766e-09	1.000000	5.71792e-09	1.000000
rad10	4.43762e-09	1.000000	4.43781e-09	1.000000
rad3	6.45245e-10	1.000000	6.45274e-10	1.000000
rad28	4.56269e-10	1.000000	4.56289e-10	1.000000
rad4	3.29607e-10	1.000000	3.29621e-10	1.000000
rad13	1.40094e-10	1.000000	1.40100e-10	1.000000
rad26	1.34951e-10	1.000000	1.34957e-10	1.000000
rad30	9.41738e-11	1.000000	9.41779e-11	1.000000
rad35	4.87497e-11	1.000000	4.87519e-11	1.000000
PAH9+H	3.94158e-11	1.000000	3.94175e-11	1.000000
PhCHCCH2+H	7.14935e-12	1.000000	7.14966e-12	1.000000
PhCCH+CH3	4.49156e-12	1.000000	4.49175e-12	1.000000
rad38	3.10397e-12	1.000000	3.10411e-12	1.000000
rad15	1.72993e-12	1.000000	1.73001e-12	1.000000
PhCCCH3+H	1.56231e-12	1.000000	1.56238e-12	1.000000
rad33	2.67589e-13	1.000000	2.67601e-13	1.000000
rad23	7.67300e-14	1.000000	7.67333e-14	1.000000
rad20	5.41548e-14	1.000000	5.41572e-14	1.000000
rad21	3.41319e-14	1.000000	3.41334e-14	1.000000
rad27	1.28302e-14	1.000000	1.28307e-14	1.000000
rad8	2.30783e-15	1.000000	2.30793e-15	1.000000
rad25	1.37200e-15	1.000000	1.37206e-15	1.000000
rad14	7.24200e-16	1.000000	7.24231e-16	1.000000
rad45	5.39340e-16	1.000000	5.39364e-16	1.000000
rad9	2.83140e-16	1.000000	2.83152e-16	1.000000
Ph+MeAc	2.74933e-16	1.000000	2.74945e-16	1.000000
rad18	2.56062e-16	1.000000	2.56073e-16	1.000000
rad22	2.45003e-16	1.000000	2.45014e-16	1.000000
PAH7+H	1.26951e-16	1.000000	1.26956e-16	1.000000
rad46	5.06264e-17	1.000000	5.06286e-17	1.000000
rad36	3.34589e-17	1.000000	3.34603e-17	1.000000
rad12	1.19031e-17	1.000000	1.19036e-17	1.000000
rad39	5.01418e-18	1.000000	5.01440e-18	1.000000
rad31	1.93199e-18	1.000000	1.93207e-18	1.000000
Ph+Allene	1.87559e-18	1.000000	1.87567e-18	1.000000
rad60syn	1.29343e-20	1.000000	1.29349e-20	1.000000
rad24	2.56347e-21	1.000000	2.56358e-21	1.000000
rad60anti	1.41998e-21	1.000000	1.42004e-21	1.000000
PhCH2CCH+H	3.67380e-22	1.000000	3.67396e-22	1.000000
rad37	1.01538e-22	1.000000	1.01543e-22	1.000000
rad5	3.28936e-25	1.000000	3.28950e-25	1.000000
PAH3+H	1.81868e-26	1.000000	1.81876e-26	1.000000
rad59	8.19765e-27	1.000000	8.19801e-27	1.000000
rad50	5.49334e-28	1.000000	5.49358e-28	1.000000
rad19syn	3.04644e-37	1.000000	3.04657e-37	1.000000
rad52	5.15098e-41	1.000000	5.15121e-41	1.000000
PAH10+CH3	2.79405e-41	1.000000	2.79417e-41	1.000000
rad54	8.94067e-42	1.000000	8.94106e-42	1.000000
rad43	6.61551e-42	1.000000	6.61580e-42	1.000000
rad62	5.02271e-44	1.000000	5.02293e-44	1.000000

rad51	1.16250e-46	1.000000	1.16256e-46	1.00000
rad70	2.35284e-49	1.000000	2.35294e-49	1.00000
PhcycC3H3_A+H	1.51845e-49	1.000000	1.51852e-49	1.00000
rad55	7.38491e-50	1.000000	7.38524e-50	1.00000
rad65	1.07970e-50	1.000000	1.07974e-50	1.00000
rad58	7.18839e-53	1.000000	7.18870e-53	1.00000
PAH1+H	4.36130e-53	1.000000	4.36149e-53	1.00000
rad34	7.82690e-55	1.000000	7.82724e-55	1.00000
rad42	5.30656e-57	1.000000	5.30679e-57	1.00000
rad41	2.97335e-57	1.000000	2.97348e-57	1.00000
rad47	2.22228e-62	1.000000	2.22238e-62	1.00000

0.100000000E-03 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01140e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999581	0.999581	0.999638	0.999638
rad6	0.000361574	0.999943	0.000361595	1.000000
Benzyl+C2H2	5.67937e-05	0.999999	0.000000	1.000000
rad2	9.98824e-08	0.999999	9.98881e-08	1.000000
rad7	2.66246e-08	0.999999	2.66261e-08	1.000000
rad1	6.60267e-09	1.000000	6.60305e-09	1.000000
rad11	6.55278e-09	1.000000	6.55315e-09	1.000000
rad10	5.10638e-09	1.000000	5.10667e-09	1.000000
rad28	9.44220e-10	1.000000	9.44274e-10	1.000000
rad3	7.20699e-10	1.000000	7.20740e-10	1.000000
rad4	3.68715e-10	1.000000	3.68736e-10	1.000000
rad26	2.72367e-10	1.000000	2.72382e-10	1.000000
rad30	1.80603e-10	1.000000	1.80613e-10	1.000000
rad13	1.49489e-10	1.000000	1.49498e-10	1.000000
rad35	6.57748e-11	1.000000	6.57785e-11	1.000000
PAH9+H	5.79488e-11	1.000000	5.79521e-11	1.000000
PhCHCCH2+H	2.43191e-11	1.000000	2.43204e-11	1.000000
PhCCH+CH3	1.72184e-11	1.000000	1.72194e-11	1.000000
PhCCH3+H	6.15102e-12	1.000000	6.15137e-12	1.000000
rad38	5.30146e-12	1.000000	5.30176e-12	1.000000
rad15	4.38685e-12	1.000000	4.38710e-12	1.000000
rad33	2.85954e-13	1.000000	2.85970e-13	1.000000
rad23	6.23665e-14	1.000000	6.23701e-14	1.000000
rad20	4.84066e-14	1.000000	4.84094e-14	1.000000
rad21	3.05534e-14	1.000000	3.05551e-14	1.000000
rad27	1.88080e-14	1.000000	1.88090e-14	1.000000
rad8	1.17324e-14	1.000000	1.17331e-14	1.000000
rad25	2.64209e-15	1.000000	2.64224e-15	1.000000
Ph+MeAc	2.22668e-15	1.000000	2.22681e-15	1.000000
rad9	1.75694e-15	1.000000	1.75704e-15	1.000000
rad14	1.53549e-15	1.000000	1.53557e-15	1.000000
PAH7+H	8.28616e-16	1.000000	8.28664e-16	1.000000
rad45	4.37426e-16	1.000000	4.37450e-16	1.000000
rad18	2.27676e-16	1.000000	2.27689e-16	1.000000
rad22	2.02096e-16	1.000000	2.02108e-16	1.000000
rad46	1.95341e-16	1.000000	1.95352e-16	1.000000
rad12	8.09851e-17	1.000000	8.09897e-17	1.000000
rad39	3.93222e-17	1.000000	3.93244e-17	1.000000
rad36	2.71597e-17	1.000000	2.71612e-17	1.000000
Ph+Allene	2.00221e-17	1.000000	2.00232e-17	1.000000
rad31	2.30248e-18	1.000000	2.30261e-18	1.000000
rad60syn	1.20834e-19	1.000000	1.20841e-19	1.000000
rad60anti	1.53268e-20	1.000000	1.53277e-20	1.000000
PhCH2CCH+H	7.01358e-21	1.000000	7.01398e-21	1.000000
rad24	2.51530e-21	1.000000	2.51544e-21	1.000000
rad37	1.90490e-21	1.000000	1.90500e-21	1.000000
rad5	7.52586e-24	1.000000	7.52628e-24	1.000000
PAH3+H	5.45416e-25	1.000000	5.45447e-25	1.000000
rad59	2.30290e-25	1.000000	2.30303e-25	1.000000
rad50	1.44916e-26	1.000000	1.44924e-26	1.000000
rad19syn	3.67389e-34	1.000000	3.67410e-34	1.000000
rad52	4.67041e-38	1.000000	4.67068e-38	1.000000
PAH10+CH3	1.38458e-38	1.000000	1.38466e-38	1.000000
rad54	1.06249e-38	1.000000	1.06255e-38	1.000000
rad43	3.24065e-39	1.000000	3.24083e-39	1.000000
rad62	2.34971e-41	1.000000	2.34984e-41	1.000000
rad51	6.69812e-44	1.000000	6.69850e-44	1.000000
rad70	1.34233e-46	1.000000	1.34241e-46	1.000000
PhcycC3H3_A+H	8.55733e-47	1.000000	8.55782e-47	1.000000
rad55	4.15479e-47	1.000000	4.15502e-47	1.000000

rad65	7.52459e-48	1.000000	7.52502e-48	1.000000
rad58	4.08595e-50	1.000000	4.08618e-50	1.000000
PAH1+H	2.97024e-50	1.000000	2.97041e-50	1.000000
rad34	5.73978e-52	1.000000	5.74011e-52	1.000000
rad42	4.97397e-54	1.000000	4.97425e-54	1.000000
rad41	2.87771e-54	1.000000	2.87787e-54	1.000000
rad47	2.05179e-59	1.000000	2.05191e-59	1.000000

0.100000000E-03 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54780e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999543	0.999543	0.999616	0.999616
rad6	0.000383872	0.999927	0.000383901	1.000000
Benzyl+C2H2	7.33010e-05	1.000000	0.000000	1.000000
rad2	1.13069e-07	1.000000	1.13078e-07	1.000000
rad7	2.83148e-08	1.000000	2.83168e-08	1.000000
rad1	7.51988e-09	1.000000	7.52043e-09	1.000000
rad11	6.97035e-09	1.000000	6.97086e-09	1.000000
rad10	5.79267e-09	1.000000	5.79310e-09	1.000000
rad28	1.79398e-09	1.000000	1.79411e-09	1.000000
rad3	7.98036e-10	1.000000	7.98094e-10	1.000000
rad26	5.02600e-10	1.000000	5.02637e-10	1.000000
rad4	4.08966e-10	1.000000	4.08996e-10	1.000000
rad30	3.24977e-10	1.000000	3.25001e-10	1.000000
rad13	1.59237e-10	1.000000	1.59248e-10	1.000000
rad35	8.85290e-11	1.000000	8.85355e-11	1.000000
PAH9+H	8.40310e-11	1.000000	8.40371e-11	1.000000
PhCHCCH2+H	7.31677e-11	1.000000	7.31731e-11	1.000000
PhCCH+CH3	5.74707e-11	1.000000	5.74749e-11	1.000000
PhCCCH3+H	2.09541e-11	1.000000	2.09556e-11	1.000000
rad15	1.00653e-11	1.000000	1.00660e-11	1.000000
rad38	8.74681e-12	1.000000	8.74746e-12	1.000000
rad33	3.05071e-13	1.000000	3.05093e-13	1.000000
rad23	5.19043e-14	1.000000	5.19081e-14	1.000000
rad8	4.97134e-14	1.000000	4.97171e-14	1.000000
rad20	4.34071e-14	1.000000	4.34103e-14	1.000000
rad21	2.74407e-14	1.000000	2.74427e-14	1.000000
rad27	2.61012e-14	1.000000	2.61031e-14	1.000000
Ph+MeAc	1.42373e-14	1.000000	1.42384e-14	1.000000
rad9	8.86947e-15	1.000000	8.87012e-15	1.000000
rad25	4.63048e-15	1.000000	4.63082e-15	1.000000
PAH7+H	4.36268e-15	1.000000	4.36300e-15	1.000000
rad14	2.92808e-15	1.000000	2.92829e-15	1.000000
rad46	6.51156e-16	1.000000	6.51204e-16	1.000000
rad12	4.41245e-16	1.000000	4.41277e-16	1.000000
rad45	3.63429e-16	1.000000	3.63456e-16	1.000000
rad39	2.43819e-16	1.000000	2.43836e-16	1.000000
rad18	2.02932e-16	1.000000	2.02947e-16	1.000000
rad22	1.67961e-16	1.000000	1.67973e-16	1.000000
Ph+Allene	1.63159e-16	1.000000	1.63171e-16	1.000000
rad36	2.25910e-17	1.000000	2.25926e-17	1.000000
rad31	2.71624e-18	1.000000	2.71644e-18	1.000000
rad60syn	8.67564e-19	1.000000	8.67627e-19	1.000000
rad60anti	1.24852e-19	1.000000	1.24861e-19	1.000000
PhCH2CCH+H	9.45319e-20	1.000000	9.45388e-20	1.000000
rad37	2.49465e-20	1.000000	2.49483e-20	1.000000
rad24	2.48502e-21	1.000000	2.48520e-21	1.000000
rad5	1.16439e-22	1.000000	1.16448e-22	1.000000
PAH3+H	1.00143e-23	1.000000	1.00151e-23	1.000000
rad59	4.07831e-24	1.000000	4.07861e-24	1.000000
rad50	2.47909e-25	1.000000	2.47927e-25	1.000000
rad19syn	3.67922e-29	1.000000	3.67949e-29	1.000000
rad52	2.29675e-31	1.000000	2.29692e-31	1.000000
rad54	8.15997e-36	1.000000	8.16056e-36	1.000000
PAH10+CH3	6.64666e-36	1.000000	6.64714e-36	1.000000
rad43	1.53786e-36	1.000000	1.53798e-36	1.000000
rad62	9.73117e-39	1.000000	9.73188e-39	1.000000
rad51	2.44052e-41	1.000000	2.44070e-41	1.000000
rad70	5.78940e-44	1.000000	5.78983e-44	1.000000
PhcycC3H3_A+H	3.44110e-44	1.000000	3.44135e-44	1.000000
rad55	1.69970e-44	1.000000	1.69983e-44	1.000000
rad65	2.93451e-45	1.000000	2.93472e-45	1.000000
rad58	1.59050e-47	1.000000	1.59062e-47	1.000000
PAH1+H	1.12758e-47	1.000000	1.12766e-47	1.000000
rad34	2.29097e-49	1.000000	2.29114e-49	1.000000

rad42	2.61952e-51	1.00000	2.61971e-51	1.00000
rad41	1.58127e-51	1.00000	1.58139e-51	1.00000
rad47	1.04853e-56	1.00000	1.04861e-56	1.00000

0.100000000E-03 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.69315e-29 (1.00)	4.69271e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999499	0.999499	0.999593	0.999593
rad6	0.000406283	0.999905	0.000406321	0.999999
Benzyl+C2H2	9.42452e-05	1.000000	0.000000	0.999999
rad2	1.26232e-07	1.000000	1.26244e-07	0.999999
rad7	3.00216e-08	1.000000	3.00245e-08	0.999999
rad1	8.45084e-09	1.000000	8.45163e-09	0.999999
rad11	7.39254e-09	1.000000	7.39324e-09	0.999999
rad10	6.48100e-09	1.000000	6.48161e-09	0.999999
rad28	3.15942e-09	1.000000	3.15971e-09	1.000000
rad3	8.75572e-10	1.000000	8.75654e-10	1.000000
rad26	8.57610e-10	1.000000	8.57691e-10	1.000000
rad30	5.55331e-10	1.000000	5.55384e-10	1.000000
rad4	4.49524e-10	1.000000	4.49566e-10	1.000000
PhCHCCH2+H	1.98284e-10	1.000000	1.98303e-10	1.000000
PhCCH+CH3	1.70593e-10	1.000000	1.70609e-10	1.000000
rad13	1.69116e-10	1.000000	1.69132e-10	1.000000
PAH9+H	1.20561e-10	1.000000	1.20572e-10	1.000000
rad35	1.18923e-10	1.000000	1.18935e-10	1.000000
PhCCCH3+H	6.31568e-11	1.000000	6.31628e-11	1.000000
rad15	2.12731e-11	1.000000	2.12751e-11	1.000000
rad38	1.40350e-11	1.000000	1.40363e-11	1.000000
rad33	3.24527e-13	1.000000	3.24557e-13	1.000000
rad8	1.80854e-13	1.000000	1.80871e-13	1.000000
Ph+MeAc	7.46855e-14	1.000000	7.46926e-14	1.000000
rad23	4.43091e-14	1.000000	4.43132e-14	1.000000
rad20	3.90313e-14	1.000000	3.90350e-14	1.000000
rad9	3.76828e-14	1.000000	3.76864e-14	1.000000
rad27	3.45610e-14	1.000000	3.45642e-14	1.000000
rad21	2.47160e-14	1.000000	2.47183e-14	1.000000
PAH7+H	1.92028e-14	1.000000	1.92046e-14	1.000000
rad25	7.49374e-15	1.000000	7.49445e-15	1.000000
rad14	5.10391e-15	1.000000	5.10439e-15	1.000000
rad12	1.99728e-15	1.000000	1.99747e-15	1.000000
rad46	1.92453e-15	1.000000	1.92471e-15	1.000000
rad39	1.24263e-15	1.000000	1.24275e-15	1.000000
Ph+Allene	1.06155e-15	1.000000	1.06165e-15	1.000000
rad45	3.09908e-16	1.000000	3.09937e-16	1.000000
rad18	1.81228e-16	1.000000	1.81245e-16	1.000000
rad22	1.40489e-16	1.000000	1.40502e-16	1.000000
rad36	1.92920e-17	1.000000	1.92938e-17	1.000000
rad60syn	5.00636e-18	1.000000	5.00683e-18	1.000000
rad31	3.17386e-18	1.000000	3.17416e-18	1.000000
PhCH2CCH+H	9.59561e-19	1.000000	9.59651e-19	1.000000
rad60anti	8.05066e-19	1.000000	8.05142e-19	1.000000
rad37	2.42796e-19	1.000000	2.42819e-19	1.000000
rad24	2.47104e-21	1.000000	2.47128e-21	1.000000
rad5	1.32711e-21	1.000000	1.32724e-21	1.000000
PAH3+H	1.31619e-22	1.000000	1.31631e-22	1.000000
rad59	5.19674e-23	1.000000	5.19723e-23	1.000000
rad50	3.08677e-24	1.000000	3.08706e-24	1.000000
rad19syn	4.65590e-27	1.000000	4.65634e-27	1.000000
rad52	1.37729e-29	1.000000	1.37742e-29	1.000000
rad54	8.04503e-33	1.000000	8.04579e-33	1.000000
PAH10+CH3	5.44971e-33	1.000000	5.45023e-33	1.000000
rad43	1.25550e-33	1.000000	1.25562e-33	1.000000
rad62	7.20277e-36	1.000000	7.20345e-36	1.000000
rad51	1.15401e-38	1.000000	1.15412e-38	1.000000
rad70	4.00748e-41	1.000000	4.00786e-41	1.000000
PhcycC3H3_A+H	2.08970e-41	1.000000	2.08990e-41	1.000000
rad55	1.07753e-41	1.000000	1.07763e-41	1.000000
rad65	9.18208e-43	1.000000	9.18295e-43	1.000000
rad58	8.63520e-45	1.000000	8.63601e-45	1.000000
PAH1+H	2.99025e-45	1.000000	2.99053e-45	1.000000
rad34	5.90961e-47	1.000000	5.91017e-47	1.000000
rad42	9.20927e-49	1.000000	9.21014e-49	1.000000
rad41	5.89120e-49	1.000000	5.89175e-49	1.000000
rad47	3.85169e-54	1.000000	3.85205e-54	1.000000

0.100000000E-03 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.16530e-28 (1.00)	3.16492e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999451	0.999451	0.999572	0.999572
rad6	0.000428135	0.999879	0.000428186	1.000000
Benzyl+C2H2	0.000120689	1.000000	0.000000	1.000000
rad2	1.39025e-07	1.000000	1.39042e-07	1.000000
rad7	3.16960e-08	1.000000	3.16998e-08	1.000000
rad1	9.37415e-09	1.000000	9.37529e-09	1.000000
rad11	7.80728e-09	1.000000	7.80822e-09	1.000000
rad10	7.15403e-09	1.000000	7.15490e-09	1.000000
rad28	5.20045e-09	1.000000	5.20108e-09	1.000000
rad26	1.36620e-09	1.000000	1.36636e-09	1.000000
rad3	9.51241e-10	1.000000	9.51356e-10	1.000000
rad30	9.09567e-10	1.000000	9.09677e-10	1.000000
PhCHCCH2+H	4.91248e-10	1.000000	4.91307e-10	1.000000
rad4	4.89351e-10	1.000000	4.89411e-10	1.000000
PhCCH+CH3	4.58127e-10	1.000000	4.58182e-10	1.000000
rad13	1.78853e-10	1.000000	1.78875e-10	1.000000
PhCCCH3+H	1.71490e-10	1.000000	1.71510e-10	1.000000
PAH9+H	1.71474e-10	1.000000	1.71495e-10	1.000000
rad35	1.59443e-10	1.000000	1.59462e-10	1.000000
rad15	4.19986e-11	1.000000	4.20037e-11	1.000000
rad38	2.20092e-11	1.000000	2.20118e-11	1.000000
rad8	5.78432e-13	1.000000	5.78502e-13	1.000000
rad33	3.43803e-13	1.000000	3.43844e-13	1.000000
Ph+MeAc	3.31404e-13	1.000000	3.31444e-13	1.000000
rad9	1.38427e-13	1.000000	1.38444e-13	1.000000
PAH7+H	7.27022e-14	1.000000	7.27110e-14	1.000000
rad27	4.39374e-14	1.000000	4.39427e-14	1.000000
rad23	3.89049e-14	1.000000	3.89096e-14	1.000000
rad20	3.51818e-14	1.000000	3.51861e-14	1.000000
rad21	2.23187e-14	1.000000	2.23214e-14	1.000000
rad25	1.13299e-14	1.000000	1.13312e-14	1.000000
rad14	8.23922e-15	1.000000	8.24022e-15	1.000000
rad12	7.73322e-15	1.000000	7.73416e-15	1.000000
Ph+Allene	5.71367e-15	1.000000	5.71436e-15	1.000000
rad39	5.36838e-15	1.000000	5.36902e-15	1.000000
rad46	5.14672e-15	1.000000	5.14734e-15	1.000000
rad45	2.71947e-16	1.000000	2.71980e-16	1.000000
rad18	1.62094e-16	1.000000	1.62114e-16	1.000000
rad22	1.18173e-16	1.000000	1.18187e-16	1.000000
rad60syn	2.40533e-17	1.000000	2.40562e-17	1.000000
rad36	1.69591e-17	1.000000	1.69612e-17	1.000000
PhCH2CCH+H	7.68049e-18	1.000000	7.68141e-18	1.000000
rad60anti	4.26669e-18	1.000000	4.26721e-18	1.000000
rad31	3.67532e-18	1.000000	3.67576e-18	1.000000
rad37	1.84137e-18	1.000000	1.84159e-18	1.000000
rad5	1.17246e-20	1.000000	1.17260e-20	1.000000
rad24	2.47247e-21	1.000000	2.47277e-21	1.000000
PAH3+H	1.32118e-21	1.000000	1.32134e-21	1.000000
rad59	5.06376e-22	1.000000	5.06437e-22	1.000000
rad50	2.96723e-23	1.000000	2.96759e-23	1.000000
rad19syn	1.22285e-25	1.000000	1.22300e-25	1.000000
rad54	5.45302e-28	1.000000	5.45368e-28	1.000000
PAH10+CH3	3.67126e-28	1.000000	3.67171e-28	1.000000
rad52	3.13055e-28	1.000000	3.13092e-28	1.000000
rad43	8.93001e-29	1.000000	8.93109e-29	1.000000
rad62	4.15462e-30	1.000000	4.15512e-30	1.000000
rad51	2.56191e-31	1.000000	2.56222e-31	1.000000
rad70	7.98261e-38	1.000000	7.98357e-38	1.000000
PhcycC3H3_A+H	3.96380e-38	1.000000	3.96428e-38	1.000000
rad55	2.08424e-38	1.000000	2.08449e-38	1.000000
rad65	5.51486e-40	1.000000	5.51553e-40	1.000000
rad58	1.53251e-41	1.000000	1.53270e-41	1.000000
PAH1+H	1.34385e-42	1.000000	1.34401e-42	1.000000
rad34	1.88135e-44	1.000000	1.88158e-44	1.000000
rad42	2.98966e-46	1.000000	2.99002e-46	1.000000
rad41	2.03840e-46	1.000000	2.03865e-46	1.000000
rad47	1.45232e-51	1.000000	1.45250e-51	1.000000

0.100000000E-03 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 1.76115e-27 (1.00) 1.76088e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999397	0.999397	0.999551	0.999551
rad6	0.000448666	0.999846	0.000448735	1.000000
Benzyl+C2H2	0.000153906	1.000000	0.000000	1.000000
rad2	1.51082e-07	1.000000	1.51106e-07	1.000000
rad7	3.32815e-08	1.000000	3.32866e-08	1.000000
rad1	1.02666e-08	1.000000	1.02682e-08	1.000000
rad11	8.20068e-09	1.000000	8.20194e-09	1.000000
rad28	8.05847e-09	1.000000	8.05971e-09	1.000000
rad10	7.79275e-09	1.000000	7.79395e-09	1.000000
rad26	2.04845e-09	1.000000	2.04877e-09	1.000000
rad30	1.43812e-09	1.000000	1.43834e-09	1.000000
PhCCH+CH3	1.12873e-09	1.000000	1.12891e-09	1.000000
PhCHCCH2+H	1.12630e-09	1.000000	1.12647e-09	1.000000
rad3	1.02277e-09	1.000000	1.02292e-09	1.000000
rad4	5.27298e-10	1.000000	5.27379e-10	1.000000
PhCCCH3+H	4.25698e-10	1.000000	4.25763e-10	1.000000
PAH9+H	2.42064e-10	1.000000	2.42101e-10	1.000000
rad35	2.13299e-10	1.000000	2.13331e-10	1.000000
rad13	1.88130e-10	1.000000	1.88159e-10	1.000000
rad15	7.83105e-11	1.000000	7.83225e-11	1.000000
rad38	3.38505e-11	1.000000	3.38557e-11	1.000000
rad8	1.65789e-12	1.000000	1.65815e-12	1.000000
Ph+MeAc	1.27486e-12	1.000000	1.27505e-12	1.000000
rad9	4.49329e-13	1.000000	4.49399e-13	1.000000
rad33	3.62295e-13	1.000000	3.62351e-13	1.000000
PAH7+H	2.42236e-13	1.000000	2.42273e-13	1.000000
rad27	5.39011e-14	1.000000	5.39094e-14	1.000000
rad23	3.52578e-14	1.000000	3.52632e-14	1.000000
rad20	3.17817e-14	1.000000	3.17866e-14	1.000000
rad12	2.62187e-14	1.000000	2.62227e-14	1.000000
Ph+Allene	2.61753e-14	1.000000	2.61793e-14	1.000000
rad21	2.02009e-14	1.000000	2.02040e-14	1.000000
rad39	2.01516e-14	1.000000	2.01547e-14	1.000000
rad25	1.61545e-14	1.000000	1.61570e-14	1.000000
rad46	1.26556e-14	1.000000	1.26575e-14	1.000000
rad14	1.24495e-14	1.000000	1.24515e-14	1.000000
rad45	2.46472e-16	1.000000	2.46510e-16	1.000000
rad18	1.45162e-16	1.000000	1.45184e-16	1.000000
rad22	9.99109e-17	1.000000	9.99263e-17	1.000000
rad60syn	9.89668e-17	1.000000	9.89821e-17	1.000000
PhCH2CCH+H	5.02280e-17	1.000000	5.02357e-17	1.000000
rad60anti	1.91522e-17	1.000000	1.91552e-17	1.000000
rad36	1.54036e-17	1.000000	1.54060e-17	1.000000
rad37	1.12995e-17	1.000000	1.13013e-17	1.000000
rad31	4.22006e-18	1.000000	4.22071e-18	1.000000
rad5	8.33866e-20	1.000000	8.33995e-20	1.000000
PAH3+H	1.05453e-20	1.000000	1.05469e-20	1.000000
rad59	3.92875e-21	1.000000	3.92936e-21	1.000000
rad24	2.48902e-21	1.000000	2.48940e-21	1.000000
rad50	2.28886e-22	1.000000	2.28922e-22	1.000000
rad19syn	1.82369e-24	1.000000	1.82397e-24	1.000000
rad54	1.37079e-26	1.000000	1.37100e-26	1.000000
PAH10+CH3	9.39573e-27	1.000000	9.39717e-27	1.000000
rad52	4.44073e-27	1.000000	4.44142e-27	1.000000
rad43	2.30147e-27	1.000000	2.30182e-27	1.000000
rad62	2.68607e-28	1.000000	2.68648e-28	1.000000
rad51	1.45635e-29	1.000000	1.45657e-29	1.000000
rad65	1.67714e-32	1.000000	1.67739e-32	1.000000
rad70	1.91607e-34	1.000000	1.91637e-34	1.000000
PhcycC3H3_A+H	9.55620e-35	1.000000	9.55767e-35	1.000000
rad55	5.02718e-35	1.000000	5.02796e-35	1.000000
rad58	3.68226e-38	1.000000	3.68283e-38	1.000000
PAH1+H	2.10958e-39	1.000000	2.10990e-39	1.000000
rad34	2.01788e-41	1.000000	2.01819e-41	1.000000
rad42	6.99729e-44	1.000000	6.99837e-44	1.000000
rad41	4.82394e-44	1.000000	4.82468e-44	1.000000
rad47	4.80090e-49	1.000000	4.80164e-49	1.000000

0.100000000E-03 Pa, 210.00000 K

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

Total | 8.30956e-27 (1.00) | 8.30794e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.999337	0.999337	0.999533	0.999533
rad6	0.000467072	0.999804	0.000467163	1.00000
Benzyl+C2H2	0.000195403	0.999999	0.00000	1.00000
rad2	1.62040e-07	1.000000	1.62072e-07	1.00000
rad7	3.47181e-08	1.000000	3.47249e-08	1.00000
rad28	1.18299e-08	1.000000	1.18322e-08	1.00000
rad1	1.11045e-08	1.000000	1.11067e-08	1.00000
rad11	8.55795e-09	1.000000	8.55963e-09	1.00000
rad10	8.37838e-09	1.000000	8.38002e-09	1.00000
rad26	2.91102e-09	1.000000	2.91159e-09	1.00000
PhCCH+CH3	2.58081e-09	1.000000	2.58131e-09	1.00000
PhCHCCH2+H	2.41395e-09	1.000000	2.41442e-09	1.00000
rad30	2.20717e-09	1.000000	2.20761e-09	1.00000
rad3	1.08784e-09	1.000000	1.08805e-09	1.00000
PhCCCH3+H	9.77786e-10	1.000000	9.77977e-10	1.00000
rad4	5.62184e-10	1.000000	5.62294e-10	1.00000
PAH9+H	3.39390e-10	1.000000	3.39457e-10	1.00000
rad35	2.84611e-10	1.000000	2.84667e-10	1.00000
rad13	1.96609e-10	1.000000	1.96647e-10	1.00000
rad15	1.39121e-10	1.000000	1.39148e-10	1.00000
rad38	5.11959e-11	1.000000	5.12059e-11	1.00000
Ph+MeAc	4.33719e-12	1.000000	4.33804e-12	1.00000
rad8	4.32510e-12	1.000000	4.32595e-12	1.00000
rad9	1.31170e-12	1.000000	1.31196e-12	1.00000
PAH7+H	7.23591e-13	1.000000	7.23733e-13	1.00000
rad33	3.79350e-13	1.000000	3.79425e-13	1.00000
Ph+Allene	1.04443e-13	1.000000	1.04464e-13	1.00000
rad12	7.93281e-14	1.000000	7.93436e-14	1.00000
rad39	6.70575e-14	1.000000	6.70706e-14	1.00000
rad27	6.40720e-14	1.000000	6.40845e-14	1.00000
rad23	3.31090e-14	1.000000	3.31155e-14	1.00000
rad46	2.89831e-14	1.000000	2.89887e-14	1.00000
rad20	2.87688e-14	1.000000	2.87744e-14	1.00000
rad25	2.18903e-14	1.000000	2.18946e-14	1.00000
rad21	1.83240e-14	1.000000	1.83276e-14	1.00000
rad14	1.77621e-14	1.000000	1.77656e-14	1.00000
rad60syn	3.56738e-16	1.000000	3.56807e-16	1.00000
PhCH2CCH+H	2.76262e-16	1.000000	2.76316e-16	1.00000
rad45	2.31620e-16	1.000000	2.31666e-16	1.00000
rad18	1.30132e-16	1.000000	1.30157e-16	1.00000
rad22	8.48864e-17	1.000000	8.49030e-17	1.00000
rad60anti	7.46043e-17	1.000000	7.46189e-17	1.00000
rad37	5.78445e-17	1.000000	5.78558e-17	1.00000
rad36	1.45126e-17	1.000000	1.45154e-17	1.00000
rad31	4.80736e-18	1.000000	4.80830e-18	1.00000
rad5	4.92424e-19	1.000000	4.92520e-19	1.00000
PAH3+H	6.92393e-20	1.000000	6.92528e-20	1.00000
rad59	2.51003e-20	1.000000	2.51052e-20	1.00000
rad24	2.52092e-21	1.000000	2.52141e-21	1.00000
rad50	1.46369e-21	1.000000	1.46397e-21	1.00000
rad19syn	2.00649e-23	1.000000	2.00688e-23	1.00000
rad54	1.94219e-25	1.000000	1.94257e-25	1.00000
PAH10+CH3	1.33276e-25	1.000000	1.33302e-25	1.00000
rad52	4.73519e-26	1.000000	4.73611e-26	1.00000
rad43	3.24528e-26	1.000000	3.24591e-26	1.00000
rad62	4.87475e-27	1.000000	4.87570e-27	1.00000
rad51	2.76096e-28	1.000000	2.76150e-28	1.00000
rad70	4.14925e-29	1.000000	4.15006e-29	1.00000
PhcycC3H3_A+H	3.67693e-29	1.000000	3.67765e-29	1.00000
rad55	1.45143e-29	1.000000	1.45171e-29	1.00000
rad58	1.88403e-30	1.000000	1.88440e-30	1.00000
rad65	8.86428e-31	1.000000	8.86601e-31	1.00000
PAH1+H	5.49743e-36	1.000000	5.49850e-36	1.00000
rad34	5.08106e-38	1.000000	5.08205e-38	1.00000
rad42	2.00393e-41	1.000000	2.00432e-41	1.00000
rad41	9.12545e-42	1.000000	9.12723e-42	1.00000
rad47	4.20446e-46	1.000000	4.20528e-46	1.00000

0.100000000E-03 Pa, 220.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	3.40057e-26	(1.00)	3.39973e-26	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999270	0.999270	0.999517	0.999517
rad6	0.000482564	0.999753	0.000482683	1.000000
Benzyl+C2H2	0.000246962	1.000000	0.00000	1.000000
rad2	1.71557e-07	1.000000	1.71599e-07	1.000000

rad7	3.59465e-08	1.000000	3.59554e-08	1.000000
rad28	1.65434e-08	1.000000	1.65475e-08	1.000000
rad1	1.18645e-08	1.000000	1.18674e-08	1.000000
rad10	8.89308e-09	1.000000	8.89528e-09	1.000000
rad11	8.86444e-09	1.000000	8.86663e-09	1.000000
PhCCH+CH3	5.52839e-09	1.000000	5.52976e-09	1.000000
PhCHCCH2+H	4.87715e-09	1.000000	4.87835e-09	1.000000
rad26	3.94416e-09	1.000000	3.94514e-09	1.000000
rad30	3.30247e-09	1.000000	3.30329e-09	1.000000
PhCCCH3+H	2.09888e-09	1.000000	2.09940e-09	1.000000
rad3	1.14436e-09	1.000000	1.14464e-09	1.000000
rad4	5.92932e-10	1.000000	5.93078e-10	1.000000
PAH9+H	4.72791e-10	1.000000	4.72908e-10	1.000000
rad35	3.78635e-10	1.000000	3.78729e-10	1.000000
rad15	2.37138e-10	1.000000	2.37196e-10	1.000000
rad13	2.03949e-10	1.000000	2.04000e-10	1.000000
rad38	7.62892e-11	1.000000	7.63080e-11	1.000000
Ph+MeAc	1.32648e-11	1.000000	1.32681e-11	1.000000
rad8	1.04019e-11	1.000000	1.04045e-11	1.000000
rad9	3.49391e-12	1.000000	3.49477e-12	1.000000
PAH7+H	1.96743e-12	1.000000	1.96792e-12	1.000000
rad33	3.94314e-13	1.000000	3.94412e-13	1.000000
Ph+Allene	3.69888e-13	1.000000	3.69979e-13	1.000000
rad12	2.17544e-13	1.000000	2.17597e-13	1.000000
rad39	2.01088e-13	1.000000	2.01138e-13	1.000000
rad27	7.40497e-14	1.000000	7.40680e-14	1.000000
rad46	6.24600e-14	1.000000	6.24754e-14	1.000000
rad23	3.23405e-14	1.000000	3.23484e-14	1.000000
rad25	2.83699e-14	1.000000	2.83769e-14	1.000000
rad20	2.60925e-14	1.000000	2.60989e-14	1.000000
rad14	2.41019e-14	1.000000	2.41079e-14	1.000000
rad21	1.66567e-14	1.000000	1.66608e-14	1.000000
PhCH2CCH+H	1.30851e-15	1.000000	1.30884e-15	1.000000
rad60syn	1.14766e-15	1.000000	1.14795e-15	1.000000
rad60anti	2.57242e-16	1.000000	2.57305e-16	1.000000
rad37	2.53277e-16	1.000000	2.53339e-16	1.000000
rad45	2.26619e-16	1.000000	2.26675e-16	1.000000
rad18	1.16761e-16	1.000000	1.16790e-16	1.000000
rad22	7.24848e-17	1.000000	7.25027e-17	1.000000
rad36	1.42418e-17	1.000000	1.42453e-17	1.000000
rad31	5.43660e-18	1.000000	5.43794e-18	1.000000
rad5	2.47610e-18	1.000000	2.47671e-18	1.000000
PAH3+H	3.84305e-19	1.000000	3.84400e-19	1.000000
rad59	1.35682e-19	1.000000	1.35716e-19	1.000000
rad50	7.96561e-21	1.000000	7.96757e-21	1.000000
rad24	2.56888e-21	1.000000	2.56952e-21	1.000000
rad19syn	1.76674e-22	1.000000	1.76717e-22	1.000000
rad54	2.07826e-24	1.000000	2.07877e-24	1.000000
PAH10+CH3	1.42468e-24	1.000000	1.42503e-24	1.000000
rad52	4.06716e-25	1.000000	4.06817e-25	1.000000
rad43	3.45259e-25	1.000000	3.45344e-25	1.000000
rad62	5.97113e-26	1.000000	5.97260e-26	1.000000
rad51	3.50350e-27	1.000000	3.50437e-27	1.000000
PhcycC3H3_A+H	9.86877e-28	1.000000	9.87121e-28	1.000000
rad70	8.97251e-28	1.000000	8.97472e-28	1.000000
rad55	3.38084e-28	1.000000	3.38168e-28	1.000000
rad58	5.59628e-29	1.000000	5.59766e-29	1.000000
rad65	1.55275e-29	1.000000	1.55313e-29	1.000000
PAH1+H	3.10900e-30	1.000000	3.10977e-30	1.000000
rad34	2.04048e-35	1.000000	2.04098e-35	1.000000
rad42	4.73640e-39	1.000000	4.73757e-39	1.000000
rad47	1.49503e-39	1.000000	1.49540e-39	1.000000
rad41	1.11542e-39	1.000000	1.11570e-39	1.000000

0.100000000E-03 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22933e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999195	0.999195	0.999505	0.999505
rad6	0.000494428	0.999689	0.000494582	1.000000
Benzyl+C2H2	0.000310661	1.000000	0.000000	1.000000
rad2	1.79343e-07	1.000000	1.79398e-07	1.000000
rad7	3.69123e-08	1.000000	3.69238e-08	1.000000
rad28	2.21460e-08	1.000000	2.21529e-08	1.000000
rad1	1.25262e-08	1.000000	1.25301e-08	1.000000
PhCCH+CH3	1.11827e-08	1.000000	1.11862e-08	1.000000

PhCHCCH2+H	9.35455e-09	1.00000	9.35746e-09	1.000000
rad10	9.32096e-09	1.00000	9.32386e-09	1.000000
rad11	9.10671e-09	1.00000	9.10954e-09	1.000000
rad26	5.12131e-09	1.00000	5.12290e-09	1.000000
rad30	4.83374e-09	1.00000	4.83524e-09	1.000000
PhCCCH3+H	4.24552e-09	1.00000	4.24684e-09	1.000000
rad3	1.19044e-09	1.00000	1.19081e-09	1.000000
PAH9+H	6.54518e-10	1.00000	6.54721e-10	1.000000
rad4	6.18549e-10	1.00000	6.18741e-10	1.000000
rad35	5.02028e-10	1.00000	5.02184e-10	1.000000
rad15	3.90043e-10	1.00000	3.90165e-10	1.000000
rad13	2.09840e-10	1.00000	2.09905e-10	1.000000
rad38	1.12174e-10	1.00000	1.12208e-10	1.000000
Ph+MeAc	3.69669e-11	1.00000	3.69784e-11	1.000000
rad8	2.33067e-11	1.00000	2.33140e-11	1.000000
rad9	8.59375e-12	1.00000	8.59642e-12	1.000000
PAH7+H	4.93048e-12	1.00000	4.93202e-12	1.000000
Ph+Allene	1.18094e-12	1.00000	1.18130e-12	1.000000
rad39	5.50829e-13	1.00000	5.51001e-13	1.000000
rad12	5.47672e-13	1.00000	5.47842e-13	1.000000
rad33	4.06576e-13	1.00000	4.06702e-13	1.000000
rad46	1.27728e-13	1.00000	1.27768e-13	1.000000
rad27	8.34445e-14	1.00000	8.34705e-14	1.000000
rad25	3.53517e-14	1.00000	3.53627e-14	1.000000
rad23	3.29634e-14	1.00000	3.29736e-14	1.000000
rad14	3.12927e-14	1.00000	3.13024e-14	1.000000
rad20	2.37107e-14	1.00000	2.37181e-14	1.000000
rad21	1.51727e-14	1.00000	1.51774e-14	1.000000
PhCH2CCH+H	5.44225e-15	1.00000	5.44394e-15	1.000000
rad60syn	3.34601e-15	1.00000	3.34705e-15	1.000000
rad37	9.68340e-16	1.00000	9.68641e-16	1.000000
rad60anti	7.98104e-16	1.00000	7.98352e-16	1.000000
rad45	2.31604e-16	1.00000	2.31676e-16	1.000000
rad18	1.04846e-16	1.00000	1.04878e-16	1.000000
rad22	6.22403e-17	1.00000	6.22596e-17	1.000000
rad36	1.46056e-17	1.00000	1.46101e-17	1.000000
rad5	1.08244e-17	1.00000	1.08278e-17	1.000000
rad31	6.10755e-18	1.00000	6.10945e-18	1.000000
PAH3+H	1.84372e-18	1.00000	1.84429e-18	1.000000
rad59	6.34514e-19	1.00000	6.34711e-19	1.000000
rad50	3.76891e-20	1.00000	3.77008e-20	1.000000
rad24	2.63414e-21	1.00000	2.63496e-21	1.000000
rad19syn	1.28600e-21	1.00000	1.28640e-21	1.000000
rad54	1.79596e-23	1.00000	1.79652e-23	1.000000
PAH10+CH3	1.22693e-23	1.00000	1.22731e-23	1.000000
rad43	2.95666e-24	1.00000	2.95758e-24	1.000000
rad52	2.90474e-24	1.00000	2.90565e-24	1.000000
rad62	5.74419e-25	1.00000	5.74598e-25	1.000000
rad51	3.51921e-26	1.00000	3.52031e-26	1.000000
PhcycC3H3_A+H	1.69363e-26	1.00000	1.69416e-26	1.000000
rad70	1.30459e-26	1.00000	1.30499e-26	1.000000
rad55	5.18289e-27	1.00000	5.18450e-27	1.000000
rad58	1.02414e-27	1.00000	1.02446e-27	1.000000
PAH1+H	2.23641e-28	1.00000	2.23710e-28	1.000000
rad65	2.00230e-28	1.00000	2.00292e-28	1.000000
rad34	1.06733e-29	1.00000	1.06766e-29	1.000000
rad42	4.44097e-32	1.00000	4.44235e-32	1.000000
rad41	7.74411e-33	1.00000	7.74651e-33	1.000000
rad47	2.02043e-38	1.00000	2.02106e-38	1.000000

0.100000000E-03 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.98936e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999109	0.999109	0.999497	0.999497
rad6	0.000502083	0.999611	0.000502279	0.999999
Benzyl+C2H2	0.000388915	1.000000	0.000000	0.999999
rad2	1.85147e-07	1.000000	1.85219e-07	0.999999
rad7	3.75706e-08	1.000000	3.75852e-08	1.000000
rad28	2.85003e-08	1.000000	2.85114e-08	1.000000
PhCCH+CH3	2.15019e-08	1.000000	2.15103e-08	1.000000
PhCHCCH2+H	1.71345e-08	1.000000	1.71412e-08	1.000000
rad1	1.30705e-08	1.000000	1.30756e-08	1.000000
rad10	9.64897e-09	1.000000	9.65273e-09	1.000000
rad11	9.27358e-09	1.000000	9.27719e-09	1.000000
PhCCCH3+H	8.14863e-09	1.000000	8.15180e-09	1.000000

rad30	6.93974e-09	1.00000	6.94244e-09	1.000000
rad26	6.40103e-09	1.00000	6.40352e-09	1.000000
rad3	1.22457e-09	1.00000	1.22505e-09	1.000000
PAH9+H	9.00515e-10	1.00000	9.00866e-10	1.000000
rad35	6.63167e-10	1.00000	6.63425e-10	1.000000
rad4	6.38239e-10	1.00000	6.38488e-10	1.000000
rad15	6.21917e-10	1.00000	6.22159e-10	1.000000
rad13	2.14018e-10	1.00000	2.14102e-10	1.000000
rad38	1.62934e-10	1.00000	1.62998e-10	1.000000
Ph+MeAc	9.49377e-11	1.00000	9.49746e-11	1.000000
rad8	4.90803e-11	1.00000	4.90994e-11	1.000000
rad9	1.97138e-11	1.00000	1.97215e-11	1.000000
PAH7+H	1.15074e-11	1.00000	1.15119e-11	1.000000
Ph+Allene	3.44335e-12	1.00000	3.44469e-12	1.000000
rad39	1.39394e-12	1.00000	1.39448e-12	1.000000
rad12	1.27928e-12	1.00000	1.27977e-12	1.000000
rad33	4.15615e-13	1.00000	4.15777e-13	1.000000
rad46	2.49555e-13	1.00000	2.49652e-13	1.000000
rad27	9.19050e-14	1.00000	9.19408e-14	1.000000
rad25	4.25449e-14	1.00000	4.25615e-14	1.000000
rad14	3.90730e-14	1.00000	3.90883e-14	1.000000
rad23	3.51275e-14	1.00000	3.51412e-14	1.000000
rad20	2.15882e-14	1.00000	2.15966e-14	1.000000
PhCH2CCH+H	2.02009e-14	1.00000	2.02087e-14	1.000000
rad21	1.38502e-14	1.00000	1.38556e-14	1.000000
rad60syn	8.95372e-15	1.00000	8.95721e-15	1.000000
rad37	3.28881e-15	1.00000	3.29009e-15	1.000000
rad60anti	2.25854e-15	1.00000	2.25941e-15	1.000000
rad45	2.47785e-16	1.00000	2.47882e-16	1.000000
rad18	9.42154e-17	1.00000	9.42521e-17	1.000000
rad22	5.38002e-17	1.00000	5.38212e-17	1.000000
rad5	4.18569e-17	1.00000	4.18732e-17	1.000000
rad36	1.56881e-17	1.00000	1.56942e-17	1.000000
PAH3+H	7.78850e-18	1.00000	7.79153e-18	1.000000
rad31	6.82092e-18	1.00000	6.82357e-18	1.000000
rad59	2.61494e-18	1.00000	2.61596e-18	1.000000
rad50	1.57818e-19	1.00000	1.57879e-19	1.000000
rad19syn	7.92673e-21	1.00000	7.92981e-21	1.000000
rad24	2.71846e-21	1.00000	2.71951e-21	1.000000
rad54	1.28693e-22	1.00000	1.28743e-22	1.000000
PAH10+CH3	8.75875e-23	1.00000	8.76216e-23	1.000000
rad43	2.09925e-23	1.00000	2.10007e-23	1.000000
rad52	1.76519e-23	1.00000	1.76588e-23	1.000000
rad62	4.48198e-24	1.00000	4.48372e-24	1.000000
rad51	2.84574e-25	1.00000	2.84684e-25	1.000000
PhcycC3H3_A+H	1.83469e-25	1.00000	1.83541e-25	1.000000
rad70	1.30417e-25	1.00000	1.30468e-25	1.000000
rad55	5.31785e-26	1.00000	5.31992e-26	1.000000
rad58	1.13975e-26	1.00000	1.14020e-26	1.000000
PAH1+H	3.48984e-27	1.00000	3.49120e-27	1.000000
rad65	1.89687e-27	1.00000	1.89761e-27	1.000000
rad34	2.02047e-28	1.00000	2.02125e-28	1.000000
rad42	2.62653e-30	1.00000	2.62755e-30	1.000000
rad41	7.56057e-31	1.00000	7.56351e-31	1.000000
rad47	1.87587e-37	1.00000	1.87660e-37	1.000000

0.100000000E-03 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17706e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999010	0.999010	0.999494	0.999494
rad6	0.000505123	0.999515	0.000505368	0.999999
Benzyl+C2H2	0.000484502	1.000000	0.000000	0.999999
rad2	1.88829e-07	1.000000	1.88921e-07	1.000000
PhCCH+CH3	3.95194e-08	1.000000	3.95386e-08	1.000000
rad7	3.78888e-08	1.000000	3.79071e-08	1.000000
rad28	3.53939e-08	1.000000	3.54110e-08	1.000000
PhCHCCH2+H	3.01224e-08	1.000000	3.01370e-08	1.000000
PhCCCH3+H	1.49275e-08	1.000000	1.49348e-08	1.000000
rad1	1.34850e-08	1.000000	1.34915e-08	1.000000
rad10	9.86860e-09	1.000000	9.87338e-09	1.000000
rad30	9.79401e-09	1.000000	9.79875e-09	1.000000
rad11	9.35693e-09	1.000000	9.36147e-09	1.000000
rad26	7.73096e-09	1.000000	7.73471e-09	1.000000
rad3	1.24566e-09	1.000000	1.24626e-09	1.000000
PAH9+H	1.23137e-09	1.000000	1.23197e-09	1.000000

rad15	9.64941e-10	1.00000	9.65409e-10	1.000000
rad35	8.72521e-10	1.00000	8.72944e-10	1.000000
rad4	6.51392e-10	1.00000	6.51708e-10	1.000000
rad38	2.33999e-10	1.00000	2.34113e-10	1.000000
Ph+MeAc	2.26825e-10	1.00000	2.26935e-10	1.000000
rad13	2.16291e-10	1.00000	2.16395e-10	1.000000
rad8	9.78541e-11	1.00000	9.79016e-11	1.000000
rad9	4.25305e-11	1.00000	4.25511e-11	1.000000
PAH7+H	2.52309e-11	1.00000	2.52431e-11	1.000000
Ph+Allene	9.26952e-12	1.00000	9.27401e-12	1.000000
rad39	3.28989e-12	1.00000	3.29149e-12	1.000000
rad12	2.79731e-12	1.00000	2.79866e-12	1.000000
rad46	4.68464e-13	1.00000	4.68691e-13	1.000000
rad33	4.21040e-13	1.00000	4.21244e-13	1.000000
rad27	9.91393e-14	1.00000	9.91874e-14	1.000000
PhCH2CCH+H	6.78375e-14	1.00000	6.78704e-14	1.000000
rad25	4.96376e-14	1.00000	4.96617e-14	1.000000
rad14	4.71228e-14	1.00000	4.71456e-14	1.000000
rad23	3.91526e-14	1.00000	3.91716e-14	1.000000
rad60syn	2.22259e-14	1.00000	2.22367e-14	1.000000
rad20	1.96950e-14	1.00000	1.97045e-14	1.000000
rad21	1.26706e-14	1.00000	1.26767e-14	1.000000
rad37	1.00672e-14	1.00000	1.00721e-14	1.000000
rad60anti	5.89654e-15	1.00000	5.89940e-15	1.000000
rad45	2.77739e-16	1.00000	2.77874e-16	1.000000
rad5	1.45268e-16	1.00000	1.45338e-16	1.000000
rad18	8.47236e-17	1.00000	8.47647e-17	1.000000
rad22	4.69018e-17	1.00000	4.69245e-17	1.000000
PAH3+H	2.94239e-17	1.00000	2.94382e-17	1.000000
rad36	1.76639e-17	1.00000	1.76724e-17	1.000000
rad59	9.64535e-18	1.00000	9.65003e-18	1.000000
rad31	7.57901e-18	1.00000	7.58268e-18	1.000000
rad50	5.93621e-19	1.00000	5.93909e-19	1.000000
rad19syn	4.22521e-20	1.00000	4.22726e-20	1.000000
rad24	2.82419e-21	1.00000	2.82556e-21	1.000000
rad54	7.86486e-22	1.00000	7.86867e-22	1.000000
PAH10+CH3	5.32912e-22	1.00000	5.33171e-22	1.000000
rad43	1.26979e-22	1.00000	1.27041e-22	1.000000
rad52	9.31745e-23	1.00000	9.32197e-23	1.000000
rad62	2.94884e-23	1.00000	2.95027e-23	1.000000
rad51	1.93289e-24	1.00000	1.93383e-24	1.000000
PhcycC3H3_A+H	1.51464e-24	1.00000	1.51538e-24	1.000000
rad70	1.03228e-24	1.00000	1.03278e-24	1.000000
rad55	4.27099e-25	1.00000	4.27306e-25	1.000000
rad58	9.52950e-26	1.00000	9.53411e-26	1.000000
PAH1+H	3.26036e-26	1.00000	3.26194e-26	1.000000
rad65	1.44853e-26	1.00000	1.44924e-26	1.000000
rad34	1.95392e-27	1.00000	1.95487e-27	1.000000
rad42	2.76625e-29	1.00000	2.76759e-29	1.000000
rad41	8.02537e-30	1.00000	8.02926e-30	1.000000
rad47	1.43630e-36	1.00000	1.43700e-36	1.000000

0.100000000E-03 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19260e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998896	0.998896	0.999496	0.999496
Benzyl+C2H2	0.000600601	0.999497	0.00000	0.999496
rad6	0.000503340	1.000000	0.000503643	1.000000
rad2	1.90313e-07	1.00000	1.90428e-07	1.000000
PhCCH+CH3	6.97597e-08	1.00000	6.98016e-08	1.000000
PhCHCCH2+H	5.10427e-08	1.00000	5.10734e-08	1.000000
rad28	4.25579e-08	1.00000	4.25835e-08	1.000000
rad7	3.78490e-08	1.00000	3.78718e-08	1.00000
PhCCCH3+H	2.62295e-08	1.00000	2.62453e-08	1.00000
rad1	1.37608e-08	1.00000	1.37691e-08	1.00000
rad30	1.36112e-08	1.00000	1.36194e-08	1.00000
rad10	9.97520e-09	1.00000	9.98119e-09	1.00000
rad11	9.35223e-09	1.00000	9.35785e-09	1.00000
rad26	9.05302e-09	1.00000	9.05846e-09	1.00000
PAH9+H	1.67346e-09	1.00000	1.67447e-09	1.00000
rad15	1.46140e-09	1.00000	1.46228e-09	1.00000
rad3	1.25303e-09	1.00000	1.25378e-09	1.00000
rad35	1.14309e-09	1.00000	1.14377e-09	1.00000
rad4	6.57607e-10	1.00000	6.58003e-10	1.00000
Ph+MeAc	5.08217e-10	1.00000	5.08523e-10	1.00000

rad38	3.32513e-10	1.00000	3.32713e-10	1.00000
rad13	2.16544e-10	1.00000	2.16674e-10	1.00000
rad8	1.85860e-10	1.00000	1.85971e-10	1.00000
rad9	8.69023e-11	1.00000	8.69546e-11	1.00000
PAH7+H	5.23522e-11	1.00000	5.23836e-11	1.00000
Ph+Allene	2.32511e-11	1.00000	2.32651e-11	1.00000
rad39	7.29978e-12	1.00000	7.30417e-12	1.00000
rad12	5.76902e-12	1.00000	5.77249e-12	1.00000
rad46	8.48853e-13	1.00000	8.49363e-13	1.00000
rad33	4.22609e-13	1.00000	4.22863e-13	1.00000
PhCH2CCH+H	2.08487e-13	1.00000	2.08612e-13	1.00000
rad27	1.04930e-13	1.00000	1.04993e-13	1.00000
rad25	5.63259e-14	1.00000	5.63598e-14	1.00000
rad14	5.50946e-14	1.00000	5.51277e-14	1.00000
rad60syn	5.16397e-14	1.00000	5.16707e-14	1.00000
rad23	4.55897e-14	1.00000	4.56171e-14	1.00000
rad37	2.81164e-14	1.00000	2.81333e-14	1.00000
rad20	1.80053e-14	1.00000	1.80161e-14	1.00000
rad60anti	1.43399e-14	1.00000	1.43486e-14	1.00000
rad21	1.16180e-14	1.00000	1.16250e-14	1.00000
rad5	4.58093e-16	1.00000	4.58368e-16	1.00000
rad45	3.25926e-16	1.00000	3.26121e-16	1.00000
PAH3+H	1.00722e-16	1.00000	1.00783e-16	1.00000
rad18	7.62441e-17	1.00000	7.62899e-17	1.00000
rad22	4.13578e-17	1.00000	4.13826e-17	1.00000
rad59	3.22618e-17	1.00000	3.22812e-17	1.00000
rad36	2.08337e-17	1.00000	2.08462e-17	1.00000
rad31	8.38593e-18	1.00000	8.39097e-18	1.00000
rad50	2.03108e-18	1.00000	2.03230e-18	1.00000
rad19syn	1.98102e-19	1.00000	1.98221e-19	1.00000
rad54	4.18147e-21	1.00000	4.18398e-21	1.00000
rad24	2.95443e-21	1.00000	2.95621e-21	1.00000
PAH10+CH3	2.81745e-21	1.00000	2.81914e-21	1.00000
rad43	6.66966e-22	1.00000	6.67367e-22	1.00000
rad52	4.34407e-22	1.00000	4.34668e-22	1.00000
rad62	1.67353e-22	1.00000	1.67453e-22	1.00000
rad51	1.13376e-23	1.00000	1.13444e-23	1.00000
PhcycC3H3_A+H	1.04976e-23	1.00000	1.05039e-23	1.00000
rad70	6.90151e-24	1.00000	6.90566e-24	1.00000
rad55	2.89173e-24	1.00000	2.89347e-24	1.00000
rad58	6.67419e-25	1.00000	6.67820e-25	1.00000
PAH1+H	2.48935e-25	1.00000	2.49084e-25	1.00000
rad65	9.40609e-26	1.00000	9.41174e-26	1.00000
rad34	1.53034e-26	1.00000	1.53126e-26	1.00000
rad42	2.29616e-28	1.00000	2.29754e-28	1.00000
rad41	6.71383e-29	1.00000	6.71786e-29	1.00000
rad47	9.26847e-36	1.00000	9.27404e-36	1.00000

0.100000000E-03 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.03545e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998762	0.998762	0.999502	0.999502
Benzyl+C2H2	0.000740818	0.999503	0.00000	0.999502
rad6	0.000496735	1.00000	0.000497104	0.999999
rad2	1.89601e-07	1.00000	1.89741e-07	0.999999
PhCCH+CH3	1.18744e-07	1.00000	1.18832e-07	0.999999
PhCHCCH2+H	8.36735e-08	1.00000	8.37355e-08	0.999999
rad28	4.96926e-08	1.00000	4.97294e-08	1.00000
PhCCCH3+H	4.43943e-08	1.00000	4.44272e-08	1.00000
rad7	3.74488e-08	1.00000	3.74765e-08	1.00000
rad30	1.86540e-08	1.00000	1.86679e-08	1.00000
rad1	1.38936e-08	1.00000	1.39039e-08	1.00000
rad26	1.03088e-08	1.00000	1.03165e-08	1.00000
rad10	9.96884e-09	1.00000	9.97623e-09	1.00000
rad11	9.25870e-09	1.00000	9.26556e-09	1.00000
PAH9+H	2.26031e-09	1.00000	2.26199e-09	1.00000
rad15	2.16603e-09	1.00000	2.16763e-09	1.00000
rad35	1.49088e-09	1.00000	1.49199e-09	1.00000
rad3	1.24709e-09	1.00000	1.24802e-09	1.00000
Ph+MeAc	1.07516e-09	1.00000	1.07596e-09	1.00000
rad4	6.57036e-10	1.00000	6.57524e-10	1.00000
rad38	4.67785e-10	1.00000	4.68132e-10	1.00000
rad8	3.38070e-10	1.00000	3.38320e-10	1.00000
rad13	2.14751e-10	1.00000	2.14911e-10	1.00000
rad9	1.69185e-10	1.00000	1.69311e-10	1.00000

PAH7+H	1.03436e-10	1.00000	1.03512e-10	1.000000
Ph+Allene	5.47687e-11	1.00000	5.48093e-11	1.000000
rad39	1.53315e-11	1.00000	1.53429e-11	1.000000
rad12	1.12930e-11	1.00000	1.13014e-11	1.000000
rad46	1.49044e-12	1.00000	1.49154e-12	1.000000
PhCH2CCH+H	5.92175e-13	1.00000	5.92614e-13	1.000000
rad33	4.20246e-13	1.00000	4.20557e-13	1.000000
rad60syn	1.13155e-13	1.00000	1.13239e-13	1.000000
rad27	1.09140e-13	1.00000	1.09221e-13	1.000000
rad37	7.23962e-14	1.00000	7.24498e-14	1.000000
rad14	6.26462e-14	1.00000	6.26926e-14	1.000000
rad25	6.23380e-14	1.00000	6.23842e-14	1.000000
rad23	5.53239e-14	1.00000	5.53650e-14	1.000000
rad60anti	3.27508e-14	1.00000	3.27751e-14	1.000000
rad20	1.64968e-14	1.00000	1.65090e-14	1.000000
rad21	1.06787e-14	1.00000	1.06866e-14	1.000000
rad5	1.32639e-15	1.00000	1.32737e-15	1.000000
rad45	3.99712e-16	1.00000	4.00009e-16	1.000000
PAH3+H	3.15908e-16	1.00000	3.16142e-16	1.000000
rad59	9.89449e-17	1.00000	9.90183e-17	1.000000
rad18	6.86668e-17	1.00000	6.87177e-17	1.000000
rad22	3.70503e-17	1.00000	3.70777e-17	1.000000
rad36	2.56950e-17	1.00000	2.57141e-17	1.000000
rad31	9.24817e-18	1.00000	9.25503e-18	1.000000
rad50	6.38897e-18	1.00000	6.39371e-18	1.000000
rad19syn	8.28793e-19	1.00000	8.29408e-19	1.000000
rad54	1.96490e-20	1.00000	1.96636e-20	1.000000
PAH10+CH3	1.31483e-20	1.00000	1.31581e-20	1.000000
rad24	3.11314e-21	1.00000	3.11544e-21	1.000000
rad43	3.09036e-21	1.00000	3.09265e-21	1.000000
rad52	1.81419e-21	1.00000	1.81554e-21	1.000000
rad62	8.33295e-22	1.00000	8.33913e-22	1.000000
PhcycC3H3_A+H	6.28366e-23	1.00000	6.28832e-23	1.000000
rad51	5.84526e-23	1.00000	5.84959e-23	1.000000
rad70	3.99406e-23	1.00000	3.99702e-23	1.000000
rad55	1.69352e-23	1.00000	1.69477e-23	1.000000
rad58	4.03353e-24	1.00000	4.03652e-24	1.000000
PAH1+H	1.62718e-24	1.00000	1.62838e-24	1.000000
rad65	5.31206e-25	1.00000	5.31600e-25	1.000000
rad34	1.02473e-25	1.00000	1.02549e-25	1.000000
rad42	1.63113e-27	1.00000	1.63234e-27	1.000000
rad41	4.81328e-28	1.00000	4.81685e-28	1.000000
rad47	5.14495e-35	1.00000	5.14877e-35	1.000000

0.100000000E-03 Pa, 280.000000 K

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

Total | 1.89357e-23 (1.00) | 1.89185e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998605	0.998605	0.999513	0.999513
Benzyl+C2H2	0.000909217	0.999514	0.00000	0.999513
rad6	0.000485509	1.000000	0.000485950	0.999999
PhCCH+CH3	1.95588e-07	1.000000	1.95766e-07	0.999999
rad2	1.86828e-07	1.000000	1.86998e-07	0.999999
PhCHCCH2+H	1.33111e-07	1.000000	1.33232e-07	0.999999
PhCCCH3+H	7.26385e-08	1.000000	7.27046e-08	1.000000
rad28	5.64944e-08	1.000000	5.65459e-08	1.000000
rad7	3.67002e-08	1.000000	3.67336e-08	1.000000
rad30	2.52409e-08	1.000000	2.52639e-08	1.000000
rad1	1.38879e-08	1.000000	1.39005e-08	1.000000
rad26	1.14449e-08	1.000000	1.14553e-08	1.000000
rad10	9.85377e-09	1.000000	9.86273e-09	1.000000
rad11	9.07921e-09	1.000000	9.08747e-09	1.000000
rad15	3.14860e-09	1.000000	3.15147e-09	1.000000
PAH9+H	3.03419e-09	1.000000	3.03695e-09	1.000000
Ph+MeAc	2.16026e-09	1.000000	2.16222e-09	1.000000
rad35	1.93552e-09	1.000000	1.93728e-09	1.000000
rad3	1.22818e-09	1.000000	1.22930e-09	1.000000
rad38	6.51838e-10	1.000000	6.52431e-10	1.000000
rad4	6.49781e-10	1.000000	6.50372e-10	1.000000
rad8	5.91547e-10	1.000000	5.92086e-10	1.000000
rad9	3.15437e-10	1.000000	3.15724e-10	1.000000
rad13	2.10970e-10	1.000000	2.11162e-10	1.000000
PAH7+H	1.95627e-10	1.000000	1.95805e-10	1.000000
Ph+Allene	1.21961e-10	1.000000	1.22072e-10	1.000000
rad39	3.06576e-11	1.000000	3.06855e-11	1.000000
rad12	2.10969e-11	1.000000	2.11161e-11	1.000000

rad46	2.54407e-12	1.00000	2.54638e-12	1.000000
PhCH2CCH+H	1.56756e-12	1.00000	1.56899e-12	1.000000
rad33	4.14033e-13	1.00000	4.14409e-13	1.000000
rad60syn	2.35363e-13	1.00000	2.35577e-13	1.000000
rad37	1.73403e-13	1.00000	1.73561e-13	1.000000
rad27	1.11714e-13	1.00000	1.11816e-13	1.000000
rad60anti	7.07369e-14	1.00000	7.08013e-14	1.000000
rad23	6.97428e-14	1.00000	6.98062e-14	1.000000
rad14	6.94684e-14	1.00000	6.95316e-14	1.000000
rad25	6.74529e-14	1.00000	6.75142e-14	1.000000
rad20	1.51502e-14	1.00000	1.51640e-14	1.000000
rad21	9.84055e-15	1.00000	9.84951e-15	1.000000
rad5	3.55812e-15	1.00000	3.56136e-15	1.000000
PAH3+H	9.16497e-16	1.00000	9.17331e-16	1.000000
rad45	5.11075e-16	1.00000	5.11540e-16	1.000000
rad59	2.80896e-16	1.00000	2.81152e-16	1.000000
rad18	6.18949e-17	1.00000	6.19513e-17	1.000000
rad22	3.39314e-17	1.00000	3.39623e-17	1.000000
rad36	3.30602e-17	1.00000	3.30903e-17	1.000000
rad50	1.86449e-17	1.00000	1.86619e-17	1.000000
rad31	1.01749e-17	1.00000	1.01842e-17	1.000000
rad19syn	3.13161e-18	1.00000	3.13446e-18	1.000000
rad54	8.26545e-20	1.00000	8.27297e-20	1.000000
PAH10+CH3	5.48658e-20	1.00000	5.49157e-20	1.000000
rad43	1.27970e-20	1.00000	1.28087e-20	1.000000
rad52	6.86639e-21	1.00000	6.87264e-21	1.000000
rad62	3.68920e-21	1.00000	3.69256e-21	1.000000
rad24	3.30535e-21	1.00000	3.30836e-21	1.000000
PhcycC3H3_A+H	3.28845e-22	1.00000	3.29144e-22	1.000000
rad51	2.68188e-22	1.00000	2.68432e-22	1.000000
rad70	2.02709e-22	1.00000	2.02893e-22	1.000000
rad55	8.68905e-23	1.00000	8.69696e-23	1.000000
rad58	2.12890e-23	1.00000	2.13083e-23	1.000000
PAH1+H	9.19359e-24	1.00000	9.20196e-24	1.000000
rad65	2.64203e-24	1.00000	2.64444e-24	1.000000
rad34	5.91266e-25	1.00000	5.91804e-25	1.000000
rad42	9.90656e-27	1.00000	9.91558e-27	1.000000
rad41	2.94661e-27	1.00000	2.94929e-27	1.000000
rad47	2.49701e-34	1.00000	2.49928e-34	1.000000

0.100000000E-03 Pa, 290.000000 K

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

Total | 4.20015e-23 (1.00) | 4.19549e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998419	0.998419	0.999528	0.999528
Benzyl+C2H2	0.00111035	0.999529	0.00000	0.999528
rad6	0.000470033	0.999999	0.000470556	0.999999
PhCCH+CH3	3.12674e-07	1.000000	3.13021e-07	0.999999
PhCHCCH2+H	2.06057e-07	1.000000	2.06286e-07	0.999999
rad2	1.82124e-07	1.00000	1.82326e-07	0.999999
PhCCCH3+H	1.15256e-07	1.00000	1.15384e-07	0.999999
rad28	6.26818e-08	1.00000	6.27514e-08	0.999999
rad7	3.56288e-08	1.00000	3.56684e-08	0.999999
rad30	3.37540e-08	1.00000	3.37915e-08	1.000000
rad1	1.37473e-08	1.00000	1.37626e-08	1.000000
rad26	1.24163e-08	1.00000	1.24301e-08	1.000000
rad10	9.63795e-09	1.00000	9.64866e-09	1.000000
rad11	8.81987e-09	1.00000	8.82968e-09	1.000000
rad15	4.49699e-09	1.00000	4.50199e-09	1.000000
Ph+MeAc	4.14311e-09	1.00000	4.14771e-09	1.000000
PAH9+H	4.04803e-09	1.00000	4.05253e-09	1.000000
rad35	2.50084e-09	1.00000	2.50362e-09	1.000000
rad3	1.19733e-09	1.00000	1.19866e-09	1.000000
rad8	9.99559e-10	1.00000	1.00067e-09	1.000000
rad38	9.00055e-10	1.00000	9.01055e-10	1.000000
rad4	6.36306e-10	1.00000	6.37013e-10	1.000000
rad9	5.65706e-10	1.00000	5.66335e-10	1.000000
PAH7+H	3.55770e-10	1.00000	3.56165e-10	1.000000
Ph+Allene	2.58226e-10	1.00000	2.58513e-10	1.000000
rad13	2.05333e-10	1.00000	2.05561e-10	1.000000
rad39	5.86600e-11	1.00000	5.87252e-11	1.000000
rad12	3.77873e-11	1.00000	3.78293e-11	1.000000
rad46	4.23314e-12	1.00000	4.23784e-12	1.000000
PhCH2CCH+H	3.89526e-12	1.00000	3.89959e-12	1.000000
rad60syn	4.67288e-13	1.00000	4.67808e-13	1.000000
rad33	4.04197e-13	1.00000	4.04647e-13	1.000000

rad37	3.89333e-13	1.00000	3.89765e-13	1.000000
rad60anti	1.45349e-13	1.00000	1.45511e-13	1.000000
rad27	1.12672e-13	1.00000	1.12797e-13	1.000000
rad23	9.10033e-14	1.00000	9.11044e-14	1.000000
rad14	7.53072e-14	1.00000	7.53909e-14	1.000000
rad25	7.15111e-14	1.00000	7.15906e-14	1.000000
rad20	1.39484e-14	1.00000	1.39639e-14	1.000000
rad21	9.09322e-15	1.00000	9.10333e-15	1.000000
rad5	8.91176e-15	1.00000	8.92167e-15	1.000000
PAH3+H	2.47954e-15	1.00000	2.48229e-15	1.000000
rad59	7.44174e-16	1.00000	7.45001e-16	1.000000
rad45	6.79644e-16	1.00000	6.80399e-16	1.000000
rad18	5.58431e-17	1.00000	5.59051e-17	1.000000
rad50	5.08725e-17	1.00000	5.09290e-17	1.000000
rad36	4.42685e-17	1.00000	4.43177e-17	1.000000
rad22	3.20317e-17	1.00000	3.20673e-17	1.000000
rad31	1.11785e-17	1.00000	1.11909e-17	1.000000
rad19syn	1.07983e-17	1.00000	1.08103e-17	1.000000
rad54	3.14692e-19	1.00000	3.15041e-19	1.000000
PAH10+CH3	2.07010e-19	1.00000	2.07240e-19	1.000000
rad43	4.78950e-20	1.00000	4.79483e-20	1.000000
rad52	2.37880e-20	1.00000	2.38145e-20	1.000000
rad62	1.46921e-20	1.00000	1.47084e-20	1.000000
rad24	3.53750e-21	1.00000	3.54143e-21	1.000000
PhcycC3H3_A+H	1.52437e-21	1.00000	1.52606e-21	1.000000
rad51	1.10723e-21	1.00000	1.10846e-21	1.000000
rad70	9.13862e-22	1.00000	9.14878e-22	1.000000
rad55	3.95634e-22	1.00000	3.96074e-22	1.000000
rad58	9.94322e-23	1.00000	9.95427e-23	1.000000
PAH1+H	4.55695e-23	1.00000	4.56202e-23	1.000000
rad65	1.17141e-23	1.00000	1.17271e-23	1.000000
rad34	2.98534e-24	1.00000	2.98865e-24	1.000000
rad42	5.23317e-26	1.00000	5.23899e-26	1.000000
rad41	1.56759e-26	1.00000	1.56934e-26	1.000000
rad47	1.07468e-33	1.00000	1.07587e-33	1.000000

0.100000000E-03 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17544e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997974	0.997974	0.999634	0.999634
Benzyl+C2H2	0.00166137	0.999635	0.000000	0.999634
rad6	0.000363884	0.999999	0.000364490	0.999998
PhCCH+CH3	4.39168e-07	1.000000	4.39898e-07	0.999999
PhCHCCH2+H	2.66554e-07	1.000000	2.66998e-07	0.999999
PhCCCH3+H	1.56650e-07	1.000000	1.56910e-07	0.999999
rad2	1.37366e-07	1.000000	1.37595e-07	0.999999
rad28	5.59070e-08	1.000000	5.60000e-08	1.000000
rad30	3.74921e-08	1.000000	3.75545e-08	1.000000
rad7	3.22819e-08	1.000000	3.23356e-08	1.000000
rad26	1.15256e-08	1.000000	1.15448e-08	1.000000
rad1	1.03511e-08	1.000000	1.03683e-08	1.000000
rad10	8.45938e-09	1.000000	8.47346e-09	1.000000
rad11	7.75697e-09	1.000000	7.76988e-09	1.000000
Ph+MeAc	6.13898e-09	1.000000	6.14920e-09	1.000000
PAH9+H	5.54826e-09	1.000000	5.55749e-09	1.000000
rad35	2.76894e-09	1.000000	2.77355e-09	1.000000
rad38	1.02438e-09	1.000000	1.02609e-09	1.000000
rad3	9.56345e-10	1.000000	9.57937e-10	1.000000
PAH7+H	6.50646e-10	1.000000	6.51729e-10	1.000000
rad4	4.75593e-10	1.000000	4.76385e-10	1.000000
Ph+Allene	2.52791e-10	1.000000	2.53212e-10	1.000000
rad13	1.86167e-10	1.000000	1.86477e-10	1.000000
rad39	8.70041e-11	1.000000	8.71489e-11	1.000000
rad23	2.30541e-11	1.000000	2.30925e-11	1.000000
rad19anti	1.63822e-11	1.000000	1.64095e-11	1.000000
PhCH2CCH+H	7.52934e-12	1.000000	7.54187e-12	1.000000
rad46	5.66776e-12	1.000000	5.67719e-12	1.000000
rad20	7.81408e-13	1.000000	7.82709e-13	1.000000
rad60syn	7.07982e-13	1.000000	7.09160e-13	1.000000
rad37	6.07444e-13	1.000000	6.08455e-13	1.000000
rad21	4.99552e-13	1.000000	5.00383e-13	1.000000
rad33	4.46336e-13	1.000000	4.47079e-13	1.000000
rad45	3.18688e-13	1.000000	3.19218e-13	1.000000
rad60anti	2.13248e-13	1.000000	2.13603e-13	1.000000
rad27	1.13171e-13	1.000000	1.13359e-13	1.000000

rad14	7.51930e-14	1.00000	7.53182e-14	1.000000
rad25	6.81129e-14	1.00000	6.82263e-14	1.000000
rad22	4.58197e-14	1.00000	4.58960e-14	1.000000
rad18	1.89331e-14	1.00000	1.89646e-14	1.000000
rad36	1.08619e-14	1.00000	1.08799e-14	1.000000
PAH3+H	6.24911e-15	1.00000	6.25951e-15	1.000000
rad59	1.44647e-15	1.00000	1.44888e-15	1.000000
rad50	1.03028e-16	1.00000	1.03199e-16	1.000000
rad19syn	2.69399e-17	1.00000	2.69848e-17	1.000000
rad31	1.83404e-17	1.00000	1.83710e-17	1.000000
rad24	1.73851e-18	1.00000	1.74140e-18	1.000000
rad67	1.20289e-18	1.00000	1.20489e-18	1.000000
rad54	8.62744e-19	1.00000	8.64180e-19	1.000000
PAH10+CH3	5.72267e-19	1.00000	5.73219e-19	1.000000
rad43	1.19112e-19	1.00000	1.19310e-19	1.000000
rad9	1.14817e-19	1.00000	1.15008e-19	1.000000
rad52	6.28774e-20	1.00000	6.29821e-20	1.000000
rad62	4.05189e-20	1.00000	4.05864e-20	1.000000
PhcycC3H3_A+H	7.39055e-21	1.00000	7.40285e-21	1.000000
rad51	3.46122e-21	1.00000	3.46698e-21	1.000000
rad70	3.35470e-21	1.00000	3.36028e-21	1.000000
rad55	1.33559e-21	1.00000	1.33781e-21	1.000000
rad58	3.59869e-22	1.00000	3.60468e-22	1.000000
PAH1+H	2.76441e-22	1.00000	2.76901e-22	1.000000
rad15	6.83362e-23	1.00000	6.84499e-23	1.000000
rad65	4.20463e-23	1.00000	4.21163e-23	1.000000
rad34	1.85440e-23	1.00000	1.85749e-23	1.000000
rad42	4.75282e-25	1.00000	4.76073e-25	1.000000
rad41	1.44644e-25	1.00000	1.44885e-25	1.000000
rad5	1.52921e-26	1.00000	1.53176e-26	1.000000
rad53	6.41372e-27	1.00000	6.42440e-27	1.000000
rad12	2.07048e-27	1.00000	2.07393e-27	1.000000
rad64	1.37065e-27	1.00000	1.37294e-27	1.000000
rad56	9.21530e-30	1.00000	9.23064e-30	1.000000
rad61	1.39633e-30	1.00000	1.39865e-30	1.000000
rad68syn	1.02013e-30	1.00000	1.02183e-30	1.000000
rad68anti	7.28182e-31	1.00000	7.29394e-31	1.000000
rad73	2.79611e-33	1.00000	2.80077e-33	1.000000
rad47	2.40012e-33	1.00000	2.40412e-33	1.000000
rad40syn	2.38973e-34	1.00000	2.39371e-34	1.000000
rad40anti	7.27883e-35	1.00000	7.29095e-35	1.000000
rad71	2.29432e-35	1.00000	2.29814e-35	1.000000
PAH8+H	7.08168e-36	1.00000	7.09346e-36	1.000000
rad72	4.04059e-41	1.00000	4.04731e-41	1.000000
rad8	2.67126e-42	1.00000	2.67570e-42	1.000000

0.100000000E-03 Pa, 310.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.44453e-22 (1.00)	2.44054e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.997938	0.997938	0.999569	0.999569
Benzyl+C2H2	0.00163152	0.999570	0.00000	0.999569
rad6	0.000428490	0.999998	0.000429190	0.999998
PhCCH+CH3	7.37914e-07	0.999999	7.39119e-07	0.999999
PhCHCCH2+H	4.59111e-07	0.999999	4.59861e-07	0.999999
PhCCCH3+H	2.67395e-07	0.999999	2.67832e-07	1.000000
rad2	1.67971e-07	1.000000	1.68246e-07	1.000000
rad28	7.23141e-08	1.000000	7.24323e-08	1.000000
rad30	5.84561e-08	1.000000	5.85516e-08	1.000000
rad7	3.26697e-08	1.000000	3.27231e-08	1.000000
rad26	1.37450e-08	1.000000	1.37675e-08	1.000000
Ph+MeAc	1.34796e-08	1.000000	1.35016e-08	1.000000
rad1	1.31142e-08	1.000000	1.31356e-08	1.000000
rad10	8.95066e-09	1.000000	8.96529e-09	1.000000
rad15	8.75303e-09	1.000000	8.76734e-09	1.000000
rad11	8.09873e-09	1.000000	8.11197e-09	1.000000
PAH9+H	7.07377e-09	1.000000	7.08533e-09	1.000000
rad35	4.11443e-09	1.000000	4.12115e-09	1.000000
rad8	2.60346e-09	1.000000	2.60772e-09	1.000000
rad38	1.67205e-09	1.000000	1.67478e-09	1.000000
rad9	1.64322e-09	1.000000	1.64590e-09	1.000000
rad3	1.10572e-09	1.000000	1.10753e-09	1.000000
PAH7+H	1.06195e-09	1.000000	1.06368e-09	1.000000
Ph+Allene	1.01427e-09	1.000000	1.01593e-09	1.000000
rad4	5.93466e-10	1.000000	5.94436e-10	1.000000
rad39	1.91326e-10	1.000000	1.91639e-10	1.000000

rad13	1.89310e-10	1.000000	1.89619e-10	1.00000
rad12	1.08518e-10	1.000000	1.08695e-10	1.00000
PhCH2CCH+H	2.03812e-11	1.000000	2.04145e-11	1.00000
rad46	1.09541e-11	1.000000	1.09720e-11	1.00000
rad37	1.65882e-12	1.000000	1.66153e-12	1.00000
rad60syn	1.63164e-12	1.000000	1.63431e-12	1.00000
rad60anti	5.39020e-13	1.000000	5.39900e-13	1.00000
rad33	3.75151e-13	1.000000	3.75764e-13	1.00000
rad23	1.69323e-13	1.000000	1.69600e-13	1.00000
rad27	1.10130e-13	1.000000	1.10310e-13	1.00000
rad14	8.33640e-14	1.000000	8.35002e-14	1.00000
rad25	7.61481e-14	1.000000	7.62726e-14	1.00000
rad5	4.66984e-14	1.000000	4.67747e-14	1.00000
PAH3+H	1.51218e-14	1.000000	1.51465e-14	1.00000
rad20	1.19214e-14	1.000000	1.19409e-14	1.00000
rad21	7.83518e-15	1.000000	7.84799e-15	1.00000
rad59	4.36097e-15	1.000000	4.36810e-15	1.00000
rad45	1.33995e-15	1.000000	1.34214e-15	1.00000
rad50	3.17580e-16	1.000000	3.18098e-16	1.00000
rad19syn	1.00981e-16	1.000000	1.01146e-16	1.00000
rad36	8.86585e-17	1.000000	8.88034e-17	1.00000
rad18	4.56034e-17	1.000000	4.56779e-17	1.00000
rad22	3.25223e-17	1.000000	3.25755e-17	1.00000
rad31	1.34828e-17	1.000000	1.35049e-17	1.00000
rad54	3.50733e-18	1.000000	3.51306e-18	1.00000
PAH10+CH3	2.26054e-18	1.000000	2.26424e-18	1.00000
rad43	5.14250e-19	1.000000	5.15091e-19	1.00000
rad52	2.26216e-19	1.000000	2.26585e-19	1.00000
rad62	1.76283e-19	1.000000	1.76571e-19	1.00000
PhcycC3H3_A+H	2.37728e-20	1.000000	2.38117e-20	1.00000
rad51	1.42633e-20	1.000000	1.42866e-20	1.00000
rad70	1.35841e-20	1.000000	1.36063e-20	1.00000
rad55	5.98314e-21	1.000000	5.99292e-21	1.00000
rad24	4.15656e-21	1.000000	4.16336e-21	1.00000
rad58	1.57034e-21	1.000000	1.57290e-21	1.00000
PAH1+H	7.93423e-22	1.000000	7.94720e-22	1.00000
rad65	1.69845e-22	1.000000	1.70122e-22	1.00000
rad34	5.35968e-23	1.000000	5.36844e-23	1.00000
rad42	1.01334e-24	1.000000	1.01499e-24	1.00000
rad41	3.07209e-25	1.000000	3.07711e-25	1.00000
rad47	1.45559e-32	1.000000	1.45797e-32	1.00000

0.100000000E-03 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.60269e-20 (1.00)	3.57081e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.990968	0.990968	0.999815	0.999815
Benzyl+C2H2	0.00884818	0.999816	0.00000	0.999815
rad6	0.000160159	0.999976	0.000161589	0.999977
PhCCH+CH3	1.23306e-05	0.999989	1.24407e-05	0.999989
PhCHCCH2+H	5.93600e-06	0.999995	5.98900e-06	0.999995
PhCCCH3+H	3.90031e-06	0.999999	3.93513e-06	0.999999
Ph+MeAc	5.34657e-07	0.999999	5.39430e-07	0.999999
rad30	4.02120e-07	0.999999	4.05709e-07	1.000000
PAH9+H	6.80787e-08	1.000000	6.86864e-08	1.000000
rad2	6.52840e-08	1.000000	6.58668e-08	1.00000
Ph+Allene	6.39801e-08	1.000000	6.45513e-08	1.00000
rad28	5.34718e-08	1.000000	5.39491e-08	1.00000
PAH7+H	4.50080e-08	1.000000	4.54098e-08	1.00000
rad35	2.73743e-08	1.000000	2.76187e-08	1.00000
rad38	1.63210e-08	1.000000	1.64667e-08	1.00000
rad7	1.49910e-08	1.000000	1.51248e-08	1.00000
rad26	9.75634e-09	1.000000	9.84343e-09	1.00000
rad39	8.59710e-09	1.000000	8.67385e-09	1.00000
rad1	6.07557e-09	1.000000	6.12981e-09	1.00000
PhCH2CCH+H	4.56293e-09	1.000000	4.60366e-09	1.00000
rad10	4.21058e-09	1.000000	4.24816e-09	1.00000
rad11	3.69021e-09	1.000000	3.72315e-09	1.00000
rad19anti	8.44326e-10	1.000000	8.51863e-10	1.00000
rad3	4.89847e-10	1.000000	4.94220e-10	1.00000
rad23	4.44251e-10	1.000000	4.48217e-10	1.00000
rad46	3.06010e-10	1.000000	3.08742e-10	1.00000
rad4	2.57972e-10	1.000000	2.60275e-10	1.00000
rad37	1.38286e-10	1.000000	1.39520e-10	1.00000
rad60syn	9.47275e-11	1.000000	9.55731e-11	1.00000
rad13	9.14697e-11	1.000000	9.22863e-11	1.00000

rad60anti	3.76555e-11	1.000000	3.79916e-11	1.00000
rad45	2.62620e-11	1.000000	2.64965e-11	1.00000
PAH3+H	6.50520e-12	1.000000	6.56327e-12	1.00000
rad59	1.36005e-12	1.000000	1.37219e-12	1.00000
rad36	1.01088e-12	1.000000	1.01991e-12	1.00000
rad20	4.10415e-13	1.000000	4.14079e-13	1.00000
rad21	2.87014e-13	1.000000	2.89577e-13	1.00000
rad33	2.40162e-13	1.000000	2.42306e-13	1.00000
rad50	1.36002e-13	1.000000	1.37216e-13	1.00000
rad19syn	1.28747e-13	1.000000	1.29897e-13	1.00000
rad27	6.97948e-14	1.000000	7.04179e-14	1.00000
rad14	6.57816e-14	1.000000	6.63689e-14	1.00000
rad25	5.98050e-14	1.000000	6.03389e-14	1.00000
rad22	4.08068e-14	1.000000	4.11711e-14	1.00000
rad54	8.91617e-15	1.000000	8.99577e-15	1.00000
rad18	7.78999e-15	1.000000	7.85953e-15	1.00000
PAH10+CH3	4.84720e-15	1.000000	4.89048e-15	1.00000
rad67	1.67328e-15	1.000000	1.68822e-15	1.00000
rad43	8.69917e-16	1.000000	8.77683e-16	1.00000
rad62	4.86689e-16	1.000000	4.91034e-16	1.00000
rad52	4.03425e-16	1.000000	4.07027e-16	1.00000
PhcycC3H3_A+H	3.21892e-16	1.000000	3.24765e-16	1.00000
rad70	1.20387e-16	1.000000	1.21461e-16	1.00000
rad51	7.62446e-17	1.000000	7.69253e-17	1.00000
rad31	5.51195e-17	1.000000	5.56116e-17	1.00000
rad55	5.04280e-17	1.000000	5.08782e-17	1.00000
PAH1+H	2.44010e-17	1.000000	2.46188e-17	1.00000
rad58	1.79710e-17	1.000000	1.81314e-17	1.00000
rad24	5.56698e-18	1.000000	5.61668e-18	1.00000
rad34	2.03118e-18	1.000000	2.04931e-18	1.00000
rad9	1.54963e-18	1.000000	1.56346e-18	1.00000
rad65	1.53460e-18	1.000000	1.54830e-18	1.00000
rad42	7.25819e-20	1.000000	7.32299e-20	1.00000
rad41	2.24858e-20	1.000000	2.26866e-20	1.00000
rad53	5.65621e-21	1.000000	5.70670e-21	1.00000
rad64	1.81667e-21	1.000000	1.83289e-21	1.00000
rad15	9.78220e-22	1.000000	9.86953e-22	1.00000
rad56	6.63505e-23	1.000000	6.69428e-23	1.00000
rad68syn	8.56534e-24	1.000000	8.64181e-24	1.00000
rad68anti	6.18500e-24	1.000000	6.24022e-24	1.00000
rad61	4.57094e-24	1.000000	4.61175e-24	1.00000
rad5	1.90917e-24	1.000000	1.92621e-24	1.00000
rad73	1.04343e-24	1.000000	1.05274e-24	1.00000
rad71	2.08948e-25	1.000000	2.10813e-25	1.00000
rad12	1.82149e-25	1.000000	1.83775e-25	1.00000
rad40syn	5.07802e-26	1.000000	5.12336e-26	1.00000
PAH8+H	3.09567e-26	1.000000	3.12330e-26	1.00000
rad40anti	1.25681e-26	1.000000	1.26803e-26	1.00000
rad72	1.07877e-28	1.000000	1.08840e-28	1.00000
rad47	5.32514e-29	1.000000	5.37268e-29	1.00000
rad8	1.00861e-38	1.000000	1.01761e-38	1.00000

0.100000000E-03 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.18787e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.968723	0.968723	0.999780	0.999780
Benzyl+C2H2	0.0310633	0.999786	0.00000	0.999780
PhCCH+CH3	9.35475e-05	0.999880	9.65465e-05	0.999877
rad6	4.10880e-05	0.999921	4.24053e-05	0.999919
PhCHCCH2+H	4.00316e-05	0.999961	4.13150e-05	0.999960
PhCCCH3+H	2.54284e-05	0.999986	2.62436e-05	0.999987
Ph+MeAc	7.07351e-06	0.999993	7.30028e-06	0.999994
rad30	2.19668e-06	0.999996	2.26710e-06	0.999996
Ph+Allene	2.05085e-06	0.999998	2.11660e-06	0.999998
PAH7+H	6.80622e-07	0.999998	7.02442e-07	0.999999
PAH9+H	4.84045e-07	0.999999	4.99563e-07	0.999999
PhCH2CCH+H	2.44798e-07	0.999999	2.52646e-07	1.000000
rad35	1.65639e-07	0.999999	1.70949e-07	1.000000
rad39	1.51500e-07	0.999999	1.56357e-07	1.000000
rad38	1.34449e-07	1.000000	1.38760e-07	1.000000
rad2	2.17484e-08	1.000000	2.24456e-08	1.000000
rad28	2.06771e-08	1.000000	2.13399e-08	1.000000
rad19anti	1.41557e-08	1.000000	1.46096e-08	1.000000
rad46	5.06650e-09	1.000000	5.22892e-09	1.000000
rad7	4.13900e-09	1.000000	4.27170e-09	1.000000

rad23	3.73752e-09	1.000000	3.85734e-09	1.00000
rad26	3.53363e-09	1.000000	3.64691e-09	1.00000
rad37	2.87004e-09	1.000000	2.96205e-09	1.00000
rad1	2.59686e-09	1.000000	2.68012e-09	1.00000
rad60syn	2.17485e-09	1.000000	2.24457e-09	1.00000
rad10	1.23748e-09	1.000000	1.27715e-09	1.00000
rad11	1.05895e-09	1.000000	1.09289e-09	1.00000
rad60anti	9.78347e-10	1.000000	1.00971e-09	1.00000
PAH3+H	4.98713e-10	1.000000	5.14701e-10	1.00000
rad45	4.92630e-10	1.000000	5.08424e-10	1.00000
rad3	2.02057e-10	1.000000	2.08535e-10	1.00000
rad4	1.13798e-10	1.000000	1.17447e-10	1.00000
rad59	9.55001e-11	1.000000	9.85618e-11	1.00000
rad13	2.79501e-11	1.000000	2.88462e-11	1.00000
rad36	2.58030e-11	1.000000	2.66302e-11	1.00000
rad19syn	2.21129e-11	1.000000	2.28218e-11	1.00000
rad50	1.38320e-11	1.000000	1.42754e-11	1.00000
rad54	2.40097e-12	1.000000	2.47794e-12	1.00000
PAH10+CH3	9.71321e-13	1.000000	1.00246e-12	1.00000
rad20	3.28052e-13	1.000000	3.38569e-13	1.00000
rad21	2.58487e-13	1.000000	2.66774e-13	1.00000
rad67	2.37510e-13	1.000000	2.45124e-13	1.00000
PhcycC3H3_A+H	2.03153e-13	1.000000	2.09666e-13	1.00000
rad43	1.48549e-13	1.000000	1.53311e-13	1.00000
rad22	1.39527e-13	1.000000	1.44000e-13	1.00000
rad62	1.23085e-13	1.000000	1.27031e-13	1.00000
rad52	1.00575e-13	1.000000	1.03800e-13	1.00000
rad33	8.67927e-14	1.000000	8.95752e-14	1.00000
rad70	6.56874e-14	1.000000	6.77933e-14	1.00000
rad51	3.91281e-14	1.000000	4.03825e-14	1.00000
rad55	2.77315e-14	1.000000	2.86206e-14	1.00000
rad14	2.71143e-14	1.000000	2.79836e-14	1.00000
rad25	2.50856e-14	1.000000	2.58899e-14	1.00000
rad27	2.48750e-14	1.000000	2.56725e-14	1.00000
PAH1+H	2.29061e-14	1.000000	2.36405e-14	1.00000
rad58	1.24944e-14	1.000000	1.28950e-14	1.00000
rad18	4.12182e-15	1.000000	4.25397e-15	1.00000
rad34	2.11820e-15	1.000000	2.18611e-15	1.00000
rad65	1.00123e-15	1.000000	1.03333e-15	1.00000
rad31	1.27465e-16	1.000000	1.31552e-16	1.00000
rad42	8.25859e-17	1.000000	8.52335e-17	1.00000
rad24	4.13117e-17	1.000000	4.26361e-17	1.00000
rad9	2.87687e-17	1.000000	2.96910e-17	1.00000
rad41	2.37184e-17	1.000000	2.44788e-17	1.00000
rad53	2.02423e-17	1.000000	2.08913e-17	1.00000
rad64	7.97509e-18	1.000000	8.23077e-18	1.00000
rad73	1.33177e-18	1.000000	1.37446e-18	1.00000
rad71	1.04580e-18	1.000000	1.07933e-18	1.00000
rad56	7.53461e-19	1.000000	7.77617e-19	1.00000
rad68syn	1.06850e-19	1.000000	1.10275e-19	1.00000
rad68anti	7.56045e-20	1.000000	7.80283e-20	1.00000
rad61	4.28409e-20	1.000000	4.42144e-20	1.00000
rad15	1.95550e-20	1.000000	2.01819e-20	1.00000
rad72	1.17722e-20	1.000000	1.21496e-20	1.00000
PAH8+H	1.14135e-20	1.000000	1.17794e-20	1.00000
rad40syn	3.24999e-21	1.000000	3.35418e-21	1.00000
rad40anti	1.36273e-21	1.000000	1.40642e-21	1.00000
rad12	5.47262e-23	1.000000	5.64807e-23	1.00000
rad5	2.14149e-23	1.000000	2.21015e-23	1.00000
rad47	2.95914e-26	1.000000	3.05400e-26	1.00000
rad8	6.37694e-35	1.000000	6.58138e-35	1.00000

0.100000000E-03 Pa, 600.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.36947e-17 (1.00)	1.26193e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.920842	0.920842	0.999317	0.999317
Benzyl+C2H2	0.0785282	0.999370	0.000000	0.999317
PhCCH+CH3	0.000333004	0.999703	0.000361382	0.999678
PhCHCCH2+H	0.000137002	0.999840	0.000148677	0.999827
PhCCCH3+H	7.53921e-05	0.999916	8.18170e-05	0.999909
Ph+MeAc	3.38752e-05	0.999949	3.67620e-05	0.999946
Ph+Allene	2.17075e-05	0.999971	2.35574e-05	0.999969
rad6	7.89397e-06	0.999979	8.56670e-06	0.999978
rad30	7.59255e-06	0.999987	8.23960e-06	0.999986
PAH7+H	4.39133e-06	0.999991	4.76556e-06	0.999991

PhCH2CCH+H	3.66167e-06	0.999995	3.97372e-06	0.999995
PAH9+H	2.21753e-06	0.999997	2.40650e-06	0.999997
rad39	1.04271e-06	0.999998	1.13157e-06	0.999998
rad38	6.77247e-07	0.999999	7.34962e-07	0.999999
rad35	6.69672e-07	0.999999	7.26742e-07	1.000000
rad19anti	1.16219e-07	0.999999	1.26123e-07	1.000000
rad46	4.03942e-08	0.999999	4.38366e-08	1.000000
rad60syn	1.92850e-08	1.000000	2.09285e-08	1.000000
rad37	1.80193e-08	1.000000	1.95549e-08	1.000000
PAH3+H	9.89114e-09	1.000000	1.07341e-08	1.000000
rad60anti	9.33104e-09	1.000000	1.01262e-08	1.000000
rad23	7.83249e-09	1.000000	8.49998e-09	1.000000
rad2	7.69247e-09	1.000000	8.34803e-09	1.000000
rad28	5.16492e-09	1.000000	5.60508e-09	1.000000
rad59	1.75178e-09	1.000000	1.90106e-09	1.000000
rad45	1.21333e-09	1.000000	1.31673e-09	1.000000
rad1	1.12824e-09	1.000000	1.22439e-09	1.000000
rad7	8.80642e-10	1.000000	9.55691e-10	1.000000
rad26	8.58502e-10	1.000000	9.31664e-10	1.000000
rad19syn	6.85603e-10	1.000000	7.44031e-10	1.000000
rad50	3.62404e-10	1.000000	3.93288e-10	1.000000
rad10	2.98278e-10	1.000000	3.23697e-10	1.000000
rad11	2.39455e-10	1.000000	2.59861e-10	1.000000
rad54	1.00689e-10	1.000000	1.09270e-10	1.000000
rad36	9.68454e-11	1.000000	1.05099e-10	1.000000
rad3	7.81787e-11	1.000000	8.48411e-11	1.000000
rad4	4.75672e-11	1.000000	5.16209e-11	1.000000
PAH10+CH3	2.92596e-11	1.000000	3.17531e-11	1.000000
PhcycC3H3_A+H	1.50079e-11	1.000000	1.62869e-11	1.000000
rad67	9.04672e-12	1.000000	9.81769e-12	1.000000
rad13	7.15999e-12	1.000000	7.77017e-12	1.000000
rad52	4.78753e-12	1.000000	5.19553e-12	1.000000
rad62	4.45026e-12	1.000000	4.82951e-12	1.000000
rad70	4.33655e-12	1.000000	4.70611e-12	1.000000
rad43	3.80809e-12	1.000000	4.13262e-12	1.000000
rad51	3.28949e-12	1.000000	3.56982e-12	1.000000
PAH1+H	2.15563e-12	1.000000	2.33934e-12	1.000000
rad55	1.80964e-12	1.000000	1.96385e-12	1.000000
rad58	1.01192e-12	1.000000	1.09816e-12	1.000000
rad20	4.39634e-13	1.000000	4.77100e-13	1.000000
rad21	3.92775e-13	1.000000	4.26247e-13	1.000000
rad22	2.33455e-13	1.000000	2.53350e-13	1.000000
rad34	2.14138e-13	1.000000	2.32387e-13	1.000000
rad65	9.39032e-14	1.000000	1.01906e-13	1.000000
rad33	3.10906e-14	1.000000	3.37401e-14	1.000000
rad71	9.74234e-15	1.000000	1.05726e-14	1.000000
rad14	8.65915e-15	1.000000	9.39709e-15	1.000000
rad25	8.39249e-15	1.000000	9.10770e-15	1.000000
rad42	8.07518e-15	1.000000	8.76335e-15	1.000000
rad27	7.71820e-15	1.000000	8.37595e-15	1.000000
rad73	7.66719e-15	1.000000	8.32059e-15	1.000000
rad53	4.59180e-15	1.000000	4.98311e-15	1.000000
rad18	3.13310e-15	1.000000	3.40010e-15	1.000000
rad64	2.18347e-15	1.000000	2.36955e-15	1.000000
rad41	2.08696e-15	1.000000	2.26482e-15	1.000000
rad9	8.38553e-16	1.000000	9.10015e-16	1.000000
rad24	5.16816e-16	1.000000	5.60859e-16	1.000000
rad56	3.78686e-16	1.000000	4.10958e-16	1.000000
rad72	2.77174e-16	1.000000	3.00795e-16	1.000000
rad31	1.60818e-16	1.000000	1.74523e-16	1.000000
PAH8+H	1.13411e-16	1.000000	1.23076e-16	1.000000
rad68syn	8.38610e-17	1.000000	9.10077e-17	1.000000
rad61	6.64547e-17	1.000000	7.21180e-17	1.000000
rad68anti	5.69818e-17	1.000000	6.18378e-17	1.000000
rad40syn	1.53513e-17	1.000000	1.66595e-17	1.000000
rad40anti	9.05502e-18	1.000000	9.82670e-18	1.000000
rad15	5.55022e-19	1.000000	6.02322e-19	1.000000
rad12	2.10712e-20	1.000000	2.28669e-20	1.000000
rad5	8.12613e-23	1.000000	8.81864e-23	1.000000
rad47	2.28976e-24	1.000000	2.48489e-24	1.000000
rad8	9.49358e-31	1.000000	1.03026e-30	1.000000

0.100000000E-03 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	6.78335e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.844044	0.844044	0.998241	0.998241
Benzyl+C2H2	0.154470	0.998514	0.00000	0.998241
PhCCH+CH3	0.000746409	0.999260	0.000882770	0.999124
PhCHCCH2+H	0.000320576	0.999581	0.000379142	0.999503
PhCCCH3+H	0.000136737	0.999718	0.000161717	0.999665
Ph+Allene	0.000115963	0.999834	0.000137148	0.999802
Ph+MeAc	8.86619e-05	0.999922	0.000104860	0.999907
PhCH2CCH+H	2.52612e-05	0.999948	2.98762e-05	0.999937
rad30	1.89338e-05	0.999967	2.23928e-05	0.999959
PAH7+H	1.64061e-05	0.999983	1.94034e-05	0.999978
PAH9+H	7.24095e-06	0.999990	8.56379e-06	0.999987
rad39	3.97932e-06	0.999994	4.70630e-06	0.999992
rad38	2.36447e-06	0.999997	2.79643e-06	0.999994
rad35	1.97990e-06	0.999999	2.34160e-06	0.999997
rad6	1.33322e-06	1.000000	1.57678e-06	0.999998
rad19anti	5.91545e-07	1.000000	6.99614e-07	0.999999
rad46	1.96016e-07	1.000000	2.31826e-07	0.999999
rad60syn	9.47748e-08	1.000000	1.12089e-07	0.999999
PAH3+H	8.73479e-08	1.000000	1.03305e-07	0.999999
rad37	5.67310e-08	1.000000	6.70951e-08	1.000000
rad60anti	4.82184e-08	1.000000	5.70274e-08	1.000000
rad59	1.44141e-08	1.000000	1.70474e-08	1.000000
rad19syn	7.75629e-09	1.000000	9.17329e-09	1.000000
rad23	5.48180e-09	1.000000	6.48327e-09	1.000000
rad50	4.11964e-09	1.000000	4.87226e-09	1.000000
rad2	2.32247e-09	1.000000	2.74676e-09	1.000000
rad54	1.41344e-09	1.000000	1.67166e-09	1.000000
rad28	1.06081e-09	1.000000	1.25461e-09	1.000000
rad45	1.01411e-09	1.000000	1.19938e-09	1.000000
rad1	3.74200e-10	1.000000	4.42563e-10	1.000000
PhcycC3H3_A+H	3.16612e-10	1.000000	3.74454e-10	1.000000
PAH10+CH3	2.97990e-10	1.000000	3.52429e-10	1.000000
rad26	1.76402e-10	1.000000	2.08628e-10	1.000000
rad7	1.72148e-10	1.000000	2.03598e-10	1.000000
rad67	1.46412e-10	1.000000	1.73160e-10	1.000000
rad36	8.52869e-11	1.000000	1.00868e-10	1.000000
rad70	8.37036e-11	1.000000	9.89954e-11	1.000000
rad52	8.09889e-11	1.000000	9.57848e-11	1.000000
rad51	7.51472e-11	1.000000	8.88758e-11	1.000000
rad10	6.83040e-11	1.000000	8.07824e-11	1.000000
PAH1+H	5.24916e-11	1.000000	6.20813e-11	1.000000
rad62	5.24408e-11	1.000000	6.20211e-11	1.000000
rad11	5.16663e-11	1.000000	6.11051e-11	1.000000
rad55	3.42242e-11	1.000000	4.04766e-11	1.000000
rad43	3.27816e-11	1.000000	3.87705e-11	1.000000
rad58	2.36841e-11	1.000000	2.80110e-11	1.000000
rad3	2.34250e-11	1.000000	2.77045e-11	1.000000
rad4	1.50301e-11	1.000000	1.77759e-11	1.000000
rad34	5.59036e-12	1.000000	6.61165e-12	1.000000
rad65	2.25914e-12	1.000000	2.67186e-12	1.000000
rad13	1.98665e-12	1.000000	2.34959e-12	1.000000
rad20	9.46466e-13	1.000000	1.11938e-12	1.000000
rad21	9.16388e-13	1.000000	1.08380e-12	1.000000
rad71	2.99218e-13	1.000000	3.53882e-13	1.000000
rad73	2.19531e-13	1.000000	2.59637e-13	1.000000
rad53	2.09513e-13	1.000000	2.47789e-13	1.000000
rad42	1.92949e-13	1.000000	2.28199e-13	1.000000
rad22	1.62660e-13	1.000000	1.92376e-13	1.000000
rad64	9.73544e-14	1.000000	1.15140e-13	1.000000
rad41	4.37457e-14	1.000000	5.17376e-14	1.000000
rad56	2.74591e-14	1.000000	3.24756e-14	1.000000
rad9	2.47901e-14	1.000000	2.93190e-14	1.000000
rad33	1.75181e-14	1.000000	2.07185e-14	1.000000
rad72	9.66732e-15	1.000000	1.14334e-14	1.000000
rad24	5.53583e-15	1.000000	6.54717e-15	1.000000
rad68syn	4.96790e-15	1.000000	5.87548e-15	1.000000
PAH8+H	4.56888e-15	1.000000	5.40356e-15	1.000000
rad18	3.76233e-15	1.000000	4.44967e-15	1.000000
rad68anti	3.38944e-15	1.000000	4.00866e-15	1.000000
rad25	3.23286e-15	1.000000	3.82347e-15	1.000000
rad14	2.98046e-15	1.000000	3.52496e-15	1.000000
rad27	2.88934e-15	1.000000	3.41719e-15	1.000000
rad61	2.38887e-15	1.000000	2.82529e-15	1.000000
rad40syn	7.42590e-16	1.000000	8.78253e-16	1.000000
rad40anti	4.55377e-16	1.000000	5.38569e-16	1.000000
rad31	1.07528e-16	1.000000	1.27172e-16	1.000000
rad15	1.13673e-17	1.000000	1.34440e-17	1.000000
rad12	2.79308e-18	1.000000	3.30334e-18	1.000000
rad5	1.91360e-22	1.000000	2.26320e-22	1.000000
rad47	4.86396e-23	1.000000	5.75255e-23	1.000000

rad8 | 1.57095e-26 1.00000 | 1.85795e-26 1.00000

0.100000000E-03 Pa, 800.000000 K

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

Total | 3.12228e-16 (1.00) | 2.33587e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745326	0.745326	0.996252	0.996252
Benzyl+C2H2	0.251870	0.997196	0.00000	0.996252
PhCCH+CH3	0.00124161	0.998438	0.00165962	0.997912
PhCHCCH2+H	0.000603917	0.999042	0.000807235	0.998719
Ph+Allene	0.000391607	0.999433	0.000523448	0.999242
PhCCCH3+H	0.000180410	0.999614	0.000241148	0.999483
Ph+MeAc	0.000158703	0.999772	0.000212133	0.999696
PhCH2CCH+H	0.000104747	0.999877	0.000140012	0.999836
PAH7+H	4.20043e-05	0.999919	5.61457e-05	0.999892
rad30	3.73181e-05	0.999956	4.98819e-05	0.999942
PAH9+H	1.83033e-05	0.999975	2.44654e-05	0.999966
rad39	1.01670e-05	0.999985	1.35899e-05	0.999980
rad38	6.28665e-06	0.999991	8.40316e-06	0.999988
rad35	4.61800e-06	0.999996	6.17273e-06	0.999994
rad19anti	2.13374e-06	0.999998	2.85210e-06	0.999997
rad46	6.69514e-07	0.999998	8.94916e-07	0.999998
PAH3+H	4.55929e-07	0.999999	6.09424e-07	0.999999
rad60syn	3.14534e-07	0.999999	4.20427e-07	0.999999
rad6	2.30155e-07	0.999999	3.07641e-07	0.999999
rad60anti	1.66149e-07	1.000000	2.22085e-07	1.000000
rad37	1.16540e-07	1.000000	1.55775e-07	1.000000
rad59	7.05291e-08	1.000000	9.42739e-08	1.000000
rad19syn	4.57471e-08	1.000000	6.11486e-08	1.000000
rad50	2.68172e-08	1.000000	3.58456e-08	1.000000
rad54	9.79649e-09	1.000000	1.30946e-08	1.000000
PhcycC3H3_A+H	2.99429e-09	1.000000	4.00236e-09	1.000000
rad23	2.28866e-09	1.000000	3.05918e-09	1.000000
PAH10+CH3	1.56441e-09	1.000000	2.09110e-09	1.000000
rad67	1.31139e-09	1.000000	1.75289e-09	1.000000
rad51	7.64714e-10	1.000000	1.02217e-09	1.000000
rad70	7.37683e-10	1.000000	9.86036e-10	1.000000
rad52	6.94307e-10	1.000000	9.28057e-10	1.000000
rad2	5.74188e-10	1.000000	7.67498e-10	1.000000
rad45	5.41570e-10	1.000000	7.23899e-10	1.000000
PAH1+H	5.39342e-10	1.000000	7.20920e-10	1.000000
rad62	3.04717e-10	1.000000	4.07304e-10	1.000000
rad55	2.93961e-10	1.000000	3.92928e-10	1.000000
rad58	2.53337e-10	1.000000	3.38627e-10	1.000000
rad28	2.15107e-10	1.000000	2.87527e-10	1.000000
rad43	1.42471e-10	1.000000	1.90436e-10	1.000000
rad1	9.05664e-11	1.000000	1.21057e-10	1.000000
rad34	6.18599e-11	1.000000	8.26860e-11	1.000000
rad36	4.48289e-11	1.000000	5.99214e-11	1.000000
rad7	3.69486e-11	1.000000	4.93879e-11	1.000000
rad26	3.66389e-11	1.000000	4.89740e-11	1.000000
rad65	2.39537e-11	1.000000	3.20180e-11	1.000000
rad10	1.53992e-11	1.000000	2.05836e-11	1.000000
rad11	1.32233e-11	1.000000	1.76751e-11	1.000000
rad3	6.03979e-12	1.000000	8.07318e-12	1.000000
rad4	3.95913e-12	1.000000	5.29204e-12	1.000000
rad53	3.50036e-12	1.000000	4.67881e-12	1.000000
rad20	2.64437e-12	1.000000	3.53464e-12	1.000000
rad21	2.51426e-12	1.000000	3.36072e-12	1.000000
rad42	1.90392e-12	1.000000	2.54491e-12	1.000000
rad64	1.53003e-12	1.000000	2.04514e-12	1.000000
rad71	9.43029e-13	1.000000	1.26052e-12	1.000000
rad13	8.71461e-13	1.000000	1.16485e-12	1.000000
rad73	7.15380e-13	1.000000	9.56224e-13	1.000000
rad56	6.65905e-13	1.000000	8.90093e-13	1.000000
rad9	3.65473e-13	1.000000	4.88515e-13	1.000000
rad41	3.56518e-13	1.000000	4.76546e-13	1.000000
rad68syn	1.05371e-13	1.000000	1.40846e-13	1.000000
rad22	7.41312e-14	1.000000	9.90887e-14	1.000000
rad68anti	7.19215e-14	1.000000	9.61351e-14	1.000000
PAH8+H	3.36864e-14	1.000000	4.50275e-14	1.000000
rad72	3.10992e-14	1.000000	4.15692e-14	1.000000
rad24	2.87055e-14	1.000000	3.83696e-14	1.000000
rad33	2.23252e-14	1.000000	2.98414e-14	1.000000
rad61	1.69996e-14	1.000000	2.27229e-14	1.000000
rad40syn	9.11735e-15	1.000000	1.21869e-14	1.000000

rad18	7.62308e-15	1.000000	1.01895e-14	1.000000
rad40anti	4.16909e-15	1.000000	5.57268e-15	1.000000
rad25	2.05596e-15	1.000000	2.74814e-15	1.000000
rad27	1.71993e-15	1.000000	2.29897e-15	1.000000
rad14	1.48429e-15	1.000000	1.98400e-15	1.000000
rad15	1.03661e-16	1.000000	1.38560e-16	1.000000
rad12	7.13648e-17	1.000000	9.53910e-17	1.000000
rad31	5.78742e-17	1.000000	7.73585e-17	1.000000
rad47	4.95037e-22	1.000000	6.61699e-22	1.000000
rad5	4.07506e-22	1.000000	5.44700e-22	1.000000
rad8	8.26800e-23	1.000000	1.10516e-22	1.000000

0.100000000E-03 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.21769e-16 (1.00)	5.91948e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.637601	0.637601	0.992859	0.992859
Benzyl+C2H2	0.357813	0.995414	0.000000	0.992859
PhCCH+CH3	0.00168533	0.997099	0.00262437	0.995483
PhCHCCH2+H	0.000988071	0.998087	0.00153860	0.997022
Ph+Allene	0.000956826	0.999044	0.00148995	0.998512
PhCH2CCH+H	0.000305642	0.999350	0.000475939	0.998988
Ph+MeAc	0.000221701	0.999572	0.000345227	0.999333
PhCCCH3+H	0.000192582	0.999764	0.000299884	0.999633
PAH7+H	8.18814e-05	0.999846	0.000127504	0.999760
rad30	6.20698e-05	0.999908	9.66537e-05	0.999857
PAH9+H	3.81798e-05	0.999946	5.94527e-05	0.999917
rad39	1.95088e-05	0.999966	3.03787e-05	0.999947
rad38	1.36531e-05	0.999979	2.12603e-05	0.999968
rad35	9.01882e-06	0.999988	1.40439e-05	0.999982
rad19anti	5.95508e-06	0.999994	9.27312e-06	0.999992
rad46	1.77417e-06	0.999996	2.76270e-06	0.999994
PAH3+H	1.66000e-06	0.999998	2.58492e-06	0.999997
rad60syn	7.95279e-07	0.999999	1.23839e-06	0.999998
rad60anti	4.32684e-07	0.999999	6.73766e-07	0.999999
rad59	2.41974e-07	0.999999	3.76797e-07	0.999999
rad37	1.83192e-07	1.000000	2.85263e-07	0.999999
rad19syn	1.72530e-07	1.000000	2.68661e-07	1.000000
rad50	1.19237e-07	1.000000	1.85673e-07	1.000000
rad54	4.18728e-08	1.000000	6.52035e-08	1.000000
rad6	3.97964e-08	1.000000	6.19701e-08	1.000000
PhcycC3H3_A+H	1.64007e-08	1.000000	2.55389e-08	1.000000
rad67	7.68880e-09	1.000000	1.19728e-08	1.000000
PAH10+CH3	5.46735e-09	1.000000	8.51364e-09	1.000000
rad51	5.05175e-09	1.000000	7.86648e-09	1.000000
rad52	3.85254e-09	1.000000	5.99909e-09	1.000000
rad70	3.82645e-09	1.000000	5.95847e-09	1.000000
PAH1+H	3.10912e-09	1.000000	4.84145e-09	1.000000
rad58	1.60259e-09	1.000000	2.49552e-09	1.000000
rad55	1.47819e-09	1.000000	2.30180e-09	1.000000
rad62	1.10200e-09	1.000000	1.71602e-09	1.000000
rad23	8.88873e-10	1.000000	1.38413e-09	1.000000
rad43	3.94288e-10	1.000000	6.13977e-10	1.000000
rad34	3.84610e-10	1.000000	5.98906e-10	1.000000
rad45	2.50982e-10	1.000000	3.90825e-10	1.000000
rad65	1.60941e-10	1.000000	2.50615e-10	1.000000
rad2	1.21649e-10	1.000000	1.89429e-10	1.000000
rad28	4.34594e-11	1.000000	6.76740e-11	1.000000
rad53	2.97685e-11	1.000000	4.63549e-11	1.000000
rad36	2.18166e-11	1.000000	3.39724e-11	1.000000
rad1	2.04281e-11	1.000000	3.18101e-11	1.000000
rad64	1.24945e-11	1.000000	1.94562e-11	1.000000
rad42	1.04415e-11	1.000000	1.62592e-11	1.000000
rad7	9.05055e-12	1.000000	1.40933e-11	1.000000
rad26	7.78690e-12	1.000000	1.21256e-11	1.000000
rad56	7.66990e-12	1.000000	1.19434e-11	1.000000
rad20	6.04424e-12	1.000000	9.41196e-12	1.000000
rad21	5.11614e-12	1.000000	7.96674e-12	1.000000
rad11	4.73382e-12	1.000000	7.37140e-12	1.000000
rad10	3.70212e-12	1.000000	5.76487e-12	1.000000
rad73	1.71183e-12	1.000000	2.66563e-12	1.000000
rad41	1.63696e-12	1.000000	2.54903e-12	1.000000
rad3	1.54681e-12	1.000000	2.40867e-12	1.000000
rad9	1.51549e-12	1.000000	2.35989e-12	1.000000
rad71	1.34930e-12	1.000000	2.10111e-12	1.000000
rad68syn	1.23859e-12	1.000000	1.92871e-12	1.000000

rad4	1.07339e-12	1.000000	1.67146e-12	1.00000
rad13	8.42999e-13	1.000000	1.31270e-12	1.00000
rad68anti	8.39620e-13	1.000000	1.30744e-12	1.00000
PAH8+H	3.85349e-13	1.000000	6.00057e-13	1.00000
rad61	1.21589e-13	1.000000	1.89335e-13	1.00000
rad40syn	1.16093e-13	1.000000	1.80778e-13	1.00000
rad24	5.74732e-14	1.000000	8.94961e-14	1.00000
rad40anti	4.71900e-14	1.000000	7.34833e-14	1.00000
rad33	3.71301e-14	1.000000	5.78182e-14	1.00000
rad72	3.28436e-14	1.000000	5.11433e-14	1.00000
rad22	3.19298e-14	1.000000	4.97204e-14	1.00000
rad18	2.21852e-14	1.000000	3.45464e-14	1.00000
rad25	2.21446e-15	1.000000	3.44832e-15	1.00000
rad27	1.39159e-15	1.000000	2.16696e-15	1.00000
rad14	1.06230e-15	1.000000	1.65419e-15	1.00000
rad12	3.93775e-16	1.000000	6.13178e-16	1.00000
rad15	3.33722e-16	1.000000	5.19664e-16	1.00000
rad31	3.17855e-17	1.000000	4.94958e-17	1.00000
rad8	5.05693e-20	1.000000	7.87455e-20	1.00000
rad47	3.25379e-21	1.000000	5.06673e-21	1.00000
rad5	8.58588e-22	1.000000	1.33698e-21	1.00000

0.100000000E-03 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.23691e-15 (1.00)	1.20781e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.533143	0.533143	0.987405	0.987405
Benzyl+C2H2	0.460056	0.993199	0.00000	0.987405
PhCCH+CH3	0.00197845	0.995177	0.00366418	0.991069
Ph+Allene	0.00184724	0.997025	0.00342117	0.994490
PhCHCCH2+H	0.00145011	0.998475	0.00268567	0.997176
PhCH2CCH+H	0.000695141	0.999170	0.00128743	0.998463
Ph+MeAc	0.000262360	0.999432	0.000485903	0.998949
PhCCCH3+H	0.000178027	0.999610	0.000329714	0.999279
PAH7+H	0.000130563	0.999741	0.000241809	0.999521
rad30	9.13367e-05	0.999832	0.000169160	0.999690
PAH9+H	6.89549e-05	0.999901	0.000127708	0.999818
rad39	3.03500e-05	0.999932	5.62096e-05	0.999874
rad38	2.54972e-05	0.999957	4.72219e-05	0.999921
rad35	1.54295e-05	0.999972	2.85761e-05	0.999950
rad19anti	1.36963e-05	0.999986	2.53662e-05	0.999975
PAH3+H	4.67729e-06	0.999991	8.66256e-06	0.999984
rad46	3.89969e-06	0.999995	7.22240e-06	0.999991
rad60syn	1.65646e-06	0.999996	3.06785e-06	0.999994
rad60anti	9.23124e-07	0.999997	1.70967e-06	0.999996
rad59	6.45414e-07	0.999998	1.19534e-06	0.999997
rad19syn	4.72655e-07	0.999998	8.75378e-07	0.999998
rad50	4.02312e-07	0.999999	7.45101e-07	0.999999
rad37	2.45622e-07	0.999999	4.54904e-07	0.999999
rad54	1.26767e-07	0.999999	2.34777e-07	0.999999
PhcycC3H3_A+H	6.09439e-08	0.999999	1.12871e-07	0.999999
rad67	3.29355e-08	0.999999	6.09981e-08	0.999999
rad51	2.38710e-08	0.999999	4.42101e-08	1.000000
rad52	1.55703e-08	0.999999	2.88370e-08	1.000000
PAH10+CH3	1.49519e-08	0.999999	2.76916e-08	1.000000
rad70	1.36638e-08	0.999999	2.53059e-08	1.000000
PAH1+H	1.19210e-08	0.999999	2.20783e-08	1.000000
rad6	7.85471e-09	0.999999	1.45473e-08	1.000000
rad58	7.00660e-09	0.999999	1.29765e-08	1.000000
rad55	5.08718e-09	0.999999	9.42168e-09	1.000000
rad62	2.86002e-09	0.999999	5.29690e-09	1.000000
rad34	1.59467e-09	0.999999	2.95340e-09	1.000000
rad43	8.01117e-10	0.999999	1.48371e-09	1.000000
rad65	7.62334e-10	0.999999	1.41188e-09	1.000000
rad23	3.86592e-10	0.999999	7.15986e-10	1.000000
rad53	1.57208e-10	0.999999	2.91156e-10	1.000000
rad45	1.21787e-10	0.999999	2.25556e-10	1.000000
rad64	6.33109e-11	0.999999	1.17255e-10	1.000000
rad56	5.17492e-11	0.999999	9.58419e-11	1.000000
rad42	3.80345e-11	0.999999	7.04417e-11	1.000000
rad2	2.76376e-11	0.999999	5.11861e-11	1.000000
rad73	1.22490e-11	0.999999	2.26857e-11	1.000000
rad36	1.09569e-11	0.999999	2.02926e-11	1.000000
rad28	9.91821e-12	0.999999	1.83690e-11	1.000000
rad20	8.81748e-12	0.999999	1.63304e-11	1.000000
rad68syn	8.78600e-12	0.999999	1.62721e-11	1.000000

rad21	6.41666e-12	0.999999	1.18839e-11	1.000000
rad71	6.33559e-12	0.999999	1.17338e-11	1.000000
rad68anti	5.91601e-12	0.999999	1.09567e-11	1.000000
rad1	5.26643e-12	0.999999	9.75367e-12	1.000000
rad41	5.11393e-12	0.999999	9.47123e-12	1.000000
PAH8+H	3.93421e-12	0.999999	7.28633e-12	1.000000
rad11	3.59590e-12	0.999999	6.65978e-12	1.000000
rad7	3.42805e-12	0.999999	6.34890e-12	1.000000
rad9	2.32534e-12	0.999999	4.30664e-12	1.000000
rad26	1.92327e-12	0.999999	3.56199e-12	1.000000
rad13	1.33610e-12	0.999999	2.47452e-12	1.000000
rad10	1.31822e-12	0.999999	2.44140e-12	1.000000
rad40syn	1.02884e-12	0.999999	1.90546e-12	1.000000
rad61	8.03496e-13	0.999999	1.48811e-12	1.000000
rad3	4.64762e-13	0.999999	8.60760e-13	1.000000
rad40anti	4.39187e-13	0.999999	8.13395e-13	1.000000
rad4	3.39393e-13	0.999999	6.28571e-13	1.000000
rad18	7.80513e-14	0.999999	1.44555e-13	1.000000
rad24	5.90769e-14	0.999999	1.09413e-13	1.000000
rad33	4.70958e-14	0.999999	8.72236e-14	1.000000
rad72	3.69708e-14	0.999999	6.84715e-14	1.000000
rad22	1.63061e-14	0.999999	3.01996e-14	1.000000
rad25	3.14175e-15	0.999999	5.81866e-15	1.000000
rad27	1.12152e-15	0.999999	2.07711e-15	1.000000
rad14	9.26595e-16	0.999999	1.71610e-15	1.000000
rad12	8.61576e-16	0.999999	1.59568e-15	1.000000
rad15	4.94667e-16	0.999999	9.16146e-16	1.000000
rad31	1.86003e-17	0.999999	3.44486e-17	1.000000
rad8	3.09659e-18	0.999999	5.73503e-18	1.000000
rad47	1.59095e-20	0.999999	2.94651e-20	1.000000
rad5	2.10041e-21	0.999999	3.89006e-21	1.000000

0.100000000E-03 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.11075e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.550759	0.550759	0.000000	0.000000
Indene+H	0.439889	0.990648	0.979181	0.979181
Ph+Allene	0.00299528	0.993643	0.00666742	0.985848
PhCCH+CH3	0.00208760	0.995731	0.00464694	0.990495
PhCHCCH2+H	0.00194544	0.997676	0.00433051	0.994826
PhCH2CCH+H	0.00132191	0.998998	0.00294254	0.997768
Ph+MeAc	0.000277389	0.999276	0.000617461	0.998386
PAH7+H	0.000179385	0.999455	0.000399306	0.998785
PhCCCH3+H	0.000149167	0.999604	0.000332043	0.999117
rad30	0.000123015	0.999727	0.000273827	0.999391
PAH9+H	0.000111696	0.999839	0.000248633	0.999640
rad38	4.24979e-05	0.999881	9.45992e-05	0.999734
rad39	4.04278e-05	0.999922	8.99912e-05	0.999824
rad19anti	2.71780e-05	0.999949	6.04975e-05	0.999885
rad35	2.39104e-05	0.999973	5.32239e-05	0.999938
PAH3+H	1.09195e-05	0.999984	2.43064e-05	0.999962
rad46	7.44863e-06	0.999991	1.65805e-05	0.999979
rad60syn	2.99524e-06	0.999994	6.66734e-06	0.999986
rad60anti	1.70291e-06	0.999996	3.79064e-06	0.999989
rad59	1.43231e-06	0.999997	3.18828e-06	0.999993
rad50	1.10328e-06	0.999998	2.45586e-06	0.999995
rad19syn	1.02396e-06	1.000000	2.27932e-06	0.999997
rad37	3.04609e-07	1.000000	6.78053e-07	0.999998
rad54	2.97942e-07	1.000000	6.63211e-07	0.999999
PhcycC3H3_A+H	1.70469e-07	1.000000	3.79460e-07	0.999999
rad67	1.11021e-07	1.000000	2.47129e-07	0.999999
rad51	8.66400e-08	1.000000	1.92858e-07	0.999999
rad52	4.94949e-08	1.000000	1.10174e-07	1.000000
rad70	3.72388e-08	1.000000	8.28926e-08	1.000000
PAH10+CH3	3.55709e-08	1.000000	7.91798e-08	1.000000
PAH1+H	3.40423e-08	1.000000	7.57773e-08	1.000000
rad58	2.33985e-08	1.000000	5.20844e-08	1.000000
rad55	1.32727e-08	1.000000	2.95447e-08	1.000000
rad62	5.84586e-09	1.000000	1.30127e-08	1.000000
rad34	4.93272e-09	1.000000	1.09801e-08	1.000000
rad65	2.75396e-09	1.000000	6.13024e-09	1.000000
rad6	1.94441e-09	1.000000	4.32821e-09	1.000000
rad43	1.31325e-09	1.000000	2.92326e-09	1.000000
rad53	5.86805e-10	1.000000	1.30621e-09	1.000000
rad56	2.36331e-10	1.000000	5.26068e-10	1.000000

rad64	2.26685e-10	1.00000	5.04595e-10	1.000000
rad23	1.81426e-10	1.00000	4.03850e-10	1.000000
rad42	1.03252e-10	1.00000	2.29837e-10	1.000000
rad73	8.76642e-11	1.00000	1.95138e-10	1.000000
rad45	6.14510e-11	1.00000	1.36788e-10	1.000000
rad71	5.13402e-11	1.00000	1.14282e-10	1.000000
rad68syn	4.26232e-11	1.00000	9.48782e-11	1.000000
rad68anti	2.85352e-11	1.00000	6.35187e-11	1.000000
PAH8+H	2.67181e-11	1.00000	5.94738e-11	1.000000
rad41	1.21950e-11	1.00000	2.71457e-11	1.000000
rad20	7.93858e-12	1.00000	1.76711e-11	1.000000
rad2	7.14814e-12	1.00000	1.59116e-11	1.000000
rad40syn	6.09478e-12	1.00000	1.35668e-11	1.000000
rad36	5.64184e-12	1.00000	1.25586e-11	1.000000
rad21	5.10809e-12	1.00000	1.13705e-11	1.000000
rad11	4.83051e-12	1.00000	1.07526e-11	1.000000
rad61	4.16909e-12	1.00000	9.28030e-12	1.000000
rad7	2.81521e-12	1.00000	6.26658e-12	1.000000
rad28	2.76219e-12	1.00000	6.14856e-12	1.000000
rad40anti	2.75105e-12	1.00000	6.12376e-12	1.000000
rad9	2.31868e-12	1.00000	5.16131e-12	1.000000
rad13	1.67987e-12	1.00000	3.73935e-12	1.000000
rad1	1.48731e-12	1.00000	3.31071e-12	1.000000
rad10	7.45652e-13	1.00000	1.65980e-12	1.000000
rad26	5.90511e-13	1.00000	1.31446e-12	1.000000
rad18	2.44879e-13	1.00000	5.45095e-13	1.000000
rad72	2.44076e-13	1.00000	5.43308e-13	1.000000
rad3	1.57487e-13	1.00000	3.50562e-13	1.000000
rad4	1.18489e-13	1.00000	2.63755e-13	1.000000
rad24	4.56170e-14	1.00000	1.01542e-13	1.000000
rad33	3.94493e-14	1.00000	8.78133e-14	1.000000
rad22	1.05411e-14	1.00000	2.34643e-14	1.000000
rad25	3.94409e-15	1.00000	8.77944e-15	1.000000
rad12	1.26340e-15	1.00000	2.81229e-15	1.000000
rad14	7.50329e-16	1.00000	1.67021e-15	1.000000
rad27	7.02600e-16	1.00000	1.56397e-15	1.000000
rad15	5.37902e-16	1.00000	1.19736e-15	1.000000
rad8	3.02695e-17	1.00000	6.73791e-17	1.000000
rad31	1.11580e-17	1.00000	2.48374e-17	1.000000
rad47	5.97553e-20	1.00000	1.33014e-19	1.000000
rad5	6.09928e-21	1.00000	1.35768e-20	1.000000

0.100000000E-03 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.84330e-15 (1.00)	3.30079e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.626747	0.626747	0.00000	0.00000
Indene+H	0.361139	0.987886	0.967544	0.967544
Ph+Allene	0.00426331	0.992149	0.0114220	0.978966
PhCHCCH2+H	0.00242727	0.994577	0.00650302	0.985469
PhCH2CCH+H	0.00220912	0.996786	0.00591855	0.991388
PhCCH+CH3	0.00203529	0.998821	0.00545285	0.996840
Ph+MeAc	0.000271659	0.999093	0.000727813	0.997568
PAH7+H	0.000220958	0.999314	0.000591978	0.998160
PAH9+H	0.000166477	0.999480	0.000446015	0.998606
rad30	0.000155353	0.999635	0.000416215	0.999022
PhCCCH3+H	0.000117029	0.999752	0.000313537	0.999336
rad38	6.49367e-05	0.999817	0.000173975	0.999510
rad19anti	4.80909e-05	0.999865	0.000128843	0.999639
rad39	4.80571e-05	0.999914	0.000128752	0.999768
rad35	3.43899e-05	0.999948	9.21355e-05	0.999860
PAH3+H	2.21253e-05	0.999970	5.92770e-05	0.999919
rad46	1.27762e-05	0.999983	3.42294e-05	0.999953
rad60syn	4.87439e-06	0.999988	1.30592e-05	0.999966
rad60anti	2.81860e-06	0.999991	7.55145e-06	0.999974
rad59	2.76936e-06	0.999993	7.41953e-06	0.999981
rad50	2.57973e-06	0.999996	6.91148e-06	0.999988
rad19syn	1.86136e-06	0.999998	4.98686e-06	0.999993
rad54	5.79322e-07	0.999998	1.55209e-06	0.999995
PhcycC3H3_A+H	3.85542e-07	0.999999	1.03292e-06	0.999996
rad37	3.71909e-07	0.999999	9.96399e-07	0.999997
rad67	3.10056e-07	0.999999	8.30686e-07	0.999998
rad51	2.56411e-07	1.000000	6.86962e-07	0.999998
rad52	1.30815e-07	1.000000	3.50473e-07	0.999999
rad70	8.31661e-08	1.000000	2.22814e-07	0.999999
PAH10+CH3	7.86247e-08	1.000000	2.10647e-07	0.999999

PAH1+H	7.84242e-08	1.00000	2.10110e-07	0.999999
rad58	6.38230e-08	1.00000	1.70991e-07	0.999999
rad55	2.81615e-08	1.00000	7.54487e-08	0.999999
rad34	1.22937e-08	1.00000	3.29365e-08	0.999999
rad62	1.00322e-08	1.00000	2.68777e-08	1.000000
rad65	8.07965e-09	1.00000	2.16466e-08	1.000000
rad43	1.86210e-09	1.00000	4.98883e-09	1.000000
rad53	1.69057e-09	1.00000	4.52927e-09	1.000000
rad56	8.06532e-10	1.00000	2.16082e-09	1.000000
rad6	6.61097e-10	1.00000	1.77118e-09	1.000000
rad64	6.30252e-10	1.00000	1.68854e-09	1.000000
rad73	4.68079e-10	1.00000	1.25405e-09	1.000000
rad71	3.19936e-10	1.00000	8.57156e-10	1.000000
rad42	2.25979e-10	1.00000	6.05432e-10	1.000000
rad68syn	1.55936e-10	1.00000	4.17776e-10	1.000000
PAH8+H	1.30634e-10	1.00000	3.49987e-10	1.000000
rad68anti	1.03878e-10	1.00000	2.78305e-10	1.000000
rad23	8.96274e-11	1.00000	2.40125e-10	1.000000
rad45	3.18962e-11	1.00000	8.54546e-11	1.000000
rad40syn	2.64826e-11	1.00000	7.09506e-11	1.000000
rad41	2.43331e-11	1.00000	6.51920e-11	1.000000
rad61	1.76276e-11	1.00000	4.72270e-11	1.000000
rad40anti	1.25564e-11	1.00000	3.36404e-11	1.000000
rad11	6.34637e-12	1.00000	1.70028e-11	1.000000
rad20	5.25318e-12	1.00000	1.40740e-11	1.000000
rad7	3.78327e-12	1.00000	1.01359e-11	1.000000
rad21	3.17167e-12	1.00000	8.49736e-12	1.000000
rad36	2.97289e-12	1.00000	7.96479e-12	1.000000
rad72	2.18541e-12	1.00000	5.85504e-12	1.000000
rad9	2.03030e-12	1.00000	5.43946e-12	1.000000
rad2	2.02173e-12	1.00000	5.41651e-12	1.000000
rad13	1.38097e-12	1.00000	3.69983e-12	1.000000
rad28	1.01089e-12	1.00000	2.70833e-12	1.000000
rad18	5.20746e-13	1.00000	1.39516e-12	1.000000
rad10	5.14486e-13	1.00000	1.37838e-12	1.000000
rad1	4.42203e-13	1.00000	1.18473e-12	1.000000
rad26	2.32992e-13	1.00000	6.24218e-13	1.000000
rad3	5.75061e-14	1.00000	1.54067e-13	1.000000
rad4	4.40372e-14	1.00000	1.17982e-13	1.000000
rad24	3.33436e-14	1.00000	8.93325e-14	1.000000
rad33	2.51887e-14	1.00000	6.74842e-14	1.000000
rad22	1.22348e-14	1.00000	3.27788e-14	1.000000
rad25	3.68489e-15	1.00000	9.87235e-15	1.000000
rad12	1.57453e-15	1.00000	4.21840e-15	1.000000
rad15	7.29653e-16	1.00000	1.95485e-15	1.000000
rad14	4.93548e-16	1.00000	1.32229e-15	1.000000
rad27	3.33034e-16	1.00000	8.92246e-16	1.000000
rad8	9.89268e-17	1.00000	2.65039e-16	1.000000
rad31	6.76596e-18	1.00000	1.81270e-17	1.000000
rad47	1.81322e-19	1.00000	4.85787e-19	1.000000
rad5	1.98442e-20	1.00000	5.31655e-20	1.000000

0.100000000E-03 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.52810e-14 (1.00)	4.76644e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.688080	0.688080	0.00000	0.00000
Indene+H	0.296944	0.985024	0.951986	0.951986
Ph+Allene	0.00550433	0.990528	0.0176466	0.969633
PhCH2CCH+H	0.00336231	0.993891	0.0107794	0.980412
PhCHCCH2+H	0.00286585	0.996756	0.00918775	0.989600
PhCCH+CH3	0.00187197	0.998628	0.00600145	0.995601
Ph+MeAc	0.000252917	0.998881	0.000810838	0.996412
PAH7+H	0.000251839	0.999133	0.000807383	0.997219
PAH9+H	0.000232565	0.999366	0.000745592	0.997965
rad30	0.000187145	0.999553	0.000599977	0.998565
rad38	9.27358e-05	0.999646	0.000297306	0.998862
PhCCCH3+H	8.81977e-05	0.999734	0.000282757	0.999145
rad19anti	7.76866e-05	0.999812	0.000249059	0.999394
rad39	5.27138e-05	0.999864	0.000168998	0.999563
rad35	4.67240e-05	0.999911	0.000149795	0.999713
PAH3+H	4.01931e-05	0.999951	0.000128857	0.999842
rad46	2.01481e-05	0.999971	6.45939e-05	0.999906
rad60syn	7.32140e-06	0.999979	2.34720e-05	0.999930
rad50	5.32216e-06	0.999984	1.70626e-05	0.999947
rad59	4.81766e-06	0.999989	1.54452e-05	0.999962

rad60anti	4.29551e-06	0.999993	1.37712e-05	0.999976
rad19syn	2.96345e-06	0.999996	9.50065e-06	0.999986
rad54	9.75309e-07	0.999997	3.12679e-06	0.999989
rad67	7.44257e-07	0.999998	2.38605e-06	0.999991
PhcycC3H3_A+H	7.41843e-07	0.999999	2.37831e-06	0.999993
rad51	6.46587e-07	0.999999	2.07293e-06	0.999996
rad37	4.66727e-07	1.000000	1.49630e-06	0.999997
rad52	2.99171e-07	1.000000	9.59127e-07	0.999998
PAH10+CH3	1.66595e-07	1.000000	5.34094e-07	0.999999
rad70	1.60097e-07	1.000000	5.13264e-07	0.999999
PAH1+H	1.54574e-07	1.000000	4.95557e-07	1.000000
rad58	1.48959e-07	1.000000	4.77556e-07	1.000000
rad55	5.10750e-08	1.000000	1.63744e-07	1.000000
rad34	2.60671e-08	1.000000	8.35698e-08	1.000000
rad65	2.01509e-08	1.000000	6.46027e-08	1.000000
rad62	1.51327e-08	1.000000	4.85146e-08	1.000000
rad53	3.99906e-09	1.000000	1.28208e-08	1.000000
rad43	2.42224e-09	1.000000	7.76558e-09	1.000000
rad56	2.20471e-09	1.000000	7.06820e-09	1.000000
rad73	1.94731e-09	1.000000	6.24298e-09	1.000000
rad71	1.52469e-09	1.000000	4.88806e-09	1.000000
rad64	1.45722e-09	1.000000	4.67176e-09	1.000000
PAH8+H	4.97087e-10	1.000000	1.59363e-09	1.000000
rad68syn	4.61121e-10	1.000000	1.47833e-09	1.000000
rad42	4.21653e-10	1.000000	1.35180e-09	1.000000
rad6	3.21478e-10	1.000000	1.03064e-09	1.000000
rad68anti	3.05850e-10	1.000000	9.80538e-10	1.000000
rad40syn	9.09558e-11	1.000000	2.91600e-10	1.000000
rad61	6.30321e-11	1.000000	2.02078e-10	1.000000
rad23	4.63238e-11	1.000000	1.48512e-10	1.000000
rad40anti	4.50262e-11	1.000000	1.44352e-10	1.000000
rad41	4.39795e-11	1.000000	1.40996e-10	1.000000
rad45	1.69984e-11	1.000000	5.44961e-11	1.000000
rad72	1.45407e-11	1.000000	4.66168e-11	1.000000
rad11	6.11971e-12	1.000000	1.96195e-11	1.000000
rad7	4.58141e-12	1.000000	1.46878e-11	1.000000
rad20	3.18168e-12	1.000000	1.02003e-11	1.000000
rad21	1.87706e-12	1.000000	6.01775e-12	1.000000
rad9	1.67033e-12	1.000000	5.35500e-12	1.000000
rad36	1.60595e-12	1.000000	5.14859e-12	1.000000
rad13	8.38721e-13	1.000000	2.68890e-12	1.000000
rad18	6.76242e-13	1.000000	2.16800e-12	1.000000
rad2	6.05385e-13	1.000000	1.94083e-12	1.000000
rad28	5.12076e-13	1.000000	1.64169e-12	1.000000
rad10	3.13254e-13	1.000000	1.00428e-12	1.000000
rad1	1.36482e-13	1.000000	4.37554e-13	1.000000
rad26	1.14711e-13	1.000000	3.67758e-13	1.000000
rad22	3.02579e-14	1.000000	9.70053e-14	1.000000
rad24	2.44030e-14	1.000000	7.82347e-14	1.000000
rad3	2.21577e-14	1.000000	7.10365e-14	1.000000
rad4	1.71761e-14	1.000000	5.50655e-14	1.000000
rad33	1.48897e-14	1.000000	4.77355e-14	1.000000
rad25	2.76129e-15	1.000000	8.85255e-15	1.000000
rad15	2.22472e-15	1.000000	7.13235e-15	1.000000
rad12	1.79600e-15	1.000000	5.75788e-15	1.000000
rad14	2.71775e-16	1.000000	8.71297e-16	1.000000
rad8	1.89596e-16	1.000000	6.07834e-16	1.000000
rad27	1.35026e-16	1.000000	4.32885e-16	1.000000
rad31	4.14040e-18	1.000000	1.32739e-17	1.000000
rad47	4.64665e-19	1.000000	1.48969e-18	1.000000
rad5	6.43444e-20	1.000000	2.06285e-19	1.000000

0.100000000E-03 Pa, 1400.00000 K

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

Total | 2.46691e-14 (1.00) | 6.50155e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.736450	0.736450	0.00000	0.00000
Indene+H	0.245659	0.982109	0.932117	0.932117
Ph+Allene	0.00660861	0.988718	0.0250754	0.957192
PhCH2CCH+H	0.00478128	0.993499	0.0181419	0.975334
PhCHCCH2+H	0.00325578	0.996755	0.0123536	0.987688
PhCCH+CH3	0.00165084	0.998406	0.00626388	0.993952
PAH9+H	0.000308661	0.998714	0.00117117	0.995123
PAH7+H	0.000272630	0.998987	0.00103445	0.996157
Ph+MeAc	0.000228420	0.999215	0.000866707	0.997024
rad30	0.000217655	0.999433	0.000825859	0.997850

rad38	0.000125529	0.999558	0.000476301	0.998326
rad19anti	0.000116511	0.999675	0.000442085	0.998768
PAH3+H	6.69984e-05	0.999742	0.000254215	0.999023
PhCCCH3+H	6.53819e-05	0.999807	0.000248082	0.999271
rad35	6.07397e-05	0.999868	0.000230468	0.999501
rad39	5.49305e-05	0.999923	0.000208426	0.999710
rad46	2.97185e-05	0.999953	0.000112762	0.999822
rad60syn	1.03332e-05	0.999963	3.92077e-05	0.999862
rad50	9.93211e-06	0.999973	3.76859e-05	0.999899
rad59	7.71556e-06	0.999981	2.92756e-05	0.999928
rad60anti	6.13929e-06	0.999987	2.32946e-05	0.999952
rad19syn	4.26609e-06	0.999991	1.61870e-05	0.999968
rad67	1.57759e-06	0.999993	5.98594e-06	0.999974
rad54	1.46998e-06	0.999994	5.57763e-06	0.999980
rad51	1.43445e-06	0.999996	5.44281e-06	0.999985
PhcycC3H3_A+H	1.26043e-06	0.999997	4.78252e-06	0.999990
rad37	6.13241e-07	0.999997	2.32685e-06	0.999992
rad52	6.09458e-07	0.999998	2.31250e-06	0.999994
PAH10+CH3	3.40070e-07	0.999998	1.29034e-06	0.999996
rad58	3.07503e-07	0.999999	1.16677e-06	0.999997
rad70	2.75599e-07	0.999999	1.04572e-06	0.999998
PAH1+H	2.72543e-07	0.999999	1.03413e-06	0.999999
rad55	8.21114e-08	0.999999	3.11559e-07	0.999999
rad34	4.89123e-08	0.999999	1.85590e-07	0.999999
rad65	4.41608e-08	0.999999	1.67562e-07	1.000000
rad62	2.07591e-08	0.999999	7.87674e-08	1.000000
rad53	8.12265e-09	0.999999	3.08202e-08	1.000000
rad73	6.62666e-09	0.999999	2.51439e-08	1.000000
rad71	5.83665e-09	0.999999	2.21463e-08	1.000000
rad56	5.07502e-09	0.999999	1.92564e-08	1.000000
rad43	3.05585e-09	0.999999	1.15950e-08	1.000000
rad64	2.94785e-09	0.999999	1.11852e-08	1.000000
PAH8+H	1.55760e-09	0.999999	5.91010e-09	1.000000
rad68syn	1.15822e-09	0.999999	4.39468e-09	1.000000
rad68anti	7.65284e-10	0.999999	2.90376e-09	1.000000
rad42	6.99013e-10	0.999999	2.65230e-09	1.000000
rad40syn	2.60577e-10	0.999999	9.88719e-10	1.000000
rad6	2.14605e-10	0.999999	8.14286e-10	1.000000
rad61	1.94739e-10	0.999999	7.38908e-10	1.000000
rad40anti	1.33993e-10	0.999999	5.08417e-10	1.000000
rad41	7.68995e-11	0.999999	2.91784e-10	1.000000
rad72	7.37114e-11	0.999999	2.79687e-10	1.000000
rad23	2.50367e-11	0.999999	9.49982e-11	1.000000
rad45	9.31318e-12	0.999999	3.53375e-11	1.000000
rad11	4.34608e-12	0.999999	1.64906e-11	1.000000
rad7	3.98566e-12	0.999999	1.51230e-11	1.000000
rad20	1.95003e-12	0.999999	7.39910e-12	1.000000
rad9	1.32237e-12	0.999999	5.01754e-12	1.000000
rad21	1.13739e-12	0.999999	4.31567e-12	1.000000
rad36	8.91415e-13	0.999999	3.38234e-12	1.000000
rad18	5.84552e-13	0.999999	2.21800e-12	1.000000
rad13	4.53593e-13	0.999999	1.72109e-12	1.000000
rad28	3.55433e-13	0.999999	1.34864e-12	1.000000
rad2	1.89367e-13	0.999999	7.18525e-13	1.000000
rad10	1.49537e-13	0.999999	5.67395e-13	1.000000
rad22	9.31155e-14	0.999999	3.53313e-13	1.000000
rad26	6.41679e-14	0.999999	2.43476e-13	1.000000
rad1	4.36144e-14	0.999999	1.65488e-13	1.000000
rad24	1.80067e-14	0.999999	6.83237e-14	1.000000
rad3	8.93470e-15	0.999999	3.39014e-14	1.000000
rad33	8.80008e-15	0.999999	3.33906e-14	1.000000
rad4	6.99314e-15	0.999999	2.65344e-14	1.000000
rad15	6.44752e-15	0.999999	2.44642e-14	1.000000
rad12	1.93287e-15	0.999999	7.33400e-15	1.000000
rad25	1.92136e-15	0.999999	7.29031e-15	1.000000
rad8	2.79512e-16	0.999999	1.06057e-15	1.000000
rad14	1.42005e-16	0.999999	5.38817e-16	1.000000
rad27	5.43839e-17	0.999999	2.06352e-16	1.000000
rad31	2.56227e-18	0.999999	9.72214e-18	1.000000
rad47	1.04027e-18	0.999999	3.94715e-18	1.000000
rad5	1.81471e-19	0.999999	6.88566e-19	1.000000

0.100000000E-03 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.51560e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.774067	0.774067	0.00000	0.00000
Indene+H	0.205065	0.979132	0.907636	0.907636
Ph+Allene	0.00752036	0.986652	0.0332858	0.940922
PhCH2CCH+H	0.00646723	0.993120	0.0286246	0.969546
PhCHCCH2+H	0.00361205	0.996732	0.0159873	0.985534
PhCCH+CH3	0.00141397	0.998146	0.00625837	0.991792
PAH9+H	0.000393094	0.998539	0.00173987	0.993532
PAH7+H	0.000286546	0.998825	0.00126828	0.994800
rad30	0.000246477	0.999072	0.00109093	0.995891
Ph+MeAc	0.000203626	0.999275	0.000901268	0.996792
rad19anti	0.000164236	0.999440	0.000726923	0.997519
rad38	0.000162728	0.999602	0.000720251	0.998240
PAH3+H	0.000104218	0.999707	0.000461281	0.998701
rad35	7.62565e-05	0.999783	0.000337518	0.999038
rad39	5.58557e-05	0.999839	0.000247223	0.999286
PhCCCH3+H	4.89505e-05	0.999888	0.000216660	0.999502
rad46	4.15217e-05	0.999929	0.000183779	0.999686
rad50	1.70754e-05	0.999946	7.55771e-05	0.999762
rad60syn	1.38815e-05	0.999960	6.14410e-05	0.999823
rad59	1.15663e-05	0.999972	5.11935e-05	0.999874
rad60anti	8.33859e-06	0.999980	3.69074e-05	0.999911
rad19syn	5.68956e-06	0.999986	2.51825e-05	0.999936
rad67	3.01383e-06	0.999989	1.33395e-05	0.999950
rad51	2.86542e-06	0.999992	1.26826e-05	0.999962
rad54	2.03370e-06	0.999994	9.00134e-06	0.999971
PhcycC3H3_A+H	1.94411e-06	0.999996	8.60479e-06	0.999980
rad52	1.12959e-06	0.999997	4.99968e-06	0.999985
rad37	8.38280e-07	0.999997	3.71030e-06	0.999989
PAH10+CH3	6.63376e-07	0.999998	2.93617e-06	0.999992
rad58	5.75067e-07	0.999999	2.54530e-06	0.999994
PAH1+H	4.44629e-07	0.999999	1.96797e-06	0.999996
rad70	4.35873e-07	1.000000	1.92921e-06	0.999998
rad55	1.20222e-07	1.000000	5.32112e-07	0.999999
rad65	8.70999e-08	1.000000	3.85512e-07	0.999999
rad34	8.35876e-08	1.000000	3.69966e-07	0.999999
rad62	2.65880e-08	1.000000	1.17681e-07	0.999999
rad73	1.91029e-08	1.000000	8.45514e-08	1.000000
rad71	1.86182e-08	1.000000	8.24061e-08	1.000000
rad53	1.46409e-08	1.000000	6.48019e-08	1.000000
rad56	1.02046e-08	1.000000	4.51664e-08	1.000000
rad64	5.41559e-09	1.000000	2.39699e-08	1.000000
PAH8+H	4.18063e-09	1.000000	1.85038e-08	1.000000
rad43	3.92947e-09	1.000000	1.73922e-08	1.000000
rad68syn	2.56012e-09	1.000000	1.13313e-08	1.000000
rad68anti	1.68587e-09	1.000000	7.46183e-09	1.000000
rad42	1.06259e-09	1.000000	4.70314e-09	1.000000
rad40syn	6.46765e-10	1.000000	2.86264e-09	1.000000
rad61	5.26864e-10	1.000000	2.33195e-09	1.000000
rad40anti	3.43892e-10	1.000000	1.52210e-09	1.000000
rad72	2.96654e-10	1.000000	1.31302e-09	1.000000
rad6	1.74376e-10	1.000000	7.71805e-10	1.000000
rad41	1.35344e-10	1.000000	5.99047e-10	1.000000
rad23	1.42408e-11	1.000000	6.30312e-11	1.000000
rad45	5.25378e-12	1.000000	2.32537e-11	1.000000
rad7	2.61118e-12	1.000000	1.15573e-11	1.000000
rad11	2.60726e-12	1.000000	1.15400e-11	1.000000
rad20	1.23074e-12	1.000000	5.44737e-12	1.000000
rad9	1.02380e-12	1.000000	4.53144e-12	1.000000
rad21	7.10954e-13	1.000000	3.14675e-12	1.000000
rad36	5.09278e-13	1.000000	2.25411e-12	1.000000
rad18	4.05526e-13	1.000000	1.79489e-12	1.000000
rad28	3.04914e-13	1.000000	1.34958e-12	1.000000
rad13	2.40732e-13	1.000000	1.06550e-12	1.000000
rad22	2.36917e-13	1.000000	1.04862e-12	1.000000
rad2	6.16662e-14	1.000000	2.72940e-13	1.000000
rad10	5.89564e-14	1.000000	2.60946e-13	1.000000
rad26	3.61874e-14	1.000000	1.60169e-13	1.000000
rad1	1.44492e-14	1.000000	6.39533e-14	1.000000
rad24	1.34246e-14	1.000000	5.94185e-14	1.000000
rad15	1.15591e-14	1.000000	5.11616e-14	1.000000
rad33	5.25062e-15	1.000000	2.32397e-14	1.000000
rad3	3.75628e-15	1.000000	1.66257e-14	1.000000
rad4	2.96427e-15	1.000000	1.31202e-14	1.000000
rad12	1.99725e-15	1.000000	8.84000e-15	1.000000
rad25	1.32639e-15	1.000000	5.87073e-15	1.000000
rad8	3.57803e-16	1.000000	1.58367e-15	1.000000
rad14	7.59838e-17	1.000000	3.36311e-16	1.000000
rad27	2.30978e-17	1.000000	1.02233e-16	1.000000
rad47	2.08549e-18	1.000000	9.23060e-18	1.000000
rad31	1.60839e-18	1.000000	7.11889e-18	1.000000

rad5 | 3.97111e-19 1.00000 | 1.75765e-18 1.000000

0.100000000E-03 Pa, 1750.00000 K

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

Total | 9.18604e-14 (1.00) | 1.49145e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837640	0.837640	0.000000	0.000000
Indene+H	0.133064	0.970704	0.819559	0.819559
PhCH2CCH+H	0.0118056	0.982510	0.0727127	0.892272
Ph+Allene	0.00950091	0.992011	0.0585175	0.950789
PhCHCCH2+H	0.00446803	0.996479	0.0275192	0.978308
PhCCH+CH3	0.000861597	0.997340	0.00530671	0.983615
PAH9+H	0.000556652	0.997897	0.00342850	0.987044
rad30	0.000325000	0.998222	0.00200173	0.989045
rad19anti	0.000321503	0.998543	0.00198018	0.991026
rad38	0.000287109	0.998830	0.00176835	0.992794
PAH7+H	0.000286344	0.999117	0.00176363	0.994557
PAH3+H	0.000275296	0.999392	0.00169559	0.996253
Ph+MeAc	0.000167695	0.999560	0.00103286	0.997286
rad35	0.000110066	0.999670	0.000677915	0.997964
rad46	7.52920e-05	0.999745	0.000463735	0.998428
rad39	5.82425e-05	0.999803	0.000358724	0.998786
rad50	4.36581e-05	0.999847	0.000268897	0.999055
PhCCCH3+H	3.20470e-05	0.999879	0.000197382	0.999253
rad59	2.75338e-05	0.999907	0.000169584	0.999422
rad60syn	2.64498e-05	0.999933	0.000162908	0.999585
rad60anti	1.77452e-05	0.999951	0.000109295	0.999694
rad51	1.06304e-05	0.999961	6.54744e-05	0.999760
rad67	1.00266e-05	0.999971	6.17554e-05	0.999822
rad19syn	8.12817e-06	0.999980	5.00626e-05	0.999872
PhcycC3H3_A+H	4.32964e-06	0.999984	2.66669e-05	0.999898
rad52	3.62585e-06	0.999988	2.23321e-05	0.999921
rad54	3.10468e-06	0.999991	1.91222e-05	0.999940
PAH10+CH3	2.60306e-06	0.999993	1.60326e-05	0.999956
rad58	2.01823e-06	0.999995	1.24306e-05	0.999968
rad37	1.70772e-06	0.999997	1.05181e-05	0.999979
PAH1+H	1.10635e-06	0.999998	6.81420e-06	0.999986
rad70	1.04847e-06	0.999999	6.45765e-06	0.999992
rad65	3.08349e-07	0.999999	1.89916e-06	0.999994
rad34	2.42002e-07	1.000000	1.49052e-06	0.999995
rad55	2.29000e-07	1.000000	1.41044e-06	0.999997
rad71	1.90761e-07	1.000000	1.17492e-06	0.999998
rad73	1.56382e-07	1.000000	9.63183e-07	0.999999
rad53	4.44391e-08	1.000000	2.73707e-07	0.999999
rad62	4.00911e-08	1.000000	2.46927e-07	1.000000
rad56	3.57943e-08	1.000000	2.20463e-07	1.000000
PAH8+H	2.43961e-08	1.000000	1.50259e-07	1.000000
rad64	1.92943e-08	1.000000	1.18837e-07	1.000000
rad68syn	1.20123e-08	1.000000	7.39858e-08	1.000000
rad43	8.60713e-09	1.000000	5.30126e-08	1.000000
rad68anti	7.79057e-09	1.000000	4.79833e-08	1.000000
rad72	5.36073e-09	1.000000	3.30175e-08	1.000000
rad40syn	3.52158e-09	1.000000	2.16899e-08	1.000000
rad61	3.50342e-09	1.000000	2.15781e-08	1.000000
rad42	2.39318e-09	1.000000	1.47399e-08	1.000000
rad40anti	2.09784e-09	1.000000	1.29209e-08	1.000000
rad41	5.64326e-10	1.000000	3.47576e-09	1.000000
rad6	8.29980e-11	1.000000	5.11197e-10	1.000000
rad23	3.92907e-12	1.000000	2.41997e-11	1.000000
rad22	5.59845e-13	1.000000	3.44817e-12	1.000000
rad45	5.01033e-13	1.000000	3.08594e-12	1.000000
rad7	2.70592e-13	1.000000	1.66662e-12	1.000000
rad11	2.49483e-13	1.000000	1.53660e-12	1.000000
rad28	1.77867e-13	1.000000	1.09551e-12	1.000000
rad9	1.34030e-13	1.000000	8.25510e-13	1.000000
rad20	1.26283e-13	1.000000	7.77797e-13	1.000000
rad36	8.51558e-14	1.000000	5.24487e-13	1.000000
rad21	6.65178e-14	1.000000	4.09693e-13	1.000000
rad18	5.81037e-14	1.000000	3.57869e-13	1.000000
rad13	1.40369e-14	1.000000	8.64556e-14	1.000000
rad15	6.73321e-15	1.000000	4.14708e-14	1.000000
rad26	4.70055e-15	1.000000	2.89514e-14	1.000000
rad10	2.43135e-15	1.000000	1.49750e-14	1.000000
rad24	1.70134e-15	1.000000	1.04788e-14	1.000000
rad2	1.08849e-15	1.000000	6.70419e-15	1.000000
rad12	4.26945e-16	1.000000	2.62962e-15	1.000000

rad33	3.32922e-16	1.00000	2.05052e-15	1.00000
rad1	2.72955e-16	1.00000	1.68117e-15	1.00000
rad8	1.74118e-16	1.00000	1.07242e-15	1.00000
rad25	1.29129e-16	1.00000	7.95327e-16	1.00000
rad3	8.46426e-17	1.00000	5.21326e-16	1.00000
rad4	5.37290e-17	1.00000	3.30925e-16	1.00000
rad14	5.21570e-18	1.00000	3.21243e-17	1.00000
rad47	2.44664e-18	1.00000	1.50692e-17	1.00000
rad5	1.28474e-18	1.00000	7.91288e-18	1.00000
rad27	9.07196e-19	1.00000	5.58755e-18	1.00000

0.100000000E-03 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.47588e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866428	0.866428	0.00000	0.00000
Indene+H	0.0943885	0.960816	0.706650	0.706650
PhCH2CCH+H	0.0189358	0.979752	0.141765	0.848415
Ph+Allene	0.0101088	0.989861	0.0756807	0.924096
PhCHCCH2+H	0.00579099	0.995652	0.0433549	0.967451
PAH9+H	0.000765251	0.996417	0.00572913	0.973180
PhCCH+CH3	0.000550354	0.996968	0.00412028	0.977300
PAH3+H	0.000526246	0.997494	0.00393980	0.981240
rad19anti	0.000486607	0.997981	0.00364303	0.984883
rad38	0.000411538	0.998392	0.00308103	0.987964
rad30	0.000378289	0.998770	0.00283210	0.990796
PAH7+H	0.000350388	0.999121	0.00262322	0.993419
Ph+MeAc	0.000164748	0.999286	0.00123340	0.994653
rad35	0.000155515	0.999441	0.00116428	0.995817
rad46	0.000120109	0.999561	0.000899212	0.996716
rad50	9.58270e-05	0.999657	0.000717420	0.997434
rad39	7.87039e-05	0.999736	0.000589225	0.998023
rad59	4.92026e-05	0.999785	0.000368361	0.998391
rad60syn	4.01110e-05	0.999825	0.000300295	0.998691
PhCCCH3+H	3.61306e-05	0.999861	0.000270495	0.998962
rad51	2.92772e-05	0.999890	0.000219187	0.999181
rad60anti	2.75040e-05	0.999918	0.000205912	0.999387
rad67	2.43946e-05	0.999942	0.000182633	0.999570
rad19syn	1.17085e-05	0.999954	8.76566e-05	0.999657
rad52	8.84586e-06	0.999963	6.62255e-05	0.999723
PAH10+CH3	7.72771e-06	0.999971	5.78543e-05	0.999781
PhcycC3H3_A+H	7.44556e-06	0.999978	5.57420e-05	0.999837
rad58	5.03691e-06	0.999983	3.77093e-05	0.999875
rad54	4.34710e-06	0.999987	3.25450e-05	0.999907
rad37	3.43690e-06	0.999991	2.57307e-05	0.999933
PAH1+H	2.74924e-06	0.999994	2.05825e-05	0.999954
rad70	2.09354e-06	0.999996	1.56735e-05	0.999969
rad71	1.06961e-06	0.999997	8.00779e-06	0.999977
rad65	8.19688e-07	0.999998	6.13669e-06	0.999983
rad73	7.43911e-07	0.999998	5.56937e-06	0.999989
rad34	5.52321e-07	0.999999	4.13501e-06	0.999993
rad55	3.53324e-07	0.999999	2.64520e-06	0.999996
PAH8+H	1.14510e-07	0.999999	8.57294e-07	0.999997
rad53	9.72439e-08	0.999999	7.28027e-07	0.999997
rad56	9.21216e-08	1.000000	6.89678e-07	0.999998
rad62	6.00485e-08	1.000000	4.49560e-07	0.999999
rad64	5.57952e-08	1.000000	4.17717e-07	0.999999
rad72	4.29770e-08	1.000000	3.21752e-07	0.999999
rad68syn	4.11172e-08	1.000000	3.07828e-07	1.000000
rad68anti	2.65281e-08	1.000000	1.98605e-07	1.000000
rad43	2.20258e-08	1.000000	1.64898e-07	1.000000
rad61	1.54174e-08	1.000000	1.15424e-07	1.000000
rad40syn	1.44056e-08	1.000000	1.07849e-07	1.000000
rad40anti	9.08224e-09	1.000000	6.79952e-08	1.000000
rad42	4.93493e-09	1.000000	3.69459e-08	1.000000
rad41	1.99345e-09	1.000000	1.49241e-08	1.000000
rad6	1.00444e-11	1.000000	7.51986e-11	1.000000
rad23	1.86169e-12	1.000000	1.39377e-11	1.000000
rad45	1.66573e-13	1.000000	1.24707e-12	1.000000
rad22	1.53033e-13	1.000000	1.14570e-12	1.000000
rad9	6.81594e-14	1.000000	5.10282e-13	1.000000
rad11	5.37316e-14	1.000000	4.02267e-13	1.000000
rad20	5.29552e-14	1.000000	3.96455e-13	1.000000
rad7	4.21724e-14	1.000000	3.15729e-13	1.000000
rad28	3.32366e-14	1.000000	2.48829e-13	1.000000
rad36	2.91201e-14	1.000000	2.18011e-13	1.000000

rad21	2.72287e-14	1.000000	2.03851e-13	1.00000
rad18	1.62503e-14	1.000000	1.21660e-13	1.00000
rad15	3.62850e-15	1.000000	2.71652e-14	1.00000
rad13	3.15047e-15	1.000000	2.35863e-14	1.00000
rad24	9.49359e-16	1.000000	7.10748e-15	1.00000
rad26	6.50769e-16	1.000000	4.87205e-15	1.00000
rad12	3.72964e-16	1.000000	2.79223e-15	1.00000
rad10	2.42603e-16	1.000000	1.81627e-15	1.00000
rad8	2.00223e-16	1.000000	1.49899e-15	1.00000
rad33	1.02785e-16	1.000000	7.69509e-16	1.00000
rad2	1.00844e-16	1.000000	7.54976e-16	1.00000
rad25	5.51560e-17	1.000000	4.12931e-16	1.00000
rad1	2.67202e-17	1.000000	2.00043e-16	1.00000
rad3	1.46402e-17	1.000000	1.09605e-16	1.00000
rad4	9.35625e-18	1.000000	7.00466e-17	1.00000
rad47	6.72667e-18	1.000000	5.03600e-17	1.00000
rad5	1.88503e-18	1.000000	1.41125e-17	1.00000
rad14	1.43913e-18	1.000000	1.07742e-17	1.00000
rad27	2.36925e-19	1.000000	1.77376e-18	1.00000

0.1000000000E-03 Pa, 2250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	4.00875e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.878204	0.878204	0.00000	0.00000
Indene+H	0.0703003	0.948504	0.577195	0.577195
PhCH2CCH+H	0.0277459	0.976250	0.227806	0.805001
Ph+Allene	0.0105974	0.986848	0.0870088	0.892010
PhCHCCH2+H	0.00765656	0.994504	0.0628636	0.954873
PAH9+H	0.000941856	0.995446	0.00773304	0.962606
PAH3+H	0.000857236	0.996303	0.00703827	0.969645
rad19anti	0.000629228	0.996932	0.00516623	0.974811
rad38	0.000525523	0.997458	0.00431476	0.979126
PAH7+H	0.000454502	0.997913	0.00373165	0.982857
rad30	0.000417263	0.998330	0.00342591	0.986283
PhCCH+CH3	0.000383697	0.998713	0.00315031	0.989434
rad35	0.000200865	0.998914	0.00164918	0.991083
Ph+MeAc	0.000197882	0.999112	0.00162470	0.992707
rad50	0.000170940	0.999283	0.00140349	0.994111
rad46	0.000166540	0.999450	0.00136737	0.995478
rad39	0.000118806	0.999568	0.000975445	0.996454
rad59	7.57691e-05	0.999644	0.000622096	0.997076
rad51	6.22686e-05	0.999707	0.000511251	0.997587
rad60syn	5.44510e-05	0.999761	0.000447066	0.998034
PhCCCH3+H	5.15901e-05	0.999813	0.000423577	0.998458
rad67	4.61782e-05	0.999859	0.000379142	0.998837
rad60anti	3.79865e-05	0.999897	0.000311885	0.999149
PAH10+CH3	1.71933e-05	0.999914	0.000141164	0.999290
rad52	1.70844e-05	0.999931	0.000140270	0.999430
rad19syn	1.63932e-05	0.999947	0.000134595	0.999565
PhcycC3H3_A+H	1.10275e-05	0.999958	9.05407e-05	0.999655
rad58	1.00660e-05	0.999969	8.26458e-05	0.999738
PAH1+H	5.96728e-06	0.999974	4.89939e-05	0.999787
rad37	5.72356e-06	0.999980	4.69928e-05	0.999834
rad54	5.39698e-06	0.999986	4.43115e-05	0.999878
rad71	3.95691e-06	0.999990	3.24879e-05	0.999911
rad70	3.69403e-06	0.999993	3.03296e-05	0.999941
rad73	2.41459e-06	0.999996	1.98248e-05	0.999961
rad65	1.68525e-06	0.999997	1.38367e-05	0.999975
rad34	1.08371e-06	0.999998	8.89771e-06	0.999984
rad55	4.74067e-07	0.999999	3.89229e-06	0.999988
PAH8+H	3.91946e-07	0.999999	3.21804e-06	0.999991
rad72	2.09318e-07	1.000000	1.71859e-06	0.999992
rad56	1.86168e-07	1.000000	1.52852e-06	0.999994
rad53	1.73183e-07	1.000000	1.42191e-06	0.999995
rad64	1.33616e-07	1.000000	1.09704e-06	0.999997
rad68syn	1.10265e-07	1.000000	9.05322e-07	0.999997
rad62	9.48259e-08	1.000000	7.78561e-07	0.999998
rad68anti	7.08807e-08	1.000000	5.81961e-07	0.999999
rad43	4.82400e-08	1.000000	3.96071e-07	0.999999
rad61	4.62524e-08	1.000000	3.79752e-07	1.000000
rad40syn	4.43238e-08	1.000000	3.63917e-07	1.000000
rad40anti	2.91751e-08	1.000000	2.39540e-07	1.000000
rad42	1.00367e-08	1.000000	8.24055e-08	1.000000
rad41	5.35211e-09	1.000000	4.39431e-08	1.000000
rad6	1.25977e-12	1.000000	1.03432e-11	1.000000

rad23	4.96464e-13	1.00000	4.07618e-12	1.00000
rad45	6.43767e-14	1.00000	5.28560e-13	1.00000
rad22	3.96693e-14	1.00000	3.25702e-13	1.00000
rad9	3.53900e-14	1.00000	2.90567e-13	1.00000
rad20	2.60557e-14	1.00000	2.13928e-13	1.00000
rad11	1.62863e-14	1.00000	1.33717e-13	1.00000
rad21	1.30011e-14	1.00000	1.06745e-13	1.00000
rad36	1.15215e-14	1.00000	9.45963e-14	1.00000
rad7	9.44364e-15	1.00000	7.75363e-14	1.00000
rad18	6.17424e-15	1.00000	5.06931e-14	1.00000
rad28	5.10049e-15	1.00000	4.18772e-14	1.00000
rad15	2.11042e-15	1.00000	1.73275e-14	1.00000
rad13	8.56555e-16	1.00000	7.03268e-15	1.00000
rad24	5.70002e-16	1.00000	4.67996e-15	1.00000
rad12	3.05352e-16	1.00000	2.50707e-15	1.00000
rad26	2.25572e-16	1.00000	1.85204e-15	1.00000
rad8	2.16858e-16	1.00000	1.78050e-15	1.00000
rad10	7.22468e-17	1.00000	5.93177e-16	1.00000
rad33	3.63728e-17	1.00000	2.98636e-16	1.00000
rad25	2.84538e-17	1.00000	2.33618e-16	1.00000
rad2	1.51446e-17	1.00000	1.24344e-16	1.00000
rad47	1.41374e-17	1.00000	1.16074e-16	1.00000
rad1	4.41397e-18	1.00000	3.62406e-17	1.00000
rad3	3.18842e-18	1.00000	2.61783e-17	1.00000
rad5	2.09445e-18	1.00000	1.71963e-17	1.00000
rad4	2.03082e-18	1.00000	1.66739e-17	1.00000
rad14	5.33285e-19	1.00000	4.37850e-18	1.00000
rad27	1.32554e-19	1.00000	1.08833e-18	1.00000

0.100000000E-03 Pa, 2500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.32896e-13 (1.00)	6.40311e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.879843	0.879843	0.00000	0.00000
Indene+H	0.0541638	0.934007	0.450777	0.450777
PhCH2CCH+H	0.0379681	0.971975	0.315989	0.766766
Ph+Allene	0.0112444	0.983219	0.0935810	0.860347
PhCHCCH2+H	0.00999485	0.993214	0.0831818	0.943529
PAH3+H	0.00124356	0.994458	0.0103495	0.953878
PAH9+H	0.00106545	0.995523	0.00886715	0.962745
rad19anti	0.000731028	0.996254	0.00608396	0.968829
rad38	0.000614393	0.996869	0.00511327	0.973943
PAH7+H	0.000586817	0.997455	0.00488376	0.978826
rad30	0.000442203	0.997898	0.00368022	0.982507
PhCCH+CH3	0.000309130	0.998207	0.00257273	0.985079
rad50	0.000261677	0.998468	0.00217780	0.987257
Ph+MeAc	0.000256973	0.998725	0.00213865	0.989396
rad35	0.000242192	0.998968	0.00201564	0.991411
rad46	0.000207878	0.999175	0.00173006	0.993142
rad39	0.000175772	0.999351	0.00146285	0.994604
rad51	0.000109649	0.999461	0.000912547	0.995517
rad59	0.000104825	0.999566	0.000872406	0.996389
rad67	7.34547e-05	0.999639	0.000611325	0.997001
PhCCCH3+H	7.22810e-05	0.999711	0.000601557	0.997602
rad60syn	6.81857e-05	0.999780	0.000567474	0.998170
rad60anti	4.82378e-05	0.999828	0.000401457	0.998571
PAH10+CH3	3.08998e-05	0.999859	0.000257163	0.998828
rad52	2.78077e-05	0.999887	0.000231429	0.999060
rad19syn	2.34810e-05	0.999910	0.000195420	0.999255
rad58	1.71635e-05	0.999927	0.000142842	0.999398
PhcycC3H3_A+H	1.49440e-05	0.999942	0.000124371	0.999522
PAH1+H	1.13017e-05	0.999953	9.40581e-05	0.999616
rad71	1.08628e-05	0.999964	9.04053e-05	0.999707
rad37	8.12868e-06	0.999972	6.76507e-05	0.999774
rad54	6.28002e-06	0.999979	5.22652e-05	0.999827
rad70	5.97099e-06	0.999985	4.96933e-05	0.999876
rad73	5.95726e-06	0.999991	4.95791e-05	0.999926
rad65	2.87595e-06	0.999994	2.39350e-05	0.999950
rad34	1.90624e-06	0.999995	1.58647e-05	0.999966
PAH8+H	1.06524e-06	0.999997	8.86540e-06	0.999975
rad72	7.14903e-07	0.999997	5.94976e-06	0.999981
rad55	5.87553e-07	0.999998	4.88989e-06	0.999986
rad56	3.21872e-07	0.999998	2.67877e-06	0.999988
rad64	2.70855e-07	0.999998	2.25419e-06	0.999990
rad53	2.70820e-07	0.999999	2.25389e-06	0.999993
rad68syn	2.47504e-07	0.999999	2.05985e-06	0.999995

rad68anti	1.58683e-07	0.999999	1.32064e-06	0.999996
rad62	1.55148e-07	0.999999	1.29122e-06	0.999997
rad40syn	1.10734e-07	0.999999	9.21579e-07	0.999998
rad61	1.05680e-07	0.999999	8.79519e-07	0.999999
rad43	8.79692e-08	1.000000	7.32121e-07	1.000000
rad40anti	7.53435e-08	1.000000	6.27044e-07	1.000000
rad42	1.97239e-08	1.000000	1.64152e-07	1.000000
rad41	1.13877e-08	1.000000	9.47734e-08	1.000000
rad6	2.27791e-13	1.000000	1.89578e-12	1.000000
rad23	1.51450e-13	1.000000	1.26044e-12	1.000000
rad45	2.79935e-14	1.000000	2.32975e-13	1.000000
rad9	1.88160e-14	1.000000	1.56596e-13	1.000000
rad20	1.43940e-14	1.000000	1.19794e-13	1.000000
rad22	1.35313e-14	1.000000	1.12614e-13	1.000000
rad21	6.94971e-15	1.000000	5.78387e-14	1.000000
rad11	6.25805e-15	1.000000	5.20824e-14	1.000000
rad36	5.10784e-15	1.000000	4.25099e-14	1.000000
rad18	2.77736e-15	1.000000	2.31145e-14	1.000000
rad7	2.64673e-15	1.000000	2.20273e-14	1.000000
rad15	1.25452e-15	1.000000	1.04407e-14	1.000000
rad28	1.21156e-15	1.000000	1.00832e-14	1.000000
rad24	3.60418e-16	1.000000	2.99957e-15	1.000000
rad13	2.74551e-16	1.000000	2.28494e-15	1.000000
rad12	2.40046e-16	1.000000	1.99778e-15	1.000000
rad8	2.25267e-16	1.000000	1.87478e-15	1.000000
rad26	1.25167e-16	1.000000	1.04170e-15	1.000000
rad10	4.03591e-17	1.000000	3.35887e-16	1.000000
rad47	2.44566e-17	1.000000	2.03539e-16	1.000000
rad25	1.71221e-17	1.000000	1.42498e-16	1.000000
rad33	1.46761e-17	1.000000	1.22141e-16	1.000000
rad2	4.62692e-18	1.000000	3.85074e-17	1.000000
rad5	2.17067e-18	1.000000	1.80653e-17	1.000000
rad1	1.56073e-18	1.000000	1.29891e-17	1.000000
rad3	8.71228e-19	1.000000	7.25076e-18	1.000000
rad4	5.46680e-19	1.000000	4.54973e-18	1.000000
rad14	2.68051e-19	1.000000	2.23085e-18	1.000000
rad27	1.07390e-19	1.000000	8.93746e-19	1.000000

0.100000000E-03 Pa, 2750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.05113e-13 (1.00)	1.00487e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.875189	0.875189	0.00000	0.00000
PhCH2CCH+H	0.0492371	0.924426	0.394492	0.394492
Indene+H	0.0427171	0.967143	0.342254	0.736746
PhCHCCH2+H	0.0126523	0.979795	0.101371	0.838117
Ph+Allene	0.0121360	0.991931	0.0972347	0.935352
PAH3+H	0.00165412	0.993586	0.0132530	0.948605
PAH9+H	0.00112924	0.994715	0.00904761	0.957652
rad19anti	0.000790044	0.995505	0.00632991	0.963982
PAH7+H	0.000729333	0.996234	0.00584349	0.969826
rad38	0.000670521	0.996905	0.00537228	0.975198
rad30	0.000454283	0.997359	0.00363976	0.978838
rad50	0.000356822	0.997716	0.00285889	0.981697
Ph+MeAc	0.000331297	0.998047	0.00265438	0.984351
PhCCH+CH3	0.000293338	0.998340	0.00235025	0.986701
rad35	0.000276886	0.998617	0.00221844	0.988920
rad39	0.000242689	0.998860	0.00194445	0.990864
rad46	0.000239377	0.999099	0.00191791	0.992782
rad51	0.000167552	0.999267	0.00134245	0.994125
rad59	0.000133898	0.999401	0.00107280	0.995197
rad67	0.000103303	0.999504	0.000827674	0.996025
PhCCCH3+H	9.47597e-05	0.999599	0.000759224	0.996784
rad60syn	8.03400e-05	0.999679	0.000643692	0.997428
rad60anti	5.74980e-05	0.999737	0.000460680	0.997889
PAH10+CH3	4.75540e-05	0.999784	0.000381007	0.998270
rad52	3.97965e-05	0.999824	0.000318854	0.998588
rad19syn	3.43481e-05	0.999858	0.000275200	0.998864
rad58	2.60271e-05	0.999885	0.000208532	0.999072
rad71	2.39120e-05	0.999908	0.000191585	0.999264
PhcycC3H3_A+H	1.91124e-05	0.999928	0.000153131	0.999417
PAH1+H	1.89313e-05	0.999946	0.000151679	0.999569
rad73	1.19963e-05	0.999958	9.61159e-05	0.999665
rad37	1.02458e-05	0.999969	8.20902e-05	0.999747
rad70	8.97456e-06	0.999978	7.19051e-05	0.999819
rad54	7.04852e-06	0.999985	5.64734e-05	0.999875

rad65	4.27356e-06	0.999989	3.42402e-05	0.999909
rad34	3.06724e-06	0.999992	2.45750e-05	0.999934
PAH8+H	2.42508e-06	0.999995	1.94299e-05	0.999953
rad72	1.88022e-06	0.999996	1.50645e-05	0.999968
rad55	6.94535e-07	0.999997	5.56468e-06	0.999974
rad56	5.00306e-07	0.999998	4.00850e-06	0.999978
rad68syn	4.83458e-07	0.999998	3.87351e-06	0.999982
rad64	4.76899e-07	0.999999	3.82096e-06	0.999986
rad53	3.88200e-07	0.999999	3.11030e-06	0.999989
rad68anti	3.09361e-07	0.999999	2.47863e-06	0.999991
rad62	2.47711e-07	0.999999	1.98468e-06	0.999993
rad40syn	2.35491e-07	1.000000	1.88678e-06	0.999995
rad61	1.98411e-07	1.000000	1.58969e-06	0.999997
rad40anti	1.64464e-07	1.000000	1.31770e-06	0.999998
rad43	1.38326e-07	1.000000	1.10828e-06	0.999999
rad42	3.59374e-08	1.000000	2.87934e-07	1.000000
rad41	2.03340e-08	1.000000	1.62918e-07	1.000000
rad23	5.57362e-14	1.000000	4.46564e-13	1.000000
rad6	5.36871e-14	1.000000	4.30146e-13	1.000000
rad45	1.33250e-14	1.000000	1.06761e-13	1.000000
rad9	1.02870e-14	1.000000	8.24204e-14	1.000000
rad20	8.68783e-15	1.000000	6.96078e-14	1.000000
rad22	5.54310e-15	1.000000	4.44119e-14	1.000000
rad21	4.05053e-15	1.000000	3.24532e-14	1.000000
rad11	2.91953e-15	1.000000	2.33916e-14	1.000000
rad36	2.47005e-15	1.000000	1.97903e-14	1.000000
rad18	1.40097e-15	1.000000	1.12247e-14	1.000000
rad7	8.87434e-16	1.000000	7.11021e-15	1.000000
rad15	7.56595e-16	1.000000	6.06191e-15	1.000000
rad28	4.37046e-16	1.000000	3.50165e-15	1.000000
rad24	2.36701e-16	1.000000	1.89647e-15	1.000000
rad8	2.27048e-16	1.000000	1.81913e-15	1.000000
rad12	1.84640e-16	1.000000	1.47935e-15	1.000000
rad13	1.02992e-16	1.000000	8.25185e-16	1.000000
rad26	7.75713e-17	1.000000	6.21508e-16	1.000000
rad47	3.65965e-17	1.000000	2.93215e-16	1.000000
rad10	2.66337e-17	1.000000	2.13392e-16	1.000000
rad25	1.16293e-17	1.000000	9.31748e-17	1.000000
rad33	6.71473e-18	1.000000	5.37991e-17	1.000000
rad2	2.34833e-18	1.000000	1.88151e-17	1.000000
rad5	2.16056e-18	1.000000	1.73106e-17	1.000000
rad1	9.11960e-19	1.000000	7.30672e-18	1.000000
rad3	2.95667e-19	1.000000	2.36891e-18	1.000000
rad4	1.80944e-19	1.000000	1.44974e-18	1.000000
rad14	1.77542e-19	1.000000	1.42248e-18	1.000000
rad27	9.32033e-20	1.000000	7.46754e-19	1.000000

0.100000000E-03 Pa, 3000.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.15309e-12	(1.00)	1.53862e-13	(1.00)

species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.866566	0.866566	0.00000	0.00000
PhCH2CCH+H	0.0611725	0.927738	0.458447	0.458447
Indene+H	0.0342672	0.962006	0.256810	0.715257
PhCHCCH2+H	0.0154790	0.977485	0.116005	0.831262
Ph+Allene	0.0132660	0.990751	0.0994201	0.930682
PAH3+H	0.00205938	0.992810	0.0154337	0.946116
PAH9+H	0.00113813	0.993948	0.00852950	0.954645
PAH7+H	0.000866135	0.994814	0.00649110	0.961136
rad19anti	0.000812999	0.995627	0.00609288	0.967229
rad38	0.000693215	0.996321	0.00519518	0.972424
rad30	0.000455427	0.996776	0.00341312	0.975838
rad50	0.000445147	0.997221	0.00333608	0.979174
Ph+MeAc	0.000411378	0.997633	0.00308300	0.982257
PhCCH+CH3	0.000319072	0.997952	0.00239123	0.984648
rad39	0.000311351	0.998263	0.00233337	0.986981
rad35	0.000303822	0.998567	0.00227694	0.989258
rad46	0.000258929	0.998826	0.00194050	0.991199
rad51	0.000229661	0.999055	0.00172116	0.992920
rad59	0.000160966	0.999216	0.00120633	0.994126
rad67	0.000132859	0.999349	0.000995686	0.995122
PhCCCH3+H	0.000117527	0.999467	0.000880786	0.996003
rad60syn	9.03378e-05	0.999557	0.000677021	0.996680
PAH10+CH3	6.53522e-05	0.999622	0.000489771	0.997169
rad60anti	6.52879e-05	0.999688	0.000489289	0.997659
rad52	5.15998e-05	0.999739	0.000386706	0.998045

rad19syn	5.01057e-05	0.999789	0.000375508	0.998421
rad71	4.45158e-05	0.999834	0.000333616	0.998755
rad58	3.61220e-05	0.999870	0.000270710	0.999025
PAH1+H	2.86271e-05	0.999899	0.000214541	0.999240
PhcycC3H3_A+H	2.34369e-05	0.999922	0.000175644	0.999415
rad73	2.07080e-05	0.999943	0.000155192	0.999571
rad70	1.26564e-05	0.999955	9.48509e-05	0.999666
rad37	1.18404e-05	0.999967	8.87361e-05	0.999754
rad54	7.74183e-06	0.999975	5.80198e-05	0.999812
rad65	5.71876e-06	0.999981	4.28583e-05	0.999855
PAH8+H	4.80152e-06	0.999986	3.59842e-05	0.999891
rad34	4.57469e-06	0.999990	3.42843e-05	0.999925
rad72	4.05904e-06	0.999994	3.04198e-05	0.999956
rad68syn	8.44302e-07	0.999995	6.32747e-06	0.999962
rad55	7.96394e-07	0.999996	5.96844e-06	0.999968
rad64	7.49015e-07	0.999997	5.61336e-06	0.999974
rad56	7.20451e-07	0.999997	5.39929e-06	0.999979
rad68anti	5.39463e-07	0.999998	4.04291e-06	0.999983
rad53	5.23143e-07	0.999998	3.92061e-06	0.999987
rad40syn	4.40707e-07	0.999999	3.30280e-06	0.999990
rad62	3.72784e-07	0.999999	2.79376e-06	0.999993
rad61	3.22478e-07	0.999999	2.41676e-06	0.999996
rad40anti	3.14359e-07	1.000000	2.35591e-06	0.999998
rad43	1.94896e-07	1.000000	1.46061e-06	0.999999
rad42	5.98145e-08	1.000000	4.48269e-07	1.000000
rad41	3.19484e-08	1.000000	2.39432e-07	1.000000
rad23	2.31289e-14	1.000000	1.73336e-13	1.000000
rad6	1.55221e-14	1.000000	1.16328e-13	1.000000
rad45	6.79932e-15	1.000000	5.09564e-14	1.000000
rad9	5.80396e-15	1.000000	4.34968e-14	1.000000
rad20	5.61879e-15	1.000000	4.21090e-14	1.000000
rad22	2.56938e-15	1.000000	1.92558e-14	1.000000
rad21	2.52565e-15	1.000000	1.89281e-14	1.000000
rad11	1.59314e-15	1.000000	1.19395e-14	1.000000
rad36	1.27660e-15	1.000000	9.56726e-15	1.000000
rad18	7.69597e-16	1.000000	5.76761e-15	1.000000
rad15	4.64778e-16	1.000000	3.48320e-15	1.000000
rad7	3.48761e-16	1.000000	2.61373e-15	1.000000
rad8	2.23533e-16	1.000000	1.67523e-15	1.000000
rad28	2.06054e-16	1.000000	1.54423e-15	1.000000
rad24	1.60028e-16	1.000000	1.19931e-15	1.000000
rad12	1.40784e-16	1.000000	1.05508e-15	1.000000
rad26	4.93659e-17	1.000000	3.69964e-16	1.000000
rad47	4.90428e-17	1.000000	3.67543e-16	1.000000
rad13	4.47289e-17	1.000000	3.35213e-16	1.000000
rad10	1.80935e-17	1.000000	1.35599e-16	1.000000
rad25	8.60189e-18	1.000000	6.44654e-17	1.000000
rad33	3.44368e-18	1.000000	2.58081e-17	1.000000
rad5	2.09687e-18	1.000000	1.57146e-17	1.000000
rad2	1.43964e-18	1.000000	1.07891e-17	1.000000
rad1	6.33132e-19	1.000000	4.74490e-18	1.000000
rad14	1.40237e-19	1.000000	1.05099e-18	1.000000
rad3	1.21910e-19	1.000000	9.13637e-19	1.000000
rad27	8.01837e-20	1.000000	6.00923e-19	1.000000
rad4	7.24205e-20	1.000000	5.42743e-19	1.000000

0.100000000E-03 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.58309e-12 (1.00)	2.28795e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.855476	0.855476	0.00000	0.00000
PhCH2CCH+H	0.0734301	0.928906	0.508082	0.508082
Indene+H	0.0278643	0.956770	0.192800	0.700882
PhCHCCH2+H	0.0183610	0.975131	0.127045	0.827927
Ph+Allene	0.0145940	0.989725	0.100980	0.928907
PAH3+H	0.00243645	0.992162	0.0168585	0.945765
PAH9+H	0.00110339	0.993265	0.00763468	0.953400
PAH7+H	0.000986571	0.994252	0.00682634	0.960227
rad19anti	0.000808911	0.995061	0.00559707	0.965824
rad38	0.000686670	0.995747	0.00475125	0.970575
rad50	0.000518179	0.996266	0.00358542	0.974160
Ph+MeAc	0.000489465	0.996755	0.00338674	0.977547
rad30	0.000447972	0.997203	0.00309964	0.980647
PhCCH+CH3	0.000378211	0.997581	0.00261694	0.983264
rad39	0.000374434	0.997956	0.00259081	0.985854
rad35	0.000323023	0.998279	0.00223508	0.988089

rad51	0.000289245	0.998568	0.00200136	0.990091
rad46	0.000266714	0.998835	0.00184546	0.991936
rad59	0.000184695	0.999019	0.00127795	0.993214
rad67	0.000159865	0.999179	0.00110614	0.994320
PhCCCH3+H	0.000140367	0.999320	0.000971235	0.995292
rad60syn	9.79791e-05	0.999418	0.000677943	0.995970
PAH10+CH3	8.26142e-05	0.999500	0.000571630	0.996541
rad71	7.28074e-05	0.999573	0.000503773	0.997045
rad60anti	7.14060e-05	0.999644	0.000494077	0.997539
rad19syn	7.13406e-05	0.999716	0.000493624	0.998033
rad52	6.19533e-05	0.999778	0.000428671	0.998461
rad58	4.68388e-05	0.999825	0.000324090	0.998785
PAH1+H	3.98744e-05	0.999864	0.000275902	0.999061
rad73	3.17350e-05	0.999896	0.000219583	0.999281
PhcycC3H3_A+H	2.77967e-05	0.999924	0.000192333	0.999473
rad70	1.68825e-05	0.999941	0.000116814	0.999590
rad37	1.28499e-05	0.999954	8.89115e-05	0.999679
PAH8+H	8.50457e-06	0.999962	5.88453e-05	0.999738
rad54	8.38235e-06	0.999971	5.79997e-05	0.999796
rad72	7.52648e-06	0.999978	5.20777e-05	0.999848
rad65	7.06074e-06	0.999985	4.88551e-05	0.999897
rad34	6.39568e-06	0.999992	4.42534e-05	0.999941
rad68syn	1.34606e-06	0.999993	9.31375e-06	0.999950
rad64	1.07438e-06	0.999994	7.43389e-06	0.999958
rad56	9.79690e-07	0.999995	6.77873e-06	0.999965
rad55	8.93999e-07	0.999996	6.18581e-06	0.999971
rad68anti	8.59058e-07	0.999997	5.94405e-06	0.999977
rad40syn	7.44327e-07	0.999997	5.15020e-06	0.999982
rad53	6.73265e-07	0.999998	4.65850e-06	0.999986
rad40anti	5.40357e-07	0.999999	3.73887e-06	0.999990
rad62	5.25220e-07	0.999999	3.63414e-06	0.999994
rad61	4.70536e-07	1.000000	3.25576e-06	0.999997
rad43	2.53715e-07	1.000000	1.75552e-06	0.999999
rad42	9.14458e-08	1.000000	6.32737e-07	0.999999
rad41	4.57450e-08	1.000000	3.16522e-07	1.000000
rad23	1.04499e-14	1.000000	7.23055e-14	1.000000
rad6	5.36039e-15	1.000000	3.70900e-14	1.000000
rad20	3.83869e-15	1.000000	2.65609e-14	1.000000
rad45	3.66334e-15	1.000000	2.53476e-14	1.000000
rad9	3.38631e-15	1.000000	2.34307e-14	1.000000
rad21	1.66173e-15	1.000000	1.14980e-14	1.000000
rad22	1.30850e-15	1.000000	9.05386e-15	1.000000
rad11	9.80868e-16	1.000000	6.78688e-15	1.000000
rad36	6.94864e-16	1.000000	4.80795e-15	1.000000
rad18	4.51591e-16	1.000000	3.12468e-15	1.000000
rad15	2.91858e-16	1.000000	2.01944e-15	1.000000
rad8	2.15817e-16	1.000000	1.49330e-15	1.000000
rad7	1.57418e-16	1.000000	1.08922e-15	1.000000
rad28	1.13309e-16	1.000000	7.84015e-16	1.000000
rad24	1.10778e-16	1.000000	7.66503e-16	1.000000
rad12	1.07284e-16	1.000000	7.42324e-16	1.000000
rad47	6.03541e-17	1.000000	4.17606e-16	1.000000
rad26	3.18194e-17	1.000000	2.20167e-16	1.000000
rad13	2.21089e-17	1.000000	1.52978e-16	1.000000
rad10	1.23692e-17	1.000000	8.55860e-17	1.000000
rad25	6.72544e-18	1.000000	4.65351e-17	1.000000
rad5	2.01292e-18	1.000000	1.39279e-17	1.000000
rad33	1.94932e-18	1.000000	1.34878e-17	1.000000
rad2	9.43062e-19	1.000000	6.52529e-18	1.000000
rad1	4.63897e-19	1.000000	3.20983e-18	1.000000
rad14	1.20218e-19	1.000000	8.31821e-19	1.000000
rad27	6.78840e-20	1.000000	4.69707e-19	1.000000
rad3	5.91634e-20	1.000000	4.09367e-19	1.000000
rad4	3.41807e-20	1.000000	2.36505e-19	1.000000

0.100000000E-03 Pa, 3500.00000 K

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

Total | 2.10046e-12 (1.00) | 3.29923e-13 (1.00)

species | PYtrue | Cumul | PYeffective | Cumul

Benzyl+C2H2 | 0.842928 | 0.842928 | 0.00000 | 0.00000
PhCH2CCH+H | 0.0857241 | 0.928652 | 0.545762 | 0.545762
Indene+H | 0.0229287 | 0.951581 | 0.145976 | 0.691738
PhCHCCH2+H | 0.0212218 | 0.972803 | 0.135108 | 0.826846
Ph+Allene | 0.0160719 | 0.988874 | 0.102322 | 0.929168
PAH3+H | 0.00277080 | 0.991645 | 0.0176403 | 0.946808
PAH7+H | 0.00108547 | 0.992731 | 0.00691065 | 0.953719

PAH9+H	0.00103824	0.993769	0.00660998	0.960329
rad19anti	0.000786012	0.994555	0.00500415	0.965333
rad38	0.000657575	0.995213	0.00418645	0.969520
rad50	0.000571322	0.995784	0.00363732	0.973157
Ph+MeAc	0.000559758	0.996344	0.00356370	0.976721
PhCCH+CH3	0.000466753	0.996810	0.00297158	0.979692
rad30	0.000434295	0.997245	0.00276494	0.982457
rad39	0.000426787	0.997672	0.00271714	0.985174
rad51	0.000340822	0.998012	0.00216985	0.987344
rad35	0.000335221	0.998348	0.00213419	0.989478
rad46	0.000264413	0.998612	0.00168339	0.991162
rad59	0.000204435	0.998816	0.00130154	0.992463
rad67	0.000182834	0.998999	0.00116401	0.993627
PhCCCH3+H	0.000163685	0.999163	0.00104210	0.994669
rad71	0.000107601	0.999271	0.000685042	0.995354
rad60syn	0.000103349	0.999374	0.000657969	0.996012
PAH10+CH3	9.81181e-05	0.999472	0.000624669	0.996637
rad19syn	9.79725e-05	0.999570	0.000623742	0.997261
rad60anti	7.58697e-05	0.999646	0.000483025	0.997744
rad52	7.00217e-05	0.999716	0.000445793	0.998190
rad58	5.76196e-05	0.999773	0.000366835	0.998556
PAH1+H	5.20523e-05	0.999826	0.000331391	0.998888
rad73	4.43107e-05	0.999870	0.000282104	0.999170
PhcycC3H3_A+H	3.20633e-05	0.999902	0.000204131	0.999374
rad70	2.14708e-05	0.999923	0.000136694	0.999511
PAH8+H	1.37725e-05	0.999937	8.76827e-05	0.999598
rad37	1.33235e-05	0.999950	8.48243e-05	0.999683
rad72	1.23923e-05	0.999963	7.88958e-05	0.999762
rad54	8.98058e-06	0.999972	5.71749e-05	0.999819
rad34	8.46717e-06	0.999980	5.39063e-05	0.999873
rad65	8.19015e-06	0.999988	5.21426e-05	0.999925
rad68syn	1.99232e-06	0.999990	1.26841e-05	0.999938
rad64	1.43496e-06	0.999992	9.13568e-06	0.999947
rad56	1.27412e-06	0.999993	8.11171e-06	0.999955
rad68anti	1.27030e-06	0.999994	8.08736e-06	0.999963
rad40syn	1.15716e-06	0.999996	7.36708e-06	0.999971
rad55	9.87613e-07	0.999997	6.28764e-06	0.999977
rad40anti	8.52741e-07	0.999997	5.42898e-06	0.999982
rad53	8.35966e-07	0.999998	5.32218e-06	0.999988
rad62	6.97360e-07	0.999999	4.43975e-06	0.999992
rad61	6.32568e-07	1.000000	4.02725e-06	0.999996
rad43	3.12012e-07	1.000000	1.98643e-06	0.999998
rad42	1.30122e-07	1.000000	8.28424e-07	0.999999
rad41	6.11800e-08	1.000000	3.89503e-07	0.999999
rad23	5.04703e-15	1.000000	3.21319e-14	0.999999
rad20	2.74120e-15	1.000000	1.74519e-14	0.999999
rad6	2.16489e-15	1.000000	1.37828e-14	0.999999
rad45	2.06179e-15	1.000000	1.31264e-14	0.999999
rad9	2.04378e-15	1.000000	1.30117e-14	0.999999
rad21	1.14208e-15	1.000000	7.27102e-15	0.999999
rad22	7.18863e-16	1.000000	4.57664e-15	0.999999
rad11	6.60787e-16	1.000000	4.20690e-15	0.999999
rad36	3.94212e-16	1.000000	2.50975e-15	0.999999
rad18	2.79268e-16	1.000000	1.77796e-15	0.999999
rad8	2.04865e-16	1.000000	1.30427e-15	0.999999
rad15	1.87635e-16	1.000000	1.19458e-15	0.999999
rad12	8.20876e-17	1.000000	5.22611e-16	0.999999
rad7	7.97899e-17	1.000000	5.07982e-16	0.999999
rad24	7.82702e-17	1.000000	4.98307e-16	0.999999
rad47	6.94994e-17	1.000000	4.42468e-16	0.999999
rad28	6.80175e-17	1.000000	4.33034e-16	0.999999
rad26	2.07753e-17	1.000000	1.32266e-16	0.999999
rad13	1.21832e-17	1.000000	7.75643e-17	0.999999
rad10	8.52258e-18	1.000000	5.42590e-17	0.999999
rad25	5.44463e-18	1.000000	3.46632e-17	0.999999
rad5	1.92675e-18	1.000000	1.22667e-17	0.999999
rad33	1.19819e-18	1.000000	7.62829e-18	0.999999
rad2	6.44548e-19	1.000000	4.10352e-18	0.999999
rad1	3.47913e-19	1.000000	2.21499e-18	0.999999
rad14	1.06170e-19	1.000000	6.75934e-19	0.999999
rad27	5.69300e-20	1.000000	3.62445e-19	0.999999
rad3	3.26663e-20	1.000000	2.07970e-19	0.999999
rad4	1.84742e-20	1.000000	1.17616e-19	0.999999

0.100000000E-03 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.70978e-12 (1.00)	4.61708e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829614	0.829614	0.00000	0.00000
PhCH2CCH+H	0.0978316	0.927446	0.574175	0.574175
PhCHCCH2+H	0.0240141	0.951460	0.140939	0.715114
Indene+H	0.0190788	0.970538	0.111974	0.827088
Ph+Allene	0.0176550	0.988193	0.103617	0.930705
PAH3+H	0.00305565	0.991249	0.0179337	0.948639
PAH7+H	0.00116197	0.992411	0.00681959	0.955458
PAH9+H	0.000955042	0.993366	0.00560515	0.961063
rad19anti	0.000750872	0.994117	0.00440688	0.965470
Ph+MeAc	0.000618509	0.994736	0.00363004	0.969100
rad38	0.000613193	0.995349	0.00359884	0.972699
rad50	0.000603635	0.995952	0.00354274	0.976242
PhCCH+CH3	0.000581835	0.996534	0.00341479	0.979657
rad39	0.000465790	0.997000	0.00273373	0.982390
rad30	0.000416539	0.997417	0.00244467	0.984835
rad51	0.000380994	0.997798	0.00223606	0.987071
rad35	0.000341508	0.998139	0.00200431	0.989075
rad46	0.000254425	0.998393	0.00149322	0.990569
rad59	0.000220084	0.998614	0.00129168	0.991860
rad67	0.000201013	0.998815	0.00117975	0.993040
PhCCCH3+H	0.000187990	0.999003	0.00110331	0.994143
rad71	0.000146780	0.999149	0.000861455	0.995005
rad19syn	0.000129261	0.999279	0.000758633	0.995764
PAH10+CH3	0.000111172	0.999390	0.000652468	0.996416
rad60syn	0.000106707	0.999496	0.000626263	0.997042
rad60anti	7.88382e-05	0.999575	0.000462703	0.997505
rad52	7.54521e-05	0.999651	0.000442829	0.997948
rad58	6.80261e-05	0.999719	0.000399246	0.998347
PAH1+H	6.45813e-05	0.999783	0.000379028	0.998726
rad73	5.74878e-05	0.999841	0.000337397	0.999063
PhcycC3H3_A+H	3.61213e-05	0.999877	0.000211996	0.999275
rad70	2.62309e-05	0.999903	0.000153949	0.999429
PAH8+H	2.07420e-05	0.999924	0.000121735	0.999551
rad72	1.85748e-05	0.999943	0.000109016	0.999660
rad37	1.33636e-05	0.999956	7.84314e-05	0.999739
rad34	1.07116e-05	0.999967	6.28665e-05	0.999801
rad54	9.53969e-06	0.999976	5.59886e-05	0.999857
rad65	9.05125e-06	0.999985	5.31219e-05	0.999911
rad68syn	2.77520e-06	0.999988	1.62877e-05	0.999927
rad64	1.81236e-06	0.999990	1.06367e-05	0.999938
rad68anti	1.76807e-06	0.999992	1.03768e-05	0.999948
rad40syn	1.68193e-06	0.999993	9.87130e-06	0.999958
rad56	1.59874e-06	0.999995	9.38301e-06	0.999967
rad40anti	1.25564e-06	0.999996	7.36935e-06	0.999975
rad55	1.07703e-06	0.999997	6.32112e-06	0.999981
rad53	1.00840e-06	0.999998	5.91834e-06	0.999987
rad62	8.81786e-07	0.999999	5.17522e-06	0.999992
rad61	7.98455e-07	1.000000	4.68615e-06	0.999997
rad43	3.67979e-07	1.000000	2.15967e-06	0.999999
rad42	1.74775e-07	1.000000	1.02576e-06	1.000000
rad41	7.77074e-08	1.000000	4.56066e-07	1.000000
rad23	2.57540e-15	1.000000	1.51150e-14	1.000000
rad20	2.02983e-15	1.000000	1.19131e-14	1.000000
rad9	1.27461e-15	1.000000	7.48072e-15	1.000000
rad45	1.20303e-15	1.000000	7.06059e-15	1.000000
rad6	9.99972e-16	1.000000	5.86885e-15	1.000000
rad21	8.13805e-16	1.000000	4.77623e-15	1.000000
rad11	4.75772e-16	1.000000	2.79231e-15	1.000000
rad22	4.20504e-16	1.000000	2.46795e-15	1.000000
rad36	2.31395e-16	1.000000	1.35806e-15	1.000000
rad8	1.91572e-16	1.000000	1.12434e-15	1.000000
rad18	1.80283e-16	1.000000	1.05809e-15	1.000000
rad15	1.23493e-16	1.000000	7.24781e-16	1.000000
rad47	7.59707e-17	1.000000	4.45873e-16	1.000000
rad12	6.32118e-17	1.000000	3.70991e-16	1.000000
rad24	5.63439e-17	1.000000	3.30683e-16	1.000000
rad7	4.44254e-17	1.000000	2.60733e-16	1.000000
rad28	4.31080e-17	1.000000	2.53001e-16	1.000000
rad26	1.37681e-17	1.000000	8.08051e-17	1.000000
rad13	7.33173e-18	1.000000	4.30300e-17	1.000000
rad10	5.95274e-18	1.000000	3.49367e-17	1.000000
rad25	4.50617e-18	1.000000	2.64468e-17	1.000000
rad5	1.84428e-18	1.000000	1.08241e-17	1.000000
rad33	7.87849e-19	1.000000	4.62390e-18	1.000000
rad2	4.60631e-19	1.000000	2.70345e-18	1.000000
rad1	2.64748e-19	1.000000	1.55381e-18	1.000000
rad14	9.45606e-20	1.000000	5.54977e-19	1.000000
rad27	4.76374e-20	1.000000	2.79584e-19	1.000000

rad3	1.99268e-20	1.00000	1.16951e-19	1.00000
rad4	1.11169e-20	1.00000	6.52453e-20	1.00000

0.100000000E-03 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28297e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.816017	0.816017	0.00000	0.00000
PhCH2CCH+H	0.109584	0.925601	0.595618	0.595618
PhCHCCH2+H	0.0267098	0.952311	0.145175	0.740793
Ph+Allene	0.0193046	0.971615	0.104926	0.845719
Indene+H	0.0160484	0.987664	0.0872277	0.932947
PAH3+H	0.00329013	0.990954	0.0178828	0.950829
PAH7+H	0.00121791	0.992172	0.00661968	0.957449
PAH9+H	0.000864009	0.993036	0.00469613	0.962145
PhCCH+CH3	0.000720156	0.993756	0.00391424	0.966060
rad19anti	0.000708493	0.994464	0.00385085	0.969910
Ph+MeAc	0.000663934	0.995128	0.00360866	0.973519
rad50	0.000616859	0.995745	0.00335280	0.976872
rad38	0.000560144	0.996305	0.00304454	0.979916
rad39	0.000491035	0.996796	0.00266891	0.982585
rad51	0.000408498	0.997205	0.00222030	0.984806
rad30	0.000396478	0.997601	0.00215497	0.986961
rad35	0.000343096	0.997945	0.00186482	0.988825
rad46	0.000239253	0.998184	0.00130041	0.990126
rad59	0.000231903	0.998416	0.00126046	0.991386
rad67	0.000214260	0.998630	0.00116456	0.992551
PhCCCH3+H	0.000213580	0.998844	0.00116087	0.993712
rad71	0.000187844	0.999031	0.00102098	0.994733
rad19syn	0.000163941	0.999195	0.000891067	0.995624
PAH10+CH3	0.000121536	0.999317	0.000660582	0.996284
rad60syn	0.000108396	0.999425	0.000589161	0.996873
rad60anti	8.05427e-05	0.999506	0.000437772	0.997311
rad52	7.82960e-05	0.999584	0.000425560	0.997737
rad58	7.77572e-05	0.999662	0.000422632	0.998159
PAH1+H	7.70001e-05	0.999739	0.000418517	0.998578
rad73	7.03552e-05	0.999809	0.000382400	0.998960
PhcycC3H3_A+H	3.98813e-05	0.999849	0.000216766	0.999177
rad70	3.09908e-05	0.999880	0.000168444	0.999346
PAH8+H	2.94355e-05	0.999910	0.000159990	0.999506
rad72	2.58284e-05	0.999935	0.000140384	0.999646
rad37	1.30848e-05	0.999948	7.11194e-05	0.999717
rad34	1.30497e-05	0.999961	7.09289e-05	0.999788
rad54	1.00584e-05	0.999972	5.46703e-05	0.999843
rad65	9.63686e-06	0.999981	5.23790e-05	0.999895
rad68syn	3.67778e-06	0.999985	1.99898e-05	0.999915
rad68anti	2.34154e-06	0.999987	1.27269e-05	0.999928
rad40syn	2.31359e-06	0.999990	1.25750e-05	0.999940
rad64	2.19077e-06	0.999992	1.19074e-05	0.999952
rad56	1.94741e-06	0.999994	1.05847e-05	0.999963
rad40anti	1.74691e-06	0.999995	9.49492e-06	0.999972
rad53	1.18744e-06	0.999997	6.45406e-06	0.999979
rad55	1.16170e-06	0.999998	6.31418e-06	0.999985
rad62	1.07271e-06	0.999999	5.83046e-06	0.999991
rad61	9.59661e-07	1.000000	5.21602e-06	0.999996
rad43	4.20278e-07	1.00000	2.28433e-06	0.999998
rad42	2.24298e-07	1.00000	1.21912e-06	1.000000
rad41	9.47630e-08	1.00000	5.15063e-07	1.00000
rad20	1.54922e-15	1.00000	8.42046e-15	1.00000
rad23	1.37698e-15	1.00000	7.48425e-15	1.00000
rad9	8.19831e-16	1.00000	4.45600e-15	1.00000
rad45	7.23859e-16	1.00000	3.93437e-15	1.00000
rad21	5.97853e-16	1.00000	3.24950e-15	1.00000
rad6	5.16625e-16	1.00000	2.80800e-15	1.00000
rad11	3.59960e-16	1.00000	1.95648e-15	1.00000
rad22	2.59353e-16	1.00000	1.40965e-15	1.00000
rad8	1.76788e-16	1.00000	9.60889e-16	1.00000
rad36	1.39804e-16	1.00000	7.59876e-16	1.00000
rad18	1.20670e-16	1.00000	6.55872e-16	1.00000
rad15	8.31242e-17	1.00000	4.51803e-16	1.00000
rad47	7.97227e-17	1.00000	4.33315e-16	1.00000
rad12	4.90407e-17	1.00000	2.66550e-16	1.00000
rad24	4.12849e-17	1.00000	2.24395e-16	1.00000
rad28	2.83837e-17	1.00000	1.54273e-16	1.00000
rad7	2.66558e-17	1.00000	1.44882e-16	1.00000
rad26	9.27644e-18	1.00000	5.04200e-17	1.00000

rad13	4.73269e-18	1.00000	2.57235e-17	1.00000
rad10	4.23861e-18	1.00000	2.30380e-17	1.00000
rad25	3.78502e-18	1.00000	2.05726e-17	1.00000
rad5	1.76545e-18	1.00000	9.59571e-18	1.00000
rad33	5.47163e-19	1.00000	2.97398e-18	1.00000
rad2	3.45976e-19	1.00000	1.88047e-18	1.00000
rad1	2.03741e-19	1.00000	1.10739e-18	1.00000
rad14	8.43868e-20	1.00000	4.58665e-19	1.00000
rad27	3.99728e-20	1.00000	2.17263e-19	1.00000
rad3	1.31339e-20	1.00000	7.13863e-20	1.00000
rad4	7.27353e-21	1.00000	3.95336e-20	1.00000

0.100000000E-04 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999818	0.999818	0.999819	0.999819
rad6	0.000181132	0.999999	0.000181132	1.00000
Benzyl+C2H2	8.11918e-07	1.000000	0.00000	1.00000
rad2	1.34027e-08	1.000000	1.34027e-08	1.00000
rad7	1.31185e-08	1.000000	1.31185e-08	1.00000
rad11	3.22400e-09	1.000000	3.22401e-09	1.00000
rad1	8.47083e-10	1.000000	8.47084e-10	1.00000
rad10	6.74317e-10	1.000000	6.74317e-10	1.00000
rad3	1.88355e-10	1.000000	1.88356e-10	1.00000
rad4	9.52235e-11	1.000000	9.52236e-11	1.00000
rad13	7.26187e-11	1.000000	7.26188e-11	1.00000
rad23	2.32530e-13	1.000000	2.32530e-13	1.00000
rad33	1.37095e-13	1.000000	1.37095e-13	1.00000
rad20	1.15882e-13	1.000000	1.15882e-13	1.00000
rad21	7.22725e-14	1.000000	7.22725e-14	1.00000
rad45	1.63379e-15	1.000000	1.63379e-15	1.00000
rad28	1.45378e-15	1.000000	1.45378e-15	1.00000
rad22	7.02086e-16	1.000000	7.02087e-16	1.00000
rad18	5.53655e-16	1.000000	5.53655e-16	1.00000
rad26	3.80663e-16	1.000000	3.80664e-16	1.00000
rad35	2.53479e-16	1.000000	2.53480e-16	1.00000
rad36	1.01772e-16	1.000000	1.01772e-16	1.00000
PAH9+H	1.65579e-17	1.000000	1.65579e-17	1.00000
rad27	1.08081e-18	1.000000	1.08081e-18	1.00000
rad31	2.44024e-19	1.000000	2.44024e-19	1.00000
PhCHCCH2+H	6.79922e-20	1.000000	6.79922e-20	1.00000
rad38	3.52836e-20	1.000000	3.52836e-20	1.00000
rad30	2.90207e-20	1.000000	2.90207e-20	1.00000
PhCCH+CH3	8.23159e-21	1.000000	8.23160e-21	1.00000
rad24	2.38693e-21	1.000000	2.38693e-21	1.00000
PhCCH3+H	1.75885e-21	1.000000	1.75885e-21	1.00000
rad25	1.14506e-21	1.000000	1.14506e-21	1.00000
rad14	2.13237e-22	1.000000	2.13237e-22	1.00000
rad15	5.30521e-23	1.000000	5.30522e-23	1.00000
rad8	6.01180e-26	1.000000	6.01180e-26	1.00000
rad9	4.67099e-28	1.000000	4.67100e-28	1.00000
PAH7+H	1.05890e-28	1.000000	1.05890e-28	1.00000
rad46	6.49249e-29	1.000000	6.49250e-29	1.00000
Ph+MeAc	1.47782e-29	1.000000	1.47782e-29	1.00000
rad12	4.34544e-30	1.000000	4.34545e-30	1.00000
rad39	3.62477e-31	1.000000	3.62478e-31	1.00000
Ph+Allene	1.29369e-33	1.000000	1.29369e-33	1.00000
rad60syn	1.07592e-37	1.000000	1.07592e-37	1.00000
rad60anti	1.40236e-39	1.000000	1.40236e-39	1.00000
PhCH2CCH+H	3.54547e-41	1.000000	3.54548e-41	1.00000
rad37	3.37384e-42	1.000000	3.37385e-42	1.00000
rad5	2.22388e-45	1.000000	2.22388e-45	1.00000
PAH3+H	4.17909e-50	1.000000	4.17910e-50	1.00000
rad59	2.23615e-50	1.000000	2.23615e-50	1.00000
rad50	8.77638e-51	1.000000	8.77639e-51	1.00000
rad19syn	3.69811e-59	1.000000	3.69811e-59	1.00000
rad52	4.43411e-63	1.000000	4.43412e-63	1.00000
rad54	4.34208e-64	1.000000	4.34208e-64	1.00000
PAH10+CH3	2.83444e-64	1.000000	2.83444e-64	1.00000
rad43	6.53020e-65	1.000000	6.53021e-65	1.00000
rad62	1.95898e-67	1.000000	1.95899e-67	1.00000
rad51	2.18690e-70	1.000000	2.18690e-70	1.00000
rad70	2.37094e-73	1.000000	2.37094e-73	1.00000
PhcycC3H3_A+H	1.00473e-73	1.000000	1.00473e-73	1.00000
rad55	5.40973e-74	1.000000	5.40973e-74	1.00000

rad65	1.47774e-75	1.000000	1.47774e-75	1.00000
rad58	3.37699e-77	1.000000	3.37699e-77	1.00000
PAH1+H	4.57423e-79	1.000000	4.57423e-79	1.00000
rad34	3.00992e-81	1.000000	3.00992e-81	1.00000
rad42	2.15021e-85	1.000000	2.15021e-85	1.00000
rad41	2.69892e-86	1.000000	2.69892e-86	1.00000
rad47	8.30127e-89	1.000000	8.30128e-89	1.00000

0.100000000E-04 Pa, 30.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.15918e-108 (1.00)	1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999816	0.999816	0.999817	0.999817
rad6	0.000182895	0.999999	0.000182895	1.000000
Benzyl+C2H2	1.04104e-06	1.000000	0.00000	1.000000
rad2	2.32677e-08	1.000000	2.32677e-08	1.000000
rad7	1.32179e-08	1.000000	1.32179e-08	1.000000
rad11	3.23927e-09	1.000000	3.23927e-09	1.000000
rad1	1.47143e-09	1.000000	1.47143e-09	1.000000
rad10	1.17603e-09	1.000000	1.17603e-09	1.000000
rad3	2.29528e-10	1.000000	2.29528e-10	1.000000
rad4	1.16055e-10	1.000000	1.16056e-10	1.000000
rad13	7.33586e-11	1.000000	7.33587e-11	1.000000
rad33	1.38520e-13	1.000000	1.38520e-13	1.000000
rad20	5.66188e-14	1.000000	5.66189e-14	1.000000
rad21	3.53170e-14	1.000000	3.53170e-14	1.000000
rad23	2.80552e-14	1.000000	2.80552e-14	1.000000
rad35	3.39739e-15	1.000000	3.39739e-15	1.000000
rad28	3.06041e-15	1.000000	3.06042e-15	1.000000
rad26	7.78496e-16	1.000000	7.78497e-16	1.000000
rad18	2.68517e-16	1.000000	2.68518e-16	1.000000
rad45	1.88673e-16	1.000000	1.88673e-16	1.000000
rad22	1.61965e-16	1.000000	1.61966e-16	1.000000
PAH9+H	1.41017e-17	1.000000	1.41017e-17	1.000000
rad36	1.17493e-17	1.000000	1.17493e-17	1.000000
rad27	1.30441e-18	1.000000	1.30441e-18	1.000000
rad31	3.98501e-19	1.000000	3.98502e-19	1.000000
PhCHCCH2+H	9.57164e-20	1.000000	9.57165e-20	1.000000
rad30	6.09246e-20	1.000000	6.09246e-20	1.000000
rad38	3.20976e-20	1.000000	3.20977e-20	1.000000
PhCCH+CH3	9.36270e-21	1.000000	9.36271e-21	1.000000
PhCCCH3+H	1.85525e-21	1.000000	1.85525e-21	1.000000
rad24	1.16467e-21	1.000000	1.16467e-21	1.000000
rad25	1.09671e-21	1.000000	1.09671e-21	1.000000
rad14	1.87767e-22	1.000000	1.87768e-22	1.000000
rad15	8.90850e-23	1.000000	8.90851e-23	1.000000
rad8	3.64503e-26	1.000000	3.64504e-26	1.000000
rad9	2.06185e-28	1.000000	2.06186e-28	1.000000
rad46	6.17989e-29	1.000000	6.17990e-29	1.000000
PAH7+H	4.16854e-29	1.000000	4.16855e-29	1.000000
Ph+MeAc	4.86748e-30	1.000000	4.86749e-30	1.000000
rad12	1.59345e-30	1.000000	1.59345e-30	1.000000
rad39	1.16800e-31	1.000000	1.16800e-31	1.000000
Ph+Allene	3.26087e-34	1.000000	3.26087e-34	1.000000
rad60syn	2.80669e-38	1.000000	2.80669e-38	1.000000
rad60anti	3.31641e-40	1.000000	3.31641e-40	1.000000
PhCH2CCH+H	7.02412e-42	1.000000	7.02413e-42	1.000000
rad37	6.52363e-43	1.000000	6.52363e-43	1.000000
rad5	4.26517e-46	1.000000	4.26517e-46	1.000000
PAH3+H	7.83887e-51	1.000000	7.83887e-51	1.000000
rad59	4.19534e-51	1.000000	4.19535e-51	1.000000
rad50	1.66212e-51	1.000000	1.66212e-51	1.000000
rad19syn	6.80420e-60	1.000000	6.80421e-60	1.000000
rad52	8.15053e-64	1.000000	8.15054e-64	1.000000
rad54	8.05148e-65	1.000000	8.05149e-65	1.000000
PAH10+CH3	5.25691e-65	1.000000	5.25692e-65	1.000000
rad43	1.21393e-65	1.000000	1.21393e-65	1.000000
rad62	3.66008e-68	1.000000	3.66008e-68	1.000000
rad51	4.07922e-71	1.000000	4.07922e-71	1.000000
rad70	4.50233e-74	1.000000	4.50234e-74	1.000000
PhcycC3H3_A+H	1.91140e-74	1.000000	1.91140e-74	1.000000
rad55	1.02896e-74	1.000000	1.02897e-74	1.000000
rad65	2.78976e-76	1.000000	2.78976e-76	1.000000
rad58	6.43456e-78	1.000000	6.43457e-78	1.000000
PAH1+H	8.83355e-80	1.000000	8.83356e-80	1.000000
rad34	5.85411e-82	1.000000	5.85412e-82	1.000000

rad42	4.23655e-86	1.000000	4.23656e-86	1.000000
rad41	5.35244e-87	1.000000	5.35244e-87	1.000000
rad47	7.94862e-90	1.000000	7.94863e-90	1.000000

0.100000000E-04 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999811	0.999811	0.999813	0.999813
rad6	0.000187190	0.999998	0.000187191	1.000000
Benzyl+C2H2	1.52902e-06	1.000000	0.000000	1.000000
rad2	3.16516e-08	1.000000	3.16516e-08	1.000000
rad7	1.35272e-08	1.000000	1.35272e-08	1.000000
rad11	3.31210e-09	1.000000	3.31211e-09	1.000000
rad1	2.00408e-09	1.000000	2.00408e-09	1.000000
rad10	1.60472e-09	1.000000	1.60472e-09	1.000000
rad3	2.69128e-10	1.000000	2.69128e-10	1.000000
rad4	1.36121e-10	1.000000	1.36121e-10	1.000000
rad13	7.51548e-11	1.000000	7.51550e-11	1.000000
rad33	1.41968e-13	1.000000	1.41968e-13	1.000000
rad35	5.92426e-14	1.000000	5.92426e-14	1.000000
rad20	3.70237e-14	1.000000	3.70237e-14	1.000000
rad21	2.31016e-14	1.000000	2.31016e-14	1.000000
rad23	8.83630e-15	1.000000	8.83631e-15	1.000000
rad28	5.95870e-15	1.000000	5.95871e-15	1.000000
rad26	1.47261e-15	1.000000	1.47261e-15	1.000000
PAH9+H	4.62284e-16	1.000000	4.62284e-16	1.000000
rad18	1.75287e-16	1.000000	1.75288e-16	1.000000
rad22	7.36237e-17	1.000000	7.36238e-17	1.000000
rad45	5.82749e-17	1.000000	5.82750e-17	1.000000
rad36	3.62675e-18	1.000000	3.62676e-18	1.000000
rad27	1.85786e-18	1.000000	1.85786e-18	1.000000
rad31	5.35310e-19	1.000000	5.35311e-19	1.000000
PhCHCCH2+H	1.42078e-19	1.000000	1.42078e-19	1.000000
rad30	1.18653e-19	1.000000	1.18653e-19	1.000000
rad38	6.02494e-20	1.000000	6.02495e-20	1.000000
PhCCH+CH3	1.22052e-20	1.000000	1.22052e-20	1.000000
PhCCCH3+H	2.31453e-21	1.000000	2.31453e-21	1.000000
rad25	1.35344e-21	1.000000	1.35344e-21	1.000000
rad24	7.83936e-22	1.000000	7.83937e-22	1.000000
rad14	2.17987e-22	1.000000	2.17987e-22	1.000000
rad15	1.48029e-22	1.000000	1.48029e-22	1.000000
rad8	3.42383e-26	1.000000	3.42383e-26	1.000000
rad9	1.69315e-28	1.000000	1.69315e-28	1.000000
rad46	7.26269e-29	1.000000	7.26270e-29	1.000000
PAH7+H	3.25918e-29	1.000000	3.25918e-29	1.000000
Ph+MeAc	3.60256e-30	1.000000	3.60257e-30	1.000000
rad12	1.22016e-30	1.000000	1.22016e-30	1.000000
rad39	8.53128e-32	1.000000	8.53129e-32	1.000000
Ph+Allene	2.22722e-34	1.000000	2.22723e-34	1.000000
rad60syn	1.93312e-38	1.000000	1.93312e-38	1.000000
rad60anti	2.23084e-40	1.000000	2.23084e-40	1.000000
PhCH2CCH+H	4.61891e-42	1.000000	4.61891e-42	1.000000
rad37	4.30563e-43	1.000000	4.30563e-43	1.000000
rad5	2.82622e-46	1.000000	2.82623e-46	1.000000
PAH3+H	5.21984e-51	1.000000	5.21984e-51	1.000000
rad59	2.79305e-51	1.000000	2.79305e-51	1.000000
rad50	1.10150e-51	1.000000	1.10151e-51	1.000000
rad19syn	4.83742e-60	1.000000	4.83742e-60	1.000000
rad52	5.76527e-64	1.000000	5.76528e-64	1.000000
rad54	5.90068e-65	1.000000	5.90069e-65	1.000000
PAH10+CH3	3.89442e-65	1.000000	3.89443e-65	1.000000
rad43	9.00607e-66	1.000000	9.00608e-66	1.000000
rad62	2.75046e-68	1.000000	2.75046e-68	1.000000
rad51	3.04376e-71	1.000000	3.04377e-71	1.000000
rad70	3.51594e-74	1.000000	3.51595e-74	1.000000
PhcycC3H3_A+H	1.49910e-74	1.000000	1.49910e-74	1.000000
rad55	8.06662e-75	1.000000	8.06663e-75	1.000000
rad65	2.14832e-76	1.000000	2.14832e-76	1.000000
rad58	5.06551e-78	1.000000	5.06552e-78	1.000000
PAH1+H	7.20672e-80	1.000000	7.20673e-80	1.000000
rad34	4.82963e-82	1.000000	4.82964e-82	1.000000
rad42	3.61900e-86	1.000000	3.61901e-86	1.000000
rad41	4.70964e-87	1.000000	4.70965e-87	1.000000
rad47	4.33404e-90	1.000000	4.33405e-90	1.000000

0.100000000E-04 Pa, 50.0000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 2.31816e-70 (1.00) 2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999805	0.999805	0.999807	0.999807
rad6	0.000193078	0.999998	0.000193078	1.000000
Benzyl+C2H2	2.26158e-06	1.000000	0.000000	1.000000
rad2	3.93489e-08	1.000000	3.93490e-08	1.000000
rad7	1.39604e-08	1.000000	1.39604e-08	1.000000
rad11	3.41695e-09	1.000000	3.41696e-09	1.000000
rad1	2.49583e-09	1.000000	2.49583e-09	1.000000
rad10	2.00008e-09	1.000000	2.00009e-09	1.000000
rad3	3.07984e-10	1.000000	3.07984e-10	1.000000
rad4	1.55843e-10	1.000000	1.55843e-10	1.000000
rad13	7.76272e-11	1.000000	7.76274e-11	1.000000
rad35	3.19950e-13	1.000000	3.19950e-13	1.000000
rad33	1.46722e-13	1.000000	1.46722e-13	1.000000
rad20	2.70707e-14	1.000000	2.70708e-14	1.000000
rad21	1.68991e-14	1.000000	1.68991e-14	1.000000
rad28	1.25712e-14	1.000000	1.25713e-14	1.000000
PAH9+H	8.83356e-15	1.000000	8.83358e-15	1.000000
rad23	3.98538e-15	1.000000	3.98539e-15	1.000000
rad26	3.03365e-15	1.000000	3.03366e-15	1.000000
rad18	1.28132e-16	1.000000	1.28132e-16	1.000000
rad22	4.27919e-17	1.000000	4.27920e-17	1.000000
rad45	2.59911e-17	1.000000	2.59912e-17	1.000000
rad27	3.16140e-18	1.000000	3.16141e-18	1.000000
rad38	2.41697e-18	1.000000	2.41698e-18	1.000000
rad36	1.61630e-18	1.000000	1.61630e-18	1.000000
rad31	6.67381e-19	1.000000	6.67382e-19	1.000000
rad30	4.22622e-19	1.000000	4.22623e-19	1.000000
PhCHCCH2+H	2.48092e-19	1.000000	2.48092e-19	1.000000
PhCCH+CH3	1.95796e-20	1.000000	1.95796e-20	1.000000
PhCCCH3+H	3.61287e-21	1.000000	3.61287e-21	1.000000
rad25	2.07989e-21	1.000000	2.07989e-21	1.000000
rad24	5.99110e-22	1.000000	5.99112e-22	1.000000
rad14	3.20467e-22	1.000000	3.20468e-22	1.000000
rad15	2.79075e-22	1.000000	2.79076e-22	1.000000
rad8	4.55338e-26	1.000000	4.55339e-26	1.000000
rad9	2.11115e-28	1.000000	2.11116e-28	1.000000
rad46	1.09182e-28	1.000000	1.09182e-28	1.000000
PAH7+H	3.96926e-29	1.000000	3.96927e-29	1.000000
Ph+MeAc	4.32682e-30	1.000000	4.32683e-30	1.000000
rad12	1.48046e-30	1.000000	1.48046e-30	1.000000
rad39	1.01441e-31	1.000000	1.01442e-31	1.000000
Ph+Allene	2.62241e-34	1.000000	2.62241e-34	1.000000
rad60syn	2.27667e-38	1.000000	2.27668e-38	1.000000
rad60anti	2.62803e-40	1.000000	2.62803e-40	1.000000
PhCH2CCH+H	5.60378e-42	1.000000	5.60380e-42	1.000000
rad37	5.32113e-43	1.000000	5.32114e-43	1.000000
rad5	3.52515e-46	1.000000	3.52516e-46	1.000000
PAH3+H	6.58677e-51	1.000000	6.58679e-51	1.000000
rad59	3.52299e-51	1.000000	3.52300e-51	1.000000
rad50	1.37488e-51	1.000000	1.37488e-51	1.000000
rad19syn	6.81474e-60	1.000000	6.81475e-60	1.000000
rad52	8.06042e-64	1.000000	8.06044e-64	1.000000
rad54	8.69738e-65	1.000000	8.69740e-65	1.000000
PAH10+CH3	5.98923e-65	1.000000	5.98924e-65	1.000000
rad43	1.38737e-65	1.000000	1.38737e-65	1.000000
rad62	4.27284e-68	1.000000	4.27285e-68	1.000000
rad51	4.60677e-71	1.000000	4.60678e-71	1.000000
rad70	5.68210e-74	1.000000	5.68211e-74	1.000000
PhcycC3H3_A+H	2.43776e-74	1.000000	2.43776e-74	1.000000
rad55	1.31092e-74	1.000000	1.31092e-74	1.000000
rad65	3.40352e-76	1.000000	3.40353e-76	1.000000
rad58	8.28157e-78	1.000000	8.28159e-78	1.000000
PAH1+H	1.24148e-79	1.000000	1.24148e-79	1.000000
rad34	8.44297e-82	1.000000	8.44299e-82	1.000000
rad42	6.97299e-86	1.000000	6.97301e-86	1.000000
rad41	1.05028e-86	1.000000	1.05029e-86	1.000000
rad47	5.59147e-90	1.000000	5.59148e-90	1.000000

0.100000000E-04 Pa, 60.0000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 8.44107e-61 (1.00) 8.44104e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999797	0.999797	0.999800	0.999800
rad6	0.000199912	0.999997	0.000199913	1.000000
Benzyl+C2H2	3.25364e-06	1.000000	0.000000	1.000000
rad2	4.65106e-08	1.000000	4.65107e-08	1.000000
rad7	1.44675e-08	1.000000	1.44676e-08	1.000000
rad11	3.54066e-09	1.000000	3.54068e-09	1.000000
rad1	2.95646e-09	1.000000	2.95647e-09	1.000000
rad10	2.36925e-09	1.000000	2.36925e-09	1.000000
rad3	3.45565e-10	1.000000	3.45566e-10	1.000000
rad4	1.74955e-10	1.000000	1.74955e-10	1.000000
rad13	8.05132e-11	1.000000	8.05135e-11	1.000000
rad35	9.62944e-13	1.000000	9.62947e-13	1.000000
rad33	1.52282e-13	1.000000	1.52283e-13	1.000000
PAH9+H	6.37571e-14	1.000000	6.37573e-14	1.000000
rad28	3.12848e-14	1.000000	3.12849e-14	1.000000
rad20	2.10364e-14	1.000000	2.10365e-14	1.000000
rad21	1.31397e-14	1.000000	1.31398e-14	1.000000
rad26	7.39485e-15	1.000000	7.39488e-15	1.000000
rad23	2.17065e-15	1.000000	2.17066e-15	1.000000
rad18	9.95898e-17	1.000000	9.95901e-17	1.000000
rad38	7.72569e-17	1.000000	7.72572e-17	1.000000
rad30	2.86532e-17	1.000000	2.86533e-17	1.000000
rad22	2.82373e-17	1.000000	2.82374e-17	1.000000
rad45	1.40531e-17	1.000000	1.40531e-17	1.000000
rad27	6.67993e-18	1.000000	6.67995e-18	1.000000
rad36	8.73190e-19	1.000000	8.73193e-19	1.000000
rad31	7.97170e-19	1.000000	7.97173e-19	1.000000
PhCHCCH2+H	5.39109e-19	1.000000	5.39111e-19	1.000000
PhCCH+CH3	4.01913e-20	1.000000	4.01915e-20	1.000000
PhCCCH3+H	7.28955e-21	1.000000	7.28958e-21	1.000000
rad25	4.07044e-21	1.000000	4.07046e-21	1.000000
rad15	1.11421e-21	1.000000	1.11422e-21	1.000000
rad14	6.07081e-22	1.000000	6.07083e-22	1.000000
rad24	4.91463e-22	1.000000	4.91465e-22	1.000000
rad8	8.38459e-26	1.000000	8.38462e-26	1.000000
rad9	3.77301e-28	1.000000	3.77302e-28	1.000000
rad46	2.14985e-28	1.000000	2.14985e-28	1.000000
PAH7+H	7.01834e-29	1.000000	7.01836e-29	1.000000
Ph+MeAc	7.70203e-30	1.000000	7.70206e-30	1.000000
rad12	2.63196e-30	1.000000	2.63197e-30	1.000000
rad39	1.78820e-31	1.000000	1.78820e-31	1.000000
Ph+Allene	4.70338e-34	1.000000	4.70339e-34	1.000000
rad60syn	4.06837e-38	1.000000	4.06838e-38	1.000000
rad60anti	4.75208e-40	1.000000	4.75210e-40	1.000000
PhCH2CCH+H	1.07186e-41	1.000000	1.07186e-41	1.000000
rad37	1.05515e-42	1.000000	1.05516e-42	1.000000
rad5	7.08788e-46	1.000000	7.08790e-46	1.000000
PAH3+H	1.33079e-50	1.000000	1.33079e-50	1.000000
rad59	7.11380e-51	1.000000	7.11383e-51	1.000000
rad50	2.73815e-51	1.000000	2.73815e-51	1.000000
rad19syn	1.58429e-59	1.000000	1.58429e-59	1.000000
rad52	1.85738e-63	1.000000	1.85738e-63	1.000000
rad54	2.13999e-64	1.000000	2.14000e-64	1.000000
PAH10+CH3	1.75053e-64	1.000000	1.75054e-64	1.000000
rad43	4.07199e-65	1.000000	4.07201e-65	1.000000
rad62	1.22139e-67	1.000000	1.22140e-67	1.000000
rad51	1.17351e-70	1.000000	1.17351e-70	1.000000
rad70	1.57108e-73	1.000000	1.57109e-73	1.000000
PhcycC3H3_A+H	6.79435e-74	1.000000	6.79437e-74	1.000000
rad55	3.65058e-74	1.000000	3.65059e-74	1.000000
rad65	9.19210e-76	1.000000	9.19213e-76	1.000000
rad58	2.32414e-77	1.000000	2.32414e-77	1.000000
PAH1+H	3.73669e-79	1.000000	3.73670e-79	1.000000
rad34	2.58681e-81	1.000000	2.58682e-81	1.000000
rad42	3.47485e-85	1.000000	3.47486e-85	1.000000
rad41	9.24629e-86	1.000000	9.24632e-86	1.000000
rad47	1.33784e-89	1.000000	1.33784e-89	1.000000

0.100000000E-04 Pa, 70.000000 K

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

Total | 5.61998e-54 (1.00) | 5.61996e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.999788	0.999788	0.999793	0.999793
rad6	0.000207392	0.999995	0.000207393	1.00000
Benzyl+C2H2	4.55719e-06	1.000000	0.00000	1.00000
rad2	5.31791e-08	1.00000	5.31794e-08	1.00000
rad7	1.50255e-08	1.00000	1.50255e-08	1.00000
rad11	3.67727e-09	1.00000	3.67729e-09	1.00000
rad1	3.38878e-09	1.00000	3.38880e-09	1.00000
rad10	2.71451e-09	1.00000	2.71452e-09	1.00000
rad3	3.81564e-10	1.00000	3.81566e-10	1.00000
rad4	1.93304e-10	1.00000	1.93305e-10	1.00000
rad13	8.36888e-11	1.00000	8.36892e-11	1.00000
rad35	2.11107e-12	1.00000	2.11108e-12	1.00000
PAH9+H	2.62294e-13	1.00000	2.62295e-13	1.00000
rad33	1.58415e-13	1.00000	1.58415e-13	1.00000
rad28	1.04108e-13	1.00000	1.04108e-13	1.00000
rad26	2.42227e-14	1.00000	2.42228e-14	1.00000
rad20	1.69943e-14	1.00000	1.69944e-14	1.00000
rad21	1.06220e-14	1.00000	1.06221e-14	1.00000
rad23	1.32838e-15	1.00000	1.32838e-15	1.00000
rad30	1.03564e-15	1.00000	1.03565e-15	1.00000
rad38	9.17848e-16	1.00000	9.17852e-16	1.00000
rad18	8.04730e-17	1.00000	8.04734e-17	1.00000
rad22	2.01272e-17	1.00000	2.01273e-17	1.00000
rad27	1.84287e-17	1.00000	1.84287e-17	1.00000
rad45	8.55690e-18	1.00000	8.55694e-18	1.00000
PhCHCCH2+H	1.66861e-18	1.00000	1.66862e-18	1.00000
rad31	9.25686e-19	1.00000	9.25690e-19	1.00000
rad36	5.31268e-19	1.00000	5.31270e-19	1.00000
PhCCH+CH3	1.19759e-19	1.00000	1.19760e-19	1.00000
rad15	9.62134e-20	1.00000	9.62139e-20	1.00000
PhCCCH3+H	2.14909e-20	1.00000	2.14910e-20	1.00000
rad25	1.14590e-20	1.00000	1.14590e-20	1.00000
rad14	1.66837e-21	1.00000	1.66838e-21	1.00000
rad24	4.22051e-22	1.00000	4.22053e-22	1.00000
rad8	2.34670e-25	1.00000	2.34671e-25	1.00000
rad46	2.11034e-27	1.00000	2.11035e-27	1.00000
rad9	1.04486e-27	1.00000	1.04486e-27	1.00000
PAH7+H	1.93789e-28	1.00000	1.93790e-28	1.00000
Ph+MeAc	2.17055e-29	1.00000	2.17056e-29	1.00000
rad12	7.35626e-30	1.00000	7.35629e-30	1.00000
rad39	4.98041e-31	1.00000	4.98043e-31	1.00000
Ph+Allene	1.35323e-33	1.00000	1.35323e-33	1.00000
rad60syn	1.16357e-37	1.00000	1.16358e-37	1.00000
rad60anti	1.38459e-39	1.00000	1.38460e-39	1.00000
PhCH2CCH+H	3.35986e-41	1.00000	3.35987e-41	1.00000
rad37	3.55430e-42	1.00000	3.55432e-42	1.00000
rad5	2.44131e-45	1.00000	2.44132e-45	1.00000
PAH3+H	4.45738e-50	1.00000	4.45740e-50	1.00000
rad59	2.38103e-50	1.00000	2.38104e-50	1.00000
rad50	9.03521e-51	1.00000	9.03525e-51	1.00000
rad19syn	6.31444e-59	1.00000	6.31446e-59	1.00000
rad52	7.38526e-63	1.00000	7.38529e-63	1.00000
PAH10+CH3	1.40347e-63	1.00000	1.40348e-63	1.00000
rad54	9.21497e-64	1.00000	9.21501e-64	1.00000
rad43	3.29664e-64	1.00000	3.29665e-64	1.00000
rad62	9.14326e-67	1.00000	9.14331e-67	1.00000
rad51	5.44006e-70	1.00000	5.44009e-70	1.00000
rad70	8.17228e-73	1.00000	8.17231e-73	1.00000
PhcycC3H3_A+H	3.58845e-73	1.00000	3.58846e-73	1.00000
rad55	1.92452e-73	1.00000	1.92453e-73	1.00000
rad65	4.74565e-75	1.00000	4.74567e-75	1.00000
rad58	1.24391e-76	1.00000	1.24392e-76	1.00000
PAH1+H	2.35842e-78	1.00000	2.35843e-78	1.00000
rad34	1.68872e-80	1.00000	1.68873e-80	1.00000
rad42	1.13477e-83	1.00000	1.13477e-83	1.00000
rad41	5.00583e-84	1.00000	5.00585e-84	1.00000
rad47	7.15890e-89	1.00000	7.15893e-89	1.00000

0.100000000E-04 Pa, 80.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.28864e-49 (1.00)	7.28860e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999778	0.999778	0.999785	0.999785
rad6	0.000215335	0.999993	0.000215336	1.00000
Benzyl+C2H2	6.25307e-06	1.000000	0.00000	1.00000
rad2	5.93756e-08	1.000000	5.93760e-08	1.00000

rad7	1.56206e-08	1.000000	1.56207e-08	1.00000
rad11	3.82332e-09	1.000000	3.82334e-09	1.00000
rad1	3.79421e-09	1.000000	3.79423e-09	1.00000
rad10	3.03701e-09	1.000000	3.03703e-09	1.00000
rad3	4.15936e-10	1.000000	4.15939e-10	1.00000
rad4	2.10869e-10	1.000000	2.10870e-10	1.00000
rad13	8.70805e-11	1.000000	8.70811e-11	1.00000
rad35	3.84615e-12	1.000000	3.84618e-12	1.00000
PAH9+H	7.63817e-13	1.000000	7.63821e-13	1.00000
rad28	4.70119e-13	1.000000	4.70122e-13	1.00000
rad33	1.64980e-13	1.000000	1.64981e-13	1.00000
rad26	1.10435e-13	1.000000	1.10435e-13	1.00000
rad30	1.51683e-14	1.000000	1.51684e-14	1.00000
rad20	1.41012e-14	1.000000	1.41013e-14	1.00000
rad21	8.82042e-15	1.000000	8.82047e-15	1.00000
rad38	5.80677e-15	1.000000	5.80680e-15	1.00000
rad23	8.79964e-16	1.000000	8.79970e-16	1.00000
rad18	6.67772e-17	1.000000	6.67776e-17	1.00000
rad27	5.91242e-17	1.000000	5.91245e-17	1.00000
rad22	1.51012e-17	1.000000	1.51013e-17	1.00000
PhCHCCH2+H	1.05914e-17	1.000000	1.05914e-17	1.00000
rad45	5.64907e-18	1.000000	5.64911e-18	1.00000
rad15	4.85827e-18	1.000000	4.85830e-18	1.00000
rad31	1.05375e-18	1.000000	1.05375e-18	1.00000
PhCCH+CH3	8.18136e-19	1.000000	8.18141e-19	1.00000
rad36	3.50491e-19	1.000000	3.50493e-19	1.00000
PhCCCH3+H	1.50371e-19	1.000000	1.50371e-19	1.00000
rad25	5.52579e-20	1.000000	5.52582e-20	1.00000
rad14	8.45452e-21	1.000000	8.45458e-21	1.00000
rad24	3.74260e-22	1.000000	3.74263e-22	1.00000
rad8	1.82866e-24	1.000000	1.82867e-24	1.00000
rad46	4.62265e-25	1.000000	4.62268e-25	1.00000
rad9	6.88271e-27	1.000000	6.88275e-27	1.00000
PAH7+H	1.27961e-27	1.000000	1.27962e-27	1.00000
Ph+MeAc	1.47613e-28	1.000000	1.47614e-28	1.00000
rad12	4.94066e-29	1.000000	4.94069e-29	1.00000
rad39	3.34127e-30	1.000000	3.34129e-30	1.00000
Ph+Allene	9.46760e-33	1.000000	9.46766e-33	1.00000
rad60syn	8.07987e-37	1.000000	8.07992e-37	1.00000
rad60anti	9.83932e-39	1.000000	9.83938e-39	1.00000
PhCH2CCH+H	2.60350e-40	1.000000	2.60351e-40	1.00000
rad37	3.17675e-41	1.000000	3.17677e-41	1.00000
rad5	2.27113e-44	1.000000	2.27115e-44	1.00000
PAH3+H	3.74192e-49	1.000000	3.74194e-49	1.00000
rad59	1.99696e-49	1.000000	1.99697e-49	1.00000
rad50	7.66737e-50	1.000000	7.66742e-50	1.00000
rad19syn	6.90761e-58	1.000000	6.90766e-58	1.00000
rad52	9.24318e-62	1.000000	9.24323e-62	1.00000
PAH10+CH3	5.79413e-62	1.000000	5.79416e-62	1.00000
rad43	1.37168e-62	1.000000	1.37169e-62	1.00000
rad54	1.19425e-62	1.000000	1.19425e-62	1.00000
rad62	3.90525e-65	1.000000	3.90527e-65	1.00000
rad51	1.16140e-68	1.000000	1.16141e-68	1.00000
rad70	1.87746e-71	1.000000	1.87748e-71	1.00000
PhcycC3H3_A+H	8.68931e-72	1.000000	8.68936e-72	1.00000
rad55	4.62562e-72	1.000000	4.62565e-72	1.00000
rad65	1.53262e-73	1.000000	1.53263e-73	1.00000
rad58	3.15288e-75	1.000000	3.15290e-75	1.00000
PAH1+H	1.04611e-76	1.000000	1.04612e-76	1.00000
rad34	8.29473e-79	1.000000	8.29478e-79	1.00000
rad42	2.16524e-81	1.000000	2.16526e-81	1.00000
rad41	1.06088e-81	1.000000	1.06088e-81	1.00000
rad47	4.21355e-87	1.000000	4.21358e-87	1.00000

0.100000000E-04 Pa, 90.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.85154e-45 (1.00)	6.85148e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999768	0.999768	0.999776	0.999776
rad6	0.000223560	0.999992	0.000223562	1.000000
Benzyl+C2H2	8.45076e-06	1.00000	0.00000	1.000000
rad2	6.51564e-08	1.00000	6.51569e-08	1.000000
rad7	1.62397e-08	1.00000	1.62398e-08	1.000000
rad1	4.17642e-09	1.00000	4.17646e-09	1.000000
rad11	3.97547e-09	1.00000	3.97550e-09	1.000000
rad10	3.33898e-09	1.00000	3.33901e-09	1.000000

rad3	4.48771e-10	1.00000	4.48775e-10	1.000000
rad4	2.27697e-10	1.00000	2.27699e-10	1.000000
rad13	9.06152e-11	1.00000	9.06160e-11	1.000000
rad35	6.25344e-12	1.00000	6.25349e-12	1.000000
rad28	2.25584e-12	1.00000	2.25586e-12	1.000000
PAH9+H	1.77750e-12	1.00000	1.77751e-12	1.000000
rad26	5.44895e-13	1.00000	5.44899e-13	1.000000
rad33	1.71841e-13	1.00000	1.71843e-13	1.000000
rad30	1.20940e-13	1.00000	1.20941e-13	1.000000
rad38	2.43184e-14	1.00000	2.43186e-14	1.000000
rad20	1.19293e-14	1.00000	1.19294e-14	1.000000
rad21	7.46809e-15	1.00000	7.46815e-15	1.000000
rad23	6.17511e-16	1.00000	6.17516e-16	1.000000
rad27	1.80124e-16	1.00000	1.80125e-16	1.000000
PhCHCCH2+H	1.41985e-16	1.00000	1.41986e-16	1.000000
rad15	1.02413e-16	1.00000	1.02414e-16	1.000000
rad18	5.64768e-17	1.00000	5.64773e-17	1.000000
PhCCH+CH3	1.62056e-17	1.00000	1.62057e-17	1.000000
rad22	1.17462e-17	1.00000	1.17463e-17	1.000000
rad45	3.95395e-18	1.00000	3.95398e-18	1.000000
PhCCCH3+H	3.41443e-18	1.00000	3.41446e-18	1.000000
rad31	1.18221e-18	1.00000	1.18222e-18	1.000000
rad25	3.56065e-19	1.00000	3.56068e-19	1.000000
rad36	2.45183e-19	1.00000	2.45185e-19	1.000000
rad14	6.61405e-20	1.00000	6.61410e-20	1.000000
rad24	3.39852e-22	1.00000	3.39855e-22	1.000000
rad8	1.35722e-22	1.00000	1.35723e-22	1.000000
rad46	3.75736e-23	1.00000	3.75739e-23	1.000000
rad9	1.44142e-24	1.00000	1.44143e-24	1.000000
PAH7+H	2.60248e-25	1.00000	2.60250e-25	1.000000
Ph+MeAc	1.03551e-26	1.00000	1.03552e-26	1.000000
rad12	9.65509e-27	1.00000	9.65517e-27	1.000000
rad39	1.97752e-28	1.00000	1.97753e-28	1.000000
Ph+Allene	5.86191e-31	1.00000	5.86196e-31	1.000000
rad60syn	4.96171e-35	1.00000	4.96175e-35	1.000000
rad60anti	6.19659e-37	1.00000	6.19664e-37	1.000000
PhCH2CCH+H	1.79586e-38	1.00000	1.79588e-38	1.000000
rad37	2.36349e-39	1.00000	2.36351e-39	1.000000
rad5	1.74792e-42	1.00000	1.74793e-42	1.000000
PAH3+H	2.80853e-47	1.00000	2.80855e-47	1.000000
rad59	1.49719e-47	1.00000	1.49720e-47	1.000000
rad50	6.28087e-48	1.00000	6.28092e-48	1.000000
rad19syn	7.33743e-56	1.00000	7.33750e-56	1.000000
rad52	1.64457e-59	1.00000	1.64459e-59	1.000000
PAH10+CH3	1.55866e-59	1.00000	1.55868e-59	1.000000
rad43	3.69710e-60	1.00000	3.69714e-60	1.000000
rad54	1.67480e-60	1.00000	1.67481e-60	1.000000
rad62	1.20780e-62	1.00000	1.20781e-62	1.000000
rad51	4.73612e-66	1.00000	4.73616e-66	1.000000
rad70	6.05118e-69	1.00000	6.05123e-69	1.000000
PhcycC3H3_A+H	2.98191e-69	1.00000	2.98193e-69	1.000000
rad55	1.57119e-69	1.00000	1.57120e-69	1.000000
rad65	9.53006e-71	1.00000	9.53014e-71	1.000000
rad58	1.14068e-72	1.00000	1.14069e-72	1.000000
PAH1+H	6.36650e-74	1.00000	6.36655e-74	1.000000
rad34	5.58584e-76	1.00000	5.58589e-76	1.000000
rad42	2.10591e-78	1.00000	2.10593e-78	1.000000
rad41	1.07265e-78	1.00000	1.07266e-78	1.000000
rad47	3.95868e-84	1.00000	3.95871e-84	1.000000

0.100000000E-04 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02670e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999757	0.999757	0.999768	0.999768
rad6	0.000231834	0.999989	0.000231837	1.000000
Benzyl+C2H2	1.12940e-05	1.00000	0.00000	1.000000
rad2	7.04856e-08	1.00000	7.04864e-08	1.000000
rad7	1.68657e-08	1.00000	1.68659e-08	1.000000
rad1	4.53324e-09	1.00000	4.53329e-09	1.000000
rad11	4.12956e-09	1.00000	4.12961e-09	1.000000
rad10	3.61917e-09	1.00000	3.61921e-09	1.000000
rad3	4.79507e-10	1.00000	4.79512e-10	1.000000
rad4	2.43507e-10	1.00000	2.43509e-10	1.000000
rad13	9.41995e-11	1.00000	9.42006e-11	1.000000
rad35	9.46016e-12	1.00000	9.46027e-12	1.000000

rad28	9.40910e-12	1.00000	9.40920e-12	1.00000
PAH9+H	3.55675e-12	1.00000	3.55679e-12	1.00000
rad26	2.32116e-12	1.00000	2.32119e-12	1.00000
rad30	6.32551e-13	1.00000	6.32558e-13	1.00000
rad33	1.78823e-13	1.00000	1.78825e-13	1.00000
rad38	7.69263e-14	1.00000	7.69272e-14	1.00000
rad20	1.02390e-14	1.00000	1.02392e-14	1.00000
rad21	6.41580e-15	1.00000	6.41587e-15	1.00000
PhCHCCH2+H	1.90178e-15	1.00000	1.90180e-15	1.00000
rad15	1.16422e-15	1.00000	1.16423e-15	1.00000
rad27	4.73438e-16	1.00000	4.73443e-16	1.00000
rad23	4.52970e-16	1.00000	4.52975e-16	1.00000
PhCCH+CH3	3.27245e-16	1.00000	3.27249e-16	1.00000
PhCCCH3+H	7.89080e-17	1.00000	7.89089e-17	1.00000
rad18	4.84410e-17	1.00000	4.84416e-17	1.00000
rad22	9.38052e-18	1.00000	9.38063e-18	1.00000
rad45	2.89537e-18	1.00000	2.89541e-18	1.00000
rad25	2.02432e-18	1.00000	2.02434e-18	1.00000
rad31	1.31128e-18	1.00000	1.31129e-18	1.00000
rad14	4.72359e-19	1.00000	4.72365e-19	1.00000
rad36	1.79469e-19	1.00000	1.79471e-19	1.00000
rad8	8.17820e-21	1.00000	8.17829e-21	1.00000
rad46	1.26422e-21	1.00000	1.26424e-21	1.00000
rad24	3.14308e-22	1.00000	3.14311e-22	1.00000
rad9	1.75742e-22	1.00000	1.75744e-22	1.00000
PAH7+H	4.71172e-23	1.00000	4.71177e-23	1.00000
Ph+MeAc	1.61659e-23	1.00000	1.61661e-23	1.00000
rad12	2.88163e-24	1.00000	2.88166e-24	1.00000
rad39	3.60081e-25	1.00000	3.60085e-25	1.00000
Ph+Allene	1.55407e-28	1.00000	1.55409e-28	1.00000
rad60syn	1.30388e-32	1.00000	1.30389e-32	1.00000
rad60anti	1.67212e-34	1.00000	1.67214e-34	1.00000
PhCH2CCH+H	5.30724e-36	1.00000	5.30730e-36	1.00000
rad37	6.82894e-37	1.00000	6.82901e-37	1.00000
rad5	5.11951e-40	1.00000	5.11957e-40	1.00000
PAH3+H	8.96846e-45	1.00000	8.96856e-45	1.00000
rad59	4.77620e-45	1.00000	4.77625e-45	1.00000
rad50	2.07910e-45	1.00000	2.07912e-45	1.00000
rad19syn	3.22486e-53	1.00000	3.22490e-53	1.00000
PAH10+CH3	1.17043e-56	1.00000	1.17044e-56	1.00000
rad52	1.04986e-56	1.00000	1.04988e-56	1.00000
rad43	2.77854e-57	1.00000	2.77858e-57	1.00000
rad54	9.74144e-58	1.00000	9.74155e-58	1.00000
rad62	1.06064e-59	1.00000	1.06065e-59	1.00000
rad51	5.32236e-63	1.00000	5.32242e-63	1.00000
rad70	7.30673e-66	1.00000	7.30682e-66	1.00000
PhcycC3H3_A+H	3.78815e-66	1.00000	3.78819e-66	1.00000
rad55	1.97605e-66	1.00000	1.97607e-66	1.00000
rad65	1.41688e-67	1.00000	1.41689e-67	1.00000
rad58	1.50896e-69	1.00000	1.50898e-69	1.00000
PAH1+H	1.26949e-70	1.00000	1.26950e-70	1.00000
rad34	1.23066e-72	1.00000	1.23067e-72	1.00000
rad42	5.50055e-75	1.00000	5.50061e-75	1.00000
rad41	2.89149e-75	1.00000	2.89152e-75	1.00000
rad47	7.64026e-81	1.00000	7.64034e-81	1.00000

0.100000000E-04 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04926e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999745	0.999745	0.999760	0.999760
rad6	0.000239858	0.999985	0.000239862	1.000000
Benzyl+C2H2	1.49693e-05	1.000000	0.000000	1.000000
rad2	7.53570e-08	1.000000	7.53582e-08	1.000000
rad7	1.74767e-08	1.000000	1.74770e-08	1.000000
rad1	4.86436e-09	1.000000	4.86443e-09	1.000000
rad11	4.28020e-09	1.000000	4.28026e-09	1.000000
rad10	3.87631e-09	1.000000	3.87637e-09	1.000000
rad3	5.07810e-10	1.000000	5.07818e-10	1.000000
rad4	2.58130e-10	1.000000	2.58134e-10	1.000000
rad13	9.77117e-11	1.000000	9.77131e-11	1.000000
rad28	3.23634e-11	1.000000	3.23638e-11	1.000000
rad35	1.36666e-11	1.000000	1.36668e-11	1.000000
rad26	8.03935e-12	1.000000	8.03947e-12	1.000000
PAH9+H	6.41357e-12	1.000000	6.41367e-12	1.000000
rad30	2.44476e-12	1.000000	2.44480e-12	1.000000

rad38	1.99950e-13	1.000000	1.99953e-13	1.000000
rad33	1.85694e-13	1.000000	1.85697e-13	1.000000
PhCHCCH2+H	1.86097e-14	1.000000	1.86099e-14	1.000000
rad20	8.88640e-15	1.000000	8.88654e-15	1.000000
rad15	8.47640e-15	1.000000	8.47652e-15	1.000000
rad21	5.57377e-15	1.000000	5.57386e-15	1.000000
PhCCH+CH3	4.45158e-15	1.000000	4.45165e-15	1.000000
PhCCCH3+H	1.19019e-15	1.000000	1.19021e-15	1.000000
rad27	1.06294e-15	1.000000	1.06296e-15	1.000000
rad23	3.44404e-16	1.000000	3.44409e-16	1.000000
rad18	4.19913e-17	1.000000	4.19920e-17	1.000000
rad25	8.92086e-18	1.000000	8.92100e-18	1.000000
rad22	7.64110e-18	1.000000	7.64122e-18	1.000000
rad14	2.55035e-18	1.000000	2.55038e-18	1.000000
rad45	2.19965e-18	1.000000	2.19968e-18	1.000000
rad31	1.44083e-18	1.000000	1.44085e-18	1.000000
rad8	2.54125e-19	1.000000	2.54129e-19	1.000000
rad36	1.36313e-19	1.000000	1.36315e-19	1.000000
rad46	2.24497e-20	1.000000	2.24500e-20	1.000000
rad9	8.71605e-21	1.000000	8.71618e-21	1.000000
PAH7+H	2.76796e-21	1.000000	2.76800e-21	1.000000
Ph+MeAc	1.77213e-21	1.000000	1.77215e-21	1.000000
rad24	2.94962e-22	1.000000	2.94966e-22	1.000000
rad12	1.92009e-22	1.000000	1.92011e-22	1.000000
rad39	3.71043e-23	1.000000	3.71048e-23	1.000000
Ph+Allene	1.91647e-24	1.000000	1.91650e-24	1.000000
rad60syn	2.70846e-26	1.000000	2.70850e-26	1.000000
rad60anti	1.02858e-27	1.000000	1.02860e-27	1.000000
PhCH2CCH+H	4.28168e-33	1.000000	4.28175e-33	1.000000
rad37	5.08949e-34	1.000000	5.08957e-34	1.000000
rad5	3.77768e-37	1.000000	3.77773e-37	1.000000
PAH3+H	7.75167e-42	1.000000	7.75178e-42	1.000000
rad59	4.12508e-42	1.000000	4.12514e-42	1.000000
rad50	1.72188e-42	1.000000	1.72190e-42	1.000000
rad19syn	3.27779e-50	1.000000	3.27784e-50	1.000000
PAH10+CH3	1.44693e-53	1.000000	1.44695e-53	1.000000
rad52	1.26784e-53	1.000000	1.26786e-53	1.000000
rad43	3.43691e-54	1.000000	3.43696e-54	1.000000
rad54	1.16904e-54	1.000000	1.16906e-54	1.000000
rad62	1.53538e-56	1.000000	1.53540e-56	1.000000
rad51	1.01086e-59	1.000000	1.01087e-59	1.000000
rad70	1.55930e-62	1.000000	1.55932e-62	1.000000
PhcycC3H3_A+H	8.46720e-63	1.000000	8.46733e-63	1.000000
rad55	4.36852e-63	1.000000	4.36859e-63	1.000000
rad65	3.46625e-64	1.000000	3.46630e-64	1.000000
rad58	3.49648e-66	1.000000	3.49653e-66	1.000000
PAH1+H	4.36515e-67	1.000000	4.36522e-67	1.000000
rad34	4.73644e-69	1.000000	4.73651e-69	1.000000
rad42	2.34835e-71	1.000000	2.34839e-71	1.000000
rad41	1.26676e-71	1.000000	1.26678e-71	1.000000
rad47	2.40595e-77	1.000000	2.40599e-77	1.000000

0.100000000E-04 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87094e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999733	0.999733	0.999753	0.999753
rad6	0.000247264	0.999980	0.000247269	1.000000
Benzyl+C2H2	1.97163e-05	1.000000	0.000000	1.000000
rad2	7.96295e-08	1.000000	7.96310e-08	1.000000
rad7	1.80459e-08	1.000000	1.80463e-08	1.000000
rad1	5.16072e-09	1.000000	5.16082e-09	1.000000
rad11	4.42081e-09	1.000000	4.42089e-09	1.000000
rad10	4.10517e-09	1.000000	4.10525e-09	1.000000
rad3	5.33346e-10	1.000000	5.33356e-10	1.000000
rad4	2.71400e-10	1.000000	2.71405e-10	1.000000
rad13	1.01002e-10	1.000000	1.01004e-10	1.000000
rad28	9.27356e-11	1.000000	9.27374e-11	1.000000
rad26	2.29148e-11	1.000000	2.29153e-11	1.000000
rad35	1.91750e-11	1.000000	1.91754e-11	1.000000
PAH9+H	1.07542e-11	1.000000	1.07544e-11	1.000000
rad30	7.55918e-12	1.000000	7.55933e-12	1.000000
rad38	4.51601e-13	1.000000	4.51610e-13	1.000000
rad33	1.92171e-13	1.000000	1.92175e-13	1.000000
PhCHCCH2+H	1.32769e-13	1.000000	1.32771e-13	1.000000
rad15	4.43339e-14	1.000000	4.43347e-14	1.000000

PhCCH+CH3	4.14434e-14	1.00000	4.14442e-14	1.00000
PhCCCH3+H	1.20075e-14	1.00000	1.20077e-14	1.00000
rad20	7.77976e-15	1.00000	7.77992e-15	1.00000
rad21	4.88492e-15	1.00000	4.88502e-15	1.00000
rad27	2.07622e-15	1.00000	2.07626e-15	1.00000
rad23	2.69990e-16	1.00000	2.69996e-16	1.00000
rad18	3.66971e-17	1.00000	3.66979e-17	1.00000
rad25	3.07990e-17	1.00000	3.07996e-17	1.00000
rad14	1.04606e-17	1.00000	1.04608e-17	1.00000
rad22	6.31947e-18	1.00000	6.31959e-18	1.00000
rad8	4.55295e-18	1.00000	4.55304e-18	1.00000
rad45	1.72343e-18	1.00000	1.72346e-18	1.00000
rad31	1.56969e-18	1.00000	1.56972e-18	1.00000
rad46	2.47598e-19	1.00000	2.47603e-19	1.00000
rad9	2.27576e-19	1.00000	2.27580e-19	1.00000
rad36	1.06797e-19	1.00000	1.06799e-19	1.00000
PAH7+H	8.18088e-20	1.00000	8.18104e-20	1.00000
Ph+MeAc	7.39513e-20	1.00000	7.39528e-20	1.00000
rad12	6.19902e-21	1.00000	6.19914e-21	1.00000
rad39	1.50870e-21	1.00000	1.50873e-21	1.00000
rad24	2.80155e-22	1.00000	2.80161e-22	1.00000
Ph+Allene	1.55304e-22	1.00000	1.55307e-22	1.00000
rad60syn	1.65777e-24	1.00000	1.65781e-24	1.00000
rad60anti	9.96793e-26	1.00000	9.96813e-26	1.00000
PhCH2CCH+H	2.56059e-30	1.00000	2.56064e-30	1.00000
rad37	2.93910e-31	1.00000	2.93916e-31	1.00000
rad5	2.17312e-34	1.00000	2.17316e-34	1.00000
PAH3+H	4.99103e-39	1.00000	4.99113e-39	1.00000
rad59	2.65377e-39	1.00000	2.65382e-39	1.00000
rad50	1.04870e-39	1.00000	1.04872e-39	1.00000
rad19syn	2.43264e-47	1.00000	2.43268e-47	1.00000
PAH10+CH3	1.24638e-50	1.00000	1.24640e-50	1.00000
rad52	1.02733e-50	1.00000	1.02735e-50	1.00000
rad43	2.96267e-51	1.00000	2.96273e-51	1.00000
rad54	1.00008e-51	1.00000	1.00010e-51	1.00000
rad62	1.54946e-53	1.00000	1.54949e-53	1.00000
rad51	1.27655e-56	1.00000	1.27657e-56	1.00000
rad70	2.37431e-59	1.00000	2.37436e-59	1.00000
PhcycC3H3_A+H	1.35490e-59	1.00000	1.35493e-59	1.00000
rad55	6.89519e-60	1.00000	6.89532e-60	1.00000
rad65	5.64533e-61	1.00000	5.64544e-61	1.00000
rad58	5.80548e-63	1.00000	5.80559e-63	1.00000
PAH1+H	1.11326e-63	1.00000	1.11329e-63	1.00000
rad34	1.38317e-65	1.00000	1.38320e-65	1.00000
rad42	7.10958e-68	1.00000	7.10972e-68	1.00000
rad41	3.89437e-68	1.00000	3.89444e-68	1.00000
rad47	5.10015e-74	1.00000	5.10026e-74	1.00000

0.100000000E-04 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.94360e-35 (1.00)	3.94350e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999720	0.999720	0.999746	0.999746
rad6	0.000253639	0.999974	0.000253646	1.000000
Benzyl+C2H2	2.58400e-05	0.999999	0.000000	1.000000
rad2	8.33390e-08	1.000000	8.33411e-08	1.000000
rad7	1.85429e-08	1.000000	1.85434e-08	1.000000
rad1	5.42465e-09	1.000000	5.42479e-09	1.000000
rad11	4.54390e-09	1.000000	4.54402e-09	1.000000
rad10	4.30348e-09	1.000000	4.30359e-09	1.000000
rad3	5.55353e-10	1.000000	5.55368e-10	1.000000
rad4	2.82929e-10	1.000000	2.82936e-10	1.000000
rad28	2.26863e-10	1.000000	2.26869e-10	1.000000
rad13	1.03899e-10	1.000000	1.03902e-10	1.000000
rad26	5.52789e-11	1.000000	5.52803e-11	1.000000
rad35	2.64213e-11	1.000000	2.64220e-11	1.000000
rad30	1.97538e-11	1.000000	1.97543e-11	1.000000
PAH9+H	1.71339e-11	1.000000	1.71344e-11	1.000000
rad38	9.20746e-13	1.000000	9.20769e-13	1.000000
PhCHCCH2+H	7.26743e-13	1.000000	7.26762e-13	1.000000
PhCCH+CH3	2.82693e-13	1.000000	2.82700e-13	1.000000
rad33	1.97929e-13	1.000000	1.97934e-13	1.000000
rad15	1.80313e-13	1.000000	1.80318e-13	1.000000
PhCCCH3+H	8.72845e-14	1.000000	8.72868e-14	1.000000
rad20	6.85817e-15	1.000000	6.85835e-15	1.000000
rad21	4.31127e-15	1.000000	4.31139e-15	1.000000

rad27	3.60877e-15	1.000000	3.60887e-15	1.000000
rad23	2.17573e-16	1.000000	2.17578e-16	1.000000
rad25	8.65499e-17	1.000000	8.65522e-17	1.000000
rad8	5.29080e-17	1.000000	5.29094e-17	1.000000
rad14	3.40163e-17	1.000000	3.40172e-17	1.000000
rad18	3.22726e-17	1.000000	3.22734e-17	1.000000
rad22	5.28859e-18	1.000000	5.28872e-18	1.000000
rad9	3.63151e-18	1.000000	3.63160e-18	1.000000
rad46	1.89856e-18	1.000000	1.89861e-18	1.000000
Ph+MeAc	1.76066e-18	1.000000	1.76071e-18	1.000000
rad31	1.69665e-18	1.000000	1.69669e-18	1.000000
PAH7+H	1.43874e-18	1.000000	1.43877e-18	1.000000
rad45	1.38872e-18	1.000000	1.38876e-18	1.000000
rad12	1.17319e-19	1.000000	1.17322e-19	1.000000
rad36	8.60685e-20	1.000000	8.60707e-20	1.000000
rad39	3.48497e-20	1.000000	3.48506e-20	1.000000
Ph+Allene	5.84424e-21	1.000000	5.84439e-21	1.000000
rad24	2.68809e-22	1.000000	2.68816e-22	1.000000
rad60syn	5.24597e-23	1.000000	5.24610e-23	1.000000
rad60anti	4.01378e-24	1.000000	4.01388e-24	1.000000
PhCH2CCH+H	1.64539e-25	1.000000	1.64543e-25	1.000000
rad37	3.40781e-26	1.000000	3.40790e-26	1.000000
rad5	1.70334e-31	1.000000	1.70339e-31	1.000000
PAH3+H	4.28399e-36	1.000000	4.28410e-36	1.000000
rad59	2.27581e-36	1.000000	2.27587e-36	1.000000
rad50	8.46788e-37	1.000000	8.46810e-37	1.000000
rad19syn	2.19757e-44	1.000000	2.19763e-44	1.000000
PAH10+CH3	9.33628e-48	1.000000	9.33652e-48	1.000000
rad52	8.29228e-48	1.000000	8.29249e-48	1.000000
rad43	2.22038e-48	1.000000	2.22044e-48	1.000000
rad54	8.74643e-49	1.000000	8.74666e-49	1.000000
rad62	1.35154e-50	1.000000	1.35158e-50	1.000000
rad51	1.51117e-53	1.000000	1.51121e-53	1.000000
rad70	3.12659e-56	1.000000	3.12667e-56	1.000000
PhcycC3H3_A+H	1.87466e-56	1.000000	1.87471e-56	1.000000
rad55	9.39047e-57	1.000000	9.39071e-57	1.000000
rad65	8.59996e-58	1.000000	8.60018e-58	1.000000
rad58	8.33278e-60	1.000000	8.33300e-60	1.000000
PAH1+H	2.46341e-60	1.000000	2.46348e-60	1.000000
rad34	3.51911e-62	1.000000	3.51920e-62	1.000000
rad42	1.85941e-64	1.000000	1.85946e-64	1.000000
rad41	1.02376e-64	1.000000	1.02378e-64	1.000000
rad47	1.01712e-70	1.000000	1.01715e-70	1.000000

0.100000000E-04 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.44756e-33 (1.00)	1.44751e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999708	0.999708	0.999741	0.999741
rad6	0.000258554	0.999967	0.000258562	1.000000
Benzyl+C2H2	3.37244e-05	1.00000	0.00000	1.000000
rad2	8.62439e-08	1.00000	8.62468e-08	1.000000
rad7	1.89359e-08	1.00000	1.89365e-08	1.000000
rad1	5.64032e-09	1.00000	5.64051e-09	1.000000
rad11	4.64170e-09	1.00000	4.64185e-09	1.000000
rad10	4.46342e-09	1.00000	4.46357e-09	1.000000
rad3	5.72592e-10	1.00000	5.72611e-10	1.000000
rad28	4.85463e-10	1.00000	4.85480e-10	1.000000
rad4	2.92084e-10	1.00000	2.92094e-10	1.000000
rad26	1.15992e-10	1.00000	1.15996e-10	1.000000
rad13	1.06226e-10	1.00000	1.06229e-10	1.000000
rad30	4.53666e-11	1.00000	4.53682e-11	1.000000
rad35	3.60123e-11	1.00000	3.60135e-11	1.000000
PAH9+H	2.63303e-11	1.00000	2.63312e-11	1.000000
PhCHCCH2+H	3.20638e-12	1.00000	3.20649e-12	1.000000
rad38	1.74016e-12	1.00000	1.74022e-12	1.000000
PhCCH+CH3	1.50123e-12	1.00000	1.50128e-12	1.000000
rad15	6.03360e-13	1.00000	6.03380e-13	1.000000
PhCCCH3+H	4.87641e-13	1.00000	4.87657e-13	1.000000
rad33	2.02626e-13	1.00000	2.02633e-13	1.000000
rad20	6.07955e-15	1.00000	6.07976e-15	1.000000
rad27	5.69507e-15	1.00000	5.69526e-15	1.000000
rad21	3.82662e-15	1.00000	3.82675e-15	1.000000
rad8	4.36483e-16	1.00000	4.36498e-16	1.000000
rad25	2.05404e-16	1.00000	2.05411e-16	1.000000
rad23	1.80013e-16	1.00000	1.80019e-16	1.000000

rad14	9.14498e-17	1.00000	9.14529e-17	1.000000
rad9	3.93076e-17	1.00000	3.93089e-17	1.000000
rad18	2.85208e-17	1.00000	2.85218e-17	1.000000
Ph+MeAc	2.69708e-17	1.00000	2.69717e-17	1.000000
PAH7+H	1.68208e-17	1.00000	1.68213e-17	1.000000
rad46	1.09701e-17	1.00000	1.09705e-17	1.000000
rad22	4.46725e-18	1.00000	4.46740e-18	1.000000
rad31	1.81948e-18	1.00000	1.81954e-18	1.000000
rad12	1.45893e-18	1.00000	1.45898e-18	1.000000
rad45	1.15012e-18	1.00000	1.15015e-18	1.000000
rad39	5.16699e-19	1.00000	5.16716e-19	1.000000
Ph+Allene	1.30004e-19	1.00000	1.30008e-19	1.000000
rad36	7.13065e-20	1.00000	7.13089e-20	1.000000
rad60syn	1.00451e-21	1.00000	1.00454e-21	1.000000
rad24	2.60205e-22	1.00000	2.60214e-22	1.000000
rad60anti	9.33592e-23	1.00000	9.33623e-23	1.000000
PhCH2CCH+H	1.18588e-23	1.00000	1.18592e-23	1.000000
rad37	3.38520e-24	1.00000	3.38532e-24	1.000000
rad5	6.96749e-27	1.00000	6.96773e-27	1.000000
PAH3+H	1.15604e-28	1.00000	1.15608e-28	1.000000
rad59	5.78022e-29	1.00000	5.78042e-29	1.000000
rad50	7.59923e-30	1.00000	7.59948e-30	1.000000
rad19syn	1.47639e-41	1.00000	1.47644e-41	1.000000
rad52	4.37605e-45	1.00000	4.37619e-45	1.000000
PAH10+CH3	4.36360e-45	1.00000	4.36375e-45	1.000000
rad43	1.03797e-45	1.00000	1.03800e-45	1.000000
rad54	5.35543e-46	1.00000	5.35561e-46	1.000000
rad62	7.29274e-48	1.00000	7.29299e-48	1.000000
rad51	1.10725e-50	1.00000	1.10729e-50	1.000000
rad70	2.52153e-53	1.00000	2.52161e-53	1.000000
PhcycC3H3_A+H	1.58976e-53	1.00000	1.58981e-53	1.000000
rad55	7.81968e-54	1.00000	7.81995e-54	1.000000
rad65	8.14384e-55	1.00000	8.14411e-55	1.000000
rad58	7.33193e-57	1.00000	7.33217e-57	1.000000
PAH1+H	3.34063e-57	1.00000	3.34074e-57	1.000000
rad34	5.47795e-59	1.00000	5.47813e-59	1.000000
rad42	3.01440e-61	1.00000	3.01450e-61	1.000000
rad41	1.65097e-61	1.00000	1.65102e-61	1.000000
rad47	1.27343e-67	1.00000	1.27348e-67	1.000000

0.100000000E-04 Pa, 150.000000 K

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

Total | 3.27736e-32 (1.00) | 3.27722e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999694	0.999694	0.999738	0.999738
rad6	0.000261607	0.999956	0.000261619	1.000000
Benzyl+C2H2	4.38485e-05	0.999999	0.00000	1.000000
rad2	8.82829e-08	1.000000	8.82867e-08	1.000000
rad7	1.91949e-08	1.000000	1.91958e-08	1.000000
rad1	5.80340e-09	1.000000	5.80365e-09	1.000000
rad11	4.70682e-09	1.000000	4.70703e-09	1.000000
rad10	4.57895e-09	1.000000	4.57915e-09	1.000000
rad28	9.27854e-10	1.000000	9.27895e-10	1.000000
rad3	5.84890e-10	1.000000	5.84916e-10	1.000000
rad4	2.98776e-10	1.000000	2.98789e-10	1.000000
rad26	2.16651e-10	1.000000	2.16661e-10	1.000000
rad13	1.07811e-10	1.000000	1.07816e-10	1.000000
rad30	9.42098e-11	1.000000	9.42140e-11	1.000000
rad35	4.87735e-11	1.000000	4.87757e-11	1.000000
PAH9+H	3.94368e-11	1.000000	3.94385e-11	1.000000
PhCHCCH2+H	1.18685e-11	1.000000	1.18691e-11	1.000000
PhCCH+CH3	6.51050e-12	1.000000	6.51079e-12	1.000000
rad38	3.10594e-12	1.000000	3.10608e-12	1.000000
PhCCCH3+H	2.20211e-12	1.000000	2.20220e-12	1.000000
rad15	1.73082e-12	1.000000	1.73089e-12	1.000000
rad33	2.05936e-13	1.000000	2.05945e-13	1.000000
rad27	8.29543e-15	1.000000	8.29579e-15	1.000000
rad20	5.41398e-15	1.000000	5.41421e-15	1.000000
rad21	3.41231e-15	1.000000	3.41246e-15	1.000000
rad8	2.73611e-15	1.000000	2.73623e-15	1.000000
rad25	4.24391e-16	1.000000	4.24410e-16	1.000000
rad9	3.11832e-16	1.000000	3.11845e-16	1.000000
Ph+MeAc	2.90250e-16	1.000000	2.90263e-16	1.000000
rad14	2.10393e-16	1.000000	2.10402e-16	1.000000
rad23	1.52962e-16	1.000000	1.52968e-16	1.000000
PAH7+H	1.41946e-16	1.000000	1.41952e-16	1.000000

rad46	5.06667e-17	1.000000	5.06689e-17	1.000000
rad18	2.53019e-17	1.000000	2.53030e-17	1.000000
rad12	1.29707e-17	1.000000	1.29713e-17	1.000000
rad39	5.37735e-18	1.000000	5.37758e-18	1.000000
rad22	3.80143e-18	1.000000	3.80160e-18	1.000000
rad31	1.93580e-18	1.000000	1.93589e-18	1.000000
Ph+Allene	1.92636e-18	1.000000	1.92644e-18	1.000000
rad45	9.78583e-19	1.000000	9.78626e-19	1.000000
rad36	6.07080e-20	1.000000	6.07106e-20	1.000000
rad60syn	1.29360e-20	1.000000	1.29366e-20	1.000000
rad60anti	1.42012e-21	1.000000	1.42019e-21	1.000000
PhCH2CCH+H	3.70371e-22	1.000000	3.70387e-22	1.000000
rad24	2.53853e-22	1.000000	2.53864e-22	1.000000
rad37	1.02431e-22	1.000000	1.02435e-22	1.000000
rad5	3.31059e-25	1.000000	3.31074e-25	1.000000
PAH3+H	1.81873e-26	1.000000	1.81881e-26	1.000000
rad59	8.19789e-27	1.000000	8.19825e-27	1.000000
rad50	5.49367e-28	1.000000	5.49391e-28	1.000000
rad19syn	2.98125e-38	1.000000	2.98139e-38	1.000000
rad52	5.09112e-42	1.000000	5.09135e-42	1.000000
PAH10+CH3	2.77656e-42	1.000000	2.77668e-42	1.000000
rad54	8.68149e-43	1.000000	8.68187e-43	1.000000
rad43	6.57572e-43	1.000000	6.57601e-43	1.000000
rad62	5.00149e-45	1.000000	5.00171e-45	1.000000
rad51	1.16009e-47	1.000000	1.16014e-47	1.000000
rad70	2.34490e-50	1.000000	2.34500e-50	1.000000
PhcycC3H3_A+H	1.51526e-50	1.000000	1.51533e-50	1.000000
rad55	7.36668e-51	1.000000	7.36701e-51	1.000000
rad65	1.07924e-51	1.000000	1.07929e-51	1.000000
rad58	7.17881e-54	1.000000	7.17912e-54	1.000000
PAH1+H	4.37380e-54	1.000000	4.37399e-54	1.000000
rad34	7.85600e-56	1.000000	7.85635e-56	1.000000
rad42	5.31444e-58	1.000000	5.31467e-58	1.000000
rad41	2.97611e-58	1.000000	2.97624e-58	1.000000
rad47	2.22231e-64	1.000000	2.22241e-64	1.000000

0.100000000E-04 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01140e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999681	0.999681	0.999737	0.999737
rad6	0.000262467	0.999943	0.000262482	0.999999
Benzyl+C2H2	5.68042e-05	1.00000	0.00000	0.999999
rad2	8.94099e-08	1.00000	8.94150e-08	1.000000
rad7	1.92949e-08	1.00000	1.92960e-08	1.000000
rad1	5.91039e-09	1.00000	5.91073e-09	1.000000
rad11	4.73307e-09	1.00000	4.73334e-09	1.000000
rad10	4.64750e-09	1.00000	4.64776e-09	1.000000
rad28	1.61139e-09	1.00000	1.61148e-09	1.000000
rad3	5.91612e-10	1.00000	5.91646e-10	1.000000
rad26	3.67049e-10	1.00000	3.67070e-10	1.000000
rad4	3.02673e-10	1.00000	3.02691e-10	1.000000
rad30	1.80675e-10	1.00000	1.80685e-10	1.000000
rad13	1.08512e-10	1.00000	1.08518e-10	1.000000
rad35	6.58089e-11	1.00000	6.58127e-11	1.000000
PAH9+H	5.79818e-11	1.00000	5.79851e-11	1.000000
PhCHCCH2+H	3.80352e-11	1.00000	3.80374e-11	1.000000
PhCCH+CH3	2.39261e-11	1.00000	2.39275e-11	1.000000
PhCCCH3+H	8.35656e-12	1.00000	8.35704e-12	1.000000
rad38	5.30501e-12	1.00000	5.30531e-12	1.000000
rad15	4.38905e-12	1.00000	4.38930e-12	1.000000
rad33	2.07578e-13	1.00000	2.07590e-13	1.000000
rad8	1.37213e-14	1.00000	1.37221e-14	1.000000
rad27	1.13004e-14	1.00000	1.13011e-14	1.000000
rad20	4.83956e-15	1.00000	4.83984e-15	1.000000
rad21	3.05473e-15	1.00000	3.05490e-15	1.000000
Ph+MeAc	2.34296e-15	1.00000	2.34310e-15	1.000000
rad9	1.92204e-15	1.00000	1.92215e-15	1.000000
PAH7+H	9.19855e-16	1.00000	9.19907e-16	1.000000
rad25	7.82037e-16	1.00000	7.82081e-16	1.000000
rad14	4.25709e-16	1.00000	4.25733e-16	1.000000
rad46	1.95487e-16	1.00000	1.95498e-16	1.000000
rad23	1.33707e-16	1.00000	1.33714e-16	1.000000
rad12	8.78391e-17	1.00000	8.78441e-17	1.000000
rad39	4.19928e-17	1.00000	4.19952e-17	1.000000
rad18	2.25138e-17	1.00000	2.25151e-17	1.000000

Ph+Allene	2.05384e-17	1.00000	2.05396e-17	1.000000
rad22	3.25399e-18	1.00000	3.25417e-18	1.000000
rad31	2.04362e-18	1.00000	2.04374e-18	1.000000
rad45	8.57235e-19	1.00000	8.57283e-19	1.000000
rad60syn	1.20850e-19	1.00000	1.20857e-19	1.000000
rad36	5.32255e-20	1.00000	5.32286e-20	1.000000
rad60anti	1.53284e-20	1.00000	1.53292e-20	1.000000
PhCH2CCH+H	7.06888e-21	1.00000	7.06928e-21	1.000000
rad37	1.92182e-21	1.00000	1.92193e-21	1.000000
rad24	2.49422e-22	1.00000	2.49436e-22	1.000000
rad5	7.57332e-24	1.00000	7.57375e-24	1.000000
PAH3+H	5.45432e-25	1.00000	5.45463e-25	1.000000
rad59	2.30297e-25	1.00000	2.30310e-25	1.000000
rad50	1.44925e-26	1.00000	1.44933e-26	1.000000
rad19syn	3.66271e-35	1.00000	3.66292e-35	1.000000
rad52	4.66857e-39	1.00000	4.66884e-39	1.000000
PAH10+CH3	1.37533e-39	1.00000	1.37541e-39	1.000000
rad54	1.04816e-39	1.00000	1.04822e-39	1.000000
rad43	3.21951e-40	1.00000	3.21969e-40	1.000000
rad62	2.33616e-42	1.00000	2.33630e-42	1.000000
rad51	6.68249e-45	1.00000	6.68287e-45	1.000000
rad70	1.33514e-47	1.00000	1.33521e-47	1.000000
PhcycC3H3_A+H	8.52497e-48	1.00000	8.52546e-48	1.000000
rad55	4.13711e-48	1.00000	4.13734e-48	1.000000
rad65	7.52129e-49	1.00000	7.52172e-49	1.000000
rad58	4.07473e-51	1.00000	4.07496e-51	1.000000
PAH1+H	2.97626e-51	1.00000	2.97643e-51	1.000000
rad34	5.75510e-53	1.00000	5.75542e-53	1.000000
rad42	4.98091e-55	1.00000	4.98119e-55	1.000000
rad41	2.88072e-55	1.00000	2.88088e-55	1.000000
rad47	2.05177e-61	1.00000	2.05189e-61	1.000000

0.100000000E-04 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54780e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999666	0.999666	0.999739	0.999739
rad6	0.000260905	0.999927	0.000260924	1.000000
Benzyl+C2H2	7.33171e-05	1.00000	0.00000	1.000000
rad2	8.95155e-08	1.00000	8.95221e-08	1.000000
rad7	1.92181e-08	1.00000	1.92195e-08	1.000000
rad1	5.95339e-09	1.00000	5.95383e-09	1.000000
rad11	4.71605e-09	1.00000	4.71640e-09	1.000000
rad10	4.66397e-09	1.00000	4.66431e-09	1.000000
rad28	2.57883e-09	1.00000	2.57902e-09	1.000000
rad3	5.91477e-10	1.00000	5.91520e-10	1.000000
rad26	5.72656e-10	1.00000	5.72698e-10	1.000000
rad30	3.25110e-10	1.00000	3.25134e-10	1.000000
rad4	3.03112e-10	1.00000	3.03134e-10	1.000000
rad13	1.08225e-10	1.00000	1.08233e-10	1.000000
PhCHCCH2+H	1.08160e-10	1.00000	1.08168e-10	1.000000
rad35	8.85781e-11	1.00000	8.85846e-11	1.000000
PAH9+H	8.40819e-11	1.00000	8.40881e-11	1.000000
PhCCH+CH3	7.66786e-11	1.00000	7.66842e-11	1.000000
PhCCCH3+H	2.74629e-11	1.00000	2.74649e-11	1.000000
rad15	1.00702e-11	1.00000	1.00709e-11	1.000000
rad38	8.75292e-12	1.00000	8.75356e-12	1.000000
rad33	2.07350e-13	1.00000	2.07365e-13	1.000000
rad8	5.72737e-14	1.00000	5.72779e-14	1.000000
Ph+MeAc	1.49169e-14	1.00000	1.49180e-14	1.000000
rad27	1.45484e-14	1.00000	1.45495e-14	1.000000
rad9	9.62581e-15	1.00000	9.62652e-15	1.000000
PAH7+H	4.80003e-15	1.00000	4.80038e-15	1.000000
rad20	4.33994e-15	1.00000	4.34026e-15	1.000000
rad21	2.74367e-15	1.00000	2.74388e-15	1.000000
rad25	1.31001e-15	1.00000	1.31010e-15	1.000000
rad14	7.74086e-16	1.00000	7.74143e-16	1.000000
rad46	6.51609e-16	1.00000	6.51657e-16	1.000000
rad12	4.75630e-16	1.00000	4.75665e-16	1.000000
rad39	2.58953e-16	1.00000	2.58972e-16	1.000000
Ph+Allene	1.67050e-16	1.00000	1.67063e-16	1.000000
rad23	1.20572e-16	1.00000	1.20580e-16	1.000000
rad18	2.00804e-17	1.00000	2.00818e-17	1.000000
rad22	2.79860e-18	1.00000	2.79880e-18	1.000000
rad31	2.14063e-18	1.00000	2.14079e-18	1.000000
rad60syn	8.67669e-19	1.00000	8.67732e-19	1.000000

rad45	7.76075e-19	1.00000	7.76132e-19	1.00000
rad60anti	1.24864e-19	1.00000	1.24873e-19	1.00000
PhCH2CCH+H	9.52329e-20	1.00000	9.52399e-20	1.00000
rad36	4.82413e-20	1.00000	4.82448e-20	1.00000
rad37	2.51629e-20	1.00000	2.51647e-20	1.00000
rad24	2.46689e-22	1.00000	2.46707e-22	1.00000
rad5	1.17139e-22	1.00000	1.17147e-22	1.00000
PAH3+H	1.00146e-23	1.00000	1.00153e-23	1.00000
rad59	4.07843e-24	1.00000	4.07873e-24	1.00000
rad50	2.47923e-25	1.00000	2.47941e-25	1.00000
rad19syn	3.67699e-29	1.00000	3.67726e-29	1.00000
rad52	2.29678e-31	1.00000	2.29695e-31	1.00000
rad54	8.12606e-37	1.00000	8.12665e-37	1.00000
PAH10+CH3	6.62469e-37	1.00000	6.62517e-37	1.00000
rad43	1.53283e-37	1.00000	1.53294e-37	1.00000
rad62	9.67980e-40	1.00000	9.68051e-40	1.00000
rad51	2.43478e-42	1.00000	2.43496e-42	1.00000
rad70	5.74893e-45	1.00000	5.74935e-45	1.00000
PhcycC3H3_A+H	3.42160e-45	1.00000	3.42185e-45	1.00000
rad55	1.68929e-45	1.00000	1.68942e-45	1.00000
rad65	2.93293e-46	1.00000	2.93315e-46	1.00000
rad58	1.58326e-48	1.00000	1.58338e-48	1.00000
PAH1+H	1.12901e-48	1.00000	1.12909e-48	1.00000
rad34	2.29523e-50	1.00000	2.29540e-50	1.00000
rad42	2.62249e-52	1.00000	2.62268e-52	1.00000
rad41	1.58271e-52	1.00000	1.58283e-52	1.00000
rad47	1.04851e-58	1.00000	1.04859e-58	1.00000

0.100000000E-04 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.69315e-29 (1.00)	4.69271e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999649	0.999649	0.999743	0.999743
rad6	0.000256819	0.999906	0.000256843	1.000000
Benzyl+C2H2	9.42691e-05	1.00000	0.00000	1.000000
rad2	8.86906e-08	1.00000	8.86989e-08	1.000000
rad7	1.89558e-08	1.00000	1.89576e-08	1.000000
rad1	5.93755e-09	1.00000	5.93811e-09	1.000000
rad11	4.65360e-09	1.00000	4.65404e-09	1.000000
rad10	4.62990e-09	1.00000	4.63034e-09	1.000000
rad28	3.84721e-09	1.00000	3.84757e-09	1.000000
rad26	8.32885e-10	1.00000	8.32963e-10	1.000000
rad3	5.85593e-10	1.00000	5.85649e-10	1.000000
rad30	5.55563e-10	1.00000	5.55615e-10	1.000000
rad4	3.00647e-10	1.00000	3.00676e-10	1.000000
PhCHCCH2+H	2.78263e-10	1.00000	2.78289e-10	1.000000
PhCCH+CH3	2.19162e-10	1.00000	2.19183e-10	1.000000
PAH9+H	1.20638e-10	1.00000	1.20649e-10	1.000000
rad35	1.18993e-10	1.00000	1.19004e-10	1.000000
rad13	1.06899e-10	1.00000	1.06909e-10	1.000000
PhCCCH3+H	8.00263e-11	1.00000	8.00338e-11	1.000000
rad15	2.12831e-11	1.00000	2.12851e-11	1.000000
rad38	1.40451e-11	1.00000	1.40464e-11	1.000000
rad8	2.05225e-13	1.00000	2.05245e-13	1.000000
rad33	2.05144e-13	1.00000	2.05163e-13	1.000000
Ph+MeAc	7.78939e-14	1.00000	7.79013e-14	1.000000
rad9	4.05575e-14	1.00000	4.05614e-14	1.000000
PAH7+H	2.09281e-14	1.00000	2.09301e-14	1.000000
rad27	1.78505e-14	1.00000	1.78521e-14	1.000000
rad20	3.90263e-15	1.00000	3.90300e-15	1.000000
rad21	2.47138e-15	1.00000	2.47161e-15	1.000000
rad12	2.13836e-15	1.00000	2.13857e-15	1.000000
rad25	2.02523e-15	1.00000	2.02543e-15	1.000000
rad46	1.92576e-15	1.00000	1.92594e-15	1.000000
rad39	1.31198e-15	1.00000	1.31211e-15	1.000000
rad14	1.28669e-15	1.00000	1.28682e-15	1.000000
Ph+Allene	1.08453e-15	1.00000	1.08464e-15	1.000000
rad23	1.12584e-16	1.00000	1.12594e-16	1.000000
rad18	1.79434e-17	1.00000	1.79451e-17	1.000000
rad60syn	5.00692e-18	1.00000	5.00740e-18	1.000000
rad22	2.41616e-18	1.00000	2.41639e-18	1.000000
rad31	2.22568e-18	1.00000	2.22589e-18	1.000000
PhCH2CCH+H	9.66121e-19	1.00000	9.66212e-19	1.000000
rad60anti	8.05140e-19	1.00000	8.05216e-19	1.000000
rad45	7.28177e-19	1.00000	7.28245e-19	1.000000
rad37	2.44811e-19	1.00000	2.44834e-19	1.000000

rad36	4.53295e-20	1.00000	4.53338e-20	1.000000
rad5	1.33457e-21	1.00000	1.33470e-21	1.000000
rad24	2.45517e-22	1.00000	2.45540e-22	1.000000
PAH3+H	1.31622e-22	1.00000	1.31635e-22	1.000000
rad59	5.19688e-23	1.00000	5.19737e-23	1.000000
rad50	3.08694e-24	1.00000	3.08723e-24	1.000000
rad19syn	4.66083e-27	1.00000	4.66127e-27	1.000000
rad52	1.37731e-29	1.00000	1.37744e-29	1.000000
rad54	8.06631e-34	1.00000	8.06707e-34	1.000000
PAH10+CH3	5.46348e-34	1.00000	5.46399e-34	1.000000
rad43	1.25867e-34	1.00000	1.25879e-34	1.000000
rad62	7.19498e-37	1.00000	7.19566e-37	1.000000
rad51	1.15322e-39	1.00000	1.15332e-39	1.000000
rad70	3.98411e-42	1.00000	3.98448e-42	1.000000
PhcycC3H3_A+H	2.07775e-42	1.00000	2.07795e-42	1.000000
rad55	1.07125e-42	1.00000	1.07135e-42	1.000000
rad65	9.17456e-44	1.00000	9.17542e-44	1.000000
rad58	8.58855e-46	1.00000	8.58936e-46	1.000000
PAH1+H	2.99040e-46	1.00000	2.99068e-46	1.000000
rad34	5.91496e-48	1.00000	5.91552e-48	1.000000
rad42	9.21677e-50	1.00000	9.21764e-50	1.000000
rad41	5.89524e-50	1.00000	5.89580e-50	1.000000
rad47	3.85150e-56	1.00000	3.85186e-56	1.000000

0.1000000000E-04 Pa, 190.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.16530e-28 (1.00)	3.16492e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999629	0.999629	0.999750	0.999750
rad6	0.000250240	0.999879	0.000250270	1.000000
Benzyl+C2H2	0.000120724	1.000000	0.000000	1.000000
rad2	8.68504e-08	1.000000	8.68609e-08	1.000000
rad7	1.85092e-08	1.000000	1.85115e-08	1.000000
rad1	5.85613e-09	1.000000	5.85684e-09	1.000000
rad28	5.40110e-09	1.000000	5.40175e-09	1.000000
rad11	4.54593e-09	1.000000	4.54648e-09	1.000000
rad10	4.54382e-09	1.000000	4.54437e-09	1.000000
rad26	1.14056e-09	1.000000	1.14069e-09	1.000000
rad30	9.09946e-10	1.000000	9.10056e-10	1.000000
PhCHCCH2+H	6.57705e-10	1.000000	6.57784e-10	1.000000
rad3	5.73260e-10	1.000000	5.73330e-10	1.000000
PhCCH+CH3	5.68658e-10	1.000000	5.68726e-10	1.000000
rad4	2.94905e-10	1.000000	2.94941e-10	1.000000
PhCCCH3+H	2.10666e-10	1.000000	2.10691e-10	1.000000
PAH9+H	1.71587e-10	1.000000	1.71608e-10	1.000000
rad35	1.59541e-10	1.000000	1.59561e-10	1.000000
rad13	1.04535e-10	1.000000	1.04548e-10	1.000000
rad15	4.20172e-11	1.000000	4.20223e-11	1.000000
rad38	2.20250e-11	1.000000	2.20276e-11	1.000000
rad8	6.46876e-13	1.000000	6.46954e-13	1.000000
Ph+MeAc	3.44083e-13	1.000000	3.44125e-13	1.000000
rad33	2.00954e-13	1.000000	2.00978e-13	1.000000
rad9	1.47779e-13	1.000000	1.47796e-13	1.000000
PAH7+H	7.84905e-14	1.000000	7.84999e-14	1.000000
rad27	2.10154e-14	1.000000	2.10179e-14	1.000000
rad12	8.22295e-15	1.000000	8.22394e-15	1.000000
Ph+Allene	5.82461e-15	1.000000	5.82532e-15	1.000000
rad39	5.63476e-15	1.000000	5.63544e-15	1.000000
rad46	5.14971e-15	1.000000	5.15033e-15	1.000000
rad20	3.51791e-15	1.000000	3.51833e-15	1.000000
rad25	2.92477e-15	1.000000	2.92512e-15	1.000000
rad21	2.23180e-15	1.000000	2.23207e-15	1.000000
rad14	1.98196e-15	1.000000	1.98220e-15	1.000000
rad23	1.09310e-16	1.000000	1.09323e-16	1.000000
rad60syn	2.40558e-17	1.000000	2.40587e-17	1.000000
rad18	1.60577e-17	1.000000	1.60596e-17	1.000000
PhCH2CCH+H	7.72821e-18	1.000000	7.72914e-18	1.000000
rad60anti	4.26706e-18	1.000000	4.26757e-18	1.000000
rad31	2.29747e-18	1.000000	2.29775e-18	1.000000
rad22	2.09250e-18	1.000000	2.09275e-18	1.000000
rad37	1.85579e-18	1.000000	1.85601e-18	1.000000
rad45	7.11660e-19	1.000000	7.11746e-19	1.000000
rad36	4.43805e-20	1.000000	4.43859e-20	1.000000
rad5	1.17854e-20	1.000000	1.17868e-20	1.000000
PAH3+H	1.32121e-21	1.000000	1.32137e-21	1.000000
rad59	5.06388e-22	1.000000	5.06450e-22	1.000000

rad24	2.45832e-22	1.00000	2.45861e-22	1.00000
rad50	2.96738e-23	1.00000	2.96774e-23	1.00000
rad19syn	1.22398e-25	1.00000	1.22413e-25	1.00000
rad54	5.45644e-28	1.00000	5.45710e-28	1.00000
PAH10+CH3	3.67361e-28	1.00000	3.67405e-28	1.00000
rad52	3.13060e-28	1.00000	3.13098e-28	1.00000
rad43	8.93552e-29	1.00000	8.93660e-29	1.00000
rad62	4.15605e-30	1.00000	4.15656e-30	1.00000
rad51	2.56193e-31	1.00000	2.56224e-31	1.00000
rad70	7.96712e-39	1.00000	7.96808e-39	1.00000
PhcycC3H3_A+H	3.95478e-39	1.00000	3.95526e-39	1.00000
rad55	2.07959e-39	1.00000	2.07984e-39	1.00000
rad65	5.51283e-41	1.00000	5.51349e-41	1.00000
rad58	1.52868e-42	1.00000	1.52886e-42	1.00000
PAH1+H	1.34067e-43	1.00000	1.34083e-43	1.00000
rad34	1.87894e-45	1.00000	1.87917e-45	1.00000
rad42	2.99108e-47	1.00000	2.99145e-47	1.00000
rad41	2.03930e-47	1.00000	2.03955e-47	1.00000
rad47	1.45212e-53	1.00000	1.45229e-53	1.00000

0.1000000000E-04 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76088e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999605	0.999605	0.999759	0.999759
rad6	0.000241325	0.999846	0.000241363	1.00000
Benzyl+C2H2	0.000153953	1.00000	0.00000	1.00000
rad2	8.41181e-08	1.00000	8.41311e-08	1.00000
rad7	1.78888e-08	1.00000	1.78916e-08	1.00000
rad28	7.19194e-09	1.00000	7.19305e-09	1.00000
rad1	5.71615e-09	1.00000	5.71703e-09	1.00000
rad10	4.41100e-09	1.00000	4.41168e-09	1.00000
rad11	4.39555e-09	1.00000	4.39622e-09	1.00000
rad26	1.48262e-09	1.00000	1.48285e-09	1.00000
PhCHCCH2+H	1.44593e-09	1.00000	1.44615e-09	1.00000
rad30	1.43871e-09	1.00000	1.43893e-09	1.00000
PhCCH+CH3	1.35859e-09	1.00000	1.35880e-09	1.00000
rad3	5.54959e-10	1.00000	5.55045e-10	1.00000
PhCCCH3+H	5.08530e-10	1.00000	5.08608e-10	1.00000
rad4	2.86115e-10	1.00000	2.86159e-10	1.00000
PAH9+H	2.42226e-10	1.00000	2.42263e-10	1.00000
rad35	2.13434e-10	1.00000	2.13467e-10	1.00000
rad13	1.01188e-10	1.00000	1.01204e-10	1.00000
rad15	7.83431e-11	1.00000	7.83552e-11	1.00000
rad38	3.38745e-11	1.00000	3.38797e-11	1.00000
rad8	1.82892e-12	1.00000	1.82920e-12	1.00000
Ph+MeAc	1.31797e-12	1.00000	1.31818e-12	1.00000
rad9	4.76001e-13	1.00000	4.76074e-13	1.00000
PAH7+H	2.59177e-13	1.00000	2.59217e-13	1.00000
rad33	1.94874e-13	1.00000	1.94904e-13	1.00000
rad12	2.76951e-14	1.00000	2.76994e-14	1.00000
Ph+Allene	2.66269e-14	1.00000	2.66310e-14	1.00000
rad27	2.38716e-14	1.00000	2.38752e-14	1.00000
rad39	2.10332e-14	1.00000	2.10365e-14	1.00000
rad46	1.26622e-14	1.00000	1.26641e-14	1.00000
rad25	3.98446e-15	1.00000	3.98507e-15	1.00000
rad20	3.17808e-15	1.00000	3.17856e-15	1.00000
rad14	2.86043e-15	1.00000	2.86087e-15	1.00000
rad21	2.02014e-15	1.00000	2.02045e-15	1.00000
rad23	1.10802e-16	1.00000	1.10819e-16	1.00000
rad60syn	9.89763e-17	1.00000	9.89916e-17	1.00000
PhCH2CCH+H	5.05089e-17	1.00000	5.05167e-17	1.00000
rad60anti	1.91538e-17	1.00000	1.9157e-17	1.00000
rad18	1.43874e-17	1.00000	1.43896e-17	1.00000
rad37	1.13823e-17	1.00000	1.13840e-17	1.00000
rad31	2.35610e-18	1.00000	2.35647e-18	1.00000
rad22	1.81686e-18	1.00000	1.81714e-18	1.00000
rad45	7.27984e-19	1.00000	7.28096e-19	1.00000
rad5	8.37812e-20	1.00000	8.37941e-20	1.00000
rad36	4.54965e-20	1.00000	4.55035e-20	1.00000
PAH3+H	1.05455e-20	1.00000	1.05472e-20	1.00000
rad59	3.92885e-21	1.00000	3.92945e-21	1.00000
rad24	2.47614e-22	1.00000	2.47652e-22	1.00000
rad50	2.28897e-22	1.00000	2.28932e-22	1.00000
rad19syn	1.82520e-24	1.00000	1.82549e-24	1.00000
rad54	1.37152e-26	1.00000	1.37173e-26	1.00000

PAH10+CH3	9.40089e-27	1.00000	9.40234e-27	1.00000
rad52	4.44080e-27	1.00000	4.44149e-27	1.00000
rad43	2.30269e-27	1.00000	2.30305e-27	1.00000
rad62	2.68723e-28	1.00000	2.68764e-28	1.00000
rad51	1.45636e-29	1.00000	1.45658e-29	1.00000
rad65	1.67714e-32	1.00000	1.67740e-32	1.00000
rad70	1.91783e-35	1.00000	1.91813e-35	1.00000
PhcycC3H3_A+H	9.56169e-36	1.00000	9.56316e-36	1.00000
rad55	5.03036e-36	1.00000	5.03113e-36	1.00000
rad58	3.68343e-39	1.00000	3.68399e-39	1.00000
PAH1+H	2.10607e-40	1.00000	2.10640e-40	1.00000
rad34	2.01412e-42	1.00000	2.01443e-42	1.00000
rad42	6.99839e-45	1.00000	6.99947e-45	1.00000
rad41	4.82516e-45	1.00000	4.82590e-45	1.00000
rad47	4.79961e-51	1.00000	4.80035e-51	1.00000

0.100000000E-04 Pa, 210.000000 K

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

Total | 8.30956e-27 (1.00) | 8.30794e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999574	0.999574	0.999769	0.999769
rad6	0.000230340	0.999804	0.000230385	0.999999
Benzyl+C2H2	0.000195467	1.000000	0.000000	0.999999
rad2	8.05017e-08	1.000000	8.05175e-08	0.999999
rad7	1.71129e-08	1.000000	1.71163e-08	0.999999
rad28	9.14298e-09	1.000000	9.14476e-09	0.999999
rad1	5.51671e-09	1.000000	5.51779e-09	0.999999
rad10	4.23452e-09	1.000000	4.23535e-09	1.000000
rad11	4.20690e-09	1.000000	4.20773e-09	1.000000
PhCCH+CH3	3.02303e-09	1.000000	3.02362e-09	1.000000
PhCHCCH2+H	2.98630e-09	1.000000	2.98689e-09	1.000000
rad30	2.20805e-09	1.000000	2.20848e-09	1.000000
rad26	1.84183e-09	1.000000	1.84219e-09	1.000000
PhCCCH3+H	1.13931e-09	1.000000	1.13954e-09	1.000000
rad3	5.31845e-10	1.000000	5.31949e-10	1.000000
PAH9+H	3.39616e-10	1.000000	3.39682e-10	1.000000
rad35	2.84794e-10	1.000000	2.84849e-10	1.000000
rad4	2.74852e-10	1.000000	2.74906e-10	1.000000
rad15	1.39174e-10	1.000000	1.39202e-10	1.000000
rad13	9.69571e-11	1.000000	9.69761e-11	1.000000
rad38	5.12311e-11	1.000000	5.12411e-11	1.000000
rad8	4.71184e-12	1.000000	4.71276e-12	1.000000
Ph+MeAc	4.46616e-12	1.000000	4.46704e-12	1.000000
rad9	1.37969e-12	1.000000	1.37996e-12	1.000000
PAH7+H	7.67727e-13	1.000000	7.67877e-13	1.000000
rad33	1.87086e-13	1.000000	1.87122e-13	1.000000
Ph+Allene	1.06033e-13	1.000000	1.06054e-13	1.000000
rad12	8.32756e-14	1.000000	8.32919e-14	1.000000
rad39	6.96275e-14	1.000000	6.96411e-14	1.000000
rad46	2.89966e-14	1.000000	2.90023e-14	1.000000
rad27	2.62819e-14	1.000000	2.62870e-14	1.000000
rad25	5.16150e-15	1.000000	5.16251e-15	1.000000
rad14	3.90280e-15	1.000000	3.90357e-15	1.000000
rad20	2.87693e-15	1.000000	2.87750e-15	1.000000
rad21	1.83255e-15	1.000000	1.83291e-15	1.000000
rad60syn	3.56769e-16	1.000000	3.56839e-16	1.000000
PhCH2CCH+H	2.77642e-16	1.000000	2.77697e-16	1.000000
rad23	1.17631e-16	1.000000	1.17654e-16	1.000000
rad60anti	7.46097e-17	1.000000	7.46243e-17	1.000000
rad37	5.82376e-17	1.000000	5.82490e-17	1.000000
rad18	1.29036e-17	1.000000	1.29061e-17	1.000000
rad31	2.40185e-18	1.000000	2.40232e-18	1.000000
rad22	1.58097e-18	1.000000	1.58127e-18	1.000000
rad45	7.82156e-19	1.000000	7.82309e-19	1.000000
rad5	4.94537e-19	1.000000	4.94634e-19	1.000000
PAH3+H	6.92407e-20	1.000000	6.92543e-20	1.000000
rad36	4.90073e-20	1.000000	4.90169e-20	1.000000
rad59	2.51008e-20	1.000000	2.51057e-20	1.000000
rad50	1.46375e-21	1.000000	1.46403e-21	1.000000
rad24	2.50893e-22	1.000000	2.50942e-22	1.000000
rad19syn	2.00801e-23	1.000000	2.00840e-23	1.000000
rad54	1.94312e-25	1.000000	1.94350e-25	1.000000
PAH10+CH3	1.33341e-25	1.000000	1.33367e-25	1.000000
rad52	4.73526e-26	1.000000	4.73618e-26	1.000000
rad43	3.24682e-26	1.000000	3.24746e-26	1.000000
rad62	4.87655e-27	1.000000	4.87750e-27	1.000000

rad51	2.76098e-28	1.000000	2.76152e-28	1.000000
rad70	4.15008e-29	1.000000	4.15089e-29	1.000000
PhcycC3H3_A+H	3.67768e-29	1.000000	3.67840e-29	1.000000
rad55	1.45174e-29	1.000000	1.45202e-29	1.000000
rad58	1.88404e-30	1.000000	1.88441e-30	1.000000
rad65	8.86433e-31	1.000000	8.86606e-31	1.000000
PAH1+H	5.49756e-37	1.000000	5.49864e-37	1.000000
rad34	5.07942e-39	1.000000	5.08041e-39	1.000000
rad42	2.00310e-42	1.000000	2.00349e-42	1.000000
rad41	9.12520e-43	1.000000	9.12698e-43	1.000000
rad47	4.20686e-48	1.000000	4.20768e-48	1.000000

0.100000000E-04 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.40057e-26 (1.00)	3.39973e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999535	0.999535	0.999782	0.999782
Benzyl+C2H2	0.000247044	0.999782	0.00000	0.999782
rad6	0.000217628	1.000000	0.000217682	1.000000
rad2	7.63257e-08	1.000000	7.63446e-08	1.000000
rad7	1.62061e-08	1.000000	1.62101e-08	1.000000
rad28	1.11585e-08	1.000000	1.11612e-08	1.000000
PhCCH+CH3	6.32348e-09	1.000000	6.32505e-09	1.000000
PhCHCCH2+H	5.84142e-09	1.000000	5.84287e-09	1.000000
rad1	5.27852e-09	1.000000	5.27983e-09	1.000000
rad10	4.02345e-09	1.000000	4.02444e-09	1.000000
rad11	3.98596e-09	1.000000	3.98695e-09	1.000000
rad30	3.30373e-09	1.000000	3.30455e-09	1.000000
PhCCCH3+H	2.39248e-09	1.000000	2.39307e-09	1.000000
rad26	2.19894e-09	1.000000	2.19949e-09	1.000000
rad3	5.04126e-10	1.000000	5.04250e-10	1.000000
PAH9+H	4.73098e-10	1.000000	4.73214e-10	1.000000
rad35	3.78876e-10	1.000000	3.78970e-10	1.000000
rad4	2.61204e-10	1.000000	2.61269e-10	1.000000
rad15	2.37222e-10	1.000000	2.37281e-10	1.000000
rad13	9.19761e-11	1.000000	9.19989e-11	1.000000
rad38	7.63391e-11	1.000000	7.63580e-11	1.000000
Ph+MeAc	1.36102e-11	1.000000	1.36135e-11	1.000000
rad8	1.12041e-11	1.000000	1.12069e-11	1.000000
rad9	3.65124e-12	1.000000	3.65214e-12	1.000000
PAH7+H	2.07147e-12	1.000000	2.07199e-12	1.000000
Ph+Allene	3.74827e-13	1.000000	3.74920e-13	1.000000
rad12	2.27061e-13	1.000000	2.27117e-13	1.000000
rad39	2.07805e-13	1.000000	2.07856e-13	1.000000
rad33	1.77836e-13	1.000000	1.77880e-13	1.000000
rad46	6.24859e-14	1.000000	6.25013e-14	1.000000
rad27	2.81519e-14	1.000000	2.81589e-14	1.000000
rad25	6.39981e-15	1.000000	6.40139e-15	1.000000
rad14	5.07154e-15	1.000000	5.07279e-15	1.000000
rad20	2.60942e-15	1.000000	2.61006e-15	1.000000
rad21	1.66589e-15	1.000000	1.66630e-15	1.000000
PhCH2CCH+H	1.31432e-15	1.000000	1.31464e-15	1.000000
rad60syn	1.14775e-15	1.000000	1.14804e-15	1.000000
rad60anti	2.57259e-16	1.000000	2.57322e-16	1.000000
rad37	2.54866e-16	1.000000	2.54928e-16	1.000000
rad23	1.31018e-16	1.000000	1.31050e-16	1.000000
rad18	1.15826e-17	1.000000	1.15855e-17	1.000000
rad5	2.48569e-18	1.000000	2.48631e-18	1.000000
rad31	2.43619e-18	1.000000	2.43679e-18	1.000000
rad22	1.37831e-18	1.000000	1.37866e-18	1.000000
rad45	8.84009e-19	1.000000	8.84227e-19	1.000000
PAH3+H	3.84312e-19	1.000000	3.84407e-19	1.000000
rad59	1.35685e-19	1.000000	1.35719e-19	1.000000
rad36	5.55552e-20	1.000000	5.55689e-20	1.000000
rad50	7.96590e-21	1.000000	7.96787e-21	1.000000
rad24	2.55744e-22	1.000000	2.55807e-22	1.000000
rad19syn	1.76796e-22	1.000000	1.76840e-22	1.000000
rad54	2.07915e-24	1.000000	2.07967e-24	1.000000
PAH10+CH3	1.42531e-24	1.000000	1.42566e-24	1.000000
rad52	4.06722e-25	1.000000	4.06822e-25	1.000000
rad43	3.45408e-25	1.000000	3.45494e-25	1.000000
rad62	5.97311e-26	1.000000	5.97459e-26	1.000000
rad51	3.50353e-27	1.000000	3.50439e-27	1.000000
PhcycC3H3_A+H	9.87065e-28	1.000000	9.87309e-28	1.000000
rad70	8.97411e-28	1.000000	8.97632e-28	1.000000
rad55	3.38152e-28	1.000000	3.38235e-28	1.000000

rad58	5.59629e-29	1.000000	5.59767e-29	1.000000
rad65	1.55276e-29	1.000000	1.55314e-29	1.000000
PAH1+H	3.10927e-30	1.000000	3.11004e-30	1.000000
rad34	2.04131e-36	1.000000	2.04182e-36	1.000000
rad42	4.73523e-40	1.000000	4.73640e-40	1.000000
rad47	1.49504e-40	1.000000	1.49541e-40	1.000000
rad41	1.11525e-40	1.000000	1.11552e-40	1.000000

0.100000000E-04 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22933e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999485	0.999485	0.999796	0.999796
Benzyl+C2H2	0.000310766	0.999796	0.00000	0.999796
rad6	0.000203585	0.999999	0.000203648	1.000000
rad2	7.16055e-08	0.999999	7.16278e-08	1.000000
rad7	1.51967e-08	0.999999	1.52014e-08	1.000000
rad28	1.31350e-08	0.999999	1.31391e-08	1.000000
PhCCH+CH3	1.25299e-08	0.999999	1.25338e-08	1.000000
PhCHCCH2+H	1.08943e-08	0.999999	1.08977e-08	1.000000
rad1	5.00128e-09	0.999999	5.00283e-09	1.000000
rad30	4.83547e-09	0.999999	4.83697e-09	1.000000
PhCCCH3+H	4.74733e-09	0.999999	4.74881e-09	1.000000
rad10	3.78489e-09	0.999999	3.78607e-09	1.000000
rad11	3.73965e-09	0.999999	3.74081e-09	1.000000
rad26	2.53497e-09	0.999999	2.53576e-09	1.000000
PAH9+H	6.54923e-10	0.999999	6.55127e-10	1.000000
rad35	5.02338e-10	1.000000	5.02495e-10	1.000000
rad3	4.73602e-10	1.000000	4.73749e-10	1.000000
rad15	3.90170e-10	1.000000	3.90292e-10	1.000000
rad4	2.46083e-10	1.000000	2.46159e-10	1.000000
rad38	1.12242e-10	1.000000	1.12277e-10	1.000000
rad13	8.64020e-11	1.000000	8.64289e-11	1.000000
Ph+MeAc	3.78067e-11	1.000000	3.78184e-11	1.000000
rad8	2.48505e-11	1.000000	2.48582e-11	1.000000
rad9	8.92846e-12	1.000000	8.93124e-12	1.000000
PAH7+H	5.15539e-12	1.000000	5.15699e-12	1.000000
Ph+Allene	1.19471e-12	1.000000	1.19508e-12	1.000000
rad12	5.68647e-13	1.000000	5.68824e-13	1.000000
rad39	5.66794e-13	1.000000	5.66970e-13	1.000000
rad33	1.67419e-13	1.000000	1.67471e-13	1.000000
rad46	1.27775e-13	1.000000	1.27815e-13	1.000000
rad27	2.94322e-14	1.000000	2.94414e-14	1.000000
rad25	7.63693e-15	1.000000	7.63930e-15	1.000000
rad14	6.31514e-15	1.000000	6.31711e-15	1.000000
PhCH2CCH+H	5.46360e-15	1.000000	5.46530e-15	1.000000
rad60syn	3.34625e-15	1.000000	3.34729e-15	1.000000
rad20	2.37133e-15	1.000000	2.37207e-15	1.000000
rad21	1.51755e-15	1.000000	1.51802e-15	1.000000
rad37	9.73923e-16	1.000000	9.74226e-16	1.000000
rad60anti	7.98151e-16	1.000000	7.98399e-16	1.000000
rad23	1.53112e-16	1.000000	1.53159e-16	1.000000
rad5	1.08621e-17	1.000000	1.08655e-17	1.000000
rad18	1.04047e-17	1.000000	1.04079e-17	1.000000
rad31	2.46078e-18	1.000000	2.46154e-18	1.000000
PAH3+H	1.84375e-18	1.000000	1.84432e-18	1.000000
rad22	1.20376e-18	1.000000	1.20414e-18	1.000000
rad45	1.05287e-18	1.000000	1.05319e-18	1.000000
rad59	6.34525e-19	1.000000	6.34722e-19	1.000000
rad36	6.63965e-20	1.000000	6.64172e-20	1.000000
rad50	3.76904e-20	1.000000	3.77021e-20	1.000000
rad19syn	1.28681e-21	1.000000	1.28721e-21	1.000000
rad24	2.62290e-22	1.000000	2.62372e-22	1.000000
rad54	1.79666e-23	1.000000	1.79722e-23	1.000000
PAH10+CH3	1.22743e-23	1.000000	1.22781e-23	1.000000
rad43	2.95783e-24	1.000000	2.95875e-24	1.000000
rad52	2.90478e-24	1.000000	2.90568e-24	1.000000
rad62	5.74591e-25	1.000000	5.74770e-25	1.000000
rad51	3.51923e-26	1.000000	3.52033e-26	1.000000
PhcycC3H3_A+H	1.69389e-26	1.000000	1.69442e-26	1.000000
rad70	1.30478e-26	1.000000	1.30519e-26	1.000000
rad55	5.18375e-27	1.000000	5.18536e-27	1.000000
rad58	1.02415e-27	1.000000	1.02446e-27	1.000000
PAH1+H	2.23668e-28	1.000000	2.23737e-28	1.000000
rad65	2.00231e-28	1.000000	2.00293e-28	1.000000
rad34	1.06742e-29	1.000000	1.06776e-29	1.000000

rad42	4.44128e-32	1.000000	4.44266e-32	1.000000
rad41	7.74431e-33	1.000000	7.74671e-33	1.000000
rad47	2.02044e-39	1.000000	2.02107e-39	1.000000

0.100000000E-04 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.98936e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999422	0.999422	0.999811	0.999811
Benzyl+C2H2	0.000389043	0.999811	0.00000	0.999811
rad6	0.000188624	1.000000	0.000188698	1.000000
rad2	6.64706e-08	1.000000	6.64965e-08	1.000000
PhCCH+CH3	2.36683e-08	1.000000	2.36775e-08	1.000000
PhCHCCH2+H	1.94794e-08	1.000000	1.94869e-08	1.000000
rad28	1.49726e-08	1.000000	1.49784e-08	1.000000
rad7	1.41148e-08	1.000000	1.41203e-08	1.000000
PhCCCH3+H	8.96104e-09	1.000000	8.96453e-09	1.000000
rad30	6.94205e-09	1.000000	6.94475e-09	1.000000
rad1	4.69250e-09	1.000000	4.69433e-09	1.000000
rad10	3.52465e-09	1.000000	3.52603e-09	1.000000
rad11	3.47531e-09	1.000000	3.47666e-09	1.000000
rad26	2.83310e-09	1.000000	2.83420e-09	1.000000
PAH9+H	9.01039e-10	1.000000	9.01390e-10	1.000000
rad35	6.63558e-10	1.000000	6.63816e-10	1.000000
rad15	6.22100e-10	1.000000	6.22342e-10	1.000000
rad3	4.40091e-10	1.000000	4.40262e-10	1.000000
rad4	2.29373e-10	1.000000	2.29462e-10	1.000000
rad38	1.63026e-10	1.000000	1.63090e-10	1.000000
Ph+MeAc	9.68146e-11	1.000000	9.68523e-11	1.000000
rad13	8.04019e-11	1.000000	8.04332e-11	1.000000
rad8	5.18620e-11	1.000000	5.18822e-11	1.000000
rad9	2.03754e-11	1.000000	2.03833e-11	1.000000
PAH7+H	1.19581e-11	1.000000	1.19628e-11	1.000000
Ph+Allene	3.47827e-12	1.000000	3.47963e-12	1.000000
rad39	1.42886e-12	1.000000	1.42942e-12	1.000000
rad12	1.32202e-12	1.000000	1.32253e-12	1.000000
rad46	2.49634e-13	1.000000	2.49732e-13	1.000000
rad33	1.56149e-13	1.000000	1.56210e-13	1.000000
rad27	3.01143e-14	1.000000	3.01260e-14	1.000000
PhCH2CCH+H	2.02707e-14	1.000000	2.02785e-14	1.000000
rad60syn	8.95429e-15	1.000000	8.95778e-15	1.000000
rad25	8.81096e-15	1.000000	8.81439e-15	1.000000
rad14	7.57424e-15	1.000000	7.57719e-15	1.000000
rad37	3.30617e-15	1.000000	3.30745e-15	1.000000
rad60anti	2.25866e-15	1.000000	2.25953e-15	1.000000
rad20	2.15914e-15	1.000000	2.15998e-15	1.000000
rad21	1.38534e-15	1.000000	1.38588e-15	1.000000
rad23	1.87454e-16	1.000000	1.87527e-16	1.000000
rad5	4.19875e-17	1.000000	4.20038e-17	1.000000
rad18	9.35307e-18	1.000000	9.35671e-18	1.000000
PAH3+H	7.78862e-18	1.000000	7.79165e-18	1.000000
rad59	2.61498e-18	1.000000	2.61600e-18	1.000000
rad31	2.47763e-18	1.000000	2.47860e-18	1.000000
rad45	1.32074e-18	1.000000	1.32125e-18	1.000000
rad22	1.05319e-18	1.000000	1.05360e-18	1.000000
rad50	1.57823e-19	1.000000	1.57884e-19	1.000000
rad36	8.36201e-20	1.000000	8.36526e-20	1.000000
rad19syn	7.93125e-21	1.000000	7.93434e-21	1.000000
rad24	2.70706e-22	1.000000	2.70811e-22	1.000000
rad54	1.28739e-22	1.000000	1.28789e-22	1.000000
PAH10+CH3	8.76197e-23	1.000000	8.76538e-23	1.000000
rad43	2.10001e-23	1.000000	2.10083e-23	1.000000
rad52	1.76521e-23	1.000000	1.76590e-23	1.000000
rad62	4.48320e-24	1.000000	4.48495e-24	1.000000
rad51	2.84575e-25	1.000000	2.84686e-25	1.000000
PhcycC3H3_A+H	1.83494e-25	1.000000	1.83566e-25	1.000000
rad70	1.30434e-25	1.000000	1.30485e-25	1.000000
rad55	5.31863e-26	1.000000	5.32070e-26	1.000000
rad58	1.13976e-26	1.000000	1.14020e-26	1.000000
PAH1+H	3.49019e-27	1.000000	3.49155e-27	1.000000
rad65	1.89688e-27	1.000000	1.89762e-27	1.000000
rad34	2.02062e-28	1.000000	2.02140e-28	1.000000
rad42	2.62672e-30	1.000000	2.62774e-30	1.000000
rad41	7.56110e-31	1.000000	7.56404e-31	1.000000
rad47	1.87587e-38	1.000000	1.87660e-38	1.000000

0.100000000E-04 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17706e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999342	0.999342	0.999827	0.999827
Benzyl+C2H2	0.000484657	0.999827	0.00000	0.999827
rad6	0.000173154	1.000000	0.000173238	1.00000
rad2	6.11904e-08	1.000000	6.12201e-08	1.00000
PhCCH+CH3	4.28451e-08	1.000000	4.28658e-08	1.00000
PhCHCCH2+H	3.35460e-08	1.000000	3.35623e-08	1.00000
rad28	1.65842e-08	1.000000	1.65922e-08	1.00000
PhCCCH3+H	1.61811e-08	1.000000	1.61889e-08	1.00000
rad7	1.29902e-08	1.000000	1.29965e-08	1.00000
rad30	9.79700e-09	1.000000	9.80175e-09	1.00000
rad1	4.36984e-09	1.000000	4.37196e-09	1.00000
rad10	3.25345e-09	1.000000	3.25503e-09	1.00000
rad11	3.20025e-09	1.000000	3.20180e-09	1.00000
rad26	3.08006e-09	1.000000	3.08155e-09	1.00000
PAH9+H	1.23203e-09	1.000000	1.23263e-09	1.00000
rad15	9.65196e-10	1.000000	9.65664e-10	1.00000
rad35	8.73004e-10	1.000000	8.73427e-10	1.00000
rad3	4.05425e-10	1.000000	4.05622e-10	1.00000
rad38	2.34119e-10	1.000000	2.34233e-10	1.00000
Ph+MeAc	2.30719e-10	1.000000	2.30831e-10	1.00000
rad4	2.12009e-10	1.000000	2.12112e-10	1.00000
rad8	1.02584e-10	1.000000	1.02634e-10	1.00000
rad13	7.41422e-11	1.000000	7.41782e-11	1.00000
rad9	4.37562e-11	1.000000	4.37774e-11	1.00000
PAH7+H	2.60762e-11	1.000000	2.60889e-11	1.00000
Ph+Allene	9.35100e-12	1.000000	9.35553e-12	1.00000
rad39	3.36093e-12	1.000000	3.36256e-12	1.00000
rad12	2.87859e-12	1.000000	2.87999e-12	1.00000
rad46	4.68593e-13	1.000000	4.68820e-13	1.00000
rad33	1.44340e-13	1.000000	1.44410e-13	1.00000
PhCH2CCH+H	6.80431e-14	1.000000	6.80761e-14	1.00000
rad27	3.02245e-14	1.000000	3.02392e-14	1.00000
rad60syn	2.22272e-14	1.000000	2.22379e-14	1.00000
rad37	1.01157e-14	1.000000	1.01206e-14	1.00000
rad25	9.86658e-15	1.000000	9.87136e-15	1.00000
rad14	8.78805e-15	1.000000	8.79231e-15	1.00000
rad60anti	5.89682e-15	1.000000	5.89968e-15	1.00000
rad20	1.96986e-15	1.000000	1.97082e-15	1.00000
rad21	1.26741e-15	1.000000	1.26803e-15	1.00000
rad23	2.39799e-16	1.000000	2.39916e-16	1.00000
rad5	1.45673e-16	1.000000	1.45743e-16	1.00000
PAH3+H	2.94243e-17	1.000000	2.94386e-17	1.00000
rad59	9.64550e-18	1.000000	9.65017e-18	1.00000
rad18	8.41357e-18	1.000000	8.41765e-18	1.00000
rad31	2.48952e-18	1.000000	2.49073e-18	1.00000
rad45	1.74048e-18	1.000000	1.74132e-18	1.00000
rad22	9.23277e-19	1.000000	9.23724e-19	1.00000
rad50	5.93637e-19	1.000000	5.93925e-19	1.00000
rad36	1.10692e-19	1.000000	1.10746e-19	1.00000
rad19syn	4.22739e-20	1.000000	4.22944e-20	1.00000
rad54	7.86739e-22	1.000000	7.87121e-22	1.00000
PAH10+CH3	5.33090e-22	1.000000	5.33349e-22	1.00000
rad24	2.81222e-22	1.000000	2.81358e-22	1.00000
rad43	1.27021e-22	1.000000	1.27082e-22	1.00000
rad52	9.31754e-23	1.000000	9.32206e-23	1.00000
rad62	2.94957e-23	1.000000	2.95100e-23	1.00000
rad51	1.93290e-24	1.000000	1.93384e-24	1.00000
PhcycC3H3_A+H	1.51483e-24	1.000000	1.51557e-24	1.00000
rad70	1.03241e-24	1.000000	1.03291e-24	1.00000
rad55	4.27156e-25	1.000000	4.27363e-25	1.00000
rad58	9.52951e-26	1.000000	9.53413e-26	1.00000
PAH1+H	3.26066e-26	1.000000	3.26225e-26	1.00000
rad65	1.44854e-26	1.000000	1.44924e-26	1.00000
rad34	1.95406e-27	1.000000	1.95501e-27	1.00000
rad42	2.76644e-29	1.000000	2.76778e-29	1.00000
rad41	8.02591e-30	1.000000	8.02981e-30	1.00000
rad47	1.43631e-37	1.000000	1.43700e-37	1.00000

0.100000000E-04 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 3.19452e-24 (1.00) 3.19260e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999241	0.999241	0.999842	0.999842
Benzyl+C2H2	0.000600783	0.999842	0.00000	0.999842
rad6	0.000157552	0.999999	0.000157646	1.000000
PhCCH+CH3	7.46582e-08	0.999999	7.47031e-08	1.000000
PhCHCCH2+H	5.58567e-08	0.999999	5.58902e-08	1.000000
rad2	5.58021e-08	1.000000	5.58356e-08	1.000000
PhCCCH3+H	2.80827e-08	1.000000	2.80996e-08	1.000000
rad28	1.79023e-08	1.000000	1.79131e-08	1.000000
rad30	1.36150e-08	1.000000	1.36232e-08	1.000000
rad7	1.18508e-08	1.000000	1.18579e-08	1.000000
rad1	4.03484e-09	1.000000	4.03727e-09	1.000000
rad26	3.26690e-09	1.000000	3.26886e-09	1.000000
rad10	2.97648e-09	1.000000	2.97827e-09	1.000000
rad11	2.92131e-09	1.000000	2.92307e-09	1.000000
PAH9+H	1.67428e-09	1.000000	1.67529e-09	1.000000
rad15	1.46175e-09	1.000000	1.46263e-09	1.000000
rad35	1.14367e-09	1.000000	1.14436e-09	1.000000
Ph+MeAc	5.15781e-10	1.000000	5.16091e-10	1.000000
rad3	3.70340e-10	1.000000	3.70563e-10	1.000000
rad38	3.32666e-10	1.000000	3.32866e-10	1.000000
rad4	1.94359e-10	1.000000	1.94476e-10	1.000000
rad8	1.93500e-10	1.000000	1.93616e-10	1.000000
rad9	8.90465e-11	1.000000	8.91000e-11	1.000000
rad13	6.77799e-11	1.000000	6.78207e-11	1.000000
PAH7+H	5.38471e-11	1.000000	5.38795e-11	1.000000
Ph+Allene	2.34277e-11	1.000000	2.34418e-11	1.000000
rad39	7.43525e-12	1.000000	7.43972e-12	1.000000
rad12	5.91446e-12	1.000000	5.91801e-12	1.000000
rad46	8.49056e-13	1.000000	8.49566e-13	1.000000
PhCH2CCH+H	2.09040e-13	1.000000	2.09165e-13	1.000000
rad33	1.32293e-13	1.000000	1.32372e-13	1.000000
rad60syn	5.16423e-14	1.000000	5.16734e-14	1.000000
rad27	2.98161e-14	1.000000	2.98340e-14	1.000000
rad37	2.82395e-14	1.000000	2.82565e-14	1.000000
rad60anti	1.43405e-14	1.000000	1.43492e-14	1.000000
rad25	1.07594e-14	1.000000	1.07658e-14	1.000000
rad14	9.90032e-15	1.000000	9.90627e-15	1.000000
rad20	1.80092e-15	1.000000	1.80200e-15	1.000000
rad21	1.16217e-15	1.000000	1.16287e-15	1.000000
rad5	4.59232e-16	1.000000	4.59508e-16	1.000000
rad23	3.19483e-16	1.000000	3.19675e-16	1.000000
PAH3+H	1.00723e-16	1.000000	1.00784e-16	1.000000
rad59	3.22622e-17	1.000000	3.22816e-17	1.000000
rad18	7.57382e-18	1.000000	7.57838e-18	1.000000
rad31	2.49895e-18	1.000000	2.50046e-18	1.000000
rad45	2.40481e-18	1.000000	2.40626e-18	1.000000
rad50	2.03113e-18	1.000000	2.03235e-18	1.000000
rad22	8.11378e-19	1.000000	8.11865e-19	1.000000
rad19syn	1.98194e-19	1.000000	1.98314e-19	1.000000
rad36	1.53719e-19	1.000000	1.53812e-19	1.000000
rad54	4.18268e-21	1.000000	4.18520e-21	1.000000
PAH10+CH3	2.81830e-21	1.000000	2.81999e-21	1.000000
rad43	6.67166e-22	1.000000	6.67567e-22	1.000000
rad52	4.34411e-22	1.000000	4.34672e-22	1.000000
rad24	2.94139e-22	1.000000	2.94316e-22	1.000000
rad62	1.67391e-22	1.000000	1.67491e-22	1.000000
rad51	1.13377e-23	1.000000	1.13445e-23	1.000000
PhcycC3H3_A+H	1.04988e-23	1.000000	1.05051e-23	1.000000
rad70	6.90229e-24	1.000000	6.90644e-24	1.000000
rad55	2.89209e-24	1.000000	2.89383e-24	1.000000
rad58	6.67420e-25	1.000000	6.67821e-25	1.000000
PAH1+H	2.48957e-25	1.000000	2.49107e-25	1.000000
rad65	9.40612e-26	1.000000	9.41178e-26	1.000000
rad34	1.53044e-26	1.000000	1.53136e-26	1.000000
rad42	2.29631e-28	1.000000	2.29769e-28	1.000000
rad41	6.71427e-29	1.000000	6.71830e-29	1.000000
rad47	9.26850e-37	1.000000	9.27408e-37	1.000000

0.100000000E-04 Pa, 270.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.03545e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.999116	0.999116	0.999857	0.999857
Benzyl+C2H2	0.000741028	0.999857	0.00000	0.999857
rad6	0.000142153	0.999999	0.000142259	0.999999
PhCCH+CH3	1.25697e-07	0.999999	1.25791e-07	0.999999
PhCHCCH2+H	9.02176e-08	0.999999	9.02845e-08	0.999999
rad2	5.04975e-08	0.999999	5.05350e-08	1.000000
PhCCCH3+H	4.70309e-08	0.999999	4.70658e-08	1.000000
rad28	1.88824e-08	1.000000	1.88964e-08	1.000000
rad30	1.86587e-08	1.000000	1.86725e-08	1.000000
rad7	1.07216e-08	1.000000	1.07295e-08	1.000000
rad1	3.70037e-09	1.000000	3.70312e-09	1.000000
rad26	3.38913e-09	1.000000	3.39164e-09	1.000000
rad10	2.70104e-09	1.000000	2.70304e-09	1.000000
rad11	2.64462e-09	1.000000	2.64658e-09	1.000000
PAH9+H	2.26131e-09	1.000000	2.26298e-09	1.000000
rad15	2.16648e-09	1.000000	2.16808e-09	1.000000
rad35	1.49158e-09	1.000000	1.49268e-09	1.000000
Ph+MeAc	1.08901e-09	1.000000	1.08982e-09	1.000000
rad38	4.67976e-10	1.000000	4.68323e-10	1.000000
rad8	3.49859e-10	1.000000	3.50118e-10	1.000000
rad3	3.35401e-10	1.000000	3.35649e-10	1.000000
rad4	1.76707e-10	1.000000	1.76838e-10	1.000000
rad9	1.72750e-10	1.000000	1.72878e-10	1.000000
PAH7+H	1.05946e-10	1.000000	1.06024e-10	1.000000
rad13	6.14556e-11	1.000000	6.15011e-11	1.000000
Ph+Allene	5.51272e-11	1.000000	5.51681e-11	1.000000
rad39	1.55755e-11	1.000000	1.55870e-11	1.000000
rad12	1.15395e-11	1.000000	1.15480e-11	1.000000
rad46	1.49075e-12	1.000000	1.49185e-12	1.000000
PhCH2CCH+H	5.93545e-13	1.000000	5.93985e-13	1.000000
rad33	1.20275e-13	1.000000	1.20365e-13	1.000000
rad60syn	1.13160e-13	1.000000	1.13244e-13	1.000000
rad37	7.26837e-14	1.000000	7.27376e-14	1.000000
rad60anti	3.27520e-14	1.000000	3.27763e-14	1.000000
rad27	2.89600e-14	1.000000	2.89815e-14	1.000000
rad25	1.14582e-14	1.000000	1.14667e-14	1.000000
rad14	1.08639e-14	1.000000	1.08719e-14	1.000000
rad20	1.65008e-15	1.000000	1.65130e-15	1.000000
rad5	1.32932e-15	1.000000	1.33031e-15	1.000000
rad21	1.06823e-15	1.000000	1.06903e-15	1.000000
rad23	4.41763e-16	1.000000	4.42091e-16	1.000000
PAH3+H	3.15912e-16	1.000000	3.16146e-16	1.000000
rad59	9.89461e-17	1.000000	9.90195e-17	1.000000
rad18	6.82305e-18	1.000000	6.82811e-18	1.000000
rad50	6.38911e-18	1.000000	6.39385e-18	1.000000
rad45	3.47567e-18	1.000000	3.47825e-18	1.000000
rad31	2.50881e-18	1.000000	2.51067e-18	1.000000
rad19syn	8.29140e-19	1.000000	8.29755e-19	1.000000
rad22	7.15417e-19	1.000000	7.15947e-19	1.000000
rad36	2.23429e-19	1.000000	2.23595e-19	1.000000
rad54	1.96542e-20	1.000000	1.96688e-20	1.000000
PAH10+CH3	1.31519e-20	1.000000	1.31617e-20	1.000000
rad43	3.09121e-21	1.000000	3.09350e-21	1.000000
rad52	1.81420e-21	1.000000	1.81555e-21	1.000000
rad62	8.33468e-22	1.000000	8.34086e-22	1.000000
rad24	3.09839e-22	1.000000	3.10069e-22	1.000000
PhcycC3H3_A+H	6.28433e-23	1.000000	6.28899e-23	1.000000
rad51	5.84528e-23	1.000000	5.84962e-23	1.000000
rad70	3.99447e-23	1.000000	3.99743e-23	1.000000
rad55	1.69371e-23	1.000000	1.69497e-23	1.000000
rad58	4.03354e-24	1.000000	4.03653e-24	1.000000
PAH1+H	1.62731e-24	1.000000	1.62852e-24	1.000000
rad65	5.31208e-25	1.000000	5.31602e-25	1.000000
rad34	1.02479e-25	1.000000	1.02555e-25	1.000000
rad42	1.63123e-27	1.000000	1.63244e-27	1.000000
rad41	4.81358e-28	1.000000	4.81715e-28	1.000000
rad47	5.14497e-36	1.000000	5.14878e-36	1.000000

0.100000000E-04 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89185e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998963	0.998963	0.999872	0.999872
Benzyl+C2H2	0.000909456	0.999872	0.00000	0.999872
rad6	0.000127239	1.000000	0.000127355	0.999999
PhCCH+CH3	2.05133e-07	1.000000	2.05320e-07	1.000000

PhCCCH2+H	1.41741e-07	1.00000	1.41870e-07	1.000000
PhCCCH3+H	7.62629e-08	1.00000	7.63323e-08	1.000000
rad2	4.53411e-08	1.00000	4.53824e-08	1.000000
rad30	2.52466e-08	1.00000	2.52696e-08	1.000000
rad28	1.95036e-08	1.00000	1.95214e-08	1.000000
rad7	9.62361e-09	1.00000	9.63237e-09	1.000000
rad26	3.44646e-09	1.00000	3.44960e-09	1.000000
rad1	3.37044e-09	1.00000	3.37351e-09	1.000000
rad15	3.14918e-09	1.00000	3.15204e-09	1.000000
PAH9+H	3.03538e-09	1.00000	3.03814e-09	1.000000
rad10	2.43272e-09	1.00000	2.43493e-09	1.000000
rad11	2.37535e-09	1.00000	2.37751e-09	1.000000
Ph+MeAc	2.18432e-09	1.00000	2.18630e-09	1.000000
rad35	1.93633e-09	1.00000	1.93809e-09	1.000000
rad38	6.52072e-10	1.00000	6.52665e-10	1.000000
rad8	6.09007e-10	1.00000	6.09561e-10	1.000000
rad9	3.21099e-10	1.00000	3.21391e-10	1.000000
rad3	3.01657e-10	1.00000	3.01932e-10	1.000000
PAH7+H	1.99650e-10	1.00000	1.99831e-10	1.000000
rad4	1.59595e-10	1.00000	1.59740e-10	1.000000
Ph+Allene	1.22647e-10	1.00000	1.22759e-10	1.000000
rad13	5.52889e-11	1.00000	5.53393e-11	1.000000
rad39	3.10749e-11	1.00000	3.11032e-11	1.000000
rad12	2.14947e-11	1.00000	2.15143e-11	1.000000
rad46	2.54452e-12	1.00000	2.54683e-12	1.000000
PhCH2CCH+H	1.57072e-12	1.00000	1.57215e-12	1.000000
rad60syn	2.35372e-13	1.00000	2.35587e-13	1.000000
rad37	1.74026e-13	1.00000	1.74184e-13	1.000000
rad33	1.08519e-13	1.00000	1.08618e-13	1.000000
rad60anti	7.07393e-14	1.00000	7.08037e-14	1.000000
rad27	2.77373e-14	1.00000	2.77625e-14	1.000000
rad25	1.19461e-14	1.00000	1.19569e-14	1.000000
rad14	1.16436e-14	1.00000	1.16542e-14	1.000000
rad5	3.56511e-15	1.00000	3.56836e-15	1.000000
rad20	1.51542e-15	1.00000	1.51680e-15	1.000000
rad21	9.84419e-16	1.00000	9.85315e-16	1.000000
PAH3+H	9.16506e-16	1.00000	9.17340e-16	1.000000
rad23	6.31798e-16	1.00000	6.32373e-16	1.000000
rad59	2.80899e-16	1.00000	2.81155e-16	1.000000
rad50	1.86453e-17	1.00000	1.86622e-17	1.000000
rad18	6.15178e-18	1.00000	6.15738e-18	1.000000
rad45	5.25161e-18	1.00000	5.25639e-18	1.000000
rad19syn	3.13279e-18	1.00000	3.13564e-18	1.000000
rad31	2.52203e-18	1.00000	2.52433e-18	1.000000
rad22	6.33856e-19	1.00000	6.34433e-19	1.000000
rad36	3.39714e-19	1.00000	3.40023e-19	1.000000
rad54	8.26741e-20	1.00000	8.27494e-20	1.000000
PAH10+CH3	5.48794e-20	1.00000	5.49294e-20	1.000000
rad43	1.28002e-20	1.00000	1.28118e-20	1.000000
rad52	6.86644e-21	1.00000	6.87269e-21	1.000000
rad62	3.68990e-21	1.00000	3.69326e-21	1.000000
PhcycC3H3_A+H	3.28877e-22	1.00000	3.29176e-22	1.000000
rad24	3.28806e-22	1.00000	3.29105e-22	1.000000
rad51	2.68189e-22	1.00000	2.68433e-22	1.000000
rad70	2.02728e-22	1.00000	2.02913e-22	1.000000
rad55	8.68997e-23	1.00000	8.69788e-23	1.000000
rad58	2.12890e-23	1.00000	2.13084e-23	1.000000
PAH1+H	9.19432e-24	1.00000	9.20269e-24	1.000000
rad65	2.64204e-24	1.00000	2.64445e-24	1.000000
rad34	5.91302e-25	1.00000	5.91840e-25	1.000000
rad42	9.90717e-27	1.00000	9.91619e-27	1.000000
rad41	2.94679e-27	1.00000	2.94947e-27	1.000000
rad47	2.49702e-35	1.00000	2.49929e-35	1.000000

0.100000000E-04 Pa, 290.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
Total	4.20015e-23	(1.00)	4.19549e-23	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998776	0.998776	0.999886	0.999886
Benzyl+C2H2	0.00111061	0.999887	0.00000	0.999886
rad6	0.000113032	1.000000	0.000113158	0.999999
PhCCH+CH3	3.25389e-07	1.000000	3.25751e-07	0.999999
PhCHCCH2+H	2.17127e-07	1.00000	2.17369e-07	1.000000
PhCCCH3+H	1.20085e-07	1.00000	1.20219e-07	1.000000
rad2	4.03696e-08	1.00000	4.04145e-08	1.000000
rad30	3.37607e-08	1.00000	3.37982e-08	1.000000

rad28	1.97670e-08	1.00000	1.97890e-08	1.000000
rad7	8.57383e-09	1.00000	8.58337e-09	1.000000
rad15	4.49771e-09	1.00000	4.50271e-09	1.000000
Ph+MeAc	4.18297e-09	1.00000	4.18762e-09	1.000000
PAH9+H	4.04942e-09	1.00000	4.05392e-09	1.000000
rad26	3.44211e-09	1.00000	3.44594e-09	1.000000
rad1	3.04722e-09	1.00000	3.05061e-09	1.000000
rad35	2.50177e-09	1.00000	2.50455e-09	1.000000
rad10	2.17402e-09	1.00000	2.17644e-09	1.000000
rad11	2.11770e-09	1.00000	2.12006e-09	1.000000
rad8	1.02448e-09	1.00000	1.02562e-09	1.000000
rad38	9.00336e-10	1.00000	9.01337e-10	1.000000
rad9	5.74337e-10	1.00000	5.74975e-10	1.000000
PAH7+H	3.61954e-10	1.00000	3.62356e-10	1.000000
rad3	2.69140e-10	1.00000	2.69439e-10	1.000000
Ph+Allene	2.59473e-10	1.00000	2.59762e-10	1.000000
rad4	1.43031e-10	1.00000	1.43190e-10	1.000000
rad39	5.93418e-11	1.00000	5.94078e-11	1.000000
rad13	4.93771e-11	1.00000	4.94320e-11	1.000000
rad12	3.84021e-11	1.00000	3.84448e-11	1.000000
rad46	4.23378e-12	1.00000	4.23849e-12	1.000000
PhCH2CCH+H	3.90208e-12	1.00000	3.90642e-12	1.000000
rad60syn	4.67305e-13	1.00000	4.67824e-13	1.000000
rad37	3.90595e-13	1.00000	3.91029e-13	1.000000
rad60anti	1.45354e-13	1.00000	1.45515e-13	1.000000
rad33	9.72132e-14	1.00000	9.73213e-14	1.000000
rad27	2.62315e-14	1.00000	2.62607e-14	1.000000
rad25	1.22191e-14	1.00000	1.22327e-14	1.000000
rad14	1.22178e-14	1.00000	1.22314e-14	1.000000
rad5	8.92731e-15	1.00000	8.93723e-15	1.000000
PAH3+H	2.47956e-15	1.00000	2.48231e-15	1.000000
rad20	1.39523e-15	1.00000	1.39678e-15	1.000000
rad23	9.31457e-16	1.00000	9.32492e-16	1.000000
rad21	9.09674e-16	1.00000	9.10685e-16	1.000000
rad59	7.44181e-16	1.00000	7.45008e-16	1.000000
rad50	5.08733e-17	1.00000	5.09299e-17	1.000000
rad19syn	1.08020e-17	1.00000	1.08140e-17	1.000000
rad45	8.26430e-18	1.00000	8.27348e-18	1.000000
rad18	5.55162e-18	1.00000	5.55779e-18	1.000000
rad31	2.54121e-18	1.00000	2.54404e-18	1.000000
rad22	5.65711e-19	1.00000	5.66340e-19	1.000000
rad36	5.38293e-19	1.00000	5.38892e-19	1.000000
rad54	3.14759e-19	1.00000	3.15109e-19	1.000000
PAH10+CH3	2.07056e-19	1.00000	2.07287e-19	1.000000
rad43	4.79058e-20	1.00000	4.79591e-20	1.000000
rad52	2.37882e-20	1.00000	2.38146e-20	1.000000
rad62	1.46946e-20	1.00000	1.47110e-20	1.000000
PhcycC3H3_A+H	1.52451e-21	1.00000	1.52620e-21	1.000000
rad51	1.10723e-21	1.00000	1.10847e-21	1.000000
rad70	9.13942e-22	1.00000	9.14959e-22	1.000000
rad55	3.95673e-22	1.00000	3.96113e-22	1.000000
rad24	3.51651e-22	1.00000	3.52042e-22	1.000000
rad58	9.94323e-23	1.00000	9.95428e-23	1.000000
PAH1+H	4.55729e-23	1.00000	4.56236e-23	1.000000
rad65	1.17141e-23	1.00000	1.17271e-23	1.000000
rad34	2.98551e-24	1.00000	2.98883e-24	1.000000
rad42	5.23348e-26	1.00000	5.23930e-26	1.000000
rad41	1.56769e-26	1.00000	1.56943e-26	1.000000
rad47	1.07468e-34	1.00000	1.07587e-34	1.000000

0.100000000E-04 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17544e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998253	0.998253	0.999915	0.999915
Benzyl+C2H2	0.00166156	0.999915	0.00000	0.999915
rad6	8.40764e-05	0.999999	8.42163e-05	0.999999
PhCCH+CH3	4.37162e-07	0.999999	4.37890e-07	1.000000
PhCHCCH2+H	2.66378e-07	0.999999	2.66822e-07	1.000000
PhCCCH3+H	1.55876e-07	0.999999	1.56136e-07	1.000000
rad30	3.74939e-08	1.000000	3.75563e-08	1.000000
rad2	2.94321e-08	1.000000	2.94811e-08	1.000000
rad28	1.59645e-08	1.000000	1.59910e-08	1.000000
rad7	7.47293e-09	1.000000	7.48537e-09	1.000000
Ph+MeAc	6.10451e-09	1.000000	6.11467e-09	1.000000
PAH9+H	5.54877e-09	1.000000	5.55800e-09	1.000000

rad26	2.93991e-09	1.000000	2.94481e-09	1.000000
rad35	2.76927e-09	1.000000	2.77388e-09	1.000000
rad1	2.21783e-09	1.000000	2.22152e-09	1.000000
rad10	1.88156e-09	1.000000	1.88469e-09	1.000000
rad11	1.78801e-09	1.000000	1.79099e-09	1.000000
rad38	1.02444e-09	1.000000	1.02614e-09	1.000000
PAH7+H	6.46228e-10	1.000000	6.47303e-10	1.000000
Ph+Allene	2.52088e-10	1.000000	2.52508e-10	1.000000
rad3	2.04940e-10	1.000000	2.05281e-10	1.000000
rad4	1.01917e-10	1.000000	1.02087e-10	1.000000
rad39	8.65155e-11	1.000000	8.66595e-11	1.000000
rad13	4.30141e-11	1.000000	4.30857e-11	1.000000
rad19anti	1.63421e-11	1.000000	1.63693e-11	1.000000
PhCH2CCH+H	7.51796e-12	1.000000	7.53047e-12	1.000000
rad46	5.66751e-12	1.000000	5.67695e-12	1.000000
rad60syn	7.07967e-13	1.000000	7.09145e-13	1.000000
rad23	6.06523e-13	1.000000	6.07532e-13	1.000000
rad37	6.05750e-13	1.000000	6.06758e-13	1.000000
rad60anti	2.13244e-13	1.000000	2.13599e-13	1.000000
rad33	1.03145e-13	1.000000	1.03316e-13	1.000000
rad20	7.81434e-14	1.000000	7.82735e-14	1.000000
rad21	4.99629e-14	1.000000	5.00461e-14	1.000000
rad27	2.32396e-14	1.000000	2.32783e-14	1.000000
rad45	1.52860e-14	1.000000	1.53114e-14	1.000000
rad14	1.07232e-14	1.000000	1.07410e-14	1.000000
rad25	9.52525e-15	1.000000	9.54111e-15	1.000000
PAH3+H	6.24906e-15	1.000000	6.25946e-15	1.000000
rad22	1.93225e-15	1.000000	1.93547e-15	1.000000
rad18	1.88578e-15	1.000000	1.88892e-15	1.000000
rad59	1.44646e-15	1.000000	1.44887e-15	1.000000
rad36	5.21000e-16	1.000000	5.21867e-16	1.000000
rad50	1.03025e-16	1.000000	1.03196e-16	1.000000
rad19syn	2.69237e-17	1.000000	2.69686e-17	1.000000
rad31	3.63614e-18	1.000000	3.64219e-18	1.000000
rad67	1.20185e-18	1.000000	1.20385e-18	1.000000
rad54	8.62496e-19	1.000000	8.63931e-19	1.000000
PAH10+CH3	5.72001e-19	1.000000	5.72953e-19	1.000000
rad24	1.73524e-19	1.000000	1.73813e-19	1.000000
rad43	1.19057e-19	1.000000	1.19255e-19	1.000000
rad52	6.28750e-20	1.000000	6.29796e-20	1.000000
rad62	4.05066e-20	1.000000	4.05740e-20	1.000000
PhcycC3H3_A+H	7.38955e-21	1.000000	7.40185e-21	1.000000
rad51	3.46096e-21	1.000000	3.46672e-21	1.000000
rad70	3.35427e-21	1.000000	3.35986e-21	1.000000
rad9	1.39157e-21	1.000000	1.39388e-21	1.000000
rad55	1.33540e-21	1.000000	1.33762e-21	1.000000
rad58	3.59869e-22	1.000000	3.60468e-22	1.000000
PAH1+H	2.76412e-22	1.000000	2.76872e-22	1.000000
rad65	4.20420e-23	1.000000	4.21120e-23	1.000000
rad34	1.85427e-23	1.000000	1.85735e-23	1.000000
rad15	8.27422e-25	1.000000	8.28799e-25	1.000000
rad42	4.75224e-25	1.000000	4.76015e-25	1.000000
rad41	1.44600e-25	1.000000	1.44841e-25	1.000000
rad53	6.41329e-27	1.000000	6.42397e-27	1.000000
rad64	1.37054e-27	1.000000	1.37282e-27	1.000000
rad5	5.01136e-28	1.000000	5.01970e-28	1.000000
rad12	1.01558e-28	1.000000	1.01727e-28	1.000000
rad56	9.21003e-30	1.000000	9.22535e-30	1.000000
rad61	1.39494e-30	1.000000	1.39726e-30	1.000000
rad68syn	1.01956e-30	1.000000	1.02126e-30	1.000000
rad68anti	7.27775e-31	1.000000	7.28987e-31	1.000000
rad73	2.25622e-33	1.000000	2.25997e-33	1.000000
rad47	2.39997e-34	1.000000	2.40397e-34	1.000000
rad40syn	2.31451e-34	1.000000	2.31836e-34	1.000000
rad40anti	7.03458e-35	1.000000	7.04628e-35	1.000000
rad71	2.29516e-36	1.000000	2.29898e-36	1.000000
PAH8+H	7.64559e-37	1.000000	7.65832e-37	1.000000
rad72	4.04882e-42	1.000000	4.05556e-42	1.000000
rad8	2.66433e-43	1.000000	2.66877e-43	1.000000

0.100000000E-04 Pa, 310.000000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	2.44453e-22 (1.00)	2.44054e-22 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998279	0.998279	0.999911	0.999911
Benzy1+C2H2	0.00163184	0.999911	0.000000	0.999911

rad6	8.73500e-05	0.999998	8.74928e-05	0.999998
PhCCH+CH3	7.58753e-07	0.999999	7.59993e-07	0.999999
PhCHCCH2+H	4.76052e-07	0.999999	4.76831e-07	1.000000
PhCCCH3+H	2.75295e-07	1.000000	2.75745e-07	1.000000
rad30	5.84649e-08	1.000000	5.85605e-08	1.000000
rad2	3.13967e-08	1.000000	3.14480e-08	1.000000
rad28	1.93121e-08	1.000000	1.93436e-08	1.000000
Ph+MeAc	1.35761e-08	1.000000	1.35983e-08	1.000000
rad15	8.75409e-09	1.000000	8.76840e-09	1.000000
PAH9+H	7.07561e-09	1.000000	7.08717e-09	1.000000
rad7	6.66608e-09	1.000000	6.67698e-09	1.000000
rad35	4.11561e-09	1.000000	4.12233e-09	1.000000
rad26	3.27400e-09	1.000000	3.27935e-09	1.000000
rad8	2.64955e-09	1.000000	2.65388e-09	1.000000
rad1	2.45126e-09	1.000000	2.45527e-09	1.000000
rad10	1.70338e-09	1.000000	1.70617e-09	1.000000
rad38	1.67243e-09	1.000000	1.67517e-09	1.000000
rad9	1.66124e-09	1.000000	1.66395e-09	1.000000
rad11	1.64893e-09	1.000000	1.65163e-09	1.000000
PAH7+H	1.07506e-09	1.000000	1.07682e-09	1.000000
Ph+Allene	1.01786e-09	1.000000	1.01952e-09	1.000000
rad3	2.10231e-10	1.000000	2.10575e-10	1.000000
rad39	1.92940e-10	1.000000	1.93255e-10	1.000000
rad4	1.12836e-10	1.000000	1.13020e-10	1.000000
rad12	1.09828e-10	1.000000	1.10007e-10	1.000000
rad13	3.85914e-11	1.000000	3.86545e-11	1.000000
PhCH2CCH+H	2.04080e-11	1.000000	2.04413e-11	1.000000
rad46	1.09553e-11	1.000000	1.09732e-11	1.000000
rad37	1.66317e-12	1.000000	1.66589e-12	1.000000
rad60syn	1.63168e-12	1.000000	1.63435e-12	1.000000
rad60anti	5.39032e-13	1.000000	5.39913e-13	1.000000
rad33	7.64909e-14	1.000000	7.66159e-14	1.000000
rad5	4.67623e-14	1.000000	4.68387e-14	1.000000
rad27	2.26903e-14	1.000000	2.27274e-14	1.000000
PAH3+H	1.51219e-14	1.000000	1.51466e-14	1.000000
rad14	1.27263e-14	1.000000	1.27471e-14	1.000000
rad25	1.21605e-14	1.000000	1.21803e-14	1.000000
rad59	4.36100e-15	1.000000	4.36813e-15	1.000000
rad23	2.18904e-15	1.000000	2.19262e-15	1.000000
rad20	1.19248e-15	1.000000	1.19443e-15	1.000000
rad21	7.83828e-16	1.000000	7.85110e-16	1.000000
rad50	3.17584e-16	1.000000	3.18103e-16	1.000000
rad19syn	1.01008e-16	1.000000	1.01173e-16	1.000000
rad45	2.29927e-17	1.000000	2.30303e-17	1.000000
rad18	4.53557e-18	1.000000	4.54298e-18	1.000000
rad54	3.50794e-18	1.000000	3.51367e-18	1.000000
rad31	2.61011e-18	1.000000	2.61438e-18	1.000000
PAH10+CH3	2.26096e-18	1.000000	2.26466e-18	1.000000
rad36	1.52132e-18	1.000000	1.52381e-18	1.000000
rad43	5.14346e-19	1.000000	5.15187e-19	1.000000
rad22	4.69016e-19	1.000000	4.69782e-19	1.000000
rad52	2.26217e-19	1.000000	2.26587e-19	1.000000
rad62	1.76309e-19	1.000000	1.76597e-19	1.000000
PhcycC3H3_A+H	2.37747e-20	1.000000	2.38136e-20	1.000000
rad51	1.42634e-20	1.000000	1.42867e-20	1.000000
rad70	1.35851e-20	1.000000	1.36073e-20	1.000000
rad55	5.98365e-21	1.000000	5.99343e-21	1.000000
rad58	1.57034e-21	1.000000	1.57291e-21	1.000000
PAH1+H	7.93477e-22	1.000000	7.94774e-22	1.000000
rad24	4.12279e-22	1.000000	4.12953e-22	1.000000
rad65	1.69845e-22	1.000000	1.70123e-22	1.000000
rad34	5.35996e-23	1.000000	5.36872e-23	1.000000
rad42	1.01339e-24	1.000000	1.01505e-24	1.000000
rad41	3.07226e-25	1.000000	3.07728e-25	1.000000
rad47	1.45559e-33	1.000000	1.45797e-33	1.000000

0.100000000E-04 Pa, 400.000000 K

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

Total | 3.60269e-20 (1.00) | 3.57081e-20 (1.00)

species | PYtrue | Cumul | PYeffective | Cumul

Indene+H | 0.991108 | 0.991108 | 0.999957 | 0.999957
Benzyl+C2H2 | 0.00884845 | 0.999956 | 0.000000 | 0.999957
rad6 | 1.97050e-05 | 0.999976 | 1.98809e-05 | 0.999977
PhCCH+CH3 | 1.23487e-05 | 0.999989 | 1.24589e-05 | 0.999989
PhCHCCH2+H | 5.94908e-06 | 0.999994 | 6.00219e-06 | 0.999995
PhCCCH3+H | 3.90680e-06 | 0.999998 | 3.94168e-06 | 0.999999

Ph+MeAc	5.34641e-07	0.999999	5.39414e-07	1.000000
rad30	4.02126e-07	0.999999	4.05716e-07	1.000000
PAH9+H	6.80801e-08	0.999999	6.86879e-08	1.000000
Ph+Allene	6.39783e-08	0.999999	6.45494e-08	1.000000
PAH7+H	4.50259e-08	0.999999	4.54278e-08	1.000000
rad35	2.73751e-08	1.000000	2.76195e-08	1.000000
rad38	1.63212e-08	1.000000	1.64669e-08	1.000000
rad28	8.85236e-09	1.000000	8.93139e-09	1.000000
rad39	8.59856e-09	1.000000	8.67533e-09	1.000000
rad2	7.59423e-09	1.000000	7.66202e-09	1.000000
PhCH2CCH+H	4.56272e-09	1.000000	4.60346e-09	1.000000
rad7	1.84793e-09	1.000000	1.86443e-09	1.000000
rad26	1.56476e-09	1.000000	1.57873e-09	1.000000
rad19anti	8.44415e-10	1.000000	8.51953e-10	1.000000
rad1	7.06747e-10	1.000000	7.13056e-10	1.000000
rad10	5.05435e-10	1.000000	5.09948e-10	1.000000
rad11	4.53584e-10	1.000000	4.57634e-10	1.000000
rad46	3.06009e-10	1.000000	3.08741e-10	1.000000
rad37	1.38257e-10	1.000000	1.39491e-10	1.000000
rad60syn	9.47275e-11	1.000000	9.55731e-11	1.000000
rad3	5.78388e-11	1.000000	5.83552e-11	1.000000
rad60anti	3.76555e-11	1.000000	3.79916e-11	1.000000
rad4	3.04601e-11	1.000000	3.07320e-11	1.000000
rad23	2.31390e-11	1.000000	2.33456e-11	1.000000
rad13	1.12546e-11	1.000000	1.13550e-11	1.000000
PAH3+H	6.50520e-12	1.000000	6.56327e-12	1.000000
rad45	2.12680e-12	1.000000	2.14579e-12	1.000000
rad59	1.36005e-12	1.000000	1.37219e-12	1.000000
rad50	1.35995e-13	1.000000	1.37209e-13	1.000000
rad19syn	1.28743e-13	1.000000	1.29893e-13	1.000000
rad36	8.19611e-14	1.000000	8.26928e-14	1.000000
rad20	4.10424e-14	1.000000	4.14088e-14	1.000000
rad33	2.96737e-14	1.000000	2.99386e-14	1.000000
rad21	2.87048e-14	1.000000	2.89610e-14	1.000000
rad27	9.50724e-15	1.000000	9.59211e-15	1.000000
rad54	8.91596e-15	1.000000	8.99555e-15	1.000000
rad14	8.00086e-15	1.000000	8.07229e-15	1.000000
rad25	7.18849e-15	1.000000	7.25266e-15	1.000000
PAH10+CH3	4.84594e-15	1.000000	4.88920e-15	1.000000
rad67	1.67320e-15	1.000000	1.68813e-15	1.000000
rad22	8.77934e-16	1.000000	8.85772e-16	1.000000
rad43	8.69705e-16	1.000000	8.77469e-16	1.000000
rad18	7.76780e-16	1.000000	7.83714e-16	1.000000
rad62	4.86646e-16	1.000000	4.90991e-16	1.000000
rad52	4.03339e-16	1.000000	4.06939e-16	1.000000
PhcycC3H3_A+H	3.21885e-16	1.000000	3.24759e-16	1.000000
rad70	1.20385e-16	1.000000	1.21459e-16	1.000000
rad51	7.61881e-17	1.000000	7.68682e-17	1.000000
rad55	5.04271e-17	1.000000	5.08773e-17	1.000000
PAH1+H	2.44003e-17	1.000000	2.46181e-17	1.000000
rad58	1.79710e-17	1.000000	1.81314e-17	1.000000
rad31	6.44273e-18	1.000000	6.50025e-18	1.000000
rad34	2.03114e-18	1.000000	2.04927e-18	1.000000
rad65	1.53305e-18	1.000000	1.54673e-18	1.000000
rad24	5.54383e-19	1.000000	5.59333e-19	1.000000
rad42	7.25710e-20	1.000000	7.32189e-20	1.000000
rad9	2.96167e-20	1.000000	2.98811e-20	1.000000
rad41	2.24651e-20	1.000000	2.26657e-20	1.000000
rad53	5.65489e-21	1.000000	5.70538e-21	1.000000
rad64	1.81594e-21	1.000000	1.83215e-21	1.000000
rad56	6.61256e-23	1.000000	6.67159e-23	1.000000
rad15	1.86122e-23	1.000000	1.87783e-23	1.000000
rad68syn	8.53806e-24	1.000000	8.61428e-24	1.000000
rad68anti	6.16632e-24	1.000000	6.22137e-24	1.000000
rad61	4.53302e-24	1.000000	4.57349e-24	1.000000
rad73	2.92606e-25	1.000000	2.95218e-25	1.000000
rad5	7.00544e-26	1.000000	7.06798e-26	1.000000
rad40syn	4.87418e-26	1.000000	4.91770e-26	1.000000
rad71	2.65191e-26	1.000000	2.67559e-26	1.000000
PAH8+H	2.56940e-26	1.000000	2.59234e-26	1.000000
rad12	1.61068e-26	1.000000	1.62506e-26	1.000000
rad40anti	1.17016e-26	1.000000	1.18060e-26	1.000000
rad72	1.07906e-29	1.000000	1.08869e-29	1.000000
rad47	5.32431e-30	1.000000	5.37185e-30	1.000000
rad8	1.01888e-39	1.000000	1.02798e-39	1.000000

0.100000000E-04 Pa, 500.000000 K

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

Total | 1.22595e-18 (1.00) 1.18787e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.968761	0.968761	0.999819	0.999819
Benzyl+C2H2	0.0310635	0.999825	0.00000	0.999819
PhCCH+CH3	9.35885e-05	0.999918	9.65889e-05	0.999916
PhCHCCH2+H	4.00537e-05	0.999958	4.13378e-05	0.999957
PhCCCH3+H	2.54417e-05	0.999984	2.62573e-05	0.999983
Ph+MeAc	7.07382e-06	0.999991	7.30061e-06	0.999990
rad6	3.27488e-06	0.999994	3.37987e-06	0.999994
rad30	2.19669e-06	0.999996	2.26711e-06	0.999996
Ph+Allene	2.05092e-06	0.999998	2.11667e-06	0.999998
PAH7+H	6.80733e-07	0.999999	7.02557e-07	0.999999
PAH9+H	4.84045e-07	0.999999	4.99563e-07	0.999999
PhCH2CCH+H	2.44800e-07	1.000000	2.52649e-07	1.000000
rad35	1.65639e-07	1.000000	1.70949e-07	1.000000
rad39	1.51518e-07	1.000000	1.56375e-07	1.000000
rad38	1.34449e-07	1.000000	1.38759e-07	1.000000
rad19anti	1.41563e-08	1.000000	1.46102e-08	1.000000
rad46	5.06639e-09	1.000000	5.22882e-09	1.000000
rad37	2.86985e-09	1.000000	2.96186e-09	1.000000
rad28	2.41897e-09	1.000000	2.49652e-09	1.000000
rad60syn	2.17485e-09	1.000000	2.24457e-09	1.000000
rad2	1.87160e-09	1.000000	1.93160e-09	1.000000
rad60anti	9.78348e-10	1.000000	1.00971e-09	1.000000
PAH3+H	4.98713e-10	1.000000	5.14701e-10	1.000000
rad26	4.19530e-10	1.000000	4.32979e-10	1.000000
rad7	3.30489e-10	1.000000	3.41084e-10	1.000000
rad23	2.59998e-10	1.000000	2.68334e-10	1.000000
rad1	2.23545e-10	1.000000	2.30711e-10	1.000000
rad10	1.07805e-10	1.000000	1.11261e-10	1.000000
rad59	9.55001e-11	1.000000	9.85617e-11	1.000000
rad11	8.44511e-11	1.000000	8.71586e-11	1.000000
rad45	4.50137e-11	1.000000	4.64568e-11	1.000000
rad19syn	2.21128e-11	1.000000	2.28217e-11	1.000000
rad3	1.82238e-11	1.000000	1.88081e-11	1.000000
rad50	1.38233e-11	1.000000	1.42664e-11	1.000000
rad4	1.02674e-11	1.000000	1.05965e-11	1.000000
rad54	2.40094e-12	1.000000	2.47791e-12	1.000000
rad36	2.38810e-12	1.000000	2.46466e-12	1.000000
rad13	2.22901e-12	1.000000	2.30047e-12	1.000000
PAH10+CH3	9.70509e-13	1.000000	1.00162e-12	1.000000
rad67	2.37494e-13	1.000000	2.45108e-13	1.000000
PhcycC3H3_A+H	2.03141e-13	1.000000	2.09654e-13	1.000000
rad43	1.48455e-13	1.000000	1.53215e-13	1.000000
rad62	1.23068e-13	1.000000	1.27014e-13	1.000000
rad52	1.00213e-13	1.000000	1.03426e-13	1.000000
rad70	6.56846e-14	1.000000	6.77905e-14	1.000000
rad51	3.84948e-14	1.000000	3.97289e-14	1.000000
rad20	3.28011e-14	1.000000	3.38526e-14	1.000000
rad55	2.77306e-14	1.000000	2.86196e-14	1.000000
rad21	2.58453e-14	1.000000	2.66739e-14	1.000000
PAH1+H	2.28970e-14	1.000000	2.36311e-14	1.000000
rad58	1.24938e-14	1.000000	1.28943e-14	1.000000
rad33	7.09508e-15	1.000000	7.32255e-15	1.000000
rad14	2.92863e-15	1.000000	3.02252e-15	1.000000
rad25	2.69313e-15	1.000000	2.77947e-15	1.000000
rad27	2.61232e-15	1.000000	2.69607e-15	1.000000
rad34	2.11781e-15	1.000000	2.18571e-15	1.000000
rad22	1.65627e-15	1.000000	1.70937e-15	1.000000
rad65	9.82506e-16	1.000000	1.01400e-15	1.000000
rad18	4.11241e-16	1.000000	4.24425e-16	1.000000
rad42	8.25316e-17	1.000000	8.51775e-17	1.000000
rad41	2.35446e-17	1.000000	2.42994e-17	1.000000
rad53	2.01956e-17	1.000000	2.08430e-17	1.000000
rad31	1.29790e-17	1.000000	1.33951e-17	1.000000
rad64	7.89100e-18	1.000000	8.14398e-18	1.000000
rad24	4.12101e-18	1.000000	4.25313e-18	1.000000
rad9	8.84176e-19	1.000000	9.12522e-19	1.000000
rad56	7.29092e-19	1.000000	7.52466e-19	1.000000
rad73	1.39103e-19	1.000000	1.43563e-19	1.000000
rad71	1.05019e-19	1.000000	1.08386e-19	1.000000
rad68syn	1.00333e-19	1.000000	1.03550e-19	1.000000
rad68anti	7.12922e-20	1.000000	7.35778e-20	1.000000
rad61	3.11887e-20	1.000000	3.21886e-20	1.000000
PAH8+H	2.47323e-21	1.000000	2.55252e-21	1.000000
rad40syn	1.68839e-21	1.000000	1.74252e-21	1.000000
rad72	1.17726e-21	1.000000	1.21500e-21	1.000000
rad15	5.95514e-22	1.000000	6.14605e-22	1.000000

rad40anti	5.00701e-22	1.00000	5.16753e-22	1.00000
rad12	5.40231e-24	1.00000	5.57550e-24	1.00000
rad5	8.73236e-25	1.00000	9.01232e-25	1.00000
rad47	2.95540e-27	1.00000	3.05015e-27	1.00000
rad8	6.40754e-36	1.00000	6.61296e-36	1.00000

0.100000000E-04 Pa, 600.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.36947e-17	(1.00)	1.26193e-17	(1.00)

species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.920850	0.920850	0.999325	0.999325
Benzyl+C2H2	0.0785283	0.999378	0.00000	0.999325
PhCCH+CH3	0.000333041	0.999711	0.000361423	0.999686
PhCHCCH2+H	0.000137018	0.999848	0.000148695	0.999835
PhCCCH3+H	7.54024e-05	0.999924	8.18282e-05	0.999917
Ph+MeAc	3.38749e-05	0.999958	3.67618e-05	0.999954
Ph+Allene	2.17077e-05	0.999979	2.35576e-05	0.999977
rad30	7.59256e-06	0.999987	8.23960e-06	0.999986
PAH7+H	4.39151e-06	0.999991	4.76575e-06	0.999990
PhCH2CCH+H	3.66168e-06	0.999995	3.97373e-06	0.999994
PAH9+H	2.21749e-06	0.999997	2.40646e-06	0.999997
rad39	1.04275e-06	0.999998	1.13161e-06	0.999998
rad38	6.77229e-07	0.999999	7.34943e-07	0.999999
rad35	6.69665e-07	1.000000	7.26735e-07	0.999999
rad6	4.69731e-07	1.00000	5.09761e-07	1.000000
rad19anti	1.16219e-07	1.00000	1.26124e-07	1.000000
rad46	4.03899e-08	1.00000	4.38320e-08	1.000000
rad60syn	1.92850e-08	1.00000	2.09285e-08	1.000000
rad37	1.80181e-08	1.00000	1.95536e-08	1.000000
PAH3+H	9.89108e-09	1.00000	1.07340e-08	1.000000
rad60anti	9.33103e-09	1.00000	1.01262e-08	1.000000
rad59	1.75177e-09	1.00000	1.90106e-09	1.000000
rad19syn	6.85596e-10	1.00000	7.44023e-10	1.000000
rad2	6.33675e-10	1.00000	6.87677e-10	1.000000
rad23	5.93958e-10	1.00000	6.44575e-10	1.000000
rad28	4.81642e-10	1.00000	5.22688e-10	1.000000
rad50	3.60425e-10	1.00000	3.91141e-10	1.000000
rad45	1.15401e-10	1.00000	1.25236e-10	1.000000
rad54	1.00687e-10	1.00000	1.09267e-10	1.000000
rad1	9.35967e-11	1.00000	1.01573e-10	1.000000
rad26	8.35661e-11	1.00000	9.06876e-11	1.000000
rad7	5.24865e-11	1.00000	5.69594e-11	1.000000
PAH10+CH3	2.91741e-11	1.00000	3.16604e-11	1.000000
rad10	2.40906e-11	1.00000	2.61437e-11	1.000000
PhcycC3H3_A+H	1.50048e-11	1.00000	1.62835e-11	1.000000
rad11	1.43159e-11	1.00000	1.55359e-11	1.000000
rad36	9.40040e-12	1.00000	1.02015e-11	1.000000
rad67	9.04185e-12	1.00000	9.81241e-12	1.000000
rad3	6.95567e-12	1.00000	7.54844e-12	1.000000
rad52	4.64030e-12	1.00000	5.03575e-12	1.000000
rad62	4.44947e-12	1.00000	4.82866e-12	1.000000
rad70	4.33482e-12	1.00000	4.70424e-12	1.000000
rad4	4.24740e-12	1.00000	4.60936e-12	1.000000
rad43	3.80299e-12	1.00000	4.12708e-12	1.000000
rad51	2.85609e-12	1.00000	3.09949e-12	1.000000
PAH1+H	2.14270e-12	1.00000	2.32530e-12	1.000000
rad55	1.80946e-12	1.00000	1.96366e-12	1.000000
rad58	1.01140e-12	1.00000	1.09759e-12	1.000000
rad13	4.28234e-13	1.00000	4.64729e-13	1.000000
rad34	2.13710e-13	1.00000	2.31922e-13	1.000000
rad65	8.20556e-14	1.00000	8.90484e-14	1.000000
rad20	4.39545e-14	1.00000	4.77003e-14	1.000000
rad21	3.92672e-14	1.00000	4.26136e-14	1.000000
rad42	8.05746e-15	1.00000	8.74412e-15	1.000000
rad53	4.55866e-15	1.00000	4.94715e-15	1.000000
rad22	2.61454e-15	1.00000	2.83735e-15	1.000000
rad33	2.10731e-15	1.00000	2.28690e-15	1.000000
rad41	2.02157e-15	1.00000	2.19385e-15	1.000000
rad64	1.96388e-15	1.00000	2.13124e-15	1.000000
rad71	9.74199e-16	1.00000	1.05722e-15	1.000000
rad14	8.71152e-16	1.00000	9.45392e-16	1.000000
rad25	8.43545e-16	1.00000	9.15432e-16	1.000000
rad73	7.72431e-16	1.00000	8.38258e-16	1.000000
rad27	7.16298e-16	1.00000	7.77342e-16	1.000000
rad56	3.47902e-16	1.00000	3.77550e-16	1.000000
rad18	3.12710e-16	1.00000	3.39359e-16	1.000000

rad68syn	5.26701e-17	1.00000	5.71587e-17	1.000000
rad24	5.16623e-17	1.00000	5.60650e-17	1.000000
rad9	4.00412e-17	1.00000	4.34536e-17	1.000000
rad68anti	3.66776e-17	1.00000	3.98033e-17	1.000000
rad72	2.76918e-17	1.00000	3.00517e-17	1.000000
rad31	1.61077e-17	1.00000	1.74804e-17	1.000000
rad61	1.50768e-17	1.00000	1.63616e-17	1.000000
PAH8+H	1.32897e-17	1.00000	1.44222e-17	1.000000
rad40syn	2.83757e-18	1.00000	3.07939e-18	1.000000
rad40anti	1.29560e-18	1.00000	1.40601e-18	1.000000
rad15	2.60453e-20	1.00000	2.82649e-20	1.000000
rad12	2.10365e-21	1.00000	2.28293e-21	1.000000
rad5	3.67885e-24	1.00000	3.99236e-24	1.000000
rad47	2.25346e-25	1.00000	2.44550e-25	1.000000
rad8	9.50744e-32	1.00000	1.03177e-31	1.000000

0.1000000000E-04 Pa, 700.000000 K

=====				
Rate constant	True (fraction)		Effective (fraction)	

Total	8.02260e-17 (1.00)		6.78335e-17 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.844045	0.844045	0.998243	0.998243
Benzyl+C2H2	0.154470	0.998515	0.00000	0.998243
PhCCH+CH3	0.000746432	0.999261	0.000882797	0.999126
PhCHCCH2+H	0.000320584	0.999582	0.000379152	0.999505
PhCCCH3+H	0.000136742	0.999719	0.000161723	0.999667
Ph+Allene	0.000115963	0.999835	0.000137148	0.999804
Ph+MeAc	8.86608e-05	0.999923	0.000104858	0.999909
PhCH2CCH+H	2.52612e-05	0.999949	2.98762e-05	0.999939
rad30	1.89338e-05	0.999968	2.23928e-05	0.999961
PAH7+H	1.64063e-05	0.999984	1.94035e-05	0.999980
PAH9+H	7.24068e-06	0.999991	8.56348e-06	0.999989
rad39	3.97934e-06	0.999995	4.70633e-06	0.999994
rad38	2.36435e-06	0.999998	2.79629e-06	0.999996
rad35	1.97986e-06	1.000000	2.34155e-06	0.999999
rad19anti	5.91543e-07	1.00000	6.99611e-07	0.999999
rad46	1.95978e-07	1.00000	2.31781e-07	1.000000
rad60syn	9.47747e-08	1.00000	1.12089e-07	1.000000
PAH3+H	8.73470e-08	1.00000	1.03304e-07	1.000000
rad6	6.55289e-08	1.00000	7.75003e-08	1.000000
rad37	5.67281e-08	1.00000	6.70918e-08	1.00000
rad60anti	4.82184e-08	1.00000	5.70274e-08	1.00000
rad59	1.44140e-08	1.00000	1.70472e-08	1.00000
rad19syn	7.75622e-09	1.00000	9.17320e-09	1.00000
rad50	4.08954e-09	1.00000	4.83665e-09	1.00000
rad54	1.41341e-09	1.00000	1.67162e-09	1.00000
rad23	4.27548e-10	1.00000	5.05656e-10	1.00000
PhcycC3H3_A+H	3.16567e-10	1.00000	3.74401e-10	1.00000
PAH10+CH3	2.96719e-10	1.00000	3.50927e-10	1.00000
rad2	2.02223e-10	1.00000	2.39167e-10	1.00000
rad67	1.46315e-10	1.00000	1.73045e-10	1.00000
rad45	9.90424e-11	1.00000	1.17136e-10	1.00000
rad28	8.51258e-11	1.00000	1.00677e-10	1.00000
rad70	8.36666e-11	1.00000	9.89516e-11	1.00000
rad52	7.84320e-11	1.00000	9.27607e-11	1.00000
rad51	6.66724e-11	1.00000	7.88527e-11	1.00000
rad62	5.24326e-11	1.00000	6.20115e-11	1.00000
PAH1+H	5.21851e-11	1.00000	6.17188e-11	1.00000
rad55	3.42220e-11	1.00000	4.04740e-11	1.00000
rad1	3.31779e-11	1.00000	3.92391e-11	1.00000
rad43	3.27264e-11	1.00000	3.87052e-11	1.00000
rad58	2.36737e-11	1.00000	2.79986e-11	1.00000
rad26	1.50390e-11	1.00000	1.77865e-11	1.00000
rad7	8.48064e-12	1.00000	1.00300e-11	1.00000
rad36	8.42456e-12	1.00000	9.96364e-12	1.00000
rad10	5.65952e-12	1.00000	6.69346e-12	1.00000
rad34	5.58027e-12	1.00000	6.59972e-12	1.00000
rad11	2.59781e-12	1.00000	3.07241e-12	1.00000
rad3	2.18884e-12	1.00000	2.58871e-12	1.00000
rad65	2.03431e-12	1.00000	2.40596e-12	1.00000
rad4	1.41184e-12	1.00000	1.66976e-12	1.00000
rad53	2.08909e-13	1.00000	2.47075e-13	1.00000
rad42	1.92481e-13	1.00000	2.27645e-13	1.00000
rad13	1.02387e-13	1.00000	1.21092e-13	1.00000
rad20	9.46322e-14	1.00000	1.11921e-13	1.00000
rad64	9.18157e-14	1.00000	1.08589e-13	1.00000
rad21	9.16215e-14	1.00000	1.08360e-13	1.00000

rad41	4.15206e-14	1.00000	4.91060e-14	1.00000
rad71	3.00439e-14	1.00000	3.55326e-14	1.00000
rad56	2.68166e-14	1.00000	3.17158e-14	1.00000
rad73	2.28916e-14	1.00000	2.70737e-14	1.00000
rad68syn	4.06319e-15	1.00000	4.80549e-15	1.00000
rad68anti	2.80181e-15	1.00000	3.31367e-15	1.00000
rad22	1.84969e-15	1.00000	2.18761e-15	1.00000
rad9	1.66447e-15	1.00000	1.96855e-15	1.00000
rad33	1.34132e-15	1.00000	1.58637e-15	1.00000
rad72	9.63889e-16	1.00000	1.13998e-15	1.00000
PAH8+H	8.05427e-16	1.00000	9.52570e-16	1.00000
rad61	7.18099e-16	1.00000	8.49288e-16	1.00000
rad24	5.53564e-16	1.00000	6.54694e-16	1.00000
rad18	3.75656e-16	1.00000	4.44284e-16	1.00000
rad25	3.17859e-16	1.00000	3.75929e-16	1.00000
rad14	2.91819e-16	1.00000	3.45131e-16	1.00000
rad27	2.65878e-16	1.00000	3.14451e-16	1.00000
rad40syn	2.43475e-16	1.00000	2.87955e-16	1.00000
rad40anti	1.01881e-16	1.00000	1.20494e-16	1.00000
rad31	1.07541e-17	1.00000	1.27187e-17	1.00000
rad15	7.38639e-19	1.00000	8.73580e-19	1.00000
rad12	2.79200e-19	1.00000	3.30207e-19	1.00000
rad5	9.63145e-24	1.00000	1.13910e-23	1.00000
rad47	4.49924e-24	1.00000	5.32120e-24	1.00000
rad8	1.57142e-27	1.00000	1.85851e-27	1.00000

0.100000000E-04 Pa, 800.000000 K

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

Total | 3.12228e-16 (1.00) | 2.33587e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745326	0.745326	0.996252	0.996252
Benzyl+C2H2	0.251870	0.997196	0.000000	0.996252
PhCCH+CH3	0.00124162	0.998438	0.00165963	0.997912
PhCHCCH2+H	0.000603920	0.999042	0.000807240	0.998719
Ph+Allene	0.000391607	0.999433	0.000523448	0.999242
PhCCCH3+H	0.000180412	0.999614	0.000241150	0.999483
Ph+MeAc	0.000158702	0.999772	0.000212132	0.999696
PhCH2CCH+H	0.000104747	0.999877	0.000140012	0.999836
PAH7+H	4.20043e-05	0.999919	5.61457e-05	0.999892
rad30	3.73181e-05	0.999956	4.98819e-05	0.999942
PAH9+H	1.83028e-05	0.999975	2.44647e-05	0.999966
rad39	1.01670e-05	0.999985	1.35899e-05	0.999980
rad38	6.28641e-06	0.999991	8.40283e-06	0.999988
rad35	4.61793e-06	0.999996	6.17263e-06	0.999994
rad19anti	2.13374e-06	0.999998	2.85210e-06	0.999997
rad46	6.69432e-07	0.999999	8.94808e-07	0.999998
PAH3+H	4.55926e-07	0.999999	6.09421e-07	0.999999
rad60syn	3.14534e-07	0.999999	4.20427e-07	0.999999
rad60anti	1.66149e-07	0.999999	2.22085e-07	0.999999
rad37	1.16536e-07	1.000000	1.55770e-07	0.999999
rad59	7.05289e-08	1.000000	9.42736e-08	1.000000
rad19syn	4.57469e-08	1.000000	6.11483e-08	1.000000
rad50	2.67405e-08	1.000000	3.57431e-08	1.000000
rad6	1.01422e-08	1.000000	1.35568e-08	1.000000
rad54	9.79643e-09	1.000000	1.30946e-08	1.000000
PhcycC3H3_A+H	2.99418e-09	1.000000	4.00222e-09	1.000000
PAH10+CH3	1.56116e-09	1.000000	2.08675e-09	1.000000
rad67	1.31112e-09	1.000000	1.75252e-09	1.000000
rad51	7.41561e-10	1.000000	9.91219e-10	1.000000
rad70	7.37578e-10	1.000000	9.85895e-10	1.000000
rad52	6.87557e-10	1.000000	9.19034e-10	1.000000
PAH1+H	5.38448e-10	1.000000	7.19725e-10	1.000000
rad62	3.04696e-10	1.000000	4.07277e-10	1.000000
rad55	2.93956e-10	1.000000	3.92921e-10	1.000000
rad58	2.53309e-10	1.000000	3.38589e-10	1.000000
rad23	1.80748e-10	1.000000	2.41600e-10	1.000000
rad43	1.42335e-10	1.000000	1.90255e-10	1.000000
rad34	6.18306e-11	1.000000	8.26469e-11	1.000000
rad45	5.36054e-11	1.000000	7.16525e-11	1.000000
rad2	5.28843e-11	1.000000	7.06886e-11	1.000000
rad65	2.33454e-11	1.000000	3.12050e-11	1.000000
rad28	1.56362e-11	1.000000	2.09003e-11	1.000000
rad1	8.48188e-12	1.000000	1.13375e-11	1.000000
rad36	4.45839e-12	1.000000	5.95939e-12	1.000000
rad53	3.49874e-12	1.000000	4.67665e-12	1.000000
rad26	2.86266e-12	1.000000	3.82642e-12	1.000000

rad42	1.90235e-12	1.000000	2.54281e-12	1.000000
rad7	1.64594e-12	1.000000	2.20008e-12	1.000000
rad64	1.51375e-12	1.000000	2.02337e-12	1.000000
rad10	1.29110e-12	1.000000	1.72577e-12	1.000000
rad56	6.64107e-13	1.000000	8.87689e-13	1.000000
rad11	6.46909e-13	1.000000	8.64702e-13	1.000000
rad3	5.83707e-13	1.000000	7.80222e-13	1.000000
rad4	3.84053e-13	1.000000	5.13350e-13	1.000000
rad41	3.48407e-13	1.000000	4.65704e-13	1.000000
rad20	2.64419e-13	1.000000	3.53440e-13	1.000000
rad21	2.51406e-13	1.000000	3.36046e-13	1.000000
rad73	1.17591e-13	1.000000	1.57180e-13	1.000000
rad71	1.07686e-13	1.000000	1.43940e-13	1.000000
rad68syn	1.02599e-13	1.000000	1.37141e-13	1.000000
rad68anti	7.01223e-14	1.000000	9.37301e-14	1.000000
rad13	5.15188e-14	1.000000	6.88635e-14	1.000000
rad9	3.00314e-14	1.000000	4.01420e-14	1.000000
PAH8+H	2.02031e-14	1.000000	2.70048e-14	1.000000
rad61	1.14829e-14	1.000000	1.53488e-14	1.000000
rad40syn	7.24502e-15	1.000000	9.68417e-15	1.000000
rad72	3.10933e-15	1.000000	4.15613e-15	1.000000
rad24	2.87053e-15	1.000000	3.83695e-15	1.000000
rad40anti	2.75204e-15	1.000000	3.67856e-15	1.000000
rad33	2.07653e-15	1.000000	2.77562e-15	1.000000
rad22	8.87359e-16	1.000000	1.18610e-15	1.000000
rad18	7.61444e-16	1.000000	1.01780e-15	1.000000
rad25	2.03273e-16	1.000000	2.71708e-16	1.000000
rad27	1.65096e-16	1.000000	2.20678e-16	1.000000
rad14	1.45786e-16	1.000000	1.94867e-16	1.000000
rad15	8.03439e-18	1.000000	1.07393e-17	1.000000
rad12	7.13554e-18	1.000000	9.53784e-18	1.000000
rad31	5.78737e-18	1.000000	7.73578e-18	1.000000
rad47	4.73561e-23	1.000000	6.32993e-23	1.000000
rad5	2.27415e-23	1.000000	3.03978e-23	1.000000
rad8	8.26834e-24	1.000000	1.10520e-23	1.000000

0.100000000E-04 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.21769e-16 (1.00)	5.91948e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.637601	0.637601	0.992859	0.992859
Benzyl+CH2H2	0.357813	0.995414	0.00000	0.992859
PhCCH+CH3	0.00168534	0.997099	0.00262438	0.995483
PhCHCCH2+H	0.000988072	0.998087	0.00153861	0.997022
Ph+Allene	0.000956826	0.999044	0.00148995	0.998512
PhCH2CCH+H	0.000305642	0.999350	0.000475939	0.998988
Ph+MeAc	0.000221700	0.999572	0.000345227	0.999333
PhCCCH3+H	0.000192583	0.999764	0.000299885	0.999633
PAH7+H	8.18813e-05	0.999846	0.000127504	0.999760
rad30	6.20698e-05	0.999908	9.66537e-05	0.999857
PAH9+H	3.81793e-05	0.999946	5.94521e-05	0.999917
rad39	1.95088e-05	0.999966	3.03786e-05	0.999947
rad38	1.36529e-05	0.999979	2.12600e-05	0.999968
rad35	9.01876e-06	0.999988	1.40438e-05	0.999982
rad19anti	5.95507e-06	0.999994	9.27312e-06	0.999992
rad46	1.77410e-06	0.999996	2.76258e-06	0.999994
PAH3+H	1.66000e-06	0.999998	2.58491e-06	0.999997
rad60syn	7.95279e-07	0.999999	1.23839e-06	0.999998
rad60anti	4.32684e-07	0.999999	6.73766e-07	0.999999
rad59	2.41974e-07	0.999999	3.76797e-07	0.999999
rad37	1.83190e-07	1.000000	2.85260e-07	0.999999
rad19syn	1.72530e-07	1.000000	2.68660e-07	1.000000
rad50	1.19165e-07	1.000000	1.85561e-07	1.000000
rad54	4.18728e-08	1.000000	6.52034e-08	1.000000
PhcycC3H3_A+H	1.64006e-08	1.000000	2.55387e-08	1.000000
rad67	7.68852e-09	1.000000	1.19724e-08	1.000000
PAH10+CH3	5.46437e-09	1.000000	8.50900e-09	1.000000
rad51	5.02950e-09	1.000000	7.83183e-09	1.000000
rad52	3.84615e-09	1.000000	5.98914e-09	1.000000
rad70	3.82635e-09	1.000000	5.95831e-09	1.000000
PAH1+H	3.10823e-09	1.000000	4.84008e-09	1.000000
rad6	1.67434e-09	1.000000	2.60725e-09	1.000000
rad58	1.60256e-09	1.000000	2.49548e-09	1.000000
rad55	1.47818e-09	1.000000	2.30179e-09	1.000000
rad62	1.10199e-09	1.000000	1.71599e-09	1.000000
rad43	3.94167e-10	1.000000	6.13788e-10	1.000000

rad34	3.84581e-10	1.000000	5.98861e-10	1.00000
rad65	1.60360e-10	1.000000	2.49709e-10	1.00000
rad23	7.04990e-11	1.000000	1.09780e-10	1.00000
rad53	2.97670e-11	1.000000	4.63526e-11	1.00000
rad45	2.49643e-11	1.000000	3.88739e-11	1.00000
rad64	1.24784e-11	1.000000	1.94311e-11	1.00000
rad2	1.15958e-11	1.000000	1.80567e-11	1.00000
rad42	1.04400e-11	1.000000	1.62569e-11	1.00000
rad56	7.66816e-12	1.000000	1.19407e-11	1.00000
rad28	2.98018e-12	1.000000	4.64068e-12	1.00000
rad36	2.17475e-12	1.000000	3.38648e-12	1.00000
rad1	1.96890e-12	1.000000	3.06593e-12	1.00000
rad41	1.62840e-12	1.000000	2.53571e-12	1.00000
rad68syn	1.23579e-12	1.000000	1.92434e-12	1.00000
rad73	1.10908e-12	1.000000	1.72704e-12	1.00000
rad68anti	8.37799e-13	1.000000	1.30460e-12	1.00000
rad20	6.04409e-13	1.000000	9.41174e-13	1.00000
rad26	5.80519e-13	1.000000	9.03973e-13	1.00000
rad21	5.11601e-13	1.000000	7.96654e-13	1.00000
rad71	4.98599e-13	1.000000	7.76407e-13	1.00000
rad7	4.08998e-13	1.000000	6.36884e-13	1.00000
PAH8+H	3.70682e-13	1.000000	5.77218e-13	1.00000
rad10	3.03676e-13	1.000000	4.72877e-13	1.00000
rad11	2.88226e-13	1.000000	4.48820e-13	1.00000
rad3	1.52040e-13	1.000000	2.36753e-13	1.00000
rad9	1.37931e-13	1.000000	2.14783e-13	1.00000
rad61	1.15880e-13	1.000000	1.80446e-13	1.00000
rad40syn	1.14027e-13	1.000000	1.77560e-13	1.00000
rad4	1.05716e-13	1.000000	1.64619e-13	1.00000
rad13	7.07256e-14	1.000000	1.10132e-13	1.00000
rad40anti	4.55885e-14	1.000000	7.09894e-14	1.00000
rad24	5.74732e-15	1.000000	8.94960e-15	1.00000
rad72	3.82990e-15	1.000000	5.96383e-15	1.00000
rad33	3.66700e-15	1.000000	5.71017e-15	1.00000
rad18	2.21698e-15	1.000000	3.45223e-15	1.00000
rad22	4.18734e-16	1.000000	6.52043e-16	1.00000
rad25	2.20754e-16	1.000000	3.43754e-16	1.00000
rad27	1.37385e-16	1.000000	2.13934e-16	1.00000
rad14	1.05439e-16	1.000000	1.64187e-16	1.00000
rad12	3.93756e-17	1.000000	6.13149e-17	1.00000
rad15	2.74308e-17	1.000000	4.27146e-17	1.00000
rad31	3.17850e-18	1.000000	4.94950e-18	1.00000
rad8	5.05695e-21	1.000000	7.87458e-21	1.00000
rad47	3.22876e-22	1.000000	5.02776e-22	1.00000
rad5	5.34408e-23	1.000000	8.32170e-23	1.00000

0.100000000E-04 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.23691e-15 (1.00)	1.20781e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.533143	0.533143	0.987405	0.987405
Benzyl+C2H2	0.460056	0.993199	0.00000	0.987405
PhCCH+CH3	0.00197845	0.995177	0.00366418	0.991069
Ph+Allene	0.00184724	0.997025	0.00342117	0.994490
PhCHCCH2+H	0.00145011	0.998475	0.00268567	0.997176
PhCH2CCH+H	0.000695141	0.999170	0.00128743	0.998463
Ph+MeAc	0.000262360	0.999432	0.000485903	0.998949
PhCCCH3+H	0.000178027	0.999610	0.000329715	0.999279
PAH7+H	0.000130563	0.999741	0.000241809	0.999521
rad30	9.13367e-05	0.999832	0.000169160	0.999690
PAH9+H	6.89547e-05	0.999901	0.000127707	0.999818
rad39	3.03500e-05	0.999932	5.62096e-05	0.999874
rad38	2.54970e-05	0.999957	4.72217e-05	0.999921
rad35	1.54295e-05	0.999972	2.85761e-05	0.999950
rad19anti	1.36963e-05	0.999986	2.53661e-05	0.999975
PAH3+H	4.67729e-06	0.999991	8.66256e-06	0.999984
rad46	3.89965e-06	0.999995	7.22232e-06	0.999991
rad60syn	1.65646e-06	0.999996	3.06785e-06	0.999994
rad60anti	9.23124e-07	0.999997	1.70967e-06	0.999996
rad59	6.45414e-07	0.999998	1.19534e-06	0.999997
rad19syn	4.72655e-07	0.999998	8.75378e-07	0.999998
rad50	4.02267e-07	0.999999	7.45018e-07	0.999999
rad37	2.45621e-07	0.999999	4.54902e-07	0.999999
rad54	1.26767e-07	0.999999	2.34777e-07	0.999999
PhcycC3H3_A+H	6.09438e-08	0.999999	1.12871e-07	0.999999
rad67	3.29353e-08	0.999999	6.09977e-08	0.999999

rad51	2.38569e-08	0.999999	4.41841e-08	1.000000
rad52	1.55663e-08	0.999999	2.88295e-08	1.000000
PAH10+CH3	1.49502e-08	0.999999	2.76885e-08	1.000000
rad70	1.36637e-08	0.999999	2.53058e-08	1.000000
PAH1+H	1.19205e-08	0.999999	2.20772e-08	1.000000
rad58	7.00658e-09	0.999999	1.29765e-08	1.000000
rad55	5.08717e-09	0.999999	9.42168e-09	1.000000
rad62	2.86002e-09	0.999999	5.29688e-09	1.000000
rad34	1.59465e-09	0.999999	2.95337e-09	1.000000
rad43	8.01058e-10	0.999999	1.48360e-09	1.000000
rad65	7.61967e-10	0.999999	1.41120e-09	1.000000
rad6	3.37440e-10	0.999999	6.24954e-10	1.000000
rad53	1.57207e-10	0.999999	2.91154e-10	1.000000
rad64	6.33006e-11	0.999999	1.17236e-10	1.000000
rad56	5.17481e-11	0.999999	9.58399e-11	1.000000
rad42	3.80337e-11	0.999999	7.04401e-11	1.000000
rad23	3.06935e-11	0.999999	5.68458e-11	1.000000
rad45	1.21337e-11	0.999999	2.24722e-11	1.000000
rad73	1.18609e-11	0.999999	2.19669e-11	1.000000
rad68syn	8.78419e-12	0.999999	1.62687e-11	1.000000
rad68anti	5.91483e-12	0.999999	1.09545e-11	1.000000
rad71	5.78570e-12	0.999999	1.07154e-11	1.000000
rad41	5.10940e-12	0.999999	9.46284e-12	1.000000
PAH8+H	3.92502e-12	0.999999	7.26931e-12	1.000000
rad2	2.67819e-12	0.999999	4.96014e-12	1.000000
rad36	1.09309e-12	0.999999	2.02446e-12	1.000000
rad40syn	1.02757e-12	0.999999	1.90311e-12	1.000000
rad20	8.81741e-13	0.999999	1.63302e-12	1.000000
rad61	8.00021e-13	0.999999	1.48168e-12	1.000000
rad28	6.64541e-13	0.999999	1.23076e-12	1.000000
rad21	6.41660e-13	0.999999	1.18838e-12	1.000000
rad1	5.13938e-13	0.999999	9.51837e-13	1.000000
rad40anti	4.38220e-13	0.999999	8.11603e-13	1.000000
rad11	3.01830e-13	0.999999	5.59003e-13	1.000000
rad9	2.22252e-13	0.999999	4.11620e-13	1.000000
rad7	2.00006e-13	0.999999	3.70420e-13	1.000000
rad26	1.41862e-13	0.999999	2.62735e-13	1.000000
rad13	1.28904e-13	0.999999	2.38736e-13	1.000000
rad10	1.08319e-13	0.999999	2.00611e-13	1.000000
rad3	4.60184e-14	0.999999	8.52281e-14	1.000000
rad4	3.36418e-14	0.999999	6.23062e-14	1.000000
rad72	1.80842e-14	0.999999	3.34927e-14	1.000000
rad18	7.80221e-15	0.999999	1.44501e-14	1.000000
rad24	5.90769e-15	0.999999	1.09413e-14	1.000000
rad33	4.69874e-15	0.999999	8.70228e-15	1.000000
rad25	3.13988e-16	0.999999	5.81520e-16	1.000000
rad22	2.72434e-16	0.999999	5.04560e-16	1.000000
rad27	1.11714e-16	0.999999	2.06899e-16	1.000000
rad14	9.24384e-17	0.999999	1.71200e-16	1.000000
rad12	8.61563e-17	0.999999	1.59565e-16	1.000000
rad15	4.01058e-17	0.999999	7.42778e-17	1.000000
rad31	1.86001e-18	0.999999	3.44483e-18	1.000000
rad8	3.09659e-19	0.999999	5.73503e-19	1.000000
rad47	1.58934e-21	0.999999	2.94352e-21	1.000000
rad5	1.45269e-22	0.999999	2.69044e-22	1.000000

0.100000000E-04 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.11075e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.550759	0.550759	0.00000	0.00000
Indene+H	0.439889	0.990648	0.979181	0.979181
Ph+Allene	0.00299528	0.993643	0.00666742	0.985848
PhCCH+CH3	0.00208760	0.995731	0.00464694	0.990495
PhCHCCH2+H	0.00194544	0.997676	0.00433051	0.994826
PhCH2CCH+H	0.00132191	0.998998	0.00294254	0.997768
Ph+MeAc	0.000277389	0.999276	0.000617461	0.998386
PAH7+H	0.000179385	0.999455	0.000399306	0.998785
PhCCCH3+H	0.000149168	0.999604	0.000332043	0.999117
rad30	0.000123015	0.999727	0.000273827	0.999391
PAH9+H	0.000111696	0.999839	0.000248632	0.999640
rad38	4.24978e-05	0.999881	9.45991e-05	0.999734
rad39	4.04278e-05	0.999922	8.99912e-05	0.999824
rad19anti	2.71780e-05	0.999949	6.04975e-05	0.999885
rad35	2.39104e-05	0.999973	5.32238e-05	0.999938
PAH3+H	1.09195e-05	0.999984	2.43064e-05	0.999962

rad46	7.44861e-06	0.999991	1.65804e-05	0.999979
rad60syn	2.99524e-06	0.999994	6.66734e-06	0.999986
rad60anti	1.70291e-06	0.999996	3.79064e-06	0.999989
rad59	1.43231e-06	0.999997	3.18828e-06	0.999993
rad50	1.10325e-06	0.999998	2.45581e-06	0.999995
rad19syn	1.02396e-06	1.000000	2.27932e-06	0.999997
rad37	3.04609e-07	1.000000	6.78052e-07	0.999998
rad54	2.97942e-07	1.000000	6.63211e-07	0.999999
PhcycC3H3_A+H	1.70469e-07	1.000000	3.79460e-07	0.999999
rad67	1.11020e-07	1.000000	2.47128e-07	0.999999
rad51	8.66322e-08	1.000000	1.92841e-07	0.999999
rad52	4.94927e-08	1.000000	1.10169e-07	1.000000
rad70	3.72387e-08	1.000000	8.28925e-08	1.000000
PAH10+CH3	3.55700e-08	1.000000	7.91780e-08	1.000000
PAH1+H	3.40420e-08	1.000000	7.57767e-08	1.000000
rad58	2.33985e-08	1.000000	5.20844e-08	1.000000
rad55	1.32727e-08	1.000000	2.95447e-08	1.000000
rad62	5.84585e-09	1.000000	1.30127e-08	1.000000
rad34	4.93271e-09	1.000000	1.09801e-08	1.000000
rad65	2.75376e-09	1.000000	6.12979e-09	1.000000
rad43	1.31323e-09	1.000000	2.92321e-09	1.000000
rad53	5.86805e-10	1.000000	1.30621e-09	1.000000
rad56	2.36331e-10	1.000000	5.26066e-10	1.000000
rad64	2.26679e-10	1.000000	5.04583e-10	1.000000
rad42	1.03252e-10	1.000000	2.29836e-10	1.000000
rad6	9.09596e-11	1.000000	2.02474e-10	1.000000
rad73	8.74477e-11	1.000000	1.94656e-10	1.000000
rad71	5.10330e-11	1.000000	1.13598e-10	1.000000
rad68syn	4.26222e-11	1.000000	9.48760e-11	1.000000
rad68anti	2.85346e-11	1.000000	6.35172e-11	1.000000
PAH8+H	2.67134e-11	1.000000	5.94633e-11	1.000000
rad23	1.43975e-11	1.000000	3.20484e-11	1.000000
rad41	1.21933e-11	1.000000	2.71419e-11	1.000000
rad45	6.12660e-12	1.000000	1.36377e-11	1.000000
rad40syn	6.09416e-12	1.000000	1.35655e-11	1.000000
rad61	4.16733e-12	1.000000	9.27637e-12	1.000000
rad40anti	2.75060e-12	1.000000	6.12276e-12	1.000000
rad20	7.93855e-13	1.000000	1.76710e-12	1.000000
rad2	6.97606e-13	1.000000	1.55285e-12	1.000000
rad36	5.63061e-13	1.000000	1.25336e-12	1.000000
rad21	5.10807e-13	1.000000	1.13704e-12	1.000000
rad11	4.63039e-13	1.000000	1.03071e-12	1.000000
rad72	2.33497e-13	1.000000	5.19759e-13	1.000000
rad7	2.31747e-13	1.000000	5.15864e-13	1.000000
rad9	2.26279e-13	1.000000	5.03691e-13	1.000000
rad28	1.87366e-13	1.000000	4.17071e-13	1.000000
rad13	1.66617e-13	1.000000	3.70885e-13	1.000000
rad1	1.45902e-13	1.000000	3.24773e-13	1.000000
rad10	6.51112e-14	1.000000	1.44936e-13	1.000000
rad26	4.46585e-14	1.000000	9.94087e-14	1.000000
rad18	2.44832e-14	1.000000	5.44989e-14	1.000000
rad3	1.56448e-14	1.000000	3.48250e-14	1.000000
rad4	1.17793e-14	1.000000	2.62205e-14	1.000000
rad24	4.56170e-15	1.000000	1.01542e-14	1.000000
rad33	3.94272e-15	1.000000	8.77639e-15	1.000000
rad25	3.94361e-16	1.000000	8.77838e-16	1.000000
rad22	3.18403e-16	1.000000	7.08758e-16	1.000000
rad12	1.26339e-16	1.000000	2.81227e-16	1.000000
rad14	7.49730e-17	1.000000	1.66888e-16	1.000000
rad27	7.01551e-17	1.000000	1.56164e-16	1.000000
rad15	4.17885e-17	1.000000	9.30201e-17	1.000000
rad8	3.02695e-18	1.000000	6.73791e-18	1.000000
rad31	1.11579e-18	1.000000	2.48372e-18	1.000000
rad47	5.97467e-21	1.000000	1.32995e-20	1.000000
rad5	4.64403e-22	1.000000	1.03375e-21	1.000000

0.100000000E-04 Pa, 1200.00000 K

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

Total | 8.84330e-15 (1.00) | 3.30079e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.626747	0.626747	0.00000	0.00000
Indene+H	0.361139	0.987886	0.967544	0.967544
Ph+Allene	0.00426331	0.992149	0.0114220	0.978966
PhCHCCH2+H	0.00242727	0.994577	0.00650302	0.985469
PhCH2CCH+H	0.00220912	0.996786	0.00591855	0.991388
PhCCH+CH3	0.00203529	0.998821	0.00545285	0.996840

Ph+MeAc	0.000271659	0.999093	0.000727813	0.997568
PAH7+H	0.000220958	0.999314	0.000591978	0.998160
PAH9+H	0.000166476	0.999480	0.000446015	0.998606
rad30	0.000155353	0.999635	0.000416215	0.999022
PhCCCH3+H	0.000117029	0.999752	0.000313538	0.999336
rad38	6.49367e-05	0.999817	0.000173975	0.999510
rad19anti	4.80909e-05	0.999865	0.000128843	0.999639
rad39	4.80571e-05	0.999914	0.000128752	0.999768
rad35	3.43899e-05	0.999948	9.21355e-05	0.999860
PAH3+H	2.21253e-05	0.999970	5.92770e-05	0.999919
rad46	1.27762e-05	0.999983	3.42294e-05	0.999953
rad60syn	4.87439e-06	0.999988	1.30592e-05	0.999966
rad60anti	2.81860e-06	0.999991	7.55145e-06	0.999974
rad59	2.76936e-06	0.999993	7.41953e-06	0.999981
rad50	2.57972e-06	0.999996	6.91145e-06	0.999988
rad19syn	1.86136e-06	0.999998	4.98686e-06	0.999993
rad54	5.79322e-07	0.999998	1.55209e-06	0.999995
PhcycC3H3_A+H	3.85542e-07	0.999999	1.03292e-06	0.999996
rad37	3.71909e-07	0.999999	9.96399e-07	0.999997
rad67	3.10056e-07	0.999999	8.30686e-07	0.999998
rad51	2.56407e-07	1.000000	6.86951e-07	0.999998
rad52	1.30814e-07	1.000000	3.50469e-07	0.999999
rad70	8.31661e-08	1.000000	2.22814e-07	0.999999
PAH10+CH3	7.86243e-08	1.000000	2.10646e-07	0.999999
PAH1+H	7.84241e-08	1.000000	2.10109e-07	0.999999
rad58	6.38230e-08	1.000000	1.70991e-07	0.999999
rad55	2.81615e-08	1.000000	7.54487e-08	0.999999
rad34	1.22937e-08	1.000000	3.29365e-08	0.999999
rad62	1.00322e-08	1.000000	2.68777e-08	1.000000
rad65	8.07954e-09	1.000000	2.16463e-08	1.000000
rad43	1.86209e-09	1.000000	4.98881e-09	1.000000
rad53	1.69057e-09	1.000000	4.52927e-09	1.000000
rad56	8.06531e-10	1.000000	2.16081e-09	1.000000
rad64	6.30249e-10	1.000000	1.68853e-09	1.000000
rad73	4.67962e-10	1.000000	1.25374e-09	1.000000
rad71	3.19770e-10	1.000000	8.56712e-10	1.000000
rad42	2.25979e-10	1.000000	6.05431e-10	1.000000
rad68syn	1.55936e-10	1.000000	4.17775e-10	1.000000
PAH8+H	1.30631e-10	1.000000	3.49980e-10	1.000000
rad68anti	1.03878e-10	1.000000	2.78304e-10	1.000000
rad6	3.53904e-11	1.000000	9.48161e-11	1.000000
rad40syn	2.64823e-11	1.000000	7.09498e-11	1.000000
rad41	2.43325e-11	1.000000	6.51905e-11	1.000000
rad61	1.76267e-11	1.000000	4.72246e-11	1.000000
rad40anti	1.25562e-11	1.000000	3.36398e-11	1.000000
rad23	7.09671e-12	1.000000	1.90131e-11	1.000000
rad45	3.18122e-12	1.000000	8.52297e-12	1.000000
rad72	2.17970e-12	1.000000	5.83974e-12	1.000000
rad11	6.27188e-13	1.000000	1.68033e-12	1.000000
rad20	5.25317e-13	1.000000	1.40740e-12	1.000000
rad7	3.58619e-13	1.000000	9.60792e-13	1.000000
rad21	3.17166e-13	1.000000	8.49734e-13	1.000000
rad36	2.96768e-13	1.000000	7.95085e-13	1.000000
rad9	1.99693e-13	1.000000	5.35007e-13	1.000000
rad2	1.97813e-13	1.000000	5.29971e-13	1.000000
rad13	1.37741e-13	1.000000	3.69028e-13	1.000000
rad28	7.19927e-14	1.000000	1.92879e-13	1.000000
rad18	5.20691e-14	1.000000	1.39501e-13	1.000000
rad10	4.76684e-14	1.000000	1.27711e-13	1.000000
rad1	4.34633e-14	1.000000	1.16444e-13	1.000000
rad26	1.85498e-14	1.000000	4.96976e-14	1.000000
rad3	5.72174e-15	1.000000	1.53294e-14	1.000000
rad4	4.38408e-15	1.000000	1.17456e-14	1.000000
rad24	3.33436e-15	1.000000	8.93325e-15	1.000000
rad33	2.51841e-15	1.000000	6.74719e-15	1.000000
rad22	7.69364e-16	1.000000	2.06124e-15	1.000000
rad25	3.68477e-16	1.000000	9.87203e-16	1.000000
rad12	1.57453e-16	1.000000	4.21839e-16	1.000000
rad15	5.97254e-17	1.000000	1.60013e-16	1.000000
rad14	4.93388e-17	1.000000	1.32186e-16	1.000000
rad27	3.32785e-17	1.000000	8.91580e-17	1.000000
rad8	9.89268e-18	1.000000	2.65039e-17	1.000000
rad31	6.76592e-19	1.000000	1.81269e-18	1.000000
rad47	1.81317e-20	1.000000	4.85775e-20	1.000000
rad5	1.63898e-21	1.000000	4.39107e-21	1.000000

0.100000000E-04 Pa, 1300.00000 K

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

Total | 1.52810e-14 (1.00) 4.76644e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.688080	0.688080	0.000000	0.000000
Indene+H	0.296944	0.985024	0.951986	0.951986
Ph+Allene	0.00550433	0.990528	0.0176466	0.969633
PhCH2CCH+H	0.00336231	0.993891	0.0107794	0.980412
PhCHCCH2+H	0.00286585	0.996756	0.00918775	0.989600
PhCCH+CH3	0.00187197	0.998628	0.00600145	0.995601
Ph+MeAc	0.000252917	0.998881	0.000810838	0.996412
PAH7+H	0.000251839	0.999133	0.000807383	0.997219
PAH9+H	0.000232565	0.999366	0.000745592	0.997965
rad30	0.000187145	0.999553	0.000599977	0.998565
rad38	9.27358e-05	0.999646	0.000297306	0.998862
PhCCCH3+H	8.81977e-05	0.999734	0.000282757	0.999145
rad19anti	7.76866e-05	0.999812	0.000249059	0.999394
rad39	5.27138e-05	0.999864	0.000168998	0.999563
rad35	4.67240e-05	0.999911	0.000149795	0.999713
PAH3+H	4.01931e-05	0.999951	0.000128857	0.999842
rad46	2.01481e-05	0.999971	6.45939e-05	0.999906
rad60syn	7.32140e-06	0.999979	2.34720e-05	0.999930
rad50	5.32215e-06	0.999984	1.70625e-05	0.999947
rad59	4.81766e-06	0.999989	1.54452e-05	0.999962
rad60anti	4.29551e-06	0.999993	1.37712e-05	0.999976
rad19syn	2.96344e-06	0.999996	9.50065e-06	0.999986
rad54	9.75309e-07	0.999997	3.12679e-06	0.999989
rad67	7.44257e-07	0.999998	2.38605e-06	0.999991
PhcycC3H3_A+H	7.41843e-07	0.999999	2.37831e-06	0.999993
rad51	6.46585e-07	0.999999	2.07292e-06	0.999996
rad37	4.66727e-07	1.000000	1.49630e-06	0.999997
rad52	2.99170e-07	1.000000	9.59125e-07	0.999998
PAH10+CH3	1.66594e-07	1.000000	5.34093e-07	0.999999
rad70	1.60097e-07	1.000000	5.13264e-07	0.999999
PAH1+H	1.54574e-07	1.000000	4.95557e-07	1.000000
rad58	1.48959e-07	1.000000	4.77556e-07	1.000000
rad55	5.10750e-08	1.000000	1.63744e-07	1.000000
rad34	2.60671e-08	1.000000	8.35698e-08	1.000000
rad65	2.01508e-08	1.000000	6.46025e-08	1.000000
rad62	1.51327e-08	1.000000	4.85146e-08	1.000000
rad53	3.99906e-09	1.000000	1.28208e-08	1.000000
rad43	2.42224e-09	1.000000	7.76557e-09	1.000000
rad56	2.20471e-09	1.000000	7.06819e-09	1.000000
rad73	1.94725e-09	1.000000	6.24278e-09	1.000000
rad71	1.52460e-09	1.000000	4.88777e-09	1.000000
rad64	1.45722e-09	1.000000	4.67176e-09	1.000000
PAH8+H	4.97086e-10	1.000000	1.59363e-09	1.000000
rad68syn	4.61120e-10	1.000000	1.47833e-09	1.000000
rad42	4.21653e-10	1.000000	1.35180e-09	1.000000
rad68anti	3.05850e-10	1.000000	9.80538e-10	1.000000
rad40syn	9.09557e-11	1.000000	2.91599e-10	1.000000
rad61	6.30317e-11	1.000000	2.02076e-10	1.000000
rad40anti	4.50261e-11	1.000000	1.44351e-10	1.000000
rad41	4.39793e-11	1.000000	1.40995e-10	1.000000
rad6	2.01141e-11	1.000000	6.44847e-11	1.000000
rad72	1.45376e-11	1.000000	4.66069e-11	1.000000
rad23	3.65136e-12	1.000000	1.17061e-11	1.000000
rad45	1.69581e-12	1.000000	5.43666e-12	1.000000
rad11	6.09155e-13	1.000000	1.95292e-12	1.000000
rad7	4.50021e-13	1.000000	1.44274e-12	1.000000
rad20	3.18168e-13	1.000000	1.02003e-12	1.000000
rad21	1.87706e-13	1.000000	6.01774e-13	1.000000
rad9	1.64787e-13	1.000000	5.28298e-13	1.000000
rad36	1.60343e-13	1.000000	5.14050e-13	1.000000
rad13	8.37788e-14	1.000000	2.68591e-13	1.000000
rad18	6.76201e-14	1.000000	2.16786e-13	1.000000
rad2	5.92328e-14	1.000000	1.89897e-13	1.000000
rad28	3.93617e-14	1.000000	1.26192e-13	1.000000
rad10	2.99310e-14	1.000000	9.59571e-14	1.000000
rad1	1.34150e-14	1.000000	4.30077e-14	1.000000
rad26	9.68013e-15	1.000000	3.10340e-14	1.000000
rad22	2.64145e-15	1.000000	8.46835e-15	1.000000
rad24	2.44030e-15	1.000000	7.82347e-15	1.000000
rad3	2.20638e-15	1.000000	7.07353e-15	1.000000
rad4	1.71117e-15	1.000000	5.48593e-15	1.000000
rad33	1.48885e-15	1.000000	4.77318e-15	1.000000
rad25	2.76126e-16	1.000000	8.85245e-16	1.000000
rad15	2.10432e-16	1.000000	6.74633e-16	1.000000
rad12	1.79600e-16	1.000000	5.75787e-16	1.000000
rad14	2.71732e-17	1.000000	8.71158e-17	1.000000

rad8	1.89596e-17	1.00000	6.07834e-17	1.00000
rad27	1.34962e-17	1.00000	4.32682e-17	1.00000
rad31	4.14038e-19	1.00000	1.32738e-18	1.00000
rad47	4.64663e-20	1.00000	1.48968e-19	1.00000
rad5	5.66185e-21	1.00000	1.81516e-20	1.00000

0.100000000E-04 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.46691e-14 (1.00)	6.50155e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.736450	0.736450	0.00000	0.00000
Indene+H	0.245659	0.982109	0.932117	0.932117
Ph+Allene	0.00660861	0.988718	0.0250754	0.957192
PhCH2CCH+H	0.00478128	0.993499	0.0181419	0.975334
PhCHCCH2+H	0.00325578	0.996755	0.0123536	0.987688
PhCCH+CH3	0.00165084	0.998406	0.00626388	0.993952
PAH9+H	0.000308661	0.998714	0.00117117	0.995123
PAH7+H	0.000272630	0.998987	0.00103445	0.996157
Ph+MeAc	0.000228420	0.999215	0.000866707	0.997024
rad30	0.000217655	0.999433	0.000825859	0.997850
rad38	0.000125529	0.999558	0.000476301	0.998326
rad19anti	0.000116511	0.999675	0.000442085	0.998768
PAH3+H	6.69984e-05	0.999742	0.000254215	0.999023
PhCCCH3+H	6.53819e-05	0.999807	0.000248082	0.999271
rad35	6.07397e-05	0.999868	0.000230468	0.999501
rad39	5.49305e-05	0.999923	0.000208426	0.999710
rad46	2.97185e-05	0.999953	0.000112762	0.999822
rad60syn	1.03332e-05	0.999963	3.92077e-05	0.999862
rad50	9.93210e-06	0.999973	3.76859e-05	0.999899
rad59	7.71556e-06	0.999981	2.92756e-05	0.999928
rad60anti	6.13929e-06	0.999987	2.32946e-05	0.999952
rad19syn	4.26609e-06	0.999991	1.61870e-05	0.999968
rad67	1.57759e-06	0.999993	5.98594e-06	0.999974
rad54	1.46998e-06	0.999994	5.57763e-06	0.999980
rad51	1.43445e-06	0.999996	5.44281e-06	0.999985
PhcycC3H3_A+H	1.26043e-06	0.999997	4.78252e-06	0.999990
rad37	6.13241e-07	0.999997	2.32685e-06	0.999992
rad52	6.09458e-07	0.999998	2.31250e-06	0.999994
PAH10+CH3	3.40070e-07	0.999998	1.29034e-06	0.999996
rad58	3.07503e-07	0.999999	1.16677e-06	0.999997
rad70	2.75599e-07	0.999999	1.04572e-06	0.999998
PAH1+H	2.72543e-07	0.999999	1.03413e-06	0.999999
rad55	8.21114e-08	0.999999	3.11559e-07	0.999999
rad34	4.89123e-08	0.999999	1.85590e-07	0.999999
rad65	4.41608e-08	0.999999	1.67561e-07	1.000000
rad62	2.07591e-08	0.999999	7.87674e-08	1.000000
rad53	8.12265e-09	0.999999	3.08202e-08	1.000000
rad73	6.62662e-09	0.999999	2.51437e-08	1.000000
rad71	5.83660e-09	0.999999	2.21461e-08	1.000000
rad56	5.07502e-09	0.999999	1.92564e-08	1.000000
rad43	3.05585e-09	0.999999	1.15950e-08	1.000000
rad64	2.94785e-09	0.999999	1.11852e-08	1.000000
PAH8+H	1.55760e-09	0.999999	5.91010e-09	1.000000
rad68syn	1.15822e-09	0.999999	4.39468e-09	1.000000
rad68anti	7.65284e-10	0.999999	2.90376e-09	1.000000
rad42	6.99013e-10	0.999999	2.65230e-09	1.000000
rad40syn	2.60577e-10	0.999999	9.88719e-10	1.000000
rad61	1.94739e-10	0.999999	7.38907e-10	1.000000
rad40anti	1.33993e-10	0.999999	5.08417e-10	1.000000
rad41	7.68994e-11	0.999999	2.91783e-10	1.000000
rad72	7.37097e-11	0.999999	2.79681e-10	1.000000
rad6	1.55477e-11	0.999999	5.89933e-11	1.000000
rad23	1.96080e-12	0.999999	7.43997e-12	1.000000
rad45	9.29279e-13	0.999999	3.52601e-12	1.000000
rad11	4.33597e-13	0.999999	1.64522e-12	1.000000
rad7	3.95337e-13	0.999999	1.50005e-12	1.000000
rad20	1.95003e-13	0.999999	7.39910e-13	1.000000
rad9	1.30624e-13	0.999999	4.95634e-13	1.000000
rad21	1.13739e-13	0.999999	4.31567e-13	1.000000
rad36	8.90137e-14	0.999999	3.37749e-13	1.000000
rad18	5.84531e-14	0.999999	2.21792e-13	1.000000
rad13	4.53313e-14	0.999999	1.72003e-13	1.000000
rad28	2.96490e-14	0.999999	1.12499e-13	1.000000
rad2	1.84932e-14	0.999999	7.01696e-14	1.000000
rad10	1.44850e-14	0.999999	5.49614e-14	1.000000
rad22	8.82156e-15	0.999999	3.34721e-14	1.000000

rad26	5.68325e-15	0.999999	2.15643e-14	1.000000
rad1	4.28088e-15	0.999999	1.62432e-14	1.000000
rad24	1.80067e-15	0.999999	6.83237e-15	1.000000
rad3	8.90027e-16	0.999999	3.37708e-15	1.000000
rad33	8.79969e-16	0.999999	3.33891e-15	1.000000
rad4	6.96945e-16	0.999999	2.64446e-15	1.000000
rad15	6.35707e-16	0.999999	2.41209e-15	1.000000
rad12	1.93287e-16	0.999999	7.33399e-16	1.000000
rad25	1.92135e-16	0.999999	7.29028e-16	1.000000
rad8	2.79512e-17	0.999999	1.06057e-16	1.000000
rad14	1.41992e-17	0.999999	5.38766e-17	1.000000
rad27	5.43645e-18	0.999999	2.06278e-17	1.000000
rad31	2.56226e-19	0.999999	9.72211e-19	1.000000
rad47	1.04027e-19	0.999999	3.94715e-19	1.000000
rad5	1.67107e-20	0.999999	6.34062e-20	1.000000

0.100000000E-04 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.51560e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.774067	0.774067	0.00000	0.00000
Indene+H	0.205065	0.979132	0.907636	0.907636
Ph+Allene	0.00752036	0.986652	0.0332858	0.940922
PhCH2CCH+H	0.00646723	0.993120	0.0286246	0.969546
PhCHCCH2+H	0.00361205	0.996732	0.0159873	0.985534
PhCCH+CH3	0.00141397	0.998146	0.00625837	0.991792
PAH9+H	0.000393094	0.998539	0.00173987	0.993532
PAH7+H	0.000286546	0.998825	0.00126828	0.994800
rad30	0.000246477	0.999072	0.00109093	0.995891
Ph+MeAc	0.000203626	0.999275	0.000901268	0.996792
rad19anti	0.000164236	0.999440	0.000726923	0.997519
rad38	0.000162728	0.999602	0.000720251	0.998240
PAH3+H	0.000104218	0.999707	0.000461281	0.998701
rad35	7.62565e-05	0.999783	0.000337518	0.999038
rad39	5.58557e-05	0.999839	0.000247223	0.999286
PhCCCH3+H	4.89506e-05	0.999888	0.000216660	0.999502
rad46	4.15217e-05	0.999929	0.000183779	0.999686
rad50	1.70754e-05	0.999946	7.55771e-05	0.999762
rad60syn	1.38815e-05	0.999960	6.14410e-05	0.999823
rad59	1.15663e-05	0.999972	5.11935e-05	0.999874
rad60anti	8.33859e-06	0.999980	3.69074e-05	0.999911
rad19syn	5.68956e-06	0.999986	2.51825e-05	0.999936
rad67	3.01383e-06	0.999989	1.33395e-05	0.999950
rad51	2.86542e-06	0.999992	1.26826e-05	0.999962
rad54	2.03370e-06	0.999994	9.00134e-06	0.999971
PhcycC3H3_A+H	1.94411e-06	0.999996	8.60479e-06	0.999980
rad52	1.12959e-06	0.999997	4.99968e-06	0.999985
rad37	8.38280e-07	0.999997	3.71030e-06	0.999989
PAH10+CH3	6.63376e-07	0.999998	2.93617e-06	0.999992
rad58	5.75067e-07	0.999999	2.54530e-06	0.999994
PAH1+H	4.44629e-07	0.999999	1.96797e-06	0.999996
rad70	4.35873e-07	1.000000	1.92921e-06	0.999998
rad55	1.20222e-07	1.000000	5.32112e-07	0.999999
rad65	8.70999e-08	1.000000	3.85512e-07	0.999999
rad34	8.35876e-08	1.000000	3.69966e-07	0.999999
rad62	2.65880e-08	1.000000	1.17681e-07	0.999999
rad73	1.91029e-08	1.000000	8.45513e-08	1.000000
rad71	1.86182e-08	1.000000	8.24060e-08	1.000000
rad53	1.46409e-08	1.000000	6.48019e-08	1.000000
rad56	1.02046e-08	1.000000	4.51664e-08	1.000000
rad64	5.41559e-09	1.000000	2.39699e-08	1.000000
PAH8+H	4.18063e-09	1.000000	1.85038e-08	1.000000
rad43	3.92947e-09	1.000000	1.73922e-08	1.000000
rad68syn	2.56012e-09	1.000000	1.13313e-08	1.000000
rad68anti	1.68587e-09	1.000000	7.46183e-09	1.000000
rad42	1.06259e-09	1.000000	4.70314e-09	1.000000
rad40syn	6.46765e-10	1.000000	2.86264e-09	1.000000
rad61	5.26863e-10	1.000000	2.33195e-09	1.000000
rad40anti	3.43892e-10	1.000000	1.52210e-09	1.000000
rad72	2.96653e-10	1.000000	1.31301e-09	1.000000
rad41	1.35344e-10	1.000000	5.99046e-10	1.000000
rad6	1.41899e-11	1.000000	6.28060e-11	1.000000
rad23	1.10925e-12	1.000000	4.90964e-12	1.000000
rad45	5.24299e-13	1.000000	2.32060e-12	1.000000
rad11	2.60370e-13	1.000000	1.15242e-12	1.000000
rad7	2.59919e-13	1.000000	1.15043e-12	1.000000

rad20	1.23074e-13	1.00000	5.44737e-13	1.000000
rad9	1.01189e-13	1.00000	4.47873e-13	1.000000
rad21	7.10953e-14	1.00000	3.14675e-13	1.000000
rad36	5.08603e-14	1.00000	2.25112e-13	1.000000
rad18	4.05517e-14	1.00000	1.79485e-13	1.000000
rad28	2.71691e-14	1.00000	1.20253e-13	1.000000
rad13	2.40633e-14	1.00000	1.06507e-13	1.000000
rad22	2.30141e-14	1.00000	1.01863e-13	1.000000
rad2	6.00079e-15	1.00000	2.65601e-14	1.000000
rad10	5.74655e-15	1.00000	2.54348e-14	1.000000
rad26	3.31446e-15	1.00000	1.46701e-14	1.000000
rad1	1.41445e-15	1.00000	6.26049e-15	1.000000
rad24	1.34246e-15	1.00000	5.94185e-15	1.000000
rad15	1.15007e-15	1.00000	5.09032e-15	1.000000
rad33	5.25047e-16	1.00000	2.32391e-15	1.000000
rad3	3.74244e-16	1.00000	1.65644e-15	1.000000
rad4	2.95473e-16	1.00000	1.30779e-15	1.000000
rad12	1.99725e-16	1.00000	8.84000e-16	1.000000
rad25	1.32639e-16	1.00000	5.87072e-16	1.000000
rad8	3.57803e-17	1.00000	1.58367e-16	1.000000
rad14	7.59790e-18	1.00000	3.36290e-17	1.000000
rad27	2.30908e-18	1.00000	1.02202e-17	1.000000
rad47	2.08549e-19	1.00000	9.23059e-19	1.000000
rad31	1.60839e-19	1.00000	7.11887e-19	1.000000
rad5	3.76886e-20	1.00000	1.66813e-19	1.000000

0.100000000E-04 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	1.49145e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837640	0.837640	0.000000	0.000000
Indene+H	0.133064	0.970704	0.819559	0.819559
PhCH2CCH+H	0.0118056	0.982510	0.0727127	0.892272
Ph+Allene	0.00950091	0.992011	0.0585175	0.950789
PhCHCCH2+H	0.00446803	0.996479	0.0275192	0.978308
PhCCH+CH3	0.000861597	0.997340	0.00530671	0.983615
PAH9+H	0.000556652	0.997897	0.00342850	0.987044
rad30	0.000325000	0.998222	0.00200173	0.989045
rad19anti	0.000321503	0.998543	0.00198018	0.991026
rad38	0.000287109	0.998830	0.00176835	0.992794
PAH7+H	0.000286344	0.999117	0.00176363	0.994557
PAH3+H	0.000275296	0.999392	0.00169559	0.996253
Ph+MeAc	0.000167695	0.999560	0.00103286	0.997286
rad35	0.000110066	0.999670	0.000677915	0.997964
rad46	7.52920e-05	0.999745	0.000463735	0.998428
rad39	5.82425e-05	0.999803	0.000358724	0.998786
rad50	4.36581e-05	0.999847	0.000268897	0.999055
PhCCCH3+H	3.20470e-05	0.999879	0.000197382	0.999253
rad59	2.75338e-05	0.999907	0.000169584	0.999422
rad60syn	2.64498e-05	0.999933	0.000162908	0.999585
rad60anti	1.77452e-05	0.999951	0.000109295	0.999694
rad51	1.06304e-05	0.999961	6.54744e-05	0.999760
rad67	1.00266e-05	0.999971	6.17554e-05	0.999822
rad19syn	8.12817e-06	0.999980	5.00626e-05	0.999872
PhcycC3H3_A+H	4.32964e-06	0.999984	2.66669e-05	0.999898
rad52	3.62585e-06	0.999988	2.23321e-05	0.999921
rad54	3.10468e-06	0.999991	1.91222e-05	0.999940
PAH10+CH3	2.60306e-06	0.999993	1.60326e-05	0.999956
rad58	2.01823e-06	0.999995	1.24306e-05	0.999968
rad37	1.70772e-06	0.999997	1.05181e-05	0.999979
PAH1+H	1.10635e-06	0.999998	6.81419e-06	0.999986
rad70	1.04847e-06	0.999999	6.45765e-06	0.999992
rad65	3.08348e-07	0.999999	1.89916e-06	0.999994
rad34	2.42002e-07	1.000000	1.49052e-06	0.999995
rad55	2.29000e-07	1.000000	1.41044e-06	0.999997
rad71	1.90754e-07	1.000000	1.17488e-06	0.999998
rad73	1.56380e-07	1.000000	9.63169e-07	0.999999
rad53	4.44391e-08	1.000000	2.73707e-07	0.999999
rad62	4.00911e-08	1.000000	2.46927e-07	1.000000
rad56	3.57943e-08	1.000000	2.20463e-07	1.000000
PAH8+H	2.43959e-08	1.000000	1.50258e-07	1.000000
rad64	1.92943e-08	1.000000	1.18836e-07	1.000000
rad68syn	1.20123e-08	1.000000	7.39857e-08	1.000000
rad43	8.60713e-09	1.000000	5.30126e-08	1.000000
rad68anti	7.79056e-09	1.000000	4.79832e-08	1.000000
rad72	5.35934e-09	1.000000	3.30090e-08	1.000000

rad40syn	3.52157e-09	1.00000	2.16899e-08	1.00000
rad61	3.50342e-09	1.00000	2.15781e-08	1.00000
rad42	2.39318e-09	1.00000	1.47399e-08	1.00000
rad40anti	2.09783e-09	1.00000	1.29208e-08	1.00000
rad41	5.64325e-10	1.00000	3.47576e-09	1.00000
rad6	7.97424e-12	1.00000	4.91145e-11	1.00000
rad23	3.57697e-13	1.00000	2.20311e-12	1.00000
rad22	5.56519e-14	1.00000	3.42768e-13	1.00000
rad45	5.00911e-14	1.00000	3.08519e-13	1.00000
rad7	2.70289e-14	1.00000	1.66475e-13	1.00000
rad11	2.49424e-14	1.00000	1.53624e-13	1.00000
rad28	1.73284e-14	1.00000	1.06728e-13	1.00000
rad9	1.33505e-14	1.00000	8.22276e-14	1.00000
rad20	1.26283e-14	1.00000	7.77797e-14	1.00000
rad36	8.51426e-15	1.00000	5.24406e-14	1.00000
rad21	6.65178e-15	1.00000	4.09693e-14	1.00000
rad18	5.81036e-15	1.00000	3.57869e-14	1.00000
rad13	1.40347e-15	1.00000	8.64421e-15	1.00000
rad15	6.73091e-16	1.00000	4.14566e-15	1.00000
rad26	4.57086e-16	1.00000	2.81526e-15	1.00000
rad10	2.39951e-16	1.00000	1.47789e-15	1.00000
rad24	1.70134e-16	1.00000	1.04788e-15	1.00000
rad2	1.05776e-16	1.00000	6.51491e-16	1.00000
rad12	4.26945e-17	1.00000	2.62962e-16	1.00000
rad33	3.32919e-17	1.00000	2.05050e-16	1.00000
rad1	2.67113e-17	1.00000	1.64519e-16	1.00000
rad8	1.74118e-17	1.00000	1.07242e-16	1.00000
rad25	1.29129e-17	1.00000	7.95327e-17	1.00000
rad3	8.45032e-18	1.00000	5.20468e-17	1.00000
rad4	5.36509e-18	1.00000	3.30444e-17	1.00000
rad14	5.21561e-19	1.00000	3.21237e-18	1.00000
rad47	2.44663e-19	1.00000	1.50692e-18	1.00000
rad5	1.26240e-19	1.00000	7.77532e-19	1.00000
rad27	9.07069e-20	1.00000	5.58677e-19	1.00000

0.100000000E-04 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.47588e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866428	0.866428	0.00000	0.00000
Indene+H	0.0943885	0.960816	0.706650	0.706650
PhCH2CCH+H	0.0189358	0.979752	0.141765	0.848415
Ph+Allene	0.0101088	0.989861	0.0756807	0.924096
PhCHCCH2+H	0.00579099	0.995652	0.0433549	0.967451
PAH9+H	0.000765251	0.996417	0.00572913	0.973180
PhCCH+CH3	0.000550354	0.996968	0.00412028	0.977300
PAH3+H	0.000526246	0.997494	0.00393980	0.981240
rad19anti	0.000486607	0.997981	0.00364303	0.984883
rad38	0.000411538	0.998392	0.00308103	0.987964
rad30	0.000378289	0.998770	0.00283210	0.990796
PAH7+H	0.000350388	0.999121	0.00262322	0.993419
Ph+MeAc	0.000164748	0.999286	0.00123340	0.994653
rad35	0.000155515	0.999441	0.00116428	0.995817
rad46	0.000120109	0.999561	0.000899212	0.996716
rad50	9.58270e-05	0.999657	0.000717420	0.997434
rad39	7.87039e-05	0.999736	0.000589225	0.998023
rad59	4.92026e-05	0.999785	0.000368361	0.998391
rad60syn	4.01110e-05	0.999825	0.000300295	0.998691
PhCCCH3+H	3.61306e-05	0.999861	0.000270495	0.998962
rad51	2.92772e-05	0.999890	0.000219187	0.999181
rad60anti	2.75040e-05	0.999918	0.000205912	0.999387
rad67	2.43946e-05	0.999942	0.000182633	0.999570
rad19syn	1.17085e-05	0.999954	8.76566e-05	0.999657
rad52	8.84586e-06	0.999963	6.62255e-05	0.999723
PAH10+CH3	7.72771e-06	0.999971	5.78543e-05	0.999781
PhcycC3H3_A+H	7.44556e-06	0.999978	5.57420e-05	0.999837
rad58	5.03691e-06	0.999983	3.77093e-05	0.999875
rad54	4.34710e-06	0.999987	3.25450e-05	0.999907
rad37	3.43690e-06	0.999991	2.57307e-05	0.999933
PAH1+H	2.74924e-06	0.999994	2.05825e-05	0.999954
rad70	2.09354e-06	0.999996	1.56735e-05	0.999969
rad71	1.06961e-06	0.999997	8.00777e-06	0.999977
rad65	8.19688e-07	0.999998	6.13669e-06	0.999983
rad73	7.43910e-07	0.999998	5.56936e-06	0.999989
rad34	5.52321e-07	0.999999	4.13501e-06	0.999993
rad55	3.53324e-07	0.999999	2.64520e-06	0.999996

PAH8+H	1.14510e-07	0.999999	8.57294e-07	0.999997
rad53	9.72438e-08	0.999999	7.28027e-07	0.999997
rad56	9.21216e-08	1.000000	6.89678e-07	0.999998
rad62	6.00485e-08	1.000000	4.49560e-07	0.999999
rad64	5.57952e-08	1.000000	4.17717e-07	0.999999
rad72	4.29766e-08	1.000000	3.21749e-07	0.999999
rad68syn	4.11172e-08	1.000000	3.07828e-07	1.000000
rad68anti	2.65281e-08	1.000000	1.98605e-07	1.000000
rad43	2.20258e-08	1.000000	1.64898e-07	1.000000
rad61	1.54174e-08	1.000000	1.15424e-07	1.000000
rad40syn	1.44056e-08	1.000000	1.07849e-07	1.000000
rad40anti	9.08224e-09	1.000000	6.79952e-08	1.000000
rad42	4.93493e-09	1.000000	3.69459e-08	1.000000
rad41	1.99345e-09	1.000000	1.49241e-08	1.000000
rad6	9.90406e-13	1.000000	7.41478e-12	1.000000
rad23	1.79200e-13	1.000000	1.34160e-12	1.000000
rad45	1.66536e-14	1.000000	1.24679e-13	1.000000
rad22	1.52720e-14	1.000000	1.14336e-13	1.000000
rad9	6.78971e-15	1.000000	5.08319e-14	1.000000
rad11	5.37279e-15	1.000000	4.02240e-14	1.000000
rad20	5.29552e-15	1.000000	3.96455e-14	1.000000
rad7	4.21579e-15	1.000000	3.15620e-14	1.000000
rad28	3.29277e-15	1.000000	2.46517e-14	1.000000
rad36	2.91161e-15	1.000000	2.17981e-14	1.000000
rad21	2.72287e-15	1.000000	2.03851e-14	1.000000
rad18	1.62503e-15	1.000000	1.21659e-14	1.000000
rad15	3.62776e-16	1.000000	2.71596e-15	1.000000
rad13	3.15031e-16	1.000000	2.35852e-15	1.000000
rad24	9.49359e-17	1.000000	7.10748e-16	1.000000
rad26	6.45678e-17	1.000000	4.83394e-16	1.000000
rad12	3.72963e-17	1.000000	2.79223e-16	1.000000
rad10	2.41085e-17	1.000000	1.80491e-16	1.000000
rad8	2.00223e-17	1.000000	1.49899e-16	1.000000
rad33	1.02785e-17	1.000000	7.69508e-17	1.000000
rad2	9.84216e-18	1.000000	7.36844e-17	1.000000
rad25	5.51560e-18	1.000000	4.12931e-17	1.000000
rad1	2.62603e-18	1.000000	1.96601e-17	1.000000
rad3	1.46294e-18	1.000000	1.09524e-17	1.000000
rad4	9.35018e-19	1.000000	7.00012e-18	1.000000
rad47	6.72667e-19	1.000000	5.03600e-18	1.000000
rad5	1.87299e-19	1.000000	1.40224e-18	1.000000
rad14	1.43912e-19	1.000000	1.07741e-18	1.000000
rad27	2.36916e-20	1.000000	1.77370e-19	1.000000

0.100000000E-04 Pa, 2250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	4.00875e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.878204	0.878204	0.00000	0.00000
Indene+H	0.0703003	0.948504	0.577195	0.577195
PhCH2CCH+H	0.0277459	0.976250	0.227806	0.805001
Ph+Allene	0.0105974	0.986848	0.0870088	0.892010
PhCHCCH2+H	0.00765656	0.994504	0.0628636	0.954873
PAH9+H	0.000941856	0.995446	0.00773304	0.962606
PAH3+H	0.000857236	0.996303	0.00703827	0.969645
rad19anti	0.000629228	0.996932	0.00516623	0.974811
rad38	0.000525523	0.997458	0.00431476	0.979126
PAH7+H	0.000454502	0.997913	0.00373165	0.982857
rad30	0.000417263	0.998330	0.00342591	0.986283
PhCCH+CH3	0.000383697	0.998713	0.00315031	0.989434
rad35	0.000200865	0.998914	0.00164918	0.991083
Ph+MeAc	0.000197882	0.999112	0.00162470	0.992707
rad50	0.000170940	0.999283	0.00140349	0.994111
rad46	0.000166540	0.999450	0.00136737	0.995478
rad39	0.000118806	0.999568	0.000975445	0.996454
rad59	7.57691e-05	0.999644	0.000622096	0.997076
rad51	6.22686e-05	0.999707	0.000511251	0.997587
rad60syn	5.44510e-05	0.999761	0.000447066	0.998034
PhCCCH3+H	5.15901e-05	0.999813	0.000423577	0.998458
rad67	4.61782e-05	0.999859	0.000379142	0.998837
rad60anti	3.79865e-05	0.999897	0.000311885	0.999149
PAH10+CH3	1.71933e-05	0.999914	0.000141164	0.999290
rad52	1.70844e-05	0.999931	0.000140270	0.999430
rad19syn	1.63932e-05	0.999947	0.000134595	0.999565
PhcycC3H3_A+H	1.10275e-05	0.999958	9.05407e-05	0.999655
rad58	1.00660e-05	0.999969	8.26458e-05	0.999738

PAH1+H	5.96728e-06	0.999974	4.89939e-05	0.999787
rad37	5.72356e-06	0.999980	4.69928e-05	0.999834
rad54	5.39698e-06	0.999986	4.43115e-05	0.999878
rad71	3.95691e-06	0.999990	3.24879e-05	0.999911
rad70	3.69403e-06	0.999993	3.03296e-05	0.999941
rad73	2.41459e-06	0.999996	1.98248e-05	0.999961
rad65	1.68525e-06	0.999997	1.38367e-05	0.999975
rad34	1.08371e-06	0.999998	8.89771e-06	0.999984
rad55	4.74067e-07	0.999999	3.89229e-06	0.999988
PAH8+H	3.91946e-07	0.999999	3.21804e-06	0.999991
rad72	2.09318e-07	1.000000	1.71859e-06	0.999992
rad56	1.86168e-07	1.000000	1.52852e-06	0.999994
rad53	1.73183e-07	1.000000	1.42191e-06	0.999995
rad64	1.33616e-07	1.000000	1.09704e-06	0.999997
rad68syn	1.10265e-07	1.000000	9.05322e-07	0.999997
rad62	9.48259e-08	1.000000	7.78561e-07	0.999998
rad68anti	7.08807e-08	1.000000	5.81961e-07	0.999999
rad43	4.82400e-08	1.000000	3.96071e-07	0.999999
rad61	4.62524e-08	1.000000	3.79752e-07	1.000000
rad40syn	4.43238e-08	1.000000	3.63917e-07	1.000000
rad40anti	2.91751e-08	1.000000	2.39540e-07	1.000000
rad42	1.00367e-08	1.000000	8.24055e-08	1.000000
rad41	5.35211e-09	1.000000	4.39431e-08	1.000000
rad6	1.25074e-13	1.000000	1.02691e-12	1.000000
rad23	4.85212e-14	1.000000	3.98380e-13	1.000000
rad45	6.43643e-15	1.000000	5.28458e-14	1.000000
rad22	3.96293e-15	1.000000	3.25373e-14	1.000000
rad9	3.52545e-15	1.000000	2.89454e-14	1.000000
rad20	2.60557e-15	1.000000	2.13928e-14	1.000000
rad11	1.62858e-15	1.000000	1.33713e-14	1.000000
rad21	1.30011e-15	1.000000	1.06745e-14	1.000000
rad36	1.15202e-15	1.000000	9.45854e-15	1.000000
rad7	9.44221e-16	1.000000	7.75246e-15	1.000000
rad18	6.17423e-16	1.000000	5.06931e-15	1.000000
rad28	5.08049e-16	1.000000	4.17130e-15	1.000000
rad15	2.11008e-16	1.000000	1.73247e-15	1.000000
rad13	8.56538e-17	1.000000	7.03254e-16	1.000000
rad24	5.70002e-17	1.000000	4.67996e-16	1.000000
rad12	3.05352e-17	1.000000	2.50707e-16	1.000000
rad26	2.25054e-17	1.000000	1.84779e-16	1.000000
rad8	2.16858e-17	1.000000	1.78050e-16	1.000000
rad10	7.20909e-18	1.000000	5.91897e-17	1.000000
rad33	3.63728e-18	1.000000	2.98636e-17	1.000000
rad25	2.84538e-18	1.000000	2.33618e-17	1.000000
rad2	1.48538e-18	1.000000	1.21956e-17	1.000000
rad47	1.41374e-18	1.000000	1.16074e-17	1.000000
rad1	4.35915e-19	1.000000	3.57905e-18	1.000000
rad3	3.18717e-19	1.000000	2.61681e-18	1.000000
rad5	2.08792e-19	1.000000	1.71427e-18	1.000000
rad4	2.03013e-19	1.000000	1.66682e-18	1.000000
rad14	5.33284e-20	1.000000	4.37849e-19	1.000000
rad27	1.32553e-20	1.000000	1.08832e-19	1.000000

0.100000000E-04 Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.32896e-13 (1.00)	6.40311e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.879843	0.879843	0.00000	0.00000
Indene+H	0.0541638	0.934007	0.450777	0.450777
PhCH2CCH+H	0.0379681	0.971975	0.315989	0.766766
Ph+Allene	0.0112444	0.983219	0.0935810	0.860347
PhCHCCH2+H	0.00999485	0.993214	0.0831818	0.943529
PAH3+H	0.00124356	0.994458	0.0103495	0.953878
PAH9+H	0.00106545	0.995523	0.00886715	0.962745
rad19anti	0.000731028	0.996254	0.00608396	0.968829
rad38	0.000614393	0.996869	0.00511327	0.973943
PAH7+H	0.000586817	0.997455	0.00488376	0.978826
rad30	0.000442203	0.997898	0.00368022	0.982507
PhCCH+CH3	0.000309130	0.998207	0.00257273	0.985079
rad50	0.000261677	0.998468	0.00217780	0.987257
Ph+MeAc	0.000256973	0.998725	0.00213865	0.989396
rad35	0.000242192	0.998968	0.00201564	0.991411
rad46	0.000207878	0.999175	0.00173006	0.993142
rad39	0.000175772	0.999351	0.00146285	0.994604
rad51	0.000109649	0.999461	0.000912547	0.995517
rad59	0.000104825	0.999566	0.000872406	0.996389

rad67	7.34547e-05	0.999639	0.000611325	0.997001
PhCCCH3+H	7.22810e-05	0.999711	0.000601557	0.997602
rad60syn	6.81857e-05	0.999780	0.000567474	0.998170
rad60anti	4.82378e-05	0.999828	0.000401457	0.998571
PAH10+CH3	3.08998e-05	0.999859	0.000257163	0.998828
rad52	2.78077e-05	0.999887	0.000231429	0.999060
rad19syn	2.34810e-05	0.999910	0.000195420	0.999255
rad58	1.71635e-05	0.999927	0.000142842	0.999398
PhcycC3H3_A+H	1.49440e-05	0.999942	0.000124371	0.999522
PAH1+H	1.13017e-05	0.999953	9.40581e-05	0.999616
rad71	1.08628e-05	0.999964	9.04053e-05	0.999707
rad37	8.12868e-06	0.999972	6.76507e-05	0.999774
rad54	6.28002e-06	0.999979	5.22652e-05	0.999827
rad70	5.97099e-06	0.999985	4.96933e-05	0.999876
rad73	5.95726e-06	0.999991	4.95791e-05	0.999926
rad65	2.87595e-06	0.999994	2.39350e-05	0.999950
rad34	1.90624e-06	0.999995	1.58647e-05	0.999966
PAH8+H	1.06524e-06	0.999997	8.86540e-06	0.999975
rad72	7.14903e-07	0.999997	5.94976e-06	0.999981
rad55	5.87553e-07	0.999998	4.88989e-06	0.999986
rad56	3.21872e-07	0.999998	2.67877e-06	0.999988
rad64	2.70859e-07	0.999998	2.25419e-06	0.999990
rad53	2.70820e-07	0.999999	2.25389e-06	0.999993
rad68syn	2.47504e-07	0.999999	2.05985e-06	0.999995
rad68anti	1.58683e-07	0.999999	1.32064e-06	0.999996
rad62	1.55148e-07	0.999999	1.29122e-06	0.999997
rad40syn	1.10734e-07	0.999999	9.21579e-07	0.999998
rad61	1.05680e-07	0.999999	8.79519e-07	0.999999
rad43	8.79692e-08	1.000000	7.32121e-07	1.000000
rad40anti	7.53435e-08	1.000000	6.27044e-07	1.000000
rad42	1.97239e-08	1.000000	1.64152e-07	1.000000
rad41	1.13877e-08	1.000000	9.47734e-08	1.000000
rad6	2.26488e-14	1.000000	1.88494e-13	1.000000
rad23	1.48432e-14	1.000000	1.23532e-13	1.000000
rad45	2.79885e-15	1.000000	2.32933e-14	1.000000
rad9	1.87439e-15	1.000000	1.55995e-14	1.000000
rad20	1.43940e-15	1.000000	1.19794e-14	1.000000
rad22	1.35210e-15	1.000000	1.12529e-14	1.000000
rad21	6.94971e-16	1.000000	5.78387e-15	1.000000
rad11	6.25795e-16	1.000000	5.20816e-15	1.000000
rad36	5.10731e-16	1.000000	4.25054e-15	1.000000
rad18	2.77736e-16	1.000000	2.31145e-15	1.000000
rad7	2.64648e-16	1.000000	2.20252e-15	1.000000
rad15	1.25435e-16	1.000000	1.04393e-15	1.000000
rad28	1.20848e-16	1.000000	1.00575e-15	1.000000
rad24	3.60418e-17	1.000000	2.99957e-16	1.000000
rad13	2.74548e-17	1.000000	2.28492e-16	1.000000
rad12	2.40046e-17	1.000000	1.99778e-16	1.000000
rad8	2.25267e-17	1.000000	1.87478e-16	1.000000
rad26	1.25006e-17	1.000000	1.04036e-16	1.000000
rad10	4.03271e-18	1.000000	3.35621e-17	1.000000
rad47	2.44566e-18	1.000000	2.03539e-17	1.000000
rad25	1.71221e-18	1.000000	1.42498e-17	1.000000
rad33	1.46760e-18	1.000000	1.22141e-17	1.000000
rad2	4.56383e-19	1.000000	3.79824e-18	1.000000
rad5	2.16558e-19	1.000000	1.80229e-18	1.000000
rad1	1.54898e-19	1.000000	1.28914e-18	1.000000
rad3	8.70980e-20	1.000000	7.24871e-19	1.000000
rad4	5.46543e-20	1.000000	4.54859e-19	1.000000
rad14	2.68051e-20	1.000000	2.23085e-19	1.000000
rad27	1.07389e-20	1.000000	8.93744e-20	1.000000

0.100000000E-04 Pa, 2750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.05113e-13 (1.00)	1.00487e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.875189	0.875189	0.00000	0.00000
PhCH2CCH+H	0.0492371	0.924426	0.394492	0.394492
Indene+H	0.0427171	0.967143	0.342254	0.736746
PhCHCCH2+H	0.0126523	0.979795	0.101371	0.838117
Ph+Allene	0.0121360	0.991931	0.0972347	0.935352
PAH3+H	0.00165412	0.993586	0.0132530	0.948605
PAH9+H	0.00112924	0.994715	0.00904761	0.957652
rad19anti	0.000790044	0.995505	0.00632991	0.963982
PAH7+H	0.000729333	0.996234	0.00584349	0.969826
rad38	0.000670521	0.996905	0.00537228	0.975198

rad30	0.000454283	0.997359	0.00363976	0.978838
rad50	0.000356822	0.997716	0.00285889	0.981697
Ph+MeAc	0.000331297	0.998047	0.00265438	0.984351
PhCCH+CH3	0.000293338	0.998340	0.00235025	0.986701
rad35	0.000276886	0.998617	0.00221844	0.988920
rad39	0.000242689	0.998860	0.00194445	0.990864
rad46	0.000239377	0.999099	0.00191791	0.992782
rad51	0.000167552	0.999267	0.00134245	0.994125
rad59	0.000133898	0.999401	0.00107280	0.995197
rad67	0.000103303	0.999504	0.000827674	0.996025
PhCCCH3+H	9.47597e-05	0.999599	0.000759224	0.996784
rad60syn	8.03400e-05	0.999679	0.000643692	0.997428
rad60anti	5.74980e-05	0.999737	0.000460680	0.997889
PAH10+CH3	4.75540e-05	0.999784	0.000381007	0.998270
rad52	3.97965e-05	0.999824	0.000318854	0.998588
rad19syn	3.43481e-05	0.999858	0.000275200	0.998864
rad58	2.60271e-05	0.999885	0.000208532	0.999072
rad71	2.39120e-05	0.999908	0.000191585	0.999264
PhcycC3H3_A+H	1.91124e-05	0.999928	0.000153131	0.999417
PAH1+H	1.89313e-05	0.999946	0.000151679	0.999569
rad73	1.19963e-05	0.999958	9.61159e-05	0.999665
rad37	1.02458e-05	0.999969	8.20902e-05	0.999747
rad70	8.97456e-06	0.999978	7.19051e-05	0.999819
rad54	7.04852e-06	0.999985	5.64734e-05	0.999875
rad65	4.27356e-06	0.999989	3.42402e-05	0.999909
rad34	3.06724e-06	0.999992	2.45750e-05	0.999934
PAH8+H	2.42508e-06	0.999995	1.94299e-05	0.999953
rad72	1.88022e-06	0.999996	1.50645e-05	0.999968
rad55	6.94535e-07	0.999997	5.56468e-06	0.999974
rad56	5.00306e-07	0.999998	4.00850e-06	0.999978
rad68syn	4.83458e-07	0.999998	3.87351e-06	0.999982
rad64	4.76899e-07	0.999999	3.82096e-06	0.999986
rad53	3.88200e-07	0.999999	3.11030e-06	0.999989
rad68anti	3.09361e-07	0.999999	2.47863e-06	0.999991
rad62	2.47711e-07	0.999999	1.98468e-06	0.999993
rad40syn	2.35491e-07	1.000000	1.88678e-06	0.999995
rad61	1.98411e-07	1.000000	1.58969e-06	0.999997
rad40anti	1.64464e-07	1.000000	1.31770e-06	0.999998
rad43	1.38326e-07	1.000000	1.10828e-06	0.999999
rad42	3.59374e-08	1.000000	2.87934e-07	1.000000
rad41	2.03340e-08	1.000000	1.62918e-07	1.000000
rad23	5.45461e-15	1.000000	4.37028e-14	1.000000
rad6	5.33890e-15	1.000000	4.27758e-14	1.000000
rad45	1.33227e-15	1.000000	1.06743e-14	1.000000
rad9	1.02473e-15	1.000000	8.21027e-15	1.000000
rad20	8.68783e-16	1.000000	6.96078e-15	1.000000
rad22	5.53936e-16	1.000000	4.43819e-15	1.000000
rad21	4.05053e-16	1.000000	3.24532e-15	1.000000
rad11	2.91950e-16	1.000000	2.33913e-15	1.000000
rad36	2.46981e-16	1.000000	1.97883e-15	1.000000
rad18	1.40097e-16	1.000000	1.12247e-15	1.000000
rad7	8.87372e-17	1.000000	7.10971e-16	1.000000
rad15	7.56500e-17	1.000000	6.06115e-16	1.000000
rad28	4.36118e-17	1.000000	3.49422e-16	1.000000
rad24	2.36701e-17	1.000000	1.89647e-16	1.000000
rad8	2.27048e-17	1.000000	1.81913e-16	1.000000
rad12	1.84640e-17	1.000000	1.47935e-16	1.000000
rad13	1.02992e-17	1.000000	8.25179e-17	1.000000
rad26	7.74918e-18	1.000000	6.20872e-17	1.000000
rad47	3.65965e-18	1.000000	2.93215e-17	1.000000
rad10	2.66230e-18	1.000000	2.13306e-17	1.000000
rad25	1.16293e-18	1.000000	9.31748e-18	1.000000
rad33	6.71473e-19	1.000000	5.37991e-18	1.000000
rad2	2.32645e-19	1.000000	1.86397e-18	1.000000
rad5	2.15598e-19	1.000000	1.72739e-18	1.000000
rad1	9.07949e-20	1.000000	7.27457e-19	1.000000
rad3	2.95594e-20	1.000000	2.36833e-19	1.000000
rad4	1.80904e-20	1.000000	1.44942e-19	1.000000
rad14	1.77542e-20	1.000000	1.42248e-19	1.000000
rad27	9.32033e-21	1.000000	7.46754e-20	1.000000

0.100000000E-04 Pa, 3000.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.15309e-12	(1.00)	1.53862e-13	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.866566	0.866566	0.00000	0.00000

PhCH2CCH+H	0.0611725	0.927738	0.458447	0.458447
Indene+H	0.0342672	0.962006	0.256810	0.715257
PhCHCCH2+H	0.0154790	0.977485	0.116005	0.831262
Ph+Allene	0.0132660	0.990751	0.0994201	0.930682
PAH3+H	0.00205938	0.992810	0.0154337	0.946116
PAH9+H	0.00113813	0.993948	0.00852950	0.954645
PAH7+H	0.000866135	0.994814	0.00649110	0.961136
rad19anti	0.000812999	0.995627	0.00609288	0.967229
rad38	0.000693215	0.996321	0.00519518	0.972424
rad30	0.000455427	0.996776	0.00341312	0.975838
rad50	0.000445147	0.997221	0.00333608	0.979174
Ph+MeAc	0.000411378	0.997633	0.00308300	0.982257
PhCCH+CH3	0.000319072	0.997952	0.00239123	0.984648
rad39	0.000311351	0.998263	0.00233337	0.986981
rad35	0.000303822	0.998567	0.00227694	0.989258
rad46	0.000258929	0.998826	0.00194050	0.991199
rad51	0.000229661	0.999055	0.00172116	0.992920
rad59	0.000160966	0.999216	0.00120633	0.994126
rad67	0.000132859	0.999349	0.000995686	0.995122
PhCCCH3+H	0.000117527	0.999467	0.000880786	0.996003
rad60syn	9.03378e-05	0.999557	0.000677021	0.996680
PAH10+CH3	6.53522e-05	0.999622	0.000489771	0.997169
rad60anti	6.52879e-05	0.999688	0.000489289	0.997659
rad52	5.15998e-05	0.999739	0.000386706	0.998045
rad19syn	5.01057e-05	0.999789	0.000375508	0.998421
rad71	4.45158e-05	0.999834	0.000333616	0.998755
rad58	3.61220e-05	0.999870	0.000270710	0.999025
PAH1+H	2.86271e-05	0.999899	0.000214541	0.999240
PhcycC3H3_A+H	2.34369e-05	0.999922	0.000175644	0.999415
rad73	2.07080e-05	0.999943	0.000155192	0.999571
rad70	1.26564e-05	0.999955	9.48509e-05	0.999666
rad37	1.18404e-05	0.999967	8.87361e-05	0.999754
rad54	7.74183e-06	0.999975	5.80198e-05	0.999812
rad65	5.71876e-06	0.999981	4.28583e-05	0.999855
PAH8+H	4.80152e-06	0.999986	3.59842e-05	0.999891
rad34	4.57469e-06	0.999990	3.42843e-05	0.999925
rad72	4.05904e-06	0.999994	3.04198e-05	0.999956
rad68syn	8.44302e-07	0.999995	6.32747e-06	0.999962
rad55	7.96394e-07	0.999996	5.96844e-06	0.999968
rad64	7.49015e-07	0.999997	5.61336e-06	0.999974
rad56	7.20451e-07	0.999997	5.39929e-06	0.999979
rad68anti	5.39463e-07	0.999998	4.04291e-06	0.999983
rad53	5.23143e-07	0.999998	3.92061e-06	0.999987
rad40syn	4.40707e-07	0.999999	3.30280e-06	0.999990
rad62	3.72784e-07	0.999999	2.79376e-06	0.999993
rad61	3.22478e-07	0.999999	2.41676e-06	0.999996
rad40anti	3.14359e-07	1.000000	2.35591e-06	0.999998
rad43	1.94896e-07	1.000000	1.46061e-06	0.999999
rad42	5.98145e-08	1.000000	4.48269e-07	1.000000
rad41	3.19484e-08	1.000000	2.39432e-07	1.000000
rad23	2.25673e-15	1.000000	1.69127e-14	1.000000
rad6	1.54307e-15	1.000000	1.15643e-14	1.000000
rad45	6.79823e-16	1.000000	5.09481e-15	1.000000
rad9	5.78134e-16	1.000000	4.33273e-15	1.000000
rad20	5.61879e-16	1.000000	4.21090e-15	1.000000
rad22	2.56775e-16	1.000000	1.92436e-15	1.000000
rad21	2.52565e-16	1.000000	1.89281e-15	1.000000
rad11	1.59313e-16	1.000000	1.19394e-15	1.000000
rad36	1.27648e-16	1.000000	9.56638e-16	1.000000
rad18	7.69597e-17	1.000000	5.76761e-16	1.000000
rad15	4.64724e-17	1.000000	3.48279e-16	1.000000
rad7	3.48741e-17	1.000000	2.61358e-16	1.000000
rad8	2.23533e-17	1.000000	1.67523e-16	1.000000
rad28	2.05652e-17	1.000000	1.54122e-16	1.000000
rad24	1.60028e-17	1.000000	1.19931e-16	1.000000
rad12	1.40784e-17	1.000000	1.05508e-16	1.000000
rad26	4.93205e-18	1.000000	3.69624e-17	1.000000
rad47	4.90428e-18	1.000000	3.67543e-17	1.000000
rad13	4.47287e-18	1.000000	3.35211e-17	1.000000
rad10	1.80885e-18	1.000000	1.35561e-17	1.000000
rad25	8.60189e-19	1.000000	6.44654e-18	1.000000
rad33	3.44368e-19	1.000000	2.58081e-18	1.000000
rad5	2.09261e-19	1.000000	1.56827e-18	1.000000
rad2	1.42914e-19	1.000000	1.07104e-18	1.000000
rad1	6.31232e-20	1.000000	4.73066e-19	1.000000
rad14	1.40237e-20	1.000000	1.05098e-19	1.000000
rad3	1.21880e-20	1.000000	9.13405e-20	1.000000
rad27	8.01837e-21	1.000000	6.00923e-20	1.000000
rad4	7.24035e-21	1.000000	5.42616e-20	1.000000

0.100000000E-04 Pa, 3250.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.58309e-12 (1.00)		2.28795e-13 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.855476	0.855476	0.00000	0.00000
PhCH2CCH+H	0.0734301	0.928906	0.508082	0.508082
Indene+H	0.0278643	0.956770	0.192800	0.700882
PhCHCCH2+H	0.0183610	0.975131	0.127045	0.827927
Ph+Allene	0.0145940	0.989725	0.100980	0.928907
PAH3+H	0.00243645	0.992162	0.0168585	0.945765
PAH9+H	0.00110339	0.993265	0.00763468	0.953400
PAH7+H	0.000986571	0.994252	0.00682634	0.960227
rad19anti	0.000808911	0.995061	0.00559707	0.965824
rad38	0.000686670	0.995747	0.00475125	0.970575
rad50	0.000518179	0.996266	0.00358542	0.974160
Ph+MeAc	0.000489465	0.996755	0.00338674	0.977547
rad30	0.000447972	0.997203	0.00309964	0.980647
PhCCH+CH3	0.000378211	0.997581	0.00261694	0.983264
rad39	0.000374434	0.997956	0.00259081	0.985854
rad35	0.000323023	0.998279	0.00223508	0.988089
rad51	0.000289245	0.998568	0.00200136	0.990091
rad46	0.000266714	0.998835	0.00184546	0.991936
rad59	0.000184695	0.999019	0.00127795	0.993214
rad67	0.000159865	0.999179	0.00110614	0.994320
PhCCCH3+H	0.000140367	0.999320	0.000971235	0.995292
rad60syn	9.79791e-05	0.999418	0.000677943	0.995959
PAH10+CH3	8.26142e-05	0.999500	0.000571630	0.996541
rad71	7.28074e-05	0.999573	0.000503773	0.997045
rad60anti	7.14060e-05	0.999644	0.000494077	0.997539
rad19syn	7.13406e-05	0.999716	0.000493624	0.998033
rad52	6.19533e-05	0.999778	0.000428671	0.998461
rad58	4.68388e-05	0.999825	0.000324090	0.998785
PAH1+H	3.98744e-05	0.999864	0.000275902	0.999061
rad73	3.17350e-05	0.999896	0.000219583	0.999281
PhcycC3H3_A+H	2.77967e-05	0.999924	0.000192333	0.999473
rad70	1.68825e-05	0.999941	0.000116814	0.999590
rad37	1.28499e-05	0.999954	8.89115e-05	0.999679
PAH8+H	8.50457e-06	0.999962	5.88453e-05	0.999738
rad54	8.38235e-06	0.999971	5.79997e-05	0.999796
rad72	7.52648e-06	0.999978	5.20777e-05	0.999848
rad65	7.06074e-06	0.999985	4.88551e-05	0.999897
rad34	6.39568e-06	0.999992	4.42534e-05	0.999941
rad68syn	1.34606e-06	0.999993	9.31375e-06	0.999950
rad64	1.07438e-06	0.999994	7.43389e-06	0.999958
rad56	9.79690e-07	0.999995	6.77873e-06	0.999965
rad55	8.93999e-07	0.999996	6.18581e-06	0.999971
rad68anti	8.59058e-07	0.999997	5.94405e-06	0.999977
rad40syn	7.44327e-07	0.999997	5.15020e-06	0.999982
rad53	6.73265e-07	0.999998	4.65850e-06	0.999986
rad40anti	5.40357e-07	0.999999	3.73887e-06	0.999990
rad62	5.25220e-07	0.999999	3.63414e-06	0.999994
rad61	4.70536e-07	1.000000	3.25576e-06	0.999997
rad43	2.53715e-07	1.000000	1.75552e-06	0.999999
rad42	9.14458e-08	1.000000	6.32737e-07	0.999999
rad41	4.57450e-08	1.000000	3.16522e-07	1.000000
rad23	1.01591e-15	1.000000	7.02933e-15	1.000000
rad6	5.32506e-16	1.000000	3.68455e-15	1.000000
rad20	3.83869e-16	1.000000	2.65609e-15	1.000000
rad45	3.66278e-16	1.000000	2.53437e-15	1.000000
rad9	3.37288e-16	1.000000	2.33379e-15	1.000000
rad21	1.66173e-16	1.000000	1.14980e-15	1.000000
rad22	1.30771e-16	1.000000	9.04838e-16	1.000000
rad11	9.80859e-17	1.000000	6.78682e-16	1.000000
rad36	6.94804e-17	1.000000	4.80753e-16	1.000000
rad18	4.51591e-17	1.000000	3.12467e-16	1.000000
rad15	2.91826e-17	1.000000	2.01922e-16	1.000000
rad8	2.15817e-17	1.000000	1.49330e-16	1.000000
rad7	1.57411e-17	1.000000	1.08917e-16	1.000000
rad28	1.13099e-17	1.000000	7.82561e-17	1.000000
rad24	1.10778e-17	1.000000	7.66503e-17	1.000000
rad12	1.07284e-17	1.000000	7.42324e-17	1.000000
rad47	6.03541e-18	1.000000	4.17606e-17	1.000000
rad26	3.17920e-18	1.000000	2.19977e-17	1.000000
rad13	2.21089e-18	1.000000	1.52977e-17	1.000000
rad10	1.23664e-18	1.000000	8.55664e-18	1.000000
rad25	6.72544e-19	1.000000	4.65351e-18	1.000000

rad5	2.00894e-19	1.00000	1.39004e-18	1.000000
rad33	1.94932e-19	1.00000	1.34878e-18	1.000000
rad2	9.37040e-20	1.00000	6.48362e-19	1.000000
rad1	4.62815e-20	1.00000	3.20234e-19	1.000000
rad14	1.20218e-20	1.00000	8.31820e-20	1.000000
rad27	6.78839e-21	1.00000	4.69707e-20	1.000000
rad3	5.91479e-21	1.00000	4.09260e-20	1.000000
rad4	3.41722e-21	1.00000	2.36446e-20	1.000000

0.100000000E-04 Pa, 3500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.10046e-12 (1.00)	3.29923e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.842928	0.842928	0.00000	0.00000
PhCH2CCH+H	0.0857241	0.928652	0.545762	0.545762
Indene+H	0.0229287	0.951581	0.145976	0.691738
PhCHCCH2+H	0.0212218	0.972803	0.135108	0.826846
Ph+Allene	0.0160719	0.988874	0.102322	0.929168
PAH3+H	0.00277080	0.991645	0.0176403	0.946808
PAH7+H	0.00108547	0.992731	0.00691065	0.953719
PAH9+H	0.00103824	0.993769	0.00660998	0.960329
rad19anti	0.000786012	0.994555	0.00500415	0.965333
rad38	0.000657575	0.995213	0.00418645	0.969520
rad50	0.000571322	0.995784	0.00363732	0.973157
Ph+MeAc	0.000559758	0.996344	0.00356370	0.976721
PhCCH+CH3	0.000466753	0.996810	0.00297158	0.979692
rad30	0.000434295	0.997245	0.00276494	0.982457
rad39	0.000426787	0.997672	0.00271714	0.985174
rad51	0.000340822	0.998012	0.00216985	0.987344
rad35	0.000335221	0.998348	0.00213419	0.989478
rad46	0.000264413	0.998612	0.00168339	0.991162
rad59	0.000204435	0.998816	0.00130154	0.992463
rad67	0.000182834	0.998999	0.00116401	0.993627
PhCCCH3+H	0.000163685	0.999163	0.00104210	0.994669
rad71	0.000107601	0.999271	0.000685042	0.995354
rad60syn	0.000103349	0.999374	0.000657969	0.996012
PAH10+CH3	9.81181e-05	0.999472	0.000624669	0.996637
rad19syn	9.79725e-05	0.999570	0.000623742	0.997261
rad60anti	7.58697e-05	0.999646	0.000483025	0.997744
rad52	7.00217e-05	0.999716	0.000445793	0.998190
rad58	5.76196e-05	0.999773	0.000366835	0.998556
PAH1+H	5.20523e-05	0.999826	0.000331391	0.998888
rad73	4.43107e-05	0.999870	0.000282104	0.999170
PhcycC3H3_A+H	3.20633e-05	0.999902	0.000204131	0.999374
rad70	2.14708e-05	0.999923	0.000136694	0.999511
PAH8+H	1.37725e-05	0.999937	8.76827e-05	0.999598
rad37	1.33235e-05	0.999950	8.48243e-05	0.999683
rad72	1.23923e-05	0.999963	7.88958e-05	0.999762
rad54	8.98058e-06	0.999972	5.71749e-05	0.999819
rad34	8.46717e-06	0.999980	5.39063e-05	0.999873
rad65	8.19015e-06	0.999988	5.21426e-05	0.999925
rad68syn	1.99232e-06	0.999990	1.26841e-05	0.999938
rad64	1.43496e-06	0.999992	9.13568e-06	0.999947
rad56	1.27412e-06	0.999993	8.11171e-06	0.999955
rad68anti	1.27030e-06	0.999994	8.08736e-06	0.999963
rad40syn	1.15716e-06	0.999996	7.36708e-06	0.999971
rad55	9.87613e-07	0.999997	6.28764e-06	0.999977
rad40anti	8.52741e-07	0.999997	5.42898e-06	0.999982
rad53	8.35966e-07	0.999998	5.32218e-06	0.999988
rad62	6.97360e-07	0.999999	4.43975e-06	0.999992
rad61	6.32568e-07	1.000000	4.02725e-06	0.999996
rad43	3.12012e-07	1.000000	1.98643e-06	0.999998
rad42	1.30122e-07	1.000000	8.28424e-07	0.999999
rad41	6.11800e-08	1.000000	3.89503e-07	0.999999
rad23	4.88742e-16	1.000000	3.11158e-15	0.999999
rad20	2.74120e-16	1.000000	1.74519e-15	0.999999
rad6	2.14822e-16	1.000000	1.36766e-15	0.999999
rad45	2.06148e-16	1.000000	1.31244e-15	0.999999
rad9	2.03548e-16	1.000000	1.29589e-15	0.999999
rad21	1.14208e-16	1.000000	7.27102e-16	0.999999
rad22	7.18444e-17	1.000000	4.57398e-16	0.999999
rad11	6.60782e-17	1.000000	4.20687e-16	0.999999
rad36	3.94179e-17	1.000000	2.50954e-16	0.999999
rad18	2.79268e-17	1.000000	1.77796e-16	0.999999
rad8	2.04865e-17	1.000000	1.30427e-16	0.999999
rad15	1.87615e-17	1.000000	1.19445e-16	0.999999

rad12	8.20876e-18	1.00000	5.22611e-17	0.999999
rad7	7.97863e-18	1.00000	5.07959e-17	0.999999
rad24	7.82702e-18	1.00000	4.98307e-17	0.999999
rad47	6.94994e-18	1.00000	4.42468e-17	0.999999
rad28	6.78959e-18	1.00000	4.32259e-17	0.999999
rad26	2.07582e-18	1.00000	1.32157e-17	0.999999
rad13	1.21832e-18	1.00000	7.75641e-18	0.999999
rad10	8.52080e-19	1.00000	5.42477e-18	0.999999
rad25	5.44463e-19	1.00000	3.46632e-18	0.999999
rad5	1.92302e-19	1.00000	1.22429e-18	0.999999
rad33	1.19819e-19	1.00000	7.62829e-19	0.999999
rad2	6.40730e-20	1.00000	4.07921e-19	0.999999
rad1	3.47229e-20	1.00000	2.21064e-19	0.999999
rad14	1.06170e-20	1.00000	6.75934e-20	0.999999
rad27	5.69300e-21	1.00000	3.62445e-20	0.999999
rad3	3.26571e-21	1.00000	2.07912e-20	0.999999
rad4	1.84692e-21	1.00000	1.17584e-20	0.999999

0.100000000E-04 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.70978e-12 (1.00)	4.61708e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829614	0.829614	0.000000	0.000000
PhCH2CCH+H	0.0978316	0.927446	0.574175	0.574175
PhCHCCH2+H	0.0240141	0.951460	0.140939	0.715114
Indene+H	0.0190788	0.970538	0.111974	0.827088
Ph+Allene	0.0176550	0.988193	0.103617	0.930705
PAH3+H	0.00305565	0.991249	0.0179337	0.948639
PAH7+H	0.00116197	0.992411	0.00681959	0.955458
PAH9+H	0.000955042	0.993366	0.00560515	0.961063
rad19anti	0.000750872	0.994117	0.00440688	0.965470
Ph+MeAc	0.000618509	0.994736	0.00363004	0.969100
rad38	0.000613193	0.995349	0.00359884	0.972699
rad50	0.000603635	0.995952	0.00354274	0.976242
PhCCH+CH3	0.000581835	0.996534	0.00341479	0.979657
rad39	0.000465790	0.997000	0.00273373	0.982390
rad30	0.000416539	0.997417	0.00244467	0.984835
rad51	0.000380994	0.997798	0.00223606	0.987071
rad35	0.000341508	0.998139	0.00200431	0.989075
rad46	0.000254425	0.998393	0.00149322	0.990569
rad59	0.000220084	0.998614	0.00129168	0.991860
rad67	0.000201013	0.998815	0.00117975	0.993040
PhCCCH3+H	0.000187990	0.999003	0.00110331	0.994143
rad71	0.000146780	0.999149	0.000861455	0.995005
rad19syn	0.000129261	0.999279	0.000758633	0.995764
PAH10+CH3	0.000111172	0.999390	0.000652468	0.996416
rad60syn	0.000106707	0.999496	0.000626263	0.997042
rad60anti	7.88382e-05	0.999575	0.000462703	0.997505
rad52	7.54521e-05	0.999651	0.000442829	0.997948
rad58	6.80261e-05	0.999719	0.000399246	0.998347
PAH1+H	6.45813e-05	0.999783	0.000379028	0.998726
rad73	5.74878e-05	0.999841	0.000337397	0.999063
PhcycC3H3_A+H	3.61213e-05	0.999877	0.000211996	0.999275
rad70	2.62309e-05	0.999903	0.000153949	0.999429
PAH8+H	2.07420e-05	0.999924	0.000121735	0.999551
rad72	1.85748e-05	0.999943	0.000109016	0.999660
rad37	1.33636e-05	0.999956	7.84314e-05	0.999739
rad34	1.07116e-05	0.999967	6.28665e-05	0.999801
rad54	9.53969e-06	0.999976	5.59886e-05	0.999857
rad65	9.05125e-06	0.999985	5.31219e-05	0.999911
rad68syn	2.77520e-06	0.999988	1.62877e-05	0.999927
rad64	1.81236e-06	0.999990	1.06367e-05	0.999938
rad68anti	1.76807e-06	0.999992	1.03768e-05	0.999948
rad40syn	1.68193e-06	0.999993	9.87130e-06	0.999958
rad56	1.59874e-06	0.999995	9.38301e-06	0.999967
rad40anti	1.25564e-06	0.999996	7.36935e-06	0.999975
rad55	1.07703e-06	0.999997	6.32112e-06	0.999981
rad53	1.00840e-06	0.999998	5.91834e-06	0.999987
rad62	8.81786e-07	0.999999	5.17522e-06	0.999992
rad61	7.98455e-07	1.000000	4.68615e-06	0.999997
rad43	3.67979e-07	1.000000	2.15967e-06	0.999999
rad42	1.74775e-07	1.000000	1.02576e-06	1.000000
rad41	7.77074e-08	1.000000	4.56066e-07	1.000000
rad23	2.48397e-16	1.000000	1.45784e-15	1.000000
rad20	2.02983e-16	1.000000	1.19131e-15	1.000000
rad9	1.26927e-16	1.000000	7.44937e-16	1.000000

rad45	1.20285e-16	1.00000	7.05956e-16	1.00000
rad6	9.90732e-17	1.00000	5.81462e-16	1.00000
rad21	8.13804e-17	1.00000	4.77623e-16	1.00000
rad11	4.75768e-17	1.00000	2.79229e-16	1.00000
rad22	4.20267e-17	1.00000	2.46655e-16	1.00000
rad36	2.31376e-17	1.00000	1.35795e-16	1.00000
rad8	1.91572e-17	1.00000	1.12434e-16	1.00000
rad18	1.80283e-17	1.00000	1.05808e-16	1.00000
rad15	1.23480e-17	1.00000	7.24707e-17	1.00000
rad47	7.59707e-18	1.00000	4.45873e-17	1.00000
rad12	6.32118e-18	1.00000	3.70991e-17	1.00000
rad24	5.63439e-18	1.00000	3.30683e-17	1.00000
rad7	4.44234e-18	1.00000	2.60722e-17	1.00000
rad28	4.30331e-18	1.00000	2.52562e-17	1.00000
rad26	1.37572e-18	1.00000	8.07415e-18	1.00000
rad13	7.33171e-19	1.00000	4.30299e-18	1.00000
rad10	5.95155e-19	1.00000	3.49297e-18	1.00000
rad25	4.50617e-19	1.00000	2.64468e-18	1.00000
rad5	1.84077e-19	1.00000	1.08035e-18	1.00000
rad33	7.87849e-20	1.00000	4.62390e-19	1.00000
rad2	4.58048e-20	1.00000	2.68829e-19	1.00000
rad1	2.64287e-20	1.00000	1.55110e-19	1.00000
rad14	9.45605e-21	1.00000	5.54977e-20	1.00000
rad27	4.76374e-21	1.00000	2.79584e-20	1.00000
rad3	1.99207e-21	1.00000	1.16915e-20	1.00000
rad4	1.11136e-21	1.00000	6.52257e-21	1.00000

0.100000000E-04 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28297e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.816017	0.816017	0.00000	0.00000
PhCH2CCH+H	0.109584	0.925601	0.595618	0.595618
PhCHCCH2+H	0.0267098	0.952311	0.145175	0.740793
Ph+Allene	0.0193046	0.971615	0.104926	0.845719
Indene+H	0.0160484	0.987664	0.0872277	0.932947
PAH3+H	0.00329013	0.990954	0.0178828	0.950829
PAH7+H	0.00121791	0.992172	0.00661968	0.957449
PAH9+H	0.000864009	0.993036	0.00469613	0.962145
PhCCH+CH3	0.000720156	0.993756	0.00391424	0.966060
rad19anti	0.000708493	0.994464	0.00385085	0.969910
Ph+MeAc	0.000663934	0.995128	0.00360866	0.973519
rad50	0.000616859	0.995745	0.00335280	0.976872
rad38	0.000560144	0.996305	0.00304454	0.979916
rad39	0.000491035	0.996796	0.00266891	0.982585
rad51	0.000408498	0.997205	0.00222030	0.984806
rad30	0.000396478	0.997601	0.00215497	0.986961
rad35	0.000343096	0.997945	0.00186482	0.988825
rad46	0.000239253	0.998184	0.00130041	0.990126
rad59	0.000231903	0.998416	0.00126046	0.991386
rad67	0.000214260	0.998630	0.00116456	0.992551
PhCCCH3+H	0.000213580	0.998844	0.00116087	0.993712
rad71	0.000187844	0.999031	0.00102098	0.994733
rad19syn	0.000163941	0.999195	0.000891067	0.995624
PAH10+CH3	0.000121536	0.999317	0.000660582	0.996284
rad60syn	0.000108396	0.999425	0.000589161	0.996873
rad60anti	8.05427e-05	0.999506	0.000437772	0.997311
rad52	7.82960e-05	0.999584	0.000425560	0.997737
rad58	7.77572e-05	0.999662	0.000422632	0.998159
PAH1+H	7.70001e-05	0.999739	0.000418517	0.998578
rad73	7.03552e-05	0.999809	0.000382400	0.998960
PhcycC3H3_A+H	3.98813e-05	0.999849	0.000216766	0.999177
rad70	3.09908e-05	0.999880	0.000168444	0.999346
PAH8+H	2.94355e-05	0.999910	0.000159990	0.999506
rad72	2.58284e-05	0.999935	0.000140384	0.999646
rad37	1.30848e-05	0.999948	7.11194e-05	0.999717
rad34	1.30497e-05	0.999961	7.09289e-05	0.999788
rad54	1.00584e-05	0.999972	5.46703e-05	0.999843
rad65	9.63686e-06	0.999981	5.23790e-05	0.999895
rad68syn	3.67778e-06	0.999985	1.99898e-05	0.999915
rad68anti	2.34154e-06	0.999987	1.27269e-05	0.999928
rad40syn	2.31359e-06	0.999990	1.25750e-05	0.999940
rad64	2.19077e-06	0.999992	1.19074e-05	0.999952
rad56	1.94741e-06	0.999994	1.05847e-05	0.999963
rad40anti	1.74691e-06	0.999995	9.49492e-06	0.999972
rad53	1.18744e-06	0.999997	6.45406e-06	0.999979

rad55	1.16170e-06	0.999998	6.31418e-06	0.999985
rad62	1.07271e-06	0.999999	5.83046e-06	0.999991
rad61	9.59661e-07	1.000000	5.21602e-06	0.999996
rad43	4.20278e-07	1.000000	2.28433e-06	0.999998
rad42	2.24298e-07	1.000000	1.21912e-06	1.000000
rad41	9.47630e-08	1.000000	5.15063e-07	1.000000
rad20	1.54922e-16	1.000000	8.42046e-16	1.000000
rad23	1.32277e-16	1.000000	7.18960e-16	1.000000
rad9	8.16260e-17	1.000000	4.43660e-16	1.000000
rad45	7.23760e-17	1.000000	3.93384e-16	1.000000
rad21	5.97853e-17	1.000000	3.24950e-16	1.000000
rad6	5.10830e-17	1.000000	2.77650e-16	1.000000
rad11	3.59958e-17	1.000000	1.95647e-16	1.000000
rad22	2.59211e-17	1.000000	1.40888e-16	1.000000
rad8	1.76788e-17	1.000000	9.60889e-17	1.000000
rad36	1.39794e-17	1.000000	7.59818e-17	1.000000
rad18	1.20669e-17	1.000000	6.55872e-17	1.000000
rad15	8.31159e-18	1.000000	4.51757e-17	1.000000
rad47	7.97227e-18	1.000000	4.33315e-17	1.000000
rad12	4.90407e-18	1.000000	2.66550e-17	1.000000
rad24	4.12849e-18	1.000000	2.24395e-17	1.000000
rad28	2.83356e-18	1.000000	1.54012e-17	1.000000
rad7	2.66546e-18	1.000000	1.44875e-17	1.000000
rad26	9.26940e-19	1.000000	5.03817e-18	1.000000
rad13	4.73268e-19	1.000000	2.57234e-18	1.000000
rad10	4.23778e-19	1.000000	2.30335e-18	1.000000
rad25	3.78502e-19	1.000000	2.05726e-18	1.000000
rad5	1.76215e-19	1.000000	9.57779e-19	1.000000
rad33	5.47163e-20	1.000000	2.97398e-19	1.000000
rad2	3.44161e-20	1.000000	1.87061e-19	1.000000
rad1	2.03418e-20	1.000000	1.10563e-19	1.000000
rad14	8.43867e-21	1.000000	4.58665e-20	1.000000
rad27	3.99728e-21	1.000000	2.17263e-20	1.000000
rad3	1.31297e-21	1.000000	7.13634e-21	1.000000
rad4	7.27123e-22	1.000000	3.95211e-21	1.000000

0.100000000E-05 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999825	0.999825	0.999826	0.999826
rad6	0.000173662	0.999999	0.000173662	1.000000
Benzyl+C2H2	8.11928e-07	0.999999	0.000000	1.000000
rad2	4.55167e-08	1.000000	4.55167e-08	1.000000
rad7	1.25266e-08	1.000000	1.25266e-08	1.000000
rad11	3.06203e-09	1.000000	3.06203e-09	1.000000
rad1	2.87676e-09	1.000000	2.87676e-09	1.000000
rad10	2.32083e-09	1.000000	2.32083e-09	1.000000
rad3	3.22178e-10	1.000000	3.22178e-10	1.000000
rad4	1.62878e-10	1.000000	1.62878e-10	1.000000
rad13	6.96215e-11	1.000000	6.96215e-11	1.000000
rad33	1.31442e-13	1.000000	1.31442e-13	1.000000
rad20	1.15827e-14	1.000000	1.15827e-14	1.000000
rad21	7.22378e-15	1.000000	7.22378e-15	1.000000
rad28	5.06374e-15	1.000000	5.06374e-15	1.000000
rad26	1.03712e-15	1.000000	1.03712e-15	1.000000
rad23	3.52482e-16	1.000000	3.52482e-16	1.000000
rad18	5.45674e-17	1.000000	5.45674e-17	1.000000
rad35	4.14344e-17	1.000000	4.14344e-17	1.000000
rad22	9.51121e-18	1.000000	9.51122e-18	1.000000
PAH9+H	3.93911e-18	1.000000	3.93911e-18	1.000000
rad45	2.23367e-18	1.000000	2.23367e-18	1.000000
rad31	7.42915e-19	1.000000	7.42916e-19	1.000000
rad27	6.90849e-19	1.000000	6.90850e-19	1.000000
rad36	1.39140e-19	1.000000	1.39140e-19	1.000000
rad30	9.81141e-20	1.000000	9.81142e-20	1.000000
rad38	3.59059e-20	1.000000	3.59059e-20	1.000000
PhCHCCH2+H	3.22908e-20	1.000000	3.22908e-20	1.000000
PhCCH+CH3	1.73820e-21	1.000000	1.73820e-21	1.000000
PhCCCH3+H	2.84217e-22	1.000000	2.84217e-22	1.000000
rad24	2.32696e-22	1.000000	2.32696e-22	1.000000
rad25	2.16728e-22	1.000000	2.16728e-22	1.000000
rad15	5.31132e-23	1.000000	5.31133e-23	1.000000
rad14	2.54766e-23	1.000000	2.54766e-23	1.000000
rad8	1.86627e-27	1.000000	1.86627e-27	1.000000
rad46	7.37213e-30	1.000000	7.37213e-30	1.000000

rad9	6.64824e-30	1.000000	6.64824e-30	1.000000
PAH7+H	1.11048e-30	1.000000	1.11048e-30	1.000000
Ph+MeAc	1.09008e-31	1.000000	1.09009e-31	1.000000
rad12	3.99190e-32	1.000000	3.99190e-32	1.000000
rad39	2.47035e-33	1.000000	2.47035e-33	1.000000
Ph+Allene	5.42307e-36	1.000000	5.42308e-36	1.000000
rad60syn	4.83613e-40	1.000000	4.83613e-40	1.000000
rad60anti	5.14823e-42	1.000000	5.14823e-42	1.000000
PhCH2CCH+H	8.97403e-44	1.000000	8.97404e-44	1.000000
rad37	8.01073e-45	1.000000	8.01074e-45	1.000000
rad5	5.19976e-48	1.000000	5.19976e-48	1.000000
PAH3+H	9.27465e-53	1.000000	9.27466e-53	1.000000
rad59	4.96604e-53	1.000000	4.96605e-53	1.000000
rad50	1.99839e-53	1.000000	1.99840e-53	1.000000
rad19syn	7.36789e-62	1.000000	7.36790e-62	1.000000
rad52	8.86214e-66	1.000000	8.86214e-66	1.000000
rad54	8.52856e-67	1.000000	8.52856e-67	1.000000
PAH10+CH3	5.49378e-67	1.000000	5.49378e-67	1.000000
rad43	1.27739e-67	1.000000	1.27739e-67	1.000000
rad62	3.81908e-70	1.000000	3.81908e-70	1.000000
rad51	4.27147e-73	1.000000	4.27147e-73	1.000000
rad70	4.59304e-76	1.000000	4.59304e-76	1.000000
PhcycC3H3_A+H	1.94535e-76	1.000000	1.94535e-76	1.000000
rad55	1.04749e-76	1.000000	1.04749e-76	1.000000
rad65	2.86784e-78	1.000000	2.86784e-78	1.000000
rad58	6.53561e-80	1.000000	6.53561e-80	1.000000
PAH1+H	8.73062e-82	1.000000	8.73063e-82	1.000000
rad34	5.80243e-84	1.000000	5.80243e-84	1.000000
rad42	4.13417e-88	1.000000	4.13417e-88	1.000000
rad41	5.17096e-89	1.000000	5.17097e-89	1.000000
rad47	1.60279e-92	1.000000	1.60279e-92	1.000000

0.100000000E-05 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15918e-108 (1.00)	1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999831	0.999831	0.999832	0.999832
rad6	0.000167915	0.999999	0.000167915	1.000000
Benzyl+C2H2	1.04106e-06	1.000000	0.000000	1.000000
rad2	5.06130e-08	1.000000	5.06130e-08	1.000000
rad7	1.21136e-08	1.000000	1.21136e-08	1.000000
rad1	3.20072e-09	1.000000	3.20073e-09	1.000000
rad11	2.96020e-09	1.000000	2.96021e-09	1.000000
rad10	2.58545e-09	1.000000	2.58546e-09	1.000000
rad3	3.42643e-10	1.000000	3.42643e-10	1.000000
rad4	1.73249e-10	1.000000	1.73250e-10	1.000000
rad13	6.73489e-11	1.000000	6.73490e-11	1.000000
rad33	1.27177e-13	1.000000	1.27178e-13	1.000000
rad28	5.71523e-15	1.000000	5.71523e-15	1.000000
rad20	5.66073e-15	1.000000	5.66074e-15	1.000000
rad21	3.53099e-15	1.000000	3.53099e-15	1.000000
rad35	3.27649e-15	1.000000	3.27649e-15	1.000000
rad26	9.89796e-16	1.000000	9.89797e-16	1.000000
rad23	6.09424e-17	1.000000	6.09425e-17	1.000000
rad18	2.66584e-17	1.000000	2.66584e-17	1.000000
PAH9+H	8.45243e-18	1.000000	8.45244e-18	1.000000
rad22	3.28086e-18	1.000000	3.28086e-18	1.000000
rad31	8.30294e-19	1.000000	8.30295e-19	1.000000
rad27	5.26250e-19	1.000000	5.26251e-19	1.000000
rad45	3.82256e-19	1.000000	3.82257e-19	1.000000
rad30	1.09553e-19	1.000000	1.09553e-19	1.000000
rad38	5.21975e-20	1.000000	5.21976e-20	1.000000
rad36	2.38043e-20	1.000000	2.38043e-20	1.000000
PhCHCCH2+H	1.72209e-20	1.000000	1.72209e-20	1.000000
PhCCH+CH3	7.65492e-22	1.000000	7.65493e-22	1.000000
PhCCCH3+H	1.18614e-22	1.000000	1.18614e-22	1.000000
rad24	1.15447e-22	1.000000	1.15447e-22	1.000000
rad25	8.83292e-23	1.000000	8.83293e-23	1.000000
rad15	3.49627e-23	1.000000	3.49628e-23	1.000000
rad14	8.65723e-24	1.000000	8.65723e-24	1.000000
rad8	6.12861e-28	1.000000	6.12862e-28	1.000000
rad46	2.87829e-30	1.000000	2.87829e-30	1.000000
rad9	2.03006e-30	1.000000	2.03007e-30	1.000000
PAH7+H	3.21324e-31	1.000000	3.21324e-31	1.000000
Ph+MeAc	3.18040e-32	1.000000	3.18040e-32	1.000000
rad12	1.17049e-32	1.000000	1.17049e-32	1.000000

rad39	6.98400e-34	1.00000	6.98401e-34	1.000000
Ph+Allene	1.53853e-36	1.00000	1.53853e-36	1.000000
rad60syn	1.37528e-40	1.00000	1.37528e-40	1.000000
rad60anti	1.45425e-42	1.00000	1.45425e-42	1.000000
PhCH2CCH+H	2.53176e-44	1.00000	2.53177e-44	1.000000
rad37	2.25702e-45	1.00000	2.25703e-45	1.000000
rad5	1.47398e-48	1.00000	1.47399e-48	1.000000
PAH3+H	2.64207e-53	1.00000	2.64207e-53	1.000000
rad59	1.41451e-53	1.00000	1.41451e-53	1.000000
rad50	5.67692e-54	1.00000	5.67692e-54	1.000000
rad19syn	2.17235e-62	1.00000	2.17235e-62	1.000000
rad52	2.60689e-66	1.00000	2.60690e-66	1.000000
rad54	2.55238e-67	1.00000	2.55238e-67	1.000000
PAH10+CH3	1.64247e-67	1.00000	1.64247e-67	1.000000
rad43	3.83308e-68	1.00000	3.83308e-68	1.000000
rad62	1.15488e-70	1.00000	1.15488e-70	1.000000
rad51	1.28984e-73	1.00000	1.28984e-73	1.000000
rad70	1.41750e-76	1.00000	1.41750e-76	1.000000
PhcycC3H3_A+H	6.01622e-77	1.00000	6.01622e-77	1.000000
rad55	3.23881e-77	1.00000	3.23881e-77	1.000000
rad65	8.79330e-79	1.00000	8.79331e-79	1.000000
rad58	2.02486e-80	1.00000	2.02486e-80	1.000000
PAH1+H	2.74084e-82	1.00000	2.74084e-82	1.000000
rad34	1.83863e-84	1.00000	1.83863e-84	1.000000
rad42	1.32770e-88	1.00000	1.32770e-88	1.000000
rad41	1.67104e-89	1.00000	1.67104e-89	1.000000
rad47	2.49896e-93	1.00000	2.49897e-93	1.000000

0.100000000E-05 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999834	0.999834	0.999836	0.999836
rad6	0.000164083	0.999998	0.000164083	1.000000
Benzyl+C2H2	1.52906e-06	1.000000	0.000000	1.000000
rad2	5.16941e-08	1.000000	5.16942e-08	1.000000
rad7	1.18440e-08	1.000000	1.18440e-08	1.000000
rad1	3.27311e-09	1.000000	3.27311e-09	1.000000
rad11	2.89433e-09	1.000000	2.89433e-09	1.000000
rad10	2.64371e-09	1.000000	2.64371e-09	1.000000
rad3	3.45717e-10	1.000000	3.45718e-10	1.000000
rad4	1.74858e-10	1.000000	1.74859e-10	1.000000
rad13	6.58765e-11	1.000000	6.58766e-11	1.000000
rad33	1.24448e-13	1.000000	1.24448e-13	1.000000
rad35	5.91499e-14	1.000000	5.91500e-14	1.000000
rad28	7.24676e-15	1.000000	7.24677e-15	1.000000
rad20	3.70200e-15	1.000000	3.70200e-15	1.000000
rad21	2.30995e-15	1.000000	2.30995e-15	1.000000
rad26	1.12087e-15	1.000000	1.12087e-15	1.000000
PAH9+H	4.58259e-16	1.000000	4.58260e-16	1.000000
rad23	2.33478e-17	1.000000	2.33478e-17	1.000000
rad18	1.74436e-17	1.000000	1.74437e-17	1.000000
rad22	1.85239e-18	1.000000	1.85239e-18	1.000000
rad31	8.58861e-19	1.000000	8.58862e-19	1.000000
rad27	5.45040e-19	1.000000	5.45041e-19	1.000000
rad45	1.45960e-19	1.000000	1.45960e-19	1.000000
rad30	1.39627e-19	1.000000	1.39628e-19	1.000000
rad38	9.09841e-20	1.000000	9.09843e-20	1.000000
PhCHCCH2+H	1.56154e-20	1.000000	1.56154e-20	1.000000
rad36	9.08385e-21	1.000000	9.08386e-21	1.000000
PhCCH+CH3	6.48680e-22	1.000000	6.48681e-22	1.000000
PhCCCH3+H	9.88349e-23	1.000000	9.88350e-23	1.000000
rad24	7.79971e-23	1.000000	7.79973e-23	1.000000
rad25	6.47647e-23	1.000000	6.47648e-23	1.000000
rad15	3.44035e-23	1.000000	3.44036e-23	1.000000
rad14	5.85307e-24	1.000000	5.85308e-24	1.000000
rad8	4.80367e-28	1.000000	4.80367e-28	1.000000
rad46	2.34909e-30	1.000000	2.34910e-30	1.000000
rad9	1.57492e-30	1.000000	1.57492e-30	1.000000
PAH7+H	2.43737e-31	1.000000	2.43738e-31	1.000000
Ph+MeAc	2.47936e-32	1.000000	2.47936e-32	1.000000
rad12	9.04834e-33	1.000000	9.04836e-33	1.000000
rad39	5.33275e-34	1.000000	5.33276e-34	1.000000
Ph+Allene	1.21489e-36	1.000000	1.21489e-36	1.000000
rad60syn	1.08272e-40	1.000000	1.08272e-40	1.000000
rad60anti	1.15609e-42	1.000000	1.15609e-42	1.000000

PhCH2CCH+H	2.09081e-44	1.000000	2.09081e-44	1.000000
rad37	1.88724e-45	1.000000	1.88724e-45	1.000000
rad5	1.24390e-48	1.000000	1.24390e-48	1.000000
PAH3+H	2.25712e-53	1.000000	2.25712e-53	1.000000
rad59	1.20803e-53	1.000000	1.20803e-53	1.000000
rad50	4.80840e-54	1.000000	4.80841e-54	1.000000
rad19syn	2.01616e-62	1.000000	2.01616e-62	1.000000
rad52	2.40697e-66	1.000000	2.40698e-66	1.000000
rad54	2.44750e-67	1.000000	2.44751e-67	1.000000
PAH10+CH3	1.59445e-67	1.000000	1.59445e-67	1.000000
rad43	3.72955e-68	1.000000	3.72955e-68	1.000000
rad62	1.13780e-70	1.000000	1.13781e-70	1.000000
rad51	1.26096e-73	1.000000	1.26096e-73	1.000000
rad70	1.45156e-76	1.000000	1.45156e-76	1.000000
PhcycC3H3_A+H	6.18796e-77	1.000000	6.18797e-77	1.000000
rad55	3.32981e-77	1.000000	3.32981e-77	1.000000
rad65	8.88139e-79	1.000000	8.88141e-79	1.000000
rad58	2.09063e-80	1.000000	2.09063e-80	1.000000
PAH1+H	2.93049e-82	1.000000	2.93050e-82	1.000000
rad34	1.99063e-84	1.000000	1.99064e-84	1.000000
rad42	1.49015e-88	1.000000	1.49015e-88	1.000000
rad41	1.93697e-89	1.000000	1.93697e-89	1.000000
rad47	1.78864e-93	1.000000	1.78864e-93	1.000000

0.1000000000E-05 Pa, 50.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.31816e-70 (1.00)	2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999837	0.999837	0.999839	0.999839
rad6	0.000160702	0.999998	0.000160702	1.000000
Benzyl+C2H2	2.26165e-06	1.000000	0.000000	1.000000
rad2	5.16724e-08	1.000000	5.16725e-08	1.000000
rad7	1.16102e-08	1.000000	1.16102e-08	1.000000
rad1	3.27748e-09	1.000000	3.27749e-09	1.000000
rad11	2.83750e-09	1.000000	2.83750e-09	1.000000
rad10	2.64507e-09	1.000000	2.64508e-09	1.000000
rad3	3.43621e-10	1.000000	3.43622e-10	1.000000
rad4	1.73875e-10	1.000000	1.73876e-10	1.000000
rad13	6.46099e-11	1.000000	6.46101e-11	1.000000
rad35	3.19921e-13	1.000000	3.19922e-13	1.000000
rad33	1.22126e-13	1.000000	1.22126e-13	1.000000
rad28	1.11752e-14	1.000000	1.11753e-14	1.000000
PAH9+H	8.83170e-15	1.000000	8.83172e-15	1.000000
rad20	2.70697e-15	1.000000	2.70698e-15	1.000000
rad21	1.68987e-15	1.000000	1.68988e-15	1.000000
rad26	1.59017e-15	1.000000	1.59018e-15	1.000000
rad18	1.27661e-17	1.000000	1.27661e-17	1.000000
rad23	1.20494e-17	1.000000	1.20494e-17	1.000000
rad38	2.46126e-18	1.000000	2.46127e-18	1.000000
rad22	1.24593e-18	1.000000	1.24593e-18	1.000000
rad31	8.72983e-19	1.000000	8.72985e-19	1.000000
rad27	7.31952e-19	1.000000	7.31954e-19	1.000000
rad30	3.90071e-19	1.000000	3.90072e-19	1.000000
rad45	7.52270e-20	1.000000	7.52271e-20	1.000000
PhCHCCH2+H	2.04492e-20	1.000000	2.04493e-20	1.000000
rad36	4.67811e-21	1.000000	4.67812e-21	1.000000
PhCCH+CH3	8.28238e-22	1.000000	8.28240e-22	1.000000
PhCCCH3+H	1.25649e-22	1.000000	1.25649e-22	1.000000
rad25	7.04256e-23	1.000000	7.04257e-23	1.000000
rad24	5.97044e-23	1.000000	5.97045e-23	1.000000
rad15	4.68594e-23	1.000000	4.68595e-23	1.000000
rad14	6.11282e-24	1.000000	6.11284e-24	1.000000
rad8	6.08865e-28	1.000000	6.08867e-28	1.000000
rad46	2.96779e-30	1.000000	2.96780e-30	1.000000
rad9	2.01504e-30	1.000000	2.01504e-30	1.000000
PAH7+H	3.08995e-31	1.000000	3.08995e-31	1.000000
Ph+MeAc	3.25579e-32	1.000000	3.25580e-32	1.000000
rad12	1.17219e-32	1.000000	1.17219e-32	1.000000
rad39	6.88096e-34	1.000000	6.88098e-34	1.000000
Ph+Allene	1.64079e-36	1.000000	1.64080e-36	1.000000
rad60syn	1.45410e-40	1.000000	1.45411e-40	1.000000
rad60anti	1.58038e-42	1.000000	1.58038e-42	1.000000
PhCH2CCH+H	3.03649e-44	1.000000	3.03650e-44	1.000000
rad37	2.81961e-45	1.000000	2.81962e-45	1.000000
rad5	1.88175e-48	1.000000	1.88176e-48	1.000000
PAH3+H	3.44650e-53	1.000000	3.44651e-53	1.000000

rad59	1.84373e-53	1.00000	1.84373e-53	1.000000
rad50	7.25386e-54	1.00000	7.25387e-54	1.000000
rad19syn	3.46758e-62	1.00000	3.46758e-62	1.000000
rad52	4.11324e-66	1.00000	4.11325e-66	1.000000
rad54	4.40968e-67	1.00000	4.40969e-67	1.000000
PAH10+CH3	3.06185e-67	1.00000	3.06185e-67	1.000000
rad43	7.17763e-68	1.00000	7.17764e-68	1.000000
rad62	2.18854e-70	1.00000	2.18854e-70	1.000000
rad51	2.33883e-73	1.00000	2.33883e-73	1.000000
rad70	2.87119e-76	1.00000	2.87120e-76	1.000000
PhcycC3H3_A+H	1.23167e-76	1.00000	1.23167e-76	1.000000
rad55	6.62347e-77	1.00000	6.62349e-77	1.000000
rad65	1.72611e-78	1.00000	1.72612e-78	1.000000
rad58	4.18385e-80	1.00000	4.18386e-80	1.000000
PAH1+H	6.17802e-82	1.00000	6.17803e-82	1.000000
rad34	4.26176e-84	1.00000	4.26177e-84	1.000000
rad42	3.61215e-88	1.00000	3.61216e-88	1.000000
rad41	5.73276e-89	1.00000	5.73277e-89	1.000000
rad47	2.83546e-93	1.00000	2.83547e-93	1.000000

0.1000000000E-05 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.44107e-61 (1.00)	8.44104e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999840	0.999840	0.999843	0.999843
rad6	0.000156913	0.999997	0.000156914	1.000000
Benzyl+C2H2	3.25378e-06	1.00000	0.00000	1.000000
rad2	5.10119e-08	1.00000	5.10120e-08	1.000000
rad7	1.13487e-08	1.00000	1.13488e-08	1.000000
rad1	3.24258e-09	1.00000	3.24259e-09	1.000000
rad11	2.77409e-09	1.00000	2.77410e-09	1.000000
rad10	2.61556e-09	1.00000	2.61557e-09	1.000000
rad3	3.39205e-10	1.00000	3.39206e-10	1.000000
rad4	1.71735e-10	1.00000	1.71736e-10	1.000000
rad13	6.31951e-11	1.00000	6.31953e-11	1.000000
rad35	9.63061e-13	1.00000	9.63064e-13	1.000000
rad33	1.19536e-13	1.00000	1.19536e-13	1.000000
PAH9+H	6.37693e-14	1.00000	6.37695e-14	1.000000
rad28	2.29825e-14	1.00000	2.29826e-14	1.000000
rad26	3.05525e-15	1.00000	3.05526e-15	1.000000
rad20	2.10367e-15	1.00000	2.10368e-15	1.000000
rad21	1.31402e-15	1.00000	1.31402e-15	1.000000
rad38	7.73470e-17	1.00000	7.73472e-17	1.000000
rad30	2.84827e-17	1.00000	2.84828e-17	1.000000
rad18	9.92955e-18	1.00000	9.92958e-18	1.000000
rad23	7.27732e-18	1.00000	7.27734e-18	1.000000
rad27	1.36348e-18	1.00000	1.36348e-18	1.000000
rad22	9.16415e-19	1.00000	9.16418e-19	1.000000
rad31	8.79245e-19	1.00000	8.79248e-19	1.000000
rad45	4.54288e-20	1.00000	4.54289e-20	1.000000
PhCHCCH2+H	3.84228e-20	1.00000	3.84229e-20	1.000000
rad36	2.82272e-21	1.00000	2.82273e-21	1.000000
PhCCH+CH3	1.54648e-21	1.00000	1.54648e-21	1.000000
rad15	5.64601e-22	1.00000	5.64603e-22	1.000000
PhCCCH3+H	2.34983e-22	1.00000	2.34984e-22	1.000000
rad25	1.12353e-22	1.00000	1.12354e-22	1.000000
rad24	4.90214e-23	1.00000	4.90216e-23	1.000000
rad14	9.53695e-24	1.00000	9.53698e-24	1.000000
rad8	1.16866e-27	1.00000	1.16867e-27	1.000000
rad46	5.55301e-30	1.00000	5.55303e-30	1.000000
rad9	3.93600e-30	1.00000	3.93601e-30	1.000000
PAH7+H	6.02975e-31	1.00000	6.02977e-31	1.000000
Ph+MeAc	6.63291e-32	1.00000	6.63294e-32	1.000000
rad12	2.34757e-32	1.00000	2.34758e-32	1.000000
rad39	1.37485e-33	1.00000	1.37485e-33	1.000000
Ph+Allene	3.45401e-36	1.00000	3.45402e-36	1.000000
rad60syn	3.03884e-40	1.00000	3.03885e-40	1.000000
rad60anti	3.37861e-42	1.00000	3.37862e-42	1.000000
PhCH2CCH+H	7.00259e-44	1.00000	7.00262e-44	1.000000
rad37	6.92810e-45	1.00000	6.92812e-45	1.000000
rad5	4.70923e-48	1.00000	4.70924e-48	1.000000
PAH3+H	8.45713e-53	1.00000	8.45716e-53	1.000000
rad59	4.52146e-53	1.00000	4.52148e-53	1.000000
rad50	1.75898e-53	1.00000	1.75899e-53	1.000000
rad19syn	9.87448e-62	1.00000	9.87451e-62	1.000000
rad52	1.17226e-65	1.00000	1.17227e-65	1.000000

rad54	1.33266e-66	1.00000	1.33267e-66	1.000000
PAH10+CH3	1.27994e-66	1.00000	1.27994e-66	1.000000
rad43	3.01296e-67	1.00000	3.01297e-67	1.000000
rad62	8.55783e-70	1.00000	8.55786e-70	1.000000
rad51	7.47428e-73	1.00000	7.47430e-73	1.000000
rad70	9.81867e-76	1.00000	9.81870e-76	1.000000
PhcycC3H3_A+H	4.24822e-76	1.00000	4.24823e-76	1.000000
rad55	2.28243e-76	1.00000	2.28244e-76	1.000000
rad65	5.91161e-78	1.00000	5.91163e-78	1.000000
rad58	1.45389e-79	1.00000	1.45389e-79	1.000000
PAH1+H	2.32040e-81	1.00000	2.32041e-81	1.000000
rad34	1.62981e-83	1.00000	1.62981e-83	1.000000
rad42	3.01634e-87	1.00000	3.01635e-87	1.000000
rad41	9.74131e-88	1.00000	9.74134e-88	1.000000
rad47	8.84038e-93	1.00000	8.84041e-93	1.000000

0.100000000E-05 Pa, 70.0000000 K

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

Total | 5.61998e-54 (1.00) | 5.61996e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999843	0.999843	0.999848	0.999848
rad6	0.000152308	0.999995	0.000152309	1.000000
Benzyl+C2H2	4.55744e-06	1.000000	0.000000	1.000000
rad2	4.98526e-08	1.000000	4.98528e-08	1.000000
rad7	1.10293e-08	1.000000	1.10294e-08	1.000000
rad1	3.17680e-09	1.000000	3.17682e-09	1.000000
rad11	2.69658e-09	1.000000	2.69660e-09	1.000000
rad10	2.55884e-09	1.000000	2.55885e-09	1.000000
rad3	3.30667e-10	1.000000	3.30668e-10	1.000000
rad4	1.67519e-10	1.000000	1.67520e-10	1.000000
rad13	6.14605e-11	1.000000	6.14608e-11	1.000000
rad35	2.11145e-12	1.000000	2.11145e-12	1.000000
PAH9+H	2.62360e-13	1.000000	2.62361e-13	1.000000
rad33	1.16349e-13	1.000000	1.16350e-13	1.000000
rad28	8.28580e-14	1.000000	8.28584e-14	1.000000
rad26	1.06610e-14	1.000000	1.06611e-14	1.000000
rad20	1.69953e-15	1.000000	1.69954e-15	1.000000
rad21	1.06230e-15	1.000000	1.06230e-15	1.000000
rad30	1.03527e-15	1.000000	1.03527e-15	1.000000
rad38	9.18281e-16	1.000000	9.18285e-16	1.000000
rad18	8.02749e-18	1.000000	8.02753e-18	1.000000
rad23	4.84667e-18	1.000000	4.84670e-18	1.000000
rad27	4.00306e-18	1.000000	4.00308e-18	1.000000
rad31	8.78505e-19	1.000000	8.78509e-19	1.000000
rad22	7.11454e-19	1.000000	7.11458e-19	1.000000
PhCHCCH2+H	1.56815e-19	1.000000	1.56816e-19	1.000000
rad15	9.45252e-20	1.000000	9.45257e-20	1.000000
rad45	3.02862e-20	1.000000	3.02864e-20	1.000000
PhCCH+CH3	6.36477e-21	1.000000	6.36480e-21	1.000000
rad36	1.88037e-21	1.000000	1.88037e-21	1.000000
PhCCH3+H	9.67558e-22	1.000000	9.67562e-22	1.000000
rad25	3.81871e-22	1.000000	3.81872e-22	1.000000
rad24	4.21227e-23	1.000000	4.21229e-23	1.000000
rad14	3.26019e-23	1.000000	3.26020e-23	1.000000
rad8	4.23484e-27	1.000000	4.23486e-27	1.000000
rad46	1.50867e-27	1.000000	1.50868e-27	1.000000
rad9	1.45660e-29	1.000000	1.45661e-29	1.000000
PAH7+H	2.27121e-30	1.000000	2.27122e-30	1.000000
Ph+MeAc	2.60287e-31	1.000000	2.60288e-31	1.000000
rad12	9.05218e-32	1.000000	9.05222e-32	1.000000
rad39	5.31017e-33	1.000000	5.31019e-33	1.000000
Ph+Allene	1.39669e-35	1.000000	1.39670e-35	1.000000
rad60syn	1.21839e-39	1.000000	1.21840e-39	1.000000
rad60anti	1.39092e-41	1.000000	1.39093e-41	1.000000
PhCH2CCH+H	3.15111e-43	1.000000	3.15112e-43	1.000000
rad37	3.63927e-44	1.000000	3.63928e-44	1.000000
rad5	2.55782e-47	1.000000	2.55783e-47	1.000000
PAH3+H	4.10408e-52	1.000000	4.10410e-52	1.000000
rad59	2.19242e-52	1.000000	2.19243e-52	1.000000
rad50	8.59310e-53	1.000000	8.59314e-53	1.000000
rad19syn	5.89122e-61	1.000000	5.89124e-61	1.000000
rad52	7.58238e-65	1.000000	7.58242e-65	1.000000
PAH10+CH3	2.37278e-65	1.000000	2.37279e-65	1.000000
rad54	8.80332e-66	1.000000	8.80336e-66	1.000000
rad43	5.61621e-66	1.000000	5.61624e-66	1.000000
rad62	1.45267e-68	1.000000	1.45268e-68	1.000000

rad51	6.54373e-72	1.000000	6.54376e-72	1.00000
rad70	8.56628e-75	1.000000	8.56632e-75	1.00000
PhcycC3H3_A+H	3.79566e-75	1.000000	3.79568e-75	1.00000
rad55	2.03324e-75	1.000000	2.03325e-75	1.00000
rad65	6.49074e-77	1.000000	6.49077e-77	1.00000
rad58	1.32692e-78	1.000000	1.32692e-78	1.00000
PAH1+H	2.78285e-80	1.000000	2.78287e-80	1.00000
rad34	2.03835e-82	1.000000	2.03836e-82	1.00000
rad42	2.48182e-85	1.000000	2.48183e-85	1.00000
rad41	1.14756e-85	1.000000	1.14756e-85	1.00000
rad47	1.29038e-91	1.000000	1.29039e-91	1.00000

0.100000000E-05 Pa, 80.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.28864e-49 (1.00)	7.28860e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999847	0.999847	0.999853	0.999853
rad6	0.000146707	0.999994	0.000146708	1.000000
Benzyl+C2H2	6.25350e-06	1.000000	0.00000	1.000000
rad2	4.82110e-08	1.00000	4.82113e-08	1.000000
rad7	1.06381e-08	1.00000	1.06382e-08	1.000000
rad1	3.08077e-09	1.00000	3.08079e-09	1.000000
rad11	2.60156e-09	1.00000	2.60158e-09	1.000000
rad10	2.47897e-09	1.00000	2.47898e-09	1.000000
rad3	3.20155e-10	1.00000	3.20157e-10	1.000000
rad4	1.62310e-10	1.00000	1.62311e-10	1.000000
rad13	5.93273e-11	1.00000	5.93276e-11	1.000000
rad35	3.84693e-12	1.00000	3.84695e-12	1.000000
PAH9+H	7.64026e-13	1.00000	7.64031e-13	1.000000
rad28	4.70010e-13	1.00000	4.70013e-13	1.000000
rad33	1.12412e-13	1.00000	1.12413e-13	1.000000
rad26	6.34645e-14	1.00000	6.34649e-14	1.000000
rad30	1.51701e-14	1.00000	1.51702e-14	1.000000
rad38	5.80911e-15	1.00000	5.80914e-15	1.000000
rad20	1.41027e-15	1.00000	1.41028e-15	1.000000
rad21	8.82161e-16	1.00000	8.82167e-16	1.000000
rad27	1.45133e-17	1.00000	1.45134e-17	1.000000
rad18	6.66372e-18	1.00000	6.66376e-18	1.000000
rad15	4.85196e-18	1.00000	4.85199e-18	1.000000
PhCHCCH2+H	3.85634e-18	1.00000	3.85637e-18	1.000000
rad23	3.45202e-18	1.00000	3.45204e-18	1.000000
rad31	8.70956e-19	1.00000	8.70962e-19	1.000000
rad22	5.72386e-19	1.00000	5.72390e-19	1.000000
PhCCH+CH3	2.53507e-19	1.00000	2.53509e-19	1.000000
PhCCCH3+H	4.50364e-20	1.00000	4.50367e-20	1.000000
rad45	2.16264e-20	1.00000	2.16265e-20	1.000000
rad25	3.76523e-21	1.00000	3.76525e-21	1.000000
rad36	1.34179e-21	1.00000	1.34180e-21	1.000000
rad14	4.28117e-22	1.00000	4.28120e-22	1.000000
rad24	3.73686e-23	1.00000	3.73688e-23	1.000000
rad46	4.59045e-25	1.00000	4.59048e-25	1.000000
rad8	4.32676e-25	1.00000	4.32679e-25	1.000000
rad9	2.60161e-28	1.00000	2.60163e-28	1.000000
PAH7+H	4.33072e-29	1.00000	4.33075e-29	1.000000
Ph+MeAc	4.87474e-30	1.00000	4.87477e-30	1.000000
rad12	1.69028e-30	1.00000	1.69029e-30	1.000000
rad39	1.03273e-31	1.00000	1.03274e-31	1.000000
Ph+Allene	2.74923e-34	1.00000	2.74924e-34	1.000000
rad60syn	2.37614e-38	1.00000	2.37616e-38	1.000000
rad60anti	2.79155e-40	1.00000	2.79157e-40	1.000000
PhCH2CCH+H	6.97765e-42	1.00000	6.97769e-42	1.000000
rad37	9.65300e-43	1.00000	9.65306e-43	1.000000
rad5	7.07261e-46	1.00000	7.07265e-46	1.000000
PAH3+H	9.94030e-51	1.00000	9.94036e-51	1.000000
rad59	5.30437e-51	1.00000	5.30440e-51	1.000000
rad50	2.23353e-51	1.00000	2.23354e-51	1.000000
rad19syn	1.98032e-59	1.00000	1.98033e-59	1.000000
rad52	3.64706e-63	1.00000	3.64708e-63	1.000000
PAH10+CH3	2.69498e-63	1.00000	2.69500e-63	1.000000
rad43	6.39055e-64	1.00000	6.39059e-64	1.000000
rad54	3.69985e-64	1.00000	3.69987e-64	1.000000
rad62	1.80199e-66	1.00000	1.80200e-66	1.000000
rad51	6.34664e-70	1.00000	6.34668e-70	1.000000
rad70	7.20939e-73	1.00000	7.20944e-73	1.000000
PhcycC3H3_A+H	3.38556e-73	1.00000	3.38558e-73	1.000000
rad55	1.79855e-73	1.00000	1.79856e-73	1.000000

rad65	9.61201e-75	1.00000	9.61207e-75	1.000000
rad58	1.24491e-76	1.00000	1.24492e-76	1.000000
PAH1+H	4.60075e-78	1.00000	4.60078e-78	1.000000
rad34	3.69742e-80	1.00000	3.69745e-80	1.000000
rad42	1.07300e-82	1.00000	1.07301e-82	1.000000
rad41	5.27627e-83	1.00000	5.27630e-83	1.000000
rad47	3.07382e-89	1.00000	3.07384e-89	1.000000

0.100000000E-05 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.85154e-45 (1.00)	6.85148e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999851	0.999851	0.999860	0.999860
rad6	0.000140067	0.999991	0.000140068	1.000000
Benzyl+C2H2	8.45148e-06	1.000000	0.000000	1.000000
rad2	4.61828e-08	1.000000	4.61832e-08	1.000000
rad7	1.01714e-08	1.000000	1.01715e-08	1.000000
rad1	2.96025e-09	1.000000	2.96027e-09	1.000000
rad11	2.48809e-09	1.000000	2.48811e-09	1.000000
rad10	2.37757e-09	1.000000	2.37759e-09	1.000000
rad3	3.06880e-10	1.000000	3.06882e-10	1.000000
rad4	1.55704e-10	1.000000	1.55706e-10	1.000000
rad13	5.67728e-11	1.000000	5.67733e-11	1.000000
rad35	6.25483e-12	1.000000	6.25488e-12	1.000000
rad28	2.45420e-12	1.000000	2.45422e-12	1.000000
PAH9+H	1.77801e-12	1.000000	1.77803e-12	1.000000
rad26	3.51670e-13	1.000000	3.51673e-13	1.000000
rad30	1.20964e-13	1.000000	1.20965e-13	1.000000
rad33	1.07677e-13	1.000000	1.07678e-13	1.000000
rad38	2.43280e-14	1.000000	2.43282e-14	1.000000
rad20	1.19310e-15	1.000000	1.19311e-15	1.000000
rad21	7.46945e-16	1.000000	7.46952e-16	1.000000
PhCHCCH2+H	1.12216e-16	1.000000	1.12217e-16	1.000000
rad15	1.02399e-16	1.000000	1.02400e-16	1.000000
rad27	4.69026e-17	1.000000	4.69030e-17	1.000000
PhCCH+CH3	1.25088e-17	1.000000	1.25089e-17	1.000000
rad18	5.63744e-18	1.000000	5.63749e-18	1.000000
PhCCCH3+H	2.64014e-18	1.000000	2.64016e-18	1.000000
rad23	2.58358e-18	1.000000	2.58360e-18	1.000000
rad31	8.56782e-19	1.000000	8.56789e-19	1.000000
rad22	4.72092e-19	1.000000	4.72096e-19	1.000000
rad25	3.74909e-20	1.000000	3.74912e-20	1.000000
rad45	1.62211e-20	1.000000	1.62212e-20	1.000000
rad14	5.98577e-21	1.000000	5.98582e-21	1.000000
rad36	1.00586e-21	1.000000	1.00587e-21	1.000000
rad8	1.14318e-22	1.000000	1.14319e-22	1.000000
rad46	3.75460e-23	1.000000	3.75463e-23	1.000000
rad24	3.39438e-23	1.000000	3.39440e-23	1.000000
rad9	1.27051e-24	1.000000	1.27052e-24	1.000000
PAH7+H	2.18162e-25	1.000000	2.18164e-25	1.000000
rad12	7.66070e-27	1.000000	7.66076e-27	1.000000
Ph+MeAc	2.60439e-27	1.000000	2.60441e-27	1.000000
rad39	1.69764e-29	1.000000	1.69766e-29	1.000000
Ph+Allene	4.61862e-32	1.000000	4.61865e-32	1.000000
rad60syn	3.95472e-36	1.000000	3.95475e-36	1.000000
rad60anti	4.78047e-38	1.000000	4.78051e-38	1.000000
PhCH2CCH+H	1.31171e-39	1.000000	1.31172e-39	1.000000
rad37	1.77038e-40	1.000000	1.77039e-40	1.000000
rad5	1.31663e-43	1.000000	1.31665e-43	1.000000
PAH3+H	2.02189e-48	1.000000	2.02191e-48	1.000000
rad59	1.07787e-48	1.000000	1.07788e-48	1.000000
rad50	4.76908e-49	1.000000	4.76912e-49	1.000000
rad19syn	5.43973e-57	1.000000	5.43978e-57	1.000000
rad52	1.43425e-60	1.000000	1.43426e-60	1.000000
PAH10+CH3	1.29979e-60	1.000000	1.29980e-60	1.000000
rad43	3.08391e-61	1.000000	3.08394e-61	1.000000
rad54	1.28635e-61	1.000000	1.28636e-61	1.000000
rad62	1.00726e-63	1.000000	1.00727e-63	1.000000
rad51	4.44238e-67	1.000000	4.44242e-67	1.000000
rad70	4.95483e-70	1.000000	4.95487e-70	1.000000
PhcycC3H3_A+H	2.44838e-70	1.000000	2.44840e-70	1.000000
rad55	1.28953e-70	1.000000	1.28954e-70	1.000000
rad65	9.07399e-72	1.000000	9.07406e-72	1.000000
rad58	9.39284e-74	1.000000	9.39292e-74	1.000000
PAH1+H	5.31824e-75	1.000000	5.31828e-75	1.000000
rad34	4.67491e-77	1.000000	4.67495e-77	1.000000

rad42	1.77199e-79	1.000000	1.77201e-79	1.00000
rad41	9.02764e-80	1.000000	9.02772e-80	1.00000
rad47	3.81394e-86	1.000000	3.81397e-86	1.00000

0.100000000E-05 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02670e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999856	0.999856	0.999867	0.999867
rad6	0.000132452	0.999988	0.000132454	0.999999
Benzyl+C2H2	1.12952e-05	1.000000	0.000000	0.999999
rad2	4.38491e-08	1.000000	4.38496e-08	0.999999
rad7	9.63323e-09	1.000000	9.63334e-09	1.000000
rad1	2.82013e-09	1.000000	2.82016e-09	1.000000
rad11	2.35713e-09	1.000000	2.35716e-09	1.000000
rad10	2.25884e-09	1.000000	2.25887e-09	1.000000
rad3	2.90471e-10	1.000000	2.90475e-10	1.000000
rad4	1.47509e-10	1.000000	1.47511e-10	1.000000
rad13	5.38181e-11	1.000000	5.38187e-11	1.000000
rad28	9.82530e-12	1.000000	9.82541e-12	1.000000
rad35	9.46245e-12	1.000000	9.46256e-12	1.000000
PAH9+H	3.55784e-12	1.000000	3.55788e-12	1.000000
rad26	1.46713e-12	1.000000	1.46714e-12	1.000000
rad30	6.32692e-13	1.000000	6.32699e-13	1.000000
rad33	1.02180e-13	1.000000	1.02182e-13	1.000000
rad38	7.69564e-14	1.000000	7.69573e-14	1.000000
PhCHCCH2+H	1.88871e-15	1.000000	1.88873e-15	1.000000
rad15	1.16430e-15	1.000000	1.16431e-15	1.000000
rad20	1.02409e-15	1.000000	1.02410e-15	1.000000
rad21	6.41726e-16	1.000000	6.41733e-16	1.000000
PhCCH+CH3	3.15507e-16	1.000000	3.15511e-16	1.000000
rad27	1.23734e-16	1.000000	1.23736e-16	1.000000
PhCCCH3+H	7.57567e-17	1.000000	7.57576e-17	1.000000
rad18	4.83643e-18	1.000000	4.83648e-18	1.000000
rad23	2.01042e-18	1.000000	2.01044e-18	1.000000
rad31	8.36211e-19	1.000000	8.36220e-19	1.000000
rad22	3.96428e-19	1.000000	3.96432e-19	1.000000
rad25	2.51245e-19	1.000000	2.51248e-19	1.000000
rad14	5.26780e-20	1.000000	5.26786e-20	1.000000
rad45	1.26590e-20	1.000000	1.26592e-20	1.000000
rad8	7.90501e-21	1.000000	7.90510e-21	1.000000
rad46	1.26408e-21	1.000000	1.26410e-21	1.000000
rad36	7.84669e-22	1.000000	7.84678e-22	1.000000
rad9	1.71831e-22	1.000000	1.71832e-22	1.000000
PAH7+H	4.59544e-23	1.000000	4.59549e-23	1.000000
rad24	3.14002e-23	1.000000	3.14005e-23	1.000000
Ph+MeAc	1.57874e-23	1.000000	1.57876e-23	1.000000
rad12	2.82021e-24	1.000000	2.82024e-24	1.000000
rad39	3.51233e-25	1.000000	3.51237e-25	1.000000
Ph+Allene	1.51442e-29	1.000000	1.51444e-29	1.000000
rad60syn	1.28402e-33	1.000000	1.28404e-33	1.000000
rad60anti	1.59876e-35	1.000000	1.59878e-35	1.000000
PhCH2CCH+H	4.82618e-37	1.000000	4.82624e-37	1.000000
rad37	6.24223e-38	1.000000	6.24230e-38	1.000000
rad5	4.68496e-41	1.000000	4.68501e-41	1.000000
PAH3+H	8.03534e-46	1.000000	8.03543e-46	1.000000
rad59	4.27952e-46	1.000000	4.27957e-46	1.000000
rad50	1.90629e-46	1.000000	1.90631e-46	1.000000
rad19syn	2.93660e-54	1.000000	2.93663e-54	1.000000
PAH10+CH3	1.12420e-57	1.000000	1.12422e-57	1.000000
rad52	1.01835e-57	1.000000	1.01836e-57	1.000000
rad43	2.66909e-58	1.000000	2.66912e-58	1.000000
rad54	9.07251e-59	1.000000	9.07261e-59	1.000000
rad62	1.01904e-60	1.000000	1.01905e-60	1.000000
rad51	5.26529e-64	1.000000	5.26535e-64	1.000000
rad70	6.99764e-67	1.000000	6.99772e-67	1.000000
PhcycC3H3_A+H	3.63095e-67	1.000000	3.63099e-67	1.000000
rad55	1.89378e-67	1.000000	1.89380e-67	1.000000
rad65	1.40541e-68	1.000000	1.40543e-68	1.000000
rad58	1.44755e-70	1.000000	1.44757e-70	1.000000
PAH1+H	1.22259e-71	1.000000	1.22260e-71	1.000000
rad34	1.18611e-73	1.000000	1.18612e-73	1.000000
rad42	5.29899e-76	1.000000	5.29905e-76	1.000000
rad41	2.78543e-76	1.000000	2.78546e-76	1.000000
rad47	7.59005e-83	1.000000	7.59014e-83	1.000000

0.100000000E-05 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04926e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999861	0.999861	0.999876	0.999876
rad6	0.000124010	0.999985	0.000124012	1.000000
Benzyl+C2H2	1.49711e-05	1.000000	0.000000	1.000000
rad2	4.11317e-08	1.000000	4.11323e-08	1.000000
rad7	9.03374e-09	1.000000	9.03388e-09	1.000000
rad1	2.65508e-09	1.000000	2.65512e-09	1.000000
rad11	2.21113e-09	1.000000	2.21116e-09	1.000000
rad10	2.12307e-09	1.000000	2.12310e-09	1.000000
rad3	2.73576e-10	1.000000	2.73580e-10	1.000000
rad4	1.39064e-10	1.000000	1.39067e-10	1.000000
rad13	5.05180e-11	1.000000	5.05187e-11	1.000000
rad28	3.05670e-11	1.000000	3.05675e-11	1.000000
rad35	1.36702e-11	1.000000	1.36704e-11	1.000000
PAH9+H	6.41561e-12	1.000000	6.41571e-12	1.000000
rad26	4.68278e-12	1.000000	4.68285e-12	1.000000
rad30	2.44532e-12	1.000000	2.44535e-12	1.000000
rad38	2.00028e-13	1.000000	2.00031e-13	1.000000
rad33	9.60223e-14	1.000000	9.60238e-14	1.000000
PhCHCCH2+H	1.98131e-14	1.000000	1.98134e-14	1.000000
rad15	8.47747e-15	1.000000	8.47760e-15	1.000000
PhCCH+CH3	4.57503e-15	1.000000	4.57510e-15	1.000000
PhCCCH3+H	1.21477e-15	1.000000	1.21479e-15	1.000000
rad20	8.88835e-16	1.000000	8.88848e-16	1.000000
rad21	5.57527e-16	1.000000	5.57535e-16	1.000000
rad27	2.70677e-16	1.000000	2.70681e-16	1.000000
rad18	4.19327e-18	1.000000	4.19334e-18	1.000000
rad23	1.61625e-18	1.000000	1.61628e-18	1.000000
rad25	1.17366e-18	1.000000	1.17368e-18	1.000000
rad31	8.09502e-19	1.000000	8.09514e-19	1.000000
rad22	3.37349e-19	1.000000	3.37354e-19	1.000000
rad14	3.06615e-19	1.000000	3.06620e-19	1.000000
rad8	2.54396e-19	1.000000	2.54400e-19	1.000000
rad46	2.24506e-20	1.000000	2.24509e-20	1.000000
rad45	1.02439e-20	1.000000	1.02440e-20	1.000000
rad9	8.70784e-21	1.000000	8.70797e-21	1.000000
PAH7+H	2.76478e-21	1.000000	2.76482e-21	1.000000
Ph+MeAc	1.76895e-21	1.000000	1.76898e-21	1.000000
rad36	6.34817e-22	1.000000	6.34827e-22	1.000000
rad12	1.91682e-22	1.000000	1.91685e-22	1.000000
rad39	3.70445e-23	1.000000	3.70451e-23	1.000000
rad24	2.94733e-23	1.000000	2.94737e-23	1.000000
Ph+Allene	1.91243e-24	1.000000	1.91246e-24	1.000000
rad60syn	2.70844e-26	1.000000	2.70848e-26	1.000000
rad60anti	1.02857e-27	1.000000	1.02859e-27	1.000000
PhCH2CCH+H	4.18290e-34	1.000000	4.18296e-34	1.000000
rad37	4.95345e-35	1.000000	4.95352e-35	1.000000
rad5	3.67027e-38	1.000000	3.67032e-38	1.000000
PAH3+H	7.46186e-43	1.000000	7.46197e-43	1.000000
rad59	3.97121e-43	1.000000	3.97127e-43	1.000000
rad50	1.67178e-43	1.000000	1.67180e-43	1.000000
rad19syn	3.15924e-51	1.000000	3.15929e-51	1.000000
PAH10+CH3	1.43288e-54	1.000000	1.43291e-54	1.000000
rad52	1.25495e-54	1.000000	1.25497e-54	1.000000
rad43	3.40374e-55	1.000000	3.40379e-55	1.000000
rad54	1.14082e-55	1.000000	1.14084e-55	1.000000
rad62	1.52082e-57	1.000000	1.52084e-57	1.000000
rad51	1.00836e-60	1.000000	1.00837e-60	1.000000
rad70	1.54344e-63	1.000000	1.54346e-63	1.000000
PhcycC3H3_A+H	8.38410e-64	1.000000	8.38422e-64	1.000000
rad55	4.32533e-64	1.000000	4.32539e-64	1.000000
rad65	3.46062e-65	1.000000	3.46067e-65	1.000000
rad58	3.46326e-67	1.000000	3.46331e-67	1.000000
PAH1+H	4.33115e-68	1.000000	4.33121e-68	1.000000
rad34	4.70179e-70	1.000000	4.70186e-70	1.000000
rad42	2.32896e-72	1.000000	2.32900e-72	1.000000
rad41	1.25620e-72	1.000000	1.25622e-72	1.000000
rad47	2.40293e-79	1.000000	2.40297e-79	1.000000

0.100000000E-05 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 5.87106e-37 (1.00) 5.87094e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999865	0.999865	0.999885	0.999885
rad6	0.000114942	0.999980	0.000114944	1.000000
Benzyl+C2H2	1.97191e-05	1.000000	0.000000	1.000000
rad2	3.81950e-08	1.000000	3.81958e-08	1.000000
rad7	8.38725e-09	1.000000	8.38741e-09	1.000000
rad1	2.47539e-09	1.000000	2.47544e-09	1.000000
rad11	2.05356e-09	1.000000	2.05360e-09	1.000000
rad10	1.97451e-09	1.000000	1.97455e-09	1.000000
rad3	2.53683e-10	1.000000	2.53688e-10	1.000000
rad4	1.29090e-10	1.000000	1.29092e-10	1.000000
rad28	7.72987e-11	1.000000	7.73003e-11	1.000000
rad13	4.69509e-11	1.000000	4.69518e-11	1.000000
rad35	1.91804e-11	1.000000	1.91808e-11	1.000000
rad26	1.20218e-11	1.000000	1.20221e-11	1.000000
PAH9+H	1.07577e-11	1.000000	1.07579e-11	1.000000
rad30	7.56086e-12	1.000000	7.56101e-12	1.000000
rad38	4.51773e-13	1.000000	4.51782e-13	1.000000
PhCHCCH2+H	1.44245e-13	1.000000	1.44247e-13	1.000000
rad33	8.93487e-14	1.000000	8.93504e-14	1.000000
rad15	4.43402e-14	1.000000	4.43411e-14	1.000000
PhCCH+CH3	4.34622e-14	1.000000	4.34631e-14	1.000000
PhCCCH3+H	1.25011e-14	1.000000	1.25014e-14	1.000000
rad20	7.78171e-16	1.000000	7.78187e-16	1.000000
rad27	5.07718e-16	1.000000	5.07728e-16	1.000000
rad21	4.88642e-16	1.000000	4.88652e-16	1.000000
rad8	4.61387e-18	1.000000	4.61396e-18	1.000000
rad25	4.12090e-18	1.000000	4.12099e-18	1.000000
rad18	3.66518e-18	1.000000	3.66525e-18	1.000000
rad23	1.33772e-18	1.000000	1.33775e-18	1.000000
rad14	1.29104e-18	1.000000	1.29106e-18	1.000000
rad31	7.77595e-19	1.000000	7.77610e-19	1.000000
rad22	2.89966e-19	1.000000	2.89972e-19	1.000000
rad46	2.47621e-19	1.000000	2.47626e-19	1.000000
rad9	2.29081e-19	1.000000	2.29086e-19	1.000000
PAH7+H	8.24049e-20	1.000000	8.24065e-20	1.000000
Ph+MeAc	7.41835e-20	1.000000	7.41850e-20	1.000000
rad45	8.51295e-21	1.000000	8.51311e-21	1.000000
rad12	6.23101e-21	1.000000	6.23113e-21	1.000000
rad39	1.51505e-21	1.000000	1.51508e-21	1.000000
rad36	5.27526e-22	1.000000	5.27537e-22	1.000000
Ph+Allene	1.55505e-22	1.000000	1.55508e-22	1.000000
rad24	2.79983e-23	1.000000	2.79988e-23	1.000000
rad60syn	1.65778e-24	1.000000	1.65782e-24	1.000000
rad60anti	9.96798e-26	1.000000	9.96817e-26	1.000000
PhCH2CCH+H	2.55841e-31	1.000000	2.55846e-31	1.000000
rad37	2.92178e-32	1.000000	2.92184e-32	1.000000
rad5	2.15492e-35	1.000000	2.15496e-35	1.000000
PAH3+H	4.91817e-40	1.000000	4.91826e-40	1.000000
rad59	2.61528e-40	1.000000	2.61533e-40	1.000000
rad50	1.03778e-40	1.000000	1.03780e-40	1.000000
rad19syn	2.38633e-48	1.000000	2.38637e-48	1.000000
PAH10+CH3	1.24241e-51	1.000000	1.24243e-51	1.000000
rad52	1.02236e-51	1.000000	1.02238e-51	1.000000
rad43	2.95334e-52	1.000000	2.95339e-52	1.000000
rad54	9.88584e-53	1.000000	9.88603e-53	1.000000
rad62	1.54478e-54	1.000000	1.54482e-54	1.000000
rad51	1.27550e-57	1.000000	1.27552e-57	1.000000
rad70	2.36709e-60	1.000000	2.36714e-60	1.000000
PhcycC3H3_A+H	1.35105e-60	1.000000	1.35108e-60	1.000000
rad55	6.87524e-61	1.000000	6.87538e-61	1.000000
rad65	5.64276e-62	1.000000	5.64287e-62	1.000000
rad58	5.78986e-64	1.000000	5.78997e-64	1.000000
PAH1+H	1.11141e-64	1.000000	1.11143e-64	1.000000
rad34	1.38135e-66	1.000000	1.38138e-66	1.000000
rad42	7.09346e-69	1.000000	7.09360e-69	1.000000
rad41	3.88510e-69	1.000000	3.88518e-69	1.000000
rad47	5.09859e-76	1.000000	5.09869e-76	1.000000

0.100000000E-05 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.94360e-35 (1.00)	3.94350e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.999869	0.999869	0.999894	0.999894
rad6	0.000105480	0.999974	0.000105483	0.999999
Benzyl+C2H2	2.58440e-05	1.00000	0.00000	0.999999
rad2	3.50782e-08	1.00000	3.50791e-08	1.000000
rad7	7.71032e-09	1.00000	7.71052e-09	1.000000
rad1	2.28329e-09	1.00000	2.28335e-09	1.000000
rad11	1.88847e-09	1.00000	1.88852e-09	1.000000
rad10	1.81834e-09	1.00000	1.81839e-09	1.000000
rad3	2.33857e-10	1.00000	2.33863e-10	1.000000
rad28	1.65521e-10	1.00000	1.65525e-10	1.000000
rad4	1.19140e-10	1.00000	1.19143e-10	1.000000
rad13	4.32083e-11	1.00000	4.32094e-11	1.000000
rad35	2.64291e-11	1.00000	2.64298e-11	1.000000
rad26	2.59533e-11	1.00000	2.59540e-11	1.000000
rad30	1.97580e-11	1.00000	1.97585e-11	1.000000
PAH9+H	1.71397e-11	1.00000	1.71401e-11	1.000000
rad38	9.21086e-13	1.00000	9.21110e-13	1.000000
PhCHCCH2+H	7.91164e-13	1.00000	7.91185e-13	1.000000
PhCCH+CH3	2.97852e-13	1.00000	2.97860e-13	1.000000
rad15	1.80339e-13	1.00000	1.80344e-13	1.000000
PhCCCH3+H	9.13497e-14	1.00000	9.13520e-14	1.000000
rad33	8.23307e-14	1.00000	8.23328e-14	1.000000
rad27	8.41764e-16	1.00000	8.41785e-16	1.000000
rad20	6.86008e-16	1.00000	6.86026e-16	1.000000
rad21	4.31274e-16	1.00000	4.31285e-16	1.000000
rad8	5.38484e-17	1.00000	5.38498e-17	1.000000
rad25	1.15687e-17	1.00000	1.15690e-17	1.000000
rad14	4.22266e-18	1.00000	4.22277e-18	1.000000
rad9	3.66572e-18	1.00000	3.66581e-18	1.000000
rad18	3.22371e-18	1.00000	3.22379e-18	1.000000
rad46	1.89877e-18	1.00000	1.89882e-18	1.000000
Ph+MeAc	1.76943e-18	1.00000	1.76948e-18	1.000000
PAH7+H	1.45388e-18	1.00000	1.45392e-18	1.000000
rad23	1.13842e-18	1.00000	1.13845e-18	1.000000
rad31	7.41592e-19	1.00000	7.41611e-19	1.000000
rad22	2.51147e-19	1.00000	2.51153e-19	1.000000
rad12	1.18241e-19	1.00000	1.18244e-19	1.000000
rad39	3.50737e-20	1.00000	3.50746e-20	1.000000
rad45	7.32326e-21	1.00000	7.32344e-21	1.000000
Ph+Allene	5.85782e-21	1.00000	5.85797e-21	1.000000
rad36	4.53872e-22	1.00000	4.53884e-22	1.000000
rad60syn	5.24603e-23	1.00000	5.24616e-23	1.000000
rad24	2.68680e-23	1.00000	2.68687e-23	1.000000
rad60anti	4.01381e-24	1.00000	4.01392e-24	1.000000
PhCH2CCH+H	1.64587e-25	1.00000	1.64591e-25	1.000000
rad37	3.40660e-26	1.00000	3.40668e-26	1.000000
rad5	1.70837e-32	1.00000	1.70842e-32	1.000000
PAH3+H	4.27349e-37	1.00000	4.27360e-37	1.000000
rad59	2.27045e-37	1.00000	2.27051e-37	1.000000
rad50	8.46819e-38	1.00000	8.46841e-38	1.000000
rad19syn	2.17431e-45	1.00000	2.17437e-45	1.000000
PAH10+CH3	9.32526e-49	1.00000	9.32550e-49	1.000000
rad52	8.26782e-49	1.00000	8.26803e-49	1.000000
rad43	2.21782e-49	1.00000	2.21787e-49	1.000000
rad54	8.68579e-50	1.00000	8.68602e-50	1.000000
rad62	1.35015e-51	1.00000	1.35019e-51	1.000000
rad51	1.51063e-54	1.00000	1.51067e-54	1.000000
rad70	3.12366e-57	1.00000	3.12374e-57	1.000000
PhcycC3H3_A+H	1.87316e-57	1.00000	1.87321e-57	1.000000
rad55	9.38261e-58	1.00000	9.38285e-58	1.000000
rad65	8.59873e-59	1.00000	8.59895e-59	1.000000
rad58	8.32691e-61	1.00000	8.32713e-61	1.000000
PAH1+H	2.46337e-61	1.00000	2.46343e-61	1.000000
rad34	3.51984e-63	1.00000	3.51993e-63	1.000000
rad42	1.85855e-65	1.00000	1.85859e-65	1.000000
rad41	1.02317e-65	1.00000	1.02320e-65	1.000000
rad47	1.01707e-72	1.00000	1.01709e-72	1.000000

0.100000000E-05 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.44756e-33 (1.00)	1.44751e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999870	0.999870	0.999904	0.999904
rad6	9.58633e-05	0.999966	9.58665e-05	1.000000
Benzyl+C2H2	3.37300e-05	1.000000	0.00000	1.000000
rad2	3.20464e-08	1.000000	3.20475e-08	1.000000

rad7	7.02004e-09	1.000000	7.02027e-09	1.000000
rad1	2.09582e-09	1.000000	2.09589e-09	1.000000
rad11	1.72002e-09	1.000000	1.72008e-09	1.000000
rad10	1.66065e-09	1.000000	1.66070e-09	1.000000
rad28	3.09977e-10	1.000000	3.09988e-10	1.000000
rad3	2.12637e-10	1.000000	2.12644e-10	1.000000
rad4	1.08468e-10	1.000000	1.08472e-10	1.000000
rad26	4.87812e-11	1.000000	4.87829e-11	1.000000
rad30	4.53758e-11	1.000000	4.53773e-11	1.000000
rad13	3.93849e-11	1.000000	3.93862e-11	1.000000
rad35	3.60233e-11	1.000000	3.60245e-11	1.000000
PAH9+H	2.63391e-11	1.000000	2.63400e-11	1.000000
PhCHCCH2+H	3.47228e-12	1.000000	3.47240e-12	1.000000
rad38	1.74077e-12	1.000000	1.74083e-12	1.000000
PhCCH+CH3	1.57917e-12	1.000000	1.57922e-12	1.000000
rad15	6.03444e-13	1.000000	6.03464e-13	1.000000
PhCCCH3+H	5.09980e-13	1.000000	5.09997e-13	1.000000
rad33	7.51462e-14	1.000000	7.51487e-14	1.000000
rad27	1.26371e-15	1.000000	1.26375e-15	1.000000
rad20	6.08138e-16	1.000000	6.08159e-16	1.000000
rad8	4.44687e-16	1.000000	4.44702e-16	1.000000
rad21	3.82802e-16	1.000000	3.82815e-16	1.000000
rad9	3.97084e-17	1.000000	3.97097e-17	1.000000
rad25	2.72023e-17	1.000000	2.72032e-17	1.000000
Ph+MeAc	2.71202e-17	1.000000	2.71211e-17	1.000000
PAH7+H	1.70143e-17	1.000000	1.70149e-17	1.000000
rad14	1.13118e-17	1.000000	1.13121e-17	1.000000
rad46	1.09713e-17	1.000000	1.09717e-17	1.000000
rad18	2.84927e-18	1.000000	2.84936e-18	1.000000
rad12	1.47169e-18	1.000000	1.47174e-18	1.000000
rad23	9.96566e-19	1.000000	9.96599e-19	1.000000
rad31	7.02761e-19	1.000000	7.02785e-19	1.000000
rad39	5.20377e-19	1.000000	5.20395e-19	1.000000
rad22	2.18797e-19	1.000000	2.18804e-19	1.000000
Ph+Allene	1.30350e-19	1.000000	1.30354e-19	1.000000
rad45	6.48711e-21	1.000000	6.48733e-21	1.000000
rad60syn	1.00452e-21	1.000000	1.00456e-21	1.000000
rad36	4.02197e-22	1.000000	4.02211e-22	1.000000
rad60anti	9.33601e-23	1.000000	9.33633e-23	1.000000
rad24	2.60108e-23	1.000000	2.60117e-23	1.000000
PhCH2CCH+H	1.18682e-23	1.000000	1.18686e-23	1.000000
rad37	3.38804e-24	1.000000	3.38815e-24	1.000000
rad5	6.97130e-27	1.000000	6.97153e-27	1.000000
PAH3+H	1.15604e-28	1.000000	1.15608e-28	1.000000
rad59	5.78020e-29	1.000000	5.78040e-29	1.000000
rad50	7.59925e-30	1.000000	7.59950e-30	1.000000
rad19syn	1.46757e-42	1.000000	1.46762e-42	1.000000
rad52	4.36708e-46	1.000000	4.36723e-46	1.000000
PAH10+CH3	4.36109e-46	1.000000	4.36124e-46	1.000000
rad43	1.03739e-46	1.000000	1.03743e-46	1.000000
rad54	5.32978e-47	1.000000	5.32996e-47	1.000000
rad62	7.28966e-49	1.000000	7.28991e-49	1.000000
rad51	1.10703e-51	1.000000	1.10706e-51	1.000000
rad70	2.52080e-54	1.000000	2.52088e-54	1.000000
PhcycC3H3_A+H	1.58947e-54	1.000000	1.58952e-54	1.000000
rad55	7.81801e-55	1.000000	7.81828e-55	1.000000
rad65	8.14338e-56	1.000000	8.14365e-56	1.000000
rad58	7.33109e-58	1.000000	7.33134e-58	1.000000
PAH1+H	3.34189e-58	1.000000	3.34201e-58	1.000000
rad34	5.48081e-60	1.000000	5.48099e-60	1.000000
rad42	3.01460e-62	1.000000	3.01470e-62	1.000000
rad41	1.65091e-62	1.000000	1.65097e-62	1.000000
rad47	1.27344e-69	1.000000	1.27348e-69	1.000000

0.100000000E-05 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27722e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999870	0.999870	0.999914	0.999914
rad6	8.63129e-05	0.999956	8.63167e-05	1.000000
Benzyl+C2H2	4.38559e-05	1.000000	0.000000	1.000000
rad2	2.87322e-08	1.000000	2.87335e-08	1.000000
rad7	6.33252e-09	1.000000	6.33280e-09	1.000000
rad1	1.88875e-09	1.000000	1.88884e-09	1.000000
rad11	1.55216e-09	1.000000	1.55223e-09	1.000000
rad10	1.49815e-09	1.000000	1.49822e-09	1.000000

rad28	5.20504e-10	1.00000	5.20526e-10	1.00000
rad3	1.91794e-10	1.00000	1.91803e-10	1.00000
rad4	9.79731e-11	1.00000	9.79774e-11	1.00000
rad30	9.42275e-11	1.00000	9.42316e-11	1.00000
rad26	8.19700e-11	1.00000	8.19736e-11	1.00000
rad35	4.87885e-11	1.00000	4.87907e-11	1.00000
PAH9+H	3.94496e-11	1.00000	3.94514e-11	1.00000
rad13	3.55703e-11	1.00000	3.55719e-11	1.00000
PhCHCCH2+H	1.27496e-11	1.00000	1.27501e-11	1.00000
PhCCH+CH3	6.81972e-12	1.00000	6.82002e-12	1.00000
rad38	3.10698e-12	1.00000	3.10711e-12	1.00000
PhCCCH3+H	2.29552e-12	1.00000	2.29562e-12	1.00000
rad15	1.73104e-12	1.00000	1.73112e-12	1.00000
rad33	6.79645e-14	1.00000	6.79675e-14	1.00000
rad8	2.78607e-15	1.00000	2.78620e-15	1.00000
rad27	1.75023e-15	1.00000	1.75031e-15	1.00000
rad20	5.41570e-16	1.00000	5.41593e-16	1.00000
rad21	3.41363e-16	1.00000	3.41378e-16	1.00000
rad9	3.14960e-16	1.00000	3.14974e-16	1.00000
Ph+MeAc	2.91849e-16	1.00000	2.91862e-16	1.00000
PAH7+H	1.43566e-16	1.00000	1.43572e-16	1.00000
rad25	5.54719e-17	1.00000	5.54743e-17	1.00000
rad46	5.06722e-17	1.00000	5.06744e-17	1.00000
rad14	2.58157e-17	1.00000	2.58168e-17	1.00000
rad12	1.30845e-17	1.00000	1.30851e-17	1.00000
rad39	5.41545e-18	1.00000	5.41569e-18	1.00000
rad18	2.52794e-18	1.00000	2.52805e-18	1.00000
Ph+Allene	1.93155e-18	1.00000	1.93164e-18	1.00000
rad23	8.99176e-19	1.00000	8.99216e-19	1.00000
rad31	6.61728e-19	1.00000	6.61757e-19	1.00000
rad22	1.91467e-19	1.00000	1.91475e-19	1.00000
rad60syn	1.29362e-20	1.00000	1.29367e-20	1.00000
rad45	5.95664e-21	1.00000	5.95690e-21	1.00000
rad60anti	1.42014e-21	1.00000	1.42020e-21	1.00000
PhCH2CCH+H	3.70672e-22	1.00000	3.70688e-22	1.00000
rad36	3.69530e-22	1.00000	3.69546e-22	1.00000
rad37	1.02521e-22	1.00000	1.02525e-22	1.00000
rad24	2.53781e-23	1.00000	2.53792e-23	1.00000
rad5	3.31273e-25	1.00000	3.31287e-25	1.00000
PAH3+H	1.81874e-26	1.00000	1.81882e-26	1.00000
rad59	8.19792e-27	1.00000	8.19828e-27	1.00000
rad50	5.49371e-28	1.00000	5.49395e-28	1.00000
rad19syn	2.97474e-39	1.00000	2.97487e-39	1.00000
rad52	5.08513e-43	1.00000	5.08535e-43	1.00000
PAH10+CH3	2.77482e-43	1.00000	2.77494e-43	1.00000
rad54	8.65582e-44	1.00000	8.65619e-44	1.00000
rad43	6.57178e-44	1.00000	6.57206e-44	1.00000
rad62	4.99939e-46	1.00000	4.99961e-46	1.00000
rad51	1.15985e-48	1.00000	1.15991e-48	1.00000
rad70	2.34413e-51	1.00000	2.34423e-51	1.00000
PhcycC3H3_A+H	1.51496e-51	1.00000	1.51502e-51	1.00000
rad55	7.36493e-52	1.00000	7.36525e-52	1.00000
rad65	1.07920e-52	1.00000	1.07925e-52	1.00000
rad58	7.17791e-55	1.00000	7.17823e-55	1.00000
PAH1+H	4.37510e-55	1.00000	4.37530e-55	1.00000
rad34	7.85903e-57	1.00000	7.85938e-57	1.00000
rad42	5.31525e-59	1.00000	5.31548e-59	1.00000
rad41	2.97639e-59	1.00000	2.97652e-59	1.00000
rad47	2.22231e-66	1.00000	2.22241e-66	1.00000

0.100000000E-05 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01140e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999866	0.999866	0.999923	0.999923
rad6	7.70242e-05	0.999943	7.70286e-05	1.00000
Benzyl+C2H2	5.68139e-05	1.000000	0.00000	1.00000
rad2	2.58743e-08	1.000000	2.58758e-08	1.00000
rad7	5.66199e-09	1.000000	5.66231e-09	1.00000
rad1	1.71041e-09	1.000000	1.71050e-09	1.00000
rad11	1.38836e-09	1.000000	1.38844e-09	1.00000
rad10	1.34612e-09	1.000000	1.34620e-09	1.00000
rad28	7.98881e-10	1.000000	7.98927e-10	1.00000
rad30	1.80706e-10	1.000000	1.80716e-10	1.00000
rad3	1.72502e-10	1.000000	1.72512e-10	1.00000
rad26	1.25663e-10	1.000000	1.25670e-10	1.00000

rad4	8.82533e-11	1.000000	8.82583e-11	1.00000
rad35	6.58289e-11	1.000000	6.58326e-11	1.00000
PAH9+H	5.80000e-11	1.000000	5.80033e-11	1.00000
PhCHCCH2+H	4.04998e-11	1.000000	4.05021e-11	1.00000
rad13	3.18441e-11	1.000000	3.18459e-11	1.00000
PhCCH+CH3	2.49342e-11	1.000000	2.49356e-11	1.00000
PhCCCH3+H	8.67443e-12	1.000000	8.67492e-12	1.00000
rad38	5.30665e-12	1.000000	5.30695e-12	1.00000
rad15	4.38958e-12	1.000000	4.38983e-12	1.00000
rad33	6.09362e-14	1.000000	6.09397e-14	1.00000
rad8	1.39546e-14	1.000000	1.39554e-14	1.00000
Ph+MeAc	2.35516e-15	1.000000	2.35529e-15	1.00000
rad27	2.26878e-15	1.000000	2.26890e-15	1.00000
rad9	1.94016e-15	1.000000	1.94027e-15	1.00000
PAH7+H	9.29778e-16	1.000000	9.29831e-16	1.00000
rad20	4.84115e-16	1.000000	4.84142e-16	1.00000
rad21	3.05594e-16	1.000000	3.05611e-16	1.00000
rad46	1.95507e-16	1.000000	1.95518e-16	1.00000
rad25	1.00721e-16	1.000000	1.00726e-16	1.00000
rad12	8.85742e-17	1.000000	8.85792e-17	1.00000
rad14	5.17082e-17	1.000000	5.17112e-17	1.00000
rad39	4.22745e-17	1.000000	4.22769e-17	1.00000
Ph+Allene	2.05913e-17	1.000000	2.05925e-17	1.00000
rad18	2.24956e-18	1.000000	2.24969e-18	1.00000
rad23	8.38946e-19	1.000000	8.38993e-19	1.00000
rad31	6.20577e-19	1.000000	6.20612e-19	1.00000
rad22	1.68123e-19	1.000000	1.68133e-19	1.00000
rad60syn	1.20851e-19	1.000000	1.20858e-19	1.00000
rad60anti	1.53285e-20	1.000000	1.53294e-20	1.00000
PhCH2CCH+H	7.07445e-21	1.000000	7.07485e-21	1.00000
rad45	5.69318e-21	1.000000	5.69350e-21	1.00000
rad37	1.92352e-21	1.000000	1.92363e-21	1.00000
rad36	3.53489e-22	1.000000	3.53509e-22	1.00000
rad24	2.49368e-23	1.000000	2.49383e-23	1.00000
rad5	7.57809e-24	1.000000	7.57852e-24	1.00000
PAH3+H	5.45433e-25	1.000000	5.45464e-25	1.00000
rad59	2.30298e-25	1.000000	2.30311e-25	1.00000
rad50	1.44925e-26	1.000000	1.44934e-26	1.00000
rad19syn	3.66157e-36	1.000000	3.66178e-36	1.00000
rad52	4.66838e-40	1.000000	4.66864e-40	1.00000
PAH10+CH3	1.37440e-40	1.000000	1.37448e-40	1.00000
rad54	1.04673e-40	1.000000	1.04679e-40	1.00000
rad43	3.21740e-41	1.000000	3.21758e-41	1.00000
rad62	2.33482e-43	1.000000	2.33495e-43	1.00000
rad51	6.68093e-46	1.000000	6.68131e-46	1.00000
rad70	1.33443e-48	1.000000	1.33450e-48	1.00000
PhcycC3H3_A+H	8.52179e-49	1.000000	8.52227e-49	1.00000
rad55	4.13536e-49	1.000000	4.13560e-49	1.00000
rad65	7.52097e-50	1.000000	7.52139e-50	1.00000
rad58	4.07363e-52	1.000000	4.07386e-52	1.00000
PAH1+H	2.97688e-52	1.000000	2.97705e-52	1.00000
rad34	5.75667e-54	1.000000	5.75700e-54	1.00000
rad42	4.98161e-56	1.000000	4.98189e-56	1.00000
rad41	2.88102e-56	1.000000	2.88119e-56	1.00000
rad47	2.05177e-63	1.000000	2.05189e-63	1.00000

0.100000000E-05 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54780e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999858	0.999858	0.999932	0.999932
Benzyl+C2H2	7.33295e-05	0.999931	0.00000	0.999932
rad6	6.81560e-05	0.999999	6.81610e-05	1.00000
rad2	2.27443e-08	1.000000	2.27460e-08	1.00000
rad7	5.02012e-09	1.000000	5.02049e-09	1.00000
rad1	1.51265e-09	1.000000	1.51276e-09	1.00000
rad11	1.23148e-09	1.000000	1.23157e-09	1.00000
rad10	1.19341e-09	1.000000	1.19350e-09	1.00000
rad28	1.13765e-09	1.000000	1.13774e-09	1.00000
rad30	3.25161e-10	1.000000	3.25185e-10	1.00000
rad26	1.78532e-10	1.000000	1.78545e-10	1.00000
rad3	1.52842e-10	1.000000	1.52853e-10	1.00000
PhCHCCH2+H	1.14181e-10	1.000000	1.14189e-10	1.00000
rad35	8.86039e-11	1.000000	8.86104e-11	1.00000
PAH9+H	8.41067e-11	1.000000	8.41129e-11	1.00000
PhCCH+CH3	7.94903e-11	1.000000	7.94962e-11	1.00000

rad4	7.83264e-11	1.000000	7.83322e-11	1.00000
PhCCCH3+H	2.83815e-11	1.000000	2.83836e-11	1.00000
rad13	2.82715e-11	1.000000	2.82736e-11	1.00000
rad15	1.00713e-11	1.000000	1.00720e-11	1.00000
rad38	8.75538e-12	1.000000	8.75603e-12	1.00000
rad8	5.81585e-14	1.000000	5.81627e-14	1.00000
rad33	5.41860e-14	1.000000	5.41899e-14	1.00000
Ph+MeAc	1.49883e-14	1.000000	1.49894e-14	1.00000
rad9	9.70881e-15	1.000000	9.70953e-15	1.00000
PAH7+H	4.84765e-15	1.000000	4.84801e-15	1.00000
rad27	2.78350e-15	1.000000	2.78370e-15	1.00000
rad46	6.51669e-16	1.000000	6.51717e-16	1.00000
rad12	4.79324e-16	1.000000	4.79359e-16	1.00000
rad20	4.34138e-16	1.000000	4.34170e-16	1.00000
rad21	2.74478e-16	1.000000	2.74498e-16	1.00000
rad39	2.60551e-16	1.000000	2.60570e-16	1.00000
Ph+Allene	1.67450e-16	1.000000	1.67462e-16	1.00000
rad25	1.66158e-16	1.000000	1.66170e-16	1.00000
rad14	9.29947e-17	1.000000	9.30015e-17	1.00000
rad18	2.00655e-18	1.000000	2.00669e-18	1.00000
rad60syn	8.67680e-19	1.000000	8.67743e-19	1.00000
rad23	8.12812e-19	1.000000	8.12871e-19	1.00000
rad31	5.79068e-19	1.000000	5.79111e-19	1.00000
rad22	1.48008e-19	1.000000	1.48018e-19	1.00000
rad60anti	1.24865e-19	1.000000	1.24875e-19	1.00000
PhCH2CCH+H	9.53035e-20	1.000000	9.53105e-20	1.00000
rad37	2.51847e-20	1.000000	2.51865e-20	1.00000
rad45	5.68747e-21	1.000000	5.68789e-21	1.00000
rad36	3.53536e-22	1.000000	3.53562e-22	1.00000
rad5	1.17209e-22	1.000000	1.17218e-22	1.00000
rad24	2.46650e-23	1.000000	2.46668e-23	1.00000
PAH3+H	1.00146e-23	1.000000	1.00154e-23	1.00000
rad59	4.07844e-24	1.000000	4.07874e-24	1.00000
rad50	2.47924e-25	1.000000	2.47942e-25	1.00000
rad19syn	3.67677e-29	1.000000	3.67704e-29	1.00000
rad52	2.29678e-31	1.000000	2.29695e-31	1.00000
rad54	8.12265e-38	1.000000	8.12325e-38	1.00000
PAH10+CH3	6.62248e-38	1.000000	6.62297e-38	1.00000
rad43	1.53233e-38	1.000000	1.53244e-38	1.00000
rad62	9.67466e-41	1.000000	9.67537e-41	1.00000
rad51	2.43421e-43	1.000000	2.43439e-43	1.00000
rad70	5.74490e-46	1.000000	5.74532e-46	1.00000
PhcycC3H3_A+H	3.41966e-46	1.000000	3.41991e-46	1.00000
rad55	1.68826e-46	1.000000	1.68838e-46	1.00000
rad65	2.93277e-47	1.000000	2.93299e-47	1.00000
rad58	1.58254e-49	1.000000	1.58266e-49	1.00000
PAH1+H	1.12915e-49	1.000000	1.12924e-49	1.00000
rad34	2.29567e-51	1.000000	2.29584e-51	1.00000
rad42	2.62279e-53	1.000000	2.62298e-53	1.00000
rad41	1.58286e-53	1.000000	1.58297e-53	1.00000
rad47	1.04851e-60	1.000000	1.04859e-60	1.00000

0.100000000E-05 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69315e-29 (1.00)	4.69271e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999846	0.999846	0.999940	0.999940
Benzyl+C2H2	9.42845e-05	0.999940	0.00000	0.999940
rad6	5.98288e-05	1.00000	5.98344e-05	1.000000
rad2	2.01074e-08	1.00000	2.01093e-08	1.000000
rad7	4.41588e-09	1.00000	4.41630e-09	1.000000
rad28	1.52101e-09	1.00000	1.52115e-09	1.000000
rad1	1.34612e-09	1.00000	1.34625e-09	1.000000
rad11	1.08373e-09	1.00000	1.08383e-09	1.000000
rad10	1.05313e-09	1.00000	1.05323e-09	1.000000
rad30	5.55642e-10	1.00000	5.55694e-10	1.000000
PhCHCCH2+H	2.91420e-10	1.00000	2.91448e-10	1.000000
rad26	2.37968e-10	1.00000	2.37990e-10	1.000000
PhCCH+CH3	2.26067e-10	1.00000	2.26088e-10	1.000000
rad3	1.34925e-10	1.00000	1.34937e-10	1.000000
PAH9+H	1.20671e-10	1.00000	1.20682e-10	1.000000
rad35	1.19026e-10	1.00000	1.19037e-10	1.000000
PhCCCH3+H	8.23498e-11	1.00000	8.23576e-11	1.000000
rad4	6.92711e-11	1.00000	6.92776e-11	1.000000
rad13	2.49033e-11	1.00000	2.49056e-11	1.000000
rad15	2.12851e-11	1.00000	2.12872e-11	1.000000

rad38	1.40486e-11	1.00000	1.40499e-11	1.000000
rad8	2.08059e-13	1.00000	2.08078e-13	1.000000
Ph+MeAc	7.82302e-14	1.00000	7.82376e-14	1.000000
rad33	4.78106e-14	1.00000	4.78152e-14	1.000000
rad9	4.08720e-14	1.00000	4.08759e-14	1.000000
PAH7+H	2.11156e-14	1.00000	2.11176e-14	1.000000
rad27	3.26070e-15	1.00000	3.26101e-15	1.000000
rad12	2.15350e-15	1.00000	2.15370e-15	1.000000
rad46	1.92592e-15	1.00000	1.92610e-15	1.000000
rad39	1.31930e-15	1.00000	1.31942e-15	1.000000
Ph+Allene	1.08689e-15	1.00000	1.08699e-15	1.000000
rad20	3.90391e-16	1.00000	3.90428e-16	1.000000
rad25	2.52999e-16	1.00000	2.53023e-16	1.000000
rad21	2.47236e-16	1.00000	2.47260e-16	1.000000
rad14	1.52856e-16	1.00000	1.52870e-16	1.000000
rad60syn	5.00698e-18	1.00000	5.00745e-18	1.000000
rad18	1.79311e-18	1.00000	1.79327e-18	1.000000
PhCH2CCH+H	9.66782e-19	1.00000	9.66873e-19	1.000000
rad23	8.21391e-19	1.00000	8.21469e-19	1.000000
rad60anti	8.05148e-19	1.00000	8.05224e-19	1.000000
rad31	5.39054e-19	1.00000	5.39104e-19	1.000000
rad37	2.45014e-19	1.00000	2.45037e-19	1.000000
rad22	1.30552e-19	1.00000	1.30564e-19	1.000000
rad45	5.96969e-21	1.00000	5.97025e-21	1.000000
rad5	1.33532e-21	1.00000	1.33545e-21	1.000000
rad36	3.71617e-22	1.00000	3.71652e-22	1.000000
PAH3+H	1.31622e-22	1.00000	1.31635e-22	1.000000
rad59	5.19689e-23	1.00000	5.19738e-23	1.000000
rad24	2.45487e-23	1.00000	2.45510e-23	1.000000
rad50	3.08695e-24	1.00000	3.08724e-24	1.000000
rad19syn	4.66133e-27	1.00000	4.66177e-27	1.000000
rad52	1.37731e-29	1.00000	1.37744e-29	1.000000
rad54	8.06844e-35	1.00000	8.06920e-35	1.000000
PAH10+CH3	5.46486e-35	1.00000	5.46537e-35	1.000000
rad43	1.25899e-35	1.00000	1.25911e-35	1.000000
rad62	7.19420e-38	1.00000	7.19488e-38	1.000000
rad51	1.15314e-40	1.00000	1.15324e-40	1.000000
rad70	3.98177e-43	1.00000	3.98215e-43	1.000000
PhcycC3H3_A+H	2.07656e-43	1.00000	2.07675e-43	1.000000
rad55	1.07063e-43	1.00000	1.07073e-43	1.000000
rad65	9.17380e-45	1.00000	9.17467e-45	1.000000
rad58	8.58390e-47	1.00000	8.58471e-47	1.000000
PAH1+H	2.99042e-47	1.00000	2.99070e-47	1.000000
rad34	5.91552e-49	1.00000	5.91608e-49	1.000000
rad42	9.21753e-51	1.00000	9.21840e-51	1.000000
rad41	5.89565e-51	1.00000	5.89620e-51	1.000000
rad47	3.85148e-58	1.00000	3.85184e-58	1.000000

0.100000000E-05 Pa, 190.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.16530e-28 (1.00)	3.16492e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999827	0.999827	0.999948	0.999948
Benzyl+C2H2	0.000120742	0.999948	0.00000	0.999948
rad6	5.21252e-05	1.000000	5.21315e-05	1.000000
rad2	1.76153e-08	1.000000	1.76174e-08	1.000000
rad7	3.85550e-09	1.000000	3.85596e-09	1.000000
rad28	1.92726e-09	1.000000	1.92750e-09	1.000000
rad1	1.18776e-09	1.000000	1.18791e-09	1.000000
rad11	9.46629e-10	1.000000	9.46743e-10	1.000000
rad10	9.23381e-10	1.000000	9.23492e-10	1.000000
rad30	9.10061e-10	1.000000	9.10171e-10	1.000000
PhCHCCH2+H	6.83909e-10	1.000000	6.83991e-10	1.000000
PhCCH+CH3	5.83910e-10	1.000000	5.83981e-10	1.000000
rad26	3.00498e-10	1.000000	3.00534e-10	1.000000
PhCCCH3+H	2.15926e-10	1.000000	2.15952e-10	1.000000
PAH9+H	1.71630e-10	1.000000	1.71650e-10	1.000000
rad35	1.59582e-10	1.000000	1.59601e-10	1.000000
rad3	1.17766e-10	1.000000	1.17780e-10	1.000000
rad4	6.05829e-11	1.000000	6.05902e-11	1.000000
rad15	4.20209e-11	1.000000	4.20260e-11	1.000000
rad38	2.20299e-11	1.000000	2.20326e-11	1.000000
rad13	2.17748e-11	1.000000	2.17774e-11	1.000000
rad8	6.54764e-13	1.000000	6.54843e-13	1.000000
Ph+MeAc	3.45409e-13	1.000000	3.45451e-13	1.000000
rad9	1.48797e-13	1.000000	1.48815e-13	1.000000

PAH7+H	7.91171e-14	1.000000	7.91267e-14	1.00000
rad33	4.18789e-14	1.000000	4.18840e-14	1.00000
rad12	8.27534e-15	1.000000	8.27633e-15	1.00000
Ph+Allene	5.83598e-15	1.000000	5.83668e-15	1.00000
rad39	5.66278e-15	1.000000	5.66347e-15	1.00000
rad46	5.15009e-15	1.000000	5.15071e-15	1.00000
rad27	3.67272e-15	1.000000	3.67317e-15	1.00000
rad25	3.60013e-16	1.000000	3.60056e-16	1.00000
rad20	3.51902e-16	1.000000	3.51945e-16	1.00000
rad14	2.32871e-16	1.000000	2.32900e-16	1.00000
rad21	2.23266e-16	1.000000	2.23293e-16	1.00000
rad60syn	2.40560e-17	1.000000	2.40589e-17	1.00000
PhCH2CCH+H	7.73302e-18	1.000000	7.73395e-18	1.00000
rad60anti	4.26710e-18	1.000000	4.26761e-18	1.00000
rad37	1.85724e-18	1.000000	1.85747e-18	1.00000
rad18	1.60473e-18	1.000000	1.60493e-18	1.00000
rad23	8.69306e-19	1.000000	8.69411e-19	1.00000
rad31	5.00851e-19	1.000000	5.00912e-19	1.00000
rad22	1.15321e-19	1.000000	1.15335e-19	1.00000
rad5	1.17915e-20	1.000000	1.17929e-20	1.00000
rad45	6.59034e-21	1.000000	6.59114e-21	1.00000
PAH3+H	1.32122e-21	1.000000	1.32138e-21	1.00000
rad59	5.06390e-22	1.000000	5.06451e-22	1.00000
rad36	4.10986e-22	1.000000	4.11036e-22	1.00000
rad50	2.96740e-23	1.000000	2.96775e-23	1.00000
rad24	2.45808e-23	1.000000	2.45838e-23	1.00000
rad19syn	1.22410e-25	1.000000	1.22425e-25	1.00000
rad54	5.45679e-28	1.000000	5.45744e-28	1.00000
PAH10+CH3	3.67385e-28	1.000000	3.67429e-28	1.00000
rad52	3.13060e-28	1.000000	3.13098e-28	1.00000
rad43	8.93607e-29	1.000000	8.93715e-29	1.00000
rad62	4.15620e-30	1.000000	4.15670e-30	1.00000
rad51	2.56194e-31	1.000000	2.56224e-31	1.00000
rad70	7.96556e-40	1.000000	7.96653e-40	1.00000
PhcycC3H3_A+H	3.95388e-40	1.000000	3.95435e-40	1.00000
rad55	2.07913e-40	1.000000	2.07938e-40	1.00000
rad65	5.51262e-42	1.000000	5.51329e-42	1.00000
rad58	1.52829e-43	1.000000	1.52848e-43	1.00000
PAH1+H	1.34035e-44	1.000000	1.34052e-44	1.00000
rad34	1.87870e-46	1.000000	1.87893e-46	1.00000
rad42	2.99123e-48	1.000000	2.99159e-48	1.00000
rad41	2.03939e-48	1.000000	2.03964e-48	1.00000
rad47	1.45209e-55	1.000000	1.45227e-55	1.00000

0.100000000E-05 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76088e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999801	0.999801	0.999955	0.999955
Benzyl+C2H2	0.000153975	0.999955	0.00000	0.999955
rad6	4.50936e-05	1.00000	4.51006e-05	1.00000
rad2	1.52126e-08	1.00000	1.52149e-08	1.00000
rad7	3.34273e-09	1.00000	3.34325e-09	1.00000
rad28	2.33204e-09	1.00000	2.33240e-09	1.00000
PhCHCCH2+H	1.49417e-09	1.00000	1.49440e-09	1.00000
rad30	1.43887e-09	1.00000	1.43909e-09	1.00000
PhCCH+CH3	1.38940e-09	1.00000	1.38961e-09	1.00000
rad1	1.03375e-09	1.00000	1.03391e-09	1.00000
rad11	8.21121e-10	1.00000	8.21248e-10	1.00000
rad10	8.01392e-10	1.00000	8.01516e-10	1.00000
PhCCCH3+H	5.19376e-10	1.00000	5.19456e-10	1.00000
rad26	3.62312e-10	1.00000	3.62368e-10	1.00000
PAH9+H	2.42279e-10	1.00000	2.42317e-10	1.00000
rad35	2.13483e-10	1.00000	2.13516e-10	1.00000
rad3	1.02122e-10	1.00000	1.02137e-10	1.00000
rad15	7.83491e-11	1.00000	7.83612e-11	1.00000
rad4	5.26498e-11	1.00000	5.26580e-11	1.00000
rad38	3.38812e-11	1.00000	3.38864e-11	1.00000
rad13	1.89078e-11	1.00000	1.89107e-11	1.00000
rad8	1.84844e-12	1.00000	1.84873e-12	1.00000
Ph+MeAc	1.32247e-12	1.00000	1.32267e-12	1.00000
rad9	4.78889e-13	1.00000	4.78963e-13	1.00000
PAH7+H	2.61002e-13	1.00000	2.61043e-13	1.00000
rad33	3.64336e-14	1.00000	3.64392e-14	1.00000
rad12	2.78525e-14	1.00000	2.78568e-14	1.00000
Ph+Allene	2.66731e-14	1.00000	2.66772e-14	1.00000

rad39	2.11257e-14	1.00000	2.11289e-14	1.00000
rad46	1.26630e-14	1.00000	1.26649e-14	1.00000
rad27	4.00003e-15	1.00000	4.00065e-15	1.00000
rad25	4.83551e-16	1.00000	4.83626e-16	1.00000
rad14	3.32526e-16	1.00000	3.32578e-16	1.00000
rad20	3.17902e-16	1.00000	3.17951e-16	1.00000
rad21	2.02087e-16	1.00000	2.02119e-16	1.00000
rad60syn	9.89773e-17	1.00000	9.89926e-17	1.00000
PhCH2CCH+H	5.05372e-17	1.00000	5.05450e-17	1.00000
rad60anti	1.91539e-17	1.00000	1.91569e-17	1.00000
rad37	1.13906e-17	1.00000	1.13924e-17	1.00000
rad18	1.43786e-18	1.00000	1.43808e-18	1.00000
rad23	9.66299e-19	1.00000	9.66448e-19	1.00000
rad31	4.64688e-19	1.00000	4.64760e-19	1.00000
rad22	1.01974e-19	1.00000	1.01990e-19	1.00000
rad5	8.38208e-20	1.00000	8.38338e-20	1.00000
PAH3+H	1.05456e-20	1.00000	1.05472e-20	1.00000
rad45	7.69723e-21	1.00000	7.69842e-21	1.00000
rad59	3.92886e-21	1.00000	3.92946e-21	1.00000
rad36	4.81051e-22	1.00000	4.81125e-22	1.00000
rad50	2.28898e-22	1.00000	2.28933e-22	1.00000
rad24	2.47593e-23	1.00000	2.47631e-23	1.00000
rad19syn	1.82536e-24	1.00000	1.82564e-24	1.00000
rad54	1.37160e-26	1.00000	1.37181e-26	1.00000
PAH10+CH3	9.40141e-27	1.00000	9.40285e-27	1.00000
rad52	4.44081e-27	1.00000	4.44149e-27	1.00000
rad43	2.30282e-27	1.00000	2.30317e-27	1.00000
rad62	2.68734e-28	1.00000	2.68776e-28	1.00000
rad51	1.45636e-29	1.00000	1.45659e-29	1.00000
rad65	1.67715e-32	1.00000	1.67740e-32	1.00000
rad70	1.91801e-36	1.00000	1.91830e-36	1.00000
PhcycC3H3_A+H	9.56224e-37	1.00000	9.56371e-37	1.00000
rad55	5.03068e-37	1.00000	5.03145e-37	1.00000
rad58	3.68354e-40	1.00000	3.68411e-40	1.00000
PAH1+H	2.10572e-41	1.00000	2.10605e-41	1.00000
rad34	2.01374e-43	1.00000	2.01405e-43	1.00000
rad42	6.99850e-46	1.00000	6.99958e-46	1.00000
rad41	4.82528e-46	1.00000	4.82602e-46	1.00000
rad47	4.79948e-53	1.00000	4.80022e-53	1.00000

0.100000000E-05 Pa, 210.000000 K

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

Total | 8.30956e-27 (1.00) | 8.30794e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999766	0.999766	0.999961	0.999961
Benzyl+C2H2	0.000195492	0.999961	0.00000	0.999961
rad6	3.87528e-05	1.00000	3.87604e-05	1.000000
rad2	1.31572e-08	1.00000	1.31598e-08	1.000000
PhCCH+CH3	3.08068e-09	1.00000	3.08129e-09	1.000000
PhCHCCH2+H	3.06933e-09	1.00000	3.06993e-09	1.000000
rad7	2.87921e-09	1.00000	2.87977e-09	1.000000
rad28	2.71152e-09	1.00000	2.71205e-09	1.000000
rad30	2.20827e-09	1.00000	2.20870e-09	1.000000
PhCCCH3+H	1.15996e-09	1.00000	1.16018e-09	1.000000
rad1	9.01650e-10	1.00000	9.01826e-10	1.000000
rad11	7.07612e-10	1.00000	7.07750e-10	1.000000
rad10	6.93711e-10	1.00000	6.93846e-10	1.000000
rad26	4.19758e-10	1.00000	4.19841e-10	1.000000
PAH9+H	3.39682e-10	1.00000	3.39748e-10	1.000000
rad35	2.84852e-10	1.00000	2.84908e-10	1.000000
rad15	1.39184e-10	1.00000	1.39211e-10	1.000000
rad3	8.83547e-11	1.00000	8.83720e-11	1.000000
rad38	5.12398e-11	1.00000	5.12499e-11	1.000000
rad4	4.56608e-11	1.00000	4.56698e-11	1.000000
rad13	1.63122e-11	1.00000	1.63154e-11	1.000000
rad8	4.75554e-12	1.00000	4.75647e-12	1.000000
Ph+MeAc	4.47957e-12	1.00000	4.48045e-12	1.000000
rad9	1.38701e-12	1.00000	1.38728e-12	1.000000
PAH7+H	7.72460e-13	1.00000	7.72611e-13	1.000000
Ph+Allene	1.06195e-13	1.00000	1.06216e-13	1.000000
rad12	8.36946e-14	1.00000	8.37110e-14	1.000000
rad39	6.98962e-14	1.00000	6.99099e-14	1.000000
rad33	3.14949e-14	1.00000	3.15011e-14	1.000000
rad46	2.89983e-14	1.00000	2.90039e-14	1.000000
rad27	4.23177e-15	1.00000	4.23260e-15	1.000000
rad25	6.18013e-16	1.00000	6.18134e-16	1.000000

rad14	4.49111e-16	1.00000	4.49198e-16	1.000000
rad60syn	3.56772e-16	1.00000	3.56842e-16	1.000000
rad20	2.87772e-16	1.00000	2.87829e-16	1.000000
PhCH2CCH+H	2.77781e-16	1.00000	2.77836e-16	1.000000
rad21	1.83317e-16	1.00000	1.83353e-16	1.000000
rad60anti	7.46102e-17	1.00000	7.46248e-17	1.000000
rad37	5.82772e-17	1.00000	5.82886e-17	1.000000
rad18	1.28959e-18	1.00000	1.28985e-18	1.000000
rad23	1.12946e-18	1.00000	1.12968e-18	1.000000
rad5	4.94750e-19	1.00000	4.94847e-19	1.000000
rad31	4.31423e-19	1.00000	4.31507e-19	1.000000
rad22	9.02409e-20	1.00000	9.02586e-20	1.000000
PAH3+H	6.92409e-20	1.00000	6.92544e-20	1.000000
rad59	2.51009e-20	1.00000	2.51058e-20	1.000000
rad45	9.60173e-21	1.00000	9.60361e-21	1.000000
rad50	1.46375e-21	1.00000	1.46404e-21	1.000000
rad36	6.01612e-22	1.00000	6.01730e-22	1.000000
rad24	2.50871e-23	1.00000	2.50920e-23	1.000000
rad19syn	2.00816e-23	1.00000	2.00855e-23	1.000000
rad54	1.94321e-25	1.00000	1.94359e-25	1.000000
PAH10+CH3	1.33348e-25	1.00000	1.33374e-25	1.000000
rad52	4.73526e-26	1.00000	4.73619e-26	1.000000
rad43	3.24698e-26	1.00000	3.24761e-26	1.000000
rad62	4.87673e-27	1.00000	4.87768e-27	1.000000
rad51	2.76098e-28	1.00000	2.76152e-28	1.000000
rad70	4.15016e-29	1.00000	4.15097e-29	1.000000
PhcycC3H3_A+H	3.67776e-29	1.00000	3.67847e-29	1.000000
rad55	1.45177e-29	1.00000	1.45206e-29	1.000000
rad58	1.88404e-30	1.00000	1.88441e-30	1.000000
rad65	8.86433e-31	1.00000	8.86607e-31	1.000000
PAH1+H	5.49758e-38	1.00000	5.49865e-38	1.000000
rad34	5.07925e-40	1.00000	5.08025e-40	1.000000
rad42	2.00302e-43	1.00000	2.00341e-43	1.000000
rad41	9.12518e-44	1.00000	9.12696e-44	1.000000
rad47	4.20710e-50	1.00000	4.20792e-50	1.000000

0.100000000E-05 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.40057e-26 (1.00)	3.39973e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999720	0.999720	0.999967	0.999967
Benzyl+C2H2	0.000247073	0.999967	0.00000	0.999967
rad6	3.30975e-05	1.00000	3.31057e-05	1.00000
rad2	1.12679e-08	1.00000	1.12707e-08	1.00000
PhCCH+CH3	6.42448e-09	1.00000	6.42607e-09	1.00000
PhCHCCH2+H	5.97625e-09	1.00000	5.97773e-09	1.00000
rad30	3.30401e-09	1.00000	3.30483e-09	1.00000
rad28	3.04503e-09	1.00000	3.04578e-09	1.00000
rad7	2.46479e-09	1.00000	2.46540e-09	1.00000
PhCCCH3+H	2.42916e-09	1.00000	2.42976e-09	1.00000
rad1	7.79262e-10	1.00000	7.79455e-10	1.00000
rad11	6.06075e-10	1.00000	6.06225e-10	1.00000
rad10	5.96182e-10	1.00000	5.96330e-10	1.00000
PAH9+H	4.73177e-10	1.00000	4.73294e-10	1.00000
rad26	4.69738e-10	1.00000	4.69854e-10	1.00000
rad35	3.78945e-10	1.00000	3.79038e-10	1.00000
rad15	2.37236e-10	1.00000	2.37295e-10	1.00000
rad38	7.63503e-11	1.00000	7.63692e-11	1.00000
rad3	7.61821e-11	1.00000	7.62010e-11	1.00000
rad4	3.94725e-11	1.00000	3.94822e-11	1.00000
rad13	1.39880e-11	1.00000	1.39914e-11	1.00000
Ph+MeAc	1.36460e-11	1.00000	1.36493e-11	1.00000
rad8	1.12939e-11	1.00000	1.12967e-11	1.00000
rad9	3.66808e-12	1.00000	3.66899e-12	1.00000
PAH7+H	2.08257e-12	1.00000	2.08309e-12	1.00000
Ph+Allene	3.75331e-13	1.00000	3.75424e-13	1.00000
rad12	2.28067e-13	1.00000	2.28123e-13	1.00000
rad39	2.08504e-13	1.00000	2.08556e-13	1.00000
rad46	6.24889e-14	1.00000	6.25044e-14	1.00000
rad33	2.70646e-14	1.00000	2.70712e-14	1.00000
rad27	4.36516e-15	1.00000	4.36624e-15	1.00000
PhCH2CCH+H	1.31490e-15	1.00000	1.31523e-15	1.00000
rad60syn	1.14776e-15	1.00000	1.14805e-15	1.00000
rad25	7.56577e-16	1.00000	7.56764e-16	1.00000
rad14	5.77996e-16	1.00000	5.78139e-16	1.00000
rad20	2.61006e-16	1.00000	2.61070e-16	1.00000

rad60anti	2.57260e-16	1.00000	2.57324e-16	1.00000
rad37	2.55026e-16	1.00000	2.55089e-16	1.00000
rad21	1.66639e-16	1.00000	1.66680e-16	1.00000
rad5	2.48666e-18	1.00000	2.48727e-18	1.00000
rad23	1.38736e-18	1.00000	1.38770e-18	1.00000
rad18	1.15759e-18	1.00000	1.15787e-18	1.00000
rad31	4.01051e-19	1.00000	4.01150e-19	1.00000
PAH3+H	3.84313e-19	1.00000	3.84408e-19	1.00000
rad59	1.35685e-19	1.00000	1.35719e-19	1.00000
rad22	7.99009e-20	1.00000	7.99206e-20	1.00000
rad45	1.25183e-20	1.00000	1.25214e-20	1.00000
rad50	7.96593e-21	1.00000	7.96790e-21	1.00000
rad36	7.86705e-22	1.00000	7.86899e-22	1.00000
rad19syn	1.76808e-22	1.00000	1.76852e-22	1.00000
rad24	2.55719e-23	1.00000	2.55782e-23	1.00000
rad54	2.07924e-24	1.00000	2.07976e-24	1.00000
PAH10+CH3	1.42537e-24	1.00000	1.42572e-24	1.00000
rad52	4.06722e-25	1.00000	4.06823e-25	1.00000
rad43	3.45423e-25	1.00000	3.45508e-25	1.00000
rad62	5.97331e-26	1.00000	5.97479e-26	1.00000
rad51	3.50353e-27	1.00000	3.50440e-27	1.00000
PhcycC3H3_A+H	9.87083e-28	1.00000	9.87327e-28	1.00000
rad70	8.97427e-28	1.00000	8.97648e-28	1.00000
rad55	3.38158e-28	1.00000	3.38242e-28	1.00000
rad58	5.59629e-29	1.00000	5.59767e-29	1.00000
rad65	1.55276e-29	1.00000	1.55314e-29	1.00000
PAH1+H	3.10930e-30	1.00000	3.11007e-30	1.00000
rad34	2.04139e-37	1.00000	2.04190e-37	1.00000
rad42	4.73511e-41	1.00000	4.73628e-41	1.00000
rad47	1.49504e-41	1.00000	1.49541e-41	1.00000
rad41	1.11523e-41	1.00000	1.11551e-41	1.00000

0.100000000E-05 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22933e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999661	0.999661	0.999972	0.999972
Benzyl+C2H2	0.000310798	0.999972	0.00000	0.999972
rad6	2.81038e-05	1.000000	2.81125e-05	1.00000
PhCCH+CH3	1.26970e-08	1.000000	1.27009e-08	1.00000
PhCHCCH2+H	1.11024e-08	1.000000	1.11059e-08	1.00000
rad2	9.61670e-09	1.000000	9.61969e-09	1.00000
rad30	4.83583e-09	1.000000	4.83733e-09	1.00000
PhCCCH3+H	4.80870e-09	1.000000	4.81019e-09	1.00000
rad28	3.31682e-09	1.000000	3.31785e-09	1.00000
rad7	2.09795e-09	1.000000	2.09860e-09	1.00000
rad1	6.71677e-10	1.000000	6.71886e-10	1.00000
PAH9+H	6.55018e-10	1.000000	6.55221e-10	1.00000
rad11	5.16152e-10	1.000000	5.16312e-10	1.00000
rad26	5.09953e-10	1.000000	5.10112e-10	1.00000
rad10	5.09042e-10	1.000000	5.09200e-10	1.00000
rad35	5.02418e-10	1.000000	5.02574e-10	1.00000
rad15	3.90190e-10	1.000000	3.90311e-10	1.00000
rad38	1.12256e-10	1.000000	1.12291e-10	1.00000
rad3	6.52178e-11	1.000000	6.52381e-11	1.00000
Ph+MeAc	3.78935e-11	1.000000	3.79052e-11	1.00000
rad4	3.38871e-11	1.000000	3.38976e-11	1.00000
rad8	2.50216e-11	1.000000	2.50294e-11	1.00000
rad13	1.19273e-11	1.000000	1.19310e-11	1.00000
rad9	8.96409e-12	1.000000	8.96688e-12	1.00000
PAH7+H	5.17926e-12	1.000000	5.18087e-12	1.00000
Ph+Allene	1.19611e-12	1.000000	1.19648e-12	1.00000
rad12	5.70855e-13	1.000000	5.71033e-13	1.00000
rad39	5.68451e-13	1.000000	5.68628e-13	1.00000
rad46	1.27780e-13	1.000000	1.27820e-13	1.00000
rad33	2.31293e-14	1.000000	2.31365e-14	1.00000
PhCH2CCH+H	5.46575e-15	1.000000	5.46744e-15	1.00000
rad27	4.40409e-15	1.000000	4.40546e-15	1.00000
rad60syn	3.34627e-15	1.000000	3.34731e-15	1.00000
rad37	9.74485e-16	1.000000	9.74788e-16	1.00000
rad25	8.92044e-16	1.000000	8.92321e-16	1.00000
rad60anti	7.98155e-16	1.000000	7.98403e-16	1.00000
rad14	7.13199e-16	1.000000	7.13421e-16	1.00000
rad20	2.37183e-16	1.000000	2.37257e-16	1.00000
rad21	1.51794e-16	1.000000	1.51842e-16	1.00000
rad5	1.08659e-17	1.000000	1.08693e-17	1.00000

PAH3+H	1.84375e-18	1.000000	1.84433e-18	1.00000
rad23	1.78722e-18	1.000000	1.78778e-18	1.00000
rad18	1.03986e-18	1.000000	1.04018e-18	1.00000
rad59	6.34526e-19	1.000000	6.34723e-19	1.00000
rad31	3.73694e-19	1.000000	3.73810e-19	1.00000
rad22	7.07734e-20	1.000000	7.07954e-20	1.00000
rad50	3.76905e-20	1.000000	3.77022e-20	1.00000
rad45	1.73455e-20	1.000000	1.73508e-20	1.00000
rad19syn	1.28689e-21	1.000000	1.28729e-21	1.00000
rad36	1.09385e-21	1.000000	1.09419e-21	1.00000
rad24	2.62259e-23	1.000000	2.62340e-23	1.00000
rad54	1.79673e-23	1.000000	1.79729e-23	1.00000
PAH10+CH3	1.22748e-23	1.000000	1.22786e-23	1.00000
rad43	2.95795e-24	1.000000	2.95886e-24	1.00000
rad52	2.90478e-24	1.000000	2.90569e-24	1.00000
rad62	5.74609e-25	1.000000	5.74787e-25	1.00000
rad51	3.51924e-26	1.000000	3.52033e-26	1.00000
PhcycC3H3_A+H	1.69392e-26	1.000000	1.69445e-26	1.00000
rad70	1.30480e-26	1.000000	1.30521e-26	1.00000
rad55	5.18384e-27	1.000000	5.18545e-27	1.00000
rad58	1.02415e-27	1.000000	1.02446e-27	1.00000
PAH1+H	2.23670e-28	1.000000	2.23740e-28	1.00000
rad65	2.00231e-28	1.000000	2.00293e-28	1.00000
rad34	1.06743e-29	1.000000	1.06777e-29	1.00000
rad42	4.44131e-32	1.000000	4.44269e-32	1.00000
rad41	7.74433e-33	1.000000	7.74673e-33	1.00000
rad47	2.02044e-40	1.000000	2.02107e-40	1.00000

0.100000000E-05 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.98936e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999587	0.999587	0.999976	0.999976
Benzyl+C2H2	0.000389079	0.999976	0.00000	0.999976
rad6	2.37344e-05	1.000000	2.37436e-05	1.000000
PhCCH+CH3	2.39311e-08	1.000000	2.39404e-08	1.000000
PhCHCCH2+H	1.97866e-08	1.000000	1.97943e-08	1.000000
PhCCCH3+H	9.05845e-09	1.000000	9.06198e-09	1.000000
rad2	8.16671e-09	1.000000	8.16989e-09	1.000000
rad30	6.94249e-09	1.000000	6.94519e-09	1.000000
rad28	3.51690e-09	1.000000	3.51827e-09	1.000000
rad7	1.77618e-09	1.000000	1.77687e-09	1.000000
PAH9+H	9.01150e-10	1.000000	9.01501e-10	1.000000
rad35	6.63648e-10	1.000000	6.63906e-10	1.000000
rad15	6.22128e-10	1.000000	6.22370e-10	1.000000
rad1	5.76530e-10	1.000000	5.76755e-10	1.000000
rad26	5.39007e-10	1.000000	5.39217e-10	1.000000
rad11	4.37235e-10	1.000000	4.37406e-10	1.000000
rad10	4.34049e-10	1.000000	4.34218e-10	1.000000
rad38	1.63043e-10	1.000000	1.63107e-10	1.000000
Ph+MeAc	9.70080e-11	1.000000	9.70458e-11	1.000000
rad3	5.49869e-11	1.000000	5.50083e-11	1.000000
rad8	5.21675e-11	1.000000	5.21878e-11	1.000000
rad4	2.86588e-11	1.000000	2.86700e-11	1.000000
rad9	2.04454e-11	1.000000	2.04534e-11	1.000000
PAH7+H	1.20057e-11	1.000000	1.20104e-11	1.000000
rad13	1.01169e-11	1.000000	1.01208e-11	1.000000
Ph+Allene	3.48182e-12	1.000000	3.48318e-12	1.000000
rad39	1.43248e-12	1.000000	1.43304e-12	1.000000
rad12	1.32650e-12	1.000000	1.32701e-12	1.000000
rad46	2.49643e-13	1.000000	2.49741e-13	1.000000
PhCH2CCH+H	2.02777e-14	1.000000	2.02856e-14	1.000000
rad33	1.96653e-14	1.000000	1.96730e-14	1.000000
rad60syn	8.95435e-15	1.000000	8.95784e-15	1.000000
rad27	4.35744e-15	1.000000	4.35914e-15	1.000000
rad37	3.30791e-15	1.000000	3.30920e-15	1.000000
rad60anti	2.25867e-15	1.000000	2.25955e-15	1.000000
rad25	1.01761e-15	1.000000	1.01801e-15	1.000000
rad14	8.48089e-16	1.000000	8.48419e-16	1.000000
rad20	2.15951e-16	1.000000	2.16036e-16	1.000000
rad21	1.38564e-16	1.000000	1.38618e-16	1.000000
rad5	4.20006e-17	1.000000	4.20170e-17	1.000000
PAH3+H	7.78863e-18	1.000000	7.79166e-18	1.000000
rad59	2.61499e-18	1.000000	2.61601e-18	1.000000
rad23	2.40736e-18	1.000000	2.40830e-18	1.000000
rad18	9.34758e-19	1.000000	9.35122e-19	1.000000

rad31	3.49598e-19	1.000000	3.49734e-19	1.000000
rad50	1.57823e-19	1.000000	1.57884e-19	1.000000
rad22	6.27076e-20	1.000000	6.27320e-20	1.000000
rad45	2.51930e-20	1.000000	2.52028e-20	1.000000
rad19syn	7.93170e-21	1.000000	7.93479e-21	1.000000
rad36	1.59505e-21	1.000000	1.59567e-21	1.000000
rad54	1.28743e-22	1.000000	1.28794e-22	1.000000
PAH10+CH3	8.76229e-23	1.000000	8.76570e-23	1.000000
rad24	2.70664e-23	1.000000	2.70769e-23	1.000000
rad43	2.10009e-23	1.000000	2.10090e-23	1.000000
rad52	1.76521e-23	1.000000	1.76590e-23	1.000000
rad62	4.48333e-24	1.000000	4.48507e-24	1.000000
rad51	2.84575e-25	1.000000	2.84686e-25	1.000000
PhcycC3H3_A+H	1.83497e-25	1.000000	1.83568e-25	1.000000
rad70	1.30436e-25	1.000000	1.30487e-25	1.000000
rad55	5.31870e-26	1.000000	5.32077e-26	1.000000
rad58	1.13976e-26	1.000000	1.14020e-26	1.000000
PAH1+H	3.49022e-27	1.000000	3.49158e-27	1.000000
rad65	1.89688e-27	1.000000	1.89762e-27	1.000000
rad34	2.02063e-28	1.000000	2.02142e-28	1.000000
rad42	2.62674e-30	1.000000	2.62776e-30	1.000000
rad41	7.56115e-31	1.000000	7.56409e-31	1.000000
rad47	1.87587e-39	1.000000	1.87660e-39	1.000000

0.100000000E-05 Pa, 250.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17706e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999495	0.999495	0.999980	0.999980
Benzyl+C2H2	0.000484695	0.999980	0.000000	0.999980
rad6	1.99430e-05	1.000000	1.99527e-05	1.000000
PhCCH+CH3	4.32404e-08	1.000000	4.32614e-08	1.000000
PhCHCCH2+H	3.39821e-08	1.000000	3.39985e-08	1.000000
PhCCCH3+H	1.63287e-08	1.000000	1.63366e-08	1.000000
rad30	9.79753e-09	1.000000	9.80228e-09	1.000000
rad2	6.91820e-09	1.000000	6.92155e-09	1.000000
rad28	3.64099e-09	1.000000	3.64275e-09	1.000000
rad7	1.49628e-09	1.000000	1.49700e-09	1.000000
PAH9+H	1.23216e-09	1.000000	1.23276e-09	1.000000
rad15	9.65233e-10	1.000000	9.65701e-10	1.000000
rad35	8.73105e-10	1.000000	8.73528e-10	1.000000
rad26	5.56383e-10	1.000000	5.56653e-10	1.000000
rad1	4.94055e-10	1.000000	4.94294e-10	1.000000
rad11	3.68551e-10	1.000000	3.68730e-10	1.000000
rad10	3.67466e-10	1.000000	3.67645e-10	1.000000
rad38	2.34140e-10	1.000000	2.34254e-10	1.000000
Ph+MeAc	2.31120e-10	1.000000	2.31232e-10	1.000000
rad8	1.03099e-10	1.000000	1.03149e-10	1.000000
rad3	4.66567e-11	1.000000	4.66794e-11	1.000000
rad9	4.38853e-11	1.000000	4.39065e-11	1.000000
PAH7+H	2.61651e-11	1.000000	2.61778e-11	1.000000
rad4	2.43982e-11	1.000000	2.44100e-11	1.000000
Ph+Allene	9.35927e-12	1.000000	9.36381e-12	1.000000
rad13	8.53933e-12	1.000000	8.54348e-12	1.000000
rad39	3.36826e-12	1.000000	3.36990e-12	1.000000
rad12	2.88708e-12	1.000000	2.88848e-12	1.000000
rad46	4.68608e-13	1.000000	4.68835e-13	1.000000
PhCH2CCH+H	6.80638e-14	1.000000	6.80968e-14	1.000000
rad60syn	2.22273e-14	1.000000	2.22381e-14	1.000000
rad33	1.66409e-14	1.000000	1.66490e-14	1.000000
rad37	1.01206e-14	1.000000	1.01255e-14	1.000000
rad60anti	5.89685e-15	1.000000	5.89971e-15	1.000000
rad27	4.23732e-15	1.000000	4.23938e-15	1.000000
rad25	1.12750e-15	1.000000	1.12804e-15	1.000000
rad14	9.76098e-16	1.000000	9.76571e-16	1.000000
rad20	1.97012e-16	1.000000	1.97107e-16	1.000000
rad5	1.45713e-16	1.000000	1.45784e-16	1.000000
rad21	1.26762e-16	1.000000	1.26823e-16	1.000000
PAH3+H	2.94243e-17	1.000000	2.94386e-17	1.000000
rad59	9.64551e-18	1.000000	9.65019e-18	1.000000
rad23	3.37954e-18	1.000000	3.38118e-18	1.000000
rad18	8.40853e-19	1.000000	8.41261e-19	1.000000
rad50	5.93639e-19	1.000000	5.93926e-19	1.000000
rad31	3.28562e-19	1.000000	3.28721e-19	1.000000
rad22	5.55760e-20	1.000000	5.56030e-20	1.000000
rad19syn	4.22761e-20	1.000000	4.22966e-20	1.000000

rad45	3.85210e-20	1.000000	3.85397e-20	1.00000
rad36	2.44988e-21	1.000000	2.45107e-21	1.00000
rad54	7.86764e-22	1.000000	7.87146e-22	1.00000
PAH10+CH3	5.33108e-22	1.000000	5.33367e-22	1.00000
rad43	1.27025e-22	1.000000	1.27087e-22	1.00000
rad52	9.31755e-23	1.000000	9.32207e-23	1.00000
rad62	2.94965e-23	1.000000	2.95108e-23	1.00000
rad24	2.81166e-23	1.000000	2.81302e-23	1.00000
rad51	1.93290e-24	1.000000	1.93384e-24	1.00000
PhcycC3H3_A+H	1.51485e-24	1.000000	1.51558e-24	1.00000
rad70	1.03242e-24	1.000000	1.03292e-24	1.00000
rad55	4.27162e-25	1.000000	4.27369e-25	1.00000
rad58	9.52951e-26	1.000000	9.53413e-26	1.00000
PAH1+H	3.26070e-26	1.000000	3.26228e-26	1.00000
rad65	1.44854e-26	1.000000	1.44924e-26	1.00000
rad34	1.95407e-27	1.000000	1.95502e-27	1.00000
rad42	2.76646e-29	1.000000	2.76780e-29	1.00000
rad41	8.02597e-30	1.000000	8.02986e-30	1.00000
rad47	1.43631e-38	1.000000	1.43700e-38	1.00000

0.100000000E-05 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19260e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999382	0.999382	0.999983	0.999983
Benzyl+C2H2	0.000600824	0.999983	0.00000	0.999983
rad6	1.66783e-05	1.000000	1.66883e-05	1.000000
PhCCH+CH3	7.52300e-08	1.000000	7.52752e-08	1.000000
PhCHCCH2+H	5.64542e-08	1.000000	5.64881e-08	1.000000
PhCCCH3+H	2.82974e-08	1.000000	2.83144e-08	1.000000
rad30	1.36156e-08	1.000000	1.36238e-08	1.000000
rad2	5.82777e-09	1.000000	5.83128e-09	1.000000
rad28	3.68999e-09	1.000000	3.69221e-09	1.000000
PAH9+H	1.67443e-09	1.000000	1.67543e-09	1.000000
rad15	1.46180e-09	1.000000	1.46267e-09	1.000000
rad7	1.25464e-09	1.000000	1.25540e-09	1.000000
rad35	1.14378e-09	1.000000	1.14447e-09	1.000000
rad26	5.62340e-10	1.000000	5.62678e-10	1.000000
Ph+MeAc	5.16556e-10	1.000000	5.16866e-10	1.000000
rad1	4.21385e-10	1.000000	4.21638e-10	1.000000
rad38	3.32691e-10	1.000000	3.32891e-10	1.000000
rad10	3.10340e-10	1.000000	3.10527e-10	1.000000
rad11	3.09225e-10	1.000000	3.09411e-10	1.000000
rad8	1.94326e-10	1.000000	1.94443e-10	1.000000
rad9	8.92712e-11	1.000000	8.93249e-11	1.000000
PAH7+H	5.40036e-11	1.000000	5.40361e-11	1.000000
rad3	3.95730e-11	1.000000	3.95968e-11	1.000000
Ph+Allene	2.34456e-11	1.000000	2.34597e-11	1.000000
rad4	2.07685e-11	1.000000	2.07809e-11	1.000000
rad39	7.44920e-12	1.000000	7.45367e-12	1.000000
rad13	7.17512e-12	1.000000	7.17944e-12	1.000000
rad12	5.92959e-12	1.000000	5.93315e-12	1.000000
rad46	8.49078e-13	1.000000	8.49589e-13	1.000000
PhCH2CCH+H	2.09095e-13	1.000000	2.09221e-13	1.000000
rad60syn	5.16426e-14	1.000000	5.16736e-14	1.000000
rad37	2.82519e-14	1.000000	2.82689e-14	1.000000
rad60anti	1.43406e-14	1.000000	1.43492e-14	1.000000
rad33	1.40201e-14	1.000000	1.40285e-14	1.000000
rad27	4.05754e-15	1.000000	4.05998e-15	1.000000
rad25	1.21733e-15	1.000000	1.21806e-15	1.000000
rad14	1.09135e-15	1.000000	1.09200e-15	1.000000
rad5	4.59346e-16	1.000000	4.59622e-16	1.000000
rad20	1.80107e-16	1.000000	1.80215e-16	1.000000
rad21	1.16229e-16	1.000000	1.16299e-16	1.000000
PAH3+H	1.00724e-16	1.000000	1.00784e-16	1.000000
rad59	3.22623e-17	1.000000	3.22817e-17	1.000000
rad23	4.92786e-18	1.000000	4.93082e-18	1.000000
rad50	2.03113e-18	1.000000	2.03235e-18	1.000000
rad18	7.56915e-19	1.000000	7.57371e-19	1.000000
rad31	3.10687e-19	1.000000	3.10873e-19	1.000000
rad19syn	1.98204e-19	1.000000	1.98323e-19	1.000000
rad45	6.14440e-20	1.000000	6.14810e-20	1.000000
rad22	4.92701e-20	1.000000	4.92997e-20	1.000000
rad54	4.18281e-21	1.000000	4.18532e-21	1.000000
rad36	3.92759e-21	1.000000	3.92995e-21	1.000000
PAH10+CH3	2.81839e-21	1.000000	2.82008e-21	1.000000

rad43	6.67186e-22	1.000000	6.67587e-22	1.000000
rad52	4.34411e-22	1.000000	4.34672e-22	1.000000
rad62	1.67394e-22	1.000000	1.67495e-22	1.000000
rad24	2.94063e-23	1.000000	2.94239e-23	1.000000
rad51	1.13377e-23	1.000000	1.13445e-23	1.000000
PhcycC3H3_A+H	1.04989e-23	1.000000	1.05052e-23	1.000000
rad70	6.90236e-24	1.000000	6.90651e-24	1.000000
rad55	2.89213e-24	1.000000	2.89387e-24	1.000000
rad58	6.67420e-25	1.000000	6.67822e-25	1.000000
PAH1+H	2.48959e-25	1.000000	2.49109e-25	1.000000
rad65	9.40612e-26	1.000000	9.41178e-26	1.000000
rad34	1.53045e-26	1.000000	1.53137e-26	1.000000
rad42	2.29633e-28	1.000000	2.29771e-28	1.000000
rad41	6.71431e-29	1.000000	6.71835e-29	1.000000
rad47	9.26851e-38	1.000000	9.27408e-38	1.000000

0.100000000E-05 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.03545e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999245	0.999245	0.999986	0.999986
Benzyl+C2H2	0.000741072	0.999986	0.00000	0.999986
rad6	1.38867e-05	1.000000	1.38970e-05	1.000000
PhCCH+CH3	1.26496e-07	1.000000	1.26589e-07	1.000000
PhCHCCH2+H	9.10112e-08	1.000000	9.10787e-08	1.000000
PhCCCH3+H	4.73318e-08	1.000000	4.73669e-08	1.000000
rad30	1.86594e-08	1.000000	1.86733e-08	1.000000
rad2	4.86524e-09	1.000000	4.86885e-09	1.000000
rad28	3.66897e-09	1.000000	3.67169e-09	1.000000
PAH9+H	2.26147e-09	1.000000	2.26315e-09	1.000000
rad15	2.16654e-09	1.000000	2.16814e-09	1.000000
rad35	1.49170e-09	1.000000	1.49281e-09	1.000000
Ph+MeAc	1.09043e-09	1.000000	1.09124e-09	1.000000
rad7	1.04750e-09	1.000000	1.04827e-09	1.000000
rad26	5.57749e-10	1.000000	5.58163e-10	1.000000
rad38	4.68005e-10	1.000000	4.68352e-10	1.000000
rad1	3.56516e-10	1.000000	3.56781e-10	1.000000
rad8	3.51124e-10	1.000000	3.51384e-10	1.000000
rad10	2.60866e-10	1.000000	2.61059e-10	1.000000
rad11	2.58338e-10	1.000000	2.58530e-10	1.000000
rad9	1.73122e-10	1.000000	1.73250e-10	1.000000
PAH7+H	1.06207e-10	1.000000	1.06286e-10	1.000000
Ph+Allene	5.51635e-11	1.000000	5.52044e-11	1.000000
rad3	3.29876e-11	1.000000	3.30121e-11	1.000000
rad4	1.73797e-11	1.000000	1.73926e-11	1.000000
rad39	1.56005e-11	1.000000	1.56121e-11	1.000000
rad12	1.15650e-11	1.000000	1.15736e-11	1.000000
rad13	6.00352e-12	1.000000	6.00797e-12	1.000000
rad46	1.49078e-12	1.000000	1.49189e-12	1.000000
PhCH2CCH+H	5.93683e-13	1.000000	5.94123e-13	1.000000
rad60syn	1.13161e-13	1.000000	1.13244e-13	1.000000
rad37	7.27126e-14	1.000000	7.27665e-14	1.000000
rad60anti	3.27522e-14	1.000000	3.27765e-14	1.000000
rad33	1.17644e-14	1.000000	1.17731e-14	1.000000
rad27	3.83230e-15	1.000000	3.83514e-15	1.000000
rad5	1.32962e-15	1.000000	1.33060e-15	1.000000
rad25	1.28434e-15	1.000000	1.28529e-15	1.000000
rad14	1.18910e-15	1.000000	1.18998e-15	1.000000
PAH3+H	3.15912e-16	1.000000	3.16146e-16	1.000000
rad20	1.65014e-16	1.000000	1.65136e-16	1.000000
rad21	1.06829e-16	1.000000	1.06908e-16	1.000000
rad59	9.89462e-17	1.000000	9.90196e-17	1.000000
rad23	7.43988e-18	1.000000	7.44540e-18	1.000000
rad50	6.38912e-18	1.000000	6.39386e-18	1.000000
rad19syn	8.29175e-19	1.000000	8.29790e-19	1.000000
rad18	6.81870e-19	1.000000	6.82375e-19	1.000000
rad31	2.95874e-19	1.000000	2.96094e-19	1.000000
rad45	1.02594e-19	1.000000	1.02670e-19	1.000000
rad22	4.36967e-20	1.000000	4.37291e-20	1.000000
rad54	1.96547e-20	1.000000	1.96693e-20	1.000000
PAH10+CH3	1.31523e-20	1.000000	1.31620e-20	1.000000
rad36	6.59511e-21	1.000000	6.60000e-21	1.000000
rad43	3.09129e-21	1.000000	3.09358e-21	1.000000
rad52	1.81421e-21	1.000000	1.81555e-21	1.000000
rad62	8.33485e-22	1.000000	8.34104e-22	1.000000
PhcycC3H3_A+H	6.28439e-23	1.000000	6.28905e-23	1.000000

rad51	5.84528e-23	1.00000	5.84962e-23	1.00000
rad70	3.99451e-23	1.00000	3.99748e-23	1.00000
rad24	3.09736e-23	1.00000	3.09966e-23	1.00000
rad55	1.69373e-23	1.00000	1.69499e-23	1.00000
rad58	4.03354e-24	1.00000	4.03653e-24	1.00000
PAH1+H	1.62733e-24	1.00000	1.62853e-24	1.00000
rad65	5.31208e-25	1.00000	5.31602e-25	1.00000
rad34	1.02480e-25	1.00000	1.02556e-25	1.00000
rad42	1.63124e-27	1.00000	1.63245e-27	1.00000
rad41	4.81361e-28	1.00000	4.81718e-28	1.00000
rad47	5.14497e-37	1.00000	5.14878e-37	1.00000

0.100000000E-05 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89185e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999079	0.999079	0.999988	0.999988
Benzyl+C2H2	0.000909501	0.999989	0.00000	0.999988
rad6	1.15152e-05	1.00000	1.15257e-05	1.000000
PhCCH+CH3	2.06213e-07	1.00000	2.06401e-07	1.000000
PhCHCCH2+H	1.42765e-07	1.00000	1.42895e-07	1.000000
PhCCCH3+H	7.66708e-08	1.00000	7.67406e-08	1.000000
rad30	2.52474e-08	1.00000	2.52704e-08	1.000000
rad2	4.07966e-09	1.00000	4.08338e-09	1.000000
rad28	3.58602e-09	1.00000	3.58929e-09	1.000000
rad15	3.14925e-09	1.00000	3.15212e-09	1.000000
PAH9+H	3.03556e-09	1.00000	3.03833e-09	1.000000
Ph+MeAc	2.18677e-09	1.00000	2.18876e-09	1.000000
rad35	1.93646e-09	1.00000	1.93823e-09	1.000000
rad7	8.71051e-10	1.00000	8.71844e-10	1.000000
rad38	6.52105e-10	1.00000	6.52699e-10	1.000000
rad8	6.10868e-10	1.00000	6.11424e-10	1.000000
rad26	5.43913e-10	1.00000	5.44409e-10	1.000000
rad9	3.21687e-10	1.00000	3.21980e-10	1.000000
rad1	3.03263e-10	1.00000	3.03539e-10	1.000000
rad10	2.18713e-10	1.00000	2.18912e-10	1.000000
rad11	2.14969e-10	1.00000	2.15164e-10	1.000000
PAH7+H	2.00067e-10	1.00000	2.00249e-10	1.000000
Ph+Allene	1.22717e-10	1.00000	1.22828e-10	1.000000
rad39	3.11176e-11	1.00000	3.11459e-11	1.000000
rad3	2.77649e-11	1.00000	2.77902e-11	1.000000
rad12	2.15358e-11	1.00000	2.15554e-11	1.000000
rad4	1.46893e-11	1.00000	1.47027e-11	1.000000
rad13	5.00369e-12	1.00000	5.00824e-12	1.000000
rad46	2.54457e-12	1.00000	2.54688e-12	1.000000
PhCH2CCH+H	1.57104e-12	1.00000	1.57247e-12	1.000000
rad60syn	2.35373e-13	1.00000	2.35588e-13	1.000000
rad37	1.74088e-13	1.00000	1.74247e-13	1.000000
rad60anti	7.07396e-14	1.00000	7.08039e-14	1.000000
rad33	9.83508e-15	1.00000	9.84403e-15	1.000000
rad27	3.57518e-15	1.00000	3.57843e-15	1.000000
rad5	3.56581e-15	1.00000	3.56906e-15	1.000000
rad25	1.32734e-15	1.00000	1.32855e-15	1.000000
rad14	1.26599e-15	1.00000	1.26714e-15	1.000000
PAH3+H	9.16507e-16	1.00000	9.17341e-16	1.000000
rad59	2.80900e-16	1.00000	2.81155e-16	1.000000
rad20	1.51540e-16	1.00000	1.51678e-16	1.000000
rad21	9.84410e-17	1.00000	9.85307e-17	1.000000
rad50	1.86453e-17	1.00000	1.86623e-17	1.000000
rad23	1.15940e-17	1.00000	1.16046e-17	1.000000
rad19syn	3.13291e-18	1.00000	3.13576e-18	1.000000
rad18	6.14769e-19	1.00000	6.15329e-19	1.000000
rad31	2.84108e-19	1.00000	2.84367e-19	1.000000
rad45	1.77643e-19	1.00000	1.77805e-19	1.000000
rad54	8.26761e-20	1.00000	8.27513e-20	1.000000
PAH10+CH3	5.48808e-20	1.00000	5.49308e-20	1.000000
rad22	3.87763e-20	1.00000	3.88116e-20	1.000000
rad43	1.28005e-20	1.00000	1.28122e-20	1.000000
rad36	1.14913e-20	1.00000	1.15018e-20	1.000000
rad52	6.86644e-21	1.00000	6.87269e-21	1.000000
rad62	3.68997e-21	1.00000	3.69333e-21	1.000000
PhcycC3H3_A+H	3.28880e-22	1.00000	3.29180e-22	1.000000
rad51	2.68189e-22	1.00000	2.68433e-22	1.000000
rad70	2.02730e-22	1.00000	2.02915e-22	1.000000
rad55	8.69006e-23	1.00000	8.69797e-23	1.000000
rad24	3.28667e-23	1.00000	3.28966e-23	1.000000

rad58	2.12890e-23	1.00000	2.13084e-23	1.000000
PAH1+H	9.19439e-24	1.00000	9.20276e-24	1.000000
rad65	2.64204e-24	1.00000	2.64445e-24	1.000000
rad34	5.91305e-25	1.00000	5.91844e-25	1.000000
rad42	9.90723e-27	1.00000	9.91625e-27	1.000000
rad41	2.94681e-27	1.00000	2.94949e-27	1.000000
rad47	2.49702e-36	1.00000	2.49929e-36	1.000000

0.100000000E-05 Pa, 290.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.19549e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998879	0.998879	0.999990	0.999990
Benzyl+C2H2	0.00111066	0.999990	0.00000	0.999990
rad6	9.51234e-06	0.999999	9.52291e-06	1.000000
PhCCH+CH3	3.26808e-07	0.999999	3.27171e-07	1.000000
PhCHCCH2+H	2.18417e-07	1.000000	2.18660e-07	1.000000
PhCCCH3+H	1.20622e-07	1.000000	1.20756e-07	1.000000
rad30	3.37616e-08	1.000000	3.37991e-08	1.000000
rad15	4.49780e-09	1.000000	4.50280e-09	1.000000
Ph+MeAc	4.18703e-09	1.000000	4.19168e-09	1.000000
PAH9+H	4.04962e-09	1.000000	4.05413e-09	1.000000
rad28	3.45112e-09	1.000000	3.45496e-09	1.000000
rad2	3.38497e-09	1.000000	3.38873e-09	1.000000
rad35	2.50192e-09	1.000000	2.50470e-09	1.000000
rad8	1.02712e-09	1.000000	1.02826e-09	1.000000
rad38	9.00374e-10	1.000000	9.01376e-10	1.000000
rad7	7.21639e-10	1.000000	7.22441e-10	1.000000
rad9	5.75231e-10	1.000000	5.75870e-10	1.000000
rad26	5.22395e-10	1.000000	5.22975e-10	1.000000
PAH7+H	3.62593e-10	1.000000	3.62997e-10	1.000000
Ph+Allene	2.59599e-10	1.000000	2.59888e-10	1.000000
rad1	2.55508e-10	1.000000	2.55792e-10	1.000000
rad10	1.82388e-10	1.000000	1.82590e-10	1.000000
rad11	1.78221e-10	1.000000	1.78420e-10	1.000000
rad39	5.94114e-11	1.000000	5.94775e-11	1.000000
rad12	3.84655e-11	1.000000	3.85083e-11	1.000000
rad3	2.32011e-11	1.000000	2.32269e-11	1.000000
rad4	1.23299e-11	1.000000	1.23436e-11	1.000000
rad46	4.23385e-12	1.000000	4.23855e-12	1.000000
rad13	4.15539e-12	1.000000	4.16001e-12	1.000000
PhCH2CCH+H	3.90276e-12	1.000000	3.90710e-12	1.000000
rad60syn	4.67306e-13	1.000000	4.67826e-13	1.000000
rad37	3.90721e-13	1.000000	3.91156e-13	1.000000
rad60anti	1.45354e-13	1.000000	1.45516e-13	1.000000
rad5	8.92887e-15	1.000000	8.93879e-15	1.000000
rad33	8.19426e-15	1.000000	8.20337e-15	1.000000
rad27	3.29852e-15	1.000000	3.30219e-15	1.000000
PAH3+H	2.47956e-15	1.000000	2.48232e-15	1.000000
rad25	1.34657e-15	1.000000	1.34806e-15	1.000000
rad14	1.32015e-15	1.000000	1.32162e-15	1.000000
rad59	7.44181e-16	1.000000	7.45009e-16	1.000000
rad20	1.39514e-16	1.000000	1.39669e-16	1.000000
rad21	9.09611e-17	1.000000	9.10623e-17	1.000000
rad50	5.08734e-17	1.000000	5.09300e-17	1.000000
rad23	1.85923e-17	1.000000	1.86129e-17	1.000000
rad19syn	1.08023e-17	1.000000	1.08143e-17	1.000000
rad18	5.54777e-19	1.000000	5.55394e-19	1.000000
rad45	3.18702e-19	1.000000	3.19056e-19	1.000000
rad54	3.14766e-19	1.000000	3.15116e-19	1.000000
rad31	2.75271e-19	1.000000	2.75577e-19	1.000000
PAH10+CH3	2.07061e-19	1.000000	2.07291e-19	1.000000
rad43	4.79069e-20	1.000000	4.79602e-20	1.000000
rad22	3.44413e-20	1.000000	3.44796e-20	1.000000
rad52	2.37882e-20	1.000000	2.38146e-20	1.000000
rad36	2.07586e-20	1.000000	2.07817e-20	1.000000
rad62	1.46949e-20	1.000000	1.47112e-20	1.000000
PhcycC3H3_A+H	1.52452e-21	1.000000	1.52621e-21	1.000000
rad51	1.10724e-21	1.000000	1.10847e-21	1.000000
rad70	9.13951e-22	1.000000	9.14967e-22	1.000000
rad55	3.95676e-22	1.000000	3.96116e-22	1.000000
rad58	9.94323e-23	1.000000	9.95428e-23	1.000000
PAH1+H	4.55733e-23	1.000000	4.56240e-23	1.000000
rad24	3.51464e-23	1.000000	3.51855e-23	1.000000
rad65	1.17141e-23	1.000000	1.17271e-23	1.000000
rad34	2.98552e-24	1.000000	2.98884e-24	1.000000

rad42	5.23351e-26	1.000000	5.23933e-26	1.00000
rad41	1.56770e-26	1.000000	1.56944e-26	1.00000
rad47	1.07468e-35	1.000000	1.07587e-35	1.00000

0.100000000E-05 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17544e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998329	0.998329	0.999991	0.999991
Benzyl+C2H2	0.00166158	0.999991	0.00000	0.999991
rad6	8.32690e-06	0.999999	8.34076e-06	0.999999
PhCCH+CH3	4.36785e-07	0.999999	4.37512e-07	1.000000
PhCHCCH2+H	2.66181e-07	1.000000	2.66624e-07	1.00000
PhCCCH3+H	1.55731e-07	1.000000	1.55991e-07	1.00000
rad30	3.74940e-08	1.000000	3.75564e-08	1.00000
Ph+MeAc	6.10104e-09	1.000000	6.11120e-09	1.00000
PAH9+H	5.54882e-09	1.000000	5.55805e-09	1.00000
rad2	2.97975e-09	1.000000	2.98471e-09	1.00000
rad28	2.86112e-09	1.000000	2.86588e-09	1.00000
rad35	2.76931e-09	1.000000	2.77392e-09	1.00000
rad38	1.02444e-09	1.000000	1.02615e-09	1.00000
rad7	7.40315e-10	1.000000	7.41547e-10	1.00000
PAH7+H	6.45761e-10	1.000000	6.46836e-10	1.00000
rad26	3.89544e-10	1.000000	3.90193e-10	1.00000
Ph+Allene	2.52018e-10	1.000000	2.52438e-10	1.00000
rad1	2.24537e-10	1.000000	2.24910e-10	1.00000
rad10	1.91296e-10	1.000000	1.91614e-10	1.00000
rad11	1.77207e-10	1.000000	1.77502e-10	1.00000
rad39	8.64663e-11	1.000000	8.66102e-11	1.00000
rad3	2.13130e-11	1.000000	2.13485e-11	1.00000
rad19anti	1.63377e-11	1.000000	1.63649e-11	1.00000
rad4	1.05990e-11	1.000000	1.06166e-11	1.00000
PhCH2CCH+H	7.51682e-12	1.000000	7.52933e-12	1.00000
rad46	5.66748e-12	1.000000	5.67692e-12	1.00000
rad13	4.26058e-12	1.000000	4.26767e-12	1.00000
rad60syn	7.07966e-13	1.000000	7.09144e-13	1.00000
rad37	6.05581e-13	1.000000	6.06589e-13	1.00000
rad60anti	2.13244e-13	1.000000	2.13599e-13	1.00000
rad23	2.47339e-14	1.000000	2.47750e-14	1.00000
rad33	1.03097e-14	1.000000	1.03268e-14	1.00000
rad20	7.81456e-15	1.000000	7.82757e-15	1.00000
PAH3+H	6.24906e-15	1.000000	6.25946e-15	1.00000
rad21	4.99659e-15	1.000000	5.00490e-15	1.00000
rad27	2.75764e-15	1.000000	2.76223e-15	1.00000
rad59	1.44646e-15	1.000000	1.44887e-15	1.00000
rad45	1.25509e-15	1.000000	1.25718e-15	1.00000
rad14	1.11112e-15	1.000000	1.11297e-15	1.00000
rad25	9.85375e-16	1.000000	9.87015e-16	1.00000
rad18	1.88507e-16	1.000000	1.88820e-16	1.00000
rad22	1.58086e-16	1.000000	1.58349e-16	1.00000
rad50	1.03024e-16	1.000000	1.03196e-16	1.00000
rad36	4.27775e-17	1.000000	4.28487e-17	1.00000
rad19syn	2.69221e-17	1.000000	2.69669e-17	1.00000
rad67	1.20174e-18	1.000000	1.20374e-18	1.00000
rad54	8.62471e-19	1.000000	8.63907e-19	1.00000
PAH10+CH3	5.71975e-19	1.000000	5.72926e-19	1.00000
rad31	4.25697e-19	1.000000	4.26405e-19	1.00000
rad43	1.19051e-19	1.000000	1.19249e-19	1.00000
rad52	6.28747e-20	1.000000	6.29794e-20	1.00000
rad62	4.05054e-20	1.000000	4.05728e-20	1.00000
rad24	1.73503e-20	1.000000	1.73792e-20	1.00000
PhcycC3H3_A+H	7.38945e-21	1.000000	7.40175e-21	1.00000
rad51	3.46093e-21	1.000000	3.46669e-21	1.00000
rad70	3.35423e-21	1.000000	3.35981e-21	1.00000
rad55	1.33538e-21	1.000000	1.33760e-21	1.00000
rad58	3.59869e-22	1.000000	3.60468e-22	1.00000
PAH1+H	2.76409e-22	1.000000	2.76869e-22	1.00000
rad65	4.20416e-23	1.000000	4.21116e-23	1.00000
rad9	3.27654e-23	1.000000	3.28199e-23	1.00000
rad34	1.85425e-23	1.000000	1.85734e-23	1.00000
rad42	4.75218e-25	1.000000	4.76009e-25	1.00000
rad41	1.44596e-25	1.000000	1.44836e-25	1.00000
rad15	1.93907e-26	1.000000	1.94230e-26	1.00000
rad53	6.41325e-27	1.000000	6.42392e-27	1.00000
rad64	1.37052e-27	1.000000	1.37280e-27	1.00000
rad5	2.48108e-29	1.000000	2.48521e-29	1.00000

rad56	9.20945e-30	1.000000	9.22478e-30	1.00000
rad12	9.05357e-30	1.000000	9.06864e-30	1.00000
rad61	1.39479e-30	1.000000	1.39712e-30	1.00000
rad68syn	1.01950e-30	1.000000	1.02120e-30	1.00000
rad68anti	7.27731e-31	1.000000	7.28943e-31	1.00000
rad73	2.20221e-33	1.000000	2.20588e-33	1.00000
rad40syn	2.30637e-34	1.000000	2.31021e-34	1.00000
rad40anti	7.00835e-35	1.000000	7.02002e-35	1.00000
rad47	2.39996e-35	1.000000	2.40395e-35	1.00000
rad71	2.29534e-37	1.000000	2.29916e-37	1.00000
PAH8+H	7.76771e-38	1.000000	7.78063e-38	1.00000
rad72	4.05059e-43	1.000000	4.05733e-43	1.00000
rad8	2.66107e-44	1.000000	2.66550e-44	1.00000

0.100000000E-05 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.44453e-22 (1.00)	2.44054e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998360	0.998360	0.999992	0.999992
Benzyl+C2H2	0.00163188	0.999992	0.00000	0.999992
rad6	6.42435e-06	0.999998	6.43485e-06	0.999998
PhCCH+CH3	7.61026e-07	0.999999	7.62270e-07	0.999999
PhCHCCH2+H	4.77964e-07	1.000000	4.78746e-07	1.000000
PhCCCH3+H	2.76155e-07	1.000000	2.76606e-07	1.000000
rad30	5.84661e-08	1.000000	5.85617e-08	1.00000
Ph+MeAc	1.35859e-08	1.000000	1.36082e-08	1.00000
rad15	8.75421e-09	1.000000	8.76852e-09	1.00000
PAH9+H	7.07585e-09	1.000000	7.08742e-09	1.00000
rad35	4.11577e-09	1.000000	4.12250e-09	1.00000
rad28	3.06881e-09	1.000000	3.07382e-09	1.00000
rad8	2.65438e-09	1.000000	2.65872e-09	1.00000
rad2	2.32242e-09	1.000000	2.32621e-09	1.00000
rad38	1.67248e-09	1.000000	1.67522e-09	1.00000
rad9	1.66309e-09	1.000000	1.66581e-09	1.00000
PAH7+H	1.07641e-09	1.000000	1.07817e-09	1.00000
Ph+Allene	1.01822e-09	1.000000	1.01988e-09	1.00000
rad7	4.90348e-10	1.000000	4.91150e-10	1.00000
rad26	4.62958e-10	1.000000	4.63714e-10	1.00000
rad39	1.93104e-10	1.000000	1.93420e-10	1.00000
rad1	1.81321e-10	1.000000	1.81617e-10	1.00000
rad10	1.26434e-10	1.000000	1.26640e-10	1.00000
rad11	1.21285e-10	1.000000	1.21483e-10	1.00000
rad12	1.09962e-10	1.000000	1.10142e-10	1.00000
PhCH2CCH+H	2.04107e-11	1.000000	2.04440e-11	1.00000
rad3	1.61202e-11	1.000000	1.61466e-11	1.00000
rad46	1.09554e-11	1.000000	1.09733e-11	1.00000
rad4	8.65209e-12	1.000000	8.66624e-12	1.00000
rad13	2.83830e-12	1.000000	2.84294e-12	1.00000
rad37	1.66360e-12	1.000000	1.66632e-12	1.00000
rad60syn	1.63169e-12	1.000000	1.63436e-12	1.00000
rad60anti	5.39033e-13	1.000000	5.39914e-13	1.00000
rad5	4.67687e-14	1.000000	4.68452e-14	1.00000
PAH3+H	1.51219e-14	1.000000	1.51467e-14	1.00000
rad33	5.63724e-15	1.000000	5.64646e-15	1.00000
rad59	4.36101e-15	1.000000	4.36813e-15	1.00000
rad27	2.72754e-15	1.000000	2.73200e-15	1.00000
rad14	1.35958e-15	1.000000	1.36181e-15	1.00000
rad25	1.32023e-15	1.000000	1.32239e-15	1.00000
rad50	3.17584e-16	1.000000	3.18103e-16	1.00000
rad20	1.19229e-16	1.000000	1.19424e-16	1.00000
rad19syn	1.01011e-16	1.000000	1.01176e-16	1.00000
rad21	7.83682e-17	1.000000	7.84963e-17	1.00000
rad23	5.14346e-17	1.000000	5.15187e-17	1.00000
rad54	3.50800e-18	1.000000	3.51374e-18	1.00000
PAH10+CH3	2.26100e-18	1.000000	2.26470e-18	1.00000
rad45	1.12764e-18	1.000000	1.12949e-18	1.00000
rad43	5.14356e-19	1.000000	5.15196e-19	1.00000
rad18	4.53212e-19	1.000000	4.53953e-19	1.00000
rad31	2.66553e-19	1.000000	2.66989e-19	1.00000
rad52	2.26217e-19	1.000000	2.26587e-19	1.00000
rad62	1.76311e-19	1.000000	1.76599e-19	1.00000
rad36	7.46110e-20	1.000000	7.47329e-20	1.00000
rad22	2.73148e-20	1.000000	2.73594e-20	1.00000
PhcycC3H3_A+H	2.37749e-20	1.000000	2.38138e-20	1.00000
rad51	1.42634e-20	1.000000	1.42867e-20	1.00000
rad70	1.35852e-20	1.000000	1.36074e-20	1.00000

rad55	5.98370e-21	1.000000	5.99348e-21	1.00000
rad58	1.57034e-21	1.000000	1.57291e-21	1.00000
PAH1+H	7.93482e-22	1.000000	7.94779e-22	1.00000
rad65	1.69845e-22	1.000000	1.70123e-22	1.00000
rad34	5.35999e-23	1.000000	5.36875e-23	1.00000
rad24	4.11937e-23	1.000000	4.12611e-23	1.00000
rad42	1.01340e-24	1.000000	1.01505e-24	1.00000
rad41	3.07228e-25	1.000000	3.07730e-25	1.00000
rad47	1.45559e-34	1.000000	1.45797e-34	1.00000

0.100000000E-05 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.60269e-20 (1.00)	3.57081e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.991127	0.991127	0.999975	0.999975
Benzyl+C2H2	0.00884847	0.999975	0.00000	0.999975
PhCCH+CH3	1.23503e-05	0.999988	1.24606e-05	0.999987
PhCHCCH2+H	5.95029e-06	0.999994	6.00341e-06	0.999993
PhCCCH3+H	3.90739e-06	0.999998	3.94227e-06	0.999997
rad6	1.21773e-06	0.999999	1.22861e-06	0.999999
Ph+MeAc	5.34638e-07	0.999999	5.39411e-07	0.999999
rad30	4.02126e-07	1.000000	4.05716e-07	1.000000
PAH9+H	6.80802e-08	1.000000	6.86880e-08	1.000000
Ph+Allene	6.39781e-08	1.000000	6.45492e-08	1.000000
PAH7+H	4.50276e-08	1.000000	4.54296e-08	1.000000
rad35	2.73752e-08	1.000000	2.76195e-08	1.000000
rad38	1.63212e-08	1.000000	1.64669e-08	1.000000
rad39	8.59870e-09	1.000000	8.67547e-09	1.000000
PhCH2CCH+H	4.56270e-09	1.000000	4.60344e-09	1.000000
rad28	1.14024e-09	1.000000	1.15042e-09	1.000000
rad19anti	8.44423e-10	1.000000	8.51961e-10	1.000000
rad2	5.50227e-10	1.000000	5.55139e-10	1.000000
rad46	3.06009e-10	1.000000	3.08741e-10	1.000000
rad26	1.79789e-10	1.000000	1.81394e-10	1.000000
rad37	1.38254e-10	1.000000	1.39488e-10	1.000000
rad7	1.14241e-10	1.000000	1.15261e-10	1.000000
rad60syn	9.47275e-11	1.000000	9.55731e-11	1.000000
rad1	5.12065e-11	1.000000	5.16636e-11	1.000000
rad60anti	3.76555e-11	1.000000	3.79916e-11	1.000000
rad10	3.62895e-11	1.000000	3.66135e-11	1.000000
rad11	2.81089e-11	1.000000	2.83598e-11	1.000000
PAH3+H	6.50520e-12	1.000000	6.56327e-12	1.000000
rad3	4.47066e-12	1.000000	4.51057e-12	1.000000
rad4	2.35442e-12	1.000000	2.37544e-12	1.000000
rad23	1.46019e-12	1.000000	1.47323e-12	1.000000
rad59	1.36005e-12	1.000000	1.37219e-12	1.000000
rad13	6.95919e-13	1.000000	7.02132e-13	1.000000
rad45	2.02204e-13	1.000000	2.04009e-13	1.000000
rad50	1.35994e-13	1.000000	1.37208e-13	1.000000
rad19syn	1.28743e-13	1.000000	1.29892e-13	1.000000
rad54	8.91594e-15	1.000000	8.99553e-15	1.000000
rad36	7.79504e-15	1.000000	7.86463e-15	1.000000
PAH10+CH3	4.84581e-15	1.000000	4.88907e-15	1.000000
rad20	4.10383e-15	1.000000	4.14047e-15	1.000000
rad21	2.87006e-15	1.000000	2.89568e-15	1.000000
rad33	1.89851e-15	1.000000	1.91545e-15	1.000000
rad67	1.67319e-15	1.000000	1.68812e-15	1.000000
rad27	1.01329e-15	1.000000	1.02233e-15	1.000000
rad43	8.69683e-16	1.000000	8.77447e-16	1.000000
rad14	8.20331e-16	1.000000	8.27655e-16	1.000000
rad25	7.36004e-16	1.000000	7.42574e-16	1.000000
rad62	4.86642e-16	1.000000	4.90986e-16	1.000000
rad52	4.03330e-16	1.000000	4.06931e-16	1.000000
PhcycC3H3_A+H	3.21885e-16	1.000000	3.24758e-16	1.000000
rad70	1.20384e-16	1.000000	1.21459e-16	1.000000
rad18	7.76455e-17	1.000000	7.83386e-17	1.000000
rad51	7.61824e-17	1.000000	7.68625e-17	1.000000
rad22	5.30984e-17	1.000000	5.35725e-17	1.000000
rad55	5.04270e-17	1.000000	5.08772e-17	1.000000
PAH1+H	2.44002e-17	1.000000	2.46180e-17	1.000000
rad58	1.79710e-17	1.000000	1.81314e-17	1.000000
rad34	2.03113e-18	1.000000	2.04927e-18	1.000000
rad65	1.53289e-18	1.000000	1.54658e-18	1.000000
rad31	6.49905e-19	1.000000	6.55707e-19	1.000000
rad42	7.25699e-20	1.000000	7.32177e-20	1.000000
rad24	5.54105e-20	1.000000	5.59052e-20	1.000000

rad41	2.24630e-20	1.00000	2.26635e-20	1.000000
rad53	5.65476e-21	1.00000	5.70524e-21	1.000000
rad64	1.81587e-21	1.00000	1.83208e-21	1.000000
rad9	9.66098e-22	1.00000	9.74723e-22	1.000000
rad56	6.61023e-23	1.00000	6.66924e-23	1.000000
rad68syn	8.53525e-24	1.00000	8.61145e-24	1.000000
rad68anti	6.16440e-24	1.00000	6.21943e-24	1.000000
rad61	4.52909e-24	1.00000	4.56952e-24	1.000000
rad15	5.98908e-25	1.00000	6.04254e-25	1.000000
rad73	2.17514e-25	1.00000	2.19456e-25	1.000000
rad40syn	4.85313e-26	1.00000	4.89646e-26	1.000000
PAH8+H	2.51497e-26	1.00000	2.53743e-26	1.000000
rad40anti	1.16119e-26	1.00000	1.17156e-26	1.000000
rad71	8.27377e-27	1.00000	8.34763e-27	1.000000
rad5	3.72307e-27	1.00000	3.75631e-27	1.000000
rad12	1.57873e-27	1.00000	1.59283e-27	1.000000
rad72	1.08002e-30	1.00000	1.08966e-30	1.000000
rad47	5.32423e-31	1.00000	5.37176e-31	1.000000
rad8	1.01982e-40	1.00000	1.02892e-40	1.000000

0.1000000000E-05 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.18787e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.968764	0.968764	0.999822	0.999822
Benzyl+C2H2	0.0310635	0.999827	0.00000	0.999822
PhCCH+CH3	9.35926e-05	0.999921	9.65931e-05	0.999919
PhCHCCH2+H	4.00559e-05	0.999961	4.13400e-05	0.999960
PhCCCH3+H	2.54430e-05	0.999987	2.62587e-05	0.999986
Ph+MeAc	7.07385e-06	0.999994	7.30064e-06	0.999993
rad30	2.19669e-06	0.999996	2.26711e-06	0.999996
Ph+Allene	2.05092e-06	0.999998	2.11667e-06	0.999998
PAH7+H	6.80744e-07	0.999999	7.02569e-07	0.999999
PAH9+H	4.84045e-07	0.999999	4.99563e-07	0.999999
PhCH2CCH+H	2.44801e-07	0.999999	2.52649e-07	0.999999
rad35	1.65639e-07	0.999999	1.70949e-07	1.000000
rad6	1.53123e-07	1.000000	1.58032e-07	1.000000
rad39	1.51519e-07	1.000000	1.56377e-07	1.000000
rad38	1.34449e-07	1.000000	1.38759e-07	1.000000
rad19anti	1.41564e-08	1.000000	1.46102e-08	1.000000
rad46	5.06638e-09	1.000000	5.22881e-09	1.000000
rad37	2.86983e-09	1.000000	2.96184e-09	1.000000
rad60syn	2.17485e-09	1.000000	2.24457e-09	1.000000
rad60anti	9.78348e-10	1.000000	1.00971e-09	1.000000
PAH3+H	4.98713e-10	1.000000	5.14701e-10	1.000000
rad28	2.54423e-10	1.000000	2.62580e-10	1.000000
rad2	1.36264e-10	1.000000	1.40632e-10	1.000000
rad59	9.55001e-11	1.000000	9.85617e-11	1.000000
rad26	4.39218e-11	1.000000	4.53299e-11	1.000000
rad19syn	2.21128e-11	1.000000	2.28217e-11	1.000000
rad23	1.93673e-11	1.000000	1.99882e-11	1.000000
rad1	1.62875e-11	1.000000	1.68097e-11	1.000000
rad7	1.54636e-11	1.000000	1.59593e-11	1.000000
rad50	1.38224e-11	1.000000	1.42655e-11	1.000000
rad10	7.52890e-12	1.000000	7.77027e-12	1.000000
rad45	4.40688e-12	1.000000	4.54817e-12	1.000000
rad11	3.98297e-12	1.000000	4.11066e-12	1.000000
rad54	2.40094e-12	1.000000	2.47791e-12	1.000000
rad3	1.48452e-12	1.000000	1.53211e-12	1.000000
PAH10+CH3	9.70427e-13	1.000000	1.00154e-12	1.000000
rad4	8.36898e-13	1.000000	8.63728e-13	1.000000
rad67	2.37493e-13	1.000000	2.45106e-13	1.000000
rad36	2.34546e-13	1.000000	2.42065e-13	1.000000
PhcycC3H3_A+H	2.03140e-13	1.000000	2.09653e-13	1.000000
rad43	1.48446e-13	1.000000	1.53205e-13	1.000000
rad62	1.23066e-13	1.000000	1.27012e-13	1.000000
rad13	1.04581e-13	1.000000	1.07934e-13	1.000000
rad52	1.00177e-13	1.000000	1.03389e-13	1.000000
rad70	6.56844e-14	1.000000	6.77902e-14	1.000000
rad51	3.84314e-14	1.000000	3.96635e-14	1.000000
rad55	2.77305e-14	1.000000	2.86195e-14	1.000000
PAH1+H	2.28961e-14	1.000000	2.36301e-14	1.000000
rad58	1.24937e-14	1.000000	1.28943e-14	1.000000
rad20	3.27963e-15	1.000000	3.38477e-15	1.000000
rad21	2.58399e-15	1.000000	2.66683e-15	1.000000
rad34	2.11778e-15	1.000000	2.18567e-15	1.000000

rad65	9.80634e-16	1.000000	1.01207e-15	1.000000
rad33	3.77510e-16	1.000000	3.89613e-16	1.000000
rad14	2.96012e-16	1.000000	3.05502e-16	1.000000
rad25	2.71975e-16	1.000000	2.80694e-16	1.000000
rad27	2.61647e-16	1.000000	2.70035e-16	1.000000
rad42	8.25261e-17	1.000000	8.51719e-17	1.000000
rad18	4.11061e-17	1.000000	4.24240e-17	1.000000
rad22	3.13982e-17	1.000000	3.24048e-17	1.000000
rad41	2.35270e-17	1.000000	2.42813e-17	1.000000
rad53	2.01909e-17	1.000000	2.08382e-17	1.000000
rad64	7.88259e-18	1.000000	8.13530e-18	1.000000
rad31	1.29722e-18	1.000000	1.33881e-18	1.000000
rad56	7.26649e-19	1.000000	7.49945e-19	1.000000
rad24	4.11974e-19	1.000000	4.25181e-19	1.000000
rad68syn	9.96811e-20	1.000000	1.02877e-19	1.000000
rad68anti	7.08607e-20	1.000000	7.31324e-20	1.000000
rad9	3.99999e-20	1.000000	4.12823e-20	1.000000
rad61	3.00192e-20	1.000000	3.09816e-20	1.000000
rad73	1.98331e-20	1.000000	2.04690e-20	1.000000
rad71	1.09384e-20	1.000000	1.12891e-20	1.000000
PAH8+H	1.57845e-21	1.000000	1.62905e-21	1.000000
rad40syn	1.53201e-21	1.000000	1.58112e-21	1.000000
rad40anti	4.14320e-22	1.000000	4.27602e-22	1.000000
rad72	1.17730e-22	1.000000	1.21504e-22	1.000000
rad15	2.63678e-23	1.000000	2.72131e-23	1.000000
rad12	5.38750e-25	1.000000	5.56022e-25	1.000000
rad5	4.96054e-26	1.000000	5.11957e-26	1.000000
rad47	2.95503e-28	1.000000	3.04977e-28	1.000000
rad8	6.41057e-37	1.000000	6.61609e-37	1.000000

0.100000000E-05 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.36947e-17 (1.00)	1.26193e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.920850	0.920850	0.999325	0.999325
Benzyl+C2H2	0.0785283	0.999378	0.000000	0.999325
PhCCH+CH3	0.000333045	0.999711	0.000361427	0.999686
PhCHCCH2+H	0.000137020	0.999848	0.000148697	0.999835
PhCCH3+H	7.54034e-05	0.999924	8.18293e-05	0.999917
Ph+MeAc	3.38749e-05	0.999958	3.67618e-05	0.999954
Ph+Allene	2.17077e-05	0.999979	2.35577e-05	0.999977
rad30	7.59256e-06	0.999987	8.23960e-06	0.999986
PAH7+H	4.39152e-06	0.999991	4.76577e-06	0.999990
PhCH2CCH+H	3.66168e-06	0.999995	3.97373e-06	0.999994
PAH9+H	2.21748e-06	0.999997	2.40646e-06	0.999997
rad39	1.04275e-06	0.999998	1.13161e-06	0.999998
rad38	6.77227e-07	0.999999	7.34941e-07	0.999999
rad35	6.69665e-07	1.000000	7.26734e-07	0.999999
rad19anti	1.16219e-07	1.000000	1.26124e-07	0.999999
rad46	4.03895e-08	1.000000	4.38315e-08	0.999999
rad60syn	1.92850e-08	1.000000	2.09285e-08	0.999999
rad6	1.87667e-08	1.000000	2.03660e-08	0.999999
rad37	1.80180e-08	1.000000	1.95535e-08	0.999999
PAH3+H	9.89107e-09	1.000000	1.07340e-08	0.999999
rad60anti	9.33103e-09	1.000000	1.01262e-08	1.000000
rad59	1.75177e-09	1.000000	1.90106e-09	1.000000
rad19syn	6.85595e-10	1.000000	7.44022e-10	1.000000
rad50	3.60228e-10	1.000000	3.90927e-10	1.000000
rad54	1.00686e-10	1.000000	1.09267e-10	1.000000
rad2	5.32767e-11	1.000000	5.78170e-11	1.000000
rad23	4.59292e-11	1.000000	4.98433e-11	1.000000
rad28	4.45418e-11	1.000000	4.83376e-11	1.000000
PAH10+CH3	2.91658e-11	1.000000	3.16514e-11	1.000000
PhcycC3H3_A+H	1.50045e-11	1.000000	1.62832e-11	1.000000
rad45	1.14034e-11	1.000000	1.23752e-11	1.000000
rad67	9.04137e-12	1.000000	9.81188e-12	1.000000
rad26	8.23884e-12	1.000000	8.94096e-12	1.000000
rad1	7.93289e-12	1.000000	8.60893e-12	1.000000
rad52	4.62559e-12	1.000000	5.01979e-12	1.000000
rad62	4.44940e-12	1.000000	4.82858e-12	1.000000
rad70	4.33465e-12	1.000000	4.70405e-12	1.000000
rad43	3.80250e-12	1.000000	4.12655e-12	1.000000
rad51	2.81279e-12	1.000000	3.05250e-12	1.000000
PAH1+H	2.14140e-12	1.000000	2.32390e-12	1.000000
rad7	2.10148e-12	1.000000	2.28057e-12	1.000000
rad10	1.89230e-12	1.000000	2.05357e-12	1.000000

rad55	1.80944e-12	1.000000	1.96365e-12	1.000000
rad58	1.01135e-12	1.000000	1.09754e-12	1.000000
rad36	9.33423e-13	1.000000	1.01297e-12	1.000000
rad3	6.39072e-13	1.000000	6.93534e-13	1.000000
rad11	5.88186e-13	1.000000	6.38311e-13	1.000000
rad4	3.91384e-13	1.000000	4.24738e-13	1.000000
rad34	2.13667e-13	1.000000	2.31876e-13	1.000000
rad65	8.08720e-14	1.000000	8.77640e-14	1.000000
rad13	1.75261e-14	1.000000	1.90197e-14	1.000000
rad42	8.05572e-15	1.000000	8.74224e-15	1.000000
rad53	4.55535e-15	1.000000	4.94356e-15	1.000000
rad20	4.39498e-15	1.000000	4.76952e-15	1.000000
rad21	3.92614e-15	1.000000	4.26073e-15	1.000000
rad41	2.01529e-15	1.000000	2.18703e-15	1.000000
rad64	1.94194e-15	1.000000	2.10743e-15	1.000000
rad56	3.44827e-16	1.000000	3.74213e-16	1.000000
rad33	1.28052e-16	1.000000	1.38965e-16	1.000000
rad71	9.82662e-17	1.000000	1.06640e-16	1.000000
rad14	8.72462e-17	1.000000	9.46814e-17	1.000000
rad25	8.44629e-17	1.000000	9.16609e-17	1.000000
rad73	8.36462e-17	1.000000	9.07746e-17	1.000000
rad27	7.01139e-17	1.000000	7.60890e-17	1.000000
rad68syn	4.95542e-17	1.000000	5.37772e-17	1.000000
rad68anti	3.46493e-17	1.000000	3.76021e-17	1.000000
rad18	3.12589e-17	1.000000	3.39228e-17	1.000000
rad22	3.06611e-17	1.000000	3.32740e-17	1.000000
rad61	9.97019e-18	1.000000	1.08199e-17	1.000000
rad24	5.16596e-18	1.000000	5.60620e-18	1.000000
PAH8+H	3.29923e-18	1.000000	3.58039e-18	1.000000
rad72	2.76861e-18	1.000000	3.00456e-18	1.000000
rad9	2.44116e-18	1.000000	2.64920e-18	1.000000
rad31	1.61052e-18	1.000000	1.74777e-18	1.000000
rad40syn	1.59087e-18	1.000000	1.72644e-18	1.000000
rad40anti	5.23766e-19	1.000000	5.68401e-19	1.000000
rad15	1.53607e-21	1.000000	1.66698e-21	1.000000
rad12	2.10272e-22	1.000000	2.28191e-22	1.000000
rad5	2.23230e-25	1.000000	2.42254e-25	1.000000
rad47	2.24983e-26	1.000000	2.44156e-26	1.000000
rad8	9.50884e-33	1.000000	1.03192e-32	1.000000

0.100000000E-05 Pa, 700.000000 K

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

Total | 8.02260e-17 (1.00) | 6.78335e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.844045	0.844045	0.998243	0.998243
Benzyl+C2H2	0.154470	0.998515	0.000000	0.998243
PhCCH+CH3	0.000746434	0.999261	0.000882800	0.999126
PhCHCCH2+H	0.000320585	0.999582	0.000379153	0.999505
PhCCCH3+H	0.000136742	0.999719	0.000161723	0.999667
Ph+Allene	0.000115963	0.999835	0.000137148	0.999804
Ph+MeAc	8.86608e-05	0.999923	0.000104858	0.999909
PhCH2CCH+H	2.52612e-05	0.999949	2.98762e-05	0.999939
rad30	1.89338e-05	0.999968	2.23928e-05	0.999961
PAH7+H	1.64063e-05	0.999984	1.94036e-05	0.999980
PAH9+H	7.24066e-06	0.999991	8.56345e-06	0.999989
rad39	3.97935e-06	0.999995	4.70633e-06	0.999994
rad38	2.36433e-06	0.999998	2.79627e-06	0.999996
rad35	1.97985e-06	1.000000	2.34155e-06	0.999999
rad19anti	5.91542e-07	1.000000	6.99611e-07	0.999999
rad46	1.95974e-07	1.000000	2.31777e-07	1.000000
rad60syn	9.47747e-08	1.000000	1.12089e-07	1.000000
PAH3+H	8.73469e-08	1.000000	1.03304e-07	1.000000
rad37	5.67279e-08	1.000000	6.70914e-08	1.000000
rad60anti	4.82184e-08	1.000000	5.70274e-08	1.000000
rad59	1.44140e-08	1.000000	1.70472e-08	1.000000
rad19syn	7.75621e-09	1.000000	9.17319e-09	1.000000
rad50	4.08654e-09	1.000000	4.83310e-09	1.000000
rad6	2.43333e-09	1.000000	2.87787e-09	1.000000
rad54	1.41341e-09	1.000000	1.67162e-09	1.000000
PhcycC3H3_A+H	3.16563e-10	1.000000	3.74396e-10	1.000000
PAH10+CH3	2.96596e-10	1.000000	3.50782e-10	1.000000
rad67	1.46305e-10	1.000000	1.73033e-10	1.000000
rad70	8.36629e-11	1.000000	9.89472e-11	1.000000
rad52	7.81771e-11	1.000000	9.24593e-11	1.000000
rad51	6.58276e-11	1.000000	7.78536e-11	1.000000
rad62	5.24318e-11	1.000000	6.20105e-11	1.000000

PAH1+H	5.21546e-11	1.00000	6.16827e-11	1.00000
rad55	3.42218e-11	1.00000	4.04737e-11	1.00000
rad23	3.33929e-11	1.00000	3.94934e-11	1.00000
rad43	3.27212e-11	1.00000	3.86990e-11	1.00000
rad58	2.36727e-11	1.00000	2.79974e-11	1.00000
rad2	1.86229e-11	1.00000	2.20251e-11	1.00000
rad45	9.84865e-12	1.00000	1.16479e-11	1.00000
rad28	7.24759e-12	1.00000	8.57165e-12	1.00000
rad34	5.57926e-12	1.00000	6.59853e-12	1.00000
rad1	3.09508e-12	1.00000	3.66052e-12	1.00000
rad65	2.01190e-12	1.00000	2.37945e-12	1.00000
rad26	1.42608e-12	1.00000	1.68661e-12	1.00000
rad36	8.39977e-13	1.00000	9.93433e-13	1.00000
rad10	4.82648e-13	1.00000	5.70822e-13	1.00000
rad7	3.17820e-13	1.00000	3.75883e-13	1.00000
rad3	2.12094e-13	1.00000	2.50842e-13	1.00000
rad53	2.08849e-13	1.00000	2.47004e-13	1.00000
rad42	1.92435e-13	1.00000	2.27591e-13	1.00000
rad4	1.37178e-13	1.00000	1.62239e-13	1.00000
rad11	1.06314e-13	1.00000	1.25737e-13	1.00000
rad64	9.12636e-14	1.00000	1.07937e-13	1.00000
rad41	4.13109e-14	1.00000	4.88580e-14	1.00000
rad56	2.67526e-14	1.00000	3.16401e-14	1.00000
rad20	9.46278e-15	1.00000	1.11915e-14	1.00000
rad21	9.16159e-15	1.00000	1.08353e-14	1.00000
rad13	4.49323e-15	1.00000	5.31409e-15	1.00000
rad68syn	3.97301e-15	1.00000	4.69884e-15	1.00000
rad73	3.29111e-15	1.00000	3.89236e-15	1.00000
rad71	3.21354e-15	1.00000	3.80061e-15	1.00000
rad68anti	2.74324e-15	1.00000	3.24440e-15	1.00000
rad61	5.53927e-16	1.00000	6.55123e-16	1.00000
PAH8+H	4.33772e-16	1.00000	5.13017e-16	1.00000
rad40syn	1.94495e-16	1.00000	2.30027e-16	1.00000
rad9	1.27613e-16	1.00000	1.50927e-16	1.00000
rad33	1.13021e-16	1.00000	1.33668e-16	1.00000
rad72	9.63740e-17	1.00000	1.13981e-16	1.00000
rad40anti	6.74024e-17	1.00000	7.97161e-17	1.00000
rad24	5.53561e-17	1.00000	6.54690e-17	1.00000
rad18	3.75549e-17	1.00000	4.44158e-17	1.00000
rad25	3.17328e-17	1.00000	3.75300e-17	1.00000
rad14	2.91204e-17	1.00000	3.44404e-17	1.00000
rad27	2.61263e-17	1.00000	3.08993e-17	1.00000
rad22	2.06510e-17	1.00000	2.44237e-17	1.00000
rad31	1.07537e-18	1.00000	1.27183e-18	1.00000
rad15	5.37488e-20	1.00000	6.35682e-20	1.00000
rad12	2.79169e-20	1.00000	3.30170e-20	1.00000
rad5	6.24763e-25	1.00000	7.38900e-25	1.00000
rad47	4.46288e-25	1.00000	5.27820e-25	1.00000
rad8	1.57147e-28	1.00000	1.85856e-28	1.00000

0.100000000E-05 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.12228e-16 (1.00)	2.33587e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745326	0.745326	0.996252	0.996252
Benzyl+C2H2	0.251870	0.997196	0.000000	0.996252
PhCCH+CH3	0.00124162	0.998438	0.00165963	0.997912
PhCHCCH2+H	0.000603920	0.999042	0.000807240	0.998719
Ph+Allene	0.000391607	0.999433	0.000523449	0.999242
PhCCCH3+H	0.000180412	0.999614	0.000241151	0.999483
Ph+MeAc	0.000158702	0.999772	0.000212132	0.999696
PhCH2CCH+H	0.000104747	0.999877	0.000140012	0.999836
PAH7+H	4.20043e-05	0.999919	5.61457e-05	0.999892
rad30	3.73181e-05	0.999956	4.98819e-05	0.999942
PAH9+H	1.83027e-05	0.999975	2.44646e-05	0.999966
rad39	1.01670e-05	0.999985	1.35899e-05	0.999980
rad38	6.28638e-06	0.999991	8.40280e-06	0.999988
rad35	4.61792e-06	0.999996	6.17262e-06	0.999994
rad19anti	2.13374e-06	0.999998	2.85210e-06	0.999997
rad46	6.69424e-07	0.999999	8.94797e-07	0.999998
PAH3+H	4.55926e-07	0.999999	6.09421e-07	0.999999
rad60syn	3.14534e-07	0.999999	4.20427e-07	0.999999
rad60anti	1.66149e-07	0.999999	2.22085e-07	0.999999
rad37	1.16536e-07	1.000000	1.55770e-07	0.999999
rad59	7.05288e-08	1.000000	9.42735e-08	1.000000
rad19syn	4.57469e-08	1.000000	6.11483e-08	1.000000

rad50	2.67329e-08	1.000000	3.57329e-08	1.000000
rad54	9.79642e-09	1.000000	1.30945e-08	1.000000
PhcycC3H3_A+H	2.99417e-09	1.000000	4.00220e-09	1.000000
PAH10+CH3	1.56084e-09	1.000000	2.08632e-09	1.000000
rad67	1.31109e-09	1.000000	1.75249e-09	1.000000
rad51	7.39254e-10	1.000000	9.88135e-10	1.000000
rad70	7.37567e-10	1.000000	9.85881e-10	1.000000
rad52	6.86884e-10	1.000000	9.18135e-10	1.000000
PAH1+H	5.38359e-10	1.000000	7.19607e-10	1.000000
rad6	3.74261e-10	1.000000	5.00262e-10	1.000000
rad62	3.04694e-10	1.000000	4.07275e-10	1.000000
rad55	2.93956e-10	1.000000	3.92920e-10	1.000000
rad58	2.53306e-10	1.000000	3.38585e-10	1.000000
rad43	1.42322e-10	1.000000	1.90238e-10	1.000000
rad34	6.18277e-11	1.000000	8.26430e-11	1.000000
rad65	2.32848e-11	1.000000	3.11240e-11	1.000000
rad23	1.41673e-11	1.000000	1.89369e-11	1.000000
rad45	5.34726e-12	1.000000	7.14750e-12	1.000000
rad2	5.08329e-12	1.000000	6.79466e-12	1.000000
rad53	3.49858e-12	1.000000	4.67643e-12	1.000000
rad42	1.90220e-12	1.000000	2.54260e-12	1.000000
rad64	1.51212e-12	1.000000	2.02121e-12	1.000000
rad28	1.26287e-12	1.000000	1.68804e-12	1.000000
rad1	8.22887e-13	1.000000	1.09993e-12	1.000000
rad56	6.63928e-13	1.000000	8.87450e-13	1.000000
rad36	4.45244e-13	1.000000	5.95143e-13	1.000000
rad41	3.47633e-13	1.000000	4.64670e-13	1.000000
rad26	2.64467e-13	1.000000	3.53505e-13	1.000000
rad10	1.12664e-13	1.000000	1.50595e-13	1.000000
rad68syn	1.02323e-13	1.000000	1.36772e-13	1.000000
rad68anti	6.99430e-14	1.000000	9.34904e-14	1.000000
rad7	6.35128e-14	1.000000	8.48954e-14	1.000000
rad73	5.80267e-14	1.000000	7.75624e-14	1.000000
rad3	5.76410e-14	1.000000	7.70468e-14	1.000000
rad4	3.79828e-14	1.000000	5.07703e-14	1.000000
rad11	3.24878e-14	1.000000	4.34254e-14	1.000000
rad20	2.64415e-14	1.000000	3.53435e-14	1.000000
rad21	2.51401e-14	1.000000	3.36040e-14	1.000000
rad71	2.44519e-14	1.000000	3.26840e-14	1.000000
PAH8+H	1.88750e-14	1.000000	2.52296e-14	1.000000
rad61	1.09408e-14	1.000000	1.46242e-14	1.000000
rad40syn	7.06168e-15	1.000000	9.43911e-15	1.000000
rad13	3.49327e-15	1.000000	4.66933e-15	1.000000
rad9	2.63478e-15	1.000000	3.52182e-15	1.000000
rad40anti	2.61401e-15	1.000000	3.49406e-15	1.000000
rad72	3.20394e-16	1.000000	4.28259e-16	1.000000
rad24	2.87053e-16	1.000000	3.83694e-16	1.000000
rad33	2.01934e-16	1.000000	2.69918e-16	1.000000
rad18	7.61308e-17	1.000000	1.01761e-16	1.000000
rad25	2.03031e-17	1.000000	2.71385e-17	1.000000
rad27	1.63908e-17	1.000000	2.19090e-17	1.000000
rad14	1.45508e-17	1.000000	1.94495e-17	1.000000
rad22	1.13534e-17	1.000000	1.51757e-17	1.000000
rad12	7.13526e-19	1.000000	9.53746e-19	1.000000
rad15	6.50528e-19	1.000000	8.69539e-19	1.000000
rad31	5.78731e-19	1.000000	7.73571e-19	1.000000
rad47	4.71421e-24	1.000000	6.30133e-24	1.000000
rad5	1.57481e-24	1.000000	2.10499e-24	1.000000
rad8	8.26837e-25	1.000000	1.10521e-24	1.000000

0.100000000E-05 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.21769e-16 (1.00)	5.91948e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.637601	0.637601	0.992859	0.992859
Benzyl+C2H2	0.357813	0.995414	0.000000	0.992859
PhCCH+CH3	0.00168534	0.997099	0.00262438	0.995483
PhCHCCH2+H	0.000988072	0.998087	0.00153861	0.997022
Ph+Allene	0.000956826	0.999044	0.00148995	0.998512
PhCH2CCH+H	0.000305642	0.999350	0.000475939	0.998988
Ph+MeAc	0.000221700	0.999572	0.000345227	0.999333
PhCCCH3+H	0.000192583	0.999764	0.000299886	0.999633
PAH7+H	8.18813e-05	0.999846	0.000127504	0.999760
rad30	6.20698e-05	0.999908	9.66537e-05	0.999857
PAH9+H	3.81793e-05	0.999946	5.94520e-05	0.999917
rad39	1.95088e-05	0.999966	3.03786e-05	0.999947

rad38	1.36529e-05	0.999979	2.12599e-05	0.999968
rad35	9.01875e-06	0.999988	1.40438e-05	0.999982
rad19anti	5.95507e-06	0.999994	9.27312e-06	0.999992
rad46	1.77409e-06	0.999996	2.76257e-06	0.999994
PAH3+H	1.66000e-06	0.999998	2.58491e-06	0.999997
rad60syn	7.95279e-07	0.999999	1.23839e-06	0.999998
rad60anti	4.32684e-07	0.999999	6.73766e-07	0.999999
rad59	2.41974e-07	0.999999	3.76797e-07	0.999999
rad37	1.83190e-07	1.000000	2.85260e-07	0.999999
rad19syn	1.72530e-07	1.000000	2.68660e-07	1.000000
rad50	1.19158e-07	1.000000	1.85550e-07	1.000000
rad54	4.18728e-08	1.000000	6.52034e-08	1.000000
PhcycC3H3_A+H	1.64006e-08	1.000000	2.55387e-08	1.000000
rad67	7.68849e-09	1.000000	1.19724e-08	1.000000
PAH10+CH3	5.46407e-09	1.000000	8.50854e-09	1.000000
rad51	5.02728e-09	1.000000	7.82838e-09	1.000000
rad52	3.84551e-09	1.000000	5.98815e-09	1.000000
rad70	3.82634e-09	1.000000	5.95829e-09	1.000000
PAH1+H	3.10815e-09	1.000000	4.83994e-09	1.000000
rad58	1.60256e-09	1.000000	2.49547e-09	1.000000
rad55	1.47818e-09	1.000000	2.30179e-09	1.000000
rad62	1.10198e-09	1.000000	1.71599e-09	1.000000
rad43	3.94155e-10	1.000000	6.13770e-10	1.000000
rad34	3.84578e-10	1.000000	5.98857e-10	1.000000
rad65	1.60302e-10	1.000000	2.49618e-10	1.000000
rad6	6.48654e-11	1.000000	1.01007e-10	1.000000
rad53	2.97669e-11	1.000000	4.63523e-11	1.000000
rad64	1.24768e-11	1.000000	1.94286e-11	1.000000
rad42	1.04398e-11	1.000000	1.62566e-11	1.000000
rad56	7.66799e-12	1.000000	1.19404e-11	1.000000
rad23	5.54051e-12	1.000000	8.62756e-12	1.000000
rad45	2.49329e-12	1.000000	3.88250e-12	1.000000
rad41	1.62757e-12	1.000000	2.53442e-12	1.000000
rad68syn	1.23551e-12	1.000000	1.92390e-12	1.000000
rad2	1.13689e-12	1.000000	1.77035e-12	1.000000
rad73	1.04900e-12	1.000000	1.63349e-12	1.000000
rad68anti	8.37617e-13	1.000000	1.30432e-12	1.000000
rad71	4.13809e-13	1.000000	6.44374e-13	1.000000
PAH8+H	3.69234e-13	1.000000	5.74963e-13	1.000000
rad28	2.34305e-13	1.000000	3.64854e-13	1.000000
rad36	2.17311e-13	1.000000	3.38393e-13	1.000000
rad1	1.94039e-13	1.000000	3.02154e-13	1.000000
rad61	1.15317e-13	1.000000	1.79569e-13	1.000000
rad40syn	1.13823e-13	1.000000	1.77243e-13	1.000000
rad20	6.04407e-14	1.000000	9.41170e-14	1.000000
rad26	5.30037e-14	1.000000	8.25362e-14	1.000000
rad21	5.11599e-14	1.000000	7.96651e-14	1.000000
rad40anti	4.54316e-14	1.000000	7.07452e-14	1.000000
rad10	2.65671e-14	1.000000	4.13698e-14	1.000000
rad11	2.13477e-14	1.000000	3.32422e-14	1.000000
rad7	1.93813e-14	1.000000	3.01802e-14	1.000000
rad3	1.51228e-14	1.000000	2.35490e-14	1.000000
rad9	1.29574e-14	1.000000	2.01770e-14	1.000000
rad4	1.05223e-14	1.000000	1.63852e-14	1.000000
rad13	6.55769e-15	1.000000	1.02115e-14	1.000000
rad72	9.38094e-16	1.000000	1.46078e-15	1.000000
rad24	5.74732e-16	1.000000	8.94960e-16	1.000000
rad33	3.65385e-16	1.000000	5.68970e-16	1.000000
rad18	2.21677e-16	1.000000	3.45191e-16	1.000000
rad25	2.20683e-17	1.000000	3.43643e-17	1.000000
rad27	1.37114e-17	1.000000	2.13510e-17	1.000000
rad14	1.05356e-17	1.000000	1.64058e-17	1.000000
rad22	7.85111e-18	1.000000	1.22256e-17	1.000000
rad12	3.93751e-18	1.000000	6.13140e-18	1.000000
rad15	2.28301e-18	1.000000	3.55506e-18	1.000000
rad31	3.17849e-19	1.000000	4.94948e-19	1.000000
rad8	5.05695e-22	1.000000	7.87458e-22	1.000000
rad47	3.22626e-23	1.000000	5.02387e-23	1.000000
rad5	3.96162e-24	1.000000	6.16895e-24	1.000000

0.100000000E-05 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	2.23691e-15 (1.00)	1.20781e-15 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.533143	0.533143	0.987405	0.987405
Benzy1+C2H2	0.460056	0.993199	0.00000	0.987405

PhCCH+CH3	0.00197845	0.995177	0.00366418	0.991069
Ph+Allene	0.00184724	0.997025	0.00342117	0.994490
PhCHCCH2+H	0.00145011	0.998475	0.00268567	0.997176
PhCH2CCH+H	0.000695141	0.999170	0.00128743	0.998463
Ph+MeAc	0.000262360	0.999432	0.000485903	0.998949
PhCCCH3+H	0.000178027	0.999610	0.000329715	0.999279
PAH7+H	0.000130563	0.999741	0.000241809	0.999521
rad30	9.13367e-05	0.999832	0.000169160	0.999690
PAH9+H	6.89547e-05	0.999901	0.000127707	0.999818
rad39	3.03500e-05	0.999932	5.62096e-05	0.999874
rad38	2.54970e-05	0.999957	4.72217e-05	0.999921
rad35	1.54295e-05	0.999972	2.85761e-05	0.999950
rad19anti	1.36963e-05	0.999986	2.53661e-05	0.999975
PAH3+H	4.67729e-06	0.999991	8.66256e-06	0.999984
rad46	3.89964e-06	0.999995	7.22232e-06	0.999991
rad60syn	1.65646e-06	0.999996	3.06785e-06	0.999994
rad60anti	9.23124e-07	0.999997	1.70967e-06	0.999996
rad59	6.45414e-07	0.999998	1.19534e-06	0.999997
rad19syn	4.72655e-07	0.999998	8.75378e-07	0.999998
rad50	4.02263e-07	0.999999	7.45009e-07	0.999999
rad37	2.45621e-07	0.999999	4.54902e-07	0.999999
rad54	1.26767e-07	0.999999	2.34777e-07	0.999999
PhcycC3H3_A+H	6.09438e-08	0.999999	1.12871e-07	0.999999
rad67	3.29353e-08	0.999999	6.09977e-08	0.999999
rad51	2.38555e-08	0.999999	4.41815e-08	1.000000
rad52	1.55659e-08	0.999999	2.88288e-08	1.000000
PAH10+CH3	1.49501e-08	0.999999	2.76882e-08	1.000000
rad70	1.36637e-08	0.999999	2.53058e-08	1.000000
PAH1+H	1.19204e-08	0.999999	2.20771e-08	1.000000
rad58	7.00658e-09	0.999999	1.29765e-08	1.000000
rad55	5.08717e-09	0.999999	9.42168e-09	1.000000
rad62	2.86001e-09	0.999999	5.29688e-09	1.000000
rad34	1.59465e-09	0.999999	2.95336e-09	1.000000
rad43	8.01053e-10	0.999999	1.48359e-09	1.000000
rad65	7.61930e-10	0.999999	1.41113e-09	1.000000
rad53	1.57207e-10	0.999999	2.91154e-10	1.000000
rad64	6.32995e-11	0.999999	1.17234e-10	1.000000
rad56	5.17480e-11	0.999999	9.58397e-11	1.000000
rad42	3.80336e-11	0.999999	7.04400e-11	1.000000
rad6	1.44808e-11	0.999999	2.68191e-11	1.000000
rad73	1.18222e-11	0.999999	2.18953e-11	1.000000
rad68syn	8.78401e-12	0.999999	1.62684e-11	1.000000
rad68anti	5.91471e-12	0.999999	1.09543e-11	1.000000
rad71	5.73088e-12	0.999999	1.06139e-11	1.000000
rad41	5.10896e-12	0.999999	9.46203e-12	1.000000
PAH8+H	3.92411e-12	0.999999	7.26762e-12	1.000000
rad23	2.41472e-12	0.999999	4.47217e-12	1.000000
rad45	1.21238e-12	0.999999	2.24538e-12	1.000000
rad40syn	1.02745e-12	0.999999	1.90288e-12	1.000000
rad61	7.99677e-13	0.999999	1.48104e-12	1.000000
rad40anti	4.38125e-13	0.999999	8.11427e-13	1.000000
rad2	2.64680e-13	0.999999	4.90199e-13	1.000000
rad36	1.09251e-13	0.999999	2.02338e-13	1.000000
rad20	8.81740e-14	0.999999	1.63302e-13	1.000000
rad21	6.41659e-14	0.999999	1.18838e-13	1.000000
rad28	5.19967e-14	0.999999	9.63003e-14	1.000000
rad1	5.09419e-14	0.999999	9.43468e-14	1.000000
rad11	2.81451e-14	0.999999	5.21260e-14	1.000000
rad9	2.15711e-14	0.999999	3.99507e-14	1.000000
rad72	1.62011e-14	0.999999	3.00053e-14	1.000000
rad7	1.42772e-14	0.999999	2.64419e-14	1.000000
rad26	1.29509e-14	0.999999	2.39856e-14	1.000000
rad13	1.27366e-14	0.999999	2.35888e-14	1.000000
rad10	9.70978e-15	0.999999	1.79830e-14	1.000000
rad3	4.58892e-15	0.999999	8.49890e-15	1.000000
rad4	3.35589e-15	0.999999	6.21525e-15	1.000000
rad18	7.80187e-16	0.999999	1.44494e-15	1.000000
rad24	5.90769e-16	0.999999	1.09413e-15	1.000000
rad33	4.69609e-16	0.999999	8.69737e-16	1.000000
rad25	3.13969e-17	0.999999	5.81485e-17	1.000000
rad27	1.11651e-17	0.999999	2.06784e-17	1.000000
rad22	9.81358e-18	0.999999	1.81752e-17	1.000000
rad14	9.24155e-18	0.999999	1.71158e-17	1.000000
rad12	8.61559e-18	0.999999	1.59565e-17	1.000000
rad15	3.27490e-18	0.999999	6.06526e-18	1.000000
rad31	1.86001e-19	0.999999	3.44482e-19	1.000000
rad8	3.09659e-20	0.999999	5.73503e-20	1.000000
rad47	1.58918e-22	0.999999	2.94323e-22	1.000000
rad5	1.14983e-23	0.999999	2.12953e-23	1.000000

0.100000000E-05 Pa, 1100.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	4.69847e-15 (1.00)		2.11075e-15 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.550759	0.550759	0.000000	0.000000
Indene+H	0.439889	0.990648	0.979181	0.979181
Ph+Allene	0.00299528	0.993643	0.00666742	0.985848
PhCCH+CH3	0.00208760	0.995731	0.00464694	0.990495
PhCHCCH2+H	0.00194544	0.997676	0.00433051	0.994826
PhCH2CCH+H	0.00132191	0.998998	0.00294254	0.997768
Ph+MeAc	0.000277389	0.999276	0.000617461	0.998386
PAH7+H	0.000179385	0.999455	0.000399306	0.998785
PhCCCH3+H	0.000149168	0.999604	0.000332043	0.999117
rad30	0.000123015	0.999727	0.000273827	0.999391
PAH9+H	0.000111696	0.999839	0.000248632	0.999640
rad38	4.24978e-05	0.999881	9.45991e-05	0.999734
rad39	4.04278e-05	0.999922	8.99912e-05	0.999824
rad19anti	2.71780e-05	0.999949	6.04975e-05	0.999885
rad35	2.39104e-05	0.999973	5.32238e-05	0.999938
PAH3+H	1.09195e-05	0.999984	2.43064e-05	0.999962
rad46	7.44861e-06	0.999991	1.65804e-05	0.999979
rad60syn	2.99524e-06	0.999994	6.66734e-06	0.999986
rad60anti	1.70291e-06	0.999996	3.79064e-06	0.999989
rad59	1.43231e-06	0.999997	3.18828e-06	0.999993
rad50	1.10325e-06	0.999998	2.45580e-06	0.999995
rad19syn	1.02396e-06	1.000000	2.27932e-06	0.999997
rad37	3.04609e-07	1.000000	6.78052e-07	0.999998
rad54	2.97942e-07	1.000000	6.63211e-07	0.999999
PhcycC3H3_A+H	1.70469e-07	1.000000	3.79460e-07	0.999999
rad67	1.11020e-07	1.000000	2.47128e-07	0.999999
rad51	8.66314e-08	1.000000	1.92839e-07	0.999999
rad52	4.94925e-08	1.000000	1.10169e-07	1.000000
rad70	3.72387e-08	1.000000	8.28925e-08	1.000000
PAH10+CH3	3.55700e-08	1.000000	7.91778e-08	1.000000
PAH1+H	3.40420e-08	1.000000	7.57766e-08	1.000000
rad58	2.33985e-08	1.000000	5.20844e-08	1.000000
rad55	1.32727e-08	1.000000	2.95447e-08	1.000000
rad62	5.84585e-09	1.000000	1.30127e-08	1.000000
rad34	4.93271e-09	1.000000	1.09801e-08	1.000000
rad65	2.75373e-09	1.000000	6.12974e-09	1.000000
rad43	1.31323e-09	1.000000	2.92321e-09	1.000000
rad53	5.86805e-10	1.000000	1.30621e-09	1.000000
rad56	2.36331e-10	1.000000	5.26066e-10	1.000000
rad64	2.26679e-10	1.000000	5.04581e-10	1.000000
rad42	1.03252e-10	1.000000	2.29836e-10	1.000000
rad73	8.74261e-11	1.000000	1.94608e-10	1.000000
rad71	5.10024e-11	1.000000	1.13530e-10	1.000000
rad68syn	4.26221e-11	1.000000	9.48757e-11	1.000000
rad68anti	2.85345e-11	1.000000	6.35171e-11	1.000000
PAH8+H	2.67129e-11	1.000000	5.94622e-11	1.000000
rad41	1.21931e-11	1.000000	2.71415e-11	1.000000
rad40syn	6.09410e-12	1.000000	1.35653e-11	1.000000
rad6	4.51434e-12	1.000000	1.00488e-11	1.000000
rad61	4.16715e-12	1.000000	9.27598e-12	1.000000
rad40anti	2.75055e-12	1.000000	6.12266e-12	1.000000
rad23	1.13243e-12	1.000000	2.52077e-12	1.000000
rad45	6.12258e-13	1.000000	1.36287e-12	1.000000
rad72	2.32442e-13	1.000000	5.17410e-13	1.000000
rad20	7.93855e-14	1.000000	1.76710e-13	1.000000
rad2	6.91481e-14	1.000000	1.53922e-13	1.000000
rad36	5.62815e-14	1.000000	1.25281e-13	1.000000
rad21	5.10807e-14	1.000000	1.13704e-13	1.000000
rad11	4.56768e-14	1.000000	1.01675e-13	1.000000
rad9	2.22688e-14	1.000000	4.95697e-14	1.000000
rad7	2.12894e-14	1.000000	4.73897e-14	1.000000
rad13	1.66203e-14	1.000000	3.69963e-14	1.000000
rad28	1.49154e-14	1.000000	3.32012e-14	1.000000
rad1	1.44924e-14	1.000000	3.22598e-14	1.000000
rad10	6.12656e-15	1.000000	1.36376e-14	1.000000
rad26	4.12072e-15	1.000000	9.17263e-15	1.000000
rad18	2.44827e-15	1.000000	5.44978e-15	1.000000
rad3	1.56178e-15	1.000000	3.47647e-15	1.000000
rad4	1.17613e-15	1.000000	2.61803e-15	1.000000
rad24	4.56170e-16	1.000000	1.01542e-15	1.000000
rad33	3.94222e-16	1.000000	8.77528e-16	1.000000
rad25	3.94356e-17	1.000000	8.77827e-17	1.000000

rad22	2.18517e-17	1.00000	4.86414e-17	1.000000
rad12	1.26339e-17	1.00000	2.81227e-17	1.000000
rad14	7.49668e-18	1.00000	1.66874e-17	1.000000
rad27	7.01408e-18	1.00000	1.56132e-17	1.000000
rad15	3.31050e-18	1.00000	7.36909e-18	1.000000
rad8	3.02695e-19	1.00000	6.73791e-19	1.000000
rad31	1.11579e-19	1.00000	2.48372e-19	1.000000
rad47	5.97459e-22	1.00000	1.32993e-21	1.000000
rad5	3.90178e-23	1.00000	8.68527e-23	1.000000

0.100000000E-05 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.84330e-15 (1.00)	3.30079e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.626747	0.626747	0.00000	0.00000
Indene+H	0.361139	0.987886	0.967544	0.967544
Ph+Allene	0.00426331	0.992149	0.0114220	0.978966
PhCHCCH2+H	0.00242727	0.994577	0.00650302	0.985469
PhCH2CCH+H	0.00220912	0.996786	0.00591855	0.991388
PhCCH+CH3	0.00203529	0.998821	0.00545285	0.996840
Ph+MeAc	0.000271659	0.999093	0.000727814	0.997568
PAH7+H	0.000220958	0.999314	0.000591978	0.998160
PAH9+H	0.000166476	0.999480	0.000446015	0.998606
rad30	0.000155353	0.999635	0.000416215	0.999022
PhCCCH3+H	0.000117029	0.999752	0.000313538	0.999336
rad38	6.49367e-05	0.999817	0.000173975	0.999510
rad19anti	4.80909e-05	0.999865	0.000128843	0.999639
rad39	4.80571e-05	0.999914	0.000128752	0.999768
rad35	3.43899e-05	0.999948	9.21355e-05	0.999860
PAH3+H	2.21253e-05	0.999970	5.92770e-05	0.999919
rad46	1.27762e-05	0.999983	3.42294e-05	0.999953
rad60syn	4.87439e-06	0.999988	1.30592e-05	0.999966
rad60anti	2.81860e-06	0.999991	7.55145e-06	0.999974
rad59	2.76936e-06	0.999993	7.41953e-06	0.999981
rad50	2.57972e-06	0.999996	6.91144e-06	0.999988
rad19syn	1.86136e-06	0.999998	4.98686e-06	0.999993
rad54	5.79322e-07	0.999998	1.55209e-06	0.999995
PhcycC3H3_A+H	3.85542e-07	0.999999	1.03292e-06	0.999996
rad37	3.71909e-07	0.999999	9.96399e-07	0.999997
rad67	3.10056e-07	0.999999	8.30686e-07	0.999998
rad51	2.56406e-07	1.000000	6.86949e-07	0.999998
rad52	1.30814e-07	1.000000	3.50469e-07	0.999999
rad70	8.31661e-08	1.000000	2.22814e-07	0.999999
PAH10+CH3	7.86243e-08	1.000000	2.10646e-07	0.999999
PAH1+H	7.84240e-08	1.000000	2.10109e-07	0.999999
rad58	6.38230e-08	1.000000	1.70991e-07	0.999999
rad55	2.81615e-08	1.000000	7.54487e-08	0.999999
rad34	1.22937e-08	1.000000	3.29365e-08	0.999999
rad62	1.00322e-08	1.000000	2.68777e-08	1.000000
rad65	8.07953e-09	1.000000	2.16462e-08	1.000000
rad43	1.86209e-09	1.000000	4.98881e-09	1.000000
rad53	1.69057e-09	1.000000	4.52927e-09	1.000000
rad56	8.06531e-10	1.000000	2.16081e-09	1.000000
rad64	6.30249e-10	1.000000	1.68853e-09	1.000000
rad73	4.67950e-10	1.000000	1.25371e-09	1.000000
rad71	3.19754e-10	1.000000	8.56667e-10	1.000000
rad42	2.25979e-10	1.000000	6.05431e-10	1.000000
rad68syn	1.55936e-10	1.000000	4.17774e-10	1.000000
PAH8+H	1.30631e-10	1.000000	3.49980e-10	1.000000
rad68anti	1.03878e-10	1.000000	2.78304e-10	1.000000
rad40syn	2.64822e-11	1.000000	7.09498e-11	1.000000
rad41	2.43325e-11	1.000000	6.51903e-11	1.000000
rad61	1.76267e-11	1.000000	4.72244e-11	1.000000
rad40anti	1.25562e-11	1.000000	3.36398e-11	1.000000
rad72	2.17913e-12	1.000000	5.83821e-12	1.000000
rad6	2.07210e-12	1.000000	5.55147e-12	1.000000
rad23	5.57414e-13	1.000000	1.49339e-12	1.000000
rad45	3.17945e-13	1.000000	8.51821e-13	1.000000
rad11	6.25088e-14	1.000000	1.67470e-13	1.000000
rad20	5.25317e-14	1.000000	1.40740e-13	1.000000
rad7	3.51464e-14	1.000000	9.41623e-14	1.000000
rad21	3.17166e-14	1.000000	8.49734e-14	1.000000
rad36	2.96657e-14	1.000000	7.94787e-14	1.000000
rad9	1.97551e-14	1.000000	5.29267e-14	1.000000
rad2	1.96265e-14	1.000000	5.25824e-14	1.000000
rad13	1.37634e-14	1.000000	3.68742e-14	1.000000

rad28	5.94815e-15	1.00000	1.59360e-14	1.000000
rad18	5.20685e-15	1.00000	1.39499e-14	1.000000
rad10	4.62908e-15	1.00000	1.24020e-14	1.000000
rad1	4.32020e-15	1.00000	1.15745e-14	1.000000
rad26	1.74177e-15	1.00000	4.66645e-15	1.000000
rad3	5.71466e-16	1.00000	1.53104e-15	1.000000
rad4	4.37928e-16	1.00000	1.17327e-15	1.000000
rad24	3.33436e-16	1.00000	8.93325e-16	1.000000
rad33	2.51831e-16	1.00000	6.74692e-16	1.000000
rad22	7.03771e-17	1.00000	1.88550e-16	1.000000
rad25	3.68476e-17	1.00000	9.87200e-17	1.000000
rad12	1.57453e-17	1.00000	4.21838e-17	1.000000
rad15	5.09924e-18	1.00000	1.36616e-17	1.000000
rad14	4.93371e-18	1.00000	1.32181e-17	1.000000
rad27	3.32751e-18	1.00000	8.91489e-18	1.000000
rad8	9.89268e-19	1.00000	2.65039e-18	1.000000
rad31	6.76592e-20	1.00000	1.81269e-19	1.000000
rad47	1.81317e-21	1.00000	4.85774e-21	1.000000
rad5	1.44852e-22	1.00000	3.88080e-22	1.000000

0.1000000000E-05 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.52810e-14 (1.00)	4.76644e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.688080	0.688080	0.00000	0.00000
Indene+H	0.296944	0.985024	0.951986	0.951986
Ph+Allene	0.00550433	0.990528	0.0176466	0.969633
PhCH2CCH+H	0.00336231	0.993891	0.0107794	0.980412
PhCHCCH2+H	0.00286585	0.996756	0.00918775	0.989600
PhCCH+CH3	0.00187197	0.998628	0.00600145	0.995601
Ph+MeAc	0.000252917	0.998881	0.000810838	0.996412
PAH7+H	0.000251839	0.999133	0.000807383	0.997219
PAH9+H	0.000232565	0.999366	0.000745592	0.997965
rad30	0.000187145	0.999553	0.000599977	0.998565
rad38	9.27358e-05	0.999646	0.000297306	0.998862
PhCCCH3+H	8.81977e-05	0.999734	0.000282757	0.999145
rad19anti	7.76866e-05	0.999812	0.000249059	0.999394
rad39	5.27138e-05	0.999864	0.000168998	0.999563
rad35	4.67240e-05	0.999911	0.000149795	0.999713
PAH3+H	4.01931e-05	0.999951	0.000128857	0.999842
rad46	2.01481e-05	0.999971	6.45939e-05	0.999906
rad60syn	7.32140e-06	0.999979	2.34720e-05	0.999930
rad50	5.32215e-06	0.999984	1.70625e-05	0.999947
rad59	4.81766e-06	0.999989	1.54452e-05	0.999962
rad60anti	4.29551e-06	0.999993	1.37712e-05	0.999976
rad19syn	2.96344e-06	0.999996	9.50065e-06	0.999986
rad54	9.75309e-07	0.999997	3.12679e-06	0.999989
rad67	7.44257e-07	0.999998	2.38605e-06	0.999991
PhcycC3H3_A+H	7.41843e-07	0.999999	2.37831e-06	0.999993
rad51	6.46585e-07	0.999999	2.07292e-06	0.999996
rad37	4.66727e-07	1.000000	1.49630e-06	0.999997
rad52	2.99170e-07	1.000000	9.59124e-07	0.999998
PAH10+CH3	1.66594e-07	1.000000	5.34093e-07	0.999999
rad70	1.60097e-07	1.000000	5.13264e-07	0.999999
PAH1+H	1.54574e-07	1.000000	4.95557e-07	1.000000
rad58	1.48959e-07	1.000000	4.77556e-07	1.000000
rad55	5.10750e-08	1.000000	1.63744e-07	1.000000
rad34	2.60671e-08	1.000000	8.35698e-08	1.000000
rad65	2.01508e-08	1.000000	6.46025e-08	1.000000
rad62	1.51327e-08	1.000000	4.85146e-08	1.000000
rad53	3.99906e-09	1.000000	1.28208e-08	1.000000
rad43	2.42224e-09	1.000000	7.76557e-09	1.000000
rad56	2.20471e-09	1.000000	7.06819e-09	1.000000
rad73	1.94724e-09	1.000000	6.24276e-09	1.000000
rad71	1.52459e-09	1.000000	4.88774e-09	1.000000
rad64	1.45722e-09	1.000000	4.67176e-09	1.000000
PAH8+H	4.97086e-10	1.000000	1.59363e-09	1.000000
rad68syn	4.61120e-10	1.000000	1.47833e-09	1.000000
rad42	4.21653e-10	1.000000	1.35180e-09	1.000000
rad68anti	3.05850e-10	1.000000	9.80538e-10	1.000000
rad40syn	9.09556e-11	1.000000	2.91599e-10	1.000000
rad61	6.30316e-11	1.000000	2.02076e-10	1.000000
rad40anti	4.50261e-11	1.000000	1.44351e-10	1.000000
rad41	4.39793e-11	1.000000	1.40995e-10	1.000000
rad72	1.45373e-11	1.000000	4.66059e-11	1.000000
rad6	1.37737e-12	1.000000	4.41577e-12	1.000000

rad23	2.86098e-13	1.00000	9.17216e-13	1.00000
rad45	1.69502e-13	1.00000	5.43413e-13	1.00000
rad11	6.08414e-14	1.00000	1.95054e-13	1.00000
rad7	4.47131e-14	1.00000	1.43348e-13	1.00000
rad20	3.18168e-14	1.00000	1.02003e-13	1.00000
rad21	1.87706e-14	1.00000	6.01774e-14	1.00000
rad9	1.63350e-14	1.00000	5.23690e-14	1.00000
rad36	1.60292e-14	1.00000	5.13889e-14	1.00000
rad13	8.37499e-15	1.00000	2.68498e-14	1.00000
rad18	6.76196e-15	1.00000	2.16785e-14	1.00000
rad2	5.87509e-15	1.00000	1.88352e-14	1.00000
rad28	3.41241e-15	1.00000	1.09400e-14	1.00000
rad10	2.94454e-15	1.00000	9.44004e-15	1.00000
rad1	1.33315e-15	1.00000	4.27399e-15	1.00000
rad26	9.25211e-16	1.00000	2.96618e-15	1.00000
rad22	2.58294e-16	1.00000	8.28077e-16	1.00000
rad24	2.44030e-16	1.00000	7.82347e-16	1.00000
rad3	2.20383e-16	1.00000	7.06537e-16	1.00000
rad4	1.70945e-16	1.00000	5.48040e-16	1.00000
rad33	1.48882e-16	1.00000	4.77309e-16	1.00000
rad25	2.76125e-17	1.00000	8.85244e-17	1.00000
rad15	2.03025e-17	1.00000	6.50887e-17	1.00000
rad12	1.79600e-17	1.00000	5.75787e-17	1.00000
rad14	2.71727e-18	1.00000	8.71143e-18	1.00000
rad8	1.89596e-18	1.00000	6.07834e-18	1.00000
rad27	1.34954e-18	1.00000	4.32654e-18	1.00000
rad31	4.14038e-20	1.00000	1.32738e-19	1.00000
rad47	4.64662e-21	1.00000	1.48968e-20	1.00000
rad5	5.20688e-22	1.00000	1.66930e-21	1.00000

0.100000000E-05 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.46691e-14 (1.00)	6.50155e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.736450	0.736450	0.00000	0.00000
Indene+H	0.245659	0.982109	0.932117	0.932117
Ph+Allene	0.00660861	0.988718	0.0250754	0.957192
PhCH2CCH+H	0.00478128	0.993499	0.0181419	0.975334
PhCHCCH2+H	0.00325578	0.996755	0.0123536	0.987688
PhCCH+CH3	0.00165084	0.998406	0.00626388	0.993952
PAH9+H	0.000308661	0.998714	0.00117117	0.995123
PAH7+H	0.000272630	0.998987	0.00103445	0.996157
Ph+MeAc	0.000228420	0.999215	0.000866707	0.997024
rad30	0.000217655	0.999433	0.000825859	0.997850
rad38	0.000125529	0.999558	0.000476301	0.998326
rad19anti	0.000116511	0.999675	0.000442085	0.998768
PAH3+H	6.69984e-05	0.999742	0.000254215	0.999023
PhCCCH3+H	6.53819e-05	0.999807	0.000248082	0.999271
rad35	6.07397e-05	0.999868	0.000230468	0.999501
rad39	5.49305e-05	0.999923	0.000208426	0.999710
rad46	2.97185e-05	0.999953	0.000112762	0.999822
rad60syn	1.03332e-05	0.999963	3.92077e-05	0.999862
rad50	9.93210e-06	0.999973	3.76859e-05	0.999899
rad59	7.71556e-06	0.999981	2.92756e-05	0.999928
rad60anti	6.13929e-06	0.999987	2.32946e-05	0.999952
rad19syn	4.26609e-06	0.999991	1.61870e-05	0.999968
rad67	1.57759e-06	0.999993	5.98594e-06	0.999974
rad54	1.46998e-06	0.999994	5.57763e-06	0.999980
rad51	1.43445e-06	0.999996	5.44280e-06	0.999985
PhcycC3H3_A+H	1.26043e-06	0.999997	4.78252e-06	0.999990
rad37	6.13241e-07	0.999997	2.32685e-06	0.999992
rad52	6.09458e-07	0.999998	2.31250e-06	0.999994
PAH10+CH3	3.40070e-07	0.999998	1.29034e-06	0.999996
rad58	3.07503e-07	0.999999	1.16677e-06	0.999997
rad70	2.75599e-07	0.999999	1.04572e-06	0.999998
PAH1+H	2.72543e-07	0.999999	1.03413e-06	0.999999
rad55	8.21114e-08	0.999999	3.11559e-07	0.999999
rad34	4.89123e-08	0.999999	1.85590e-07	0.999999
rad65	4.41608e-08	0.999999	1.67561e-07	1.000000
rad62	2.07591e-08	0.999999	7.87674e-08	1.000000
rad53	8.12265e-09	0.999999	3.08202e-08	1.000000
rad73	6.62662e-09	0.999999	2.51437e-08	1.000000
rad71	5.83659e-09	0.999999	2.21461e-08	1.000000
rad56	5.07502e-09	0.999999	1.92564e-08	1.000000
rad43	3.05585e-09	0.999999	1.15950e-08	1.000000
rad64	2.94785e-09	0.999999	1.11852e-08	1.000000

PAH8+H	1.55760e-09	0.999999	5.91010e-09	1.000000
rad68syn	1.15822e-09	0.999999	4.39468e-09	1.000000
rad68anti	7.65284e-10	0.999999	2.90376e-09	1.000000
rad42	6.99013e-10	0.999999	2.65230e-09	1.000000
rad40syn	2.60577e-10	0.999999	9.88719e-10	1.000000
rad61	1.94739e-10	0.999999	7.38907e-10	1.000000
rad40anti	1.33993e-10	0.999999	5.08417e-10	1.000000
rad41	7.68994e-11	0.999999	2.91783e-10	1.000000
rad72	7.37095e-11	0.999999	2.79680e-10	1.000000
rad6	1.21128e-12	0.999999	4.59603e-12	1.000000
rad23	1.53189e-13	0.999999	5.81253e-13	1.000000
rad45	9.28880e-14	0.999999	3.52450e-13	1.000000
rad11	4.33333e-14	0.999999	1.64422e-13	1.000000
rad7	3.94166e-14	0.999999	1.49561e-13	1.000000
rad20	1.95003e-14	0.999999	7.39910e-14	1.000000
rad9	1.29596e-14	0.999999	4.91734e-14	1.000000
rad21	1.13739e-14	0.999999	4.31567e-14	1.000000
rad36	8.89888e-15	0.999999	3.37655e-14	1.000000
rad18	5.84529e-15	0.999999	2.21791e-14	1.000000
rad13	4.53221e-15	0.999999	1.71968e-14	1.000000
rad28	2.69053e-15	0.999999	1.02088e-14	1.000000
rad2	1.83209e-15	0.999999	6.95161e-15	1.000000
rad10	1.43189e-15	0.999999	5.43311e-15	1.000000
rad22	8.74524e-16	0.999999	3.31825e-15	1.000000
rad26	5.50711e-16	0.999999	2.08959e-15	1.000000
rad1	4.25055e-16	0.999999	1.61281e-15	1.000000
rad24	1.80067e-16	0.999999	6.83237e-16	1.000000
rad3	8.88990e-17	0.999999	3.37314e-16	1.000000
rad33	8.79960e-17	0.999999	3.33888e-16	1.000000
rad4	6.96241e-17	0.999999	2.64178e-16	1.000000
rad15	6.30404e-17	0.999999	2.39198e-16	1.000000
rad12	1.93287e-17	0.999999	7.33399e-17	1.000000
rad25	1.92135e-17	0.999999	7.29027e-17	1.000000
rad8	2.79512e-18	0.999999	1.06057e-17	1.000000
rad14	1.41990e-18	0.999999	5.38761e-18	1.000000
rad27	5.43618e-19	0.999999	2.06268e-18	1.000000
rad31	2.56226e-20	0.999999	9.72211e-20	1.000000
rad47	1.04027e-20	0.999999	3.94715e-20	1.000000
rad5	1.58192e-21	0.999999	6.00236e-21	1.000000

0.100000000E-05 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.51560e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.774067	0.774067	0.00000	0.00000
Indene+H	0.205065	0.979132	0.907636	0.907636
Ph+Allene	0.00752036	0.986652	0.0332858	0.940922
PhCH2CCH+H	0.00646723	0.993120	0.0286246	0.969546
PhCHCCH2+H	0.00361205	0.996732	0.0159873	0.985534
PhCCH+CH3	0.00141397	0.998146	0.00625837	0.991792
PAH9+H	0.000393094	0.998539	0.00173987	0.993532
PAH7+H	0.000286546	0.998825	0.00126828	0.994800
rad30	0.000246477	0.999072	0.00109093	0.995891
Ph+MeAc	0.000203626	0.999275	0.000901268	0.996792
rad19anti	0.000164236	0.999440	0.000726923	0.997519
rad38	0.000162728	0.999602	0.000720251	0.998240
PAH3+H	0.000104218	0.999707	0.000461281	0.998701
rad35	7.62565e-05	0.999783	0.000337518	0.999038
rad39	5.58557e-05	0.999839	0.000247223	0.999286
PhCCCH3+H	4.89506e-05	0.999888	0.000216660	0.999502
rad46	4.15217e-05	0.999929	0.000183779	0.999686
rad50	1.70754e-05	0.999946	7.55771e-05	0.999762
rad60syn	1.38815e-05	0.999960	6.14410e-05	0.999823
rad59	1.15663e-05	0.999972	5.11935e-05	0.999874
rad60anti	8.33859e-06	0.999980	3.69074e-05	0.999911
rad19syn	5.68956e-06	0.999986	2.51825e-05	0.999936
rad67	3.01383e-06	0.999989	1.33395e-05	0.999950
rad51	2.86542e-06	0.999992	1.26826e-05	0.999962
rad54	2.03370e-06	0.999994	9.00134e-06	0.999971
PhcycC3H3_A+H	1.94411e-06	0.999996	8.60479e-06	0.999980
rad52	1.12959e-06	0.999997	4.99968e-06	0.999985
rad37	8.38280e-07	0.999997	3.71030e-06	0.999989
PAH10+CH3	6.63376e-07	0.999998	2.93617e-06	0.999992
rad58	5.75067e-07	0.999999	2.54530e-06	0.999994
PAH1+H	4.44629e-07	0.999999	1.96797e-06	0.999996
rad70	4.35873e-07	1.000000	1.92921e-06	0.999998

rad55	1.20222e-07	1.000000	5.32112e-07	0.999999
rad65	8.70999e-08	1.000000	3.85512e-07	0.999999
rad34	8.35876e-08	1.000000	3.69966e-07	0.999999
rad62	2.65880e-08	1.000000	1.17681e-07	0.999999
rad73	1.91029e-08	1.000000	8.45513e-08	1.000000
rad71	1.86182e-08	1.000000	8.24060e-08	1.000000
rad53	1.46409e-08	1.000000	6.48019e-08	1.000000
rad56	1.02046e-08	1.000000	4.51664e-08	1.000000
rad64	5.41559e-09	1.000000	2.39699e-08	1.000000
PAH8+H	4.18063e-09	1.000000	1.85038e-08	1.000000
rad43	3.92947e-09	1.000000	1.73922e-08	1.000000
rad68syn	2.56012e-09	1.000000	1.13313e-08	1.000000
rad68anti	1.68587e-09	1.000000	7.46183e-09	1.000000
rad42	1.06259e-09	1.000000	4.70314e-09	1.000000
rad40syn	6.46765e-10	1.000000	2.86264e-09	1.000000
rad61	5.26863e-10	1.000000	2.33195e-09	1.000000
rad40anti	3.43892e-10	1.000000	1.52210e-09	1.000000
rad72	2.96653e-10	1.000000	1.31301e-09	1.000000
rad41	1.35344e-10	1.000000	5.99046e-10	1.000000
rad6	1.21435e-12	1.000000	5.37481e-12	1.000000
rad23	8.66738e-14	1.000000	3.83626e-13	1.000000
rad45	5.24113e-14	1.000000	2.31977e-13	1.000000
rad11	2.60274e-14	1.000000	1.15200e-13	1.000000
rad7	2.59461e-14	1.000000	1.14840e-13	1.000000
rad20	1.23074e-14	1.000000	5.44737e-14	1.000000
rad9	1.00433e-14	1.000000	4.44526e-14	1.000000
rad21	7.10953e-15	1.000000	3.14675e-14	1.000000
rad36	5.08484e-15	1.000000	2.25060e-14	1.000000
rad18	4.05516e-15	1.000000	1.79485e-14	1.000000
rad28	2.55249e-15	1.000000	1.12975e-14	1.000000
rad13	2.40598e-15	1.000000	1.06491e-14	1.000000
rad22	2.29084e-15	1.000000	1.01395e-14	1.000000
rad2	5.93073e-16	1.000000	2.62500e-15	1.000000
rad10	5.69013e-16	1.000000	2.51851e-15	1.000000
rad26	3.24113e-16	1.000000	1.43456e-15	1.000000
rad1	1.40200e-16	1.000000	6.20538e-16	1.000000
rad24	1.34246e-16	1.000000	5.94185e-16	1.000000
rad15	1.14676e-16	1.000000	5.07568e-16	1.000000
rad33	5.25043e-17	1.000000	2.32389e-16	1.000000
rad3	3.73811e-17	1.000000	1.65452e-16	1.000000
rad4	2.95179e-17	1.000000	1.30649e-16	1.000000
rad12	1.99725e-17	1.000000	8.84000e-17	1.000000
rad25	1.32639e-17	1.000000	5.87071e-17	1.000000
rad8	3.57803e-18	1.000000	1.58367e-17	1.000000
rad14	7.59785e-19	1.000000	3.36288e-18	1.000000
rad27	2.30897e-19	1.000000	1.02197e-18	1.000000
rad47	2.08549e-20	1.000000	9.23059e-20	1.000000
rad31	1.60839e-20	1.000000	7.11887e-20	1.000000
rad5	3.63829e-21	1.000000	1.61034e-20	1.000000

0.100000000E-05 Pa, 1750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	1.49145e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837640	0.837640	0.00000	0.00000
Indene+H	0.133064	0.970704	0.819559	0.819559
PhCH2CCH+H	0.0118056	0.982510	0.0727127	0.892272
Ph+Allene	0.00950091	0.992011	0.0585175	0.950789
PhCHCCH2+H	0.00446803	0.996479	0.0275192	0.978308
PhCCH+CH3	0.000861597	0.997340	0.00530671	0.983615
PAH9+H	0.000556652	0.997897	0.00342850	0.987044
rad30	0.000325000	0.998222	0.00200173	0.989045
rad19anti	0.000321503	0.998543	0.00198018	0.991026
rad38	0.000287109	0.998830	0.00176835	0.992794
PAH7+H	0.000286344	0.999117	0.00176363	0.994557
PAH3+H	0.000275296	0.999392	0.00169559	0.996253
Ph+MeAc	0.000167695	0.999560	0.00103286	0.997286
rad35	0.000110066	0.999670	0.000677915	0.997964
rad46	7.52920e-05	0.999745	0.000463735	0.998428
rad39	5.82425e-05	0.999803	0.000358724	0.998786
rad50	4.36581e-05	0.999847	0.000268897	0.999055
PhCCCH3+H	3.20470e-05	0.999879	0.000197382	0.999253
rad59	2.75338e-05	0.999907	0.000169584	0.999422
rad60syn	2.64498e-05	0.999933	0.000162908	0.999585
rad60anti	1.77452e-05	0.999951	0.000109295	0.999694
rad51	1.06304e-05	0.999961	6.54744e-05	0.999760

rad67	1.00266e-05	0.999971	6.17554e-05	0.999822
rad19syn	8.12817e-06	0.999980	5.00626e-05	0.999872
PhcycC3H3_A+H	4.32964e-06	0.999984	2.66669e-05	0.999898
rad52	3.62585e-06	0.999988	2.23321e-05	0.999921
rad54	3.10468e-06	0.999991	1.91222e-05	0.999940
PAH10+CH3	2.60306e-06	0.999993	1.60326e-05	0.999956
rad58	2.01823e-06	0.999995	1.24306e-05	0.999968
rad37	1.70772e-06	0.999997	1.05181e-05	0.999979
PAH1+H	1.10635e-06	0.999998	6.81419e-06	0.999986
rad70	1.04847e-06	0.999999	6.45765e-06	0.999992
rad65	3.08348e-07	0.999999	1.89916e-06	0.999994
rad34	2.42002e-07	1.000000	1.49052e-06	0.999995
rad55	2.29000e-07	1.000000	1.41044e-06	0.999997
rad71	1.90753e-07	1.000000	1.17488e-06	0.999998
rad73	1.56380e-07	1.000000	9.63168e-07	0.999999
rad53	4.44390e-08	1.000000	2.73707e-07	0.999999
rad62	4.00911e-08	1.000000	2.46927e-07	1.000000
rad56	3.57943e-08	1.000000	2.20463e-07	1.000000
PAH8+H	2.43959e-08	1.000000	1.50258e-07	1.000000
rad64	1.92943e-08	1.000000	1.18836e-07	1.000000
rad68syn	1.20123e-08	1.000000	7.39857e-08	1.000000
rad43	8.60713e-09	1.000000	5.30126e-08	1.000000
rad68anti	7.79056e-09	1.000000	4.79832e-08	1.000000
rad72	5.35920e-09	1.000000	3.30081e-08	1.000000
rad40syn	3.52157e-09	1.000000	2.16899e-08	1.000000
rad61	3.50342e-09	1.000000	2.15781e-08	1.000000
rad42	2.39318e-09	1.000000	1.47399e-08	1.000000
rad40anti	2.09783e-09	1.000000	1.29208e-08	1.000000
rad41	5.64325e-10	1.000000	3.47576e-09	1.000000
rad6	7.74036e-13	1.000000	4.76740e-12	1.000000
rad23	3.29692e-14	1.000000	2.03062e-13	1.000000
rad22	5.56105e-15	1.000000	3.42513e-14	1.000000
rad45	5.00870e-15	1.000000	3.08493e-14	1.000000
rad7	2.70131e-15	1.000000	1.66378e-14	1.000000
rad11	2.49398e-15	1.000000	1.53608e-14	1.000000
rad28	1.72342e-15	1.000000	1.06148e-14	1.000000
rad9	1.33176e-15	1.000000	8.20250e-15	1.000000
rad20	1.26283e-15	1.000000	7.77797e-15	1.000000
rad36	8.51382e-16	1.000000	5.24379e-15	1.000000
rad21	6.65178e-16	1.000000	4.09693e-15	1.000000
rad18	5.81036e-16	1.000000	3.57869e-15	1.000000
rad13	1.40338e-16	1.000000	8.64363e-16	1.000000
rad15	6.72967e-17	1.000000	4.14490e-16	1.000000
rad26	4.54938e-17	1.000000	2.80203e-16	1.000000
rad10	2.38338e-17	1.000000	1.46796e-16	1.000000
rad24	1.70134e-17	1.000000	1.04788e-16	1.000000
rad2	1.03986e-17	1.000000	6.40464e-17	1.000000
rad12	4.26945e-18	1.000000	2.62962e-17	1.000000
rad33	3.32918e-18	1.000000	2.05049e-17	1.000000
rad1	2.63873e-18	1.000000	1.62523e-17	1.000000
rad8	1.74118e-18	1.000000	1.07242e-17	1.000000
rad25	1.29129e-18	1.000000	7.95327e-18	1.000000
rad3	8.44452e-19	1.000000	5.20111e-18	1.000000
rad4	5.36191e-19	1.000000	3.30248e-18	1.000000
rad14	5.21560e-20	1.000000	3.21236e-19	1.000000
rad47	2.44663e-20	1.000000	1.50692e-19	1.000000
rad5	1.25628e-20	1.000000	7.73761e-20	1.000000
rad27	9.07045e-21	1.000000	5.58662e-20	1.000000

0.100000000E-05 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.47588e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866428	0.866428	0.00000	0.00000
Indene+H	0.0943885	0.960816	0.706650	0.706650
PhCH2CCH+H	0.0189358	0.979752	0.141765	0.848415
Ph+Allene	0.0101088	0.989861	0.0756807	0.924096
PhCHCCH2+H	0.00579099	0.995652	0.0433549	0.967451
PAH9+H	0.000765251	0.996417	0.00572913	0.973180
PhCCH+CH3	0.000550354	0.996968	0.00412028	0.977300
PAH3+H	0.000526246	0.997494	0.00393980	0.981240
rad19anti	0.000486607	0.997981	0.00364303	0.984883
rad38	0.000411538	0.998392	0.00308103	0.987964
rad30	0.000378289	0.998770	0.00283210	0.990796
PAH7+H	0.000350388	0.999121	0.00262322	0.993419
Ph+MeAc	0.000164748	0.999286	0.00123340	0.994653

rad35	0.000155515	0.999441	0.00116428	0.995817
rad46	0.000120109	0.999561	0.000899212	0.996716
rad50	9.58270e-05	0.999657	0.000717420	0.997434
rad39	7.87039e-05	0.999736	0.000589225	0.998023
rad59	4.92026e-05	0.999785	0.000368361	0.998391
rad60syn	4.01110e-05	0.999825	0.000300295	0.998691
PhCCCH3+H	3.61306e-05	0.999861	0.000270495	0.998962
rad51	2.92772e-05	0.999890	0.000219187	0.999181
rad60anti	2.75040e-05	0.999918	0.000205912	0.999387
rad67	2.43946e-05	0.999942	0.000182633	0.999570
rad19syn	1.17085e-05	0.999954	8.76566e-05	0.999657
rad52	8.84586e-06	0.999963	6.62255e-05	0.999723
PAH10+CH3	7.72771e-06	0.999971	5.78543e-05	0.999781
PhcycC3H3_A+H	7.44556e-06	0.999978	5.57420e-05	0.999837
rad58	5.03691e-06	0.999983	3.77093e-05	0.999875
rad54	4.34710e-06	0.999987	3.25450e-05	0.999907
rad37	3.43690e-06	0.999991	2.57307e-05	0.999933
PAH1+H	2.74924e-06	0.999994	2.05825e-05	0.999954
rad70	2.09354e-06	0.999996	1.56735e-05	0.999969
rad71	1.06961e-06	0.999997	8.00777e-06	0.999977
rad65	8.19688e-07	0.999998	6.13669e-06	0.999983
rad73	7.43910e-07	0.999998	5.56936e-06	0.999989
rad34	5.52321e-07	0.999999	4.13501e-06	0.999993
rad55	3.53324e-07	0.999999	2.64520e-06	0.999996
PAH8+H	1.14510e-07	0.999999	8.57294e-07	0.999997
rad53	9.72438e-08	0.999999	7.28027e-07	0.999997
rad56	9.21215e-08	1.000000	6.89678e-07	0.999998
rad62	6.00485e-08	1.000000	4.49560e-07	0.999999
rad64	5.57952e-08	1.000000	4.17717e-07	0.999999
rad72	4.29765e-08	1.000000	3.21748e-07	0.999999
rad68syn	4.11172e-08	1.000000	3.07828e-07	1.000000
rad68anti	2.65281e-08	1.000000	1.98605e-07	1.000000
rad43	2.20258e-08	1.000000	1.64898e-07	1.000000
rad61	1.54174e-08	1.000000	1.15424e-07	1.000000
rad40syn	1.44056e-08	1.000000	1.07849e-07	1.000000
rad40anti	9.08224e-09	1.000000	6.79952e-08	1.000000
rad42	4.93493e-09	1.000000	3.69459e-08	1.000000
rad41	1.99345e-09	1.000000	1.49241e-08	1.000000
rad6	9.80065e-14	1.000000	7.33736e-13	1.000000
rad23	1.73573e-14	1.000000	1.29947e-13	1.000000
rad45	1.66528e-15	1.000000	1.24673e-14	1.000000
rad22	1.52682e-15	1.000000	1.14307e-14	1.000000
rad9	6.77369e-16	1.000000	5.07120e-15	1.000000
rad11	5.37264e-16	1.000000	4.02228e-15	1.000000
rad20	5.29552e-16	1.000000	3.96455e-15	1.000000
rad7	4.21502e-16	1.000000	3.15562e-15	1.000000
rad28	3.28663e-16	1.000000	2.46057e-15	1.000000
rad36	2.91152e-16	1.000000	2.17974e-15	1.000000
rad21	2.72287e-16	1.000000	2.03851e-15	1.000000
rad18	1.62503e-16	1.000000	1.21659e-15	1.000000
rad15	3.62738e-17	1.000000	2.71567e-16	1.000000
rad13	3.15025e-17	1.000000	2.35847e-16	1.000000
rad24	9.49359e-18	1.000000	7.10748e-17	1.000000
rad26	6.44863e-18	1.000000	4.82784e-17	1.000000
rad12	3.72963e-18	1.000000	2.79223e-17	1.000000
rad10	2.40296e-18	1.000000	1.79900e-17	1.000000
rad8	2.00223e-18	1.000000	1.49899e-17	1.000000
rad33	1.02784e-18	1.000000	7.69507e-18	1.000000
rad2	9.69523e-19	1.000000	7.25844e-18	1.000000
rad25	5.51560e-19	1.000000	4.12931e-18	1.000000
rad1	2.59944e-19	1.000000	1.94610e-18	1.000000
rad3	1.46248e-19	1.000000	1.09490e-18	1.000000
rad4	9.34765e-20	1.000000	6.99822e-19	1.000000
rad47	6.72667e-20	1.000000	5.03600e-19	1.000000
rad5	1.86983e-20	1.000000	1.39987e-19	1.000000
rad14	1.43912e-20	1.000000	1.07741e-19	1.000000
rad27	2.36914e-21	1.000000	1.77368e-20	1.000000

0.100000000E-05 Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	3.29136e-13 (1.00)	4.00875e-14 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.878204	0.878204	0.00000	0.00000
Indene+H	0.0703003	0.948504	0.577195	0.577195
PhCH2CCH+H	0.0277459	0.976250	0.227806	0.805001
Ph+Allene	0.0105974	0.986848	0.0870088	0.892010

PhCHCCH2+H	0.00765656	0.994504	0.0628636	0.954873
PAH9+H	0.000941856	0.995446	0.00773304	0.962606
PAH3+H	0.000857236	0.996303	0.00703827	0.969645
rad19anti	0.000629228	0.996932	0.00516623	0.974811
rad38	0.000525523	0.997458	0.00431476	0.979126
PAH7+H	0.000454502	0.997913	0.00373165	0.982857
rad30	0.000417263	0.998330	0.00342591	0.986283
PhCCH+CH3	0.000383697	0.998713	0.00315031	0.989434
rad35	0.000200865	0.998914	0.00164918	0.991083
Ph+MeAc	0.000197882	0.999112	0.00162470	0.992707
rad50	0.000170940	0.999283	0.00140349	0.994111
rad46	0.000166540	0.999450	0.00136737	0.995478
rad39	0.000118806	0.999568	0.000975445	0.996454
rad59	7.57691e-05	0.999644	0.000622096	0.997076
rad51	6.22686e-05	0.999707	0.000511251	0.997587
rad60syn	5.44510e-05	0.999761	0.000447066	0.998034
PhCCCH3+H	5.15901e-05	0.999813	0.000423577	0.998458
rad67	4.61782e-05	0.999859	0.000379142	0.998837
rad60anti	3.79865e-05	0.999897	0.000311885	0.999149
PAH10+CH3	1.71933e-05	0.999914	0.000141164	0.999290
rad52	1.70844e-05	0.999931	0.000140270	0.999430
rad19syn	1.63932e-05	0.999947	0.000134595	0.999565
PhcycC3H3_A+H	1.10275e-05	0.999958	9.05407e-05	0.999655
rad58	1.00660e-05	0.999969	8.26458e-05	0.999738
PAH1+H	5.96728e-06	0.999974	4.89939e-05	0.999787
rad37	5.72356e-06	0.999980	4.69928e-05	0.999834
rad54	5.39698e-06	0.999986	4.43115e-05	0.999878
rad71	3.95691e-06	0.999990	3.24879e-05	0.999911
rad70	3.69403e-06	0.999993	3.03296e-05	0.999941
rad73	2.41459e-06	0.999996	1.98248e-05	0.999961
rad65	1.68525e-06	0.999997	1.38367e-05	0.999975
rad34	1.08371e-06	0.999998	8.89771e-06	0.999984
rad55	4.74067e-07	0.999999	3.89229e-06	0.999988
PAH8+H	3.91946e-07	0.999999	3.21804e-06	0.999991
rad72	2.09318e-07	1.000000	1.71859e-06	0.999992
rad56	1.86168e-07	1.000000	1.52852e-06	0.999994
rad53	1.73183e-07	1.000000	1.42191e-06	0.999995
rad64	1.33616e-07	1.000000	1.09704e-06	0.999997
rad68syn	1.10265e-07	1.000000	9.05322e-07	0.999997
rad62	9.48259e-08	1.000000	7.78561e-07	0.999998
rad68anti	7.08807e-08	1.000000	5.81961e-07	0.999999
rad43	4.82400e-08	1.000000	3.96071e-07	0.999999
rad61	4.62524e-08	1.000000	3.79752e-07	1.000000
rad40syn	4.43238e-08	1.000000	3.63917e-07	1.000000
rad40anti	2.91751e-08	1.000000	2.39540e-07	1.000000
rad42	1.00367e-08	1.000000	8.24055e-08	1.000000
rad41	5.35211e-09	1.000000	4.39431e-08	1.000000
rad6	1.24407e-14	1.000000	1.02143e-13	1.000000
rad23	4.76025e-15	1.000000	3.90837e-14	1.000000
rad45	6.43573e-16	1.000000	5.28401e-15	1.000000
rad22	3.96245e-16	1.000000	3.25334e-15	1.000000
rad9	3.51737e-16	1.000000	2.88791e-15	1.000000
rad20	2.60557e-16	1.000000	2.13928e-15	1.000000
rad11	1.62856e-16	1.000000	1.33712e-15	1.000000
rad21	1.30011e-16	1.000000	1.06745e-15	1.000000
rad36	1.15195e-16	1.000000	9.45798e-16	1.000000
rad7	9.44146e-17	1.000000	7.75184e-16	1.000000
rad18	6.17423e-17	1.000000	5.06931e-16	1.000000
rad28	5.07665e-17	1.000000	4.16814e-16	1.000000
rad15	2.10991e-17	1.000000	1.73232e-16	1.000000
rad13	8.56531e-18	1.000000	7.03248e-17	1.000000
rad24	5.70002e-18	1.000000	4.67996e-17	1.000000
rad12	3.05351e-18	1.000000	2.50707e-17	1.000000
rad26	2.24979e-18	1.000000	1.84717e-17	1.000000
rad8	2.16858e-18	1.000000	1.78050e-17	1.000000
rad10	7.20132e-19	1.000000	5.91259e-18	1.000000
rad33	3.63727e-19	1.000000	2.98636e-18	1.000000
rad25	2.84538e-19	1.000000	2.33618e-18	1.000000
rad2	1.46860e-19	1.000000	1.20578e-18	1.000000
rad47	1.41374e-19	1.000000	1.16074e-18	1.000000
rad1	4.32884e-20	1.000000	3.55416e-19	1.000000
rad3	3.18656e-20	1.000000	2.61630e-19	1.000000
rad5	2.08627e-20	1.000000	1.71292e-19	1.000000
rad4	2.02979e-20	1.000000	1.66654e-19	1.000000
rad14	5.33284e-21	1.000000	4.37849e-20	1.000000
rad27	1.32553e-21	1.000000	1.08832e-20	1.000000

0.100000000E-05 Pa, 2500.00000 K

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Rate constant | True (fraction) Effective (fraction)

 Total | 5.32896e-13 (1.00) 6.40311e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.879843	0.879843	0.00000	0.00000
Indene+H	0.0541638	0.934007	0.450777	0.450777
PhCH2CCH+H	0.0379681	0.971975	0.315989	0.766766
Ph+Allene	0.0112444	0.983219	0.0935810	0.860347
PhCHCCH2+H	0.00999485	0.993214	0.0831818	0.943529
PAH3+H	0.00124356	0.994458	0.0103495	0.953878
PAH9+H	0.00106545	0.995523	0.00886715	0.962745
rad19anti	0.000731028	0.996254	0.00608396	0.968829
rad38	0.000614393	0.996869	0.00511327	0.973943
PAH7+H	0.000586817	0.997455	0.00488376	0.978826
rad30	0.000442203	0.997898	0.00368022	0.982507
PhCCH+CH3	0.000309130	0.998207	0.00257273	0.985079
rad50	0.000261677	0.998468	0.00217780	0.987257
Ph+MeAc	0.000256973	0.998725	0.00213865	0.989396
rad35	0.000242192	0.998968	0.00201564	0.991411
rad46	0.000207878	0.999175	0.00173006	0.993142
rad39	0.000175772	0.999351	0.00146285	0.994604
rad51	0.000109649	0.999461	0.000912547	0.995517
rad59	0.000104825	0.999566	0.000872406	0.996389
rad67	7.34547e-05	0.999639	0.000611325	0.997001
PhCCCH3+H	7.22810e-05	0.999711	0.000601557	0.997602
rad60syn	6.81857e-05	0.999780	0.000567474	0.998170
rad60anti	4.82378e-05	0.999828	0.000401457	0.998571
PAH10+CH3	3.08998e-05	0.999859	0.000257163	0.998828
rad52	2.78077e-05	0.999887	0.000231429	0.999060
rad19syn	2.34810e-05	0.999910	0.000195420	0.999255
rad58	1.71635e-05	0.999927	0.000142842	0.999398
PhcycC3H3_A+H	1.49440e-05	0.999942	0.000124371	0.999522
PAH1+H	1.13017e-05	0.999953	9.40581e-05	0.999616
rad71	1.08628e-05	0.999964	9.04053e-05	0.999707
rad37	8.12868e-06	0.999972	6.76507e-05	0.999774
rad54	6.28002e-06	0.999979	5.22652e-05	0.999827
rad70	5.97099e-06	0.999985	4.96933e-05	0.999876
rad73	5.95726e-06	0.999991	4.95791e-05	0.999926
rad65	2.87595e-06	0.999994	2.39350e-05	0.999950
rad34	1.90624e-06	0.999995	1.58647e-05	0.999966
PAH8+H	1.06524e-06	0.999997	8.86540e-06	0.999975
rad72	7.14903e-07	0.999997	5.94976e-06	0.999981
rad55	5.87553e-07	0.999998	4.88989e-06	0.999986
rad56	3.21872e-07	0.999998	2.67877e-06	0.999988
rad64	2.70855e-07	0.999998	2.25419e-06	0.999990
rad53	2.70820e-07	0.999999	2.25389e-06	0.999993
rad68syn	2.47504e-07	0.999999	2.05985e-06	0.999995
rad68anti	1.58683e-07	0.999999	1.32064e-06	0.999996
rad62	1.55148e-07	0.999999	1.29122e-06	0.999997
rad40syn	1.10734e-07	0.999999	9.21579e-07	0.999998
rad61	1.05680e-07	0.999999	8.79519e-07	0.999999
rad43	8.79692e-08	1.000000	7.32121e-07	1.000000
rad40anti	7.53435e-08	1.000000	6.27044e-07	1.000000
rad42	1.97239e-08	1.000000	1.64152e-07	1.000000
rad41	1.13877e-08	1.000000	9.47734e-08	1.000000
rad6	2.25528e-15	1.000000	1.87695e-14	1.000000
rad23	1.45954e-15	1.000000	1.21470e-14	1.000000
rad45	2.79851e-16	1.000000	2.32906e-15	1.000000
rad9	1.87019e-16	1.000000	1.55646e-15	1.000000
rad20	1.43940e-16	1.000000	1.19794e-15	1.000000
rad22	1.35198e-16	1.000000	1.12518e-15	1.000000
rad21	6.94971e-17	1.000000	5.78387e-16	1.000000
rad11	6.25792e-17	1.000000	5.20813e-16	1.000000
rad36	5.10699e-17	1.000000	4.25028e-16	1.000000
rad18	2.77736e-17	1.000000	2.31145e-16	1.000000
rad7	2.64635e-17	1.000000	2.20242e-16	1.000000
rad15	1.25426e-17	1.000000	1.04385e-16	1.000000
rad28	1.20791e-17	1.000000	1.00528e-16	1.000000
rad24	3.60418e-18	1.000000	2.99957e-17	1.000000
rad13	2.74547e-18	1.000000	2.28491e-17	1.000000
rad12	2.40046e-18	1.000000	1.99778e-17	1.000000
rad8	2.25267e-18	1.000000	1.87478e-17	1.000000
rad26	1.24984e-18	1.000000	1.04018e-17	1.000000
rad10	4.03130e-19	1.000000	3.35504e-18	1.000000
rad47	2.44566e-19	1.000000	2.03539e-18	1.000000
rad25	1.71221e-19	1.000000	1.42498e-18	1.000000
rad33	1.46760e-19	1.000000	1.22141e-18	1.000000
rad2	4.53267e-20	1.000000	3.77230e-19	1.000000
rad5	2.16435e-20	1.000000	1.80127e-19	1.000000

rad1	1.54334e-20	1.000000	1.28444e-19	1.00000
rad3	8.70888e-21	1.000000	7.24794e-20	1.00000
rad4	5.46493e-21	1.000000	4.54817e-20	1.00000
rad14	2.68051e-21	1.000000	2.23085e-20	1.00000
rad27	1.07389e-21	1.000000	8.93744e-21	1.00000

0.100000000E-05 Pa, 2750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.05113e-13 (1.00)	1.00487e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.875189	0.875189	0.00000	0.00000
PhCH2CCH+H	0.0492371	0.924426	0.394492	0.394492
Indene+H	0.0427171	0.967143	0.342254	0.736746
PhCHCCH2+H	0.0126523	0.979795	0.101371	0.838117
Ph+Allene	0.0121360	0.991931	0.0972347	0.935352
PAH3+H	0.00165412	0.993586	0.0132530	0.948605
PAH9+H	0.00112924	0.994715	0.00904761	0.957652
rad19anti	0.000790044	0.995505	0.00632991	0.963982
PAH7+H	0.000729333	0.996234	0.00584349	0.969826
rad38	0.000670521	0.996905	0.00537228	0.975198
rad30	0.000454283	0.997359	0.00363976	0.978838
rad50	0.000356822	0.997716	0.00285889	0.981697
Ph+MeAc	0.000331297	0.998047	0.00265438	0.984351
PhCCH+CH3	0.000293338	0.998340	0.00235025	0.986701
rad35	0.000276886	0.998617	0.00221844	0.988920
rad39	0.000242689	0.998860	0.00194445	0.990864
rad46	0.000239377	0.999099	0.00191791	0.992782
rad51	0.000167552	0.999267	0.00134245	0.994125
rad59	0.000133898	0.999401	0.00107280	0.995197
rad67	0.000103303	0.999504	0.000827674	0.996025
PhCCCH3+H	9.47597e-05	0.999599	0.000759224	0.996784
rad60syn	8.03400e-05	0.999679	0.000643692	0.997428
rad60anti	5.74980e-05	0.999737	0.000460680	0.997889
PAH10+CH3	4.75540e-05	0.999784	0.000381007	0.998270
rad52	3.97965e-05	0.999824	0.000318854	0.998588
rad19syn	3.43481e-05	0.999858	0.000275200	0.998864
rad58	2.60271e-05	0.999885	0.000208532	0.999072
rad71	2.39120e-05	0.999908	0.000191585	0.999264
PhcycC3H3_A+H	1.91124e-05	0.999928	0.000153131	0.999417
PAH1+H	1.89313e-05	0.999946	0.000151679	0.999569
rad73	1.19963e-05	0.999958	9.61159e-05	0.999665
rad37	1.02458e-05	0.999969	8.20902e-05	0.999747
rad70	8.97456e-06	0.999978	7.19051e-05	0.999819
rad54	7.04852e-06	0.999985	5.64734e-05	0.999875
rad65	4.27356e-06	0.999989	3.42402e-05	0.999909
rad34	3.06724e-06	0.999992	2.45750e-05	0.999934
PAH8+H	2.42508e-06	0.999995	1.94299e-05	0.999953
rad72	1.88022e-06	0.999996	1.50645e-05	0.999968
rad55	6.94535e-07	0.999997	5.56468e-06	0.999974
rad56	5.00306e-07	0.999998	4.00850e-06	0.999978
rad68syn	4.83458e-07	0.999998	3.87351e-06	0.999982
rad64	4.76899e-07	0.999999	3.82096e-06	0.999986
rad53	3.88200e-07	0.999999	3.11030e-06	0.999989
rad68anti	3.09361e-07	0.999999	2.47863e-06	0.999991
rad62	2.47711e-07	0.999999	1.98468e-06	0.999993
rad40syn	2.35491e-07	1.000000	1.88678e-06	0.999995
rad61	1.98411e-07	1.000000	1.58969e-06	0.999997
rad40anti	1.64464e-07	1.00000	1.31770e-06	0.999998
rad43	1.38326e-07	1.00000	1.10828e-06	0.999999
rad42	3.59374e-08	1.00000	2.87934e-07	1.000000
rad41	2.03340e-08	1.00000	1.62918e-07	1.000000
rad23	5.35648e-16	1.00000	4.29167e-15	1.000000
rad6	5.31695e-16	1.00000	4.25999e-15	1.000000
rad45	1.33230e-16	1.00000	1.06745e-15	1.000000
rad9	1.02248e-16	1.00000	8.19219e-16	1.000000
rad20	8.68783e-17	1.00000	6.96077e-16	1.000000
rad22	5.53892e-17	1.00000	4.43783e-16	1.000000
rad21	4.05053e-17	1.00000	3.24532e-16	1.000000
rad11	2.91949e-17	1.00000	2.33912e-16	1.000000
rad36	2.46981e-17	1.00000	1.97884e-16	1.000000
rad18	1.40097e-17	1.00000	1.12247e-16	1.000000
rad7	8.87341e-18	1.00000	7.10946e-17	1.000000
rad15	7.56453e-18	1.00000	6.06077e-17	1.000000
rad28	4.35951e-18	1.00000	3.49288e-17	1.000000
rad24	2.36701e-18	1.00000	1.89647e-17	1.000000
rad8	2.27048e-18	1.00000	1.81913e-17	1.000000

rad12	1.84640e-18	1.00000	1.47935e-17	1.000000
rad13	1.02991e-18	1.00000	8.25176e-18	1.000000
rad26	7.74816e-19	1.00000	6.20790e-18	1.000000
rad47	3.65965e-19	1.00000	2.93215e-18	1.000000
rad10	2.66191e-19	1.00000	2.13275e-18	1.000000
rad25	1.16293e-19	1.00000	9.31748e-19	1.000000
rad33	6.71473e-20	1.00000	5.37991e-19	1.000000
rad2	2.31789e-20	1.00000	1.85712e-19	1.000000
rad5	2.15491e-20	1.00000	1.72654e-19	1.000000
rad1	9.06403e-21	1.00000	7.26219e-20	1.000000
rad3	2.95575e-21	1.00000	2.36818e-20	1.000000
rad4	1.80893e-21	1.00000	1.44934e-20	1.000000
rad14	1.77541e-21	1.00000	1.42248e-20	1.000000
rad27	9.32033e-22	1.00000	7.46754e-21	1.000000

0.100000000E-05 Pa, 3000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.15309e-12 (1.00)	1.53862e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866566	0.866566	0.00000	0.00000
PhCH2CCH+H	0.0611725	0.927738	0.458447	0.458447
Indene+H	0.0342672	0.962006	0.256810	0.715257
PhCHCCH2+H	0.0154790	0.977485	0.116005	0.831262
Ph+Allene	0.0132660	0.990751	0.0994201	0.930682
PAH3+H	0.00205938	0.992810	0.0154337	0.946116
PAH9+H	0.00113813	0.993948	0.00852950	0.954645
PAH7+H	0.000866135	0.994814	0.00649110	0.961136
rad19anti	0.000812999	0.995627	0.00609288	0.967229
rad38	0.000693215	0.996321	0.00519518	0.972424
rad30	0.000455427	0.996776	0.00341312	0.975838
rad50	0.000445147	0.997221	0.00333608	0.979174
Ph+MeAc	0.000411378	0.997633	0.00308300	0.982257
PhCCH+CH3	0.000319072	0.997952	0.00239123	0.984648
rad39	0.000311351	0.998263	0.00233337	0.986981
rad35	0.000303822	0.998567	0.00227694	0.989258
rad46	0.000258929	0.998826	0.00194050	0.991199
rad51	0.000229661	0.999055	0.00172116	0.992920
rad59	0.000160966	0.999216	0.00120633	0.994126
rad67	0.000132859	0.999349	0.000995686	0.995122
PhCCCH3+H	0.000117527	0.999467	0.000880786	0.996003
rad60syn	9.03378e-05	0.999557	0.000677021	0.996680
PAH10+CH3	6.53522e-05	0.999622	0.000489771	0.997169
rad60anti	6.52879e-05	0.999688	0.000489289	0.997659
rad52	5.15998e-05	0.999739	0.000386706	0.998045
rad19syn	5.01057e-05	0.999789	0.000375508	0.998421
rad71	4.45158e-05	0.999834	0.000333616	0.998755
rad58	3.61220e-05	0.999870	0.000270710	0.999025
PAH1+H	2.86271e-05	0.999899	0.000214541	0.999240
PhcycC3H3_A+H	2.34369e-05	0.999922	0.000175644	0.999415
rad73	2.07080e-05	0.999943	0.000155192	0.999571
rad70	1.26564e-05	0.999955	9.48509e-05	0.999666
rad37	1.18404e-05	0.999967	8.87361e-05	0.999754
rad54	7.74183e-06	0.999975	5.80198e-05	0.999812
rad65	5.71876e-06	0.999981	4.28583e-05	0.999855
PAH8+H	4.80152e-06	0.999986	3.59842e-05	0.999891
rad34	4.57469e-06	0.999990	3.42843e-05	0.999925
rad72	4.05904e-06	0.999994	3.04198e-05	0.999956
rad68syn	8.44302e-07	0.999995	6.32747e-06	0.999962
rad55	7.96394e-07	0.999996	5.96844e-06	0.999968
rad64	7.49015e-07	0.999997	5.61336e-06	0.999974
rad56	7.20451e-07	0.999997	5.39929e-06	0.999979
rad68anti	5.39463e-07	0.999998	4.04291e-06	0.999983
rad53	5.23143e-07	0.999998	3.92061e-06	0.999987
rad40syn	4.40707e-07	0.999999	3.30280e-06	0.999990
rad62	3.72784e-07	0.999999	2.79376e-06	0.999993
rad61	3.22478e-07	0.999999	2.41676e-06	0.999996
rad40anti	3.14359e-07	1.000000	2.35591e-06	0.999998
rad43	1.94896e-07	1.00000	1.46061e-06	0.999999
rad42	5.98145e-08	1.00000	4.48269e-07	1.000000
rad41	3.19484e-08	1.00000	2.39432e-07	1.00000
rad23	2.21024e-16	1.00000	1.65643e-15	1.00000
rad6	1.53637e-16	1.00000	1.15140e-15	1.00000
rad45	6.79783e-17	1.00000	5.09452e-16	1.00000
rad9	5.76875e-17	1.00000	4.32329e-16	1.00000
rad20	5.61879e-17	1.00000	4.21090e-16	1.00000
rad22	2.56756e-17	1.00000	1.92421e-16	1.00000

rad21	2.52565e-17	1.00000	1.89281e-16	1.00000
rad11	1.59313e-17	1.00000	1.19394e-16	1.00000
rad36	1.27644e-17	1.00000	9.56605e-17	1.00000
rad18	7.69597e-18	1.00000	5.76761e-17	1.00000
rad15	4.64698e-18	1.00000	3.48260e-17	1.00000
rad7	3.48731e-18	1.00000	2.61351e-17	1.00000
rad8	2.23533e-18	1.00000	1.67523e-17	1.00000
rad28	2.05581e-18	1.00000	1.54069e-17	1.00000
rad24	1.60028e-18	1.00000	1.19931e-17	1.00000
rad12	1.40784e-18	1.00000	1.05508e-17	1.00000
rad26	4.93148e-19	1.00000	3.69581e-18	1.00000
rad47	4.90428e-19	1.00000	3.67543e-18	1.00000
rad13	4.47286e-19	1.00000	3.35211e-18	1.00000
rad10	1.80871e-19	1.00000	1.35551e-18	1.00000
rad25	8.60189e-20	1.00000	6.44654e-19	1.00000
rad33	3.44368e-20	1.00000	2.58081e-19	1.00000
rad5	2.09165e-20	1.00000	1.56755e-19	1.00000
rad2	1.42584e-20	1.00000	1.06857e-19	1.00000
rad1	6.30643e-21	1.00000	4.72625e-20	1.00000
rad14	1.40237e-21	1.00000	1.05098e-20	1.00000
rad3	1.21870e-21	1.00000	9.13336e-21	1.00000
rad27	8.01836e-22	1.00000	6.00923e-21	1.00000
rad4	7.23983e-22	1.00000	5.42577e-21	1.00000

0.100000000E-05 Pa, 3250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.58309e-12 (1.00)	2.28795e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.855476	0.855476	0.00000	0.00000
PhCH2CCH+H	0.0734301	0.928906	0.508082	0.508082
Indene+H	0.0278643	0.956770	0.192800	0.700882
PhCHCCH2+H	0.0183610	0.975131	0.127045	0.827927
Ph+Allene	0.0145940	0.989725	0.100980	0.928907
PAH3+H	0.00243645	0.992162	0.0168585	0.945765
PAH9+H	0.00110339	0.993265	0.00763468	0.953400
PAH7+H	0.000986571	0.994252	0.00682634	0.960227
rad19anti	0.000808911	0.995061	0.00559707	0.965824
rad38	0.000686670	0.995747	0.00475125	0.970575
rad50	0.000518179	0.996266	0.00358542	0.974160
Ph+MeAc	0.000489465	0.996755	0.00338674	0.977547
rad30	0.000447972	0.997203	0.00309964	0.980647
PhCCH+CH3	0.000378211	0.997581	0.00261694	0.983264
rad39	0.000374434	0.997956	0.00259081	0.985854
rad35	0.000323023	0.998279	0.00223508	0.988089
rad51	0.000289245	0.998568	0.00200136	0.990091
rad46	0.000266714	0.998835	0.00184546	0.991936
rad59	0.000184695	0.999019	0.00127795	0.993214
rad67	0.000159865	0.999179	0.00110614	0.994320
PhCCCH3+H	0.000140367	0.999320	0.000971235	0.995292
rad60syn	9.79791e-05	0.999418	0.000677943	0.995970
PAH10+CH3	8.26142e-05	0.999500	0.000571630	0.996541
rad71	7.28074e-05	0.999573	0.000503773	0.997045
rad60anti	7.14060e-05	0.999644	0.000494077	0.997539
rad19syn	7.13406e-05	0.999716	0.000493624	0.998033
rad52	6.19533e-05	0.999778	0.000428671	0.998461
rad58	4.68388e-05	0.999825	0.000324090	0.998785
PAH1+H	3.98744e-05	0.999864	0.000275902	0.999061
rad73	3.17350e-05	0.999896	0.000219583	0.999281
PhcycC3H3_A+H	2.77967e-05	0.999924	0.000192333	0.999473
rad70	1.68825e-05	0.999941	0.000116814	0.999590
rad37	1.28499e-05	0.999954	8.89115e-05	0.999679
PAH8+H	8.50457e-06	0.999962	5.88453e-05	0.999738
rad54	8.38235e-06	0.999971	5.79997e-05	0.999796
rad72	7.52648e-06	0.999978	5.20777e-05	0.999848
rad65	7.06074e-06	0.999985	4.88551e-05	0.999897
rad34	6.39568e-06	0.999992	4.42534e-05	0.999941
rad68syn	1.34606e-06	0.999993	9.31375e-06	0.999950
rad64	1.07438e-06	0.999994	7.43389e-06	0.999958
rad56	9.79690e-07	0.999995	6.77873e-06	0.999965
rad55	8.93999e-07	0.999996	6.18581e-06	0.999971
rad68anti	8.59058e-07	0.999997	5.94405e-06	0.999977
rad40syn	7.44327e-07	0.999997	5.15020e-06	0.999982
rad53	6.73265e-07	0.999998	4.65850e-06	0.999986
rad40anti	5.40357e-07	0.999999	3.73887e-06	0.999990
rad62	5.25220e-07	0.999999	3.63414e-06	0.999994
rad61	4.70536e-07	1.000000	3.25576e-06	0.999997

rad43	2.53715e-07	1.000000	1.75552e-06	0.999999
rad42	9.14458e-08	1.000000	6.32737e-07	0.999999
rad41	4.57450e-08	1.000000	3.16522e-07	1.000000
rad23	9.91775e-17	1.000000	6.86235e-16	1.000000
rad6	5.29918e-17	1.000000	3.66664e-16	1.000000
rad20	3.83869e-17	1.000000	2.65609e-16	1.000000
rad45	3.66269e-17	1.000000	2.53431e-16	1.000000
rad9	3.36555e-17	1.000000	2.32872e-16	1.000000
rad21	1.66173e-17	1.000000	1.14980e-16	1.000000
rad22	1.30762e-17	1.000000	9.04775e-17	1.000000
rad11	9.80858e-18	1.000000	6.78681e-17	1.000000
rad36	6.94793e-18	1.000000	4.80745e-17	1.000000
rad18	4.51591e-18	1.000000	3.12467e-17	1.000000
rad15	2.91811e-18	1.000000	2.01912e-17	1.000000
rad8	2.15817e-18	1.000000	1.49330e-17	1.000000
rad7	1.57407e-18	1.000000	1.08914e-17	1.000000
rad28	1.13063e-18	1.000000	7.82311e-18	1.000000
rad24	1.10778e-18	1.000000	7.66503e-18	1.000000
rad12	1.07284e-18	1.000000	7.42324e-18	1.000000
rad47	6.03541e-19	1.000000	4.17606e-18	1.000000
rad26	3.17886e-19	1.000000	2.19954e-18	1.000000
rad13	2.21088e-19	1.000000	1.52977e-18	1.000000
rad10	1.23657e-19	1.000000	8.55618e-19	1.000000
rad25	6.72544e-20	1.000000	4.65351e-19	1.000000
rad5	2.00807e-20	1.000000	1.38943e-19	1.000000
rad33	1.94932e-20	1.000000	1.34878e-19	1.000000
rad2	9.35585e-21	1.000000	6.47356e-20	1.000000
rad1	4.62553e-21	1.000000	3.20053e-20	1.000000
rad14	1.20218e-21	1.000000	8.31820e-21	1.000000
rad27	6.78839e-22	1.000000	4.69707e-21	1.000000
rad3	5.91483e-22	1.000000	4.09263e-21	1.000000
rad4	3.41721e-22	1.000000	2.36446e-21	1.000000

0.100000000E-05 Pa, 3500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.10046e-12 (1.00)	3.29923e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.842928	0.842928	0.00000	0.00000
PhCH2CCH+H	0.0857241	0.928652	0.545762	0.545762
Indene+H	0.0229287	0.951581	0.145976	0.691738
PhCHCCH2+H	0.0212218	0.972803	0.135108	0.826846
Ph+Allene	0.0160719	0.988874	0.102322	0.929168
PAH3+H	0.00277080	0.991645	0.0176403	0.946808
PAH7+H	0.00108547	0.992731	0.00691065	0.953719
PAH9+H	0.00103824	0.993769	0.00660998	0.960329
rad19anti	0.000786012	0.994555	0.00500415	0.965333
rad38	0.000657575	0.995213	0.00418645	0.969520
rad50	0.000571322	0.995784	0.00363732	0.973157
Ph+MeAc	0.000559758	0.996344	0.00356370	0.976721
PhCCH+CH3	0.000466753	0.996810	0.00297158	0.979692
rad30	0.000434295	0.997245	0.00276494	0.982457
rad39	0.000426787	0.997672	0.00271714	0.985174
rad51	0.000340822	0.998012	0.00216985	0.987344
rad35	0.000335221	0.998348	0.00213419	0.989478
rad46	0.000264413	0.998612	0.00168339	0.991162
rad59	0.000204435	0.998816	0.00130154	0.992463
rad67	0.000182834	0.998999	0.00116401	0.993627
PhCCCH3+H	0.000163685	0.999163	0.00104210	0.994669
rad71	0.000107601	0.999271	0.000685042	0.995354
rad60syn	0.000103349	0.999374	0.000657969	0.996012
PAH10+CH3	9.81181e-05	0.999472	0.000624669	0.996637
rad19syn	9.79725e-05	0.999570	0.000623742	0.997261
rad60anti	7.58697e-05	0.999646	0.000483025	0.997744
rad52	7.00217e-05	0.999716	0.000445793	0.998190
rad58	5.76196e-05	0.999773	0.000366835	0.998556
PAH1+H	5.20523e-05	0.999826	0.000331391	0.998888
rad73	4.43107e-05	0.999870	0.000282104	0.999170
PhcycC3H3_A+H	3.20633e-05	0.999902	0.000204131	0.999374
rad70	2.14708e-05	0.999923	0.000136694	0.999511
PAH8+H	1.37725e-05	0.999937	8.76827e-05	0.999598
rad37	1.33235e-05	0.999950	8.48243e-05	0.999683
rad72	1.23923e-05	0.999963	7.88958e-05	0.999762
rad54	8.98058e-06	0.999972	5.71749e-05	0.999819
rad34	8.46717e-06	0.999980	5.39063e-05	0.999873
rad65	8.19015e-06	0.999988	5.21426e-05	0.999925
rad68syn	1.99232e-06	0.999990	1.26841e-05	0.999938

rad64	1.43496e-06	0.999992	9.13568e-06	0.999947
rad56	1.27412e-06	0.999993	8.11171e-06	0.999955
rad68anti	1.27030e-06	0.999994	8.08736e-06	0.999963
rad40syn	1.15716e-06	0.999996	7.36708e-06	0.999971
rad55	9.87613e-07	0.999997	6.28764e-06	0.999977
rad40anti	8.52741e-07	0.999997	5.42898e-06	0.999982
rad53	8.35966e-07	0.999998	5.32218e-06	0.999988
rad62	6.97360e-07	0.999999	4.43975e-06	0.999992
rad61	6.32568e-07	1.000000	4.02725e-06	0.999996
rad43	3.12012e-07	1.000000	1.98643e-06	0.999998
rad42	1.30122e-07	1.000000	8.28424e-07	0.999999
rad41	6.11800e-08	1.000000	3.89503e-07	0.999999
rad23	4.75472e-17	1.000000	3.02709e-16	0.999999
rad20	2.74120e-17	1.000000	1.74519e-16	0.999999
rad6	2.13604e-17	1.000000	1.35991e-16	0.999999
rad45	2.06132e-17	1.000000	1.31234e-16	0.999999
rad9	2.03104e-17	1.000000	1.29306e-16	0.999999
rad21	1.14208e-17	1.000000	7.27102e-17	0.999999
rad22	7.18396e-18	1.000000	4.57367e-17	0.999999
rad11	6.60781e-18	1.000000	4.20687e-17	0.999999
rad36	3.94163e-18	1.000000	2.50944e-17	0.999999
rad18	2.79268e-18	1.000000	1.77796e-17	0.999999
rad8	2.04865e-18	1.000000	1.30427e-17	0.999999
rad15	1.87606e-18	1.000000	1.19439e-17	0.999999
rad12	8.20876e-19	1.000000	5.22611e-18	0.999999
rad7	7.97845e-19	1.000000	5.07948e-18	0.999999
rad24	7.82702e-19	1.000000	4.98307e-18	0.999999
rad47	6.94994e-19	1.000000	4.42468e-18	0.999999
rad28	6.78754e-19	1.000000	4.32129e-18	0.999999
rad26	2.07561e-19	1.000000	1.32144e-18	0.999999
rad13	1.21831e-19	1.000000	7.75640e-19	0.999999
rad10	8.52041e-20	1.000000	5.42452e-19	0.999999
rad25	5.44463e-20	1.000000	3.46632e-19	0.999999
rad5	1.92222e-20	1.000000	1.22378e-19	0.999999
rad33	1.19819e-20	1.000000	7.62829e-20	0.999999
rad2	6.39799e-21	1.000000	4.07328e-20	0.999999
rad1	3.47065e-21	1.000000	2.20959e-20	0.999999
rad14	1.06170e-21	1.000000	6.75934e-21	0.999999
rad27	5.69300e-22	1.000000	3.62445e-21	0.999999
rad3	3.26541e-22	1.000000	2.07893e-21	0.999999
rad4	1.84676e-22	1.000000	1.17574e-21	0.999999

0.100000000E-05 Pa, 3750.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.70978e-12 (1.00)	4.61708e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829614	0.829614	0.00000	0.00000
PhCH2CCH+H	0.0978316	0.927446	0.574175	0.574175
PhCHCCH2+H	0.0240141	0.951460	0.140939	0.715114
Indene+H	0.0190788	0.970538	0.111974	0.827088
Ph+Allene	0.0176550	0.988193	0.103617	0.930705
PAH3+H	0.00305565	0.991249	0.0179337	0.948639
PAH7+H	0.00116197	0.992411	0.00681959	0.955458
PAH9+H	0.000955042	0.993366	0.00560515	0.961063
rad19anti	0.000750872	0.994117	0.00440688	0.965470
Ph+MeAc	0.000618509	0.994736	0.00363004	0.969100
rad38	0.000613193	0.995349	0.00359884	0.972699
rad50	0.000603635	0.995952	0.00354274	0.976242
PhCCH+CH3	0.000581835	0.996534	0.00341479	0.979657
rad39	0.000465790	0.997000	0.00273373	0.982390
rad30	0.000416539	0.997417	0.00244467	0.984835
rad51	0.000380994	0.997798	0.00223606	0.987071
rad35	0.000341508	0.998139	0.00200431	0.989075
rad46	0.000254425	0.998393	0.00149322	0.990569
rad59	0.000220084	0.998614	0.00129168	0.991860
rad67	0.000201013	0.998815	0.00117975	0.993040
PhCCH3+H	0.000187990	0.999003	0.00110331	0.994143
rad71	0.000146780	0.999149	0.000861455	0.995005
rad19syn	0.000129261	0.999279	0.000758633	0.995764
PAH10+CH3	0.000111172	0.999390	0.000652468	0.996416
rad60syn	0.000106707	0.999496	0.000626263	0.997042
rad60anti	7.88382e-05	0.999575	0.000462703	0.997505
rad52	7.54521e-05	0.999651	0.000442829	0.997948
rad58	6.80261e-05	0.999719	0.000399246	0.998347
PAH1+H	6.45813e-05	0.999783	0.000379028	0.998726
rad73	5.74878e-05	0.999841	0.000337397	0.999063

PhcycC3H3_A+H	3.61213e-05	0.999877	0.000211996	0.999275
rad70	2.62309e-05	0.999903	0.000153949	0.999429
PAH8+H	2.07420e-05	0.999924	0.000121735	0.999551
rad72	1.85748e-05	0.999943	0.000109016	0.999660
rad37	1.33636e-05	0.999956	7.84314e-05	0.999739
rad34	1.07116e-05	0.999967	6.28665e-05	0.999801
rad54	9.53969e-06	0.999976	5.59886e-05	0.999857
rad65	9.05125e-06	0.999985	5.31219e-05	0.999911
rad68syn	2.77520e-06	0.999988	1.62877e-05	0.999927
rad64	1.81236e-06	0.999990	1.06367e-05	0.999938
rad68anti	1.76807e-06	0.999992	1.03768e-05	0.999948
rad40syn	1.68193e-06	0.999993	9.87130e-06	0.999958
rad56	1.59874e-06	0.999995	9.38301e-06	0.999967
rad40anti	1.25564e-06	0.999996	7.36935e-06	0.999975
rad55	1.07703e-06	0.999997	6.32112e-06	0.999981
rad53	1.00840e-06	0.999998	5.91834e-06	0.999987
rad62	8.81786e-07	0.999999	5.17522e-06	0.999992
rad61	7.98455e-07	1.000000	4.68615e-06	0.999997
rad43	3.67979e-07	1.000000	2.15967e-06	0.999999
rad42	1.74775e-07	1.000000	1.02576e-06	1.000000
rad41	7.77074e-08	1.000000	4.56066e-07	1.000000
rad23	2.40787e-17	1.000000	1.41318e-16	1.000000
rad20	2.02983e-17	1.000000	1.19131e-16	1.000000
rad9	1.26646e-17	1.000000	7.43290e-17	1.000000
rad45	1.20281e-17	1.000000	7.05934e-17	1.000000
rad6	9.84001e-18	1.000000	5.77512e-17	1.000000
rad21	8.13804e-18	1.000000	4.77623e-17	1.000000
rad11	4.75768e-18	1.000000	2.79229e-17	1.000000
rad22	4.20240e-18	1.000000	2.46640e-17	1.000000
rad36	2.31372e-18	1.000000	1.35792e-17	1.000000
rad8	1.91572e-18	1.000000	1.12434e-17	1.000000
rad18	1.80283e-18	1.000000	1.05808e-17	1.000000
rad15	1.23474e-18	1.000000	7.24673e-18	1.000000
rad47	7.59707e-19	1.000000	4.45873e-18	1.000000
rad12	6.32118e-19	1.000000	3.70991e-18	1.000000
rad24	5.63439e-19	1.000000	3.30683e-18	1.000000
rad7	4.44225e-19	1.000000	2.60716e-18	1.000000
rad28	4.30207e-19	1.000000	2.52489e-18	1.000000
rad26	1.37559e-19	1.000000	8.07337e-19	1.000000
rad13	7.33170e-20	1.000000	4.30299e-19	1.000000
rad10	5.95132e-20	1.000000	3.49284e-19	1.000000
rad25	4.50617e-20	1.000000	2.64468e-19	1.000000
rad5	1.84004e-20	1.000000	1.07992e-19	1.000000
rad33	7.87849e-21	1.000000	4.62390e-20	1.000000
rad2	4.57536e-21	1.000000	2.68529e-20	1.000000
rad1	2.64196e-21	1.000000	1.55057e-20	1.000000
rad14	9.45605e-22	1.000000	5.54977e-21	1.000000
rad27	4.76374e-22	1.000000	2.79584e-21	1.000000
rad3	1.99201e-22	1.000000	1.16911e-21	1.000000
rad4	1.11132e-22	1.000000	6.52234e-22	1.000000

0.100000000E-05 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28297e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.816017	0.816017	0.00000	0.00000
PhCH2CCH+H	0.109584	0.925601	0.595618	0.595618
PhCHCCH2+H	0.0267098	0.952311	0.145175	0.740793
Ph+Allene	0.0193046	0.971615	0.104926	0.845719
Indene+H	0.0160484	0.987664	0.0872277	0.932947
PAH3+H	0.00329013	0.990954	0.0178828	0.950829
PAH7+H	0.00121791	0.992172	0.00661968	0.957449
PAH9+H	0.000864009	0.993036	0.00469613	0.962145
PhCCH+CH3	0.000720156	0.993756	0.00391424	0.966060
rad19anti	0.000708493	0.994464	0.00385085	0.969910
Ph+MeAc	0.000663934	0.995128	0.00360866	0.973519
rad50	0.000616859	0.995745	0.00335280	0.976872
rad38	0.000560144	0.996305	0.00304454	0.979916
rad39	0.000491035	0.996796	0.00266891	0.982585
rad51	0.000408498	0.997205	0.00222030	0.984806
rad30	0.000396478	0.997601	0.00215497	0.986961
rad35	0.000343096	0.997945	0.00186482	0.988825
rad46	0.000239253	0.998184	0.00130041	0.990126
rad59	0.000231903	0.998416	0.00126046	0.991386
rad67	0.000214260	0.998630	0.00116456	0.992551
PhCCCH3+H	0.000213580	0.998844	0.00116087	0.993712

rad71	0.000187844	0.999031	0.00102098	0.994733
rad19syn	0.000163941	0.999195	0.000891067	0.995624
PAH10+CH3	0.000121536	0.999317	0.000660582	0.996284
rad60syn	0.000108396	0.999425	0.000589161	0.996873
rad60anti	8.05427e-05	0.999506	0.000437772	0.997311
rad52	7.82960e-05	0.999584	0.000425560	0.997737
rad58	7.77572e-05	0.999662	0.000422632	0.998159
PAH1+H	7.70001e-05	0.999739	0.000418517	0.998578
rad73	7.03552e-05	0.999809	0.000382400	0.998960
PhcycC3H3_A+H	3.98813e-05	0.999849	0.000216766	0.999177
rad70	3.09908e-05	0.999880	0.000168444	0.999346
PAH8+H	2.94355e-05	0.999910	0.000159990	0.999506
rad72	2.58284e-05	0.999935	0.000140384	0.999646
rad37	1.30848e-05	0.999948	7.11194e-05	0.999717
rad34	1.30497e-05	0.999961	7.09289e-05	0.999788
rad54	1.00584e-05	0.999972	5.46703e-05	0.999843
rad65	9.63686e-06	0.999981	5.23790e-05	0.999895
rad68syn	3.67778e-06	0.999985	1.99898e-05	0.999915
rad68anti	2.34154e-06	0.999987	1.27269e-05	0.999928
rad40syn	2.31359e-06	0.999990	1.25750e-05	0.999940
rad64	2.19077e-06	0.999992	1.19074e-05	0.999952
rad56	1.94741e-06	0.999994	1.05847e-05	0.999963
rad40anti	1.74691e-06	0.999995	9.49492e-06	0.999972
rad53	1.18744e-06	0.999997	6.45406e-06	0.999979
rad55	1.16170e-06	0.999998	6.31418e-06	0.999985
rad62	1.07271e-06	0.999999	5.83046e-06	0.999991
rad61	9.59661e-07	1.000000	5.21602e-06	0.999996
rad43	4.20278e-07	1.000000	2.28433e-06	0.999998
rad42	2.24298e-07	1.000000	1.21912e-06	1.000000
rad41	9.47630e-08	1.000000	5.15063e-07	1.000000
rad20	1.54922e-17	1.000000	8.42046e-17	1.000000
rad23	1.27763e-17	1.000000	6.94429e-17	1.000000
rad9	8.14417e-18	1.000000	4.42658e-17	1.000000
rad45	7.23756e-18	1.000000	3.93381e-17	1.000000
rad21	5.97853e-18	1.000000	3.24950e-17	1.000000
rad6	5.06618e-18	1.000000	2.75361e-17	1.000000
rad11	3.59957e-18	1.000000	1.95647e-17	1.000000
rad22	2.59195e-18	1.000000	1.40879e-17	1.000000
rad8	1.76788e-18	1.000000	9.60889e-18	1.000000
rad36	1.39793e-18	1.000000	7.59812e-18	1.000000
rad18	1.20669e-18	1.000000	6.55872e-18	1.000000
rad15	8.31120e-19	1.000000	4.51737e-18	1.000000
rad47	7.97227e-19	1.000000	4.33315e-18	1.000000
rad12	4.90407e-19	1.000000	2.66550e-18	1.000000
rad24	4.12849e-19	1.000000	2.24395e-18	1.000000
rad28	2.83278e-19	1.000000	1.53970e-18	1.000000
rad7	2.66540e-19	1.000000	1.44872e-18	1.000000
rad26	9.26855e-20	1.000000	5.03771e-19	1.000000
rad13	4.73267e-20	1.000000	2.57234e-19	1.000000
rad10	4.23761e-20	1.000000	2.30326e-19	1.000000
rad25	3.78502e-20	1.000000	2.05726e-19	1.000000
rad5	1.76148e-20	1.000000	9.57414e-20	1.000000
rad33	5.47163e-21	1.000000	2.97398e-20	1.000000
rad2	3.43806e-21	1.000000	1.86868e-20	1.000000
rad1	2.03353e-21	1.000000	1.10528e-20	1.000000
rad14	8.43867e-22	1.000000	4.58665e-21	1.000000
rad27	3.99728e-22	1.000000	2.17263e-21	1.000000
rad3	1.31292e-22	1.000000	7.13610e-22	1.000000
rad4	7.27100e-23	1.000000	3.95199e-22	1.000000

0.100000000E-06 Pa, 20.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999878	0.999878	0.999879	0.999879
rad6	0.000121071	0.999999	0.000121071	1.000000
Benzyl+C2H2	8.11973e-07	1.000000	0.000000	1.000000
rad2	3.93189e-08	1.000000	3.93190e-08	1.000000
rad7	8.73046e-09	1.000000	8.73047e-09	1.000000
rad1	2.48505e-09	1.000000	2.48505e-09	1.000000
rad11	2.13278e-09	1.000000	2.13279e-09	1.000000
rad10	2.01099e-09	1.000000	2.01100e-09	1.000000
rad3	2.60396e-10	1.000000	2.60396e-10	1.000000
rad4	1.31644e-10	1.000000	1.31644e-10	1.000000
rad13	4.85376e-11	1.000000	4.85376e-11	1.000000
rad33	9.16493e-14	1.000000	9.16494e-14	1.000000

rad28	1.23554e-15	1.000000	1.23554e-15	1.00000
rad20	1.15838e-15	1.000000	1.15838e-15	1.00000
rad21	7.22467e-16	1.000000	7.22467e-16	1.00000
rad26	1.21913e-16	1.000000	1.21913e-16	1.00000
rad35	4.19637e-17	1.000000	4.19637e-17	1.00000
rad18	5.44946e-18	1.000000	5.44946e-18	1.00000
PAH9+H	5.25667e-18	1.000000	5.25667e-18	1.00000
rad23	1.63823e-18	1.000000	1.63823e-18	1.00000
rad31	6.55984e-19	1.000000	6.55984e-19	1.00000
rad22	4.40466e-19	1.000000	4.40466e-19	1.00000
rad27	5.40047e-20	1.000000	5.40047e-20	1.00000
rad38	2.79413e-20	1.000000	2.79413e-20	1.00000
rad30	2.60578e-20	1.000000	2.60578e-20	1.00000
rad45	1.01731e-20	1.000000	1.01731e-20	1.00000
PhCHCCH2+H	1.19439e-21	1.000000	1.19439e-21	1.00000
rad36	6.33704e-22	1.000000	6.33704e-22	1.00000
PhCCH+CH3	4.20775e-23	1.000000	4.20775e-23	1.00000
rad24	2.32430e-23	1.000000	2.32430e-23	1.00000
PhCCCH3+H	6.12756e-24	1.000000	6.12757e-24	1.00000
rad15	3.20891e-24	1.000000	3.20892e-24	1.00000
rad25	2.24987e-24	1.000000	2.24987e-24	1.00000
rad14	1.65882e-25	1.000000	1.65882e-25	1.00000
rad8	2.44393e-29	1.000000	2.44393e-29	1.00000
rad46	1.38474e-31	1.000000	1.38474e-31	1.00000
rad9	7.49477e-32	1.000000	7.49478e-32	1.00000
PAH7+H	1.05274e-32	1.000000	1.05274e-32	1.00000
Ph+MeAc	1.10602e-33	1.000000	1.10602e-33	1.00000
rad12	4.04461e-34	1.000000	4.04462e-34	1.00000
rad39	2.23916e-35	1.000000	2.23916e-35	1.00000
Ph+Allene	5.11794e-38	1.000000	5.11795e-38	1.00000
rad60syn	4.60138e-42	1.000000	4.60139e-42	1.00000
rad60anti	4.78085e-44	1.000000	4.78085e-44	1.00000
PhCH2CCH+H	7.99613e-46	1.000000	7.99613e-46	1.00000
rad37	6.96746e-47	1.000000	6.96747e-47	1.00000
rad5	4.58043e-50	1.000000	4.58043e-50	1.00000
PAH3+H	8.15120e-55	1.000000	8.15121e-55	1.00000
rad59	4.36479e-55	1.000000	4.36479e-55	1.00000
rad50	1.76366e-55	1.000000	1.76367e-55	1.00000
rad19syn	6.40504e-64	1.000000	6.40504e-64	1.00000
rad52	7.71766e-68	1.000000	7.71767e-68	1.00000
rad54	7.40362e-69	1.000000	7.40362e-69	1.00000
PAH10+CH3	4.68943e-69	1.000000	4.68943e-69	1.00000
rad43	1.10487e-69	1.000000	1.10487e-69	1.00000
rad62	3.30787e-72	1.000000	3.30787e-72	1.00000
rad51	3.71134e-75	1.000000	3.71135e-75	1.00000
rad70	3.98183e-78	1.000000	3.98184e-78	1.00000
PhcycC3H3_A+H	1.68640e-78	1.000000	1.68640e-78	1.00000
rad55	9.08060e-79	1.000000	9.08061e-79	1.00000
rad65	2.49069e-80	1.000000	2.49069e-80	1.00000
rad58	5.66543e-82	1.000000	5.66543e-82	1.00000
PAH1+H	7.43843e-84	1.000000	7.43843e-84	1.00000
rad34	5.02797e-86	1.000000	5.02797e-86	1.00000
rad42	3.57745e-90	1.000000	3.57745e-90	1.00000
rad41	4.46080e-91	1.000000	4.46081e-91	1.00000
rad47	1.39106e-95	1.000000	1.39106e-95	1.00000

0.100000000E-06 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15918e-108 (1.00)	1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999912	0.999912	0.999913	0.999913
rad6	8.71192e-05	0.999999	8.71193e-05	1.00000
Benzyl+C2H2	1.04113e-06	1.00000	0.00000	1.00000
rad2	2.84436e-08	1.00000	2.84436e-08	1.00000
rad7	6.28398e-09	1.00000	6.28399e-09	1.00000
rad1	1.79875e-09	1.00000	1.79875e-09	1.00000
rad11	1.53519e-09	1.00000	1.53519e-09	1.00000
rad10	1.45717e-09	1.00000	1.45717e-09	1.00000
rad3	1.88961e-10	1.00000	1.88962e-10	1.00000
rad4	9.55440e-11	1.00000	9.55441e-11	1.00000
rad13	3.49425e-11	1.00000	3.49426e-11	1.00000
rad33	6.60015e-14	1.00000	6.60016e-14	1.00000
rad35	3.28380e-15	1.00000	3.28381e-15	1.00000
rad28	5.71913e-16	1.00000	5.71913e-16	1.00000
rad20	5.66180e-16	1.00000	5.66180e-16	1.00000
rad21	3.53178e-16	1.00000	3.53179e-16	1.00000

rad26	4.27518e-17	1.00000	4.27519e-17	1.00000
PAH9+H	8.18355e-18	1.00000	8.18355e-18	1.00000
rad18	2.66439e-18	1.00000	2.66440e-18	1.00000
rad31	4.87549e-19	1.00000	4.87550e-19	1.00000
rad23	3.87975e-19	1.00000	3.87975e-19	1.00000
rad22	2.00287e-19	1.00000	2.00287e-19	1.00000
rad38	1.96506e-20	1.00000	1.96506e-20	1.00000
rad27	1.81829e-20	1.00000	1.81829e-20	1.00000
rad30	1.42517e-20	1.00000	1.42517e-20	1.00000
rad45	2.42727e-21	1.00000	2.42728e-21	1.00000
PhCHCCH2+H	5.18987e-22	1.00000	5.18987e-22	1.00000
rad36	1.51154e-22	1.00000	1.51154e-22	1.00000
PhCCH+CH3	1.77700e-23	1.00000	1.77700e-23	1.00000
rad24	1.15401e-23	1.00000	1.15401e-23	1.00000
PhCCCH3+H	2.57115e-24	1.00000	2.57115e-24	1.00000
rad15	1.45082e-24	1.00000	1.45083e-24	1.00000
rad25	5.34264e-25	1.00000	5.34265e-25	1.00000
rad14	3.75414e-26	1.00000	3.75414e-26	1.00000
rad8	1.00646e-29	1.00000	1.00646e-29	1.00000
rad46	5.77724e-32	1.00000	5.77725e-32	1.00000
rad9	3.08517e-32	1.00000	3.08517e-32	1.00000
PAH7+H	4.19860e-33	1.00000	4.19861e-33	1.00000
Ph+MeAc	4.57353e-34	1.00000	4.57353e-34	1.00000
rad12	1.65483e-34	1.00000	1.65483e-34	1.00000
rad39	9.00858e-36	1.00000	9.00859e-36	1.00000
Ph+Allene	2.13527e-38	1.00000	2.13528e-38	1.00000
rad60syn	1.91658e-42	1.00000	1.91658e-42	1.00000
rad60anti	2.00202e-44	1.00000	2.00202e-44	1.00000
PhCH2CCH+H	3.41396e-46	1.00000	3.41396e-46	1.00000
rad37	2.98208e-47	1.00000	2.98208e-47	1.00000
rad5	1.97369e-50	1.00000	1.97369e-50	1.00000
PAH3+H	3.53841e-55	1.00000	3.53842e-55	1.00000
rad59	1.89446e-55	1.00000	1.89446e-55	1.00000
rad50	7.63232e-56	1.00000	7.63233e-56	1.00000
rad19syn	2.89357e-64	1.00000	2.89357e-64	1.00000
rad52	3.48153e-68	1.00000	3.48154e-68	1.00000
rad54	3.39743e-69	1.00000	3.39743e-69	1.00000
PAH10+CH3	2.15130e-69	1.00000	2.15130e-69	1.00000
rad43	5.08412e-70	1.00000	5.08413e-70	1.00000
rad62	1.53422e-72	1.00000	1.53423e-72	1.00000
rad51	1.72066e-75	1.00000	1.72067e-75	1.00000
rad70	1.88557e-78	1.00000	1.88557e-78	1.00000
PhcycC3H3_A+H	8.00263e-79	1.00000	8.00264e-79	1.00000
rad55	4.30822e-79	1.00000	4.30822e-79	1.00000
rad65	1.17304e-80	1.00000	1.17304e-80	1.00000
rad58	2.69342e-82	1.00000	2.69342e-82	1.00000
PAH1+H	3.58717e-84	1.00000	3.58718e-84	1.00000
rad34	2.44522e-86	1.00000	2.44522e-86	1.00000
rad42	1.76315e-90	1.00000	1.76315e-90	1.00000
rad41	2.21146e-91	1.00000	2.21146e-91	1.00000
rad47	3.33196e-96	1.00000	3.33197e-96	1.00000

0.100000000E-06 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999933	0.999933	0.999934	0.999934
rad6	6.57221e-05	0.999999	6.57222e-05	1.000000
Benzyl+C2H2	1.52917e-06	1.000000	0.000000	1.000000
rad2	2.16718e-08	1.000000	2.16718e-08	1.000000
rad7	4.74359e-09	1.000000	4.74359e-09	1.000000
rad1	1.37219e-09	1.000000	1.37219e-09	1.000000
rad11	1.15902e-09	1.000000	1.15902e-09	1.000000
rad10	1.10974e-09	1.000000	1.10975e-09	1.000000
rad3	1.43285e-10	1.000000	1.43286e-10	1.000000
rad4	7.24715e-11	1.000000	7.24716e-11	1.000000
rad13	2.63864e-11	1.000000	2.63864e-11	1.000000
rad35	5.91643e-14	1.000000	5.91643e-14	1.000000
rad33	4.98676e-14	1.000000	4.98677e-14	1.000000
rad28	4.83901e-16	1.000000	4.83902e-16	1.000000
PAH9+H	4.55784e-16	1.000000	4.55785e-16	1.000000
rad20	3.70282e-16	1.000000	3.70283e-16	1.000000
rad21	2.31056e-16	1.000000	2.31057e-16	1.000000
rad26	3.12012e-17	1.000000	3.12013e-17	1.000000
rad18	1.74387e-18	1.000000	1.74387e-18	1.000000
rad31	3.81060e-19	1.000000	3.81061e-19	1.000000

rad23	1.77344e-19	1.00000	1.77345e-19	1.000000
rad22	1.27774e-19	1.00000	1.27774e-19	1.000000
rad38	3.23488e-20	1.00000	3.23489e-20	1.000000
rad30	1.39570e-20	1.00000	1.39570e-20	1.000000
rad27	1.28829e-20	1.00000	1.28829e-20	1.000000
rad45	1.11119e-21	1.00000	1.11119e-21	1.000000
PhCHCCH2+H	4.82377e-22	1.00000	4.82377e-22	1.000000
rad36	6.91553e-23	1.00000	6.91554e-23	1.000000
PhCCH+CH3	1.65545e-23	1.00000	1.65545e-23	1.000000
rad24	7.79848e-24	1.00000	7.79849e-24	1.000000
PhCCCH3+H	2.40134e-24	1.00000	2.40135e-24	1.000000
rad15	1.35074e-24	1.00000	1.35075e-24	1.000000
rad25	3.40355e-25	1.00000	3.40356e-25	1.000000
rad14	2.37284e-26	1.00000	2.37284e-26	1.000000
rad8	9.60226e-30	1.00000	9.60228e-30	1.000000
rad46	5.41249e-32	1.00000	5.41250e-32	1.000000
rad9	2.98412e-32	1.00000	2.98412e-32	1.000000
PAH7+H	4.03585e-33	1.00000	4.03586e-33	1.000000
Ph+MeAc	4.52426e-34	1.00000	4.52427e-34	1.000000
rad12	1.61861e-34	1.00000	1.61861e-34	1.000000
rad39	8.79886e-36	1.00000	8.79887e-36	1.000000
Ph+Allene	2.16367e-38	1.00000	2.16368e-38	1.000000
rad60syn	1.93371e-42	1.00000	1.93371e-42	1.000000
rad60anti	2.04769e-44	1.00000	2.04769e-44	1.000000
PhCH2CCH+H	3.65157e-46	1.00000	3.65157e-46	1.000000
rad37	3.23948e-47	1.00000	3.23948e-47	1.000000
rad5	2.16223e-50	1.00000	2.16223e-50	1.000000
PAH3+H	3.92382e-55	1.00000	3.92383e-55	1.000000
rad59	2.10012e-55	1.00000	2.10012e-55	1.000000
rad50	8.39719e-56	1.00000	8.39720e-56	1.000000
rad19syn	3.49198e-64	1.00000	3.49198e-64	1.000000
rad52	4.18523e-68	1.00000	4.18523e-68	1.000000
rad54	4.23707e-69	1.00000	4.23708e-69	1.000000
PAH10+CH3	2.72120e-69	1.00000	2.72121e-69	1.000000
rad43	6.43876e-70	1.00000	6.43877e-70	1.000000
rad62	1.96667e-72	1.00000	1.96667e-72	1.000000
rad51	2.19135e-75	1.00000	2.19135e-75	1.000000
rad70	2.51178e-78	1.00000	2.51178e-78	1.000000
PhcycC3H3_A+H	1.07075e-78	1.00000	1.07075e-78	1.000000
rad55	5.76183e-79	1.00000	5.76184e-79	1.000000
rad65	1.54386e-80	1.00000	1.54387e-80	1.000000
rad58	3.61762e-82	1.00000	3.61763e-82	1.000000
PAH1+H	4.99754e-84	1.00000	4.99755e-84	1.000000
rad34	3.44407e-86	1.00000	3.44408e-86	1.000000
rad42	2.57437e-90	1.00000	2.57437e-90	1.000000
rad41	3.33529e-91	1.00000	3.33530e-91	1.000000
rad47	3.10867e-96	1.00000	3.10868e-96	1.000000

0.100000000E-06 Pa, 50.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.31816e-70 (1.00)	2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999947	0.999947	0.999949	0.999949
rad6	5.06987e-05	0.999998	5.06988e-05	1.000000
Benzyl+C2H2	2.26183e-06	1.000000	0.000000	1.000000
rad2	1.67092e-08	1.000000	1.67092e-08	1.000000
rad7	3.66255e-09	1.000000	3.66256e-09	1.000000
rad1	1.05983e-09	1.000000	1.05984e-09	1.000000
rad11	8.95050e-10	1.000000	8.95052e-10	1.000000
rad10	8.61545e-10	1.000000	8.61547e-10	1.000000
rad3	1.12630e-10	1.000000	1.12630e-10	1.000000
rad4	5.69916e-11	1.000000	5.69917e-11	1.000000
rad13	2.03833e-11	1.000000	2.03834e-11	1.000000
rad35	3.19975e-13	1.000000	3.19975e-13	1.000000
rad33	3.85506e-14	1.000000	3.85506e-14	1.000000
PAH9+H	8.82698e-15	1.000000	8.82700e-15	1.000000
rad28	6.21566e-16	1.000000	6.21567e-16	1.000000
rad20	2.70761e-16	1.000000	2.70762e-16	1.000000
rad21	1.69034e-16	1.000000	1.69035e-16	1.000000
rad26	3.63887e-17	1.000000	3.63888e-17	1.000000
rad38	2.35297e-18	1.000000	2.35297e-18	1.000000
rad18	1.27640e-18	1.000000	1.27641e-18	1.000000
rad31	3.05716e-19	1.000000	3.05716e-19	1.000000
rad30	1.92142e-19	1.000000	1.92142e-19	1.000000
rad23	1.03654e-19	1.000000	1.03654e-19	1.000000
rad22	9.22150e-20	1.000000	9.22152e-20	1.000000

rad27	1.49082e-20	1.000000	1.49083e-20	1.000000
PhCHCCH2+H	7.02688e-22	1.000000	7.02689e-22	1.000000
rad45	6.59607e-22	1.000000	6.59608e-22	1.000000
rad36	4.10187e-23	1.000000	4.10188e-23	1.000000
PhCCH+CH3	2.44486e-23	1.000000	2.44486e-23	1.000000
rad24	5.97018e-24	1.000000	5.97019e-24	1.000000
PhCCCH3+H	3.57012e-24	1.000000	3.57013e-24	1.000000
rad15	2.14969e-24	1.000000	2.14970e-24	1.000000
rad25	3.72955e-25	1.000000	3.72956e-25	1.000000
rad14	2.61396e-26	1.000000	2.61396e-26	1.000000
rad8	1.48714e-29	1.000000	1.48714e-29	1.000000
rad46	8.09549e-32	1.000000	8.09551e-32	1.000000
rad9	4.71493e-32	1.000000	4.71494e-32	1.000000
PAH7+H	6.40094e-33	1.000000	6.40095e-33	1.000000
Ph+MeAc	7.41898e-34	1.000000	7.41900e-34	1.000000
rad12	2.61754e-34	1.000000	2.61755e-34	1.000000
rad39	1.42610e-35	1.000000	1.42611e-35	1.000000
Ph+Allene	3.66134e-38	1.000000	3.66134e-38	1.000000
rad60syn	3.25179e-42	1.000000	3.25180e-42	1.000000
rad60anti	3.51190e-44	1.000000	3.51191e-44	1.000000
PhCH2CCH+H	6.67592e-46	1.000000	6.67593e-46	1.000000
rad37	6.13427e-47	1.000000	6.13428e-47	1.000000
rad5	4.14284e-50	1.000000	4.14285e-50	1.000000
PAH3+H	7.55121e-55	1.000000	7.55123e-55	1.000000
rad59	4.03964e-55	1.000000	4.03965e-55	1.000000
rad50	1.60017e-55	1.000000	1.60017e-55	1.000000
rad19syn	7.57692e-64	1.000000	7.57694e-64	1.000000
rad52	9.06326e-68	1.000000	9.06328e-68	1.000000
rad54	9.63262e-69	1.000000	9.63264e-69	1.000000
PAH10+CH3	6.70784e-69	1.000000	6.70786e-69	1.000000
rad43	1.58841e-69	1.000000	1.58841e-69	1.000000
rad62	4.81616e-72	1.000000	4.81617e-72	1.000000
rad51	5.16428e-75	1.000000	5.16429e-75	1.000000
rad70	6.27058e-78	1.000000	6.27059e-78	1.000000
PhcycC3H3_A+H	2.68991e-78	1.000000	2.68991e-78	1.000000
rad55	1.44654e-78	1.000000	1.44655e-78	1.000000
rad65	3.81855e-80	1.000000	3.81856e-80	1.000000
rad58	9.13788e-82	1.000000	9.13790e-82	1.000000
PAH1+H	1.33209e-83	1.000000	1.33209e-83	1.000000
rad34	9.30777e-86	1.000000	9.30779e-86	1.000000
rad42	8.02678e-90	1.000000	8.02680e-90	1.000000
rad41	1.31630e-90	1.000000	1.31631e-90	1.000000
rad47	6.29845e-96	1.000000	6.29846e-96	1.000000

0.100000000E-06 Pa, 60.0000000 K

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

Total | 8.44107e-61 (1.00) | 8.44104e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999957	0.999957	0.999960	0.999960
rad6	3.96148e-05	0.999997	3.96150e-05	1.000000
Benzyl+C2H2	3.25405e-06	1.000000	0.000000	1.000000
rad2	1.33716e-08	1.000000	1.33716e-08	1.000000
rad7	2.86499e-09	1.000000	2.86500e-09	1.000000
rad1	8.49969e-10	1.000000	8.49972e-10	1.000000
rad11	7.00300e-10	1.000000	7.00302e-10	1.000000
rad10	6.81521e-10	1.000000	6.81524e-10	1.000000
rad3	8.80061e-11	1.000000	8.80064e-11	1.000000
rad4	4.45563e-11	1.000000	4.45565e-11	1.000000
rad13	1.59545e-11	1.000000	1.59545e-11	1.000000
rad35	9.63218e-13	1.000000	9.63221e-13	1.000000
PAH9+H	6.37684e-14	1.000000	6.37686e-14	1.000000
rad33	3.02005e-14	1.000000	3.02006e-14	1.000000
rad28	1.72725e-15	1.000000	1.72726e-15	1.000000
rad20	2.10416e-16	1.000000	2.10417e-16	1.000000
rad21	1.31438e-16	1.000000	1.31438e-16	1.000000
rad26	9.10431e-17	1.000000	9.10434e-17	1.000000
rad38	7.71328e-17	1.000000	7.71331e-17	1.000000
rad30	2.80870e-17	1.000000	2.80871e-17	1.000000
rad18	9.92860e-19	1.000000	9.92863e-19	1.000000
rad31	2.49603e-19	1.000000	2.49604e-19	1.000000
rad22	7.10413e-20	1.000000	7.10415e-20	1.000000
rad23	6.89814e-20	1.000000	6.89816e-20	1.000000
rad27	4.05977e-20	1.000000	4.05979e-20	1.000000
PhCHCCH2+H	1.70061e-21	1.000000	1.70061e-21	1.000000
rad15	4.80576e-22	1.000000	4.80578e-22	1.000000
rad45	4.43082e-22	1.000000	4.43083e-22	1.000000

PhCCH+CH3	5.83546e-23	1.000000	5.83548e-23	1.000000
rad36	2.75310e-23	1.000000	2.75310e-23	1.000000
PhCCCH3+H	8.49691e-24	1.000000	8.49693e-24	1.000000
rad24	4.90222e-24	1.000000	4.90224e-24	1.000000
rad25	7.92142e-25	1.000000	7.92145e-25	1.000000
rad14	5.30868e-26	1.000000	5.30869e-26	1.000000
rad8	3.73760e-29	1.000000	3.73761e-29	1.000000
rad46	1.94166e-31	1.000000	1.94166e-31	1.000000
rad9	1.21066e-31	1.000000	1.21066e-31	1.000000
PAH7+H	1.66610e-32	1.000000	1.66610e-32	1.000000
Ph+MeAc	2.01048e-33	1.000000	2.01049e-33	1.000000
rad12	6.97789e-34	1.000000	6.97791e-34	1.000000
rad39	3.80595e-35	1.000000	3.80596e-35	1.000000
Ph+Allene	1.02232e-37	1.000000	1.02233e-37	1.000000
rad60syn	9.01016e-42	1.000000	9.01019e-42	1.000000
rad60anti	9.96754e-44	1.000000	9.96757e-44	1.000000
PhCH2CCH+H	2.04923e-45	1.000000	2.04924e-45	1.000000
rad37	2.05484e-46	1.000000	2.05484e-46	1.000000
rad5	1.41436e-49	1.000000	1.41436e-49	1.000000
PAH3+H	2.46981e-54	1.000000	2.46982e-54	1.000000
rad59	1.32045e-54	1.000000	1.32045e-54	1.000000
rad50	5.21351e-55	1.000000	5.21353e-55	1.000000
rad19syn	2.88578e-63	1.000000	2.88579e-63	1.000000
rad52	3.53383e-67	1.000000	3.53385e-67	1.000000
PAH10+CH3	4.22252e-68	1.000000	4.22253e-68	1.000000
rad54	3.90075e-68	1.000000	3.90076e-68	1.000000
rad43	1.00076e-68	1.000000	1.00076e-68	1.000000
rad62	2.74432e-71	1.000000	2.74433e-71	1.000000
rad51	2.31535e-74	1.000000	2.31535e-74	1.000000
rad70	2.88930e-77	1.000000	2.88931e-77	1.000000
PhcycC3H3_A+H	1.25072e-77	1.000000	1.25072e-77	1.000000
rad55	6.71935e-78	1.000000	6.71937e-78	1.000000
rad65	1.87001e-79	1.000000	1.87002e-79	1.000000
rad58	4.28305e-81	1.000000	4.28306e-81	1.000000
PAH1+H	6.80837e-83	1.000000	6.80839e-83	1.000000
rad34	4.83316e-85	1.000000	4.83318e-85	1.000000
rad42	1.10109e-88	1.000000	1.10110e-88	1.000000
rad41	3.86886e-89	1.000000	3.86888e-89	1.000000
rad47	2.95133e-95	1.000000	2.95134e-95	1.000000

0.100000000E-06 Pa, 70.0000000 K

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

Total | 5.61998e-54 (1.00) | 5.61996e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999964	0.999964	0.999969	0.999969
rad6	3.12245e-05	0.999995	3.12247e-05	1.000000
Benzyl+C2H2	4.55784e-06	1.000000	0.000000	1.000000
rad2	1.04376e-08	1.000000	1.04376e-08	1.000000
rad7	2.26101e-09	1.000000	2.26103e-09	1.000000
rad1	6.65123e-10	1.000000	6.65126e-10	1.000000
rad11	5.52810e-10	1.000000	5.52812e-10	1.000000
rad10	5.41185e-10	1.000000	5.41188e-10	1.000000
rad3	6.97007e-11	1.000000	6.97010e-11	1.000000
rad4	3.53110e-11	1.000000	3.53112e-11	1.000000
rad13	1.25999e-11	1.000000	1.26000e-11	1.000000
rad35	2.11179e-12	1.000000	2.11180e-12	1.000000
PAH9+H	2.62385e-13	1.000000	2.62386e-13	1.000000
rad33	2.38742e-14	1.000000	2.38743e-14	1.000000
rad28	1.65235e-14	1.000000	1.65236e-14	1.000000
rad30	1.03428e-15	1.000000	1.03428e-15	1.000000
rad26	9.33663e-16	1.000000	9.33667e-16	1.000000
rad38	9.17922e-16	1.000000	9.17926e-16	1.000000
rad20	1.69989e-16	1.000000	1.69990e-16	1.000000
rad21	1.06257e-16	1.000000	1.06257e-16	1.000000
rad18	8.02697e-19	1.000000	8.02701e-19	1.000000
rad27	2.54493e-19	1.000000	2.54494e-19	1.000000
rad31	2.06164e-19	1.000000	2.06165e-19	1.000000
rad15	9.42712e-20	1.000000	9.42716e-20	1.000000
rad22	5.70007e-20	1.000000	5.70010e-20	1.000000
rad23	4.97894e-20	1.000000	4.97897e-20	1.000000
PhCHCCH2+H	4.06907e-20	1.000000	4.06909e-20	1.000000
PhCCH+CH3	1.48086e-21	1.000000	1.48086e-21	1.000000
rad45	3.19590e-22	1.000000	3.19592e-22	1.000000
PhCCCH3+H	2.14666e-22	1.000000	2.14667e-22	1.000000
rad36	1.98423e-23	1.000000	1.98423e-23	1.000000
rad25	1.27158e-23	1.000000	1.27159e-23	1.000000

rad24	4.21246e-24	1.000000	4.21248e-24	1.00000
rad14	9.58128e-25	1.000000	9.58132e-25	1.00000
rad46	1.49057e-27	1.000000	1.49058e-27	1.00000
rad8	2.16468e-28	1.000000	2.16469e-28	1.00000
rad9	7.18738e-31	1.000000	7.18742e-31	1.00000
PAH7+H	1.05703e-31	1.000000	1.05704e-31	1.00000
Ph+MeAc	1.27683e-32	1.000000	1.27683e-32	1.00000
rad12	4.39614e-33	1.000000	4.39616e-33	1.00000
rad39	2.46127e-34	1.000000	2.46128e-34	1.00000
Ph+Allene	6.67431e-37	1.000000	6.67434e-37	1.00000
rad60syn	5.83053e-41	1.000000	5.83055e-41	1.00000
rad60anti	6.62999e-43	1.000000	6.63002e-43	1.00000
PhCH2CCH+H	1.49433e-44	1.000000	1.49433e-44	1.00000
rad37	1.82042e-45	1.000000	1.82043e-45	1.00000
rad5	1.29519e-48	1.000000	1.29520e-48	1.00000
PAH3+H	1.94829e-53	1.000000	1.94829e-53	1.00000
rad59	1.04075e-53	1.000000	1.04075e-53	1.00000
rad50	4.22205e-54	1.000000	4.22207e-54	1.00000
rad19syn	2.84492e-62	1.000000	2.84494e-62	1.00000
rad52	4.06212e-66	1.000000	4.06214e-66	1.00000
PAH10+CH3	1.43886e-66	1.000000	1.43887e-66	1.00000
rad54	4.31323e-67	1.000000	4.31325e-67	1.00000
rad43	3.41120e-67	1.000000	3.41122e-67	1.00000
rad62	8.67064e-70	1.000000	8.67068e-70	1.00000
rad51	3.93840e-73	1.000000	3.93842e-73	1.00000
rad70	4.40691e-76	1.000000	4.40693e-76	1.00000
PhcycC3H3_A+H	1.96118e-76	1.000000	1.96118e-76	1.00000
rad55	1.04996e-76	1.000000	1.04996e-76	1.00000
rad65	4.19991e-78	1.000000	4.19993e-78	1.00000
rad58	6.88600e-80	1.000000	6.88603e-80	1.00000
PAH1+H	1.51052e-81	1.000000	1.51052e-81	1.00000
rad34	1.11516e-83	1.000000	1.11517e-83	1.00000
rad42	1.59557e-86	1.000000	1.59558e-86	1.00000
rad41	7.44211e-87	1.000000	7.44215e-87	1.00000
rad47	9.42643e-94	1.000000	9.42647e-94	1.00000

0.100000000E-06 Pa, 80.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.28864e-49 (1.00)	7.28860e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999969	0.999969	0.999975	0.999975
rad6	2.47695e-05	0.999994	2.47696e-05	1.000000
Benzyl+C2H2	6.25406e-06	1.00000	0.00000	1.000000
rad2	8.60134e-09	1.00000	8.60139e-09	1.000000
rad7	1.79604e-09	1.00000	1.79606e-09	1.000000
rad1	5.49640e-10	1.00000	5.49644e-10	1.000000
rad11	4.39250e-10	1.00000	4.39253e-10	1.000000
rad10	4.37105e-10	1.00000	4.37108e-10	1.000000
rad3	5.65130e-11	1.00000	5.65134e-11	1.000000
rad4	2.86506e-11	1.00000	2.86508e-11	1.000000
rad13	1.00166e-11	1.00000	1.00167e-11	1.000000
rad35	3.84755e-12	1.00000	3.84757e-12	1.000000
PAH9+H	7.64124e-13	1.00000	7.64129e-13	1.000000
rad28	1.45529e-13	1.00000	1.45530e-13	1.000000
rad33	1.90000e-14	1.00000	1.90001e-14	1.000000
rad30	1.51678e-14	1.00000	1.51679e-14	1.000000
rad26	9.47165e-15	1.00000	9.47171e-15	1.000000
rad38	5.80891e-15	1.00000	5.80894e-15	1.000000
rad20	1.41053e-16	1.00000	1.41054e-16	1.000000
rad21	8.82357e-17	1.00000	8.82362e-17	1.000000
rad15	4.85077e-18	1.00000	4.85080e-18	1.000000
PhCHCCH2+H	3.15085e-18	1.00000	3.15087e-18	1.000000
rad27	1.35813e-18	1.00000	1.35814e-18	1.000000
rad18	6.66336e-19	1.00000	6.66340e-19	1.000000
PhCCH+CH3	2.15008e-19	1.00000	2.15009e-19	1.000000
rad31	1.72300e-19	1.00000	1.72301e-19	1.000000
rad22	4.70085e-20	1.00000	4.70088e-20	1.000000
PhCCCH3+H	3.85865e-20	1.00000	3.85868e-20	1.000000
rad23	3.80104e-20	1.00000	3.80106e-20	1.000000
rad25	2.95579e-22	1.00000	2.95581e-22	1.000000
rad45	2.46402e-22	1.00000	2.46404e-22	1.000000
rad14	3.37357e-23	1.00000	3.37359e-23	1.000000
rad36	1.52878e-23	1.00000	1.52879e-23	1.000000
rad24	3.73707e-24	1.00000	3.73709e-24	1.000000
rad46	4.58870e-25	1.00000	4.58873e-25	1.000000
rad8	3.75347e-25	1.00000	3.75350e-25	1.000000

rad9	2.22223e-29	1.00000	2.22225e-29	1.000000
PAH7+H	3.65305e-30	1.00000	3.65307e-30	1.000000
Ph+MeAc	4.10394e-31	1.00000	4.10397e-31	1.000000
rad12	1.42820e-31	1.00000	1.42821e-31	1.000000
rad39	8.62451e-33	1.00000	8.62457e-33	1.000000
Ph+Allene	2.28276e-35	1.00000	2.28277e-35	1.000000
rad60syn	1.97555e-39	1.00000	1.97557e-39	1.000000
rad60anti	2.31244e-41	1.00000	2.31245e-41	1.000000
PhCH2CCH+H	5.74824e-43	1.00000	5.74828e-43	1.000000
rad37	8.09165e-44	1.00000	8.09170e-44	1.000000
rad5	5.94737e-47	1.00000	5.94740e-47	1.000000
PAH3+H	8.18659e-52	1.00000	8.18664e-52	1.000000
rad59	4.36846e-52	1.00000	4.36849e-52	1.000000
rad50	1.88642e-52	1.00000	1.88643e-52	1.000000
rad19syn	1.64998e-60	1.00000	1.64999e-60	1.000000
rad52	3.27469e-64	1.00000	3.27471e-64	1.000000
PAH10+CH3	2.36265e-64	1.00000	2.36266e-64	1.000000
rad43	5.60321e-65	1.00000	5.60325e-65	1.000000
rad54	3.11434e-65	1.00000	3.11436e-65	1.000000
rad62	1.57893e-67	1.00000	1.57894e-67	1.000000
rad51	5.95521e-71	1.00000	5.95524e-71	1.000000
rad70	6.21615e-74	1.00000	6.21618e-74	1.000000
PhcycC3H3_A+H	2.92332e-74	1.00000	2.92334e-74	1.000000
rad55	1.55268e-74	1.00000	1.55269e-74	1.000000
rad65	9.14447e-76	1.00000	9.14453e-76	1.000000
rad58	1.07662e-77	1.00000	1.07662e-77	1.000000
PAH1+H	4.01712e-79	1.00000	4.01714e-79	1.000000
rad34	3.23206e-81	1.00000	3.23208e-81	1.000000
rad42	9.45905e-84	1.00000	9.45911e-84	1.000000
rad41	4.65276e-84	1.00000	4.65279e-84	1.000000
rad47	2.96656e-91	1.00000	2.96658e-91	1.000000

0.100000000E-06 Pa, 90.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	6.85154e-45 (1.00)	6.85148e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999972	0.999972	0.999980	0.999980
rad6	1.97453e-05	0.999992	1.97455e-05	1.000000
Benzyl+C2H2	8.45224e-06	1.00000	0.00000	1.000000
rad2	6.87691e-09	1.00000	6.87697e-09	1.000000
rad7	1.43383e-09	1.00000	1.43384e-09	1.000000
rad1	4.40800e-10	1.00000	4.40803e-10	1.000000
rad10	3.50927e-10	1.00000	3.50930e-10	1.000000
rad11	3.50773e-10	1.00000	3.50776e-10	1.000000
rad3	4.54960e-11	1.00000	4.54964e-11	1.000000
rad4	2.30837e-11	1.00000	2.30839e-11	1.000000
rad13	8.00333e-12	1.00000	8.00340e-12	1.000000
rad35	6.25580e-12	1.00000	6.25586e-12	1.000000
PAH9+H	1.77825e-12	1.00000	1.77827e-12	1.000000
rad28	8.09606e-13	1.00000	8.09613e-13	1.000000
rad30	1.20962e-13	1.00000	1.20963e-13	1.000000
rad26	5.89894e-14	1.00000	5.89899e-14	1.000000
rad38	2.43293e-14	1.00000	2.43295e-14	1.000000
rad33	1.51989e-14	1.00000	1.51991e-14	1.000000
rad20	1.19328e-16	1.00000	1.19329e-16	1.000000
PhCHCCH2+H	1.07786e-16	1.00000	1.07786e-16	1.000000
rad15	1.02394e-16	1.00000	1.02395e-16	1.000000
rad21	7.47082e-17	1.00000	7.47088e-17	1.000000
PhCCH+CH3	1.21303e-17	1.00000	1.21304e-17	1.000000
rad27	5.05326e-18	1.00000	5.05330e-18	1.000000
PhCCCH3+H	2.56664e-18	1.00000	2.56667e-18	1.000000
rad18	5.63711e-19	1.00000	5.63716e-19	1.000000
rad31	1.45060e-19	1.00000	1.45061e-19	1.000000
rad22	3.95289e-20	1.00000	3.95292e-20	1.000000
rad23	3.02621e-20	1.00000	3.02624e-20	1.000000
rad25	3.56388e-21	1.00000	3.56391e-21	1.000000
rad14	5.68715e-22	1.00000	5.68720e-22	1.000000
rad45	1.98533e-22	1.00000	1.98534e-22	1.000000
rad8	1.12638e-22	1.00000	1.12639e-22	1.000000
rad46	3.75436e-23	1.00000	3.75439e-23	1.000000
rad36	1.23109e-23	1.00000	1.23110e-23	1.000000
rad24	3.39455e-24	1.00000	3.39458e-24	1.000000
rad9	1.25680e-24	1.00000	1.25681e-24	1.000000
PAH7+H	2.14723e-25	1.00000	2.14724e-25	1.000000
rad12	7.49255e-27	1.00000	7.49261e-27	1.000000
Ph+MeAc	1.94112e-27	1.00000	1.94114e-27	1.000000

rad39	1.67226e-30	1.00000	1.67228e-30	1.000000
Ph+Allene	4.50860e-33	1.00000	4.50863e-33	1.000000
rad60syn	3.86508e-37	1.00000	3.86512e-37	1.000000
rad60anti	4.65646e-39	1.00000	4.65650e-39	1.000000
PhCH2CCH+H	1.27056e-40	1.00000	1.27057e-40	1.000000
rad37	1.71812e-41	1.00000	1.71813e-41	1.000000
rad5	1.27832e-44	1.00000	1.27833e-44	1.000000
PAH3+H	1.95550e-49	1.00000	1.95551e-49	1.000000
rad59	1.04248e-49	1.00000	1.04249e-49	1.000000
rad50	4.64139e-50	1.00000	4.64143e-50	1.000000
rad19syn	5.27322e-58	1.00000	5.27327e-58	1.000000
rad52	1.41591e-61	1.00000	1.41592e-61	1.000000
PAH10+CH3	1.27177e-61	1.00000	1.27178e-61	1.000000
rad43	3.01751e-62	1.00000	3.01753e-62	1.000000
rad54	1.25060e-62	1.00000	1.25061e-62	1.000000
rad62	9.85553e-65	1.00000	9.85562e-65	1.000000
rad51	4.41441e-68	1.00000	4.41445e-68	1.000000
rad70	4.84132e-71	1.00000	4.84136e-71	1.000000
PhcycC3H3_A+H	2.39279e-71	1.00000	2.39281e-71	1.000000
rad55	1.26021e-71	1.00000	1.26022e-71	1.000000
rad65	9.02792e-73	1.00000	9.02799e-73	1.000000
rad58	9.18199e-75	1.00000	9.18206e-75	1.000000
PAH1+H	5.20426e-76	1.00000	5.20430e-76	1.000000
rad34	4.57539e-78	1.00000	4.57543e-78	1.000000
rad42	1.73494e-80	1.00000	1.73496e-80	1.000000
rad41	8.83901e-81	1.00000	8.83908e-81	1.000000
rad47	3.79848e-88	1.00000	3.79851e-88	1.000000

0.100000000E-06 Pa, 100.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02670e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999973	0.999973	0.999984	0.999984
rad6	1.58000e-05	0.999989	1.58002e-05	1.000000
Benzyl+C2H2	1.12961e-05	1.00000	0.00000	1.000000
rad2	5.43751e-09	1.00000	5.43757e-09	1.000000
rad7	1.14911e-09	1.00000	1.14912e-09	1.000000
rad1	3.49710e-10	1.00000	3.49714e-10	1.000000
rad10	2.83039e-10	1.00000	2.83043e-10	1.000000
rad11	2.81209e-10	1.00000	2.81212e-10	1.000000
rad3	3.78262e-11	1.00000	3.78266e-11	1.000000
rad4	1.92092e-11	1.00000	1.92094e-11	1.000000
rad35	9.46385e-12	1.00000	9.46396e-12	1.000000
rad13	6.41987e-12	1.00000	6.41995e-12	1.000000
PAH9+H	3.55831e-12	1.00000	3.55835e-12	1.000000
rad28	3.09469e-12	1.00000	3.09473e-12	1.000000
rad30	6.32703e-13	1.00000	6.32710e-13	1.000000
rad26	2.46353e-13	1.00000	2.46355e-13	1.000000
rad38	7.69626e-14	1.00000	7.69635e-14	1.000000
rad33	1.22073e-14	1.00000	1.22075e-14	1.000000
PhCHCCH2+H	1.87699e-15	1.00000	1.87701e-15	1.000000
rad15	1.16430e-15	1.00000	1.16431e-15	1.000000
PhCCH+CH3	3.13705e-16	1.00000	3.13709e-16	1.000000
rad20	1.02421e-16	1.00000	1.02422e-16	1.000000
PhCCCH3+H	7.53398e-17	1.00000	7.53407e-17	1.000000
rad21	6.41815e-17	1.00000	6.41822e-17	1.000000
rad27	1.40132e-17	1.00000	1.40133e-17	1.000000
rad18	4.83607e-19	1.00000	4.83613e-19	1.000000
rad31	1.23048e-19	1.00000	1.23049e-19	1.000000
rad22	3.37142e-20	1.00000	3.37146e-20	1.000000
rad25	2.51875e-20	1.00000	2.51878e-20	1.000000
rad23	2.49205e-20	1.00000	2.49208e-20	1.000000
rad8	7.87851e-21	1.00000	7.87860e-21	1.000000
rad14	5.24900e-21	1.00000	5.24905e-21	1.000000
rad46	1.26406e-21	1.00000	1.26408e-21	1.000000
rad9	1.71458e-22	1.00000	1.71460e-22	1.000000
rad45	1.71150e-22	1.00000	1.71152e-22	1.000000
PAH7+H	4.58436e-23	1.00000	4.58441e-23	1.000000
Ph+MeAc	1.57507e-23	1.00000	1.57509e-23	1.000000
rad36	1.06088e-23	1.00000	1.06089e-23	1.000000
rad24	3.14014e-24	1.00000	3.14018e-24	1.000000
rad12	2.81433e-24	1.00000	2.81436e-24	1.000000
rad39	3.50378e-25	1.00000	3.50382e-25	1.000000
Ph+Allene	1.51049e-30	1.00000	1.51050e-30	1.000000
rad60syn	1.28206e-34	1.00000	1.28207e-34	1.000000
rad60anti	1.59149e-36	1.00000	1.59151e-36	1.000000

PhCH2CCH+H	4.77986e-38	1.00000	4.77992e-38	1.000000
rad37	6.18562e-39	1.00000	6.18569e-39	1.000000
rad5	4.64305e-42	1.00000	4.64310e-42	1.000000
PAH3+H	7.94639e-47	1.00000	7.94648e-47	1.000000
rad59	4.23217e-47	1.00000	4.23222e-47	1.000000
rad50	1.88978e-47	1.00000	1.88980e-47	1.000000
rad19syn	2.90899e-55	1.00000	2.90902e-55	1.000000
PAH10+CH3	1.11946e-58	1.00000	1.11947e-58	1.000000
rad52	1.01533e-58	1.00000	1.01534e-58	1.000000
rad43	2.65785e-59	1.00000	2.65788e-59	1.000000
rad54	9.00736e-60	1.00000	9.00746e-60	1.000000
rad62	1.01477e-61	1.00000	1.01478e-61	1.000000
rad51	5.25966e-65	1.00000	5.25972e-65	1.000000
rad70	6.96618e-68	1.00000	6.96626e-68	1.000000
PhcycC3H3_A+H	3.61492e-68	1.00000	3.61496e-68	1.000000
rad55	1.88539e-68	1.00000	1.88541e-68	1.000000
rad65	1.40425e-69	1.00000	1.40427e-69	1.000000
rad58	1.44128e-71	1.00000	1.44129e-71	1.000000
PAH1+H	1.21775e-72	1.00000	1.21776e-72	1.000000
rad34	1.18150e-74	1.00000	1.18152e-74	1.000000
rad42	5.27812e-77	1.00000	5.27818e-77	1.000000
rad41	2.77444e-77	1.00000	2.77448e-77	1.000000
rad47	7.58490e-85	1.00000	7.58499e-85	1.000000

0.1000000000E-06 Pa, 110.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04926e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999972	0.999972	0.999987	0.999987
Benzyl+C2H2	1.49723e-05	0.999987	0.00000	0.999987
rad6	1.26799e-05	1.000000	1.26801e-05	1.000000
rad2	4.45548e-09	1.000000	4.45555e-09	1.000000
rad7	9.23676e-10	1.000000	9.23690e-10	1.000000
rad1	2.87605e-10	1.000000	2.87609e-10	1.000000
rad10	2.29725e-10	1.000000	2.29728e-10	1.000000
rad11	2.26119e-10	1.000000	2.26123e-10	1.000000
rad3	2.95776e-11	1.000000	2.95780e-11	1.000000
rad4	1.50349e-11	1.000000	1.50351e-11	1.000000
rad35	1.36721e-11	1.000000	1.36723e-11	1.000000
rad28	8.92692e-12	1.000000	8.92705e-12	1.000000
PAH9+H	6.41642e-12	1.000000	6.41651e-12	1.000000
rad13	5.16542e-12	1.000000	5.16550e-12	1.000000
rad30	2.44539e-12	1.000000	2.44542e-12	1.000000
rad26	7.63096e-13	1.000000	7.63108e-13	1.000000
rad38	2.00045e-13	1.000000	2.00048e-13	1.000000
PhCHCCH2+H	1.98961e-14	1.000000	1.98964e-14	1.000000
rad33	9.83536e-15	1.000000	9.83551e-15	1.000000
rad15	8.47755e-15	1.000000	8.47768e-15	1.000000
PhCCH+CH3	4.58339e-15	1.000000	4.58346e-15	1.000000
PhCCCH3+H	1.21641e-15	1.000000	1.21643e-15	1.000000
rad20	8.88901e-17	1.000000	8.88914e-17	1.000000
rad21	5.57578e-17	1.000000	5.57586e-17	1.000000
rad27	3.11351e-17	1.000000	3.11356e-17	1.000000
rad18	4.19288e-19	1.000000	4.19294e-19	1.000000
rad8	2.54404e-19	1.000000	2.54407e-19	1.000000
rad25	1.19894e-19	1.000000	1.19896e-19	1.000000
rad31	1.05157e-19	1.000000	1.05158e-19	1.000000
rad14	3.10616e-20	1.000000	3.10621e-20	1.000000
rad22	2.90602e-20	1.000000	2.90606e-20	1.000000
rad46	2.24507e-20	1.000000	2.24510e-20	1.000000
rad23	2.11304e-20	1.000000	2.11307e-20	1.000000
rad9	8.70688e-21	1.000000	8.70701e-21	1.000000
PAH7+H	2.76443e-21	1.000000	2.76447e-21	1.000000
Ph+MeAc	1.76863e-21	1.000000	1.76865e-21	1.000000
rad12	1.91648e-22	1.000000	1.91651e-22	1.000000
rad45	1.46592e-22	1.000000	1.46594e-22	1.000000
rad39	3.70384e-23	1.000000	3.70390e-23	1.000000
rad36	9.08436e-24	1.000000	9.08450e-24	1.000000
rad24	2.94740e-24	1.000000	2.94744e-24	1.000000
Ph+Allene	1.91203e-24	1.000000	1.91206e-24	1.000000
rad60syn	2.70844e-26	1.000000	2.70848e-26	1.000000
rad60anti	1.02857e-27	1.000000	1.02859e-27	1.000000
PhCH2CCH+H	4.17303e-35	1.000000	4.17309e-35	1.000000
rad37	4.93990e-36	1.000000	4.93998e-36	1.000000
rad5	3.65960e-39	1.000000	3.65965e-39	1.000000
PAH3+H	7.43322e-44	1.000000	7.43333e-44	1.000000

rad59	3.95600e-44	1.000000	3.95606e-44	1.000000
rad50	1.66682e-44	1.000000	1.66684e-44	1.000000
rad19syn	3.14759e-52	1.000000	3.14764e-52	1.000000
PAH10+CH3	1.43147e-55	1.000000	1.43150e-55	1.000000
rad52	1.25369e-55	1.000000	1.25371e-55	1.000000
rad43	3.40041e-56	1.000000	3.40046e-56	1.000000
rad54	1.13804e-56	1.000000	1.13806e-56	1.000000
rad62	1.51936e-58	1.000000	1.51938e-58	1.000000
rad51	1.00811e-61	1.000000	1.00812e-61	1.000000
rad70	1.54185e-64	1.000000	1.54187e-64	1.000000
PhcycC3H3_A+H	8.37578e-65	1.000000	8.37591e-65	1.000000
rad55	4.32101e-65	1.000000	4.32107e-65	1.000000
rad65	3.46006e-66	1.000000	3.46011e-66	1.000000
rad58	3.45994e-68	1.000000	3.45999e-68	1.000000
PAH1+H	4.32774e-69	1.000000	4.32780e-69	1.000000
rad34	4.69833e-71	1.000000	4.69840e-71	1.000000
rad42	2.32701e-73	1.000000	2.32705e-73	1.000000
rad41	1.25513e-73	1.000000	1.25515e-73	1.000000
rad47	2.40263e-81	1.000000	2.40266e-81	1.000000

0.100000000E-06 Pa, 120.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87094e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999970	0.999970	0.999990	0.999990
Benzyl+C2H2	1.97206e-05	0.999990	0.00000	0.999990
rad6	1.01983e-05	1.000000	1.01985e-05	1.000000
rad2	3.62236e-09	1.000000	3.62243e-09	1.000000
rad7	7.44158e-10	1.000000	7.44173e-10	1.000000
rad1	2.34762e-10	1.000000	2.34767e-10	1.000000
rad10	1.87529e-10	1.000000	1.87533e-10	1.000000
rad11	1.82239e-10	1.000000	1.82243e-10	1.000000
rad3	2.42383e-11	1.000000	2.42388e-11	1.000000
rad28	2.08106e-11	1.000000	2.08110e-11	1.000000
rad35	1.91828e-11	1.000000	1.91832e-11	1.000000
rad4	1.23340e-11	1.000000	1.23342e-11	1.000000
PAH9+H	1.07590e-11	1.000000	1.07592e-11	1.000000
rad30	7.56110e-12	1.000000	7.56125e-12	1.000000
rad13	4.16577e-12	1.000000	4.16586e-12	1.000000
rad26	1.88652e-12	1.000000	1.88655e-12	1.000000
rad38	4.51811e-13	1.000000	4.51820e-13	1.000000
PhCHCCH2+H	1.45344e-13	1.000000	1.45347e-13	1.000000
rad15	4.43409e-14	1.000000	4.43418e-14	1.000000
PhCCH+CH3	4.36541e-14	1.000000	4.36550e-14	1.000000
PhCCCH3+H	1.25481e-14	1.000000	1.25483e-14	1.000000
rad33	7.94350e-15	1.000000	7.94365e-15	1.000000
rad20	7.78197e-17	1.000000	7.78212e-17	1.000000
rad27	5.84797e-17	1.000000	5.84808e-17	1.000000
rad21	4.88662e-17	1.000000	4.88671e-17	1.000000
rad8	4.61979e-18	1.000000	4.61988e-18	1.000000
rad25	4.23996e-19	1.000000	4.24005e-19	1.000000
rad18	3.66474e-19	1.000000	3.66481e-19	1.000000
rad46	2.47623e-19	1.000000	2.47628e-19	1.000000
rad9	2.29229e-19	1.000000	2.29234e-19	1.000000
rad14	1.31637e-19	1.000000	1.31639e-19	1.000000
rad31	9.05861e-20	1.000000	9.05879e-20	1.000000
PAH7+H	8.24636e-20	1.000000	8.24653e-20	1.000000
Ph+MeAc	7.42065e-20	1.000000	7.42080e-20	1.000000
rad22	2.52489e-20	1.000000	2.52494e-20	1.000000
rad23	1.84146e-20	1.000000	1.84150e-20	1.000000
rad12	6.23417e-21	1.000000	6.23429e-21	1.000000
rad39	1.51567e-21	1.000000	1.51570e-21	1.000000
Ph+Allene	1.55525e-22	1.000000	1.55528e-22	1.000000
rad45	1.33661e-22	1.000000	1.33663e-22	1.000000
rad36	8.28261e-24	1.000000	8.28278e-24	1.000000
rad24	2.79983e-24	1.000000	2.79988e-24	1.000000
rad60syn	1.65778e-24	1.000000	1.65782e-24	1.000000
rad60anti	9.96798e-26	1.000000	9.96818e-26	1.000000
PhCH2CCH+H	2.55818e-32	1.000000	2.55823e-32	1.000000
rad37	2.92004e-33	1.000000	2.92009e-33	1.000000
rad5	2.15309e-36	1.000000	2.15313e-36	1.000000
PAH3+H	4.91089e-41	1.000000	4.91099e-41	1.000000
rad59	2.61143e-41	1.000000	2.61148e-41	1.000000
rad50	1.03669e-41	1.000000	1.03671e-41	1.000000
rad19syn	2.38174e-49	1.000000	2.38178e-49	1.000000
PAH10+CH3	1.24201e-52	1.000000	1.24203e-52	1.000000

rad52	1.02187e-52	1.000000	1.02189e-52	1.000000
rad43	2.95240e-53	1.000000	2.95246e-53	1.000000
rad54	9.87444e-54	1.000000	9.87463e-54	1.000000
rad62	1.54432e-55	1.000000	1.54435e-55	1.000000
rad51	1.27539e-58	1.000000	1.27542e-58	1.000000
rad70	2.36637e-61	1.000000	2.36642e-61	1.000000
PhcycC3H3_A+H	1.35066e-61	1.000000	1.35069e-61	1.000000
rad55	6.87326e-62	1.000000	6.87339e-62	1.000000
rad65	5.64250e-63	1.000000	5.64262e-63	1.000000
rad58	5.78830e-65	1.000000	5.78842e-65	1.000000
PAH1+H	1.11123e-65	1.000000	1.11125e-65	1.000000
rad34	1.38118e-67	1.000000	1.38120e-67	1.000000
rad42	7.09185e-70	1.000000	7.09199e-70	1.000000
rad41	3.88418e-70	1.000000	3.88425e-70	1.000000
rad47	5.09844e-78	1.000000	5.09854e-78	1.000000

0.100000000E-06 Pa, 130.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.94360e-35 (1.00)		3.94350e-35 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.999966	0.999966	0.999992	0.999992
Benzyl+C2H2	2.58458e-05	0.999992	0.000000	0.999992
rad6	8.21559e-06	1.000000	8.21580e-06	1.000000
rad2	2.93695e-09	1.000000	2.93703e-09	1.000000
rad7	6.00531e-10	1.000000	6.00547e-10	1.000000
rad1	1.91170e-10	1.000000	1.91175e-10	1.000000
rad10	1.52606e-10	1.000000	1.52610e-10	1.000000
rad11	1.47122e-10	1.000000	1.47126e-10	1.000000
rad28	4.11620e-11	1.000000	4.11631e-11	1.000000
rad35	2.64321e-11	1.000000	2.64328e-11	1.000000
rad30	1.97586e-11	1.000000	1.97591e-11	1.000000
rad3	1.97073e-11	1.000000	1.97078e-11	1.000000
PAH9+H	1.71414e-11	1.000000	1.71419e-11	1.000000
rad4	1.00400e-11	1.000000	1.00403e-11	1.000000
rad26	3.92013e-12	1.000000	3.92023e-12	1.000000
rad13	3.36539e-12	1.000000	3.36547e-12	1.000000
rad38	9.21158e-13	1.000000	9.21181e-13	1.000000
PhCHCCH2+H	7.97825e-13	1.000000	7.97846e-13	1.000000
PhCCH+CH3	2.99386e-13	1.000000	2.99393e-13	1.000000
rad15	1.80342e-13	1.000000	1.80347e-13	1.000000
PhCCCH3+H	9.17592e-14	1.000000	9.17616e-14	1.000000
rad33	6.42724e-15	1.000000	6.42740e-15	1.000000
rad27	9.64820e-17	1.000000	9.64845e-17	1.000000
rad20	6.86000e-17	1.000000	6.86018e-17	1.000000
rad8	5.39424e-17	1.000000	5.39438e-17	1.000000
rad21	4.31269e-17	1.000000	4.31280e-17	1.000000
rad9	3.66914e-18	1.000000	3.66923e-18	1.000000
rad46	1.89879e-18	1.000000	1.89884e-18	1.000000
Ph+MeAc	1.77031e-18	1.000000	1.77036e-18	1.000000
PAH7+H	1.45539e-18	1.000000	1.45543e-18	1.000000
rad25	1.19313e-18	1.000000	1.19316e-18	1.000000
rad14	4.31579e-19	1.000000	4.31590e-19	1.000000
rad18	3.22323e-19	1.000000	3.22331e-19	1.000000
rad12	1.18333e-19	1.000000	1.18336e-19	1.000000
rad31	7.84765e-20	1.000000	7.84785e-20	1.000000
rad39	3.50961e-20	1.000000	3.50971e-20	1.000000
rad22	2.20704e-20	1.000000	2.20709e-20	1.000000
rad23	1.64907e-20	1.000000	1.64911e-20	1.000000
Ph+Allene	5.85917e-21	1.000000	5.85933e-21	1.000000
rad45	1.24392e-22	1.000000	1.24396e-22	1.000000
rad60syn	5.24603e-23	1.000000	5.24617e-23	1.000000
rad36	7.70947e-24	1.000000	7.70967e-24	1.000000
rad60anti	4.01382e-24	1.000000	4.01392e-24	1.000000
rad24	2.68673e-24	1.000000	2.68680e-24	1.000000
PhCH2CCH+H	1.64592e-25	1.000000	1.64596e-25	1.000000
rad37	3.40647e-26	1.000000	3.40656e-26	1.000000
rad5	1.70888e-33	1.000000	1.70892e-33	1.000000
PAH3+H	4.27243e-38	1.000000	4.27254e-38	1.000000
rad59	2.26992e-38	1.000000	2.26997e-38	1.000000
rad50	8.46822e-39	1.000000	8.46844e-39	1.000000
rad19syn	2.17200e-46	1.000000	2.17206e-46	1.000000
PAH10+CH3	9.32416e-50	1.000000	9.32440e-50	1.000000
rad52	8.26538e-50	1.000000	8.26560e-50	1.000000
rad43	2.21756e-50	1.000000	2.21762e-50	1.000000
rad54	8.67976e-51	1.000000	8.67998e-51	1.000000
rad62	1.35001e-52	1.000000	1.35005e-52	1.000000

rad51	1.51058e-55	1.00000	1.51062e-55	1.00000
rad70	3.12337e-58	1.00000	3.12345e-58	1.00000
PhcycC3H3_A+H	1.87301e-58	1.00000	1.87306e-58	1.00000
rad55	9.38183e-59	1.00000	9.38207e-59	1.00000
rad65	8.59860e-60	1.00000	8.59883e-60	1.00000
rad58	8.32633e-62	1.00000	8.32654e-62	1.00000
PAH1+H	2.46337e-62	1.00000	2.46343e-62	1.00000
rad34	3.51992e-64	1.00000	3.52001e-64	1.00000
rad42	1.85846e-66	1.00000	1.85851e-66	1.00000
rad41	1.02311e-66	1.00000	1.02314e-66	1.00000
rad47	1.01706e-74	1.00000	1.01709e-74	1.00000

0.100000000E-06 Pa, 140.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.44756e-33 (1.00)	1.44751e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999960	0.999960	0.999993	0.999993
Benzyl+C2H2	3.37321e-05	0.999994	0.00000	0.999993
rad6	6.62558e-06	1.00000	6.62581e-06	1.000000
rad2	2.41993e-09	1.00000	2.42001e-09	1.000000
rad7	4.85186e-10	1.00000	4.85203e-10	1.000000
rad1	1.58262e-10	1.00000	1.58268e-10	1.000000
rad10	1.24613e-10	1.00000	1.24617e-10	1.000000
rad11	1.18912e-10	1.00000	1.18916e-10	1.000000
rad28	7.15397e-11	1.00000	7.15421e-11	1.000000
rad30	4.53771e-11	1.00000	4.53786e-11	1.000000
rad35	3.60270e-11	1.00000	3.60282e-11	1.000000
PAH9+H	2.63415e-11	1.00000	2.63424e-11	1.000000
rad3	1.62265e-11	1.00000	1.62270e-11	1.000000
rad4	8.27728e-12	1.00000	8.27756e-12	1.000000
rad26	7.10643e-12	1.00000	7.10667e-12	1.000000
PhCHCCH2+H	3.50052e-12	1.00000	3.50063e-12	1.000000
rad13	2.72209e-12	1.00000	2.72218e-12	1.000000
rad38	1.74089e-12	1.00000	1.74095e-12	1.000000
PhCCH+CH3	1.58723e-12	1.00000	1.58728e-12	1.000000
rad15	6.03454e-13	1.00000	6.03474e-13	1.000000
PhCCCH3+H	5.12276e-13	1.00000	5.12294e-13	1.000000
rad33	5.20726e-15	1.00000	5.20743e-15	1.000000
rad8	4.45515e-16	1.00000	4.45530e-16	1.000000
rad27	1.43743e-16	1.00000	1.43748e-16	1.000000
rad20	6.08106e-17	1.00000	6.08126e-17	1.000000
rad9	3.97487e-17	1.00000	3.97500e-17	1.000000
rad21	3.82778e-17	1.00000	3.82791e-17	1.000000
Ph+MeAc	2.71352e-17	1.00000	2.71361e-17	1.000000
PAH7+H	1.70337e-17	1.00000	1.70343e-17	1.000000
rad46	1.09715e-17	1.00000	1.09718e-17	1.000000
rad25	2.80601e-18	1.00000	2.80611e-18	1.000000
rad12	1.47297e-18	1.00000	1.47302e-18	1.000000
rad14	1.15671e-18	1.00000	1.15675e-18	1.000000
rad39	5.20746e-19	1.00000	5.20764e-19	1.000000
rad18	2.84876e-19	1.00000	2.84886e-19	1.000000
Ph+Allene	1.30384e-19	1.00000	1.30389e-19	1.000000
rad31	6.83600e-20	1.00000	6.83623e-20	1.000000
rad22	1.93806e-20	1.00000	1.93813e-20	1.000000
rad23	1.52067e-20	1.00000	1.52072e-20	1.000000
rad60syn	1.00452e-21	1.00000	1.00456e-21	1.000000
rad45	1.20727e-22	1.00000	1.20731e-22	1.000000
rad60anti	9.33602e-23	1.00000	9.33634e-23	1.000000
PhCH2CCH+H	1.18691e-23	1.00000	1.18695e-23	1.000000
rad36	7.48500e-24	1.00000	7.48525e-24	1.000000
rad37	3.38832e-24	1.00000	3.38843e-24	1.000000
rad24	2.60095e-24	1.00000	2.60104e-24	1.000000
rad5	6.97168e-27	1.00000	6.97191e-27	1.000000
PAH3+H	1.15604e-28	1.00000	1.15608e-28	1.000000
rad59	5.78020e-29	1.00000	5.78040e-29	1.000000
rad50	7.59925e-30	1.00000	7.59951e-30	1.000000
rad19syn	1.46669e-43	1.00000	1.46674e-43	1.000000
rad52	4.36618e-47	1.00000	4.36633e-47	1.000000
PAH10+CH3	4.36084e-47	1.00000	4.36099e-47	1.000000
rad43	1.03733e-47	1.00000	1.03737e-47	1.000000
rad54	5.32723e-48	1.00000	5.32741e-48	1.000000
rad62	7.28936e-50	1.00000	7.28960e-50	1.000000
rad51	1.10700e-52	1.00000	1.10704e-52	1.000000
rad70	2.52073e-55	1.00000	2.52081e-55	1.000000
PhcycC3H3_A+H	1.58944e-55	1.00000	1.58950e-55	1.000000
rad55	7.81785e-56	1.00000	7.81811e-56	1.000000

rad65	8.14333e-57	1.00000	8.14361e-57	1.000000
rad58	7.33101e-59	1.00000	7.33126e-59	1.000000
PAH1+H	3.34202e-59	1.00000	3.34214e-59	1.000000
rad34	5.48110e-61	1.00000	5.48129e-61	1.000000
rad42	3.01462e-63	1.00000	3.01472e-63	1.000000
rad41	1.65091e-63	1.00000	1.65096e-63	1.000000
rad47	1.27344e-71	1.00000	1.27348e-71	1.000000

0.100000000E-06 Pa, 150.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27722e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999951	0.999951	0.999995	0.999995
Benzyl+C2H2	4.38584e-05	0.999995	0.00000	0.999995
rad6	5.34686e-06	1.00000	5.34709e-06	1.00000
rad2	1.95716e-09	1.00000	1.95725e-09	1.00000
rad7	3.92282e-10	1.00000	3.92299e-10	1.00000
rad1	1.28657e-10	1.00000	1.28663e-10	1.00000
rad28	1.12101e-10	1.00000	1.12105e-10	1.00000
rad10	1.02579e-10	1.00000	1.02584e-10	1.00000
rad11	9.61830e-11	1.00000	9.61872e-11	1.00000
rad30	9.42300e-11	1.00000	9.42342e-11	1.00000
rad35	4.87929e-11	1.00000	4.87950e-11	1.00000
PAH9+H	3.94528e-11	1.00000	3.94545e-11	1.00000
rad3	1.35018e-11	1.00000	1.35023e-11	1.00000
PhCHCCH2+H	1.28440e-11	1.00000	1.28445e-11	1.00000
rad26	1.15494e-11	1.00000	1.15499e-11	1.00000
rad4	6.89703e-12	1.00000	6.89734e-12	1.00000
PhCCH+CH3	6.85195e-12	1.00000	6.85225e-12	1.00000
rad38	3.10717e-12	1.00000	3.10730e-12	1.00000
PhCCCH3+H	2.30520e-12	1.00000	2.30530e-12	1.00000
rad13	2.20350e-12	1.00000	2.20359e-12	1.00000
rad15	1.73107e-12	1.00000	1.73115e-12	1.00000
rad33	4.22263e-15	1.00000	4.22281e-15	1.00000
rad8	2.79114e-15	1.00000	2.79126e-15	1.00000
rad9	3.15275e-16	1.00000	3.15289e-16	1.00000
Ph+MeAc	2.92010e-16	1.00000	2.92023e-16	1.00000
rad27	1.97358e-16	1.00000	1.97367e-16	1.00000
PAH7+H	1.43729e-16	1.00000	1.43735e-16	1.00000
rad20	5.41518e-17	1.00000	5.41542e-17	1.00000
rad46	5.06728e-17	1.00000	5.06750e-17	1.00000
rad21	3.41325e-17	1.00000	3.41340e-17	1.00000
rad12	1.30959e-17	1.00000	1.30965e-17	1.00000
rad25	5.71707e-18	1.00000	5.71732e-18	1.00000
rad39	5.41928e-18	1.00000	5.41952e-18	1.00000
rad14	2.63876e-18	1.00000	2.63888e-18	1.00000
Ph+Allene	1.93207e-18	1.00000	1.93216e-18	1.00000
rad18	2.52741e-19	1.00000	2.52753e-19	1.00000
rad31	6.00390e-20	1.00000	6.00416e-20	1.00000
rad22	1.70777e-20	1.00000	1.70785e-20	1.00000
rad23	1.44843e-20	1.00000	1.44850e-20	1.00000
rad60syn	1.29362e-20	1.00000	1.29368e-20	1.00000
rad60anti	1.42014e-21	1.00000	1.42020e-21	1.00000
PhCH2CCH+H	3.70702e-22	1.00000	3.70718e-22	1.00000
rad45	1.25477e-22	1.00000	1.25483e-22	1.00000
rad37	1.02530e-22	1.00000	1.02534e-22	1.00000
rad36	7.78422e-24	1.00000	7.78457e-24	1.00000
rad24	2.53762e-24	1.00000	2.53773e-24	1.00000
rad5	3.31294e-25	1.00000	3.31309e-25	1.00000
PAH3+H	1.81874e-26	1.00000	1.81882e-26	1.00000
rad59	8.19792e-27	1.00000	8.19828e-27	1.00000
rad50	5.49371e-28	1.00000	5.49395e-28	1.00000
rad19syn	2.97409e-40	1.00000	2.97422e-40	1.00000
rad52	5.08453e-44	1.00000	5.08475e-44	1.00000
PAH10+CH3	2.77465e-44	1.00000	2.77477e-44	1.00000
rad54	8.65325e-45	1.00000	8.65363e-45	1.00000
rad43	6.57138e-45	1.00000	6.57167e-45	1.00000
rad62	4.99919e-47	1.00000	4.99940e-47	1.00000
rad51	1.15983e-49	1.00000	1.15988e-49	1.00000
rad70	2.34406e-52	1.00000	2.34416e-52	1.00000
PhcycC3H3_A+H	1.51493e-52	1.00000	1.51499e-52	1.00000
rad55	7.36476e-53	1.00000	7.36508e-53	1.00000
rad65	1.07919e-53	1.00000	1.07924e-53	1.00000
rad58	7.17783e-56	1.00000	7.17814e-56	1.00000
PAH1+H	4.37524e-56	1.00000	4.37543e-56	1.00000
rad34	7.85934e-58	1.00000	7.85968e-58	1.00000

rad42	5.31533e-60	1.00000	5.31556e-60	1.00000
rad41	2.97642e-60	1.00000	2.97655e-60	1.00000
rad47	2.22231e-68	1.00000	2.22241e-68	1.00000

0.100000000E-06 Pa, 160.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	5.01169e-31	(1.00)	5.01140e-31	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.999939	0.999939	0.999996	0.999996
Benzyl+C2H2	5.68167e-05	0.999996	0.00000	0.999996
rad6	4.31621e-06	1.00000	4.31645e-06	1.00000
rad2	1.64665e-09	1.00000	1.64674e-09	1.00000
rad7	3.17281e-10	1.00000	3.17299e-10	1.00000
rad30	1.80710e-10	1.00000	1.80720e-10	1.00000
rad28	1.61454e-10	1.00000	1.61463e-10	1.00000
rad1	1.08851e-10	1.00000	1.08857e-10	1.00000
rad10	8.43710e-11	1.00000	8.43758e-11	1.00000
rad11	7.78281e-11	1.00000	7.78325e-11	1.00000
rad35	6.58339e-11	1.00000	6.58377e-11	1.00000
PAH9+H	5.80039e-11	1.00000	5.80072e-11	1.00000
PhCHCCH2+H	4.07642e-11	1.00000	4.07665e-11	1.00000
PhCCH+CH3	2.50395e-11	1.00000	2.50409e-11	1.00000
rad26	1.71743e-11	1.00000	1.71753e-11	1.00000
rad3	1.06832e-11	1.00000	1.06838e-11	1.00000
PhCCCH3+H	8.70744e-12	1.00000	8.70794e-12	1.00000
rad4	5.46561e-12	1.00000	5.46592e-12	1.00000
rad38	5.30693e-12	1.00000	5.30723e-12	1.00000
rad15	4.38964e-12	1.00000	4.38989e-12	1.00000
rad13	1.78445e-12	1.00000	1.78456e-12	1.00000
rad8	1.39783e-14	1.00000	1.39791e-14	1.00000
rad33	3.42602e-15	1.00000	3.42622e-15	1.00000
Ph+MeAc	2.35638e-15	1.00000	2.35652e-15	1.00000
rad9	1.94199e-15	1.00000	1.94210e-15	1.00000
PAH7+H	9.30779e-16	1.00000	9.30831e-16	1.00000
rad27	2.53544e-16	1.00000	2.53559e-16	1.00000
rad46	1.95509e-16	1.00000	1.95520e-16	1.00000
rad12	8.86482e-17	1.00000	8.86533e-17	1.00000
rad20	4.84050e-17	1.00000	4.84077e-17	1.00000
rad39	4.23028e-17	1.00000	4.23052e-17	1.00000
rad21	3.05546e-17	1.00000	3.05563e-17	1.00000
Ph+Allene	2.05966e-17	1.00000	2.05978e-17	1.00000
rad25	1.03660e-17	1.00000	1.03666e-17	1.00000
rad14	5.28082e-18	1.00000	5.28112e-18	1.00000
rad18	2.24903e-19	1.00000	2.24916e-19	1.00000
rad60syn	1.20851e-19	1.00000	1.20858e-19	1.00000
rad31	5.30680e-20	1.00000	5.30710e-20	1.00000
rad60anti	1.53286e-20	1.00000	1.53294e-20	1.00000
rad22	1.50875e-20	1.00000	1.50884e-20	1.00000
rad23	1.43091e-20	1.00000	1.43099e-20	1.00000
PhCH2CCH+H	7.07501e-21	1.00000	7.07541e-21	1.00000
rad37	1.92369e-21	1.00000	1.92380e-21	1.00000
rad45	1.34118e-22	1.00000	1.34126e-22	1.00000
rad36	8.32741e-24	1.00000	8.32789e-24	1.00000
rad5	7.57857e-24	1.00000	7.57900e-24	1.00000
rad24	2.49343e-24	1.00000	2.49358e-24	1.00000
PAH3+H	5.45434e-25	1.00000	5.45465e-25	1.00000
rad59	2.30298e-25	1.00000	2.30311e-25	1.00000
rad50	1.44925e-26	1.00000	1.44934e-26	1.00000
rad19syn	3.66146e-37	1.00000	3.66167e-37	1.00000
rad52	4.66836e-41	1.00000	4.66862e-41	1.00000
PAH10+CH3	1.37431e-41	1.00000	1.37439e-41	1.00000
rad54	1.04659e-41	1.00000	1.04665e-41	1.00000
rad43	3.21719e-42	1.00000	3.21737e-42	1.00000
rad62	2.33468e-44	1.00000	2.33481e-44	1.00000
rad51	6.68078e-47	1.00000	6.68116e-47	1.00000
rad70	1.33436e-49	1.00000	1.33443e-49	1.00000
PhcycC3H3_A+H	8.52147e-50	1.00000	8.52195e-50	1.00000
rad55	4.13519e-50	1.00000	4.13542e-50	1.00000
rad65	7.52093e-51	1.00000	7.52136e-51	1.00000
rad58	4.07352e-53	1.00000	4.07375e-53	1.00000
PAH1+H	2.97695e-53	1.00000	2.97711e-53	1.00000
rad34	5.75683e-55	1.00000	5.75716e-55	1.00000
rad42	4.98168e-57	1.00000	4.98196e-57	1.00000
rad41	2.88105e-57	1.00000	2.88122e-57	1.00000
rad47	2.05177e-65	1.00000	2.05189e-65	1.00000

0.100000000E-06 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54780e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999923	0.999923	0.999997	0.999997
Benzyl+C2H2	7.33326e-05	0.999996	0.00000	0.999997
rad6	3.48419e-06	1.000000	3.48445e-06	1.00000
rad2	1.27135e-09	1.000000	1.27145e-09	1.00000
rad30	3.25168e-10	1.000000	3.25192e-10	1.00000
rad7	2.56634e-10	1.000000	2.56653e-10	1.00000
rad28	2.16900e-10	1.000000	2.16916e-10	1.00000
PhCHCCH2+H	1.14825e-10	1.000000	1.14833e-10	1.00000
rad35	8.86097e-11	1.000000	8.86162e-11	1.00000
rad1	8.45536e-11	1.000000	8.45598e-11	1.00000
PAH9+H	8.41116e-11	1.000000	8.41178e-11	1.00000
PhCCH+CH3	7.97837e-11	1.000000	7.97896e-11	1.00000
rad10	6.78244e-11	1.000000	6.78293e-11	1.00000
rad11	6.29806e-11	1.000000	6.29852e-11	1.00000
PhCCCH3+H	2.84769e-11	1.000000	2.84790e-11	1.00000
rad26	2.37341e-11	1.000000	2.37358e-11	1.00000
rad15	1.00714e-11	1.000000	1.00722e-11	1.00000
rad3	9.03169e-12	1.000000	9.03235e-12	1.00000
rad38	8.75578e-12	1.000000	8.75642e-12	1.00000
rad4	4.62844e-12	1.000000	4.62877e-12	1.00000
rad13	1.44527e-12	1.000000	1.44538e-12	1.00000
rad8	5.82484e-14	1.000000	5.82526e-14	1.00000
Ph+MeAc	1.49954e-14	1.000000	1.49965e-14	1.00000
rad9	9.71719e-15	1.000000	9.71790e-15	1.00000
PAH7+H	4.85245e-15	1.000000	4.85281e-15	1.00000
rad33	2.78037e-15	1.000000	2.78057e-15	1.00000
rad46	6.51676e-16	1.000000	6.51723e-16	1.00000
rad12	4.79696e-16	1.000000	4.79731e-16	1.00000
rad27	3.08338e-16	1.000000	3.08361e-16	1.00000
rad39	2.60712e-16	1.000000	2.60731e-16	1.00000
Ph+Allene	1.67490e-16	1.000000	1.67502e-16	1.00000
rad20	4.34064e-17	1.000000	4.34096e-17	1.00000
rad21	2.74422e-17	1.000000	2.74443e-17	1.00000
rad25	1.70729e-17	1.000000	1.70742e-17	1.00000
rad14	9.48704e-18	1.000000	9.48774e-18	1.00000
rad60syn	8.67681e-19	1.000000	8.67744e-19	1.00000
rad18	2.00601e-19	1.000000	2.00616e-19	1.00000
rad60anti	1.24865e-19	1.000000	1.24875e-19	1.00000
PhCH2CCH+H	9.53106e-20	1.000000	9.53176e-20	1.00000
rad31	4.71084e-20	1.000000	4.71119e-20	1.00000
rad37	2.51869e-20	1.000000	2.51887e-20	1.00000
rad23	1.47369e-20	1.000000	1.47380e-20	1.00000
rad22	1.33547e-20	1.000000	1.33557e-20	1.00000
rad45	1.50778e-22	1.000000	1.50789e-22	1.00000
rad5	1.17216e-22	1.000000	1.17225e-22	1.00000
PAH3+H	1.00146e-23	1.000000	1.00154e-23	1.00000
rad36	9.37242e-24	1.000000	9.37310e-24	1.00000
rad59	4.07844e-24	1.000000	4.07874e-24	1.00000
rad24	2.46619e-24	1.000000	2.46637e-24	1.00000
rad50	2.47924e-25	1.000000	2.47942e-25	1.00000
rad19syn	3.67675e-29	1.000000	3.67702e-29	1.00000
rad52	2.29678e-31	1.000000	2.29695e-31	1.00000
rad54	8.12231e-39	1.000000	8.12291e-39	1.00000
PAH10+CH3	6.62226e-39	1.000000	6.62274e-39	1.00000
rad43	1.53228e-39	1.000000	1.53239e-39	1.00000
rad62	9.67415e-42	1.000000	9.67486e-42	1.00000
rad51	2.43415e-44	1.000000	2.43433e-44	1.00000
rad70	5.74450e-47	1.000000	5.74492e-47	1.00000
PhcycC3H3_A+H	3.41947e-47	1.000000	3.41972e-47	1.00000
rad55	1.68816e-47	1.000000	1.68828e-47	1.00000
rad65	2.93276e-48	1.000000	2.93297e-48	1.00000
rad58	1.58247e-50	1.000000	1.58258e-50	1.00000
PAH1+H	1.12917e-50	1.000000	1.12925e-50	1.00000
rad34	2.29571e-52	1.000000	2.29588e-52	1.00000
rad42	2.62282e-54	1.000000	2.62301e-54	1.00000
rad41	1.58287e-54	1.000000	1.58299e-54	1.00000
rad47	1.04851e-62	1.000000	1.04858e-62	1.00000

0.100000000E-06 Pa, 180.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 4.69315e-29 (1.00) 4.69271e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999903	0.999903	0.999997	0.999997
Benzyl+C2H2	9.42878e-05	0.999997	0.00000	0.999997
rad6	2.81183e-06	1.00000	2.81210e-06	1.000000
rad2	1.11327e-09	1.00000	1.11337e-09	1.000000
rad30	5.55652e-10	1.00000	5.55704e-10	1.000000
PhCHCCH2+H	2.92822e-10	1.00000	2.92849e-10	1.000000
rad28	2.74914e-10	1.00000	2.74940e-10	1.000000
PhCCH+CH3	2.26786e-10	1.00000	2.26807e-10	1.000000
rad7	2.07538e-10	1.00000	2.07558e-10	1.000000
PAH9+H	1.20677e-10	1.00000	1.20688e-10	1.000000
rad35	1.19033e-10	1.00000	1.19044e-10	1.000000
PhCCCH3+H	8.25906e-11	1.00000	8.25984e-11	1.000000
rad1	7.45298e-11	1.00000	7.45368e-11	1.000000
rad10	5.66397e-11	1.00000	5.66451e-11	1.000000
rad11	5.09568e-11	1.00000	5.09616e-11	1.000000
rad26	3.08513e-11	1.00000	3.08542e-11	1.000000
rad15	2.12854e-11	1.00000	2.12874e-11	1.000000
rad38	1.40491e-11	1.00000	1.40505e-11	1.000000
rad3	7.52133e-12	1.00000	7.52204e-12	1.000000
rad4	3.86149e-12	1.00000	3.86186e-12	1.000000
rad13	1.17041e-12	1.00000	1.17052e-12	1.000000
rad8	2.08346e-13	1.00000	2.08366e-13	1.000000
Ph+MeAc	7.82640e-14	1.00000	7.82713e-14	1.000000
rad9	4.09038e-14	1.00000	4.09076e-14	1.000000
PAH7+H	2.11345e-14	1.00000	2.11365e-14	1.000000
rad33	2.25640e-15	1.00000	2.25661e-15	1.000000
rad12	2.15502e-15	1.00000	2.15523e-15	1.000000
rad46	1.92593e-15	1.00000	1.92611e-15	1.000000
rad39	1.32003e-15	1.00000	1.32016e-15	1.000000
Ph+Allene	1.08713e-15	1.00000	1.08723e-15	1.000000
rad27	3.58163e-16	1.00000	3.58197e-16	1.000000
rad20	3.90311e-17	1.00000	3.90348e-17	1.000000
rad25	2.59516e-17	1.00000	2.59541e-17	1.000000
rad21	2.47176e-17	1.00000	2.47200e-17	1.000000
rad14	1.55757e-17	1.00000	1.55771e-17	1.000000
rad60syn	5.00699e-18	1.00000	5.00746e-18	1.000000
PhCH2CCH+H	9.66848e-19	1.00000	9.66939e-19	1.000000
rad60anti	8.05148e-19	1.00000	8.05224e-19	1.000000
rad37	2.45034e-19	1.00000	2.45057e-19	1.000000
rad18	1.79258e-19	1.00000	1.79275e-19	1.000000
rad31	4.22731e-20	1.00000	4.22771e-20	1.000000
rad23	1.58850e-20	1.00000	1.58865e-20	1.000000
rad22	1.18372e-20	1.00000	1.18383e-20	1.000000
rad5	1.33540e-21	1.00000	1.33552e-21	1.000000
rad45	1.79978e-22	1.00000	1.79995e-22	1.000000
PAH3+H	1.31623e-22	1.00000	1.31635e-22	1.000000
rad59	5.19690e-23	1.00000	5.19739e-23	1.000000
rad36	1.12038e-23	1.00000	1.12049e-23	1.000000
rad50	3.08695e-24	1.00000	3.08725e-24	1.000000
rad24	2.45452e-24	1.00000	2.45475e-24	1.000000
rad19syn	4.66138e-27	1.00000	4.66182e-27	1.000000
rad52	1.37731e-29	1.00000	1.37744e-29	1.000000
rad54	8.06866e-36	1.00000	8.06942e-36	1.000000
PAH10+CH3	5.46500e-36	1.00000	5.46551e-36	1.000000
rad43	1.25902e-36	1.00000	1.25914e-36	1.000000
rad62	7.19412e-39	1.00000	7.19480e-39	1.000000
rad51	1.15313e-41	1.00000	1.15324e-41	1.000000
rad70	3.98154e-44	1.00000	3.98192e-44	1.000000
PhcycC3H3_A+H	2.07644e-44	1.00000	2.07663e-44	1.000000
rad55	1.07056e-44	1.00000	1.07066e-44	1.000000
rad65	9.17373e-46	1.00000	9.17459e-46	1.000000
rad58	8.58343e-48	1.00000	8.58424e-48	1.000000
PAH1+H	2.99042e-48	1.00000	2.99070e-48	1.000000
rad34	5.91557e-50	1.00000	5.91613e-50	1.000000
rad42	9.21760e-52	1.00000	9.21847e-52	1.000000
rad41	5.89569e-52	1.00000	5.89624e-52	1.000000
rad47	3.85148e-60	1.00000	3.85184e-60	1.000000

0.100000000E-06 Pa, 190.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.16530e-28 (1.00)	3.16492e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.999877	0.999877	0.999998	0.999998
Benzyl+C2H2	0.000120746	0.999998	0.00000	0.999998
rad6	2.26814e-06	1.00000	2.26842e-06	1.00000
rad30	9.10076e-10	1.00000	9.10186e-10	1.00000
rad2	8.90137e-10	1.00000	8.90245e-10	1.00000
PhCHCCH2+H	6.86686e-10	1.00000	6.86768e-10	1.00000
PhCCH+CH3	5.85494e-10	1.00000	5.85564e-10	1.00000
rad28	3.31719e-10	1.00000	3.31759e-10	1.00000
PhCCCH3+H	2.16470e-10	1.00000	2.16496e-10	1.00000
PAH9+H	1.71637e-10	1.00000	1.71657e-10	1.00000
rad7	1.67767e-10	1.00000	1.67787e-10	1.00000
rad35	1.59589e-10	1.00000	1.59608e-10	1.00000
rad1	6.00200e-11	1.00000	6.00272e-11	1.00000
rad10	4.64246e-11	1.00000	4.64302e-11	1.00000
rad15	4.20213e-11	1.00000	4.20264e-11	1.00000
rad11	4.12125e-11	1.00000	4.12175e-11	1.00000
rad26	3.80809e-11	1.00000	3.80855e-11	1.00000
rad38	2.20306e-11	1.00000	2.20333e-11	1.00000
rad3	6.08346e-12	1.00000	6.08419e-12	1.00000
rad4	3.12953e-12	1.00000	3.12991e-12	1.00000
rad13	9.47500e-13	1.00000	9.47614e-13	1.00000
rad8	6.55564e-13	1.00000	6.55643e-13	1.00000
Ph+MeAc	3.45542e-13	1.00000	3.45584e-13	1.00000
rad9	1.48900e-13	1.00000	1.48917e-13	1.00000
PAH7+H	7.91803e-14	1.00000	7.91899e-14	1.00000
rad12	8.28061e-15	1.00000	8.28161e-15	1.00000
Ph+Allene	5.83712e-15	1.00000	5.83782e-15	1.00000
rad39	5.66560e-15	1.00000	5.66628e-15	1.00000
rad46	5.15013e-15	1.00000	5.15075e-15	1.00000
rad33	1.83081e-15	1.00000	1.83103e-15	1.00000
rad27	4.00215e-16	1.00000	4.00264e-16	1.00000
rad25	3.68657e-17	1.00000	3.68701e-17	1.00000
rad20	3.51819e-17	1.00000	3.51862e-17	1.00000
rad60syn	2.40561e-17	1.00000	2.40590e-17	1.00000
rad14	2.37009e-17	1.00000	2.37037e-17	1.00000
rad21	2.23203e-17	1.00000	2.23230e-17	1.00000
PhCH2CCH+H	7.73350e-18	1.00000	7.73444e-18	1.00000
rad60anti	4.26710e-18	1.00000	4.26761e-18	1.00000
rad37	1.85739e-18	1.00000	1.85761e-18	1.00000
rad18	1.60422e-19	1.00000	1.60441e-19	1.00000
rad31	3.81455e-20	1.00000	3.81501e-20	1.00000
rad23	1.79890e-20	1.00000	1.79911e-20	1.00000
rad5	1.17921e-20	1.00000	1.17935e-20	1.00000
rad22	1.05022e-20	1.00000	1.05034e-20	1.00000
PAH3+H	1.32122e-21	1.00000	1.32138e-21	1.00000
rad59	5.06390e-22	1.00000	5.06451e-22	1.00000
rad45	2.29218e-22	1.00000	2.29246e-22	1.00000
rad50	2.96740e-23	1.00000	2.96776e-23	1.00000
rad36	1.42945e-23	1.00000	1.42963e-23	1.00000
rad24	2.45767e-24	1.00000	2.45797e-24	1.00000
rad19syn	1.22411e-25	1.00000	1.22426e-25	1.00000
rad54	5.45682e-28	1.00000	5.45748e-28	1.00000
PAH10+CH3	3.67387e-28	1.00000	3.67431e-28	1.00000
rad52	3.13061e-28	1.00000	3.13098e-28	1.00000
rad43	8.93612e-29	1.00000	8.93720e-29	1.00000
rad62	4.15621e-30	1.00000	4.15671e-30	1.00000
rad51	2.56194e-31	1.00000	2.56225e-31	1.00000
rad70	7.96541e-41	1.00000	7.96637e-41	1.00000
PhcycC3H3_A+H	3.95379e-41	1.00000	3.95426e-41	1.00000
rad55	2.07908e-41	1.00000	2.07933e-41	1.00000
rad65	5.51260e-43	1.00000	5.51327e-43	1.00000
rad58	1.52825e-44	1.00000	1.52844e-44	1.00000
PAH1+H	1.34032e-45	1.00000	1.34049e-45	1.00000
rad34	1.87868e-47	1.00000	1.87891e-47	1.00000
rad42	2.99124e-49	1.00000	2.99160e-49	1.00000
rad41	2.03940e-49	1.00000	2.03965e-49	1.00000
rad47	1.45209e-57	1.00000	1.45227e-57	1.00000

0.100000000E-06 Pa, 200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76088e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999844	0.999844	0.999998	0.999998
Benzyl+C2H2	0.000153979	0.999998	0.00000	0.999998
rad6	1.82841e-06	1.00000	1.82869e-06	1.00000
PhCHCCH2+H	1.49926e-09	1.00000	1.49949e-09	1.00000

rad30	1.43889e-09	1.000000	1.43911e-09	1.000000
PhCCH+CH3	1.39259e-09	1.000000	1.39280e-09	1.000000
rad2	7.30169e-10	1.000000	7.30281e-10	1.000000
PhCCCH3+H	5.20495e-10	1.000000	5.20575e-10	1.000000
rad28	3.83794e-10	1.000000	3.83853e-10	1.000000
PAH9+H	2.42287e-10	1.000000	2.42325e-10	1.000000
rad35	2.13492e-10	1.000000	2.13524e-10	1.000000
rad7	1.35539e-10	1.000000	1.35560e-10	1.000000
rad15	7.83498e-11	1.000000	7.83618e-11	1.000000
rad1	4.96180e-11	1.000000	4.96256e-11	1.000000
rad26	4.49744e-11	1.000000	4.49813e-11	1.000000
rad10	3.79736e-11	1.000000	3.79794e-11	1.000000
rad38	3.38821e-11	1.000000	3.38873e-11	1.000000
rad11	3.33134e-11	1.000000	3.33185e-11	1.000000
rad3	4.97136e-12	1.000000	4.97213e-12	1.000000
rad4	2.56303e-12	1.000000	2.56342e-12	1.000000
rad8	1.85042e-12	1.000000	1.85071e-12	1.000000
Ph+MeAc	1.32292e-12	1.000000	1.32313e-12	1.000000
rad13	7.66661e-13	1.000000	7.66779e-13	1.000000
rad9	4.79180e-13	1.000000	4.79254e-13	1.000000
PAH7+H	2.61186e-13	1.000000	2.61227e-13	1.000000
rad12	2.78683e-14	1.000000	2.78726e-14	1.000000
Ph+Allene	2.66777e-14	1.000000	2.66818e-14	1.000000
rad39	2.11350e-14	1.000000	2.11382e-14	1.000000
rad46	1.26631e-14	1.000000	1.26650e-14	1.000000
rad33	1.48499e-15	1.000000	1.48522e-15	1.000000
rad27	4.32633e-16	1.000000	4.32700e-16	1.000000
rad60syn	9.89774e-17	1.000000	9.89927e-17	1.000000
PhCH2CCH+H	5.05401e-17	1.000000	5.05479e-17	1.000000
rad25	4.94340e-17	1.000000	4.94417e-17	1.000000
rad14	3.38039e-17	1.000000	3.38091e-17	1.000000
rad20	3.17819e-17	1.000000	3.17868e-17	1.000000
rad21	2.02024e-17	1.000000	2.02055e-17	1.000000
rad60anti	1.91539e-17	1.000000	1.91569e-17	1.000000
rad37	1.13914e-17	1.000000	1.13932e-17	1.000000
rad18	1.43736e-19	1.000000	1.43758e-19	1.000000
rad5	8.38248e-20	1.000000	8.38377e-20	1.000000
rad31	3.46842e-20	1.000000	3.46895e-20	1.000000
rad23	2.14287e-20	1.000000	2.14320e-20	1.000000
PAH3+H	1.05456e-20	1.000000	1.05472e-20	1.000000
rad22	9.32362e-21	1.000000	9.32506e-21	1.000000
rad59	3.92886e-21	1.000000	3.92946e-21	1.000000
rad45	3.03475e-22	1.000000	3.03522e-22	1.000000
rad50	2.28898e-22	1.000000	2.28933e-22	1.000000
rad36	1.89660e-23	1.000000	1.89689e-23	1.000000
rad24	2.47547e-24	1.000000	2.47586e-24	1.000000
rad19syn	1.82537e-24	1.000000	1.82565e-24	1.000000
rad54	1.37160e-26	1.000000	1.37181e-26	1.000000
PAH10+CH3	9.40146e-27	1.000000	9.40291e-27	1.000000
rad52	4.44081e-27	1.000000	4.44149e-27	1.000000
rad43	2.30283e-27	1.000000	2.30318e-27	1.000000
rad62	2.68735e-28	1.000000	2.68777e-28	1.000000
rad51	1.45636e-29	1.000000	1.45659e-29	1.000000
rad65	1.67715e-32	1.000000	1.67740e-32	1.000000
rad70	1.91803e-37	1.000000	1.91832e-37	1.000000
PhcycC3H3_A+H	9.56229e-38	1.000000	9.56376e-38	1.000000
rad55	5.03071e-38	1.000000	5.03148e-38	1.000000
rad58	3.68356e-41	1.000000	3.68412e-41	1.000000
PAH1+H	2.10569e-42	1.000000	2.10601e-42	1.000000
rad34	2.01371e-44	1.000000	2.01402e-44	1.000000
rad42	6.99851e-47	1.000000	6.99959e-47	1.000000
rad41	4.82529e-47	1.000000	4.82603e-47	1.000000
rad47	4.79946e-55	1.000000	4.80020e-55	1.000000

0.100000000E-06 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.30956e-27 (1.00)	8.30794e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999803	0.999803	0.999999	0.999999
Benzyl+C2H2	0.000195496	0.999998	0.00000	0.999999
rad6	1.47280e-06	1.000000	1.47309e-06	1.000000
PhCCH+CH3	3.08663e-09	1.000000	3.08723e-09	1.000000
PhCHCCH2+H	3.07804e-09	1.000000	3.07864e-09	1.000000
rad30	2.20829e-09	1.000000	2.20873e-09	1.000000
PhCCCH3+H	1.16208e-09	1.000000	1.16231e-09	1.000000
rad2	5.91370e-10	1.000000	5.91485e-10	1.000000

rad28	4.28260e-10	1.000000	4.28344e-10	1.00000
PAH9+H	3.39691e-10	1.000000	3.39758e-10	1.00000
rad35	2.84861e-10	1.000000	2.84917e-10	1.00000
rad15	1.39185e-10	1.000000	1.39212e-10	1.00000
rad7	1.09426e-10	1.000000	1.09447e-10	1.00000
rad38	5.12410e-11	1.000000	5.12510e-11	1.00000
rad26	5.11342e-11	1.000000	5.11442e-11	1.00000
rad1	4.05259e-11	1.000000	4.05338e-11	1.00000
rad10	3.11395e-11	1.000000	3.11456e-11	1.00000
rad11	2.69101e-11	1.000000	2.69154e-11	1.00000
rad8	4.75997e-12	1.000000	4.76090e-12	1.00000
Ph+MeAc	4.48092e-12	1.000000	4.48179e-12	1.00000
rad3	4.17883e-12	1.000000	4.17965e-12	1.00000
rad4	2.15958e-12	1.000000	2.16000e-12	1.00000
rad9	1.38775e-12	1.000000	1.38802e-12	1.00000
PAH7+H	7.72936e-13	1.000000	7.73087e-13	1.00000
rad13	6.19952e-13	1.000000	6.20073e-13	1.00000
Ph+Allene	1.06212e-13	1.000000	1.06232e-13	1.00000
rad12	8.37368e-14	1.000000	8.37532e-14	1.00000
rad39	6.99232e-14	1.000000	6.99368e-14	1.00000
rad46	2.89984e-14	1.000000	2.90041e-14	1.00000
rad33	1.20394e-15	1.000000	1.20417e-15	1.00000
rad27	4.54519e-16	1.000000	4.54608e-16	1.00000
rad60syn	3.56772e-16	1.000000	3.56842e-16	1.00000
PhCH2CCH+H	2.77795e-16	1.000000	2.77849e-16	1.00000
rad60anti	7.46103e-17	1.000000	7.46249e-17	1.00000
rad25	6.30799e-17	1.000000	6.30923e-17	1.00000
rad37	5.82812e-17	1.000000	5.82926e-17	1.00000
rad14	4.56042e-17	1.000000	4.56131e-17	1.00000
rad20	2.87689e-17	1.000000	2.87746e-17	1.00000
rad21	1.83254e-17	1.000000	1.83290e-17	1.00000
rad5	4.94771e-19	1.000000	4.94868e-19	1.00000
rad18	1.28912e-19	1.000000	1.28937e-19	1.00000
PAH3+H	6.92409e-20	1.000000	6.92544e-20	1.00000
rad31	3.17993e-20	1.000000	3.18055e-20	1.00000
rad23	2.68452e-20	1.000000	2.68504e-20	1.00000
rad59	2.51009e-20	1.000000	2.51058e-20	1.00000
rad22	8.28060e-21	1.000000	8.28222e-21	1.00000
rad50	1.46375e-21	1.000000	1.46404e-21	1.00000
rad45	4.18953e-22	1.000000	4.19035e-22	1.00000
rad36	2.62504e-23	1.000000	2.62555e-23	1.00000
rad19syn	2.00818e-23	1.000000	2.00857e-23	1.00000
rad24	2.50821e-24	1.000000	2.50870e-24	1.00000
rad54	1.94322e-25	1.000000	1.94360e-25	1.00000
PAH10+CH3	1.33349e-25	1.000000	1.33375e-25	1.00000
rad52	4.73526e-26	1.000000	4.73619e-26	1.00000
rad43	3.24699e-26	1.000000	3.24763e-26	1.00000
rad62	4.87675e-27	1.000000	4.87770e-27	1.00000
rad51	2.76098e-28	1.000000	2.76152e-28	1.00000
rad70	4.15017e-29	1.000000	4.15098e-29	1.00000
PhcycC3H3_A+H	3.67776e-29	1.000000	3.67848e-29	1.00000
rad55	1.45178e-29	1.000000	1.45206e-29	1.00000
rad58	1.88404e-30	1.000000	1.88441e-30	1.00000
rad65	8.86433e-31	1.000000	8.86607e-31	1.00000
PAH1+H	5.49758e-39	1.000000	5.49865e-39	1.00000
rad34	5.07924e-41	1.000000	5.08023e-41	1.00000
rad42	2.00301e-44	1.000000	2.00340e-44	1.00000
rad41	9.12517e-45	1.000000	9.12696e-45	1.00000
rad47	4.20713e-52	1.000000	4.20795e-52	1.00000

0.100000000E-06 Pa, 220.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.40057e-26 (1.00)	3.39973e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999752	0.999752	0.999999	0.999999
Benzyl+C2H2	0.000247078	0.999999	0.00000	0.999999
rad6	1.18533e-06	1.00000	1.18562e-06	1.00000
PhCCH+CH3	6.43487e-09	1.00000	6.43646e-09	1.00000
PhCHCCH2+H	5.99032e-09	1.00000	5.99180e-09	1.00000
rad30	3.30404e-09	1.00000	3.30486e-09	1.00000
PhCCCH3+H	2.43292e-09	1.00000	2.43352e-09	1.00000
PAH9+H	4.73188e-10	1.00000	4.73305e-10	1.00000
rad2	4.70481e-10	1.00000	4.70598e-10	1.00000
rad28	4.63089e-10	1.00000	4.63204e-10	1.00000
rad35	3.78955e-10	1.00000	3.79048e-10	1.00000
rad15	2.37238e-10	1.00000	2.37296e-10	1.00000

rad7	8.82733e-11	1.00000	8.82951e-11	1.00000
rad38	7.63517e-11	1.00000	7.63705e-11	1.00000
rad26	5.62501e-11	1.00000	5.62640e-11	1.00000
rad1	3.25374e-11	1.00000	3.25454e-11	1.00000
rad10	2.54960e-11	1.00000	2.55023e-11	1.00000
rad11	2.17210e-11	1.00000	2.17263e-11	1.00000
Ph+MeAc	1.36495e-11	1.00000	1.36529e-11	1.00000
rad8	1.13030e-11	1.00000	1.13058e-11	1.00000
rad9	3.66978e-12	1.00000	3.67068e-12	1.00000
rad3	3.40634e-12	1.00000	3.40719e-12	1.00000
PAH7+H	2.08369e-12	1.00000	2.08421e-12	1.00000
rad4	1.76494e-12	1.00000	1.76537e-12	1.00000
rad13	5.00960e-13	1.00000	5.01083e-13	1.00000
Ph+Allene	3.75382e-13	1.00000	3.75474e-13	1.00000
rad12	2.28168e-13	1.00000	2.28224e-13	1.00000
rad39	2.08575e-13	1.00000	2.08626e-13	1.00000
rad46	6.24893e-14	1.00000	6.25047e-14	1.00000
PhCH2CCH+H	1.31496e-15	1.00000	1.31529e-15	1.00000
rad60syn	1.14776e-15	1.00000	1.14805e-15	1.00000
rad33	9.75564e-16	1.00000	9.75805e-16	1.00000
rad27	4.65817e-16	1.00000	4.65933e-16	1.00000
rad60anti	2.57261e-16	1.00000	2.57324e-16	1.00000
rad37	2.55042e-16	1.00000	2.55105e-16	1.00000
rad25	7.71069e-17	1.00000	7.71260e-17	1.00000
rad14	5.86286e-17	1.00000	5.86431e-17	1.00000
rad20	2.60925e-17	1.00000	2.60990e-17	1.00000
rad21	1.66578e-17	1.00000	1.66619e-17	1.00000
rad5	2.48675e-18	1.00000	2.48737e-18	1.00000
PAH3+H	3.84313e-19	1.00000	3.84408e-19	1.00000
rad59	1.35685e-19	1.00000	1.35719e-19	1.00000
rad18	1.15714e-19	1.00000	1.15743e-19	1.00000
rad23	3.52949e-20	1.00000	3.53037e-20	1.00000
rad31	2.94011e-20	1.00000	2.94083e-20	1.00000
rad50	7.96594e-21	1.00000	7.96790e-21	1.00000
rad22	7.35584e-21	1.00000	7.35766e-21	1.00000
rad45	5.89569e-22	1.00000	5.89714e-22	1.00000
rad19syn	1.76809e-22	1.00000	1.76853e-22	1.00000
rad36	3.70510e-23	1.00000	3.70601e-23	1.00000
rad24	2.55665e-24	1.00000	2.55728e-24	1.00000
rad54	2.07925e-24	1.00000	2.07977e-24	1.00000
PAH10+CH3	1.42538e-24	1.00000	1.42573e-24	1.00000
rad52	4.06722e-25	1.00000	4.06823e-25	1.00000
rad43	3.45425e-25	1.00000	3.45510e-25	1.00000
rad62	5.97333e-26	1.00000	5.97481e-26	1.00000
rad51	3.50353e-27	1.00000	3.50440e-27	1.00000
PhcycC3H3_A+H	9.87085e-28	1.00000	9.87329e-28	1.00000
rad70	8.97428e-28	1.00000	8.97650e-28	1.00000
rad55	3.38159e-28	1.00000	3.38243e-28	1.00000
rad58	5.59629e-29	1.00000	5.59768e-29	1.00000
rad65	1.55276e-29	1.00000	1.55314e-29	1.00000
PAH1+H	3.10930e-30	1.00000	3.11007e-30	1.00000
rad34	2.04140e-38	1.00000	2.04191e-38	1.00000
rad42	4.73510e-42	1.00000	4.73627e-42	1.00000
rad47	1.49504e-42	1.00000	1.49541e-42	1.00000
rad41	1.11523e-42	1.00000	1.11551e-42	1.00000

0.100000000E-06 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22933e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999688	0.999688	0.999999	0.999999
Benzyl+C2H2	0.000310802	0.999999	0.00000	0.999999
rad6	9.53078e-07	1.000000	9.53374e-07	1.000000
PhCCH+CH3	1.27141e-08	1.000000	1.27181e-08	1.000000
PhCHCCH2+H	1.11240e-08	1.000000	1.11275e-08	1.000000
rad30	4.83587e-09	1.000000	4.83737e-09	1.000000
PhCCCH3+H	4.81498e-09	1.000000	4.81647e-09	1.000000
PAH9+H	6.55030e-10	1.000000	6.55233e-10	1.000000
rad35	5.02428e-10	1.000000	5.02585e-10	1.000000
rad28	4.87168e-10	1.000000	4.87320e-10	1.000000
rad2	3.99030e-10	1.000000	3.99154e-10	1.000000
rad15	3.90192e-10	1.000000	3.90314e-10	1.000000
rad38	1.12258e-10	1.000000	1.12293e-10	1.000000
rad7	7.11485e-11	1.000000	7.11706e-11	1.000000
rad26	6.01174e-11	1.000000	6.01361e-11	1.000000
Ph+MeAc	3.79022e-11	1.000000	3.79140e-11	1.000000

rad1	2.78702e-11	1.000000	2.78789e-11	1.000000
rad8	2.50389e-11	1.000000	2.50467e-11	1.000000
rad10	2.11100e-11	1.000000	2.11165e-11	1.000000
rad11	1.75179e-11	1.000000	1.75233e-11	1.000000
rad9	8.96768e-12	1.000000	8.97046e-12	1.000000
PAH7+H	5.18166e-12	1.000000	5.18327e-12	1.000000
rad3	2.85981e-12	1.000000	2.86070e-12	1.000000
rad4	1.48595e-12	1.000000	1.48642e-12	1.000000
Ph+Allene	1.19625e-12	1.000000	1.19662e-12	1.000000
rad12	5.71077e-13	1.000000	5.71255e-13	1.000000
rad39	5.68618e-13	1.000000	5.68795e-13	1.000000
rad13	4.04493e-13	1.000000	4.04619e-13	1.000000
rad46	1.27781e-13	1.000000	1.27821e-13	1.000000
PhCH2CCH+H	5.46596e-15	1.000000	5.46766e-15	1.000000
rad60syn	3.34628e-15	1.000000	3.34732e-15	1.000000
rad37	9.74541e-16	1.000000	9.74844e-16	1.000000
rad60anti	7.98156e-16	1.000000	7.98404e-16	1.000000
rad33	7.90055e-16	1.000000	7.90301e-16	1.000000
rad27	4.67155e-16	1.000000	4.67300e-16	1.000000
rad25	9.07843e-17	1.000000	9.08125e-17	1.000000
rad14	7.22695e-17	1.000000	7.22919e-17	1.000000
rad20	2.37105e-17	1.000000	2.37179e-17	1.000000
rad21	1.51735e-17	1.000000	1.51782e-17	1.000000
rad5	1.08663e-17	1.000000	1.08697e-17	1.000000
PAH3+H	1.84375e-18	1.000000	1.84433e-18	1.000000
rad59	6.34526e-19	1.000000	6.34724e-19	1.000000
rad18	1.03944e-19	1.000000	1.03977e-19	1.000000
rad23	4.85828e-20	1.000000	4.85979e-20	1.000000
rad50	3.76905e-20	1.000000	3.77022e-20	1.000000
rad31	2.74459e-20	1.000000	2.74544e-20	1.000000
rad22	6.53495e-21	1.000000	6.53698e-21	1.000000
rad19syn	1.28690e-21	1.000000	1.28730e-21	1.000000
rad45	9.26716e-22	1.000000	9.27004e-22	1.000000
rad36	5.84410e-23	1.000000	5.84592e-23	1.000000
rad54	1.79674e-23	1.000000	1.79730e-23	1.000000
PAH10+CH3	1.22748e-23	1.000000	1.22786e-23	1.000000
rad43	2.95796e-24	1.000000	2.95888e-24	1.000000
rad52	2.90478e-24	1.000000	2.90569e-24	1.000000
rad24	2.62200e-24	1.000000	2.62281e-24	1.000000
rad62	5.74610e-25	1.000000	5.74789e-25	1.000000
rad51	3.51924e-26	1.000000	3.52033e-26	1.000000
PhcycC3H3_A+H	1.69392e-26	1.000000	1.69445e-26	1.000000
rad70	1.30480e-26	1.000000	1.30521e-26	1.000000
rad55	5.18384e-27	1.000000	5.18546e-27	1.000000
rad58	1.02415e-27	1.000000	1.02446e-27	1.000000
PAH1+H	2.23671e-28	1.000000	2.23740e-28	1.000000
rad65	2.00231e-28	1.000000	2.00293e-28	1.000000
rad34	1.06744e-29	1.000000	1.06777e-29	1.000000
rad42	4.44131e-32	1.000000	4.44269e-32	1.000000
rad41	7.74433e-33	1.000000	7.74674e-33	1.000000
rad47	2.02044e-41	1.000000	2.02107e-41	1.000000

0.100000000E-06 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.98936e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999610	0.999610	0.999999	0.999999
Benzyl+C2H2	0.000389083	0.999999	0.00000	0.999999
rad6	7.65585e-07	1.000000	7.65883e-07	1.000000
PhCCH+CH3	2.39579e-08	1.000000	2.39673e-08	1.000000
PhCHCCH2+H	1.98184e-08	1.000000	1.98261e-08	1.000000
PhCCCH3+H	9.06840e-09	1.000000	9.07193e-09	1.000000
rad30	6.94254e-09	1.000000	6.94524e-09	1.000000
PAH9+H	9.01164e-10	1.000000	9.01514e-10	1.000000
rad35	6.63660e-10	1.000000	6.63918e-10	1.000000
rad15	6.22130e-10	1.000000	6.22373e-10	1.000000
rad28	5.00240e-10	1.000000	5.00435e-10	1.000000
rad2	3.32906e-10	1.000000	3.33036e-10	1.000000
rad38	1.63045e-10	1.000000	1.63109e-10	1.000000
Ph+MeAc	9.70274e-11	1.000000	9.70652e-11	1.000000
rad26	6.26392e-11	1.000000	6.26636e-11	1.000000
rad7	5.72942e-11	1.000000	5.73165e-11	1.000000
rad8	5.21984e-11	1.000000	5.22187e-11	1.000000
rad1	2.35016e-11	1.000000	2.35107e-11	1.000000
rad9	2.04525e-11	1.000000	2.04605e-11	1.000000
rad10	1.74726e-11	1.000000	1.74794e-11	1.000000

rad11	1.41158e-11	1.000000	1.41213e-11	1.000000
PAH7+H	1.20105e-11	1.000000	1.20152e-11	1.000000
Ph+Allene	3.48218e-12	1.000000	3.48353e-12	1.000000
rad3	2.36676e-12	1.000000	2.36768e-12	1.000000
rad39	1.43284e-12	1.000000	1.43340e-12	1.000000
rad12	1.32695e-12	1.000000	1.32747e-12	1.000000
rad4	1.23354e-12	1.000000	1.23402e-12	1.000000
rad13	3.26338e-13	1.000000	3.26465e-13	1.000000
rad46	2.49644e-13	1.000000	2.49742e-13	1.000000
PhCH2CCH+H	2.02784e-14	1.000000	2.02863e-14	1.000000
rad60syn	8.95436e-15	1.000000	8.95784e-15	1.000000
rad37	3.30809e-15	1.000000	3.30938e-15	1.000000
rad60anti	2.25867e-15	1.000000	2.25955e-15	1.000000
rad33	6.39442e-16	1.000000	6.39691e-16	1.000000
rad27	4.59639e-16	1.000000	4.59818e-16	1.000000
rad25	1.03426e-16	1.000000	1.03466e-16	1.000000
rad14	8.58558e-17	1.000000	8.58892e-17	1.000000
rad5	4.20019e-17	1.000000	4.20183e-17	1.000000
rad20	2.15877e-17	1.000000	2.15961e-17	1.000000
rad21	1.38507e-17	1.000000	1.38561e-17	1.000000
PAH3+H	7.78863e-18	1.000000	7.79166e-18	1.000000
rad59	2.61499e-18	1.000000	2.61601e-18	1.000000
rad50	1.57823e-19	1.000000	1.57885e-19	1.000000
rad18	9.34368e-20	1.000000	9.34732e-20	1.000000
rad23	6.97568e-20	1.000000	6.97839e-20	1.000000
rad31	2.58576e-20	1.000000	2.58677e-20	1.000000
rad19syn	7.93175e-21	1.000000	7.93483e-21	1.000000
rad22	5.80573e-21	1.000000	5.80799e-21	1.000000
rad45	1.43528e-21	1.000000	1.43583e-21	1.000000
rad54	1.28744e-22	1.000000	1.28794e-22	1.000000
rad36	9.08733e-23	1.000000	9.09087e-23	1.000000
PAH10+CH3	8.76232e-23	1.000000	8.76573e-23	1.000000
rad43	2.10010e-23	1.000000	2.10091e-23	1.000000
rad52	1.76521e-23	1.000000	1.76590e-23	1.000000
rad62	4.48334e-24	1.000000	4.48508e-24	1.000000
rad24	2.70600e-24	1.000000	2.70706e-24	1.000000
rad51	2.84575e-25	1.000000	2.84686e-25	1.000000
PhcycC3H3_A+H	1.83497e-25	1.000000	1.83568e-25	1.000000
rad70	1.30436e-25	1.000000	1.30487e-25	1.000000
rad55	5.31871e-26	1.000000	5.32078e-26	1.000000
rad58	1.13976e-26	1.000000	1.14020e-26	1.000000
PAH1+H	3.49023e-27	1.000000	3.49159e-27	1.000000
rad65	1.89688e-27	1.000000	1.89762e-27	1.000000
rad34	2.02063e-28	1.000000	2.02142e-28	1.000000
rad42	2.62674e-30	1.000000	2.62776e-30	1.000000
rad41	7.56115e-31	1.000000	7.56410e-31	1.000000
rad47	1.87587e-40	1.000000	1.87660e-40	1.000000

0.100000000E-06 Pa, 250.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17706e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999515	0.999515	0.999999	0.999999
Benzyl+C2H2	0.000484700	1.000000	0.000000	0.999999
rad6	6.14362e-07	1.000000	6.14660e-07	1.000000
PhCCH+CH3	4.32808e-08	1.000000	4.33018e-08	1.000000
PhCHCCH2+H	3.40270e-08	1.000000	3.40435e-08	1.000000
PhCCCH3+H	1.63437e-08	1.000000	1.63516e-08	1.000000
rad30	9.79759e-09	1.000000	9.80234e-09	1.000000
PAH9+H	1.23218e-09	1.000000	1.23277e-09	1.000000
rad15	9.65236e-10	1.000000	9.65704e-10	1.000000
rad35	8.73117e-10	1.000000	8.73541e-10	1.000000
rad28	5.02768e-10	1.000000	5.03012e-10	1.000000
rad2	2.69037e-10	1.000000	2.69167e-10	1.000000
rad38	2.34143e-10	1.000000	2.34256e-10	1.000000
Ph+MeAc	2.31160e-10	1.000000	2.31272e-10	1.000000
rad8	1.03151e-10	1.000000	1.03201e-10	1.000000
rad26	6.38157e-11	1.000000	6.38466e-11	1.000000
rad7	4.60951e-11	1.000000	4.61174e-11	1.000000
rad9	4.38982e-11	1.000000	4.39195e-11	1.000000
PAH7+H	2.61740e-11	1.000000	2.61867e-11	1.000000
rad1	1.92129e-11	1.000000	1.92222e-11	1.000000
rad10	1.44177e-11	1.000000	1.44247e-11	1.000000
rad11	1.13643e-11	1.000000	1.13698e-11	1.000000
Ph+Allene	9.36010e-12	1.000000	9.36464e-12	1.000000
rad39	3.36900e-12	1.000000	3.37063e-12	1.000000

rad12	2.88793e-12	1.00000	2.88934e-12	1.000000
rad3	1.94869e-12	1.00000	1.94963e-12	1.000000
rad4	1.01903e-12	1.00000	1.01952e-12	1.000000
rad46	4.68609e-13	1.00000	4.68837e-13	1.000000
rad13	2.63066e-13	1.00000	2.63193e-13	1.000000
PhCH2CCH+H	6.80659e-14	1.00000	6.80989e-14	1.000000
rad60syn	2.22273e-14	1.00000	2.22381e-14	1.000000
rad37	1.01211e-14	1.00000	1.01260e-14	1.000000
rad60anti	5.89685e-15	1.00000	5.89971e-15	1.000000
rad33	5.17237e-16	1.00000	5.17488e-16	1.000000
rad27	4.44667e-16	1.00000	4.44883e-16	1.000000
rad5	1.45717e-16	1.00000	1.45788e-16	1.000000
rad25	1.14451e-16	1.00000	1.14507e-16	1.000000
rad14	9.87261e-17	1.00000	9.87740e-17	1.000000
PAH3+H	2.94243e-17	1.00000	2.94386e-17	1.000000
rad20	1.96942e-17	1.00000	1.97037e-17	1.000000
rad21	1.26708e-17	1.00000	1.26769e-17	1.000000
rad59	9.64551e-18	1.00000	9.65019e-18	1.000000
rad50	5.93639e-19	1.00000	5.93927e-19	1.000000
rad23	1.04154e-19	1.00000	1.04205e-19	1.000000
rad18	8.40491e-20	1.00000	8.40899e-20	1.000000
rad19syn	4.22763e-20	1.00000	4.22968e-20	1.000000
rad31	2.45985e-20	1.00000	2.46105e-20	1.000000
rad22	5.15773e-21	1.00000	5.16023e-21	1.000000
rad45	2.37065e-21	1.00000	2.37180e-21	1.000000
rad54	7.86767e-22	1.00000	7.87148e-22	1.000000
PAH10+CH3	5.33110e-22	1.00000	5.33368e-22	1.000000
rad36	1.50771e-22	1.00000	1.50844e-22	1.000000
rad43	1.27026e-22	1.00000	1.27087e-22	1.000000
rad52	9.31755e-23	1.00000	9.32207e-23	1.000000
rad62	2.94966e-23	1.00000	2.95109e-23	1.000000
rad24	2.81097e-24	1.00000	2.81233e-24	1.000000
rad51	1.93290e-24	1.00000	1.93384e-24	1.000000
PhcycC3H3_A+H	1.51485e-24	1.00000	1.51559e-24	1.000000
rad70	1.03242e-24	1.00000	1.03293e-24	1.000000
rad55	4.27163e-25	1.00000	4.27370e-25	1.000000
rad58	9.52951e-26	1.00000	9.53413e-26	1.000000
PAH1+H	3.26070e-26	1.00000	3.26228e-26	1.000000
rad65	1.44854e-26	1.00000	1.44924e-26	1.000000
rad34	1.95407e-27	1.00000	1.95502e-27	1.000000
rad42	2.76646e-29	1.00000	2.76780e-29	1.000000
rad41	8.02597e-30	1.00000	8.02987e-30	1.000000
rad47	1.43631e-39	1.00000	1.43700e-39	1.000000

0.100000000E-06 Pa, 260.000000 K

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

Total | 3.19452e-24 (1.00) | 3.19260e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999398	0.999398	0.999999	0.999999
Benzyl+C2H2	0.000600829	0.999999	0.00000	0.999999
rad6	4.92515e-07	0.999999	4.92811e-07	0.999999
PhCCH+CH3	7.52882e-08	0.999999	7.53334e-08	1.000000
PhCHCCH2+H	5.65156e-08	0.999999	5.65495e-08	1.000000
PhCCCH3+H	2.83192e-08	0.999999	2.83362e-08	1.000000
rad30	1.36157e-08	0.999999	1.36239e-08	1.000000
PAH9+H	1.67445e-09	0.999999	1.67545e-09	1.000000
rad15	1.46180e-09	0.999999	1.46268e-09	1.000000
rad35	1.14380e-09	0.999999	1.14448e-09	1.000000
Ph+MeAc	5.16634e-10	1.000000	5.16944e-10	1.000000
rad28	4.95758e-10	1.000000	4.96056e-10	1.000000
rad38	3.32693e-10	1.000000	3.32893e-10	1.000000
rad2	2.26468e-10	1.000000	2.26604e-10	1.000000
rad8	1.94409e-10	1.000000	1.94526e-10	1.000000
rad9	8.92938e-11	1.000000	8.93475e-11	1.000000
rad26	6.37266e-11	1.000000	6.37649e-11	1.000000
PAH7+H	5.40193e-11	1.000000	5.40518e-11	1.000000
rad7	3.70508e-11	1.000000	3.70731e-11	1.000000
Ph+Allene	2.34474e-11	1.000000	2.34615e-11	1.000000
rad1	1.63752e-11	1.000000	1.63850e-11	1.000000
rad10	1.18994e-11	1.000000	1.19066e-11	1.000000
rad11	9.14096e-12	1.000000	9.14645e-12	1.000000
rad39	7.45059e-12	1.000000	7.45507e-12	1.000000
rad12	5.93111e-12	1.000000	5.93467e-12	1.000000
rad3	1.63246e-12	1.000000	1.63345e-12	1.000000
rad4	8.56739e-13	1.000000	8.57254e-13	1.000000
rad46	8.49081e-13	1.000000	8.49591e-13	1.000000

rad13	2.11887e-13	1.000000	2.12015e-13	1.000000
PhCH2CCH+H	2.09101e-13	1.000000	2.09226e-13	1.000000
rad60syn	5.16426e-14	1.000000	5.16737e-14	1.000000
rad37	2.82532e-14	1.000000	2.82701e-14	1.000000
rad60anti	1.43406e-14	1.000000	1.43492e-14	1.000000
rad5	4.59357e-16	1.000000	4.59634e-16	1.000000
rad27	4.23771e-16	1.000000	4.24026e-16	1.000000
rad33	4.18153e-16	1.000000	4.18404e-16	1.000000
rad25	1.23426e-16	1.000000	1.23501e-16	1.000000
rad14	1.10290e-16	1.000000	1.10356e-16	1.000000
PAH3+H	1.00724e-16	1.000000	1.00784e-16	1.000000
rad59	3.22623e-17	1.000000	3.22817e-17	1.000000
rad20	1.80041e-17	1.000000	1.80149e-17	1.000000
rad21	1.16178e-17	1.000000	1.16248e-17	1.000000
rad50	2.03113e-18	1.000000	2.03235e-18	1.000000
rad19syn	1.98205e-19	1.000000	1.98324e-19	1.000000
rad23	1.61223e-19	1.000000	1.61320e-19	1.000000
rad18	7.56582e-20	1.000000	7.57036e-20	1.000000
rad31	2.36293e-20	1.000000	2.36435e-20	1.000000
rad22	4.58187e-21	1.000000	4.58462e-21	1.000000
rad54	4.18282e-21	1.000000	4.18533e-21	1.000000
rad45	4.17021e-21	1.000000	4.17271e-21	1.000000
PAH10+CH3	2.81839e-21	1.000000	2.82009e-21	1.000000
rad43	6.67188e-22	1.000000	6.67589e-22	1.000000
rad52	4.34411e-22	1.000000	4.34673e-22	1.000000
rad36	2.66566e-22	1.000000	2.66726e-22	1.000000
rad62	1.67395e-22	1.000000	1.67496e-22	1.000000
rad51	1.13377e-23	1.000000	1.13445e-23	1.000000
PhcycC3H3_A+H	1.04989e-23	1.000000	1.05052e-23	1.000000
rad70	6.90237e-24	1.000000	6.90652e-24	1.000000
rad24	2.93989e-24	1.000000	2.94166e-24	1.000000
rad55	2.89213e-24	1.000000	2.89387e-24	1.000000
rad58	6.67420e-25	1.000000	6.67822e-25	1.000000
PAH1+H	2.48959e-25	1.000000	2.49109e-25	1.000000
rad65	9.40613e-26	1.000000	9.41178e-26	1.000000
rad34	1.53045e-26	1.000000	1.53137e-26	1.000000
rad42	2.29633e-28	1.000000	2.29771e-28	1.000000
rad41	6.71432e-29	1.000000	6.71835e-29	1.000000
rad47	9.26851e-39	1.000000	9.27408e-39	1.000000

0.100000000E-06 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.03545e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999258	0.999258	0.999999	0.999999
Benzyl+C2H2	0.000741077	0.999999	0.00000	0.999999
rad6	3.94443e-07	0.999999	3.94735e-07	0.999999
PhCCH+CH3	1.26577e-07	1.000000	1.26671e-07	1.000000
PhCHCCH2+H	9.10925e-08	1.000000	9.11600e-08	1.000000
PhCCCH3+H	4.73623e-08	1.000000	4.73975e-08	1.000000
rad30	1.86595e-08	1.000000	1.86734e-08	1.000000
PAH9+H	2.26149e-09	1.000000	2.26317e-09	1.000000
rad15	2.16654e-09	1.000000	2.16815e-09	1.000000
rad35	1.49171e-09	1.000000	1.49282e-09	1.000000
Ph+MeAc	1.09057e-09	1.000000	1.09138e-09	1.000000
rad28	4.80576e-10	1.000000	4.80932e-10	1.000000
rad38	4.68008e-10	1.000000	4.68355e-10	1.000000
rad8	3.51251e-10	1.000000	3.51511e-10	1.000000
rad2	1.84510e-10	1.000000	1.84647e-10	1.000000
rad9	1.73159e-10	1.000000	1.73287e-10	1.000000
PAH7+H	1.06233e-10	1.000000	1.06312e-10	1.000000
rad26	6.25097e-11	1.000000	6.25561e-11	1.000000
Ph+Allene	5.51671e-11	1.000000	5.52081e-11	1.000000
rad7	2.97541e-11	1.000000	2.97762e-11	1.000000
rad39	1.56030e-11	1.000000	1.56146e-11	1.000000
rad1	1.35207e-11	1.000000	1.35307e-11	1.000000
rad12	1.15676e-11	1.000000	1.15762e-11	1.000000
rad10	9.74777e-12	1.000000	9.75500e-12	1.000000
rad11	7.34620e-12	1.000000	7.35165e-12	1.000000
rad46	1.49078e-12	1.000000	1.49189e-12	1.000000
rad3	1.34234e-12	1.000000	1.34334e-12	1.000000
rad4	7.07219e-13	1.000000	7.07744e-13	1.000000
PhCH2CCH+H	5.93697e-13	1.000000	5.94137e-13	1.000000
rad13	1.70529e-13	1.000000	1.70655e-13	1.000000
rad60syn	1.13161e-13	1.000000	1.13245e-13	1.000000
rad37	7.27155e-14	1.000000	7.27694e-14	1.000000

rad60anti	3.27522e-14	1.000000	3.27765e-14	1.000000
rad5	1.32965e-15	1.000000	1.33063e-15	1.000000
rad27	3.98477e-16	1.000000	3.98773e-16	1.000000
rad33	3.37876e-16	1.000000	3.38127e-16	1.000000
PAH3+H	3.15912e-16	1.000000	3.16146e-16	1.000000
rad25	1.30079e-16	1.000000	1.30176e-16	1.000000
rad14	1.20074e-16	1.000000	1.20163e-16	1.000000
rad59	9.89462e-17	1.000000	9.90196e-17	1.000000
rad20	1.64953e-17	1.000000	1.65075e-17	1.000000
rad21	1.06781e-17	1.000000	1.06860e-17	1.000000
rad50	6.38912e-18	1.000000	6.39386e-18	1.000000
rad19syn	8.29179e-19	1.000000	8.29794e-19	1.000000
rad23	2.57887e-19	1.000000	2.58078e-19	1.000000
rad18	6.81563e-20	1.000000	6.82068e-20	1.000000
rad31	2.29308e-20	1.000000	2.29478e-20	1.000000
rad54	1.96548e-20	1.000000	1.96693e-20	1.000000
PAH10+CH3	1.31523e-20	1.000000	1.31621e-20	1.000000
rad45	7.00045e-21	1.000000	7.00564e-21	1.000000
rad22	4.07024e-21	1.000000	4.07325e-21	1.000000
rad43	3.09130e-21	1.000000	3.09359e-21	1.000000
rad52	1.81421e-21	1.000000	1.81555e-21	1.000000
rad62	8.33487e-22	1.000000	8.34105e-22	1.000000
rad36	4.50028e-22	1.000000	4.50361e-22	1.000000
PhcycC3H3_A+H	6.28440e-23	1.000000	6.28906e-23	1.000000
rad51	5.84528e-23	1.000000	5.84962e-23	1.000000
rad70	3.99452e-23	1.000000	3.99748e-23	1.000000
rad55	1.69373e-23	1.000000	1.69499e-23	1.000000
rad58	4.03354e-24	1.000000	4.03653e-24	1.000000
rad24	3.09656e-24	1.000000	3.09886e-24	1.000000
PAH1+H	1.62733e-24	1.000000	1.62853e-24	1.000000
rad65	5.31208e-25	1.000000	5.31602e-25	1.000000
rad34	1.02480e-25	1.000000	1.02556e-25	1.000000
rad42	1.63125e-27	1.000000	1.63246e-27	1.000000
rad41	4.81362e-28	1.000000	4.81719e-28	1.000000
rad47	5.14497e-38	1.000000	5.14878e-38	1.000000

0.100000000E-06 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89185e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999090	0.999090	0.999999	0.999999
Benzyl+C2H2	0.000909507	1.000000	0.000000	0.999999
rad6	3.15595e-07	1.000000	3.15883e-07	0.999999
PhCCH+CH3	2.06323e-07	1.000000	2.06510e-07	1.000000
PhCHCCH2+H	1.42870e-07	1.000000	1.43000e-07	1.000000
PhCCCH3+H	7.67122e-08	1.000000	7.67820e-08	1.000000
rad30	2.52475e-08	1.000000	2.52705e-08	1.000000
rad15	3.14926e-09	1.000000	3.15212e-09	1.000000
PAH9+H	3.03558e-09	1.000000	3.03835e-09	1.000000
Ph+MeAc	2.18702e-09	1.000000	2.18901e-09	1.000000
rad35	1.93648e-09	1.000000	1.93824e-09	1.000000
rad38	6.52109e-10	1.000000	6.52702e-10	1.000000
rad8	6.11055e-10	1.000000	6.11611e-10	1.000000
rad28	4.58776e-10	1.000000	4.59193e-10	1.000000
rad9	3.21746e-10	1.000000	3.22039e-10	1.000000
PAH7+H	2.00109e-10	1.000000	2.00291e-10	1.000000
rad2	1.49710e-10	1.000000	1.49846e-10	1.000000
Ph+Allene	1.22724e-10	1.000000	1.22835e-10	1.000000
rad26	6.03399e-11	1.000000	6.03948e-11	1.000000
rad39	3.11219e-11	1.000000	3.11502e-11	1.000000
rad7	2.38735e-11	1.000000	2.38952e-11	1.000000
rad12	2.15400e-11	1.000000	2.15596e-11	1.000000
rad1	1.11287e-11	1.000000	1.11389e-11	1.000000
rad10	8.09040e-12	1.000000	8.09777e-12	1.000000
rad11	5.89889e-12	1.000000	5.90426e-12	1.000000
rad46	2.54457e-12	1.000000	2.54689e-12	1.000000
PhCH2CCH+H	1.57107e-12	1.000000	1.57250e-12	1.000000
rad3	1.13310e-12	1.000000	1.13413e-12	1.000000
rad4	5.99480e-13	1.000000	6.00025e-13	1.000000
rad60syn	2.35373e-13	1.000000	2.35588e-13	1.000000
rad37	1.74095e-13	1.000000	1.74253e-13	1.000000
rad13	1.37138e-13	1.000000	1.37263e-13	1.000000
rad60anti	7.07396e-14	1.000000	7.08040e-14	1.000000
rad5	3.56588e-15	1.000000	3.56913e-15	1.000000
PAH3+H	9.16507e-16	1.000000	9.17341e-16	1.000000
rad27	3.70222e-16	1.000000	3.70559e-16	1.000000

rad59	2.80900e-16	1.00000	2.81156e-16	1.000000
rad33	2.72890e-16	1.00000	2.73138e-16	1.000000
rad25	1.34298e-16	1.00000	1.34420e-16	1.000000
rad14	1.27744e-16	1.00000	1.27860e-16	1.000000
rad50	1.86453e-17	1.00000	1.86623e-17	1.000000
rad20	1.51483e-17	1.00000	1.51621e-17	1.000000
rad21	9.83966e-18	1.00000	9.84862e-18	1.000000
rad19syn	3.13292e-18	1.00000	3.13577e-18	1.000000
rad23	4.25168e-19	1.00000	4.25555e-19	1.000000
rad54	8.26763e-20	1.00000	8.27515e-20	1.000000
rad18	6.14488e-20	1.00000	6.15048e-20	1.000000
PAH10+CH3	5.48809e-20	1.00000	5.49309e-20	1.000000
rad31	2.24898e-20	1.00000	2.25103e-20	1.000000
rad45	1.29627e-20	1.00000	1.29745e-20	1.000000
rad43	1.28005e-20	1.00000	1.28122e-20	1.000000
rad52	6.86644e-21	1.00000	6.87269e-21	1.000000
rad62	3.68998e-21	1.00000	3.69334e-21	1.000000
rad22	3.61585e-21	1.00000	3.61914e-21	1.000000
rad36	8.38525e-22	1.00000	8.39288e-22	1.000000
PhcycC3H3_A+H	3.28881e-22	1.00000	3.29180e-22	1.000000
rad51	2.68189e-22	1.00000	2.68433e-22	1.000000
rad70	2.02731e-22	1.00000	2.02915e-22	1.000000
rad55	8.69007e-23	1.00000	8.69798e-23	1.000000
rad58	2.12890e-23	1.00000	2.13084e-23	1.000000
PAH1+H	9.19440e-24	1.00000	9.20277e-24	1.000000
rad24	3.28580e-24	1.00000	3.28879e-24	1.000000
rad65	2.64204e-24	1.00000	2.64445e-24	1.000000
rad34	5.91306e-25	1.00000	5.91844e-25	1.000000
rad42	9.90724e-27	1.00000	9.91626e-27	1.000000
rad41	2.94681e-27	1.00000	2.94949e-27	1.000000
rad47	2.49702e-37	1.00000	2.49929e-37	1.000000

0.100000000E-06 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.19549e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998888	0.998888	0.999999	0.999999
Benzyl+C2H2	0.00111066	0.999999	0.00000	0.999999
PhCCH+CH3	3.26952e-07	0.999999	3.27315e-07	0.999999
rad6	2.52275e-07	0.999999	2.52555e-07	1.000000
PhCHCCH2+H	2.18549e-07	0.999999	2.18792e-07	1.000000
PhCCCH3+H	1.20677e-07	1.000000	1.20811e-07	1.000000
rad30	3.37617e-08	1.000000	3.37992e-08	1.000000
rad15	4.49781e-09	1.000000	4.50281e-09	1.000000
Ph+MeAc	4.18743e-09	1.000000	4.19209e-09	1.000000
PAH9+H	4.04965e-09	1.000000	4.05415e-09	1.000000
rad35	2.50193e-09	1.000000	2.50471e-09	1.000000
rad8	1.02739e-09	1.000000	1.02853e-09	1.000000
rad38	9.00378e-10	1.000000	9.01380e-10	1.000000
rad9	5.75320e-10	1.000000	5.75960e-10	1.000000
rad28	4.31960e-10	1.000000	4.32441e-10	1.000000
PAH7+H	3.62658e-10	1.000000	3.63061e-10	1.000000
Ph+Allene	2.59612e-10	1.000000	2.59900e-10	1.000000
rad2	1.29077e-10	1.000000	1.29220e-10	1.000000
rad39	5.94184e-11	1.000000	5.94845e-11	1.000000
rad26	5.74092e-11	1.000000	5.74731e-11	1.000000
rad12	3.84719e-11	1.000000	3.85146e-11	1.000000
rad7	1.91390e-11	1.000000	1.91603e-11	1.000000
rad1	9.74300e-12	1.000000	9.75383e-12	1.000000
rad10	6.81893e-12	1.000000	6.82651e-12	1.000000
rad11	4.73295e-12	1.000000	4.73821e-12	1.000000
rad46	4.23385e-12	1.000000	4.23856e-12	1.000000
PhCH2CCH+H	3.90283e-12	1.000000	3.90717e-12	1.000000
rad3	9.44025e-13	1.000000	9.45074e-13	1.000000
rad4	5.01690e-13	1.000000	5.02248e-13	1.000000
rad60syn	4.67307e-13	1.000000	4.67826e-13	1.000000
rad37	3.90734e-13	1.000000	3.91168e-13	1.000000
rad60anti	1.45354e-13	1.000000	1.45516e-13	1.000000
rad13	1.10207e-13	1.000000	1.10330e-13	1.000000
rad5	8.92902e-15	1.000000	8.93895e-15	1.000000
PAH3+H	2.47956e-15	1.000000	2.48232e-15	1.000000
rad59	7.44181e-16	1.000000	7.45009e-16	1.000000
rad27	3.40279e-16	1.000000	3.40657e-16	1.000000
rad33	2.20322e-16	1.000000	2.20567e-16	1.000000
rad25	1.36114e-16	1.000000	1.36265e-16	1.000000
rad14	1.33117e-16	1.000000	1.33265e-16	1.000000

rad50	5.08734e-17	1.000000	5.09300e-17	1.000000
rad20	1.39462e-17	1.000000	1.39617e-17	1.000000
rad19syn	1.08024e-17	1.000000	1.08144e-17	1.000000
rad21	9.09197e-18	1.000000	9.10208e-18	1.000000
rad23	7.20268e-19	1.000000	7.21069e-19	1.000000
rad54	3.14766e-19	1.000000	3.15116e-19	1.000000
PAH10+CH3	2.07062e-19	1.000000	2.07292e-19	1.000000
rad18	5.54520e-20	1.000000	5.55137e-20	1.000000
rad43	4.79070e-20	1.000000	4.79603e-20	1.000000
rad45	2.39484e-20	1.000000	2.39750e-20	1.000000
rad52	2.37882e-20	1.000000	2.38146e-20	1.000000
rad31	2.22986e-20	1.000000	2.23234e-20	1.000000
rad62	1.46949e-20	1.000000	1.47112e-20	1.000000
rad22	3.21254e-21	1.000000	3.21612e-21	1.000000
rad36	1.55990e-21	1.000000	1.56163e-21	1.000000
PhcycC3H3_A+H	1.52452e-21	1.000000	1.52622e-21	1.000000
rad51	1.10724e-21	1.000000	1.10847e-21	1.000000
rad70	9.13951e-22	1.000000	9.14968e-22	1.000000
rad55	3.95677e-22	1.000000	3.96117e-22	1.000000
rad58	9.94323e-23	1.000000	9.95428e-23	1.000000
PAH1+H	4.55733e-23	1.000000	4.56240e-23	1.000000
rad65	1.17141e-23	1.000000	1.17271e-23	1.000000
rad24	3.51369e-24	1.000000	3.51759e-24	1.000000
rad34	2.98552e-24	1.000000	2.98884e-24	1.000000
rad42	5.23352e-26	1.000000	5.23933e-26	1.000000
rad41	1.56770e-26	1.000000	1.56944e-26	1.000000
rad47	1.07468e-36	1.000000	1.07587e-36	1.000000

0.100000000E-06 Pa, 300.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17544e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998337	0.998337	0.999999	0.999999
Benzyl+C2H2	0.00166158	0.999999	0.00000	0.999999
PhCCH+CH3	4.36745e-07	0.999999	4.37472e-07	0.999999
rad6	3.75945e-07	0.999999	3.76570e-07	1.000000
PhCHCCH2+H	2.66159e-07	1.000000	2.66602e-07	1.000000
PhCCCH3+H	1.55716e-07	1.000000	1.55975e-07	1.000000
rad30	3.74940e-08	1.000000	3.75564e-08	1.000000
Ph+MeAc	6.10069e-09	1.000000	6.11085e-09	1.000000
PAH9+H	5.54882e-09	1.000000	5.55806e-09	1.000000
rad35	2.76931e-09	1.000000	2.77392e-09	1.000000
rad38	1.02444e-09	1.000000	1.02615e-09	1.000000
PAH7+H	6.45714e-10	1.000000	6.46789e-10	1.000000
rad28	4.04902e-10	1.000000	4.05576e-10	1.000000
Ph+Allene	2.52011e-10	1.000000	2.52431e-10	1.000000
rad2	1.91987e-10	1.000000	1.92307e-10	1.000000
rad39	8.64614e-11	1.000000	8.66053e-11	1.000000
rad26	4.04141e-11	1.000000	4.04814e-11	1.000000
rad7	3.34336e-11	1.000000	3.34892e-11	1.000000
rad19anti	1.63372e-11	1.000000	1.63644e-11	1.000000
rad1	1.44660e-11	1.000000	1.44901e-11	1.000000
rad10	1.22781e-11	1.000000	1.22985e-11	1.000000
rad11	8.04899e-12	1.000000	8.06239e-12	1.000000
PhCH2CCH+H	7.51671e-12	1.000000	7.52922e-12	1.000000
rad46	5.66748e-12	1.000000	5.67691e-12	1.000000
rad3	1.40579e-12	1.000000	1.40813e-12	1.000000
rad60syn	7.07965e-13	1.000000	7.09144e-13	1.000000
rad4	6.99101e-13	1.000000	7.00264e-13	1.000000
rad37	6.05564e-13	1.000000	6.06572e-13	1.000000
rad60anti	2.13244e-13	1.000000	2.13599e-13	1.000000
rad13	1.92493e-13	1.000000	1.92813e-13	1.000000
PAH3+H	6.24906e-15	1.000000	6.25946e-15	1.000000
rad23	1.58597e-15	1.000000	1.58861e-15	1.000000
rad59	1.44646e-15	1.000000	1.44887e-15	1.000000
rad20	7.81392e-16	1.000000	7.82693e-16	1.000000
rad21	4.99595e-16	1.000000	5.00427e-16	1.000000
rad33	4.91764e-16	1.000000	4.92582e-16	1.000000
rad27	2.81294e-16	1.000000	2.81763e-16	1.000000
rad45	1.22376e-16	1.000000	1.22579e-16	1.000000
rad14	1.11434e-16	1.000000	1.11619e-16	1.000000
rad50	1.03024e-16	1.000000	1.03196e-16	1.000000
rad25	9.88104e-17	1.000000	9.89748e-17	1.000000
rad19syn	2.69219e-17	1.000000	2.69667e-17	1.000000
rad18	1.88482e-17	1.000000	1.88795e-17	1.000000
rad22	1.54334e-17	1.000000	1.54591e-17	1.000000

rad36	4.17065e-18	1.000000	4.17759e-18	1.00000
rad67	1.20173e-18	1.000000	1.20373e-18	1.00000
rad54	8.62469e-19	1.000000	8.63904e-19	1.00000
PAH10+CH3	5.71972e-19	1.000000	5.72924e-19	1.00000
rad43	1.19051e-19	1.000000	1.19249e-19	1.00000
rad52	6.28747e-20	1.000000	6.29793e-20	1.00000
rad31	4.09473e-20	1.000000	4.10154e-20	1.00000
rad62	4.05053e-20	1.000000	4.05727e-20	1.00000
PhcycC3H3_A+H	7.38944e-21	1.000000	7.40174e-21	1.00000
rad51	3.46093e-21	1.000000	3.46669e-21	1.00000
rad70	3.35423e-21	1.000000	3.35981e-21	1.00000
rad24	1.73491e-21	1.000000	1.73780e-21	1.00000
rad55	1.33538e-21	1.000000	1.33760e-21	1.00000
rad58	3.59869e-22	1.000000	3.60468e-22	1.00000
PAH1+H	2.76409e-22	1.000000	2.76869e-22	1.00000
rad65	4.20416e-23	1.000000	4.21115e-23	1.00000
rad34	1.85425e-23	1.000000	1.85734e-23	1.00000
rad9	1.46614e-24	1.000000	1.46859e-24	1.00000
rad42	4.75218e-25	1.000000	4.76009e-25	1.00000
rad41	1.44595e-25	1.000000	1.44836e-25	1.00000
rad53	6.41325e-27	1.000000	6.42392e-27	1.00000
rad64	1.37052e-27	1.000000	1.37280e-27	1.00000
rad15	8.60949e-28	1.000000	8.62382e-28	1.00000
rad56	9.20940e-30	1.000000	9.22472e-30	1.00000
rad5	1.63075e-30	1.000000	1.63346e-30	1.00000
rad61	1.39478e-30	1.000000	1.39710e-30	1.00000
rad68syn	1.01950e-30	1.000000	1.02119e-30	1.00000
rad12	8.87202e-31	1.000000	8.88679e-31	1.00000
rad68anti	7.27727e-31	1.000000	7.28938e-31	1.00000
rad73	2.19681e-33	1.000000	2.20047e-33	1.00000
rad40syn	2.30555e-34	1.000000	2.30938e-34	1.00000
rad40anti	7.00569e-35	1.000000	7.01735e-35	1.00000
rad47	2.39996e-36	1.000000	2.40395e-36	1.00000
rad71	2.29535e-38	1.000000	2.29917e-38	1.00000
PAH8+H	7.77967e-39	1.000000	7.79262e-39	1.00000
rad72	4.05077e-44	1.000000	4.05751e-44	1.00000
rad8	2.66072e-45	1.000000	2.66515e-45	1.00000

0.100000000E-06 Pa, 310.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.44453e-22 (1.00)	2.44054e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998366	0.998366	0.999998	0.999998
Benzyl+C2H2	0.00163189	0.999998	0.00000	0.999998
PhCCH+CH3	7.61255e-07	0.999999	7.62500e-07	0.999999
PhCHCCH2+H	4.78158e-07	0.999999	4.78940e-07	0.999999
PhCCH3+H	2.76241e-07	0.999999	2.76693e-07	1.000000
rad6	1.60781e-07	1.000000	1.61044e-07	1.000000
rad30	5.84662e-08	1.000000	5.85618e-08	1.000000
Ph+MeAc	1.35869e-08	1.000000	1.36091e-08	1.000000
rad15	8.75423e-09	1.000000	8.76854e-09	1.000000
PAH9+H	7.07588e-09	1.000000	7.08744e-09	1.000000
rad35	4.11579e-09	1.000000	4.12252e-09	1.000000
rad8	2.65486e-09	1.000000	2.65920e-09	1.000000
rad38	1.67249e-09	1.000000	1.67522e-09	1.000000
rad9	1.66328e-09	1.000000	1.66600e-09	1.000000
PAH7+H	1.07654e-09	1.000000	1.07830e-09	1.000000
Ph+Allene	1.01825e-09	1.000000	1.01992e-09	1.000000
rad28	3.69298e-10	1.000000	3.69902e-10	1.000000
rad39	1.93121e-10	1.000000	1.93436e-10	1.000000
rad12	1.09975e-10	1.000000	1.10155e-10	1.000000
rad2	8.94971e-11	1.000000	8.96434e-11	1.000000
rad26	5.00310e-11	1.000000	5.01128e-11	1.000000
PhCH2CCH+H	2.04109e-11	1.000000	2.04443e-11	1.000000
rad7	1.22723e-11	1.000000	1.22924e-11	1.000000
rad46	1.09555e-11	1.000000	1.09734e-11	1.000000
rad1	6.98748e-12	1.000000	6.99891e-12	1.000000
rad10	4.66781e-12	1.000000	4.67544e-12	1.000000
rad11	3.04024e-12	1.000000	3.04521e-12	1.000000
rad37	1.66365e-12	1.000000	1.66637e-12	1.000000
rad60syn	1.63169e-12	1.000000	1.63436e-12	1.000000
rad3	6.52702e-13	1.000000	6.53769e-13	1.000000
rad60anti	5.39033e-13	1.000000	5.39914e-13	1.000000
rad4	3.50318e-13	1.000000	3.50890e-13	1.000000
rad13	7.10359e-14	1.000000	7.11520e-14	1.000000
rad5	4.67693e-14	1.000000	4.68458e-14	1.000000

PAH3+H	1.51219e-14	1.000000	1.51467e-14	1.000000
rad59	4.36101e-15	1.000000	4.36813e-15	1.000000
rad50	3.17584e-16	1.000000	3.18103e-16	1.000000
rad27	2.79474e-16	1.000000	2.79931e-16	1.000000
rad33	1.43513e-16	1.000000	1.43747e-16	1.000000
rad14	1.36923e-16	1.000000	1.37147e-16	1.000000
rad25	1.33224e-16	1.000000	1.33441e-16	1.000000
rad19syn	1.01011e-16	1.000000	1.01176e-16	1.000000
rad20	1.19184e-17	1.000000	1.19379e-17	1.000000
rad21	7.83325e-18	1.000000	7.84606e-18	1.000000
rad54	3.50801e-18	1.000000	3.51374e-18	1.000000
PAH10+CH3	2.26101e-18	1.000000	2.26470e-18	1.000000
rad23	2.21421e-18	1.000000	2.21783e-18	1.000000
rad43	5.14357e-19	1.000000	5.15197e-19	1.000000
rad52	2.26217e-19	1.000000	2.26587e-19	1.000000
rad62	1.76311e-19	1.000000	1.76600e-19	1.000000
rad45	9.46255e-20	1.000000	9.47801e-20	1.000000
rad18	4.53000e-20	1.000000	4.53741e-20	1.000000
PhcycC3H3_A+H	2.37749e-20	1.000000	2.38138e-20	1.000000
rad31	2.26092e-20	1.000000	2.26462e-20	1.000000
rad51	1.42634e-20	1.000000	1.42867e-20	1.000000
rad70	1.35852e-20	1.000000	1.36074e-20	1.000000
rad36	6.26090e-21	1.000000	6.27114e-21	1.000000
rad55	5.98370e-21	1.000000	5.99348e-21	1.000000
rad22	2.53800e-21	1.000000	2.54215e-21	1.000000
rad58	1.57034e-21	1.000000	1.57291e-21	1.000000
PAH1+H	7.93483e-22	1.000000	7.94780e-22	1.000000
rad65	1.69845e-22	1.000000	1.70123e-22	1.000000
rad34	5.35999e-23	1.000000	5.36875e-23	1.000000
rad24	4.11818e-24	1.000000	4.12491e-24	1.000000
rad42	1.01340e-24	1.000000	1.01506e-24	1.000000
rad41	3.07228e-25	1.000000	3.07730e-25	1.000000
rad47	1.45559e-35	1.000000	1.45797e-35	1.000000

0.100000000E-06 Pa, 400.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.60269e-20 (1.00)	3.57081e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.991128	0.991128	0.999976	0.999976
Benzyl+C2H2	0.00884848	0.999976	0.000000	0.999976
PhCCH+CH3	1.23505e-05	0.999989	1.24607e-05	0.999988
PhCHCCH2+H	5.95041e-06	0.999995	6.00353e-06	0.999994
PhCCCH3+H	3.90745e-06	0.999999	3.94233e-06	0.999998
Ph+MeAc	5.34638e-07	0.999999	5.39411e-07	0.999999
rad30	4.02127e-07	1.000000	4.05716e-07	0.999999
PAH9+H	6.80803e-08	1.000000	6.86880e-08	0.999999
Ph+Allene	6.39781e-08	1.000000	6.45492e-08	0.999999
rad6	4.55137e-08	1.000000	4.59200e-08	1.000000
PAH7+H	4.50277e-08	1.000000	4.54297e-08	1.000000
rad35	2.73752e-08	1.000000	2.76196e-08	1.000000
rad38	1.63212e-08	1.000000	1.64670e-08	1.000000
rad39	8.59872e-09	1.000000	8.67548e-09	1.000000
PhCH2CCH+H	4.56270e-09	1.000000	4.60343e-09	1.000000
rad19anti	8.44423e-10	1.000000	8.51962e-10	1.000000
rad46	3.06009e-10	1.000000	3.08741e-10	1.000000
rad37	1.38254e-10	1.000000	1.39488e-10	1.000000
rad28	1.31607e-10	1.000000	1.32782e-10	1.000000
rad60syn	9.47275e-11	1.000000	9.55731e-11	1.000000
rad2	3.90465e-11	1.000000	3.93950e-11	1.000000
rad60anti	3.76555e-11	1.000000	3.79916e-11	1.000000
rad26	1.83160e-11	1.000000	1.84795e-11	1.000000
PAH3+H	6.50520e-12	1.000000	6.56327e-12	1.000000
rad7	4.27316e-12	1.000000	4.31131e-12	1.000000
rad1	3.63437e-12	1.000000	3.66681e-12	1.000000
rad10	2.48566e-12	1.000000	2.50785e-12	1.000000
rad59	1.36005e-12	1.000000	1.37219e-12	1.000000
rad11	1.06613e-12	1.000000	1.07565e-12	1.000000
rad3	3.36896e-13	1.000000	3.39903e-13	1.000000
rad4	1.77417e-13	1.000000	1.79001e-13	1.000000
rad50	1.35994e-13	1.000000	1.37208e-13	1.000000
rad19syn	1.28743e-13	1.000000	1.29892e-13	1.000000
rad23	1.17244e-13	1.000000	1.18290e-13	1.000000
rad13	2.60868e-14	1.000000	2.63196e-14	1.000000
rad45	1.99287e-14	1.000000	2.01066e-14	1.000000
rad54	8.91593e-15	1.000000	8.99553e-15	1.000000
PAH10+CH3	4.84580e-15	1.000000	4.88906e-15	1.000000

rad67	1.67319e-15	1.000000	1.68812e-15	1.000000
rad43	8.69681e-16	1.000000	8.77445e-16	1.000000
rad36	7.68374e-16	1.000000	7.75233e-16	1.000000
rad62	4.86641e-16	1.000000	4.90986e-16	1.000000
rad20	4.10347e-16	1.000000	4.14011e-16	1.000000
rad52	4.03329e-16	1.000000	4.06930e-16	1.000000
PhcycC3H3_A+H	3.21885e-16	1.000000	3.24758e-16	1.000000
rad21	2.86968e-16	1.000000	2.89530e-16	1.000000
rad70	1.20384e-16	1.000000	1.21459e-16	1.000000
rad27	1.02192e-16	1.000000	1.03104e-16	1.000000
rad33	8.25327e-17	1.000000	8.32695e-17	1.000000
rad14	8.22398e-17	1.000000	8.29740e-17	1.000000
rad51	7.61818e-17	1.000000	7.68620e-17	1.000000
rad25	7.37754e-17	1.000000	7.44340e-17	1.000000
rad55	5.04270e-17	1.000000	5.08772e-17	1.000000
PAH1+H	2.44002e-17	1.000000	2.46180e-17	1.000000
rad58	1.79710e-17	1.000000	1.81314e-17	1.000000
rad18	7.76344e-18	1.000000	7.83275e-18	1.000000
rad22	4.97938e-18	1.000000	5.02383e-18	1.000000
rad34	2.03113e-18	1.000000	2.04927e-18	1.000000
rad65	1.53288e-18	1.000000	1.54656e-18	1.000000
rad42	7.25697e-20	1.000000	7.32176e-20	1.000000
rad31	6.45179e-20	1.000000	6.50939e-20	1.000000
rad41	2.24628e-20	1.000000	2.26633e-20	1.000000
rad53	5.65474e-21	1.000000	5.70523e-21	1.000000
rad24	5.54056e-21	1.000000	5.59003e-21	1.000000
rad64	1.81586e-21	1.000000	1.83207e-21	1.000000
rad56	6.61000e-23	1.000000	6.66901e-23	1.000000
rad9	5.29178e-23	1.000000	5.33902e-23	1.000000
rad68syn	8.53497e-24	1.000000	8.61117e-24	1.000000
rad68anti	6.16421e-24	1.000000	6.21924e-24	1.000000
rad61	4.52870e-24	1.000000	4.56913e-24	1.000000
rad73	2.10005e-25	1.000000	2.11880e-25	1.000000
rad40syn	4.85102e-26	1.000000	4.89433e-26	1.000000
rad15	3.22086e-26	1.000000	3.24962e-26	1.000000
PAH8+H	2.50951e-26	1.000000	2.53192e-26	1.000000
rad40anti	1.16029e-26	1.000000	1.17065e-26	1.000000
rad71	6.44920e-27	1.000000	6.50678e-27	1.000000
rad5	2.60549e-28	1.000000	2.62875e-28	1.000000
rad12	1.57228e-28	1.000000	1.58631e-28	1.000000
rad72	1.08944e-31	1.000000	1.09917e-31	1.000000
rad47	5.32422e-32	1.000000	5.37175e-32	1.000000
rad8	1.01991e-41	1.000000	1.02902e-41	1.000000

0.100000000E-06 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.18787e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.968764	0.968764	0.999822	0.999822
Benzyl+C2H2	0.0310635	0.999827	0.00000	0.999822
PhCCH+CH3	9.35930e-05	0.999921	9.65935e-05	0.999919
PhCHCCH2+H	4.00561e-05	0.999961	4.13403e-05	0.999960
PhCCCH3+H	2.54431e-05	0.999987	2.62588e-05	0.999986
Ph+MeAc	7.07386e-06	0.999994	7.30064e-06	0.999993
rad30	2.19669e-06	0.999996	2.26711e-06	0.999996
Ph+Allene	2.05092e-06	0.999998	2.11667e-06	0.999998
PAH7+H	6.80746e-07	0.999999	7.02570e-07	0.999999
PAH9+H	4.84045e-07	0.999999	4.99563e-07	0.999999
PhCH2CCH+H	2.44801e-07	0.999999	2.52649e-07	0.999999
rad35	1.65639e-07	0.999999	1.70949e-07	1.000000
rad39	1.51520e-07	1.000000	1.56377e-07	1.000000
rad38	1.34449e-07	1.000000	1.38759e-07	1.000000
rad19anti	1.41564e-08	1.000000	1.46102e-08	1.000000
rad6	5.35879e-09	1.000000	5.53059e-09	1.000000
rad46	5.06638e-09	1.000000	5.22881e-09	1.000000
rad37	2.86983e-09	1.000000	2.96184e-09	1.000000
rad60syn	2.17485e-09	1.000000	2.24457e-09	1.000000
rad60anti	9.78348e-10	1.000000	1.00971e-09	1.000000
PAH3+H	4.98713e-10	1.000000	5.14701e-10	1.000000
rad59	9.55001e-11	1.000000	9.85617e-11	1.000000
rad28	2.60536e-11	1.000000	2.68888e-11	1.000000
rad19syn	2.21128e-11	1.000000	2.28217e-11	1.000000
rad50	1.38223e-11	1.000000	1.42654e-11	1.000000
rad2	1.13045e-11	1.000000	1.16670e-11	1.000000
rad26	4.41982e-12	1.000000	4.56152e-12	1.000000
rad54	2.40094e-12	1.000000	2.47791e-12	1.000000

rad23	1.68173e-12	1.000000	1.73565e-12	1.000000
rad1	1.35182e-12	1.000000	1.39516e-12	1.000000
PAH10+CH3	9.70419e-13	1.000000	1.00153e-12	1.000000
rad10	6.01796e-13	1.000000	6.21090e-13	1.000000
rad7	5.42423e-13	1.000000	5.59813e-13	1.000000
rad45	4.37927e-13	1.000000	4.51967e-13	1.000000
rad67	2.37492e-13	1.000000	2.45106e-13	1.000000
PhcycC3H3_A+H	2.03140e-13	1.000000	2.09652e-13	1.000000
rad43	1.48445e-13	1.000000	1.53204e-13	1.000000
rad11	1.44590e-13	1.000000	1.49225e-13	1.000000
rad3	1.35867e-13	1.000000	1.40223e-13	1.000000
rad62	1.23066e-13	1.000000	1.27012e-13	1.000000
rad52	1.00173e-13	1.000000	1.03385e-13	1.000000
rad4	7.66066e-14	1.000000	7.90626e-14	1.000000
rad70	6.56843e-14	1.000000	6.77901e-14	1.000000
rad51	3.84251e-14	1.000000	3.96570e-14	1.000000
rad55	2.77305e-14	1.000000	2.86195e-14	1.000000
rad36	2.33314e-14	1.000000	2.40794e-14	1.000000
PAH1+H	2.28960e-14	1.000000	2.36300e-14	1.000000
rad58	1.24937e-14	1.000000	1.28942e-14	1.000000
rad13	3.71271e-15	1.000000	3.83174e-15	1.000000
rad34	2.11777e-15	1.000000	2.18567e-15	1.000000
rad65	9.80446e-16	1.000000	1.01188e-15	1.000000
rad20	3.27943e-16	1.000000	3.38457e-16	1.000000
rad21	2.58376e-16	1.000000	2.66660e-16	1.000000
rad42	8.25256e-17	1.000000	8.51713e-17	1.000000
rad14	2.96351e-17	1.000000	3.05852e-17	1.000000
rad25	2.72261e-17	1.000000	2.80990e-17	1.000000
rad27	2.61888e-17	1.000000	2.70284e-17	1.000000
rad41	2.35253e-17	1.000000	2.42795e-17	1.000000
rad53	2.01904e-17	1.000000	2.08377e-17	1.000000
rad33	1.94950e-17	1.000000	2.01200e-17	1.000000
rad64	7.88175e-18	1.000000	8.13443e-18	1.000000
rad18	4.11012e-18	1.000000	4.24189e-18	1.000000
rad22	1.92267e-18	1.000000	1.98431e-18	1.000000
rad56	7.26405e-19	1.000000	7.49693e-19	1.000000
rad31	1.29648e-19	1.000000	1.33804e-19	1.000000
rad68syn	9.96159e-20	1.000000	1.02810e-19	1.000000
rad68anti	7.08175e-20	1.000000	7.30879e-20	1.000000
rad24	4.11956e-20	1.000000	4.25163e-20	1.000000
rad61	2.99027e-20	1.000000	3.08614e-20	1.000000
rad73	7.90615e-21	1.000000	8.15962e-21	1.000000
rad9	2.63820e-21	1.000000	2.72278e-21	1.000000
rad71	1.53029e-21	1.000000	1.57935e-21	1.000000
rad40syn	1.51638e-21	1.000000	1.56500e-21	1.000000
PAH8+H	1.48901e-21	1.000000	1.53675e-21	1.000000
rad40anti	4.05698e-22	1.000000	4.18704e-22	1.000000
rad72	1.17772e-23	1.000000	1.21547e-23	1.000000
rad15	1.69738e-24	1.000000	1.75180e-24	1.000000
rad12	5.38395e-26	1.000000	5.55656e-26	1.000000
rad5	3.66314e-27	1.000000	3.78058e-27	1.000000
rad47	2.95499e-29	1.000000	3.04973e-29	1.000000
rad8	6.41088e-38	1.000000	6.61640e-38	1.000000

0.100000000E-06 Pa, 600.000000 K

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

Total | 1.36947e-17 (1.00) | 1.26193e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.920850	0.920850	0.999326	0.999326
Benzyl+C2H2	0.0785283	0.999378	0.000000	0.999326
PhCCH+CH3	0.000333045	0.999711	0.000361427	0.999687
PhCHCCH2+H	0.000137020	0.999848	0.000148697	0.999836
PhCCCH3+H	7.54035e-05	0.999924	8.18295e-05	0.999918
Ph+MeAc	3.38749e-05	0.999958	3.67618e-05	0.999955
Ph+Allene	2.17077e-05	0.999979	2.35577e-05	0.999978
rad30	7.59256e-06	0.999987	8.23960e-06	0.999987
PAH7+H	4.39153e-06	0.999991	4.76577e-06	0.999991
PhCH2CCH+H	3.66168e-06	0.999995	3.97373e-06	0.999995
PAH9+H	2.21748e-06	0.999997	2.40646e-06	0.999998
rad39	1.04275e-06	0.999998	1.13162e-06	0.999999
rad38	6.77227e-07	0.999999	7.34941e-07	1.000000
rad35	6.69664e-07	1.000000	7.26734e-07	1.000000
rad19anti	1.16219e-07	1.000000	1.26124e-07	1.000000
rad46	4.03895e-08	1.000000	4.38315e-08	1.000000
rad60syn	1.92850e-08	1.000000	2.09285e-08	1.000000
rad37	1.80180e-08	1.000000	1.95535e-08	1.000000

PAH3+H	9.89107e-09	1.000000	1.07340e-08	1.00000
rad60anti	9.33103e-09	1.000000	1.01262e-08	1.00000
rad59	1.75177e-09	1.000000	1.90106e-09	1.00000
rad19syn	6.85595e-10	1.000000	7.44022e-10	1.00000
rad6	6.58453e-10	1.000000	7.14567e-10	1.00000
rad50	3.60208e-10	1.000000	3.90905e-10	1.00000
rad54	1.00686e-10	1.000000	1.09267e-10	1.00000
PAH10+CH3	2.91650e-11	1.000000	3.16505e-11	1.00000
PhcycC3H3_A+H	1.50044e-11	1.000000	1.62831e-11	1.00000
rad67	9.04132e-12	1.000000	9.81183e-12	1.00000
rad2	5.01547e-12	1.000000	5.44290e-12	1.00000
rad52	4.62412e-12	1.000000	5.01819e-12	1.00000
rad62	4.44939e-12	1.000000	4.82857e-12	1.00000
rad70	4.33463e-12	1.000000	4.70403e-12	1.00000
rad28	4.24036e-12	1.000000	4.60173e-12	1.00000
rad23	4.06543e-12	1.000000	4.41189e-12	1.00000
rad43	3.80245e-12	1.000000	4.12650e-12	1.00000
rad51	2.80846e-12	1.000000	3.04780e-12	1.00000
PAH1+H	2.14128e-12	1.000000	2.32376e-12	1.00000
rad55	1.80944e-12	1.000000	1.96364e-12	1.00000
rad45	1.13882e-12	1.000000	1.23587e-12	1.00000
rad58	1.01135e-12	1.000000	1.09753e-12	1.00000
rad26	8.22515e-13	1.000000	8.92611e-13	1.00000
rad1	7.49063e-13	1.000000	8.12899e-13	1.00000
rad34	2.13663e-13	1.000000	2.31871e-13	1.00000
rad10	1.72259e-13	1.000000	1.86939e-13	1.00000
rad36	9.32566e-14	1.000000	1.01204e-13	1.00000
rad65	8.07537e-14	1.000000	8.76355e-14	1.00000
rad7	7.43010e-14	1.000000	8.06330e-14	1.00000
rad3	6.18801e-14	1.000000	6.71535e-14	1.00000
rad4	3.79621e-14	1.000000	4.11972e-14	1.00000
rad11	2.27190e-14	1.000000	2.46551e-14	1.00000
rad42	8.05555e-15	1.000000	8.74205e-15	1.00000
rad53	4.55502e-15	1.000000	4.94320e-15	1.00000
rad41	2.01468e-15	1.000000	2.18637e-15	1.00000
rad64	1.93975e-15	1.000000	2.10505e-15	1.00000
rad13	6.66204e-16	1.000000	7.22978e-16	1.00000
rad20	4.39486e-16	1.000000	4.76939e-16	1.00000
rad21	3.92599e-16	1.000000	4.26056e-16	1.00000
rad56	3.44520e-16	1.000000	3.73880e-16	1.00000
rad68syn	4.92427e-17	1.000000	5.34391e-17	1.00000
rad68anti	3.44465e-17	1.000000	3.73820e-17	1.00000
rad73	1.47846e-17	1.000000	1.60445e-17	1.00000
rad71	1.06943e-17	1.000000	1.16057e-17	1.00000
rad33	9.54003e-18	1.000000	1.03530e-17	1.00000
rad61	9.46168e-18	1.000000	1.02680e-17	1.00000
rad14	8.72642e-18	1.000000	9.47009e-18	1.00000
rad25	8.44777e-18	1.000000	9.16769e-18	1.00000
rad27	6.99722e-18	1.000000	7.59353e-18	1.00000
rad18	3.12562e-18	1.000000	3.39199e-18	1.00000
PAH8+H	2.30133e-18	1.000000	2.49745e-18	1.00000
rad40syn	1.46649e-18	1.000000	1.59147e-18	1.00000
rad22	1.01005e-18	1.000000	1.09613e-18	1.00000
rad24	5.16592e-19	1.000000	5.60616e-19	1.00000
rad40anti	4.46859e-19	1.000000	4.84941e-19	1.00000
rad72	2.76909e-19	1.000000	3.00507e-19	1.00000
rad9	1.89093e-19	1.000000	2.05208e-19	1.00000
rad31	1.61044e-19	1.000000	1.74769e-19	1.00000
rad15	1.15191e-22	1.000000	1.25007e-22	1.00000
rad12	2.10247e-23	1.000000	2.28164e-23	1.00000
rad5	1.72883e-26	1.000000	1.87617e-26	1.00000
rad47	2.24947e-27	1.000000	2.44117e-27	1.00000
rad8	9.50898e-34	1.000000	1.03193e-33	1.00000

0.100000000E-06 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	6.78335e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.844045	0.844045	0.998243	0.998243
Benzyl+C2H2	0.154470	0.998515	0.00000	0.998243
PhCCH+CH3	0.000746434	0.999261	0.000882800	0.999126
PhCHCCH2+H	0.000320585	0.999582	0.000379153	0.999505
PhCCCH3+H	0.000136742	0.999719	0.000161724	0.999667
Ph+Allene	0.000115963	0.999835	0.000137148	0.999804
Ph+MeAc	8.86607e-05	0.999923	0.000104858	0.999909
PhCH2CCH+H	2.52612e-05	0.999949	2.98762e-05	0.999939

rad30	1.89338e-05	0.999968	2.23928e-05	0.999961
PAH7+H	1.64063e-05	0.999984	1.94036e-05	0.999980
PAH9+H	7.24066e-06	0.999991	8.56345e-06	0.999989
rad39	3.97935e-06	0.999995	4.70633e-06	0.999994
rad38	2.36433e-06	0.999998	2.79627e-06	0.999996
rad35	1.97985e-06	1.000000	2.34155e-06	0.999999
rad19anti	5.91542e-07	1.000000	6.99611e-07	0.999999
rad46	1.95974e-07	1.000000	2.31776e-07	1.000000
rad60syn	9.47747e-08	1.000000	1.12089e-07	1.000000
PAH3+H	8.73469e-08	1.000000	1.03304e-07	1.000000
rad37	5.67278e-08	1.000000	6.70914e-08	1.000000
rad60anti	4.82184e-08	1.000000	5.70274e-08	1.000000
rad59	1.44140e-08	1.000000	1.70472e-08	1.000000
rad19syn	7.75621e-09	1.000000	9.17319e-09	1.000000
rad50	4.08624e-09	1.000000	4.83275e-09	1.000000
rad54	1.41341e-09	1.000000	1.67162e-09	1.000000
PhcycC3H3_A+H	3.16562e-10	1.000000	3.74395e-10	1.000000
PAH10+CH3	2.96584e-10	1.000000	3.50767e-10	1.000000
rad67	1.46304e-10	1.000000	1.73032e-10	1.000000
rad6	8.94947e-11	1.000000	1.05844e-10	1.000000
rad70	8.36625e-11	1.000000	9.89468e-11	1.000000
rad52	7.81517e-11	1.000000	9.24292e-11	1.000000
rad51	6.57432e-11	1.000000	7.77537e-11	1.000000
rad62	5.24317e-11	1.000000	6.20104e-11	1.000000
PAH1+H	5.21516e-11	1.000000	6.16791e-11	1.000000
rad55	3.42217e-11	1.000000	4.04737e-11	1.000000
rad43	3.27207e-11	1.000000	3.86984e-11	1.000000
rad58	2.36726e-11	1.000000	2.79973e-11	1.000000
rad34	5.57916e-12	1.000000	6.59841e-12	1.000000
rad23	2.97441e-12	1.000000	3.51780e-12	1.000000
rad65	2.00966e-12	1.000000	2.37681e-12	1.000000
rad2	1.81937e-12	1.000000	2.15175e-12	1.000000
rad45	9.84239e-13	1.000000	1.16405e-12	1.000000
rad28	6.59799e-13	1.000000	7.80337e-13	1.000000
rad1	3.03681e-13	1.000000	3.59161e-13	1.000000
rad53	2.08843e-13	1.000000	2.46997e-13	1.000000
rad42	1.92431e-13	1.000000	2.27586e-13	1.000000
rad26	1.41647e-13	1.000000	1.67524e-13	1.000000
rad64	9.12085e-14	1.000000	1.07871e-13	1.000000
rad36	8.39640e-14	1.000000	9.93034e-14	1.000000
rad10	4.57098e-14	1.000000	5.40605e-14	1.000000
rad41	4.12906e-14	1.000000	4.88339e-14	1.000000
rad56	2.67462e-14	1.000000	3.16325e-14	1.000000
rad3	2.10679e-14	1.000000	2.49168e-14	1.000000
rad4	1.36341e-14	1.000000	1.61249e-14	1.000000
rad7	1.20300e-14	1.000000	1.42278e-14	1.000000
rad11	5.02032e-15	1.000000	5.93748e-15	1.000000
rad68syn	3.96400e-15	1.000000	4.68818e-15	1.000000
rad68anti	2.73739e-15	1.000000	3.23748e-15	1.000000
rad73	1.33260e-15	1.000000	1.57605e-15	1.000000
rad20	9.46269e-16	1.000000	1.11914e-15	1.000000
rad21	9.16148e-16	1.000000	1.08352e-15	1.000000
rad61	5.37647e-16	1.000000	6.35870e-16	1.000000
rad71	5.32619e-16	1.000000	6.29923e-16	1.000000
PAH8+H	3.96819e-16	1.000000	4.69313e-16	1.000000
rad13	2.39641e-16	1.000000	2.83421e-16	1.000000
rad40syn	1.89641e-16	1.000000	2.24287e-16	1.000000
rad40anti	6.39971e-17	1.000000	7.56887e-17	1.000000
rad9	1.11477e-17	1.000000	1.31842e-17	1.000000
rad33	1.06453e-17	1.000000	1.25900e-17	1.000000
rad72	9.69148e-18	1.000000	1.14620e-17	1.000000
rad24	5.53560e-18	1.000000	6.54690e-18	1.000000
rad18	3.75530e-18	1.000000	4.44135e-18	1.000000
rad25	3.17282e-18	1.000000	3.75246e-18	1.000000
rad14	2.91151e-18	1.000000	3.44342e-18	1.000000
rad27	2.60802e-18	1.000000	3.08448e-18	1.000000
rad22	6.11254e-19	1.000000	7.22924e-19	1.000000
rad31	1.07536e-19	1.000000	1.27182e-19	1.000000
rad15	4.48796e-21	1.000000	5.30787e-21	1.000000
rad12	2.79160e-21	1.000000	3.30160e-21	1.000000
rad5	5.05198e-26	1.000000	5.97492e-26	1.000000
rad47	4.45924e-26	1.000000	5.27390e-26	1.000000
rad8	1.57148e-29	1.000000	1.85857e-29	1.000000

0.100000000E-06 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.12228e-16 (1.00)	2.33587e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745326	0.745326	0.996252	0.996252
Benzyl+C2H2	0.251870	0.997196	0.00000	0.996252
PhCCH+CH3	0.00124162	0.998438	0.00165963	0.997912
PhCHCCH2+H	0.000603921	0.999042	0.000807240	0.998719
Ph+Allene	0.000391607	0.999433	0.000523449	0.999242
PhCCCH3+H	0.000180412	0.999614	0.000241151	0.999483
Ph+MeAc	0.000158702	0.999772	0.000212132	0.999696
PhCH2CCH+H	0.000104747	0.999877	0.000140012	0.999836
PAH7+H	4.20043e-05	0.999919	5.61457e-05	0.999892
rad30	3.73181e-05	0.999956	4.98819e-05	0.999942
PAH9+H	1.83027e-05	0.999975	2.44646e-05	0.999966
rad39	1.01670e-05	0.999985	1.35899e-05	0.999980
rad38	6.28638e-06	0.999991	8.40280e-06	0.999988
rad35	4.61792e-06	0.999996	6.17262e-06	0.999994
rad19anti	2.13374e-06	0.999998	2.85210e-06	0.999997
rad46	6.69423e-07	0.999999	8.94796e-07	0.999998
PAH3+H	4.55926e-07	0.999999	6.09421e-07	0.999999
rad60syn	3.14534e-07	0.999999	4.20427e-07	0.999999
rad60anti	1.66149e-07	0.999999	2.22085e-07	0.999999
rad37	1.16536e-07	1.000000	1.55770e-07	0.999999
rad59	7.05288e-08	1.000000	9.42735e-08	1.000000
rad19syn	4.57469e-08	1.000000	6.11483e-08	1.000000
rad50	2.67321e-08	1.000000	3.57319e-08	1.000000
rad54	9.79642e-09	1.000000	1.30945e-08	1.000000
PhcycC3H3_A+H	2.99417e-09	1.000000	4.00220e-09	1.000000
PAH10+CH3	1.56081e-09	1.000000	2.08628e-09	1.000000
rad67	1.31109e-09	1.000000	1.75248e-09	1.000000
rad51	7.39023e-10	1.000000	9.87827e-10	1.000000
rad70	7.37566e-10	1.000000	9.85880e-10	1.000000
rad52	6.86817e-10	1.000000	9.18045e-10	1.000000
PAH1+H	5.38350e-10	1.000000	7.19595e-10	1.000000
rad62	3.04694e-10	1.000000	4.07274e-10	1.000000
rad55	2.93955e-10	1.000000	3.92920e-10	1.000000
rad58	2.53305e-10	1.000000	3.38585e-10	1.000000
rad43	1.42321e-10	1.000000	1.90236e-10	1.000000
rad34	6.18274e-11	1.000000	8.26426e-11	1.000000
rad65	2.32787e-11	1.000000	3.11159e-11	1.000000
rad6	1.48826e-11	1.000000	1.98931e-11	1.000000
rad53	3.49856e-12	1.000000	4.67641e-12	1.000000
rad42	1.90218e-12	1.000000	2.54258e-12	1.000000
rad64	1.51196e-12	1.000000	2.02099e-12	1.000000
rad23	1.26392e-12	1.000000	1.68944e-12	1.000000
rad56	6.63910e-13	1.000000	8.87426e-13	1.000000
rad45	5.34864e-13	1.000000	7.14934e-13	1.000000
rad2	5.03097e-13	1.000000	6.72473e-13	1.000000
rad41	3.47558e-13	1.000000	4.64569e-13	1.000000
rad28	1.11838e-13	1.000000	1.49491e-13	1.000000
rad68syn	1.02296e-13	1.000000	1.36735e-13	1.000000
rad1	8.16592e-14	1.000000	1.09151e-13	1.000000
rad68anti	6.99251e-14	1.000000	9.34665e-14	1.000000
rad73	5.20757e-14	1.000000	6.96079e-14	1.000000
rad36	4.45261e-14	1.000000	5.95166e-14	1.000000
rad26	2.61780e-14	1.000000	3.49913e-14	1.000000
PAH8+H	1.87431e-14	1.000000	2.50532e-14	1.000000
rad71	1.61360e-14	1.000000	2.15685e-14	1.000000
rad61	1.08870e-14	1.000000	1.45522e-14	1.000000
rad10	1.08103e-14	1.000000	1.44497e-14	1.000000
rad40syn	7.04350e-15	1.000000	9.41482e-15	1.000000
rad3	5.75478e-15	1.000000	7.69222e-15	1.000000
rad4	3.79232e-15	1.000000	5.06906e-15	1.000000
rad7	2.82119e-15	1.000000	3.77099e-15	1.000000
rad20	2.64415e-15	1.000000	3.53434e-15	1.000000
rad40anti	2.60037e-15	1.000000	3.47582e-15	1.000000
rad21	2.51401e-15	1.000000	3.36039e-15	1.000000
rad11	2.16871e-15	1.000000	2.89885e-15	1.000000
rad13	2.95002e-16	1.000000	3.94319e-16	1.000000
rad9	2.46611e-16	1.000000	3.29636e-16	1.000000
rad72	4.17522e-17	1.000000	5.58088e-17	1.000000
rad24	2.87053e-17	1.000000	3.83694e-17	1.000000
rad33	2.00452e-17	1.000000	2.67937e-17	1.000000
rad18	7.61287e-18	1.000000	1.01759e-17	1.000000
rad25	2.03009e-18	1.000000	2.71355e-18	1.000000
rad27	1.63788e-18	1.000000	2.18930e-18	1.000000
rad14	1.45482e-18	1.000000	1.94461e-18	1.000000
rad22	4.55057e-19	1.000000	6.08260e-19	1.000000
rad12	7.13518e-20	1.000000	9.53736e-20	1.000000
rad31	5.78730e-20	1.000000	7.73570e-20	1.000000
rad15	5.71506e-20	1.000000	7.63913e-20	1.000000

rad47	4.71208e-25	1.000000	6.29847e-25	1.000000
rad5	1.32002e-25	1.000000	1.76443e-25	1.000000
rad8	8.26838e-26	1.000000	1.10521e-25	1.000000

0.100000000E-06 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.21769e-16 (1.00)	5.91948e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.637601	0.637601	0.992859	0.992859
Benzyl+C2H2	0.357813	0.995414	0.000000	0.992859
PhCCH+CH3	0.00168534	0.997099	0.00262438	0.995483
PhCHCCH2+H	0.000988072	0.998087	0.00153861	0.997022
Ph+Allene	0.000956826	0.999044	0.00148995	0.998512
PhCH2CCH+H	0.000305642	0.999350	0.000475939	0.998988
Ph+MeAc	0.000221700	0.999572	0.000345227	0.999333
PhCCCH3+H	0.000192583	0.999764	0.000299886	0.999633
PAH7+H	8.18813e-05	0.999846	0.000127504	0.999760
rad30	6.20698e-05	0.999908	9.66537e-05	0.999857
PAH9+H	3.81793e-05	0.999946	5.94520e-05	0.999917
rad39	1.95088e-05	0.999966	3.03786e-05	0.999947
rad38	1.36528e-05	0.999979	2.12599e-05	0.999968
rad35	9.01875e-06	0.999988	1.40438e-05	0.999982
rad19anti	5.95507e-06	0.999994	9.27312e-06	0.999992
rad46	1.77409e-06	0.999996	2.76257e-06	0.999994
PAH3+H	1.66000e-06	0.999998	2.58491e-06	0.999997
rad60syn	7.95279e-07	0.999999	1.23839e-06	0.999998
rad60anti	4.32684e-07	0.999999	6.73766e-07	0.999999
rad59	2.41974e-07	0.999999	3.76797e-07	0.999999
rad37	1.83190e-07	1.000000	2.85260e-07	0.999999
rad19syn	1.72530e-07	1.000000	2.68660e-07	1.000000
rad50	1.19157e-07	1.000000	1.85549e-07	1.000000
rad54	4.18728e-08	1.000000	6.52034e-08	1.000000
PhcycC3H3_A+H	1.64006e-08	1.000000	2.55387e-08	1.000000
rad67	7.68849e-09	1.000000	1.19724e-08	1.000000
PAH10+CH3	5.46405e-09	1.000000	8.50850e-09	1.000000
rad51	5.02706e-09	1.000000	7.82803e-09	1.000000
rad52	3.84545e-09	1.000000	5.98805e-09	1.000000
rad70	3.82633e-09	1.000000	5.95829e-09	1.000000
PAH1+H	3.10814e-09	1.000000	4.83993e-09	1.000000
rad58	1.60256e-09	1.000000	2.49547e-09	1.000000
rad55	1.47818e-09	1.000000	2.30179e-09	1.000000
rad62	1.10198e-09	1.000000	1.71599e-09	1.000000
rad43	3.94154e-10	1.000000	6.13768e-10	1.000000
rad34	3.84578e-10	1.000000	5.98856e-10	1.000000
rad65	1.60296e-10	1.000000	2.49609e-10	1.000000
rad53	2.97668e-11	1.000000	4.63523e-11	1.000000
rad64	1.24766e-11	1.000000	1.94283e-11	1.000000
rad42	1.04398e-11	1.000000	1.62566e-11	1.000000
rad56	7.66797e-12	1.000000	1.19404e-11	1.000000
rad6	2.88207e-12	1.000000	4.48790e-12	1.000000
rad41	1.62749e-12	1.000000	2.53429e-12	1.000000
rad68syn	1.23548e-12	1.000000	1.92386e-12	1.000000
rad73	1.04300e-12	1.000000	1.62414e-12	1.000000
rad68anti	8.37599e-13	1.000000	1.30429e-12	1.000000
rad23	4.95066e-13	1.000000	7.70906e-13	1.000000
rad71	4.05336e-13	1.000000	6.31181e-13	1.000000
PAH8+H	3.69089e-13	1.000000	5.74738e-13	1.000000
rad45	2.49273e-13	1.000000	3.88163e-13	1.000000
rad61	1.15261e-13	1.000000	1.79482e-13	1.000000
rad40syn	1.13803e-13	1.000000	1.77212e-13	1.000000
rad2	1.13241e-13	1.000000	1.76337e-13	1.000000
rad40anti	4.54161e-14	1.000000	7.07209e-14	1.000000
rad36	2.17274e-14	1.000000	3.38334e-14	1.000000
rad28	2.05151e-14	1.000000	3.19457e-14	1.000000
rad1	1.93464e-14	1.000000	3.01259e-14	1.000000
rad20	6.04407e-15	1.000000	9.41170e-15	1.000000
rad26	5.23883e-15	1.000000	8.15779e-15	1.000000
rad21	5.11598e-15	1.000000	7.96650e-15	1.000000
rad10	2.55431e-15	1.000000	3.97752e-15	1.000000
rad11	1.89826e-15	1.000000	2.95593e-15	1.000000
rad3	1.51132e-15	1.000000	2.35339e-15	1.000000
rad9	1.25607e-15	1.000000	1.95593e-15	1.000000
rad7	1.20233e-15	1.000000	1.87225e-15	1.000000
rad4	1.05160e-15	1.000000	1.63753e-15	1.000000
rad72	6.49141e-16	1.000000	1.01083e-15	1.000000
rad13	6.40392e-16	1.000000	9.97204e-16	1.000000

rad24	5.74732e-17	1.000000	8.94960e-17	1.00000
rad33	3.65086e-17	1.000000	5.68504e-17	1.00000
rad18	2.21675e-17	1.000000	3.45187e-17	1.00000
rad25	2.20676e-18	1.000000	3.43632e-18	1.00000
rad27	1.37086e-18	1.000000	2.13468e-18	1.00000
rad14	1.05348e-18	1.000000	1.64046e-18	1.00000
rad22	4.86628e-19	1.000000	7.57766e-19	1.00000
rad12	3.93749e-19	1.000000	6.13138e-19	1.00000
rad15	2.02870e-19	1.000000	3.15904e-19	1.00000
rad31	3.17849e-20	1.000000	4.94948e-20	1.00000
rad8	5.05695e-23	1.000000	7.87458e-23	1.00000
rad47	3.22602e-24	1.000000	5.02348e-24	1.00000
rad5	3.44652e-25	1.000000	5.36685e-25	1.00000

0.100000000E-06 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.23691e-15 (1.00)	1.20781e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.533143	0.533143	0.987405	0.987405
Benzyl+C2H2	0.460056	0.993199	0.00000	0.987405
PhCCH+CH3	0.00197845	0.995177	0.00366418	0.991069
Ph+Allene	0.00184724	0.997025	0.00342117	0.994490
PhCHCCH2+H	0.00145011	0.998475	0.00268567	0.997176
PhCH2CCH+H	0.000695141	0.999170	0.00128743	0.998463
Ph+MeAc	0.000262360	0.999432	0.000485903	0.998949
PhCCCH3+H	0.000178027	0.999610	0.000329715	0.999279
PAH7+H	0.000130563	0.999741	0.000241809	0.999521
rad30	9.13367e-05	0.999832	0.000169160	0.999690
PAH9+H	6.89547e-05	0.999901	0.000127707	0.999818
rad39	3.03500e-05	0.999932	5.62096e-05	0.999874
rad38	2.54970e-05	0.999957	4.72216e-05	0.999921
rad35	1.54295e-05	0.999972	2.85761e-05	0.999950
rad19anti	1.36963e-05	0.999986	2.53661e-05	0.999975
PAH3+H	4.67729e-06	0.999991	8.66256e-06	0.999984
rad46	3.89964e-06	0.999995	7.22231e-06	0.999991
rad60syn	1.65646e-06	0.999996	3.06785e-06	0.999994
rad60anti	9.23124e-07	0.999997	1.70967e-06	0.999996
rad59	6.45414e-07	0.999998	1.19534e-06	0.999997
rad19syn	4.72655e-07	0.999998	8.75378e-07	0.999998
rad50	4.02263e-07	0.999999	7.45009e-07	0.999999
rad37	2.45621e-07	0.999999	4.54902e-07	0.999999
rad54	1.26767e-07	0.999999	2.34777e-07	0.999999
PhcycC3H3_A+H	6.09438e-08	0.999999	1.12871e-07	0.999999
rad67	3.29353e-08	0.999999	6.09977e-08	0.999999
rad51	2.38554e-08	0.999999	4.41812e-08	1.000000
rad52	1.55659e-08	0.999999	2.88287e-08	1.000000
PAH10+CH3	1.49501e-08	0.999999	2.76882e-08	1.000000
rad70	1.36637e-08	0.999999	2.53058e-08	1.000000
PAH1+H	1.19204e-08	0.999999	2.20771e-08	1.000000
rad58	7.00658e-09	0.999999	1.29765e-08	1.000000
rad55	5.08717e-09	0.999999	9.42168e-09	1.000000
rad62	2.86001e-09	0.999999	5.29688e-09	1.000000
rad34	1.59465e-09	0.999999	2.95336e-09	1.000000
rad43	8.01052e-10	0.999999	1.48358e-09	1.000000
rad65	7.61926e-10	0.999999	1.41112e-09	1.000000
rad53	1.57207e-10	0.999999	2.91154e-10	1.000000
rad64	6.32994e-11	0.999999	1.17233e-10	1.000000
rad56	5.17480e-11	0.999999	9.58396e-11	1.000000
rad42	3.80336e-11	0.999999	7.04399e-11	1.000000
rad73	1.18183e-11	0.999999	2.18881e-11	1.000000
rad68syn	8.78399e-12	0.999999	1.62684e-11	1.000000
rad68anti	5.91470e-12	0.999999	1.09543e-11	1.000000
rad71	5.72540e-12	0.999999	1.06037e-11	1.000000
rad41	5.10892e-12	0.999999	9.46194e-12	1.000000
PAH8+H	3.92401e-12	0.999999	7.26745e-12	1.000000
rad40syn	1.02744e-12	0.999999	1.90286e-12	1.000000
rad61	7.99643e-13	0.999999	1.48097e-12	1.000000
rad6	7.36260e-13	0.999999	1.36359e-12	1.000000
rad40anti	4.38115e-13	0.999999	8.11409e-13	1.000000
rad23	2.15946e-13	0.999999	3.99942e-13	1.000000
rad45	1.21202e-13	0.999999	2.24471e-13	1.000000
rad2	2.64290e-14	0.999999	4.89476e-14	1.000000
rad72	1.60130e-14	0.999999	2.96567e-14	1.000000
rad36	1.09233e-14	0.999999	2.02304e-14	1.000000
rad20	8.81739e-15	0.999999	1.63302e-14	1.000000
rad21	6.41659e-15	0.999999	1.18838e-14	1.000000

rad1	5.08838e-15	0.999999	9.42392e-15	1.000000
rad28	4.55960e-15	0.999999	8.44458e-15	1.000000
rad11	2.75240e-15	0.999999	5.09757e-15	1.000000
rad9	2.12584e-15	0.999999	3.93714e-15	1.000000
rad26	1.28016e-15	0.999999	2.37091e-15	1.000000
rad13	1.26932e-15	0.999999	2.35083e-15	1.000000
rad7	1.23078e-15	0.999999	2.27945e-15	1.000000
rad10	9.53684e-16	0.999999	1.76627e-15	1.000000
rad3	4.58474e-16	0.999999	8.49115e-16	1.000000
rad4	3.35336e-16	0.999999	6.21058e-16	1.000000
rad18	7.80183e-17	0.999999	1.44494e-16	1.000000
rad24	5.90769e-17	0.999999	1.09413e-16	1.000000
rad33	4.69552e-17	0.999999	8.69632e-17	1.000000
rad25	3.13967e-18	0.999999	5.81481e-18	1.000000
rad27	1.11645e-18	0.999999	2.06772e-18	1.000000
rad14	9.24133e-19	0.999999	1.71154e-18	1.000000
rad12	8.61558e-19	0.999999	1.59564e-18	1.000000
rad22	8.27248e-19	0.999999	1.53210e-18	1.000000
rad15	2.87767e-19	0.999999	5.32957e-19	1.000000
rad31	1.86001e-20	0.999999	3.44482e-20	1.000000
rad8	3.09659e-21	0.999999	5.73503e-21	1.000000
rad47	1.58916e-23	0.999999	2.94320e-23	1.000000
rad5	1.03419e-24	0.999999	1.91537e-24	1.000000

0.1000000000E-06 Pa, 1100.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.11075e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.550759	0.550759	0.000000	0.000000
Indene+H	0.439889	0.990648	0.979181	0.979181
Ph+Allene	0.00299528	0.993643	0.00666742	0.985848
PhCCH+CH3	0.00208760	0.995731	0.00464694	0.990495
PhCHCCH2+H	0.00194544	0.997676	0.00433051	0.994826
PhCH2CCH+H	0.00132191	0.998998	0.00294254	0.997768
Ph+MeAc	0.000277389	0.999276	0.000617461	0.998386
PAH7+H	0.000179385	0.999455	0.000399306	0.998785
PhCCCH3+H	0.000149168	0.999604	0.000332043	0.999117
rad30	0.000123015	0.999727	0.000273827	0.999391
PAH9+H	0.000111696	0.999839	0.000248632	0.999640
rad38	4.24978e-05	0.999881	9.45991e-05	0.999734
rad39	4.04278e-05	0.999922	8.99912e-05	0.999824
rad19anti	2.71780e-05	0.999949	6.04975e-05	0.999885
rad35	2.39104e-05	0.999973	5.32238e-05	0.999938
PAH3+H	1.09195e-05	0.999984	2.43064e-05	0.999962
rad46	7.44861e-06	0.999991	1.65804e-05	0.999979
rad60syn	2.99524e-06	0.999994	6.66734e-06	0.999986
rad60anti	1.70291e-06	0.999996	3.79064e-06	0.999989
rad59	1.43231e-06	0.999997	3.18828e-06	0.999993
rad50	1.10325e-06	0.999998	2.45580e-06	0.999995
rad19syn	1.02396e-06	1.000000	2.27932e-06	0.999997
rad37	3.04609e-07	1.000000	6.78052e-07	0.999998
rad54	2.97942e-07	1.000000	6.63211e-07	0.999999
PhcycC3H3_A+H	1.70469e-07	1.000000	3.79460e-07	0.999999
rad67	1.11020e-07	1.000000	2.47128e-07	0.999999
rad51	8.66313e-08	1.000000	1.92839e-07	0.999999
rad52	4.94924e-08	1.000000	1.10169e-07	1.000000
rad70	3.72387e-08	1.000000	8.28925e-08	1.000000
PAH10+CH3	3.55700e-08	1.000000	7.91778e-08	1.000000
PAH1+H	3.40420e-08	1.000000	7.57766e-08	1.000000
rad58	2.33985e-08	1.000000	5.20844e-08	1.000000
rad55	1.32727e-08	1.000000	2.95447e-08	1.000000
rad62	5.84585e-09	1.000000	1.30127e-08	1.000000
rad34	4.93270e-09	1.000000	1.09801e-08	1.000000
rad65	2.75373e-09	1.000000	6.12974e-09	1.000000
rad43	1.31323e-09	1.000000	2.92321e-09	1.000000
rad53	5.86805e-10	1.000000	1.30621e-09	1.000000
rad56	2.36331e-10	1.000000	5.26066e-10	1.000000
rad64	2.26679e-10	1.000000	5.04581e-10	1.000000
rad42	1.03252e-10	1.000000	2.29836e-10	1.000000
rad73	8.74239e-11	1.000000	1.94603e-10	1.000000
rad71	5.09993e-11	1.000000	1.13523e-10	1.000000
rad68syn	4.26221e-11	1.000000	9.48757e-11	1.000000
rad68anti	2.85345e-11	1.000000	6.35171e-11	1.000000
PAH8+H	2.67129e-11	1.000000	5.94621e-11	1.000000
rad41	1.21931e-11	1.000000	2.71415e-11	1.000000
rad40syn	6.09410e-12	1.000000	1.35653e-11	1.000000

rad61	4.16713e-12	1.00000	9.27594e-12	1.000000
rad40anti	2.75055e-12	1.00000	6.12265e-12	1.000000
rad6	2.65944e-13	1.00000	5.91985e-13	1.000000
rad72	2.32337e-13	1.00000	5.17175e-13	1.000000
rad23	1.01281e-13	1.00000	2.25448e-13	1.000000
rad45	6.12250e-14	1.00000	1.36285e-13	1.000000
rad20	7.93855e-15	1.00000	1.76710e-14	1.000000
rad2	6.90607e-15	1.00000	1.53727e-14	1.000000
rad36	5.62816e-15	1.00000	1.25281e-14	1.000000
rad21	5.10807e-15	1.00000	1.13704e-14	1.000000
rad11	4.54888e-15	1.00000	1.01257e-14	1.000000
rad9	2.20983e-15	1.00000	4.91903e-15	1.000000
rad7	2.06279e-15	1.00000	4.59172e-15	1.000000
rad13	1.66086e-15	1.00000	3.69703e-15	1.000000
rad1	1.44780e-15	1.00000	3.22276e-15	1.000000
rad28	1.32558e-15	1.00000	2.95072e-15	1.000000
rad10	6.05448e-16	1.00000	1.34771e-15	1.000000
rad26	4.07925e-16	1.00000	9.08031e-16	1.000000
rad18	2.44826e-16	1.00000	5.44977e-16	1.000000
rad3	1.56099e-16	1.00000	3.47472e-16	1.000000
rad4	1.17559e-16	1.00000	2.61684e-16	1.000000
rad24	4.56170e-17	1.00000	1.01542e-16	1.000000
rad33	3.94211e-17	1.00000	8.77504e-17	1.000000
rad25	3.94356e-18	1.00000	8.77826e-18	1.000000
rad22	2.09469e-18	1.00000	4.66274e-18	1.000000
rad12	1.26339e-18	1.00000	2.81227e-18	1.000000
rad14	7.49662e-19	1.00000	1.66873e-18	1.000000
rad27	7.01394e-19	1.00000	1.56129e-18	1.000000
rad15	2.87176e-19	1.00000	6.39246e-19	1.000000
rad8	3.02695e-20	1.00000	6.73791e-20	1.000000
rad31	1.11579e-20	1.00000	2.48372e-20	1.000000
rad47	5.97458e-23	1.00000	1.32993e-22	1.000000
rad5	3.61148e-24	1.00000	8.03907e-24	1.000000

0.100000000E-06 Pa, 1200.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.84330e-15 (1.00)	3.30079e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.626747	0.626747	0.00000	0.00000
Indene+H	0.361139	0.987886	0.967544	0.967544
Ph+Allene	0.00426331	0.992149	0.0114220	0.978966
PhCHCCH2+H	0.00242727	0.994577	0.00650302	0.985469
PhCH2CCH+H	0.00220912	0.996786	0.00591855	0.991388
PhCCH+CH3	0.00203529	0.998821	0.00545285	0.996840
Ph+MeAc	0.000271659	0.999093	0.000727814	0.997568
PAH7+H	0.000220958	0.999314	0.000591978	0.998160
PAH9+H	0.000166476	0.999480	0.000446015	0.998606
rad30	0.000155353	0.999635	0.000416215	0.999022
PhCCCH3+H	0.000117029	0.999752	0.000313538	0.999336
rad38	6.49367e-05	0.999817	0.000173975	0.999510
rad19anti	4.80909e-05	0.999865	0.000128843	0.999639
rad39	4.80571e-05	0.999914	0.000128752	0.999768
rad35	3.43899e-05	0.999948	9.21355e-05	0.999860
PAH3+H	2.21253e-05	0.999970	5.92770e-05	0.999919
rad46	1.27762e-05	0.999983	3.42294e-05	0.999953
rad60syn	4.87439e-06	0.999988	1.30592e-05	0.999966
rad60anti	2.81860e-06	0.999991	7.55145e-06	0.999974
rad59	2.76936e-06	0.999993	7.41953e-06	0.999981
rad50	2.57972e-06	0.999996	6.91144e-06	0.999988
rad19syn	1.86136e-06	0.999998	4.98686e-06	0.999993
rad54	5.79322e-07	0.999998	1.55209e-06	0.999995
PhcycC3H3_A+H	3.85542e-07	0.999999	1.03292e-06	0.999996
rad37	3.71909e-07	0.999999	9.96399e-07	0.999997
rad67	3.10056e-07	0.999999	8.30686e-07	0.999998
rad51	2.56406e-07	1.000000	6.86949e-07	0.999998
rad52	1.30814e-07	1.000000	3.50469e-07	0.999999
rad70	8.31661e-08	1.000000	2.22814e-07	0.999999
PAH10+CH3	7.86243e-08	1.000000	2.10646e-07	0.999999
PAH1+H	7.84240e-08	1.000000	2.10109e-07	0.999999
rad58	6.38230e-08	1.000000	1.70991e-07	0.999999
rad55	2.81615e-08	1.000000	7.54487e-08	0.999999
rad34	1.22937e-08	1.000000	3.29365e-08	0.999999
rad62	1.00322e-08	1.000000	2.68777e-08	1.000000
rad65	8.07952e-09	1.000000	2.16462e-08	1.000000
rad43	1.86209e-09	1.000000	4.98881e-09	1.000000
rad53	1.69057e-09	1.000000	4.52927e-09	1.000000

rad56	8.06531e-10	1.00000	2.16081e-09	1.000000
rad64	6.30249e-10	1.00000	1.68853e-09	1.000000
rad73	4.67949e-10	1.00000	1.25370e-09	1.000000
rad71	3.19752e-10	1.00000	8.56663e-10	1.000000
rad42	2.25979e-10	1.00000	6.05431e-10	1.000000
rad68syn	1.55936e-10	1.00000	4.17774e-10	1.000000
PAH8+H	1.30631e-10	1.00000	3.49980e-10	1.000000
rad68anti	1.03878e-10	1.00000	2.78304e-10	1.000000
rad40syn	2.64822e-11	1.00000	7.09497e-11	1.000000
rad41	2.43325e-11	1.00000	6.51903e-11	1.000000
rad61	1.76266e-11	1.00000	4.72244e-11	1.000000
rad40anti	1.25561e-11	1.00000	3.36398e-11	1.000000
rad72	2.17907e-12	1.00000	5.83806e-12	1.000000
rad6	1.40665e-13	1.00000	3.76863e-13	1.000000
rad23	4.97935e-14	1.00000	1.33404e-13	1.000000
rad45	3.17908e-14	1.00000	8.51721e-14	1.000000
rad11	6.24456e-15	1.00000	1.67301e-14	1.000000
rad20	5.25317e-15	1.00000	1.40740e-14	1.000000
rad7	3.48868e-15	1.00000	9.34669e-15	1.000000
rad21	3.17166e-15	1.00000	8.49734e-15	1.000000
rad36	2.96639e-15	1.00000	7.94739e-15	1.000000
rad9	1.96547e-15	1.00000	5.26579e-15	1.000000
rad2	1.95952e-15	1.00000	5.24985e-15	1.000000
rad13	1.37603e-15	1.00000	3.68658e-15	1.000000
rad28	5.40644e-16	1.00000	1.44846e-15	1.000000
rad18	5.20685e-16	1.00000	1.39499e-15	1.000000
rad10	4.60242e-16	1.00000	1.23306e-15	1.000000
rad1	4.31509e-16	1.00000	1.15607e-15	1.000000
rad26	1.72820e-16	1.00000	4.63011e-16	1.000000
rad3	5.71265e-17	1.00000	1.53050e-16	1.000000
rad4	4.37806e-17	1.00000	1.17295e-16	1.000000
rad24	3.33436e-17	1.00000	8.93325e-17	1.000000
rad33	2.51829e-17	1.00000	6.74686e-17	1.000000
rad22	6.97546e-18	1.00000	1.86883e-17	1.000000
rad25	3.68476e-18	1.00000	9.87200e-18	1.000000
rad12	1.57452e-18	1.00000	4.21838e-18	1.000000
rad14	4.93370e-19	1.00000	1.32181e-18	1.000000
rad15	4.68608e-19	1.00000	1.25547e-18	1.000000
rad27	3.32748e-19	1.00000	8.91480e-19	1.000000
rad8	9.89268e-20	1.00000	2.65039e-19	1.000000
rad31	6.76592e-21	1.00000	1.81269e-20	1.000000
rad47	1.81317e-22	1.00000	4.85774e-22	1.000000
rad5	1.37247e-23	1.00000	3.67705e-23	1.000000

0.100000000E-06 Pa, 1300.00000 K

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

Total | 1.52810e-14 (1.00) | 4.76644e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.688080	0.688080	0.00000	0.00000
Indene+H	0.296944	0.985024	0.951986	0.951986
Ph+Allene	0.00550433	0.990528	0.0176466	0.969633
PhCH2CCH+H	0.00336231	0.993891	0.0107794	0.980412
PhCHCCH2+H	0.00286585	0.996756	0.00918775	0.989600
PhCCH+CH3	0.00187197	0.998628	0.00600145	0.995601
Ph+MeAc	0.000252917	0.998881	0.000810838	0.996412
PAH7+H	0.000251839	0.999133	0.000807383	0.997219
PAH9+H	0.000232565	0.999366	0.000745592	0.997965
rad30	0.000187145	0.999553	0.000599977	0.998565
rad38	9.27358e-05	0.999646	0.000297306	0.998862
PhCCCH3+H	8.81977e-05	0.999734	0.000282757	0.999145
rad19anti	7.76866e-05	0.999812	0.000249059	0.999394
rad39	5.27138e-05	0.999864	0.000168998	0.999563
rad35	4.67240e-05	0.999911	0.000149795	0.999713
PAH3+H	4.01931e-05	0.999951	0.000128857	0.999842
rad46	2.01481e-05	0.999971	6.45939e-05	0.999906
rad60syn	7.32140e-06	0.999979	2.34720e-05	0.999930
rad50	5.32215e-06	0.999984	1.70625e-05	0.999947
rad59	4.81766e-06	0.999989	1.54452e-05	0.999962
rad60anti	4.29551e-06	0.999993	1.37712e-05	0.999976
rad19syn	2.96344e-06	0.999996	9.50065e-06	0.999986
rad54	9.75309e-07	0.999997	3.12679e-06	0.999989
rad67	7.44257e-07	0.999998	2.38605e-06	0.999991
PhcycC3H3_A+H	7.41843e-07	0.999999	2.37831e-06	0.999993
rad51	6.46585e-07	0.999999	2.07292e-06	0.999996
rad37	4.66727e-07	1.000000	1.49630e-06	0.999997
rad52	2.99170e-07	1.000000	9.59124e-07	0.999998

PAH10+CH3	1.66594e-07	1.00000	5.34093e-07	0.999999
rad70	1.60097e-07	1.00000	5.13264e-07	0.999999
PAH1+H	1.54574e-07	1.00000	4.95557e-07	1.000000
rad58	1.48959e-07	1.00000	4.77556e-07	1.000000
rad55	5.10750e-08	1.00000	1.63744e-07	1.000000
rad34	2.60671e-08	1.00000	8.35698e-08	1.000000
rad65	2.01508e-08	1.00000	6.46025e-08	1.000000
rad62	1.51327e-08	1.00000	4.85146e-08	1.000000
rad53	3.99906e-09	1.00000	1.28208e-08	1.000000
rad43	2.42224e-09	1.00000	7.76557e-09	1.000000
rad56	2.20471e-09	1.00000	7.06819e-09	1.000000
rad73	1.94724e-09	1.00000	6.24276e-09	1.000000
rad71	1.52459e-09	1.00000	4.88774e-09	1.000000
rad64	1.45722e-09	1.00000	4.67176e-09	1.000000
PAH8+H	4.97086e-10	1.00000	1.59363e-09	1.000000
rad68syn	4.61120e-10	1.00000	1.47833e-09	1.000000
rad42	4.21653e-10	1.00000	1.35180e-09	1.000000
rad68anti	3.05850e-10	1.00000	9.80538e-10	1.000000
rad40syn	9.09556e-11	1.00000	2.91599e-10	1.000000
rad61	6.30316e-11	1.00000	2.02076e-10	1.000000
rad40anti	4.50261e-11	1.00000	1.44351e-10	1.000000
rad41	4.39793e-11	1.00000	1.40995e-10	1.000000
rad72	1.45373e-11	1.00000	4.66058e-11	1.000000
rad6	1.05532e-13	1.00000	3.38331e-13	1.000000
rad23	2.55088e-14	1.00000	8.17800e-14	1.000000
rad45	1.69460e-14	1.00000	5.43279e-14	1.000000
rad11	6.08184e-15	1.00000	1.94981e-14	1.000000
rad7	4.46029e-15	1.00000	1.42995e-14	1.000000
rad20	3.18168e-15	1.00000	1.02003e-14	1.000000
rad21	1.87706e-15	1.00000	6.01774e-15	1.000000
rad9	1.62686e-15	1.00000	5.21564e-15	1.000000
rad36	1.60265e-15	1.00000	5.13802e-15	1.000000
rad13	8.37407e-16	1.00000	2.68468e-15	1.000000
rad18	6.76196e-16	1.00000	2.16785e-15	1.000000
rad2	5.86246e-16	1.00000	1.87948e-15	1.000000
rad28	3.18200e-16	1.00000	1.02013e-15	1.000000
rad10	2.93219e-16	1.00000	9.40044e-16	1.000000
rad1	1.33099e-16	1.00000	4.26707e-16	1.000000
rad26	9.20089e-17	1.00000	2.94976e-16	1.000000
rad22	2.57704e-17	1.00000	8.26184e-17	1.000000
rad24	2.44030e-17	1.00000	7.82347e-17	1.000000
rad3	2.20492e-17	1.00000	7.06885e-17	1.000000
rad4	1.71012e-17	1.00000	5.48254e-17	1.000000
rad33	1.48882e-17	1.00000	4.77307e-17	1.000000
rad25	2.76125e-18	1.00000	8.85244e-18	1.000000
rad15	1.99694e-18	1.00000	6.40207e-18	1.000000
rad12	1.79600e-18	1.00000	5.75787e-18	1.000000
rad14	2.71727e-19	1.00000	8.71141e-19	1.000000
rad8	1.89596e-19	1.00000	6.07834e-19	1.000000
rad27	1.34953e-19	1.00000	4.32651e-19	1.000000
rad31	4.14038e-21	1.00000	1.32738e-20	1.000000
rad47	4.64662e-22	1.00000	1.48968e-21	1.000000
rad5	5.02253e-23	1.00000	1.61020e-22	1.000000

0.100000000E-06 Pa, 1400.00000 K

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

Total | 2.46691e-14 (1.00) | 6.50155e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.736450	0.736450	0.00000	0.00000
Indene+H	0.245659	0.982109	0.932117	0.932117
Ph+Allene	0.00660861	0.988718	0.0250754	0.957192
PhCH2CCH+H	0.00478128	0.993499	0.0181419	0.975334
PhCHCCH2+H	0.00325578	0.996755	0.0123536	0.987688
PhCCH+CH3	0.00165084	0.998406	0.00626388	0.993952
PAH9+H	0.000308661	0.998714	0.00117117	0.995123
PAH7+H	0.000272630	0.998987	0.00103445	0.996157
Ph+MeAc	0.000228420	0.999215	0.000866707	0.997024
rad30	0.000217655	0.999433	0.000825859	0.997850
rad38	0.000125529	0.999558	0.000476301	0.998326
rad19anti	0.000116511	0.999675	0.000442085	0.998768
PAH3+H	6.69984e-05	0.999742	0.000254215	0.999023
PhCCCH3+H	6.53819e-05	0.999807	0.000248082	0.999271
rad35	6.07397e-05	0.999868	0.000230468	0.999501
rad39	5.49305e-05	0.999923	0.000208426	0.999710
rad46	2.97185e-05	0.999953	0.000112762	0.999822
rad60syn	1.03332e-05	0.999963	3.92077e-05	0.999862

rad50	9.93210e-06	0.999973	3.76859e-05	0.999899
rad59	7.71556e-06	0.999981	2.92756e-05	0.999928
rad60anti	6.13929e-06	0.999987	2.32946e-05	0.999952
rad19syn	4.26609e-06	0.999991	1.61870e-05	0.999968
rad67	1.57759e-06	0.999993	5.98594e-06	0.999974
rad54	1.46998e-06	0.999994	5.57763e-06	0.999980
rad51	1.43445e-06	0.999996	5.44280e-06	0.999985
PhcycC3H3_A+H	1.26043e-06	0.999997	4.78252e-06	0.999990
rad37	6.13241e-07	0.999997	2.32685e-06	0.999992
rad52	6.09458e-07	0.999998	2.31250e-06	0.999994
PAH10+CH3	3.40070e-07	0.999998	1.29034e-06	0.999996
rad58	3.07503e-07	0.999999	1.16677e-06	0.999997
rad70	2.75599e-07	0.999999	1.04572e-06	0.999998
PAH1+H	2.72543e-07	0.999999	1.03413e-06	0.999999
rad55	8.21114e-08	0.999999	3.11559e-07	0.999999
rad34	4.89123e-08	0.999999	1.85590e-07	0.999999
rad65	4.41608e-08	0.999999	1.67561e-07	1.000000
rad62	2.07591e-08	0.999999	7.87674e-08	1.000000
rad53	8.12265e-09	0.999999	3.08202e-08	1.000000
rad73	6.62662e-09	0.999999	2.51437e-08	1.000000
rad71	5.83659e-09	0.999999	2.21461e-08	1.000000
rad56	5.57502e-09	0.999999	1.92564e-08	1.000000
rad43	3.05585e-09	0.999999	1.15950e-08	1.000000
rad64	2.94785e-09	0.999999	1.11852e-08	1.000000
PAH8+H	1.55760e-09	0.999999	5.91010e-09	1.000000
rad68syn	1.15822e-09	0.999999	4.39468e-09	1.000000
rad68anti	7.65284e-10	0.999999	2.90376e-09	1.000000
rad42	6.99013e-10	0.999999	2.65230e-09	1.000000
rad40syn	2.60577e-10	0.999999	9.88719e-10	1.000000
rad61	1.94739e-10	0.999999	7.38907e-10	1.000000
rad40anti	1.33993e-10	0.999999	5.08417e-10	1.000000
rad41	7.68994e-11	0.999999	2.91783e-10	1.000000
rad72	7.37095e-11	0.999999	2.79680e-10	1.000000
rad6	1.01945e-13	0.999999	3.86813e-13	1.000000
rad23	1.36476e-14	0.999999	5.17839e-14	1.000000
rad45	9.28919e-15	0.999999	3.52464e-14	1.000000
rad11	4.33247e-15	0.999999	1.64389e-14	1.000000
rad7	3.93690e-15	0.999999	1.49380e-14	1.000000
rad20	1.95003e-15	0.999999	7.39910e-15	1.000000
rad9	1.29129e-15	0.999999	4.89961e-15	1.000000
rad21	1.13739e-15	0.999999	4.31567e-15	1.000000
rad36	8.89899e-16	0.999999	3.37659e-15	1.000000
rad18	5.84528e-16	0.999999	2.21791e-15	1.000000
rad13	4.53189e-16	0.999999	1.71956e-15	1.000000
rad28	2.56609e-16	0.999999	9.73664e-16	1.000000
rad2	1.82818e-16	0.999999	6.93675e-16	1.000000
rad10	1.42747e-16	0.999999	5.41633e-16	1.000000
rad22	8.73723e-17	0.999999	3.31521e-16	1.000000
rad26	5.48603e-17	0.999999	2.08159e-16	1.000000
rad1	4.24341e-17	0.999999	1.61010e-16	1.000000
rad24	1.80067e-17	0.999999	6.83237e-17	1.000000
rad3	8.89168e-18	0.999999	3.37382e-17	1.000000
rad33	8.79958e-18	0.999999	3.33887e-17	1.000000
rad4	6.96340e-18	0.999999	2.64216e-17	1.000000
rad15	6.28107e-18	0.999999	2.38326e-17	1.000000
rad12	1.93287e-18	0.999999	7.33399e-18	1.000000
rad25	1.92135e-18	0.999999	7.29027e-18	1.000000
rad8	2.79512e-19	0.999999	1.06057e-18	1.000000
rad14	1.41990e-19	0.999999	5.38760e-19	1.000000
rad27	5.43615e-20	0.999999	2.06267e-19	1.000000
rad31	2.56226e-21	0.999999	9.72211e-21	1.000000
rad47	1.04027e-21	0.999999	3.94715e-21	1.000000
rad5	1.54554e-22	0.999999	5.86431e-22	1.000000

0.100000000E-06 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.51560e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.774067	0.774067	0.00000	0.00000
Indene+H	0.205065	0.979132	0.907636	0.907636
Ph+Allene	0.00752036	0.986652	0.0332858	0.940922
PhCH2CCH+H	0.00646723	0.993120	0.0286246	0.969546
PhCHCCH2+H	0.00361205	0.996732	0.0159873	0.985534
PhCCH+CH3	0.00141397	0.998146	0.00625837	0.991792
PAH9+H	0.000393094	0.998539	0.00173987	0.993532
PAH7+H	0.000286546	0.998825	0.00126828	0.994800

rad30	0.000246477	0.999072	0.00109093	0.995891
Ph+MeAc	0.000203626	0.999275	0.000901268	0.996792
rad19anti	0.000164236	0.999440	0.000726923	0.997519
rad38	0.000162728	0.999602	0.000720251	0.998240
PAH3+H	0.000104218	0.999707	0.000461281	0.998701
rad35	7.62565e-05	0.999783	6.000337518	0.999038
rad39	5.58557e-05	0.999839	0.000247223	0.999286
PhCCCH3+H	4.89506e-05	0.999888	0.000216660	0.999502
rad46	4.15217e-05	0.999929	0.000183779	0.999686
rad50	1.70754e-05	0.999946	7.55771e-05	0.999762
rad60syn	1.38815e-05	0.999960	6.14410e-05	0.999823
rad59	1.15663e-05	0.999972	5.11935e-05	0.999874
rad60anti	8.33859e-06	0.999980	3.69074e-05	0.999911
rad19syn	5.68956e-06	0.999986	2.51825e-05	0.999936
rad67	3.01383e-06	0.999989	1.33395e-05	0.999950
rad51	2.86542e-06	0.999992	1.26826e-05	0.999962
rad54	2.03370e-06	0.999994	9.00134e-06	0.999971
PhcycC3H3_A+H	1.94411e-06	0.999996	8.60479e-06	0.999980
rad52	1.12959e-06	0.999997	4.99968e-06	0.999985
rad37	8.38280e-07	0.999997	3.71030e-06	0.999989
PAH10+CH3	6.63376e-07	0.999998	2.93617e-06	0.999992
rad58	5.75067e-07	0.999999	2.54530e-06	0.999994
PAH1+H	4.44629e-07	0.999999	1.96797e-06	0.999996
rad70	4.35873e-07	1.000000	1.92921e-06	0.999998
rad55	1.20222e-07	1.000000	5.32112e-07	0.999999
rad65	8.70999e-08	1.000000	3.85512e-07	0.999999
rad34	8.35876e-08	1.000000	3.69966e-07	0.999999
rad62	2.65880e-08	1.000000	1.17681e-07	0.999999
rad73	1.91029e-08	1.000000	8.45513e-08	1.000000
rad71	1.86182e-08	1.000000	8.24060e-08	1.000000
rad53	1.46409e-08	1.000000	6.48019e-08	1.000000
rad56	1.02046e-08	1.000000	4.51664e-08	1.000000
rad64	5.41559e-09	1.000000	2.39699e-08	1.000000
PAH8+H	4.18063e-09	1.000000	1.85038e-08	1.000000
rad43	3.92947e-09	1.000000	1.73922e-08	1.000000
rad68syn	2.56012e-09	1.000000	1.13313e-08	1.000000
rad68anti	1.68587e-09	1.000000	7.46183e-09	1.000000
rad42	1.06259e-09	1.000000	4.70314e-09	1.000000
rad40syn	6.46765e-10	1.000000	2.86264e-09	1.000000
rad61	5.26863e-10	1.000000	2.33195e-09	1.000000
rad40anti	3.43892e-10	1.000000	1.52210e-09	1.000000
rad72	2.96653e-10	1.000000	1.31301e-09	1.000000
rad41	1.35344e-10	1.000000	5.99046e-10	1.000000
rad6	1.09169e-13	1.000000	4.83193e-13	1.000000
rad23	7.72826e-15	1.000000	3.42060e-14	1.000000
rad45	5.23954e-15	1.000000	2.31907e-14	1.000000
rad11	2.60240e-15	1.000000	1.15185e-14	1.000000
rad7	2.59262e-15	1.000000	1.14752e-14	1.000000
rad20	1.23074e-15	1.000000	5.44737e-15	1.000000
rad9	1.00094e-15	1.000000	4.43025e-15	1.000000
rad21	7.10953e-16	1.000000	3.14675e-15	1.000000
rad36	5.08397e-16	1.000000	2.25021e-15	1.000000
rad18	4.05516e-16	1.000000	1.79485e-15	1.000000
rad28	2.47531e-16	1.000000	1.09560e-15	1.000000
rad13	2.40585e-16	1.000000	1.06485e-15	1.000000
rad22	2.28971e-16	1.000000	1.01345e-15	1.000000
rad2	5.90717e-17	1.000000	2.61457e-16	1.000000
rad10	5.67311e-17	1.000000	2.51097e-16	1.000000
rad26	3.23234e-17	1.000000	1.43066e-16	1.000000
rad1	1.39797e-17	1.000000	6.18757e-17	1.000000
rad24	1.34246e-17	1.000000	5.94185e-17	1.000000
rad15	1.14537e-17	1.000000	5.06952e-17	1.000000
rad33	5.25042e-18	1.000000	2.32388e-17	1.000000
rad3	3.73576e-18	1.000000	1.65348e-17	1.000000
rad4	2.95030e-18	1.000000	1.30583e-17	1.000000
rad12	1.99725e-18	1.000000	8.84000e-18	1.000000
rad25	1.32639e-18	1.000000	5.87071e-18	1.000000
rad8	3.57803e-19	1.000000	1.58367e-18	1.000000
rad14	7.59784e-20	1.000000	3.36288e-19	1.000000
rad27	2.30896e-20	1.000000	1.02197e-19	1.000000
rad47	2.08549e-21	1.000000	9.23059e-21	1.000000
rad31	1.60839e-21	1.000000	7.11887e-21	1.000000
rad5	3.58501e-22	1.000000	1.58676e-21	1.000000

0.100000000E-06 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	1.49145e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837640	0.837640	0.000000	0.000000
Indene+H	0.133064	0.970704	0.819559	0.819559
PhCH2CCH+H	0.0118056	0.982510	0.0727127	0.892272
Ph+Allene	0.00950091	0.992011	0.0585175	0.950789
PhCHCCH2+H	0.00446803	0.996479	0.0275192	0.978308
PhCCH+CH3	0.000861597	0.997340	0.00530671	0.983615
PAH9+H	0.000556652	0.997897	0.00342850	0.987044
rad30	0.000325000	0.998222	0.00200173	0.989045
rad19anti	0.000321503	0.998543	0.00198018	0.991026
rad38	0.000287109	0.998830	0.00176835	0.992794
PAH7+H	0.000286344	0.999117	0.00176363	0.994557
PAH3+H	0.000275296	0.999392	0.00169559	0.996253
Ph+MeAc	0.000167695	0.999560	0.00103286	0.997286
rad35	0.000110066	0.999670	0.000677915	0.997964
rad46	7.52920e-05	0.999745	0.000463735	0.998428
rad39	5.82425e-05	0.999803	0.000358724	0.998786
rad50	4.36581e-05	0.999847	0.000268897	0.999055
PhCCCH3+H	3.20470e-05	0.999879	0.000197382	0.999253
rad59	2.75338e-05	0.999907	0.000169584	0.999422
rad60syn	2.64498e-05	0.999933	0.000162908	0.999585
rad60anti	1.77452e-05	0.999951	0.000109295	0.999694
rad51	1.06304e-05	0.999961	6.54744e-05	0.999760
rad67	1.00266e-05	0.999971	6.17554e-05	0.999822
rad19syn	8.12817e-06	0.999980	5.00626e-05	0.999872
PhcycC3H3_A+H	4.32964e-06	0.999984	2.66669e-05	0.999898
rad52	3.62585e-06	0.999988	2.23321e-05	0.999921
rad54	3.10468e-06	0.999991	1.91222e-05	0.999940
PAH10+CH3	2.60306e-06	0.999993	1.60326e-05	0.999956
rad58	2.01823e-06	0.999995	1.24306e-05	0.999968
rad37	1.70772e-06	0.999997	1.05181e-05	0.999979
PAH1+H	1.10635e-06	0.999998	6.81419e-06	0.999986
rad70	1.04847e-06	0.999999	6.45765e-06	0.999992
rad65	3.08348e-07	0.999999	1.89916e-06	0.999994
rad34	2.42002e-07	1.000000	1.49052e-06	0.999995
rad55	2.29000e-07	1.000000	1.41044e-06	0.999997
rad71	1.90753e-07	1.000000	1.17488e-06	0.999998
rad73	1.56380e-07	1.000000	9.63167e-07	0.999999
rad53	4.44390e-08	1.000000	2.73707e-07	0.999999
rad62	4.00911e-08	1.000000	2.46927e-07	1.000000
rad56	3.57943e-08	1.000000	2.20463e-07	1.000000
PAH8+H	2.43959e-08	1.000000	1.50258e-07	1.000000
rad64	1.92943e-08	1.000000	1.18836e-07	1.000000
rad68syn	1.20123e-08	1.000000	7.39857e-08	1.000000
rad43	8.60713e-09	1.000000	5.30126e-08	1.000000
rad68anti	7.79056e-09	1.000000	4.79832e-08	1.000000
rad72	5.35919e-09	1.000000	3.30080e-08	1.000000
rad40syn	3.52157e-09	1.000000	2.16899e-08	1.000000
rad61	3.50342e-09	1.000000	2.15781e-08	1.000000
rad42	2.39318e-09	1.000000	1.47399e-08	1.000000
rad40anti	2.09783e-09	1.000000	1.29208e-08	1.000000
rad41	5.64325e-10	1.000000	3.47576e-09	1.000000
rad6	7.59604e-14	1.000000	4.67851e-13	1.000000
rad23	3.15789e-15	1.000000	1.94499e-14	1.000000
rad22	5.56063e-16	1.000000	3.42487e-15	1.000000
rad45	5.00907e-16	1.000000	3.08516e-15	1.000000
rad7	2.70054e-16	1.000000	1.66330e-15	1.000000
rad11	2.49387e-16	1.000000	1.53601e-15	1.000000
rad28	1.72237e-16	1.000000	1.06084e-15	1.000000
rad9	1.33104e-16	1.000000	8.19807e-16	1.000000
rad20	1.26283e-16	1.000000	7.77797e-16	1.000000
rad36	8.51411e-17	1.000000	5.24397e-16	1.000000
rad21	6.65178e-17	1.000000	4.09693e-16	1.000000
rad18	5.81036e-17	1.000000	3.57869e-16	1.000000
rad13	1.40334e-17	1.000000	8.64338e-17	1.000000
rad15	6.72941e-18	1.000000	4.14474e-17	1.000000
rad26	4.54711e-18	1.000000	2.80063e-17	1.000000
rad10	2.37769e-18	1.000000	1.46446e-17	1.000000
rad24	1.70134e-18	1.000000	1.04788e-17	1.000000
rad2	1.03383e-18	1.000000	6.36748e-18	1.000000
rad12	4.26945e-19	1.000000	2.62962e-18	1.000000
rad33	3.32918e-19	1.000000	2.05049e-18	1.000000
rad1	2.62779e-19	1.000000	1.61849e-18	1.000000
rad8	1.74118e-19	1.000000	1.07242e-18	1.000000
rad25	1.29129e-19	1.000000	7.95327e-19	1.000000
rad3	8.44323e-20	1.000000	5.20031e-19	1.000000
rad4	5.36109e-20	1.000000	3.30198e-19	1.000000
rad14	5.21560e-21	1.000000	3.21236e-20	1.000000
rad47	2.44663e-21	1.000000	1.50692e-20	1.000000

rad5	1.25555e-21	1.00000	7.73314e-21	1.00000
rad27	9.07042e-22	1.00000	5.58661e-21	1.00000

0.100000000E-06 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.47588e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866428	0.866428	0.00000	0.00000
Indene+H	0.0943885	0.960816	0.706650	0.706650
PhCH2CCH+H	0.0189358	0.979752	0.141765	0.848415
Ph+Allene	0.0101088	0.989861	0.0756807	0.924096
PhCHCCH2+H	0.00579099	0.995652	0.0433549	0.967451
PAH9+H	0.000765251	0.996417	0.00572913	0.973180
PhCCH+CH3	0.000550354	0.996968	0.00412028	0.977300
PAH3+H	0.000526246	0.997494	0.00393980	0.981240
rad19anti	0.000486607	0.997981	0.00364303	0.984883
rad38	0.000411538	0.998392	0.00308103	0.987964
rad30	0.000378289	0.998770	0.00283210	0.990796
PAH7+H	0.000350388	0.999121	0.00262322	0.993419
Ph+MeAc	0.000164748	0.999286	0.00123340	0.994653
rad35	0.000155515	0.999441	0.00116428	0.995817
rad46	0.000120109	0.999561	0.000899212	0.996716
rad50	9.58270e-05	0.999657	0.000717420	0.997434
rad39	7.87039e-05	0.999736	0.000589225	0.998023
rad59	4.92026e-05	0.999785	0.000368361	0.998391
rad60syn	4.01110e-05	0.999825	0.000300295	0.998691
PhCCCH3+H	3.61306e-05	0.999861	0.000270495	0.998962
rad51	2.92772e-05	0.999890	0.000219187	0.999181
rad60anti	2.75040e-05	0.999918	0.000205912	0.999387
rad67	2.43946e-05	0.999942	0.000182633	0.999570
rad19syn	1.17085e-05	0.999954	8.76566e-05	0.999657
rad52	8.84586e-06	0.999963	6.62255e-05	0.999723
PAH10+CH3	7.72771e-06	0.999971	5.78543e-05	0.999781
PhcycC3H3_A+H	7.44556e-06	0.999978	5.57420e-05	0.999837
rad58	5.03691e-06	0.999983	3.77093e-05	0.999875
rad54	4.34710e-06	0.999987	3.25450e-05	0.999907
rad37	3.43690e-06	0.999991	2.57307e-05	0.999933
PAH1+H	2.74924e-06	0.999994	2.05825e-05	0.999954
rad70	2.09354e-06	0.999996	1.56735e-05	0.999969
rad71	1.06961e-06	0.999997	8.00777e-06	0.999977
rad65	8.19688e-07	0.999998	6.13669e-06	0.999983
rad73	7.43910e-07	0.999998	5.56936e-06	0.999989
rad34	5.52321e-07	0.999999	4.13501e-06	0.999993
rad55	3.53324e-07	0.999999	2.64520e-06	0.999996
PAH8+H	1.14510e-07	0.999999	8.57294e-07	0.999997
rad53	9.72438e-08	0.999999	7.28027e-07	0.999997
rad56	9.21215e-08	1.000000	6.89678e-07	0.999998
rad62	6.00485e-08	1.000000	4.49560e-07	0.999999
rad64	5.57952e-08	1.000000	4.17717e-07	0.999999
rad72	4.29765e-08	1.000000	3.21748e-07	0.999999
rad68syn	4.11172e-08	1.000000	3.07828e-07	1.000000
rad68anti	2.65281e-08	1.000000	1.98605e-07	1.000000
rad43	2.20258e-08	1.000000	1.64898e-07	1.000000
rad61	1.54174e-08	1.000000	1.15424e-07	1.000000
rad40syn	1.44056e-08	1.000000	1.07849e-07	1.000000
rad40anti	9.08224e-09	1.000000	6.79952e-08	1.000000
rad42	4.93493e-09	1.000000	3.69459e-08	1.000000
rad41	1.99345e-09	1.000000	1.49241e-08	1.000000
rad6	9.73561e-15	1.000000	7.28867e-14	1.000000
rad23	1.70878e-15	1.000000	1.27930e-14	1.000000
rad45	1.66572e-16	1.000000	1.24706e-15	1.000000
rad22	1.52678e-16	1.000000	1.14304e-15	1.000000
rad9	6.77035e-17	1.000000	5.06869e-16	1.000000
rad11	5.37257e-17	1.000000	4.02223e-16	1.000000
rad20	5.29552e-17	1.000000	3.96455e-16	1.000000
rad7	4.21463e-17	1.000000	3.15533e-16	1.000000
rad28	3.28595e-17	1.000000	2.46007e-16	1.000000
rad36	2.91187e-17	1.000000	2.18001e-16	1.000000
rad21	2.72287e-17	1.000000	2.03851e-16	1.000000
rad18	1.62503e-17	1.000000	1.21659e-16	1.000000
rad15	3.62730e-18	1.000000	2.71562e-17	1.000000
rad13	3.15022e-18	1.000000	2.35844e-17	1.000000
rad24	9.49359e-19	1.000000	7.10748e-18	1.000000
rad26	6.44777e-19	1.000000	4.82719e-18	1.000000
rad12	3.72963e-19	1.000000	2.79223e-18	1.000000
rad10	2.40007e-19	1.000000	1.79684e-18	1.000000

rad8	2.00223e-19	1.000000	1.49899e-18	1.00000
rad33	1.02784e-19	1.000000	7.69507e-19	1.00000
rad2	9.63944e-20	1.000000	7.21667e-19	1.00000
rad25	5.51560e-20	1.000000	4.12931e-19	1.00000
rad1	2.58949e-20	1.000000	1.93865e-19	1.00000
rad3	1.46313e-20	1.000000	1.09539e-19	1.00000
rad4	9.35110e-21	1.000000	7.00080e-20	1.00000
rad47	6.72667e-21	1.000000	5.03600e-20	1.00000
rad5	1.86946e-21	1.000000	1.39959e-20	1.00000
rad14	1.43912e-21	1.000000	1.07741e-20	1.00000
rad27	2.36914e-22	1.000000	1.77368e-21	1.00000

0.100000000E-06 Pa, 2250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	4.00875e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.878204	0.878204	0.00000	0.00000
Indene+H	0.0703003	0.948504	0.577195	0.577195
PhCH2CCH+H	0.0277459	0.976250	0.227806	0.805001
Ph+Allene	0.0105974	0.986848	0.0870088	0.892010
PhCHCCH2+H	0.00765656	0.994504	0.0628636	0.954873
PAH9+H	0.000941856	0.995446	0.00773304	0.962609
PAH3+H	0.000857236	0.996303	0.00703827	0.969645
rad19anti	0.000629228	0.996932	0.00516623	0.974811
rad38	0.000525523	0.997458	0.00431476	0.979126
PAH7+H	0.000454502	0.997913	0.00373165	0.982857
rad30	0.000417263	0.998330	0.00342591	0.986283
PhCCH+CH3	0.000383697	0.998713	0.00315031	0.989434
rad35	0.000200865	0.998914	0.00164918	0.991083
Ph+MeAc	0.000197882	0.999112	0.00162470	0.992707
rad50	0.000170940	0.999283	0.00140349	0.994111
rad46	0.000166540	0.999450	0.00136737	0.995478
rad39	0.000118806	0.999568	0.000975445	0.996454
rad59	7.57691e-05	0.999644	0.000622096	0.997076
rad51	6.22686e-05	0.999707	0.000511251	0.997587
rad60syn	5.44510e-05	0.999761	0.000447066	0.998034
PhCCCH3+H	5.15901e-05	0.999813	0.000423577	0.998458
rad67	4.61782e-05	0.999859	0.000379142	0.998837
rad60anti	3.79865e-05	0.999897	0.000311885	0.999149
PAH10+CH3	1.71933e-05	0.999914	0.000141164	0.999290
rad52	1.70844e-05	0.999931	0.000140270	0.999430
rad19syn	1.63932e-05	0.999947	0.000134595	0.999565
PhcycC3H3_A+H	1.10275e-05	0.999958	9.05407e-05	0.999655
rad58	1.00660e-05	0.999969	8.26458e-05	0.999738
PAH1+H	5.96728e-06	0.999974	4.89939e-05	0.999787
rad37	5.72356e-06	0.999980	4.69928e-05	0.999834
rad54	5.39698e-06	0.999986	4.43115e-05	0.999878
rad71	3.95691e-06	0.999990	3.24879e-05	0.999911
rad70	3.69403e-06	0.999993	3.03296e-05	0.999941
rad73	2.41459e-06	0.999996	1.98248e-05	0.999961
rad65	1.68525e-06	0.999997	1.38367e-05	0.999975
rad34	1.08371e-06	0.999998	8.89771e-06	0.999984
rad55	4.74067e-07	0.999999	3.89229e-06	0.999988
PAH8+H	3.91946e-07	0.999999	3.21804e-06	0.999991
rad72	2.09318e-07	1.000000	1.71859e-06	0.999992
rad56	1.86168e-07	1.000000	1.52852e-06	0.999994
rad53	1.73183e-07	1.000000	1.42191e-06	0.999995
rad64	1.33616e-07	1.000000	1.09704e-06	0.999997
rad68syn	1.10265e-07	1.000000	9.05322e-07	0.999997
rad62	9.48259e-08	1.000000	7.78561e-07	0.999998
rad68anti	7.08807e-08	1.000000	5.81961e-07	0.999999
rad43	4.82400e-08	1.000000	3.96071e-07	0.999999
rad61	4.62524e-08	1.000000	3.79752e-07	1.000000
rad40syn	4.43238e-08	1.000000	3.63917e-07	1.000000
rad40anti	2.91751e-08	1.000000	2.39540e-07	1.000000
rad42	1.00367e-08	1.000000	8.24055e-08	1.000000
rad41	5.35211e-09	1.000000	4.39431e-08	1.000000
rad6	1.23986e-15	1.000000	1.01798e-14	1.000000
rad23	4.71797e-16	1.000000	3.87365e-15	1.000000
rad45	6.43386e-17	1.000000	5.28247e-16	1.000000
rad22	3.96240e-17	1.000000	3.25330e-16	1.000000
rad9	3.51575e-17	1.000000	2.88658e-16	1.000000
rad20	2.60557e-17	1.000000	2.13928e-16	1.000000
rad11	1.62856e-17	1.000000	1.33711e-16	1.000000
rad21	1.30011e-17	1.000000	1.06745e-16	1.000000
rad36	1.15181e-17	1.000000	9.45687e-17	1.000000

rad7	9.44108e-18	1.00000	7.75152e-17	1.00000
rad18	6.17423e-18	1.00000	5.06931e-17	1.00000
rad28	5.07623e-18	1.00000	4.16780e-17	1.00000
rad15	2.10988e-18	1.00000	1.73230e-17	1.00000
rad13	8.56528e-19	1.00000	7.03246e-18	1.00000
rad24	5.70002e-19	1.00000	4.67996e-18	1.00000
rad12	3.05351e-19	1.00000	2.50707e-18	1.00000
rad26	2.24971e-19	1.00000	1.84711e-18	1.00000
rad8	2.16858e-19	1.00000	1.78050e-18	1.00000
rad10	7.19852e-20	1.00000	5.91029e-19	1.00000
rad33	3.63727e-20	1.00000	2.98636e-19	1.00000
rad25	2.84538e-20	1.00000	2.33618e-19	1.00000
rad2	1.46214e-20	1.00000	1.20048e-19	1.00000
rad47	1.41374e-20	1.00000	1.16074e-19	1.00000
rad1	4.31729e-21	1.00000	3.54468e-20	1.00000
rad3	3.18704e-21	1.00000	2.61669e-20	1.00000
rad5	2.08608e-21	1.00000	1.71276e-20	1.00000
rad4	2.02996e-21	1.00000	1.66668e-20	1.00000
rad14	5.33284e-22	1.00000	4.37849e-21	1.00000
rad27	1.32553e-22	1.00000	1.08832e-21	1.00000

0.100000000E-06 Pa, 2500.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	5.32896e-13 (1.00)		6.40311e-14 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.879843	0.879843	0.00000	0.00000
Indene+H	0.0541638	0.934007	0.450777	0.450777
PhCH2CCH+H	0.0379681	0.971975	0.315989	0.766766
Ph+Allene	0.0112444	0.983219	0.0935810	0.860347
PhCHCCH2+H	0.00999485	0.993214	0.0831818	0.943529
PAH3+H	0.00124356	0.994458	0.0103495	0.953878
PAH9+H	0.00106545	0.995523	0.00886715	0.962745
rad19anti	0.000731028	0.996254	0.00608396	0.968829
rad38	0.000614393	0.996869	0.00511327	0.973943
PAH7+H	0.000586817	0.997455	0.00488376	0.978826
rad30	0.000442203	0.997898	0.00368022	0.982507
PhCCH+CH3	0.000309130	0.998207	0.00257273	0.985079
rad50	0.000261677	0.998468	0.00217780	0.987257
Ph+MeAc	0.000256973	0.998725	0.00213865	0.989396
rad35	0.000242192	0.998968	0.00201564	0.991411
rad46	0.000207878	0.999175	0.00173006	0.993142
rad39	0.000175772	0.999351	0.00146285	0.994604
rad51	0.000109649	0.999461	0.000912547	0.995517
rad59	0.000104825	0.999566	0.000872406	0.996389
rad67	7.34547e-05	0.999639	0.000611325	0.997001
PhCCCH3+H	7.22810e-05	0.999711	0.000601557	0.997602
rad60syn	6.81857e-05	0.999780	0.000567474	0.998170
rad60anti	4.82378e-05	0.999828	0.000401457	0.998571
PAH10+CH3	3.08998e-05	0.999859	0.000257163	0.998828
rad52	2.78077e-05	0.999887	0.000231429	0.999060
rad19syn	2.34810e-05	0.999910	0.000195420	0.999255
rad58	1.71635e-05	0.999927	0.000142842	0.999398
PhcycC3H3_A+H	1.49440e-05	0.999942	0.000124371	0.999522
PAH1+H	1.13017e-05	0.999953	9.40581e-05	0.999616
rad71	1.08628e-05	0.999964	9.04053e-05	0.999707
rad37	8.12868e-06	0.999972	6.76507e-05	0.999774
rad54	6.28002e-06	0.999979	5.22652e-05	0.999827
rad70	5.97099e-06	0.999985	4.96933e-05	0.999876
rad73	5.95726e-06	0.999991	4.95791e-05	0.999926
rad65	2.87595e-06	0.999994	2.39350e-05	0.999950
rad34	1.90624e-06	0.999995	1.58647e-05	0.999966
PAH8+H	1.06524e-06	0.999997	8.86540e-06	0.999975
rad72	7.14903e-07	0.999997	5.94976e-06	0.999981
rad55	5.87553e-07	0.999998	4.88989e-06	0.999986
rad56	3.21872e-07	0.999998	2.67877e-06	0.999988
rad64	2.70855e-07	0.999998	2.25419e-06	0.999990
rad53	2.70820e-07	0.999999	2.25389e-06	0.999993
rad68syn	2.47504e-07	0.999999	2.05985e-06	0.999995
rad68anti	1.58683e-07	0.999999	1.32064e-06	0.999996
rad62	1.55148e-07	0.999999	1.29122e-06	0.999997
rad40syn	1.10734e-07	0.999999	9.21579e-07	0.999998
rad61	1.05680e-07	0.999999	8.79519e-07	0.999999
rad43	8.79692e-08	1.000000	7.32121e-07	1.000000
rad40anti	7.53435e-08	1.000000	6.27044e-07	1.000000
rad42	1.97239e-08	1.000000	1.64152e-07	1.000000
rad41	1.13877e-08	1.000000	9.47734e-08	1.000000

rad6	2.24920e-16	1.000000	1.87189e-15	1.00000
rad23	1.44860e-16	1.000000	1.20559e-15	1.00000
rad45	2.79853e-17	1.000000	2.32907e-16	1.00000
rad9	1.86938e-17	1.000000	1.55578e-16	1.00000
rad20	1.43940e-17	1.000000	1.19794e-16	1.00000
rad22	1.35197e-17	1.000000	1.12517e-16	1.00000
rad21	6.94971e-18	1.000000	5.78387e-17	1.00000
rad11	6.25790e-18	1.000000	5.20812e-17	1.00000
rad36	5.10699e-18	1.000000	4.25028e-17	1.00000
rad18	2.77736e-18	1.000000	2.31145e-17	1.00000
rad7	2.64628e-18	1.000000	2.20236e-17	1.00000
rad15	1.25424e-18	1.000000	1.04384e-17	1.00000
rad28	1.20785e-18	1.000000	1.00523e-17	1.00000
rad24	3.60418e-19	1.000000	2.99957e-18	1.00000
rad13	2.74546e-19	1.000000	2.28490e-18	1.00000
rad12	2.40046e-19	1.000000	1.99778e-18	1.00000
rad8	2.25267e-19	1.000000	1.87478e-18	1.00000
rad26	1.24982e-19	1.000000	1.04016e-18	1.00000
rad10	4.03082e-20	1.000000	3.35463e-19	1.00000
rad47	2.44566e-20	1.000000	2.03539e-19	1.00000
rad25	1.71221e-20	1.000000	1.42498e-19	1.00000
rad33	1.46760e-20	1.000000	1.22141e-19	1.00000
rad2	4.51653e-21	1.000000	3.75887e-20	1.00000
rad5	2.16420e-21	1.000000	1.80115e-20	1.00000
rad1	1.54067e-21	1.000000	1.28222e-20	1.00000
rad3	8.70402e-22	1.000000	7.24390e-21	1.00000
rad4	5.46245e-22	1.000000	4.54611e-21	1.00000
rad14	2.68051e-22	1.000000	2.23085e-21	1.00000
rad27	1.07389e-22	1.000000	8.93744e-22	1.00000

0.100000000E-06 Pa, 2750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.05113e-13 (1.00)	1.00487e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.875189	0.875189	0.00000	0.00000
PhCH2CCH+H	0.0492371	0.924426	0.394492	0.394492
Indene+H	0.0427171	0.967143	0.342254	0.736746
PhCHCCH2+H	0.0126523	0.979795	0.101371	0.838117
Ph+Allene	0.0121360	0.991931	0.0972347	0.935352
PAH3+H	0.00165412	0.993586	0.0132530	0.948605
PAH9+H	0.00112924	0.994715	0.00904761	0.957652
rad19anti	0.000790044	0.995505	0.00632991	0.963982
PAH7+H	0.000729333	0.996234	0.00584349	0.969826
rad38	0.000670521	0.996905	0.00537228	0.975198
rad30	0.000454283	0.997359	0.00363976	0.978838
rad50	0.000356822	0.997716	0.00285889	0.981697
Ph+MeAc	0.000331297	0.998047	0.00265438	0.984351
PhCCH+CH3	0.000293338	0.998340	0.00235025	0.986701
rad35	0.000276886	0.998617	0.00221844	0.988920
rad39	0.000242689	0.998860	0.00194445	0.990864
rad46	0.000239377	0.999099	0.00191791	0.992782
rad51	0.000167552	0.999267	0.00134245	0.994125
rad59	0.000133898	0.999401	0.00107280	0.995197
rad67	0.000103303	0.999504	0.000827674	0.996025
PhCCCH3+H	9.47597e-05	0.999599	0.000759224	0.996784
rad60syn	8.03400e-05	0.999679	0.000643692	0.997428
rad60anti	5.74980e-05	0.999737	0.000460680	0.997889
PAH10+CH3	4.75540e-05	0.999784	0.000381007	0.998270
rad52	3.97965e-05	0.999824	0.000318854	0.998588
rad19syn	3.43481e-05	0.999858	0.000275200	0.998864
rad58	2.60271e-05	0.999885	0.000208532	0.999072
rad71	2.39120e-05	0.999908	0.000191585	0.999264
PhcycC3H3_A+H	1.91124e-05	0.999928	0.000153131	0.999417
PAH1+H	1.89313e-05	0.999946	0.000151679	0.999569
rad73	1.19963e-05	0.999958	9.61159e-05	0.999665
rad37	1.02458e-05	0.999969	8.20902e-05	0.999747
rad70	8.97456e-06	0.999978	7.19051e-05	0.999819
rad54	7.04852e-06	0.999985	5.64734e-05	0.999875
rad65	4.27356e-06	0.999989	3.42402e-05	0.999909
rad34	3.06724e-06	0.999992	2.45750e-05	0.999934
PAH8+H	2.42508e-06	0.999995	1.94299e-05	0.999953
rad72	1.88022e-06	0.999996	1.50645e-05	0.999968
rad55	6.94535e-07	0.999997	5.56468e-06	0.999974
rad56	5.00306e-07	0.999998	4.00850e-06	0.999978
rad68syn	4.83458e-07	0.999998	3.87351e-06	0.999982
rad64	4.76899e-07	0.999999	3.82096e-06	0.999986

rad53	3.88200e-07	0.999999	3.11030e-06	0.999989
rad68anti	3.09361e-07	0.999999	2.47863e-06	0.999991
rad62	2.47711e-07	0.999999	1.98468e-06	0.999993
rad40syn	2.35491e-07	1.000000	1.88678e-06	0.999995
rad61	1.98411e-07	1.000000	1.58969e-06	0.999997
rad40anti	1.64464e-07	1.000000	1.31770e-06	0.999998
rad43	1.38326e-07	1.000000	1.10828e-06	0.999999
rad42	3.59374e-08	1.000000	2.87934e-07	1.000000
rad41	2.03340e-08	1.000000	1.62918e-07	1.000000
rad23	5.31481e-17	1.000000	4.25828e-16	1.000000
rad6	5.30301e-17	1.000000	4.24882e-16	1.000000
rad45	1.33239e-17	1.000000	1.06753e-16	1.000000
rad9	1.02205e-17	1.000000	8.18878e-17	1.000000
rad20	8.68783e-18	1.000000	6.96077e-17	1.000000
rad22	5.53887e-18	1.000000	4.43780e-17	1.000000
rad21	4.05053e-18	1.000000	3.24532e-17	1.000000
rad11	2.91949e-18	1.000000	2.33912e-17	1.000000
rad36	2.46984e-18	1.000000	1.97886e-17	1.000000
rad18	1.40097e-18	1.000000	1.12247e-17	1.000000
rad7	8.87325e-19	1.000000	7.10933e-18	1.000000
rad15	7.56444e-19	1.000000	6.06070e-18	1.000000
rad28	4.35932e-19	1.000000	3.49273e-18	1.000000
rad24	2.36701e-19	1.000000	1.89647e-18	1.000000
rad8	2.27048e-19	1.000000	1.81913e-18	1.000000
rad12	1.84640e-19	1.000000	1.47935e-18	1.000000
rad13	1.02991e-19	1.000000	8.25175e-19	1.000000
rad26	7.74805e-20	1.000000	6.20781e-19	1.000000
rad47	3.65965e-20	1.000000	2.93215e-19	1.000000
rad10	2.66186e-20	1.000000	2.13271e-19	1.000000
rad25	1.16293e-20	1.000000	9.31748e-20	1.000000
rad33	6.71473e-21	1.000000	5.37991e-20	1.000000
rad2	2.31701e-21	1.000000	1.85641e-20	1.000000
rad5	2.15479e-21	1.000000	1.72644e-20	1.000000
rad1	9.06205e-22	1.000000	7.26061e-21	1.000000
rad3	2.95709e-22	1.000000	2.36925e-21	1.000000
rad4	1.80962e-22	1.000000	1.44989e-21	1.000000
rad14	1.77541e-22	1.000000	1.42248e-21	1.000000
rad27	9.32033e-23	1.000000	7.46754e-22	1.000000

0.100000000E-06 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15309e-12 (1.00)	1.53862e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866566	0.866566	0.00000	0.00000
PhCH2CCH+H	0.0611725	0.927738	0.458447	0.458447
Indene+H	0.0342672	0.962006	0.256810	0.715257
PhCHCCH2+H	0.0154790	0.977485	0.116005	0.831262
Ph+Allene	0.0132660	0.990751	0.0994201	0.930682
PAH3+H	0.00205938	0.992810	0.0154337	0.946116
PAH9+H	0.00113813	0.993948	0.00852950	0.954645
PAH7+H	0.000866135	0.994814	0.00649110	0.961136
rad19anti	0.000812999	0.995627	0.00609288	0.967229
rad38	0.000693215	0.996321	0.00519518	0.972424
rad30	0.000455427	0.996776	0.00341312	0.975838
rad50	0.000445147	0.997221	0.00333608	0.979174
Ph+MeAc	0.000411378	0.997633	0.00308300	0.982257
PhCCH+CH3	0.000319072	0.997952	0.00239123	0.984648
rad39	0.000311351	0.998263	0.00233337	0.986981
rad35	0.000303822	0.998567	0.00227694	0.989258
rad46	0.000258929	0.998826	0.00194050	0.991199
rad51	0.000229661	0.999055	0.00172116	0.992920
rad59	0.000160966	0.999216	0.00120633	0.994126
rad67	0.000132859	0.999349	0.000995686	0.995122
PhCCCH3+H	0.000117527	0.999467	0.000880786	0.996003
rad60syn	9.03378e-05	0.999557	0.000677021	0.996680
PAH10+CH3	6.53522e-05	0.999622	0.000489771	0.997169
rad60anti	6.52879e-05	0.999688	0.000489289	0.997659
rad52	5.15998e-05	0.999739	0.000386706	0.998045
rad19syn	5.01057e-05	0.999789	0.000375508	0.998421
rad71	4.45158e-05	0.999834	0.000333616	0.998755
rad58	3.61220e-05	0.999870	0.000270710	0.999025
PAH1+H	2.86271e-05	0.999899	0.000214541	0.999240
PhcycC3H3_A+H	2.34369e-05	0.999922	0.000175644	0.999415
rad73	2.07080e-05	0.999943	0.000155192	0.999571
rad70	1.26564e-05	0.999955	9.48509e-05	0.999666
rad37	1.18404e-05	0.999967	8.87361e-05	0.999754

rad54	7.74183e-06	0.999975	5.80198e-05	0.999812
rad65	5.71876e-06	0.999981	4.28583e-05	0.999855
PAH8+H	4.80152e-06	0.999986	3.59842e-05	0.999891
rad34	4.57469e-06	0.999990	3.42843e-05	0.999925
rad72	4.05904e-06	0.999994	3.04198e-05	0.999956
rad68syn	8.44302e-07	0.999995	6.32747e-06	0.999962
rad55	7.96394e-07	0.999996	5.96844e-06	0.999968
rad64	7.49015e-07	0.999997	5.61336e-06	0.999974
rad56	7.20451e-07	0.999997	5.39929e-06	0.999979
rad68anti	5.39463e-07	0.999998	4.04291e-06	0.999983
rad53	5.23143e-07	0.999998	3.92061e-06	0.999987
rad40syn	4.40707e-07	0.999999	3.30280e-06	0.999990
rad62	3.72784e-07	0.999999	2.79376e-06	0.999993
rad61	3.22478e-07	0.999999	2.41676e-06	0.999996
rad40anti	3.14359e-07	1.000000	2.35591e-06	0.999998
rad43	1.94896e-07	1.000000	1.46061e-06	0.999999
rad42	5.98145e-08	1.000000	4.48269e-07	1.000000
rad41	3.19484e-08	1.000000	2.39432e-07	1.000000
rad23	2.19120e-17	1.000000	1.64216e-16	1.000000
rad6	1.53209e-17	1.000000	1.14820e-16	1.000000
rad45	6.79750e-18	1.000000	5.09427e-17	1.000000
rad9	5.76643e-18	1.000000	4.32155e-17	1.000000
rad20	5.61879e-18	1.000000	4.21090e-17	1.000000
rad22	2.56754e-18	1.000000	1.92420e-17	1.000000
rad21	2.52565e-18	1.000000	1.89281e-17	1.000000
rad11	1.59312e-18	1.000000	1.19394e-17	1.000000
rad36	1.27639e-18	1.000000	9.56565e-18	1.000000
rad18	7.69597e-19	1.000000	5.76761e-18	1.000000
rad15	4.64693e-19	1.000000	3.48256e-18	1.000000
rad7	3.48726e-19	1.000000	2.61347e-18	1.000000
rad8	2.23533e-19	1.000000	1.67523e-18	1.000000
rad28	2.05574e-19	1.000000	1.54064e-18	1.000000
rad24	1.60028e-19	1.000000	1.19931e-18	1.000000
rad12	1.40784e-19	1.000000	1.05508e-18	1.000000
rad26	4.93142e-20	1.000000	3.69577e-19	1.000000
rad47	4.90428e-20	1.000000	3.67543e-19	1.000000
rad13	4.47285e-20	1.000000	3.35210e-19	1.000000
rad10	1.80870e-20	1.000000	1.35550e-19	1.000000
rad25	8.60189e-21	1.000000	6.44654e-20	1.000000
rad33	3.44368e-21	1.000000	2.58081e-20	1.000000
rad5	2.09154e-21	1.000000	1.56747e-20	1.000000
rad2	1.42548e-21	1.000000	1.06830e-20	1.000000
rad1	6.30583e-22	1.000000	4.72580e-21	1.000000
rad14	1.40237e-22	1.000000	1.05098e-21	1.000000
rad3	1.21823e-22	1.000000	9.12984e-22	1.000000
rad27	8.01836e-23	1.000000	6.00923e-22	1.000000
rad4	7.23748e-23	1.000000	5.42401e-22	1.000000

0.100000000E-06 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.58309e-12 (1.00)	2.28795e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.855476	0.855476	0.00000	0.00000
PhCH2CCH+H	0.0734301	0.928906	0.508082	0.508082
Indene+H	0.0278643	0.956770	0.192800	0.700882
PhCHCCH2+H	0.0183610	0.975131	0.127045	0.827927
Ph+Allene	0.0145940	0.989725	0.100980	0.928907
PAH3+H	0.00243645	0.992162	0.0168585	0.945765
PAH9+H	0.00110339	0.993265	0.00763468	0.953400
PAH7+H	0.000986571	0.994252	0.00682634	0.960227
rad19anti	0.000808911	0.995061	0.00559707	0.965824
rad38	0.000686670	0.995747	0.00475125	0.970575
rad50	0.000518179	0.996266	0.00358542	0.974160
Ph+MeAc	0.000489465	0.996755	0.00338674	0.977547
rad30	0.000447972	0.997203	0.00309964	0.980647
PhCCH+CH3	0.000378211	0.997581	0.00261694	0.983264
rad39	0.000374434	0.997956	0.00259081	0.985854
rad35	0.000323023	0.998279	0.00223508	0.988089
rad51	0.000289245	0.998568	0.00200136	0.990091
rad46	0.000266714	0.998835	0.00184546	0.991936
rad59	0.000184695	0.999019	0.00127795	0.993214
rad67	0.000159865	0.999179	0.00110614	0.994320
PhCCCH3+H	0.000140367	0.999320	0.000971235	0.995292
rad60syn	9.79791e-05	0.999418	0.000677943	0.995970
PAH10+CH3	8.26142e-05	0.999500	0.000571630	0.996541
rad71	7.28074e-05	0.999573	0.000503773	0.997045

rad60anti	7.14060e-05	0.999644	0.000494077	0.997539
rad19syn	7.13406e-05	0.999716	0.000493624	0.998033
rad52	6.19533e-05	0.999778	0.000428671	0.998461
rad58	4.68388e-05	0.999825	0.000324090	0.998785
PAH1+H	3.98744e-05	0.999864	0.000275902	0.999061
rad73	3.17350e-05	0.999896	0.000219583	0.999281
PhcycC3H3_A+H	2.77967e-05	0.999924	0.000192333	0.999473
rad70	1.68825e-05	0.999941	0.000116814	0.999590
rad37	1.28499e-05	0.999954	8.89115e-05	0.999679
PAH8+H	8.50457e-06	0.999962	5.88453e-05	0.999738
rad54	8.38235e-06	0.999971	5.79997e-05	0.999796
rad72	7.52648e-06	0.999978	5.20777e-05	0.999848
rad65	7.06074e-06	0.999985	4.88551e-05	0.999897
rad34	6.39568e-06	0.999992	4.42534e-05	0.999941
rad68syn	1.34606e-06	0.999993	9.31375e-06	0.999950
rad64	1.07438e-06	0.999994	7.43389e-06	0.999958
rad56	9.79690e-07	0.999995	6.77873e-06	0.999965
rad55	8.93999e-07	0.999996	6.18581e-06	0.999971
rad68anti	8.59058e-07	0.999997	5.94405e-06	0.999977
rad40syn	7.44327e-07	0.999997	5.15020e-06	0.999982
rad53	6.73265e-07	0.999998	4.65850e-06	0.999986
rad40anti	5.40357e-07	0.999999	3.73887e-06	0.999990
rad62	5.25220e-07	0.999999	3.63414e-06	0.999994
rad61	4.70536e-07	1.000000	3.25576e-06	0.999997
rad43	2.53715e-07	1.000000	1.75552e-06	0.999999
rad42	9.14458e-08	1.000000	6.32737e-07	0.999999
rad41	4.57450e-08	1.000000	3.16522e-07	1.000000
rad23	9.82219e-18	1.000000	6.79623e-17	1.000000
rad6	5.28260e-18	1.000000	3.65517e-17	1.000000
rad20	3.83869e-18	1.000000	2.65609e-17	1.000000
rad45	3.66253e-18	1.000000	2.53420e-17	1.000000
rad9	3.36424e-18	1.000000	2.32780e-17	1.000000
rad21	1.66173e-18	1.000000	1.14980e-17	1.000000
rad22	1.30761e-18	1.000000	9.04769e-18	1.000000
rad11	9.80858e-19	1.000000	6.78681e-18	1.000000
rad36	6.94769e-19	1.000000	4.80729e-18	1.000000
rad18	4.51591e-19	1.000000	3.12467e-18	1.000000
rad15	2.91808e-19	1.000000	2.01910e-18	1.000000
rad8	2.15817e-19	1.000000	1.49330e-18	1.000000
rad7	1.57405e-19	1.000000	1.08913e-18	1.000000
rad28	1.13059e-19	1.000000	7.82284e-19	1.000000
rad24	1.10778e-19	1.000000	7.66503e-19	1.000000
rad12	1.07284e-19	1.000000	7.42324e-19	1.000000
rad47	6.03541e-20	1.000000	4.17606e-19	1.000000
rad26	3.17882e-20	1.000000	2.19951e-19	1.000000
rad13	2.21088e-20	1.000000	1.52977e-19	1.000000
rad10	1.23658e-20	1.000000	8.55621e-20	1.000000
rad25	6.72544e-21	1.000000	4.65351e-20	1.000000
rad5	2.00797e-21	1.000000	1.38937e-20	1.000000
rad33	1.94932e-21	1.000000	1.34878e-20	1.000000
rad2	9.35340e-22	1.000000	6.47187e-21	1.000000
rad1	4.62523e-22	1.000000	3.20032e-21	1.000000
rad14	1.20218e-22	1.000000	8.31820e-22	1.000000
rad27	6.78839e-23	1.000000	4.69707e-22	1.000000
rad3	5.91066e-23	1.000000	4.08974e-22	1.000000
rad4	3.41504e-23	1.000000	2.36295e-22	1.000000

0.100000000E-06 Pa, 3500.00000 K

Rate constant	True (fraction)		Effective (fraction)	
Total	2.10046e-12 (1.00)		3.29923e-13 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul
Benzy1+C2H2	0.842928	0.842928	0.00000	0.00000
PhCH2CCH+H	0.0857241	0.928652	0.545762	0.545762
Indene+H	0.0229287	0.951581	0.145976	0.691738
PhCHCCH2+H	0.0212218	0.972803	0.135108	0.826846
Ph+Allene	0.0160719	0.988874	0.102322	0.929168
PAH3+H	0.00277080	0.991645	0.0176403	0.946808
PAH7+H	0.00108547	0.992731	0.00691065	0.953719
PAH9+H	0.00103824	0.993769	0.00660998	0.960329
rad19anti	0.000786012	0.994555	0.00500415	0.965333
rad38	0.000657575	0.995213	0.00418645	0.969520
rad50	0.000571322	0.995784	0.00363732	0.973157
Ph+MeAc	0.000559758	0.996344	0.00356370	0.976721
PhCCH+CH3	0.000466753	0.996810	0.00297158	0.979692
rad30	0.000434295	0.997245	0.00276494	0.982457
rad39	0.000426787	0.997672	0.00271714	0.985174

rad51	0.000340822	0.998012	0.00216985	0.987344
rad35	0.000335221	0.998348	0.00213419	0.989478
rad46	0.000264413	0.998612	0.00168339	0.991162
rad59	0.000204435	0.998816	0.00130154	0.992463
rad67	0.000182834	0.998999	0.00116401	0.993627
PhCCH3+H	0.000163685	0.999163	0.00104210	0.994669
rad71	0.000107601	0.999271	0.000685042	0.995354
rad60syn	0.000103349	0.999374	0.000657969	0.996012
PAH10+CH3	9.81181e-05	0.999472	0.000624669	0.996637
rad19syn	9.79725e-05	0.999570	0.000623742	0.997261
rad60anti	7.58697e-05	0.999646	0.000483025	0.997744
rad52	7.00217e-05	0.999716	0.000445793	0.998190
rad58	5.76196e-05	0.999773	0.000366835	0.998556
PAH1+H	5.20523e-05	0.999826	0.000331391	0.998888
rad73	4.43107e-05	0.999870	0.000282104	0.999170
PhcycC3H3_A+H	3.20633e-05	0.999902	0.000204131	0.999374
rad70	2.14708e-05	0.999923	0.000136694	0.999511
PAH8+H	1.37725e-05	0.999937	8.76827e-05	0.999598
rad37	1.33235e-05	0.999950	8.48243e-05	0.999683
rad72	1.23923e-05	0.999963	7.88958e-05	0.999762
rad54	8.98058e-06	0.999972	5.71749e-05	0.999819
rad34	8.46717e-06	0.999980	5.39063e-05	0.999873
rad65	8.19015e-06	0.999988	5.21426e-05	0.999925
rad68syn	1.99232e-06	0.999990	1.26841e-05	0.999938
rad64	1.43496e-06	0.999992	9.13568e-06	0.999947
rad56	1.27412e-06	0.999993	8.11171e-06	0.999955
rad68anti	1.27030e-06	0.999994	8.08736e-06	0.999963
rad40syn	1.15716e-06	0.999996	7.36708e-06	0.999971
rad55	9.87613e-07	0.999997	6.28764e-06	0.999977
rad40anti	8.52741e-07	0.999997	5.42898e-06	0.999982
rad53	8.35966e-07	0.999998	5.32218e-06	0.999988
rad62	6.97360e-07	0.999999	4.43975e-06	0.999992
rad61	6.32568e-07	1.000000	4.02725e-06	0.999996
rad43	3.12012e-07	1.000000	1.98643e-06	0.999998
rad42	1.30122e-07	1.000000	8.28424e-07	0.999999
rad41	6.11800e-08	1.000000	3.89503e-07	0.999999
rad23	4.70388e-18	1.000000	2.99472e-17	0.999999
rad20	2.74120e-18	1.000000	1.74519e-17	0.999999
rad6	2.12820e-18	1.000000	1.35492e-17	0.999999
rad45	2.06276e-18	1.000000	1.31325e-17	0.999999
rad9	2.03025e-18	1.000000	1.29256e-17	0.999999
rad21	1.14208e-18	1.000000	7.27102e-18	0.999999
rad22	7.18391e-19	1.000000	4.57364e-18	0.999999
rad11	6.60781e-19	1.000000	4.20686e-18	0.999999
rad36	3.94285e-19	1.000000	2.51022e-18	0.999999
rad18	2.79268e-19	1.000000	1.77796e-18	0.999999
rad8	2.04865e-19	1.000000	1.30427e-18	0.999999
rad15	1.87604e-19	1.000000	1.19438e-18	0.999999
rad12	8.20876e-20	1.000000	5.22611e-19	0.999999
rad7	7.97836e-20	1.000000	5.07942e-19	0.999999
rad24	7.82702e-20	1.000000	4.98307e-19	0.999999
rad47	6.94994e-20	1.000000	4.42468e-19	0.999999
rad28	6.78732e-20	1.000000	4.32115e-19	0.999999
rad26	2.07559e-20	1.000000	1.32143e-19	0.999999
rad13	1.21831e-20	1.000000	7.75639e-20	0.999999
rad10	8.52033e-21	1.000000	5.42447e-20	0.999999
rad25	5.44463e-21	1.000000	3.46632e-20	0.999999
rad5	1.92213e-21	1.000000	1.22373e-20	0.999999
rad33	1.19819e-21	1.000000	7.62829e-21	0.999999
rad2	6.39728e-22	1.000000	4.07283e-21	0.999999
rad1	3.47051e-22	1.000000	2.20950e-21	0.999999
rad14	1.06170e-22	1.000000	6.75934e-22	0.999999
rad27	5.69300e-23	1.000000	3.62445e-22	0.999999
rad3	3.26514e-23	1.000000	2.07875e-22	0.999999
rad4	1.84664e-23	1.000000	1.17566e-22	0.999999

0.100000000E-06 Pa, 3750.00000 K

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

Total | 2.70978e-12 (1.00) | 4.61708e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829614	0.829614	0.00000	0.00000
PhCH2CCH+H	0.0978316	0.927446	0.574175	0.574175
PhCHCCH2+H	0.0240141	0.951460	0.140939	0.715114
Indene+H	0.0190788	0.970538	0.111974	0.827088
Ph+Allene	0.0176550	0.988193	0.103617	0.930705
PAH3+H	0.00305565	0.991249	0.0179337	0.948639

PAH7+H	0.00116197	0.992411	0.00681959	0.955458
PAH9+H	0.000955042	0.993366	0.00560515	0.961063
rad19anti	0.000750872	0.994117	0.00440688	0.965470
Ph+MeAc	0.000618509	0.994736	0.00363004	0.969100
rad38	0.000613193	0.995349	0.00359884	0.972699
rad50	0.000603635	0.995952	0.00354274	0.976242
PhCCH+CH3	0.000581835	0.996534	0.00341479	0.979657
rad39	0.000465790	0.997000	0.00273373	0.982390
rad30	0.000416539	0.997417	0.00244467	0.984835
rad51	0.000380994	0.997798	0.00223606	0.987071
rad35	0.000341508	0.998139	0.00200431	0.989075
rad46	0.000254425	0.998393	0.00149322	0.990569
rad59	0.000220084	0.998614	0.00129168	0.991860
rad67	0.000201013	0.998815	0.00117975	0.993040
PhCCCH3+H	0.000187990	0.999003	0.00110331	0.994143
rad71	0.000146780	0.999149	0.000861455	0.995005
rad19syn	0.000129261	0.999279	0.000758633	0.995764
PAH10+CH3	0.000111172	0.999390	0.000652468	0.996416
rad60syn	0.000106707	0.999496	0.000626263	0.997042
rad60anti	7.88382e-05	0.999575	0.000462703	0.997505
rad52	7.54521e-05	0.999651	0.000442829	0.997948
rad58	6.80261e-05	0.999719	0.000399246	0.998347
PAH1+H	6.45813e-05	0.999783	0.000379028	0.998726
rad73	5.74878e-05	0.999841	0.000337397	0.999063
PhcycC3H3_A+H	3.61213e-05	0.999877	0.000211996	0.999275
rad70	2.62309e-05	0.999903	0.000153949	0.999429
PAH8+H	2.07420e-05	0.999924	0.000121735	0.999551
rad72	1.85748e-05	0.999943	0.000109016	0.999660
rad37	1.33636e-05	0.999956	7.84314e-05	0.999739
rad34	1.07116e-05	0.999967	6.28665e-05	0.999801
rad54	9.53969e-06	0.999976	5.59886e-05	0.999857
rad65	9.05125e-06	0.999985	5.31219e-05	0.999911
rad68syn	2.77520e-06	0.999988	1.62877e-05	0.999927
rad64	1.81236e-06	0.999990	1.06367e-05	0.999938
rad68anti	1.76807e-06	0.999992	1.03768e-05	0.999948
rad40syn	1.68193e-06	0.999993	9.87130e-06	0.999958
rad56	1.59874e-06	0.999995	9.38301e-06	0.999967
rad40anti	1.25564e-06	0.999996	7.36935e-06	0.999975
rad55	1.07703e-06	0.999997	6.32112e-06	0.999981
rad53	1.00840e-06	0.999998	5.91834e-06	0.999987
rad62	8.81786e-07	0.999999	5.17522e-06	0.999992
rad61	7.98455e-07	1.000000	4.68615e-06	0.999997
rad43	3.67979e-07	1.000000	2.15967e-06	0.999999
rad42	1.74775e-07	1.000000	1.02576e-06	1.000000
rad41	7.77074e-08	1.000000	4.56066e-07	1.000000
rad23	2.37942e-18	1.000000	1.39649e-17	1.000000
rad20	2.02983e-18	1.000000	1.19131e-17	1.000000
rad9	1.26598e-18	1.000000	7.43005e-18	1.000000
rad45	1.20296e-18	1.000000	7.06018e-18	1.000000
rad6	9.79646e-19	1.000000	5.74955e-18	1.000000
rad21	8.13804e-19	1.000000	4.77623e-18	1.000000
rad11	4.75768e-19	1.000000	2.79229e-18	1.000000
rad22	4.20238e-19	1.000000	2.46638e-18	1.000000
rad36	2.31389e-19	1.000000	1.35802e-18	1.000000
rad8	1.91572e-19	1.000000	1.12434e-18	1.000000
rad18	1.80283e-19	1.000000	1.05808e-18	1.000000
rad15	1.23473e-19	1.000000	7.24667e-19	1.000000
rad47	7.59707e-20	1.000000	4.45873e-19	1.000000
rad12	6.32118e-20	1.000000	3.70991e-19	1.000000
rad24	5.63439e-20	1.000000	3.30683e-19	1.000000
rad7	4.44220e-20	1.000000	2.60713e-19	1.000000
rad28	4.30194e-20	1.000000	2.52482e-19	1.000000
rad26	1.37558e-20	1.000000	8.07329e-20	1.000000
rad13	7.33170e-21	1.000000	4.30298e-20	1.000000
rad10	5.95129e-21	1.000000	3.49282e-20	1.000000
rad25	4.50617e-21	1.000000	2.64468e-20	1.000000
rad5	1.83996e-21	1.000000	1.07988e-20	1.000000
rad33	7.87849e-22	1.000000	4.62390e-21	1.000000
rad2	4.57549e-22	1.000000	2.68536e-21	1.000000
rad1	2.64192e-22	1.000000	1.55055e-21	1.000000
rad14	9.45605e-23	1.000000	5.54977e-22	1.000000
rad27	4.76374e-23	1.000000	2.79584e-22	1.000000
rad3	1.99099e-23	1.000000	1.16851e-22	1.000000
rad4	1.11080e-23	1.000000	6.51931e-23	1.000000

0.100000000E-06 Pa, 4000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28297e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.816017	0.816017	0.00000	0.00000
PhCH2CCH+H	0.109584	0.925601	0.595618	0.595618
PhCHCCH2+H	0.0267098	0.952311	0.145175	0.740793
Ph+Allene	0.0193046	0.971615	0.104926	0.845719
Indene+H	0.0160484	0.987664	0.0872277	0.932947
PAH3+H	0.00329013	0.990954	0.0178828	0.950829
PAH7+H	0.00121791	0.992172	0.00661968	0.957449
PAH9+H	0.000864009	0.993036	0.00469613	0.962145
PhCCH+CH3	0.000720156	0.993756	0.00391424	0.966060
rad19anti	0.000708493	0.994464	0.00385085	0.969910
Ph+MeAc	0.000663934	0.995128	0.00360866	0.973519
rad50	0.000616859	0.995745	0.00335280	0.976872
rad38	0.000560144	0.996305	0.00304454	0.979916
rad39	0.000491035	0.996796	0.00266891	0.982585
rad51	0.000408498	0.997205	0.00222030	0.984806
rad30	0.000396478	0.997601	0.00215497	0.986961
rad35	0.000343096	0.997945	0.00186482	0.988825
rad46	0.000239253	0.998184	0.00130041	0.990126
rad59	0.000231903	0.998416	0.00126046	0.991386
rad67	0.000214260	0.998630	0.00116456	0.992551
PhCCCH3+H	0.000213580	0.998844	0.00116087	0.993712
rad71	0.000187844	0.999031	0.00102098	0.994733
rad19syn	0.000163941	0.999195	0.000891067	0.995624
PAH10+CH3	0.000121536	0.999317	0.000660582	0.996284
rad60syn	0.000108396	0.999425	0.000589161	0.996873
rad60anti	8.05427e-05	0.999506	0.000437772	0.997311
rad52	7.82960e-05	0.999584	0.000425560	0.997737
rad58	7.77572e-05	0.999662	0.000422632	0.998159
PAH1+H	7.70001e-05	0.999739	0.000418517	0.998578
rad73	7.03552e-05	0.999809	0.000382400	0.998960
PhcycC3H3_A+H	3.98813e-05	0.999849	0.000216766	0.999177
rad70	3.09908e-05	0.999880	0.000168444	0.999346
PAH8+H	2.94355e-05	0.999910	0.000159990	0.999506
rad72	2.58284e-05	0.999935	0.000140384	0.999646
rad37	1.30848e-05	0.999948	7.11194e-05	0.999717
rad34	1.30497e-05	0.999961	7.09289e-05	0.999788
rad54	1.00584e-05	0.999972	5.46703e-05	0.999843
rad65	9.63686e-06	0.999981	5.23790e-05	0.999895
rad68syn	3.67778e-06	0.999985	1.99898e-05	0.999915
rad68anti	2.34154e-06	0.999987	1.27269e-05	0.999928
rad40syn	2.31359e-06	0.999990	1.25750e-05	0.999940
rad64	2.19077e-06	0.999992	1.19074e-05	0.999952
rad56	1.94741e-06	0.999994	1.05847e-05	0.999963
rad40anti	1.74691e-06	0.999995	9.49492e-06	0.999972
rad53	1.18744e-06	0.999997	6.45406e-06	0.999979
rad55	1.16170e-06	0.999998	6.31418e-06	0.999985
rad62	1.07271e-06	0.999999	5.83046e-06	0.999991
rad61	9.59661e-07	1.000000	5.21602e-06	0.999996
rad43	4.20278e-07	1.00000	2.28433e-06	0.999998
rad42	2.24298e-07	1.00000	1.21912e-06	1.000000
rad41	9.47630e-08	1.00000	5.15063e-07	1.00000
rad20	1.54922e-18	1.00000	8.42046e-18	1.00000
rad23	1.26119e-18	1.00000	6.85494e-18	1.00000
rad9	8.14103e-19	1.00000	4.42487e-18	1.00000
rad45	7.23642e-19	1.00000	3.93319e-18	1.00000
rad21	5.97853e-19	1.00000	3.24950e-18	1.00000
rad6	5.03877e-19	1.00000	2.73871e-18	1.00000
rad11	3.59957e-19	1.00000	1.95647e-18	1.00000
rad22	2.59193e-19	1.00000	1.40879e-18	1.00000
rad8	1.76788e-19	1.00000	9.60889e-19	1.00000
rad36	1.39784e-19	1.00000	7.59765e-19	1.00000
rad18	1.20669e-19	1.00000	6.55872e-19	1.00000
rad15	8.31114e-20	1.00000	4.51733e-19	1.00000
rad47	7.97227e-20	1.00000	4.33315e-19	1.00000
rad12	4.90407e-20	1.00000	2.66550e-19	1.00000
rad24	4.12849e-20	1.00000	2.24395e-19	1.00000
rad28	2.83270e-20	1.00000	1.53965e-19	1.00000
rad7	2.66536e-20	1.00000	1.44870e-19	1.00000
rad26	9.26846e-21	1.00000	5.03766e-20	1.00000
rad13	4.73267e-21	1.00000	2.57233e-20	1.00000
rad10	4.23764e-21	1.00000	2.30327e-20	1.00000
rad25	3.78502e-21	1.00000	2.05726e-20	1.00000
rad5	1.76141e-21	1.00000	9.57373e-21	1.00000
rad33	5.47163e-22	1.00000	2.97398e-21	1.00000
rad2	3.43906e-22	1.00000	1.86922e-21	1.00000
rad1	2.03371e-22	1.00000	1.10538e-21	1.00000
rad14	8.43867e-23	1.00000	4.58665e-22	1.00000

rad27	3.99728e-23	1.00000	2.17263e-22	1.00000
rad3	1.31271e-23	1.00000	7.13495e-23	1.00000
rad4	7.26951e-24	1.00000	3.95118e-23	1.00000

0.100000000E-07 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999980	0.999980	0.999981	0.999981
rad6	1.94358e-05	0.999999	1.94358e-05	1.00000
Benzyl+C2H2	8.12017e-07	1.00000	0.00000	1.00000
rad2	6.85642e-09	1.00000	6.85643e-09	1.00000
rad7	1.40148e-09	1.00000	1.40148e-09	1.00000
rad1	4.33342e-10	1.00000	4.33343e-10	1.00000
rad10	3.48405e-10	1.00000	3.48405e-10	1.00000
rad11	3.42413e-10	1.00000	3.42413e-10	1.00000
rad3	4.66919e-11	1.00000	4.66919e-11	1.00000
rad4	2.36052e-11	1.00000	2.36052e-11	1.00000
rad13	7.79185e-12	1.00000	7.79186e-12	1.00000
rad33	1.47321e-14	1.00000	1.47321e-14	1.00000
rad20	1.15855e-16	1.00000	1.15855e-16	1.00000
rad21	7.22593e-17	1.00000	7.22593e-17	1.00000
rad28	3.06625e-17	1.00000	3.06625e-17	1.00000
rad35	2.38079e-17	1.00000	2.38079e-17	1.00000
rad26	1.31183e-18	1.00000	1.31183e-18	1.00000
PAH9+H	1.29896e-18	1.00000	1.29896e-18	1.00000
rad18	5.44938e-19	1.00000	5.44939e-19	1.00000
rad31	1.28733e-19	1.00000	1.28733e-19	1.00000
rad22	3.85281e-20	1.00000	3.85281e-20	1.00000
rad23	2.17436e-20	1.00000	2.17436e-20	1.00000
rad38	3.05499e-21	1.00000	3.05499e-21	1.00000
rad30	1.64849e-21	1.00000	1.64850e-21	1.00000
rad27	5.35674e-22	1.00000	5.35675e-22	1.00000
rad45	1.38036e-22	1.00000	1.38036e-22	1.00000
PhCHCCH2+H	4.68650e-23	1.00000	4.68650e-23	1.00000
rad36	8.59858e-24	1.00000	8.59859e-24	1.00000
rad24	2.32442e-24	1.00000	2.32442e-24	1.00000
PhCCH+CH3	1.54839e-24	1.00000	1.54839e-24	1.00000
PhCCH3+H	2.21776e-25	1.00000	2.21776e-25	1.00000
rad15	1.37216e-25	1.00000	1.37217e-25	1.00000
rad25	1.07310e-26	1.00000	1.07310e-26	1.00000
rad14	7.16033e-28	1.00000	7.16033e-28	1.00000
rad8	8.31652e-31	1.00000	8.31653e-31	1.00000
rad46	4.94932e-33	1.00000	4.94932e-33	1.00000
rad9	2.51311e-33	1.00000	2.51311e-33	1.00000
PAH7+H	3.26938e-34	1.00000	3.26938e-34	1.00000
Ph+MeAc	3.66125e-35	1.00000	3.66125e-35	1.00000
rad12	1.31917e-35	1.00000	1.31917e-35	1.00000
rad39	6.99002e-37	1.00000	6.99003e-37	1.00000
Ph+Allene	1.68449e-39	1.00000	1.68450e-39	1.00000
rad60syn	1.51575e-43	1.00000	1.51576e-43	1.00000
rad60anti	1.57098e-45	1.00000	1.57098e-45	1.00000
PhCH2CCH+H	2.61654e-47	1.00000	2.61655e-47	1.00000
rad37	2.25688e-48	1.00000	2.25688e-48	1.00000
rad5	1.49475e-51	1.00000	1.49475e-51	1.00000
PAH3+H	2.66369e-56	1.00000	2.66369e-56	1.00000
rad59	1.42636e-56	1.00000	1.42636e-56	1.00000
rad50	5.78550e-57	1.00000	5.78551e-57	1.00000
rad19syn	2.09081e-65	1.00000	2.09081e-65	1.00000
rad52	2.52803e-69	1.00000	2.52803e-69	1.00000
rad54	2.41647e-70	1.00000	2.41648e-70	1.00000
PAH10+CH3	1.51759e-70	1.00000	1.51759e-70	1.00000
rad43	3.59903e-71	1.00000	3.59903e-71	1.00000
rad62	1.07860e-73	1.00000	1.07860e-73	1.00000
rad51	1.21540e-76	1.00000	1.21540e-76	1.00000
rad70	1.29948e-79	1.00000	1.29948e-79	1.00000
PhcycC3H3_A+H	5.50359e-80	1.00000	5.50360e-80	1.00000
rad55	2.96348e-80	1.00000	2.96348e-80	1.00000
rad65	8.15978e-82	1.00000	8.15979e-82	1.00000
rad58	1.84896e-83	1.00000	1.84896e-83	1.00000
PAH1+H	2.40719e-85	1.00000	2.40719e-85	1.00000
rad34	1.64084e-87	1.00000	1.64084e-87	1.00000
rad42	1.16666e-91	1.00000	1.16666e-91	1.00000
rad41	1.45228e-92	1.00000	1.45228e-92	1.00000
rad47	4.55509e-98	1.00000	4.55509e-98	1.00000

0.100000000E-07 Pa, 30.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15918e-108 (1.00)	1.15918e-108 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999992	0.999992	0.999993	0.999993
rad6	7.10704e-06	0.999999	7.10705e-06	1.00000
Benzyl+C2H2	1.04117e-06	1.00000	0.00000	1.00000
rad2	2.56999e-09	1.00000	2.56999e-09	1.00000
rad7	5.12631e-10	1.00000	5.12632e-10	1.00000
rad1	1.62524e-10	1.00000	1.62524e-10	1.00000
rad10	1.35927e-10	1.00000	1.35927e-10	1.00000
rad11	1.25279e-10	1.00000	1.25279e-10	1.00000
rad3	1.74977e-11	1.00000	1.74977e-11	1.00000
rad4	8.84732e-12	1.00000	8.84733e-12	1.00000
rad13	2.85056e-12	1.00000	2.85056e-12	1.00000
rad33	5.39822e-15	1.00000	5.39822e-15	1.00000
rad35	3.25539e-15	1.00000	3.25540e-15	1.00000
rad20	5.66191e-17	1.00000	5.66192e-17	1.00000
rad21	3.53187e-17	1.00000	3.53187e-17	1.00000
rad28	1.06316e-17	1.00000	1.06316e-17	1.00000
PAH9+H	3.91794e-18	1.00000	3.91794e-18	1.00000
rad26	3.92448e-19	1.00000	3.92449e-19	1.00000
rad18	2.66425e-19	1.00000	2.66425e-19	1.00000
rad31	5.63654e-20	1.00000	5.63654e-20	1.00000
rad22	1.86723e-20	1.00000	1.86723e-20	1.00000
rad23	7.28669e-21	1.00000	7.28670e-21	1.00000
rad38	1.82339e-21	1.00000	1.82339e-21	1.00000
rad30	9.48865e-22	1.00000	9.48866e-22	1.00000
rad27	1.57733e-22	1.00000	1.57733e-22	1.00000
rad45	4.51822e-23	1.00000	4.51823e-23	1.00000
PhCHCCH2+H	2.66764e-23	1.00000	2.66764e-23	1.00000
rad36	2.81364e-24	1.00000	2.81364e-24	1.00000
rad24	1.15401e-24	1.00000	1.15401e-24	1.00000
PhCCH+CH3	8.83937e-25	1.00000	8.83938e-25	1.00000
PhCCCH3+H	1.26810e-25	1.00000	1.26810e-25	1.00000
rad15	7.79989e-26	1.00000	7.79990e-26	1.00000
rad25	3.04252e-27	1.00000	3.04252e-27	1.00000
rad14	2.02756e-28	1.00000	2.02756e-28	1.00000
rad8	4.81195e-31	1.00000	4.81196e-31	1.00000
rad46	2.83755e-33	1.00000	2.83756e-33	1.00000
rad9	1.46473e-33	1.00000	1.46473e-33	1.00000
PAH7+H	1.90057e-34	1.00000	1.90057e-34	1.00000
Ph+MeAc	2.15663e-35	1.00000	2.15663e-35	1.00000
rad12	7.72970e-36	1.00000	7.72971e-36	1.00000
rad39	4.09542e-37	1.00000	4.09543e-37	1.00000
Ph+Allene	1.00439e-39	1.00000	1.00440e-39	1.00000
rad60syn	9.01909e-44	1.00000	9.01910e-44	1.00000
rad60anti	9.40955e-46	1.00000	9.40956e-46	1.00000
PhCH2CCH+H	1.60122e-47	1.00000	1.60122e-47	1.00000
rad37	1.38976e-48	1.00000	1.38976e-48	1.00000
rad5	9.24015e-52	1.00000	9.24016e-52	1.00000
PAH3+H	1.65849e-56	1.00000	1.65849e-56	1.00000
rad59	8.87953e-57	1.00000	8.87954e-57	1.00000
rad50	3.58992e-57	1.00000	3.58993e-57	1.00000
rad19syn	1.35551e-65	1.00000	1.35551e-65	1.00000
rad52	1.63634e-69	1.00000	1.63634e-69	1.00000
rad54	1.59145e-70	1.00000	1.59145e-70	1.00000
PAH10+CH3	1.00204e-70	1.00000	1.00204e-70	1.00000
rad43	2.37758e-71	1.00000	2.37758e-71	1.00000
rad62	7.18084e-74	1.00000	7.18084e-74	1.00000
rad51	8.08635e-77	1.00000	8.08636e-77	1.00000
rad70	8.83204e-80	1.00000	8.83205e-80	1.00000
PhcycC3H3_A+H	3.74845e-80	1.00000	3.74845e-80	1.00000
rad55	2.01798e-80	1.00000	2.01798e-80	1.00000
rad65	5.51488e-82	1.00000	5.51489e-82	1.00000
rad58	1.26163e-83	1.00000	1.26163e-83	1.00000
PAH1+H	1.67159e-85	1.00000	1.67159e-85	1.00000
rad34	1.14533e-87	1.00000	1.14533e-87	1.00000
rad42	8.25297e-92	1.00000	8.25298e-92	1.00000
rad41	1.03344e-92	1.00000	1.03344e-92	1.00000
rad47	1.56588e-98	1.00000	1.56588e-98	1.00000

0.100000000E-07 Pa, 40.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 1.02415e-84 (1.00) 1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999995	0.999995	0.999996	0.999996
rad6	3.67253e-06	0.999999	3.67254e-06	1.000000
Benzyl+C2H2	1.52923e-06	1.000000	0.000000	1.000000
rad2	1.46848e-09	1.000000	1.46848e-09	1.000000
rad7	2.65069e-10	1.000000	2.65069e-10	1.000000
rad1	9.29794e-11	1.000000	9.29795e-11	1.000000
rad10	7.57555e-11	1.000000	7.57556e-11	1.000000
rad11	6.47984e-11	1.000000	6.47985e-11	1.000000
rad3	9.78515e-12	1.000000	9.78516e-12	1.000000
rad4	4.94918e-12	1.000000	4.94919e-12	1.000000
rad13	1.47447e-12	1.000000	1.47447e-12	1.000000
rad35	5.91308e-14	1.000000	5.91309e-14	1.000000
rad33	2.79712e-15	1.000000	2.79713e-15	1.000000
PAH9+H	4.50505e-16	1.000000	4.50506e-16	1.000000
rad20	3.70261e-17	1.000000	3.70262e-17	1.000000
rad21	2.31041e-17	1.000000	2.31041e-17	1.000000
rad28	8.23542e-18	1.000000	8.23543e-18	1.000000
rad26	2.88473e-19	1.000000	2.88473e-19	1.000000
rad18	1.74370e-19	1.000000	1.74370e-19	1.000000
rad31	3.40345e-20	1.000000	3.40346e-20	1.000000
rad38	1.34141e-20	1.000000	1.34141e-20	1.000000
rad22	1.21736e-20	1.000000	1.21737e-20	1.000000
rad23	4.07783e-21	1.000000	4.07784e-21	1.000000
rad30	1.09202e-21	1.000000	1.09202e-21	1.000000
rad27	1.14093e-22	1.000000	1.14094e-22	1.000000
PhCHCCH2+H	2.94533e-23	1.000000	2.94533e-23	1.000000
rad45	2.61368e-23	1.000000	2.61368e-23	1.000000
rad36	1.62663e-24	1.000000	1.62664e-24	1.000000
PhCCH+CH3	9.88346e-25	1.000000	9.88347e-25	1.000000
rad24	7.79811e-25	1.000000	7.79812e-25	1.000000
PhCCCH3+H	1.42546e-25	1.000000	1.42546e-25	1.000000
rad15	8.50359e-26	1.000000	8.50360e-26	1.000000
rad25	2.22959e-27	1.000000	2.22960e-27	1.000000
rad14	1.49878e-28	1.000000	1.49878e-28	1.000000
rad8	5.58080e-31	1.000000	5.58081e-31	1.000000
rad46	3.20601e-33	1.000000	3.20602e-33	1.000000
rad9	1.72575e-33	1.000000	1.72575e-33	1.000000
PAH7+H	2.25337e-34	1.000000	2.25337e-34	1.000000
Ph+MeAc	2.60488e-35	1.000000	2.60488e-35	1.000000
rad12	9.25424e-36	1.000000	9.25425e-36	1.000000
rad39	4.92969e-37	1.000000	4.92970e-37	1.000000
Ph+Allene	1.24343e-39	1.000000	1.24343e-39	1.000000
rad60syn	1.11161e-43	1.000000	1.11161e-43	1.000000
rad60anti	1.17614e-45	1.000000	1.17614e-45	1.000000
PhCH2CCH+H	2.09438e-47	1.000000	2.09438e-47	1.000000
rad37	1.84969e-48	1.000000	1.84970e-48	1.000000
rad5	1.23871e-51	1.000000	1.23872e-51	1.000000
PAH3+H	2.24953e-56	1.000000	2.24953e-56	1.000000
rad59	1.20400e-56	1.000000	1.20400e-56	1.000000
rad50	4.83052e-57	1.000000	4.83053e-57	1.000000
rad19syn	2.00119e-65	1.000000	2.00119e-65	1.000000
rad52	2.40680e-69	1.000000	2.40680e-69	1.000000
rad54	2.42808e-70	1.000000	2.42809e-70	1.000000
PAH10+CH3	1.55281e-70	1.000000	1.55281e-70	1.000000
rad43	3.68489e-71	1.000000	3.68490e-71	1.000000
rad62	1.12624e-73	1.000000	1.12624e-73	1.000000
rad51	1.26033e-76	1.000000	1.26033e-76	1.000000
rad70	1.43933e-79	1.000000	1.43933e-79	1.000000
PhcycC3H3_A+H	6.13572e-80	1.000000	6.13573e-80	1.000000
rad55	3.30172e-80	1.000000	3.30173e-80	1.000000
rad65	8.88306e-82	1.000000	8.88308e-82	1.000000
rad58	2.07307e-83	1.000000	2.07307e-83	1.000000
PAH1+H	2.85303e-85	1.000000	2.85303e-85	1.000000
rad34	1.97354e-87	1.000000	1.97355e-87	1.000000
rad42	1.47409e-91	1.000000	1.47409e-91	1.000000
rad41	1.90649e-92	1.000000	1.90650e-92	1.000000
rad47	1.78862e-98	1.000000	1.78862e-98	1.000000

0.100000000E-07 Pa, 50.000000 K

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

Total | 2.31816e-70 (1.00) | 2.31816e-70 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.999996	0.999996	0.999998	0.999998
Benzyl+C2H2	2.26191e-06	0.999998	0.00000	0.999998
rad6	2.20659e-06	1.00000	2.20659e-06	1.00000
rad2	8.94617e-10	1.00000	8.94619e-10	1.00000
rad7	1.59407e-10	1.00000	1.59408e-10	1.00000
rad1	5.67438e-11	1.00000	5.67439e-11	1.00000
rad10	4.80840e-11	1.00000	4.80841e-11	1.00000
rad11	3.89823e-11	1.00000	3.89824e-11	1.00000
rad3	6.01734e-12	1.00000	6.01735e-12	1.00000
rad4	3.04482e-12	1.00000	3.04483e-12	1.00000
rad13	8.87160e-13	1.00000	8.87162e-13	1.00000
rad35	3.19950e-13	1.00000	3.19950e-13	1.00000
PAH9+H	8.81971e-15	1.00000	8.81973e-15	1.00000
rad33	1.68619e-15	1.00000	1.68620e-15	1.00000
rad20	2.70732e-17	1.00000	2.70732e-17	1.00000
rad21	1.69013e-17	1.00000	1.69014e-17	1.00000
rad28	1.15469e-17	1.00000	1.15469e-17	1.00000
rad38	2.32528e-18	1.00000	2.32529e-18	1.00000
rad26	3.77091e-19	1.00000	3.77091e-19	1.00000
rad30	1.73820e-19	1.00000	1.73820e-19	1.00000
rad18	1.27624e-19	1.00000	1.27624e-19	1.00000
rad31	2.34935e-20	1.00000	2.34936e-20	1.00000
rad22	8.88303e-21	1.00000	8.88305e-21	1.00000
rad23	2.74505e-21	1.00000	2.74506e-21	1.00000
rad27	1.83248e-22	1.00000	1.83248e-22	1.00000
PhCHCCH2+H	4.93564e-23	1.00000	4.93566e-23	1.00000
rad45	1.68913e-23	1.00000	1.68913e-23	1.00000
PhCCH+CH3	1.68772e-24	1.00000	1.68772e-24	1.00000
rad36	1.05041e-24	1.00000	1.05041e-24	1.00000
rad24	5.96969e-25	1.00000	5.96970e-25	1.00000
rad15	3.46067e-25	1.00000	3.46068e-25	1.00000
PhCCCH3+H	2.45428e-25	1.00000	2.45429e-25	1.00000
rad25	2.78169e-27	1.00000	2.78170e-27	1.00000
rad14	1.88679e-28	1.00000	1.88679e-28	1.00000
rad8	1.00610e-30	1.00000	1.00610e-30	1.00000
rad46	5.55516e-33	1.00000	5.55517e-33	1.00000
rad9	3.17520e-33	1.00000	3.17520e-33	1.00000
PAH7+H	4.19159e-34	1.00000	4.19160e-34	1.00000
Ph+MeAc	4.98430e-35	1.00000	4.98432e-35	1.00000
rad12	1.74868e-35	1.00000	1.74868e-35	1.00000
rad39	9.36551e-37	1.00000	9.36553e-37	1.00000
Ph+Allene	2.45387e-39	1.00000	2.45387e-39	1.00000
rad60syn	2.17989e-43	1.00000	2.17989e-43	1.00000
rad60anti	2.35277e-45	1.00000	2.35277e-45	1.00000
PhCH2CCH+H	4.46770e-47	1.00000	4.46771e-47	1.00000
rad37	4.09809e-48	1.00000	4.09810e-48	1.00000
rad5	2.77519e-51	1.00000	2.77520e-51	1.00000
PAH3+H	5.05187e-56	1.00000	5.05188e-56	1.00000
rad59	2.70258e-56	1.00000	2.70259e-56	1.00000
rad50	1.07478e-56	1.00000	1.07478e-56	1.00000
rad19syn	5.06781e-65	1.00000	5.06782e-65	1.00000
rad52	6.09384e-69	1.00000	6.09385e-69	1.00000
rad54	6.44267e-70	1.00000	6.44268e-70	1.00000
PAH10+CH3	4.49621e-70	1.00000	4.49622e-70	1.00000
rad43	1.06701e-70	1.00000	1.06701e-70	1.00000
rad62	3.22933e-73	1.00000	3.22933e-73	1.00000
rad51	3.47782e-76	1.00000	3.47783e-76	1.00000
rad70	4.19406e-79	1.00000	4.19407e-79	1.00000
PhcycC3H3_A+H	1.79914e-79	1.00000	1.79915e-79	1.00000
rad55	9.67522e-80	1.00000	9.67525e-80	1.00000
rad65	2.57475e-81	1.00000	2.57475e-81	1.00000
rad58	6.11212e-83	1.00000	6.11213e-83	1.00000
PAH1+H	8.88421e-85	1.00000	8.88423e-85	1.00000
rad34	6.22573e-87	1.00000	6.22575e-87	1.00000
rad42	5.40019e-91	1.00000	5.40020e-91	1.00000
rad41	8.95054e-92	1.00000	8.95056e-92	1.00000
rad47	4.25783e-98	1.00000	4.25784e-98	1.00000

0.100000000E-07 Pa, 60.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.44107e-61 (1.00)	8.44104e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999995	0.999995	0.999999	0.999999
Benzyl+C2H2	3.25416e-06	0.999998	0.00000	0.999999
rad6	1.44364e-06	1.00000	1.44365e-06	1.00000
rad2	7.16067e-10	1.00000	7.16070e-10	1.00000

rad7	1.04406e-10	1.000000	1.04407e-10	1.00000
rad1	4.55169e-11	1.000000	4.55171e-11	1.00000
rad10	3.38280e-11	1.000000	3.38281e-11	1.00000
rad11	2.55420e-11	1.000000	2.55421e-11	1.00000
rad3	4.85518e-12	1.000000	4.85520e-12	1.00000
rad4	2.45812e-12	1.000000	2.45813e-12	1.00000
rad35	9.63222e-13	1.000000	9.63225e-13	1.00000
rad13	5.81415e-13	1.000000	5.81417e-13	1.00000
PAH9+H	6.37597e-14	1.000000	6.37599e-14	1.00000
rad33	1.10737e-15	1.000000	1.10737e-15	1.00000
rad28	1.27028e-16	1.000000	1.27028e-16	1.00000
rad38	7.70811e-17	1.000000	7.70813e-17	1.00000
rad30	2.80484e-17	1.000000	2.80485e-17	1.00000
rad20	2.10386e-17	1.000000	2.10387e-17	1.00000
rad21	1.31416e-17	1.000000	1.31417e-17	1.00000
rad26	3.74619e-18	1.000000	3.74620e-18	1.00000
rad18	9.92708e-20	1.000000	9.92711e-20	1.00000
rad31	1.75002e-20	1.000000	1.75002e-20	1.00000
rad22	6.88933e-21	1.000000	6.88935e-21	1.00000
rad23	2.03591e-21	1.000000	2.03591e-21	1.00000
rad27	2.00425e-21	1.000000	2.00426e-21	1.00000
rad15	4.76551e-22	1.000000	4.76552e-22	1.00000
PhCHCCH2+H	2.09245e-22	1.000000	2.09246e-22	1.00000
rad45	1.43140e-23	1.000000	1.43141e-23	1.00000
PhCCH+CH3	5.30016e-24	1.000000	5.30018e-24	1.00000
rad36	8.89403e-25	1.000000	8.89406e-25	1.00000
PhCCCH3+H	6.72246e-25	1.000000	6.72249e-25	1.00000
rad24	4.90171e-25	1.000000	4.90172e-25	1.00000
rad25	1.74234e-26	1.000000	1.74234e-26	1.00000
rad14	8.90808e-28	1.000000	8.90811e-28	1.00000
rad8	2.92007e-30	1.000000	2.92008e-30	1.00000
rad46	1.53297e-32	1.000000	1.53297e-32	1.00000
rad9	9.41258e-33	1.000000	9.41261e-33	1.00000
PAH7+H	1.26892e-33	1.000000	1.26893e-33	1.00000
Ph+MeAc	1.56312e-34	1.000000	1.56313e-34	1.00000
rad12	5.40099e-35	1.000000	5.40101e-35	1.00000
rad39	2.90437e-36	1.000000	2.90438e-36	1.00000
Ph+Allene	7.91787e-39	1.000000	7.91789e-39	1.00000
rad60syn	6.97958e-43	1.000000	6.97961e-43	1.00000
rad60anti	7.71754e-45	1.000000	7.71757e-45	1.00000
PhCH2CCH+H	1.58555e-46	1.000000	1.58556e-46	1.00000
rad37	1.59791e-47	1.000000	1.59791e-47	1.00000
rad5	1.10268e-50	1.000000	1.10269e-50	1.00000
PAH3+H	1.91088e-55	1.000000	1.91089e-55	1.00000
rad59	1.02162e-55	1.000000	1.02163e-55	1.00000
rad50	4.05761e-56	1.000000	4.05763e-56	1.00000
rad19syn	2.23411e-64	1.000000	2.23412e-64	1.00000
rad52	2.77035e-68	1.000000	2.77036e-68	1.00000
PAH10+CH3	3.37782e-69	1.000000	3.37783e-69	1.00000
rad54	3.02142e-69	1.000000	3.02143e-69	1.00000
rad43	8.01446e-70	1.000000	8.01449e-70	1.00000
rad62	2.17870e-72	1.000000	2.17870e-72	1.00000
rad51	1.83391e-75	1.000000	1.83391e-75	1.00000
rad70	2.24151e-78	1.000000	2.24152e-78	1.00000
PhcycC3H3_A+H	9.70443e-79	1.000000	9.70446e-79	1.00000
rad55	5.21351e-79	1.000000	5.21353e-79	1.00000
rad65	1.49246e-80	1.000000	1.49246e-80	1.00000
rad58	3.32393e-82	1.000000	3.32394e-82	1.00000
PAH1+H	5.28330e-84	1.000000	5.28332e-84	1.00000
rad34	3.75789e-86	1.000000	3.75790e-86	1.00000
rad42	9.01483e-90	1.000000	9.01486e-90	1.00000
rad41	3.22345e-90	1.000000	3.22346e-90	1.00000
rad47	2.40005e-97	1.000000	2.40005e-97	1.00000

0.100000000E-07 Pa, 70.0000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.61998e-54 (1.00)	5.61996e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999994	0.999994	0.999999	0.999999
Benzyl+C2H2	4.55797e-06	0.999999	0.00000	0.999999
rad6	9.97779e-07	1.000000	9.97783e-07	1.000000
rad2	5.11586e-10	1.000000	5.11589e-10	1.000000
rad7	7.22511e-11	1.000000	7.22514e-11	1.000000
rad1	3.26004e-11	1.000000	3.26006e-11	1.000000
rad10	2.41244e-11	1.000000	2.41245e-11	1.000000
rad11	1.76831e-11	1.000000	1.76831e-11	1.000000

rad3	3.64995e-12	1.000000	3.64996e-12	1.000000
rad35	2.11184e-12	1.000000	2.11185e-12	1.000000
rad4	1.84909e-12	1.000000	1.84910e-12	1.000000
rad13	4.02634e-13	1.000000	4.02636e-13	1.000000
PAH9+H	2.62379e-13	1.000000	2.62380e-13	1.000000
rad28	2.39440e-15	1.000000	2.39441e-15	1.000000
rad30	1.03416e-15	1.000000	1.03417e-15	1.000000
rad38	9.17825e-16	1.000000	9.17829e-16	1.000000
rad33	7.68564e-16	1.000000	7.68568e-16	1.000000
rad26	8.94199e-17	1.000000	8.94204e-17	1.000000
rad20	1.69962e-17	1.000000	1.69963e-17	1.000000
rad21	1.06236e-17	1.000000	1.06237e-17	1.000000
rad15	9.42543e-20	1.000000	9.42547e-20	1.000000
rad18	8.02562e-20	1.000000	8.02566e-20	1.000000
PhCHCCH2+H	3.37815e-20	1.000000	3.37817e-20	1.000000
rad27	2.19442e-20	1.000000	2.19443e-20	1.000000
rad31	1.37244e-20	1.000000	1.37245e-20	1.000000
rad22	5.55277e-21	1.000000	5.55280e-21	1.000000
rad23	1.60222e-21	1.000000	1.60223e-21	1.000000
PhCCH+CH3	1.21460e-21	1.000000	1.21461e-21	1.000000
PhCCCH3+H	1.74448e-22	1.000000	1.74449e-22	1.000000
rad45	1.22744e-23	1.000000	1.22745e-23	1.000000
rad25	1.07430e-24	1.000000	1.07430e-24	1.000000
rad36	7.62082e-25	1.000000	7.62085e-25	1.000000
rad24	4.21195e-25	1.000000	4.21197e-25	1.000000
rad14	8.02086e-26	1.000000	8.02089e-26	1.000000
rad46	1.48963e-27	1.000000	1.48963e-27	1.000000
rad8	1.95625e-29	1.000000	1.95626e-29	1.000000
rad9	6.46952e-32	1.000000	6.46955e-32	1.000000
PAH7+H	9.47146e-33	1.000000	9.47150e-33	1.000000
Ph+MeAc	1.14960e-33	1.000000	1.14961e-33	1.000000
rad12	3.95291e-34	1.000000	3.95292e-34	1.000000
rad39	2.20393e-35	1.000000	2.20394e-35	1.000000
Ph+Allene	5.98858e-38	1.000000	5.98861e-38	1.000000
rad60syn	5.23222e-42	1.000000	5.23224e-42	1.000000
rad60anti	5.94746e-44	1.000000	5.94749e-44	1.000000
PhCH2CCH+H	1.34001e-45	1.000000	1.34001e-45	1.000000
rad37	1.64706e-46	1.000000	1.64707e-46	1.000000
rad5	1.17380e-49	1.000000	1.17381e-49	1.000000
PAH3+H	1.74768e-54	1.000000	1.74769e-54	1.000000
rad59	9.33580e-55	1.000000	9.33584e-55	1.000000
rad50	3.81532e-55	1.000000	3.81534e-55	1.000000
rad19syn	2.55957e-63	1.000000	2.55958e-63	1.000000
rad52	3.73268e-67	1.000000	3.73270e-67	1.000000
PAH10+CH3	1.33782e-67	1.000000	1.33783e-67	1.000000
rad54	3.88983e-68	1.000000	3.88985e-68	1.000000
rad43	3.17216e-68	1.000000	3.17217e-68	1.000000
rad62	8.04536e-71	1.000000	8.04540e-71	1.000000
rad51	3.69147e-74	1.000000	3.69149e-74	1.000000
rad70	4.00500e-77	1.000000	4.00502e-77	1.000000
PhcycC3H3_A+H	1.78350e-77	1.000000	1.78351e-77	1.000000
rad55	9.54751e-78	1.000000	9.54755e-78	1.000000
rad65	3.98013e-79	1.000000	3.98015e-79	1.000000
rad58	6.26652e-81	1.000000	6.26655e-81	1.000000
PAH1+H	1.38412e-82	1.000000	1.38412e-82	1.000000
rad34	1.02272e-84	1.000000	1.02273e-84	1.000000
rad42	1.49440e-87	1.000000	1.49441e-87	1.000000
rad41	6.97752e-88	1.000000	6.97756e-88	1.000000
rad47	9.08462e-96	1.000000	9.08466e-96	1.000000

0.100000000E-07 Pa, 80.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	7.28864e-49 (1.00)	7.28860e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999993	0.999993	0.999999	0.999999
Benzyl+C2H2	6.25422e-06	0.999999	0.00000	0.999999
rad6	7.16332e-07	1.000000	7.16336e-07	1.000000
rad2	3.55380e-10	1.000000	3.55382e-10	1.000000
rad7	5.19419e-11	1.000000	5.19422e-11	1.000000
rad1	2.27092e-11	1.000000	2.27094e-11	1.000000
rad10	1.88020e-11	1.000000	1.88021e-11	1.000000
rad11	1.27183e-11	1.000000	1.27183e-11	1.000000
rad35	3.84766e-12	1.000000	3.84769e-12	1.000000
rad3	2.22422e-12	1.000000	2.22423e-12	1.000000
rad4	1.12762e-12	1.000000	1.12763e-12	1.000000
PAH9+H	7.64129e-13	1.000000	7.64133e-13	1.000000

rad13	2.89683e-13	1.000000	2.89685e-13	1.000000
rad28	2.22364e-14	1.000000	2.22366e-14	1.000000
rad30	1.51675e-14	1.000000	1.51676e-14	1.000000
rad38	5.80878e-15	1.000000	5.80882e-15	1.000000
rad26	1.01526e-15	1.000000	1.01527e-15	1.000000
rad33	5.54273e-16	1.000000	5.54276e-16	1.000000
rad20	1.41028e-17	1.000000	1.41029e-17	1.000000
rad21	8.82175e-18	1.000000	8.82180e-18	1.000000
rad15	4.85066e-18	1.000000	4.85069e-18	1.000000
PhCHCCH2+H	3.09140e-18	1.000000	3.09142e-18	1.000000
PhCCH+CH3	2.11832e-19	1.000000	2.11833e-19	1.000000
rad27	1.31493e-19	1.000000	1.31494e-19	1.000000
rad18	6.66217e-20	1.000000	6.66221e-20	1.000000
PhCCCH3+H	3.80553e-20	1.000000	3.80555e-20	1.000000
rad31	1.11174e-20	1.000000	1.11175e-20	1.000000
rad22	4.59438e-21	1.000000	4.59440e-21	1.000000
rad23	1.31475e-21	1.000000	1.31476e-21	1.000000
rad25	2.87701e-23	1.000000	2.87702e-23	1.000000
rad45	8.28759e-24	1.000000	8.28764e-24	1.000000
rad14	3.29233e-24	1.000000	3.29235e-24	1.000000
rad36	5.14194e-25	1.000000	5.14197e-25	1.000000
rad46	4.58856e-25	1.000000	4.58858e-25	1.000000
rad24	3.73658e-25	1.000000	3.73661e-25	1.000000
rad8	3.70531e-25	1.000000	3.70534e-25	1.000000
rad9	2.18527e-30	1.000000	2.18528e-30	1.000000
PAH7+H	3.59095e-31	1.000000	3.59097e-31	1.000000
Ph+MeAc	4.02952e-32	1.000000	4.02954e-32	1.000000
rad12	1.40295e-32	1.000000	1.40296e-32	1.000000
rad39	8.46808e-34	1.000000	8.46813e-34	1.000000
Ph+Allene	2.23839e-36	1.000000	2.23840e-36	1.000000
rad60syn	1.93741e-40	1.000000	1.93742e-40	1.000000
rad60anti	2.26695e-42	1.000000	2.26696e-42	1.000000
PhCH2CCH+H	5.63195e-44	1.000000	5.63199e-44	1.000000
rad37	7.93933e-45	1.000000	7.93938e-45	1.000000
rad5	5.83681e-48	1.000000	5.83685e-48	1.000000
PAH3+H	8.02053e-53	1.000000	8.02058e-53	1.000000
rad59	4.27984e-53	1.000000	4.27987e-53	1.000000
rad50	1.85357e-53	1.000000	1.85359e-53	1.000000
rad19syn	1.61806e-61	1.000000	1.61807e-61	1.000000
rad52	3.23881e-65	1.000000	3.23883e-65	1.000000
PAH10+CH3	2.32666e-65	1.000000	2.32668e-65	1.000000
rad43	5.51792e-66	1.000000	5.51795e-66	1.000000
rad54	3.05672e-66	1.000000	3.05674e-66	1.000000
rad62	1.55482e-68	1.000000	1.55483e-68	1.000000
rad51	5.91617e-72	1.000000	5.91621e-72	1.000000
rad70	6.11331e-75	1.000000	6.11335e-75	1.000000
PhcycC3H3_A+H	2.87530e-75	1.000000	2.87532e-75	1.000000
rad55	1.52714e-75	1.000000	1.52715e-75	1.000000
rad65	9.09664e-77	1.000000	9.09670e-77	1.000000
rad58	1.05908e-78	1.000000	1.05909e-78	1.000000
PAH1+H	3.95476e-80	1.000000	3.95478e-80	1.000000
rad34	3.18215e-82	1.000000	3.18217e-82	1.000000
rad42	9.31934e-85	1.000000	9.31940e-85	1.000000
rad41	4.58417e-85	1.000000	4.58420e-85	1.000000
rad47	2.95523e-93	1.000000	2.95525e-93	1.000000

0.100000000E-07 Pa, 90.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	6.85154e-45 (1.00)	6.85148e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999991	0.999991	0.999999	0.999999
Benzyl+C2H2	8.45242e-06	0.999999	0.00000	0.999999
rad6	5.28610e-07	1.000000	5.28614e-07	1.000000
rad2	2.67117e-10	1.000000	2.67119e-10	1.000000
rad7	3.83861e-11	1.000000	3.83864e-11	1.000000
rad1	1.71217e-11	1.000000	1.71219e-11	1.000000
rad10	1.44654e-11	1.000000	1.44655e-11	1.000000
rad11	9.40355e-12	1.000000	9.40363e-12	1.000000
rad35	6.25598e-12	1.000000	6.25604e-12	1.000000
rad3	1.77975e-12	1.000000	1.77976e-12	1.000000
PAH9+H	1.77828e-12	1.000000	1.77829e-12	1.000000
rad4	9.03002e-13	1.000000	9.03009e-13	1.000000
rad13	2.14262e-13	1.000000	2.14264e-13	1.000000
rad30	1.20961e-13	1.000000	1.20962e-13	1.000000
rad28	1.19867e-13	1.000000	1.19868e-13	1.000000
rad38	2.43293e-14	1.000000	2.43295e-14	1.000000

rad26	6.40308e-15	1.000000	6.40313e-15	1.000000
rad33	4.11003e-16	1.000000	4.11007e-16	1.000000
PhCHCCH2+H	1.07355e-16	1.000000	1.07356e-16	1.000000
rad15	1.02394e-16	1.000000	1.02394e-16	1.000000
PhCCH+CH3	1.20942e-17	1.000000	1.20943e-17	1.000000
rad20	1.19307e-17	1.000000	1.19308e-17	1.000000
rad21	7.46921e-18	1.000000	7.46927e-18	1.000000
PhCCCH3+H	2.55962e-18	1.000000	2.55964e-18	1.000000
rad27	5.04736e-19	1.000000	5.04741e-19	1.000000
rad18	5.63608e-20	1.000000	5.63613e-20	1.000000
rad31	9.22741e-21	1.000000	9.22748e-21	1.000000
rad22	3.87297e-21	1.000000	3.87300e-21	1.000000
rad23	1.11364e-21	1.000000	1.11365e-21	1.000000
rad25	3.54280e-22	1.000000	3.54283e-22	1.000000
rad8	1.12475e-22	1.000000	1.12476e-22	1.000000
rad14	5.65635e-23	1.000000	5.65639e-23	1.000000
rad46	3.75433e-23	1.000000	3.75437e-23	1.000000
rad45	7.31664e-24	1.000000	7.31670e-24	1.000000
rad9	1.25546e-24	1.000000	1.25547e-24	1.000000
rad36	4.53697e-25	1.000000	4.53701e-25	1.000000
rad24	3.39410e-25	1.000000	3.39412e-25	1.000000
PAH7+H	2.14386e-25	1.000000	2.14388e-25	1.000000
rad12	7.47603e-27	1.000000	7.47609e-27	1.000000
Ph+MeAc	1.87582e-27	1.000000	1.87584e-27	1.000000
rad39	1.66980e-31	1.000000	1.66981e-31	1.000000
Ph+Allene	4.49776e-34	1.000000	4.49780e-34	1.000000
rad60syn	3.85625e-38	1.000000	3.85628e-38	1.000000
rad60anti	4.64425e-40	1.000000	4.64429e-40	1.000000
PhCH2CCH+H	1.26652e-41	1.000000	1.26653e-41	1.000000
rad37	1.71294e-42	1.000000	1.71296e-42	1.000000
rad5	1.27452e-45	1.000000	1.27453e-45	1.000000
PAH3+H	1.94898e-50	1.000000	1.94900e-50	1.000000
rad59	1.03901e-50	1.000000	1.03902e-50	1.000000
rad50	4.62886e-51	1.000000	4.62889e-51	1.000000
rad19syn	5.25671e-59	1.000000	5.25676e-59	1.000000
rad52	1.41410e-62	1.000000	1.41411e-62	1.000000
PAH10+CH3	1.26888e-62	1.000000	1.26889e-62	1.000000
rad43	3.01066e-63	1.000000	3.01069e-63	1.000000
rad54	1.24702e-63	1.000000	1.24703e-63	1.000000
rad62	9.83316e-66	1.000000	9.83324e-66	1.000000
rad51	4.41160e-69	1.000000	4.41163e-69	1.000000
rad70	4.82971e-72	1.000000	4.82975e-72	1.000000
PhcycC3H3_A+H	2.38710e-72	1.000000	2.38712e-72	1.000000
rad55	1.25720e-72	1.000000	1.25721e-72	1.000000
rad65	9.02323e-74	1.000000	9.02330e-74	1.000000
rad58	9.16037e-76	1.000000	9.16045e-76	1.000000
PAH1+H	5.19249e-77	1.000000	5.19254e-77	1.000000
rad34	4.56511e-79	1.000000	4.56515e-79	1.000000
rad42	1.73111e-81	1.000000	1.73112e-81	1.000000
rad41	8.81948e-82	1.000000	8.81956e-82	1.000000
rad47	3.79689e-90	1.000000	3.79692e-90	1.000000

0.100000000E-07 Pa, 100.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.02671e-41 (1.00)	1.02670e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999988	0.999988	1.00000	1.00000
Benzyl+C2H2	1.12963e-05	0.999999	0.00000	1.00000
rad6	3.98155e-07	1.000000	3.98160e-07	1.00000
rad2	2.61683e-10	1.000000	2.61686e-10	1.00000
rad7	2.89575e-11	1.000000	2.89579e-11	1.00000
rad1	1.68299e-11	1.000000	1.68301e-11	1.00000
rad10	1.15000e-11	1.000000	1.15002e-11	1.00000
rad35	9.46410e-12	1.000000	9.46421e-12	1.00000
rad11	7.09741e-12	1.000000	7.09749e-12	1.00000
PAH9+H	3.55837e-12	1.000000	3.55841e-12	1.00000
rad3	1.81561e-12	1.000000	1.81563e-12	1.00000
rad4	9.22014e-13	1.000000	9.22025e-13	1.00000
rad30	6.32703e-13	1.000000	6.32711e-13	1.00000
rad28	4.39874e-13	1.000000	4.39879e-13	1.00000
rad13	1.61781e-13	1.000000	1.61783e-13	1.00000
rad38	7.69632e-14	1.000000	7.69640e-14	1.00000
rad26	2.66435e-14	1.000000	2.66438e-14	1.00000
PhCHCCH2+H	1.87575e-15	1.000000	1.87577e-15	1.00000
rad15	1.16430e-15	1.000000	1.16431e-15	1.00000
PhCCH+CH3	3.13523e-16	1.000000	3.13527e-16	1.00000

rad33	3.11169e-16	1.000000	3.11172e-16	1.00000
PhCCCH3+H	7.52980e-17	1.000000	7.52989e-17	1.00000
rad20	1.02402e-17	1.000000	1.02403e-17	1.00000
rad21	6.41673e-18	1.000000	6.41680e-18	1.00000
rad27	1.41440e-18	1.000000	1.41442e-18	1.00000
rad18	4.83518e-20	1.000000	4.83523e-20	1.00000
rad8	7.87588e-21	1.000000	7.87597e-21	1.00000
rad31	7.81918e-21	1.000000	7.81927e-21	1.00000
rad22	3.30973e-21	1.000000	3.30977e-21	1.00000
rad25	2.51837e-21	1.000000	2.51840e-21	1.00000
rad46	1.26406e-21	1.000000	1.26408e-21	1.00000
rad23	9.68262e-22	1.000000	9.68273e-22	1.00000
rad14	5.24612e-22	1.000000	5.24618e-22	1.00000
rad9	1.71421e-22	1.000000	1.71423e-22	1.00000
PAH7+H	4.58325e-23	1.000000	4.58330e-23	1.00000
Ph+MeAc	1.57471e-23	1.000000	1.57473e-23	1.00000
rad45	6.81754e-24	1.000000	6.81762e-24	1.00000
rad12	2.81374e-24	1.000000	2.81377e-24	1.00000
rad36	4.22580e-25	1.000000	4.22585e-25	1.00000
rad39	3.50292e-25	1.000000	3.50296e-25	1.00000
rad24	3.13971e-25	1.000000	3.13975e-25	1.00000
Ph+Allene	1.51009e-31	1.000000	1.51011e-31	1.00000
rad60syn	1.28186e-35	1.000000	1.28188e-35	1.00000
rad60anti	1.59076e-37	1.000000	1.59078e-37	1.00000
PhCH2CCH+H	4.77525e-39	1.000000	4.77530e-39	1.00000
rad37	6.17998e-40	1.000000	6.18005e-40	1.00000
rad5	4.63887e-43	1.000000	4.63892e-43	1.00000
PAH3+H	7.93754e-48	1.000000	7.93763e-48	1.00000
rad59	4.22746e-48	1.000000	4.22750e-48	1.00000
rad50	1.88814e-48	1.000000	1.88816e-48	1.00000
rad19syn	2.90624e-56	1.000000	2.90627e-56	1.00000
PAH10+CH3	1.11898e-59	1.000000	1.11900e-59	1.00000
rad52	1.01503e-59	1.000000	1.01504e-59	1.00000
rad43	2.65672e-60	1.000000	2.65675e-60	1.00000
rad54	9.00085e-61	1.000000	9.00095e-61	1.00000
rad62	1.01434e-62	1.000000	1.01435e-62	1.00000
rad51	5.25909e-66	1.000000	5.25915e-66	1.00000
rad70	6.96302e-69	1.000000	6.96310e-69	1.00000
PhcycC3H3_A+H	3.61331e-69	1.000000	3.61335e-69	1.00000
rad55	1.88455e-69	1.000000	1.88457e-69	1.00000
rad65	1.40414e-70	1.000000	1.40415e-70	1.00000
rad58	1.44065e-72	1.000000	1.44066e-72	1.00000
PAH1+H	1.21726e-73	1.000000	1.21728e-73	1.00000
rad34	1.18104e-75	1.000000	1.18105e-75	1.00000
rad42	5.27602e-78	1.000000	5.27608e-78	1.00000
rad41	2.77334e-78	1.000000	2.77337e-78	1.00000
rad47	7.58438e-87	1.000000	7.58447e-87	1.00000

0.100000000E-07 Pa, 110.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04926e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999985	0.999985	1.00000	1.00000
Benzyl+C2H2	1.49726e-05	1.000000	0.00000	1.00000
rad6	3.04603e-07	1.00000	3.04608e-07	1.00000
rad2	1.60116e-10	1.00000	1.60118e-10	1.00000
rad7	2.21894e-11	1.00000	2.21898e-11	1.00000
rad35	1.36724e-11	1.00000	1.36726e-11	1.00000
rad1	1.03356e-11	1.00000	1.03357e-11	1.00000
rad10	8.68649e-12	1.00000	8.68662e-12	1.00000
PAH9+H	6.41652e-12	1.00000	6.41662e-12	1.00000
rad11	5.44146e-12	1.00000	5.44154e-12	1.00000
rad30	2.44539e-12	1.00000	2.44543e-12	1.00000
rad28	1.22100e-12	1.00000	1.22102e-12	1.00000
rad3	1.06125e-12	1.00000	1.06126e-12	1.00000
rad4	5.39455e-13	1.00000	5.39463e-13	1.00000
rad38	2.00047e-13	1.00000	2.00050e-13	1.00000
rad13	1.24089e-13	1.00000	1.24091e-13	1.00000
rad26	8.19707e-14	1.00000	8.19720e-14	1.00000
PhCHCCH2+H	1.99040e-14	1.00000	1.99043e-14	1.00000
rad15	8.47756e-15	1.00000	8.47769e-15	1.00000
PhCCH+CH3	4.58419e-15	1.00000	4.58426e-15	1.00000
PhCCCH3+H	1.21657e-15	1.00000	1.21659e-15	1.00000
rad33	2.39356e-16	1.00000	2.39359e-16	1.00000
rad20	8.88733e-18	1.00000	8.88746e-18	1.00000
rad21	5.57453e-18	1.00000	5.57462e-18	1.00000

rad27	3.15430e-18	1.00000	3.15435e-18	1.00000
rad8	2.54404e-19	1.00000	2.54408e-19	1.00000
rad18	4.19210e-20	1.00000	4.19216e-20	1.00000
rad46	2.24507e-20	1.00000	2.24510e-20	1.00000
rad25	1.20128e-20	1.00000	1.20130e-20	1.00000
rad9	8.70678e-21	1.00000	8.70691e-21	1.00000
rad31	6.71218e-21	1.00000	6.71228e-21	1.00000
rad14	3.10989e-21	1.00000	3.10994e-21	1.00000
rad22	2.85738e-21	1.00000	2.85742e-21	1.00000
PAH7+H	2.76439e-21	1.00000	2.76443e-21	1.00000
Ph+MeAc	1.76860e-21	1.00000	1.76862e-21	1.00000
rad23	8.61307e-22	1.00000	8.61320e-22	1.00000
rad12	1.91645e-22	1.00000	1.91647e-22	1.00000
rad39	3.70378e-23	1.00000	3.70384e-23	1.00000
rad45	5.84413e-24	1.00000	5.84422e-24	1.00000
Ph+Allene	1.91199e-24	1.00000	1.91202e-24	1.00000
rad36	3.62164e-25	1.00000	3.62169e-25	1.00000
rad24	2.94699e-25	1.00000	2.94704e-25	1.00000
rad60syn	2.70844e-26	1.00000	2.70848e-26	1.00000
rad60anti	1.02857e-27	1.00000	1.02859e-27	1.00000
PhCH2CCH+H	4.17204e-36	1.00000	4.17211e-36	1.00000
rad37	4.93855e-37	1.00000	4.93862e-37	1.00000
rad5	3.65853e-40	1.00000	3.65859e-40	1.00000
PAH3+H	7.43036e-45	1.00000	7.43047e-45	1.00000
rad59	3.95449e-45	1.00000	3.95454e-45	1.00000
rad50	1.66632e-45	1.00000	1.66635e-45	1.00000
rad19syn	3.14643e-53	1.00000	3.14648e-53	1.00000
PAH10+CH3	1.43133e-56	1.00000	1.43136e-56	1.00000
rad52	1.25356e-56	1.00000	1.25358e-56	1.00000
rad43	3.40008e-57	1.00000	3.40013e-57	1.00000
rad54	1.13777e-57	1.00000	1.13778e-57	1.00000
rad62	1.51921e-59	1.00000	1.51923e-59	1.00000
rad51	1.00808e-62	1.00000	1.00810e-62	1.00000
rad70	1.54169e-65	1.00000	1.54172e-65	1.00000
PhcycC3H3_A+H	8.37495e-66	1.00000	8.37508e-66	1.00000
rad55	4.32057e-66	1.00000	4.32064e-66	1.00000
rad65	3.46000e-67	1.00000	3.46005e-67	1.00000
rad58	3.45961e-69	1.00000	3.45966e-69	1.00000
PAH1+H	4.32740e-70	1.00000	4.32746e-70	1.00000
rad34	4.69798e-72	1.00000	4.69805e-72	1.00000
rad42	2.32682e-74	1.00000	2.32685e-74	1.00000
rad41	1.25503e-74	1.00000	1.25505e-74	1.00000
rad47	2.40260e-83	1.00000	2.40263e-83	1.00000

0.100000000E-07 Pa, 120.000000 K

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

Total | 5.87106e-37 (1.00) | 5.87094e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999980	0.999980	1.00000	1.00000
Benzyl+C2H2	1.97208e-05	1.00000	0.00000	1.00000
rad6	2.35845e-07	1.00000	2.35850e-07	1.00000
rad2	1.25873e-10	1.00000	1.25875e-10	1.00000
rad35	1.91832e-11	1.00000	1.91836e-11	1.00000
rad7	1.72096e-11	1.00000	1.72100e-11	1.00000
PAH9+H	1.07591e-11	1.00000	1.07593e-11	1.00000
rad1	8.15776e-12	1.00000	8.15792e-12	1.00000
rad30	7.56112e-12	1.00000	7.56127e-12	1.00000
rad10	6.58121e-12	1.00000	6.58134e-12	1.00000
rad11	4.22263e-12	1.00000	4.22272e-12	1.00000
rad28	2.75081e-12	1.00000	2.75086e-12	1.00000
rad3	8.43366e-13	1.00000	8.43383e-13	1.00000
rad38	4.51815e-13	1.00000	4.51824e-13	1.00000
rad4	4.29159e-13	1.00000	4.29167e-13	1.00000
rad26	2.01219e-13	1.00000	2.01223e-13	1.00000
PhCHCCH2+H	1.45453e-13	1.00000	1.45456e-13	1.00000
rad13	9.63389e-14	1.00000	9.63408e-14	1.00000
rad15	4.43409e-14	1.00000	4.43418e-14	1.00000
PhCCH+CH3	4.36732e-14	1.00000	4.36741e-14	1.00000
PhCCCH3+H	1.25527e-14	1.00000	1.25530e-14	1.00000
rad33	1.86396e-16	1.00000	1.86400e-16	1.00000
rad20	7.78050e-18	1.00000	7.78065e-18	1.00000
rad27	5.93098e-18	1.00000	5.93109e-18	1.00000
rad21	4.88553e-18	1.00000	4.88563e-18	1.00000
rad8	4.62038e-18	1.00000	4.62047e-18	1.00000
rad46	2.47624e-19	1.00000	2.47629e-19	1.00000
rad9	2.29244e-19	1.00000	2.29249e-19	1.00000

PAH7+H	8.24695e-20	1.000000	8.24711e-20	1.00000
Ph+MeAc	7.42088e-20	1.000000	7.42103e-20	1.00000
rad25	4.25173e-20	1.000000	4.25182e-20	1.00000
rad18	3.66406e-20	1.000000	3.66414e-20	1.00000
rad14	1.31887e-20	1.000000	1.31890e-20	1.00000
rad12	6.23448e-21	1.000000	6.23461e-21	1.00000
rad31	5.83452e-21	1.000000	5.83463e-21	1.00000
rad22	2.48590e-21	1.000000	2.48595e-21	1.00000
rad39	1.51574e-21	1.000000	1.51577e-21	1.00000
rad23	7.84618e-22	1.000000	7.84633e-22	1.00000
Ph+Allene	1.55527e-22	1.000000	1.55530e-22	1.00000
rad45	6.84605e-24	1.000000	6.84619e-24	1.00000
rad60syn	1.65778e-24	1.000000	1.65782e-24	1.00000
rad36	4.24239e-25	1.000000	4.24248e-25	1.00000
rad24	2.79945e-25	1.000000	2.79950e-25	1.00000
rad60anti	9.96798e-26	1.000000	9.96818e-26	1.00000
PhCH2CCH+H	2.55816e-33	1.000000	2.55821e-33	1.00000
rad37	2.91986e-34	1.000000	2.91992e-34	1.00000
rad5	2.15291e-37	1.000000	2.15295e-37	1.00000
PAH3+H	4.91016e-42	1.000000	4.91026e-42	1.00000
rad59	2.61105e-42	1.000000	2.61110e-42	1.00000
rad50	1.03658e-42	1.000000	1.03660e-42	1.00000
rad19syn	2.38128e-50	1.000000	2.38132e-50	1.00000
PAH10+CH3	1.24197e-53	1.000000	1.24199e-53	1.00000
rad52	1.02182e-53	1.000000	1.02184e-53	1.00000
rad43	2.95231e-54	1.000000	2.95237e-54	1.00000
rad54	9.87330e-55	1.000000	9.87349e-55	1.00000
rad62	1.54427e-56	1.000000	1.54430e-56	1.00000
rad51	1.27538e-59	1.000000	1.27541e-59	1.00000
rad70	2.36630e-62	1.000000	2.36635e-62	1.00000
PhcycC3H3_A+H	1.35063e-62	1.000000	1.35065e-62	1.00000
rad55	6.87306e-63	1.000000	6.87320e-63	1.00000
rad65	5.64248e-64	1.000000	5.64259e-64	1.00000
rad58	5.78815e-66	1.000000	5.78826e-66	1.00000
PAH1+H	1.11121e-66	1.000000	1.11123e-66	1.00000
rad34	1.38116e-68	1.000000	1.38119e-68	1.00000
rad42	7.09169e-71	1.000000	7.09183e-71	1.00000
rad41	3.88408e-71	1.000000	3.88416e-71	1.00000
rad47	5.09842e-80	1.000000	5.09852e-80	1.00000

0.100000000E-07 Pa, 130.000000 K

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

Total | 3.94360e-35 (1.00) | 3.94350e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999974	0.999974	1.00000	1.00000
Benzyl+C2H2	2.58461e-05	1.000000	0.00000	1.00000
rad6	1.84318e-07	1.00000	1.84323e-07	1.00000
rad2	1.01707e-10	1.00000	1.01709e-10	1.00000
rad35	2.64326e-11	1.00000	2.64332e-11	1.00000
rad30	1.97587e-11	1.00000	1.97592e-11	1.00000
PAH9+H	1.71416e-11	1.00000	1.71421e-11	1.00000
rad7	1.34733e-11	1.00000	1.34736e-11	1.00000
rad1	6.62010e-12	1.00000	6.62027e-12	1.00000
rad10	5.85146e-12	1.00000	5.85161e-12	1.00000
rad28	5.28054e-12	1.00000	5.28068e-12	1.00000
rad11	3.30780e-12	1.00000	3.30788e-12	1.00000
rad38	9.21165e-13	1.00000	9.21189e-13	1.00000
PhCHCCH2+H	7.98492e-13	1.00000	7.98512e-13	1.00000
rad3	7.45831e-13	1.00000	7.45851e-13	1.00000
rad26	4.15386e-13	1.00000	4.15397e-13	1.00000
rad4	3.79968e-13	1.00000	3.79978e-13	1.00000
PhCCH+CH3	2.99539e-13	1.00000	2.99547e-13	1.00000
rad15	1.80343e-13	1.00000	1.80347e-13	1.00000
PhCCCH3+H	9.18002e-14	1.00000	9.18025e-14	1.00000
rad13	7.55044e-14	1.00000	7.55063e-14	1.00000
rad33	1.46561e-16	1.00000	1.46564e-16	1.00000
rad8	5.39518e-17	1.00000	5.39532e-17	1.00000
rad27	9.78454e-18	1.00000	9.78479e-18	1.00000
rad20	6.85873e-18	1.00000	6.85890e-18	1.00000
rad21	4.31174e-18	1.00000	4.31185e-18	1.00000
rad9	3.66948e-18	1.00000	3.66957e-18	1.00000
rad46	1.89879e-18	1.00000	1.89884e-18	1.00000
Ph+MeAc	1.77040e-18	1.00000	1.77044e-18	1.00000
PAH7+H	1.45554e-18	1.00000	1.45558e-18	1.00000
rad25	1.19679e-19	1.00000	1.19682e-19	1.00000
rad12	1.18342e-19	1.00000	1.18345e-19	1.00000

rad14	4.32515e-20	1.00000	4.32526e-20	1.00000
rad39	3.50984e-20	1.00000	3.50993e-20	1.00000
rad18	3.22264e-20	1.00000	3.22273e-20	1.00000
Ph+Allene	5.85931e-21	1.00000	5.85946e-21	1.00000
rad31	5.17527e-21	1.00000	5.17541e-21	1.00000
rad22	2.17537e-21	1.00000	2.17542e-21	1.00000
rad23	7.32877e-22	1.00000	7.32896e-22	1.00000
rad60syn	5.24603e-23	1.00000	5.24617e-23	1.00000
rad45	6.20408e-24	1.00000	6.20424e-24	1.00000
rad60anti	4.01382e-24	1.00000	4.01392e-24	1.00000
rad36	3.84501e-25	1.00000	3.84510e-25	1.00000
rad24	2.68637e-25	1.00000	2.68644e-25	1.00000
PhCH2CCH+H	1.64592e-25	1.00000	1.64596e-25	1.00000
rad37	3.40646e-26	1.00000	3.40655e-26	1.00000
rad5	1.70893e-34	1.00000	1.70897e-34	1.00000
PAH3+H	4.27233e-39	1.00000	4.27244e-39	1.00000
rad59	2.26986e-39	1.00000	2.26992e-39	1.00000
rad50	8.46822e-40	1.00000	8.46844e-40	1.00000
rad19syn	2.17177e-47	1.00000	2.17182e-47	1.00000
PAH10+CH3	9.32405e-51	1.00000	9.32429e-51	1.00000
rad52	8.26514e-51	1.00000	8.26535e-51	1.00000
rad43	2.21754e-51	1.00000	2.21759e-51	1.00000
rad54	8.67916e-52	1.00000	8.67938e-52	1.00000
rad62	1.35000e-53	1.00000	1.35004e-53	1.00000
rad51	1.51057e-56	1.00000	1.51061e-56	1.00000
rad70	3.12334e-59	1.00000	3.12342e-59	1.00000
PhcycC3H3_A+H	1.87300e-59	1.00000	1.87305e-59	1.00000
rad55	9.38175e-60	1.00000	9.38200e-60	1.00000
rad65	8.59859e-61	1.00000	8.59881e-61	1.00000
rad58	8.32627e-63	1.00000	8.32649e-63	1.00000
PAH1+H	2.46337e-63	1.00000	2.46343e-63	1.00000
rad34	3.51992e-65	1.00000	3.52001e-65	1.00000
rad42	1.85845e-67	1.00000	1.85850e-67	1.00000
rad41	1.02311e-67	1.00000	1.02313e-67	1.00000
rad47	1.01706e-76	1.00000	1.01709e-76	1.00000

0.100000000E-07 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.44756e-33 (1.00)	1.44751e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999966	0.999966	1.00000	1.00000
Benzyl+C2H2	3.37324e-05	1.00000	0.00000	1.00000
rad6	1.45098e-07	1.00000	1.45103e-07	1.00000
rad2	1.07375e-10	1.00000	1.07379e-10	1.00000
rad30	4.53772e-11	1.00000	4.53788e-11	1.00000
rad35	3.60275e-11	1.00000	3.60287e-11	1.00000
PAH9+H	2.63418e-11	1.00000	2.63427e-11	1.00000
rad7	1.06257e-11	1.00000	1.06260e-11	1.00000
rad28	8.94079e-12	1.00000	8.94109e-12	1.00000
rad1	7.02228e-12	1.00000	7.02252e-12	1.00000
rad10	4.98675e-12	1.00000	4.98691e-12	1.00000
PhCHCCH2+H	3.50335e-12	1.00000	3.50347e-12	1.00000
rad11	2.61029e-12	1.00000	2.61038e-12	1.00000
rad38	1.74091e-12	1.00000	1.74097e-12	1.00000
PhCCH+CH3	1.58803e-12	1.00000	1.58809e-12	1.00000
rad3	8.13368e-13	1.00000	8.13396e-13	1.00000
rad26	7.48573e-13	1.00000	7.48598e-13	1.00000
rad15	6.03455e-13	1.00000	6.03475e-13	1.00000
PhCCCH3+H	5.12507e-13	1.00000	5.12524e-13	1.00000
rad4	4.14905e-13	1.00000	4.14919e-13	1.00000
rad13	5.96141e-14	1.00000	5.96161e-14	1.00000
rad8	4.45598e-16	1.00000	4.45613e-16	1.00000
rad33	1.16117e-16	1.00000	1.16121e-16	1.00000
rad9	3.97527e-17	1.00000	3.97541e-17	1.00000
Ph+MeAc	2.71366e-17	1.00000	2.71376e-17	1.00000
PAH7+H	1.70357e-17	1.00000	1.70363e-17	1.00000
rad27	1.45690e-17	1.00000	1.45695e-17	1.00000
rad46	1.09715e-17	1.00000	1.09719e-17	1.00000
rad20	6.07995e-18	1.00000	6.08015e-18	1.00000
rad21	3.82696e-18	1.00000	3.82709e-18	1.00000
rad12	1.47310e-18	1.00000	1.47315e-18	1.00000
rad39	5.20783e-19	1.00000	5.20801e-19	1.00000
rad25	2.81476e-19	1.00000	2.81485e-19	1.00000
Ph+Allene	1.30388e-19	1.00000	1.30392e-19	1.00000
rad14	1.15929e-19	1.00000	1.15933e-19	1.00000
rad18	2.84825e-20	1.00000	2.84835e-20	1.00000

rad31	4.61011e-21	1.000000	4.61026e-21	1.00000
rad22	1.91207e-21	1.000000	1.91214e-21	1.00000
rad60syn	1.00452e-21	1.000000	1.00456e-21	1.00000
rad23	7.03066e-22	1.000000	7.03089e-22	1.00000
rad60anti	9.33602e-23	1.000000	9.33634e-23	1.00000
PhCH2CCH+H	1.18692e-23	1.000000	1.18696e-23	1.00000
rad45	7.57143e-24	1.000000	7.57168e-24	1.00000
rad37	3.38835e-24	1.000000	3.38846e-24	1.00000
rad36	4.69433e-25	1.000000	4.69449e-25	1.00000
rad24	2.60061e-25	1.000000	2.60070e-25	1.00000
rad5	6.97171e-27	1.000000	6.97195e-27	1.00000
PAH3+H	1.15604e-28	1.000000	1.15608e-28	1.00000
rad59	5.78020e-29	1.000000	5.78040e-29	1.00000
rad50	7.59925e-30	1.000000	7.59951e-30	1.00000
rad19syn	1.46661e-44	1.000000	1.46666e-44	1.00000
rad52	4.36609e-48	1.000000	4.36624e-48	1.00000
PAH10+CH3	4.36082e-48	1.000000	4.36097e-48	1.00000
rad43	1.03733e-48	1.000000	1.03736e-48	1.00000
rad54	5.32697e-49	1.000000	5.32715e-49	1.00000
rad62	7.28933e-51	1.000000	7.28957e-51	1.00000
rad51	1.10700e-53	1.000000	1.10704e-53	1.00000
rad70	2.52072e-56	1.000000	2.52081e-56	1.00000
PhcycC3H3_A+H	1.58944e-56	1.000000	1.58949e-56	1.00000
rad55	7.81783e-57	1.000000	7.81809e-57	1.00000
rad65	8.14333e-58	1.000000	8.14360e-58	1.00000
rad58	7.33100e-60	1.000000	7.33125e-60	1.00000
PAH1+H	3.34204e-60	1.000000	3.34215e-60	1.00000
rad34	5.48113e-62	1.000000	5.48131e-62	1.00000
rad42	3.01462e-64	1.000000	3.01472e-64	1.00000
rad41	1.65091e-64	1.000000	1.65096e-64	1.00000
rad47	1.27344e-73	1.000000	1.27348e-73	1.00000

0.100000000E-07 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27722e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999956	0.999956	1.00000	1.00000
Benzyl+C2H2	4.38587e-05	1.000000	0.00000	1.00000
rad6	1.14871e-07	1.000000	1.14876e-07	1.00000
rad30	9.42303e-11	1.000000	9.42344e-11	1.00000
rad2	6.64426e-11	1.000000	6.64455e-11	1.00000
rad35	4.87934e-11	1.000000	4.87956e-11	1.00000
PAH9+H	3.94532e-11	1.000000	3.94549e-11	1.00000
rad28	1.36929e-11	1.000000	1.36935e-11	1.00000
PhCHCCH2+H	1.28535e-11	1.000000	1.28540e-11	1.00000
rad7	8.42791e-12	1.000000	8.42828e-12	1.00000
PhCCH+CH3	6.85519e-12	1.000000	6.85549e-12	1.00000
rad1	4.36763e-12	1.000000	4.36782e-12	1.00000
rad10	3.74892e-12	1.000000	3.74909e-12	1.00000
rad38	3.10719e-12	1.000000	3.10732e-12	1.00000
PhCCCH3+H	2.30617e-12	1.000000	2.30627e-12	1.00000
rad11	2.07173e-12	1.000000	2.07182e-12	1.00000
rad15	1.73107e-12	1.000000	1.73115e-12	1.00000
rad26	1.21020e-12	1.000000	1.21026e-12	1.00000
rad3	4.21497e-13	1.000000	4.21515e-13	1.00000
rad4	2.15310e-13	1.000000	2.15320e-13	1.00000
rad13	4.73406e-14	1.000000	4.73427e-14	1.00000
rad8	2.79165e-15	1.000000	2.79177e-15	1.00000
rad9	3.15307e-16	1.000000	3.15321e-16	1.00000
Ph+MeAc	2.92026e-16	1.000000	2.92039e-16	1.00000
PAH7+H	1.43745e-16	1.000000	1.43751e-16	1.00000
rad33	9.25522e-17	1.000000	9.25562e-17	1.00000
rad46	5.06729e-17	1.000000	5.06751e-17	1.00000
rad27	1.99868e-17	1.000000	1.99877e-17	1.00000
rad12	1.30971e-17	1.000000	1.30976e-17	1.00000
rad39	5.41967e-18	1.000000	5.41990e-18	1.00000
rad20	5.41421e-18	1.000000	5.41445e-18	1.00000
rad21	3.41253e-18	1.000000	3.41268e-18	1.00000
Ph+Allene	1.93212e-18	1.000000	1.93221e-18	1.00000
rad25	5.73447e-19	1.000000	5.73472e-19	1.00000
rad14	2.64457e-19	1.000000	2.64469e-19	1.00000
rad18	2.52697e-20	1.000000	2.52708e-20	1.00000
rad60syn	1.29362e-20	1.000000	1.29368e-20	1.00000
rad31	4.12320e-21	1.000000	4.12338e-21	1.00000
rad22	1.68626e-21	1.000000	1.68634e-21	1.00000
rad60anti	1.42014e-21	1.000000	1.42020e-21	1.00000

rad23	6.96400e-22	1.000000	6.96430e-22	1.00000
PhCH2CCH+H	3.70705e-22	1.000000	3.70721e-22	1.00000
rad37	1.02531e-22	1.000000	1.02535e-22	1.00000
rad45	7.95299e-24	1.000000	7.95334e-24	1.00000
rad36	4.93361e-25	1.000000	4.93383e-25	1.00000
rad5	3.31296e-25	1.000000	3.31311e-25	1.00000
rad24	2.53730e-25	1.000000	2.53741e-25	1.00000
PAH3+H	1.81874e-26	1.000000	1.81882e-26	1.00000
rad59	8.19792e-27	1.000000	8.19828e-27	1.00000
rad50	5.49371e-28	1.000000	5.49395e-28	1.00000
rad19syn	2.97402e-41	1.000000	2.97415e-41	1.00000
rad52	5.08447e-45	1.000000	5.08469e-45	1.00000
PAH10+CH3	2.77463e-45	1.000000	2.77475e-45	1.00000
rad54	8.65299e-46	1.000000	8.65337e-46	1.00000
rad43	6.57134e-46	1.000000	6.57163e-46	1.00000
rad62	4.99916e-48	1.000000	4.99938e-48	1.00000
rad51	1.15983e-50	1.000000	1.15988e-50	1.00000
rad70	2.34405e-53	1.000000	2.34415e-53	1.00000
PhcycC3H3_A+H	1.51492e-53	1.000000	1.51499e-53	1.00000
rad55	7.36474e-54	1.000000	7.36506e-54	1.00000
rad65	1.07919e-54	1.000000	1.07924e-54	1.00000
rad58	7.17782e-57	1.000000	7.17813e-57	1.00000
PAH1+H	4.37525e-57	1.000000	4.37544e-57	1.00000
rad34	7.85937e-59	1.000000	7.85971e-59	1.00000
rad42	5.31534e-61	1.000000	5.31557e-61	1.00000
rad41	2.97642e-61	1.000000	2.97655e-61	1.00000
rad47	2.22231e-70	1.000000	2.22241e-70	1.00000

0.100000000E-07 Pa, 160.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01140e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999943	0.999943	1.00000	1.00000
Benzyl+C2H2	5.68170e-05	1.000000	0.00000	1.00000
rad6	9.13399e-08	1.000000	9.13451e-08	1.00000
rad30	1.80711e-10	1.000000	1.80721e-10	1.00000
rad2	7.37042e-11	1.000000	7.37084e-11	1.00000
rad35	6.58346e-11	1.000000	6.58383e-11	1.00000
PAH9+H	5.80044e-11	1.000000	5.80077e-11	1.00000
PhCHCCH2+H	4.07908e-11	1.000000	4.07931e-11	1.00000
PhCCH+CH3	2.50501e-11	1.000000	2.50515e-11	1.00000
rad28	1.93288e-11	1.000000	1.93299e-11	1.00000
PhCCCH3+H	8.71075e-12	1.000000	8.71125e-12	1.00000
rad7	6.71452e-12	1.000000	6.71490e-12	1.00000
rad38	5.30696e-12	1.000000	5.30726e-12	1.00000
rad1	4.87237e-12	1.000000	4.87264e-12	1.00000
rad15	4.38964e-12	1.000000	4.38989e-12	1.00000
rad10	3.40705e-12	1.000000	3.40724e-12	1.00000
rad26	1.79125e-12	1.000000	1.79136e-12	1.00000
rad11	1.65166e-12	1.000000	1.65175e-12	1.00000
rad3	5.34163e-13	1.000000	5.34193e-13	1.00000
rad4	2.73284e-13	1.000000	2.73299e-13	1.00000
rad13	3.77638e-14	1.000000	3.77660e-14	1.00000
rad8	1.39807e-14	1.000000	1.39815e-14	1.00000
Ph+MeAc	2.35651e-15	1.000000	2.35664e-15	1.00000
rad9	1.94217e-15	1.000000	1.94228e-15	1.00000
PAH7+H	9.30879e-16	1.000000	9.30932e-16	1.00000
rad46	1.95509e-16	1.000000	1.95521e-16	1.00000
rad12	8.86556e-17	1.000000	8.86607e-17	1.00000
rad33	7.41214e-17	1.000000	7.41256e-17	1.00000
rad39	4.23057e-17	1.000000	4.23081e-17	1.00000
rad27	2.56540e-17	1.000000	2.56554e-17	1.00000
Ph+Allene	2.05972e-17	1.000000	2.05983e-17	1.00000
rad20	4.83966e-18	1.000000	4.83993e-18	1.00000
rad21	3.05483e-18	1.000000	3.05500e-18	1.00000
rad25	1.03962e-18	1.000000	1.03968e-18	1.00000
rad14	5.29202e-19	1.000000	5.29232e-19	1.00000
rad60syn	1.20851e-19	1.000000	1.20858e-19	1.00000
rad18	2.24864e-20	1.000000	2.24877e-20	1.00000
rad60anti	1.53286e-20	1.000000	1.53294e-20	1.00000
PhCH2CCH+H	7.07506e-21	1.000000	7.07546e-21	1.00000
rad31	3.75035e-21	1.000000	3.75056e-21	1.00000
rad37	1.92371e-21	1.000000	1.92382e-21	1.00000
rad22	1.49083e-21	1.000000	1.49091e-21	1.00000
rad23	7.15198e-22	1.000000	7.15238e-22	1.00000
rad45	1.00861e-23	1.000000	1.00867e-23	1.00000

rad5	7.57862e-24	1.000000	7.57905e-24	1.00000
rad36	6.26224e-25	1.000000	6.26260e-25	1.00000
PAH3+H	5.45434e-25	1.000000	5.45465e-25	1.00000
rad24	2.49313e-25	1.000000	2.49327e-25	1.00000
rad59	2.30298e-25	1.000000	2.30311e-25	1.00000
rad50	1.44925e-26	1.000000	1.44934e-26	1.00000
rad19syn	3.66145e-38	1.000000	3.66166e-38	1.00000
rad52	4.66836e-42	1.000000	4.66862e-42	1.00000
PAH10+CH3	1.37430e-42	1.000000	1.37438e-42	1.00000
rad54	1.04657e-42	1.000000	1.04663e-42	1.00000
rad43	3.21717e-43	1.000000	3.21735e-43	1.00000
rad62	2.33467e-45	1.000000	2.33480e-45	1.00000
rad51	6.68076e-48	1.000000	6.68114e-48	1.00000
rad70	1.33435e-50	1.000000	1.33443e-50	1.00000
PhcycC3H3_A+H	8.52144e-51	1.000000	8.52192e-51	1.00000
rad55	4.13517e-51	1.000000	4.13541e-51	1.00000
rad65	7.52093e-52	1.000000	7.52136e-52	1.00000
rad58	4.07351e-54	1.000000	4.07374e-54	1.00000
PAH1+H	2.97695e-54	1.000000	2.97712e-54	1.00000
rad34	5.75684e-56	1.000000	5.75717e-56	1.00000
rad42	4.98169e-58	1.000000	4.98197e-58	1.00000
rad41	2.88106e-58	1.000000	2.88122e-58	1.00000
rad47	2.05177e-67	1.000000	2.05189e-67	1.00000

0.100000000E-07 Pa, 170.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54780e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999927	0.999927	1.00000	1.00000
Benzyl+C2H2	7.33329e-05	1.00000	0.00000	1.00000
rad6	7.28739e-08	1.00000	7.28793e-08	1.00000
rad30	3.25169e-10	1.00000	3.25193e-10	1.00000
PhCHCCH2+H	1.14889e-10	1.00000	1.14898e-10	1.00000
rad35	8.86104e-11	1.00000	8.86169e-11	1.00000
PAH9+H	8.41121e-11	1.00000	8.41183e-11	1.00000
PhCCH+CH3	7.98132e-11	1.00000	7.98190e-11	1.00000
rad2	4.74786e-11	1.00000	4.74820e-11	1.00000
PhCCCH3+H	2.84864e-11	1.00000	2.84885e-11	1.00000
rad28	2.55100e-11	1.00000	2.55119e-11	1.00000
rad15	1.00714e-11	1.00000	1.00722e-11	1.00000
rad38	8.75582e-12	1.00000	8.75646e-12	1.00000
rad7	5.36782e-12	1.00000	5.36821e-12	1.00000
rad1	3.15755e-12	1.00000	3.15778e-12	1.00000
rad10	2.71020e-12	1.00000	2.71039e-12	1.00000
rad26	2.46523e-12	1.00000	2.46541e-12	1.00000
rad11	1.32133e-12	1.00000	1.32143e-12	1.00000
rad3	3.07382e-13	1.00000	3.07404e-13	1.00000
rad4	1.57522e-13	1.00000	1.57533e-13	1.00000
rad8	5.82574e-14	1.00000	5.82616e-14	1.00000
rad13	3.02297e-14	1.00000	3.02319e-14	1.00000
Ph+MeAc	1.49961e-14	1.00000	1.49972e-14	1.00000
rad9	9.71803e-15	1.00000	9.71874e-15	1.00000
PAH7+H	4.85293e-15	1.00000	4.85329e-15	1.00000
rad46	6.51676e-16	1.00000	6.51724e-16	1.00000
rad12	4.79733e-16	1.00000	4.79768e-16	1.00000
rad39	2.60728e-16	1.00000	2.60747e-16	1.00000
Ph+Allene	1.67494e-16	1.00000	1.67506e-16	1.00000
rad33	5.95850e-17	1.00000	5.95894e-17	1.00000
rad27	3.11696e-17	1.00000	3.11719e-17	1.00000
rad20	4.33990e-18	1.00000	4.34022e-18	1.00000
rad21	2.74367e-18	1.00000	2.74388e-18	1.00000
rad25	1.71199e-18	1.00000	1.71211e-18	1.00000
rad14	9.50614e-19	1.00000	9.50684e-19	1.00000
rad60syn	8.67681e-19	1.00000	8.67744e-19	1.00000
rad60anti	1.24865e-19	1.00000	1.24875e-19	1.00000
PhCH2CCH+H	9.53113e-20	1.00000	9.53183e-20	1.00000
rad37	2.51871e-20	1.00000	2.51889e-20	1.00000
rad18	2.00568e-20	1.00000	2.00582e-20	1.00000
rad31	3.41676e-21	1.00000	3.41701e-21	1.00000
rad22	1.32045e-21	1.00000	1.32055e-21	1.00000
rad23	7.65045e-22	1.00000	7.65101e-22	1.00000
rad5	1.17217e-22	1.00000	1.17225e-22	1.00000
rad45	1.02905e-23	1.00000	1.02912e-23	1.00000
PAH3+H	1.00146e-23	1.00000	1.00154e-23	1.00000
rad59	4.07844e-24	1.00000	4.07874e-24	1.00000
rad36	6.39667e-25	1.00000	6.39714e-25	1.00000

rad50	2.47924e-25	1.00000	2.47942e-25	1.00000
rad24	2.46591e-25	1.00000	2.46609e-25	1.00000
rad19syn	3.67674e-29	1.00000	3.67701e-29	1.00000
rad52	2.29678e-31	1.00000	2.29695e-31	1.00000
rad54	8.12228e-40	1.00000	8.12287e-40	1.00000
PAH10+CH3	6.62224e-40	1.00000	6.62272e-40	1.00000
rad43	1.53227e-40	1.00000	1.53238e-40	1.00000
rad62	9.67410e-43	1.00000	9.67481e-43	1.00000
rad51	2.43414e-45	1.00000	2.43432e-45	1.00000
rad70	5.74446e-48	1.00000	5.74488e-48	1.00000
PhcycC3H3_A+H	3.41945e-48	1.00000	3.41970e-48	1.00000
rad55	1.68815e-48	1.00000	1.68827e-48	1.00000
rad65	2.93276e-49	1.00000	2.93297e-49	1.00000
rad58	1.58246e-51	1.00000	1.58258e-51	1.00000
PAH1+H	1.12917e-51	1.00000	1.12925e-51	1.00000
rad34	2.29572e-53	1.00000	2.29589e-53	1.00000
rad42	2.62282e-55	1.00000	2.62302e-55	1.00000
rad41	1.58287e-55	1.00000	1.58299e-55	1.00000
rad47	1.04851e-64	1.00000	1.04858e-64	1.00000

0.1000000000E-07 Pa, 180.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	4.69315e-29 (1.00)	4.69271e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999906	0.999906	1.00000	1.00000
Benzyl+C2H2	9.42882e-05	1.00000	0.00000	1.00000
rad6	5.82896e-08	1.00000	5.82951e-08	1.00000
rad30	5.55653e-10	1.00000	5.55705e-10	1.00000
PhCHCCH2+H	2.92963e-10	1.00000	2.92990e-10	1.00000
PhCCH+CH3	2.26858e-10	1.00000	2.26879e-10	1.00000
PAH9+H	1.20677e-10	1.00000	1.20689e-10	1.00000
rad35	1.19033e-10	1.00000	1.19045e-10	1.00000
PhCCCH3+H	8.26148e-11	1.00000	8.26226e-11	1.00000
rad2	6.56724e-11	1.00000	6.56785e-11	1.00000
rad28	3.18290e-11	1.00000	3.18320e-11	1.00000
rad15	2.12854e-11	1.00000	2.12874e-11	1.00000
rad38	1.40492e-11	1.00000	1.40505e-11	1.00000
rad1	4.39653e-12	1.00000	4.39695e-12	1.00000
rad7	4.30245e-12	1.00000	4.30285e-12	1.00000
rad26	3.19276e-12	1.00000	3.19306e-12	1.00000
rad10	2.56383e-12	1.00000	2.56407e-12	1.00000
rad11	1.05987e-12	1.00000	1.05997e-12	1.00000
rad3	4.81749e-13	1.00000	4.81794e-13	1.00000
rad4	2.47334e-13	1.00000	2.47357e-13	1.00000
rad8	2.08375e-13	1.00000	2.08395e-13	1.00000
Ph+MeAc	7.82673e-14	1.00000	7.82747e-14	1.00000
rad9	4.09070e-14	1.00000	4.09108e-14	1.00000
rad13	2.42636e-14	1.00000	2.42659e-14	1.00000
PAH7+H	2.11364e-14	1.00000	2.11384e-14	1.00000
rad12	2.15518e-15	1.00000	2.15538e-15	1.00000
rad46	1.92593e-15	1.00000	1.92612e-15	1.00000
rad39	1.32011e-15	1.00000	1.32023e-15	1.00000
Ph+Allene	1.08715e-15	1.00000	1.08725e-15	1.00000
rad33	4.80425e-17	1.00000	4.80471e-17	1.00000
rad27	3.61742e-17	1.00000	3.61776e-17	1.00000
rad60syn	5.00699e-18	1.00000	5.00746e-18	1.00000
rad20	3.90247e-18	1.00000	3.90284e-18	1.00000
rad25	2.60185e-18	1.00000	2.60210e-18	1.00000
rad21	2.47128e-18	1.00000	2.47152e-18	1.00000
rad14	1.56052e-18	1.00000	1.56067e-18	1.00000
PhCH2CCH+H	9.66854e-19	1.00000	9.66946e-19	1.00000
rad60anti	8.05149e-19	1.00000	8.05224e-19	1.00000
rad37	2.45036e-19	1.00000	2.45059e-19	1.00000
rad18	1.79229e-20	1.00000	1.79245e-20	1.00000
rad31	3.15373e-21	1.00000	3.15402e-21	1.00000
rad5	1.33540e-21	1.00000	1.33553e-21	1.00000
rad22	1.17107e-21	1.00000	1.17118e-21	1.00000
rad23	8.57175e-22	1.00000	8.57256e-22	1.00000
PAH3+H	1.31623e-22	1.00000	1.31635e-22	1.00000
rad59	5.19690e-23	1.00000	5.19739e-23	1.00000
rad45	1.40713e-23	1.00000	1.40726e-23	1.00000
rad50	3.08696e-24	1.00000	3.08725e-24	1.00000
rad36	8.75945e-25	1.00000	8.76028e-25	1.00000
rad24	2.45424e-25	1.00000	2.45447e-25	1.00000
rad19syn	4.66138e-27	1.00000	4.66182e-27	1.00000
rad52	1.37731e-29	1.00000	1.37744e-29	1.00000

rad54	8.06868e-37	1.00000	8.06944e-37	1.00000
PAH10+CH3	5.46501e-37	1.00000	5.46553e-37	1.00000
rad43	1.25902e-37	1.00000	1.25914e-37	1.00000
rad62	7.19412e-40	1.00000	7.19479e-40	1.00000
rad51	1.15313e-42	1.00000	1.15324e-42	1.00000
rad70	3.98152e-45	1.00000	3.98189e-45	1.00000
PhcycC3H3_A+H	2.07643e-45	1.00000	2.07662e-45	1.00000
rad55	1.07056e-45	1.00000	1.07066e-45	1.00000
rad65	9.17372e-47	1.00000	9.17459e-47	1.00000
rad58	8.58339e-49	1.00000	8.58420e-49	1.00000
PAH1+H	2.99042e-49	1.00000	2.99070e-49	1.00000
rad34	5.91558e-51	1.00000	5.91614e-51	1.00000
rad42	9.21761e-53	1.00000	9.21848e-53	1.00000
rad41	5.89569e-53	1.00000	5.89625e-53	1.00000
rad47	3.85148e-62	1.00000	3.85184e-62	1.00000

0.100000000E-07 Pa, 190.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	3.16530e-28 (1.00)		3.16492e-28 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.999879	0.999879	1.00000	1.00000
Benzyl+C2H2	0.000120746	1.00000	0.00000	1.00000
rad6	4.67121e-08	1.00000	4.67178e-08	1.00000
rad30	9.10077e-10	1.00000	9.10187e-10	1.00000
PhCHCCH2+H	6.86965e-10	1.00000	6.87048e-10	1.00000
PhCCH+CH3	5.85653e-10	1.00000	5.85723e-10	1.00000
PhCCH3+H	2.16525e-10	1.00000	2.16551e-10	1.00000
PAH9+H	1.71637e-10	1.00000	1.71658e-10	1.00000
rad35	1.59590e-10	1.00000	1.59609e-10	1.00000
rad15	4.20213e-11	1.00000	4.20264e-11	1.00000
rad2	3.88050e-11	1.00000	3.88097e-11	1.00000
rad28	3.78724e-11	1.00000	3.78770e-11	1.00000
rad38	2.20307e-11	1.00000	2.20334e-11	1.00000
rad26	3.92809e-12	1.00000	3.92857e-12	1.00000
rad7	3.45527e-12	1.00000	3.45569e-12	1.00000
rad1	2.61658e-12	1.00000	2.61690e-12	1.00000
rad10	2.14587e-12	1.00000	2.14613e-12	1.00000
rad11	8.51837e-13	1.00000	8.51939e-13	1.00000
rad8	6.55644e-13	1.00000	6.55724e-13	1.00000
Ph+MeAc	3.45556e-13	1.00000	3.45597e-13	1.00000
rad3	2.02266e-13	1.00000	2.02290e-13	1.00000
rad9	1.48910e-13	1.00000	1.48928e-13	1.00000
rad4	1.04051e-13	1.00000	1.04064e-13	1.00000
PAH7+H	7.91866e-14	1.00000	7.91962e-14	1.00000
rad13	1.95145e-14	1.00000	1.95168e-14	1.00000
rad12	8.28114e-15	1.00000	8.28214e-15	1.00000
Ph+Allene	5.83723e-15	1.00000	5.83794e-15	1.00000
rad39	5.66588e-15	1.00000	5.66657e-15	1.00000
rad46	5.15013e-15	1.00000	5.15075e-15	1.00000
rad27	4.03873e-17	1.00000	4.03921e-17	1.00000
rad33	3.88274e-17	1.00000	3.88321e-17	1.00000
rad60syn	2.40561e-17	1.00000	2.40590e-17	1.00000
PhCH2CCH+H	7.73355e-18	1.00000	7.73448e-18	1.00000
rad60anti	4.26710e-18	1.00000	4.26761e-18	1.00000
rad25	3.69544e-18	1.00000	3.69588e-18	1.00000
rad20	3.51764e-18	1.00000	3.51806e-18	1.00000
rad14	2.37430e-18	1.00000	2.37459e-18	1.00000
rad21	2.23161e-18	1.00000	2.23188e-18	1.00000
rad37	1.85740e-18	1.00000	1.85763e-18	1.00000
rad18	1.60396e-20	1.00000	1.60416e-20	1.00000
rad5	1.17921e-20	1.00000	1.17936e-20	1.00000
rad31	2.92082e-21	1.00000	2.92117e-21	1.00000
PAH3+H	1.32122e-21	1.00000	1.32138e-21	1.00000
rad22	1.03953e-21	1.00000	1.03965e-21	1.00000
rad23	1.00657e-21	1.00000	1.00669e-21	1.00000
rad59	5.06390e-22	1.00000	5.06451e-22	1.00000
rad50	2.96740e-23	1.00000	2.96776e-23	1.00000
rad45	1.81919e-23	1.00000	1.81941e-23	1.00000
rad36	1.13441e-24	1.00000	1.13455e-24	1.00000
rad24	2.45741e-25	1.00000	2.45771e-25	1.00000
rad19syn	1.22411e-25	1.00000	1.22426e-25	1.00000
rad54	5.45682e-28	1.00000	5.45748e-28	1.00000
PAH10+CH3	3.67387e-28	1.00000	3.67432e-28	1.00000
rad52	3.13061e-28	1.00000	3.13098e-28	1.00000
rad43	8.93613e-29	1.00000	8.93721e-29	1.00000
rad62	4.15621e-30	1.00000	4.15672e-30	1.00000

rad51	2.56194e-31	1.000000	2.56225e-31	1.00000
rad70	7.96539e-42	1.000000	7.96636e-42	1.00000
PhcycC3H3_A+H	3.95378e-42	1.000000	3.95426e-42	1.00000
rad55	2.07908e-42	1.000000	2.07933e-42	1.00000
rad65	5.51260e-44	1.000000	5.51327e-44	1.00000
rad58	1.52825e-45	1.000000	1.52844e-45	1.00000
PAH1+H	1.34032e-46	1.000000	1.34048e-46	1.00000
rad34	1.87868e-48	1.000000	1.87890e-48	1.00000
rad42	2.99124e-50	1.000000	2.99160e-50	1.00000
rad41	2.03940e-50	1.000000	2.03965e-50	1.00000
rad47	1.45209e-59	1.000000	1.45227e-59	1.00000

0.100000000E-07 Pa, 200.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76088e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999846	0.999846	1.00000	1.00000
Benzyl+C2H2	0.000153979	1.000000	0.00000	1.00000
rad6	3.74850e-08	1.000000	3.74908e-08	1.00000
PhCHCCH2+H	1.49977e-09	1.000000	1.50000e-09	1.00000
rad30	1.43889e-09	1.000000	1.43911e-09	1.00000
PhCCH+CH3	1.39291e-09	1.000000	1.39312e-09	1.00000
PhCCCH3+H	5.20607e-10	1.000000	5.20687e-10	1.00000
PAH9+H	2.42288e-10	1.000000	2.42326e-10	1.00000
rad35	2.13492e-10	1.000000	2.13525e-10	1.00000
rad15	7.83498e-11	1.000000	7.83619e-11	1.00000
rad28	4.32741e-11	1.000000	4.32808e-11	1.00000
rad38	3.38822e-11	1.000000	3.38874e-11	1.00000
rad2	1.88751e-11	1.000000	1.88780e-11	1.00000
rad26	4.62564e-12	1.000000	4.62636e-12	1.00000
rad7	2.77886e-12	1.000000	2.77929e-12	1.00000
rad8	1.85062e-12	1.000000	1.85090e-12	1.00000
rad10	1.53970e-12	1.000000	1.53993e-12	1.00000
Ph+MeAc	1.32297e-12	1.000000	1.32317e-12	1.00000
rad1	1.28263e-12	1.000000	1.28283e-12	1.00000
rad11	6.85641e-13	1.000000	6.85746e-13	1.00000
rad9	4.79210e-13	1.000000	4.79283e-13	1.00000
rad3	3.94688e-13	1.000000	3.94749e-13	1.00000
PAH7+H	2.61205e-13	1.000000	2.61245e-13	1.00000
rad4	2.03488e-13	1.000000	2.03520e-13	1.00000
rad12	2.78699e-14	1.000000	2.78742e-14	1.00000
Ph+Allene	2.66782e-14	1.000000	2.66823e-14	1.00000
rad39	2.11359e-14	1.000000	2.11392e-14	1.00000
rad13	1.57184e-14	1.000000	1.57208e-14	1.00000
rad46	1.26631e-14	1.000000	1.26650e-14	1.00000
rad60syn	9.89774e-17	1.000000	9.89927e-17	1.00000
PhCH2CCH+H	5.05404e-17	1.000000	5.05481e-17	1.00000
rad27	4.36239e-17	1.000000	4.36306e-17	1.00000
rad33	3.14383e-17	1.000000	3.14431e-17	1.00000
rad60anti	1.91539e-17	1.000000	1.91569e-17	1.00000
rad37	1.13915e-17	1.000000	1.13933e-17	1.00000
rad25	4.95447e-18	1.000000	4.95523e-18	1.00000
rad14	3.38600e-18	1.000000	3.38652e-18	1.00000
rad20	3.17770e-18	1.000000	3.17819e-18	1.00000
rad21	2.01988e-18	1.000000	2.02019e-18	1.00000
rad5	8.38252e-20	1.000000	8.38381e-20	1.00000
rad18	1.43714e-20	1.000000	1.43736e-20	1.00000
PAH3+H	1.05456e-20	1.000000	1.05472e-20	1.00000
rad59	3.92886e-21	1.000000	3.92946e-21	1.00000
rad31	2.71348e-21	1.000000	2.71389e-21	1.00000
rad23	1.24334e-21	1.000000	1.24353e-21	1.00000
rad22	9.23299e-22	1.000000	9.23441e-22	1.00000
rad50	2.28898e-22	1.000000	2.28933e-22	1.00000
rad45	1.75292e-23	1.000000	1.75319e-23	1.00000
rad19syn	1.82537e-24	1.000000	1.82565e-24	1.00000
rad36	1.09552e-24	1.000000	1.09569e-24	1.00000
rad24	2.47522e-25	1.000000	2.47560e-25	1.00000
rad54	1.37160e-26	1.000000	1.37181e-26	1.00000
PAH10+CH3	9.40146e-27	1.000000	9.40291e-27	1.00000
rad52	4.44081e-27	1.000000	4.44149e-27	1.00000
rad43	2.30283e-27	1.000000	2.30318e-27	1.00000
rad62	2.68736e-28	1.000000	2.68777e-28	1.00000
rad51	1.45636e-29	1.000000	1.45659e-29	1.00000
rad65	1.67715e-32	1.000000	1.67740e-32	1.00000
rad70	1.91803e-38	1.000000	1.91832e-38	1.00000
PhcycC3H3_A+H	9.56230e-39	1.000000	9.56377e-39	1.00000

rad55	5.03071e-39	1.00000	5.03149e-39	1.00000
rad58	3.68356e-42	1.00000	3.68412e-42	1.00000
PAH1+H	2.10568e-43	1.00000	2.10601e-43	1.00000
rad34	2.01370e-45	1.00000	2.01401e-45	1.00000
rad42	6.99851e-48	1.00000	6.99959e-48	1.00000
rad41	4.82529e-48	1.00000	4.82603e-48	1.00000
rad47	4.79946e-57	1.00000	4.80020e-57	1.00000

0.100000000E-07 Pa, 210.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.30956e-27 (1.00)	8.30794e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999804	0.999804	1.00000	1.00000
Benzyl+C2H2	0.000195497	0.999999	0.00000	1.00000
rad6	3.01087e-08	1.000000	3.01146e-08	1.00000
PhCCH+CH3	3.08723e-09	1.000000	3.08783e-09	1.00000
PhCHCCH2+H	3.07891e-09	1.000000	3.07952e-09	1.00000
rad30	2.20830e-09	1.000000	2.20873e-09	1.00000
PhCCCH3+H	1.16229e-09	1.000000	1.16252e-09	1.00000
PAH9+H	3.39692e-10	1.000000	3.39759e-10	1.00000
rad35	2.84862e-10	1.000000	2.84918e-10	1.00000
rad15	1.39185e-10	1.000000	1.39212e-10	1.00000
rad38	5.12411e-11	1.000000	5.12511e-11	1.00000
rad28	4.77504e-11	1.000000	4.77597e-11	1.00000
rad2	3.58848e-11	1.000000	3.58918e-11	1.00000
rad26	5.24543e-12	1.000000	5.24646e-12	1.00000
rad8	4.76041e-12	1.000000	4.76134e-12	1.00000
Ph+MeAc	4.48105e-12	1.000000	4.48193e-12	1.00000
rad1	2.45922e-12	1.000000	2.45970e-12	1.00000
rad7	2.23711e-12	1.000000	2.23755e-12	1.00000
rad10	1.43814e-12	1.000000	1.43842e-12	1.00000
rad9	1.38782e-12	1.000000	1.38810e-12	1.00000
PAH7+H	7.72984e-13	1.000000	7.73135e-13	1.00000
rad11	5.52448e-13	1.000000	5.52556e-13	1.00000
rad3	2.98595e-13	1.000000	2.98654e-13	1.00000
rad4	1.54312e-13	1.000000	1.54342e-13	1.00000
Ph+Allene	1.06213e-13	1.000000	1.06234e-13	1.00000
rad12	8.37410e-14	1.000000	8.37574e-14	1.00000
rad39	6.99259e-14	1.000000	6.99395e-14	1.00000
rad46	2.89984e-14	1.000000	2.90041e-14	1.00000
rad13	1.26744e-14	1.000000	1.26769e-14	1.00000
rad60syn	3.56772e-16	1.000000	3.56842e-16	1.00000
PhCH2CCH+H	2.77797e-16	1.000000	2.77851e-16	1.00000
rad60anti	7.46103e-17	1.000000	7.46249e-17	1.00000
rad37	5.82816e-17	1.000000	5.82930e-17	1.00000
rad27	4.57965e-17	1.000000	4.58055e-17	1.00000
rad33	2.54931e-17	1.000000	2.54981e-17	1.00000
rad25	6.32110e-18	1.000000	6.32233e-18	1.00000
rad14	4.56747e-18	1.000000	4.56836e-18	1.00000
rad20	2.87647e-18	1.000000	2.87704e-18	1.00000
rad21	1.83222e-18	1.000000	1.83258e-18	1.00000
rad5	4.94773e-19	1.000000	4.94870e-19	1.00000
PAH3+H	6.92409e-20	1.000000	6.92544e-20	1.00000
rad59	2.51009e-20	1.000000	2.51058e-20	1.00000
rad18	1.28893e-20	1.000000	1.28918e-20	1.00000
rad31	2.56052e-21	1.000000	2.56102e-21	1.00000
rad23	1.61390e-21	1.000000	1.61421e-21	1.00000
rad50	1.46375e-21	1.000000	1.46404e-21	1.00000
rad22	8.20353e-22	1.000000	8.20514e-22	1.00000
rad45	3.34042e-23	1.000000	3.34107e-23	1.00000
rad19syn	2.00818e-23	1.000000	2.00857e-23	1.00000
rad36	2.09305e-24	1.000000	2.09346e-24	1.00000
rad24	2.50797e-25	1.000000	2.50846e-25	1.00000
rad54	1.94322e-25	1.000000	1.94360e-25	1.00000
PAH10+CH3	1.33349e-25	1.000000	1.33375e-25	1.00000
rad52	4.73526e-26	1.000000	4.73619e-26	1.00000
rad43	3.24699e-26	1.000000	3.24763e-26	1.00000
rad62	4.87675e-27	1.000000	4.87770e-27	1.00000
rad51	2.76098e-28	1.000000	2.76152e-28	1.00000
rad70	4.15017e-29	1.000000	4.15098e-29	1.00000
PhcycC3H3_A+H	3.67776e-29	1.000000	3.67848e-29	1.00000
rad55	1.45178e-29	1.000000	1.45206e-29	1.00000
rad58	1.88404e-30	1.000000	1.88441e-30	1.00000
rad65	8.86433e-31	1.000000	8.86607e-31	1.00000
PAH1+H	5.49758e-40	1.000000	5.49865e-40	1.00000
rad34	5.07923e-42	1.000000	5.08023e-42	1.00000

rad42	2.00301e-45	1.000000	2.00340e-45	1.00000
rad41	9.12517e-46	1.000000	9.12696e-46	1.00000
rad47	4.20713e-54	1.000000	4.20795e-54	1.00000

0.100000000E-07 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.40057e-26 (1.00)	3.39973e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999753	0.999753	1.00000	1.00000
Benzyl+C2H2	0.000247078	1.00000	0.00000	1.00000
rad6	2.41981e-08	1.00000	2.42041e-08	1.00000
PhCCH+CH3	6.43591e-09	1.00000	6.43750e-09	1.00000
PhCHCCH2+H	5.99173e-09	1.00000	5.99321e-09	1.00000
rad30	3.30405e-09	1.00000	3.30486e-09	1.00000
PhCCCH3+H	2.43330e-09	1.00000	2.43390e-09	1.00000
PAH9+H	4.73189e-10	1.00000	4.73306e-10	1.00000
rad35	3.78956e-10	1.00000	3.79049e-10	1.00000
rad15	2.37238e-10	1.00000	2.37297e-10	1.00000
rad38	7.63518e-11	1.00000	7.63707e-11	1.00000
rad28	5.11166e-11	1.00000	5.11292e-11	1.00000
rad2	1.84443e-11	1.00000	1.84489e-11	1.00000
Ph+MeAc	1.36499e-11	1.00000	1.36533e-11	1.00000
rad8	1.13039e-11	1.00000	1.13067e-11	1.00000
rad26	5.75664e-12	1.00000	5.75806e-12	1.00000
rad9	3.66995e-12	1.00000	3.67085e-12	1.00000
PAH7+H	2.08380e-12	1.00000	2.08432e-12	1.00000
rad7	1.80216e-12	1.00000	1.80261e-12	1.00000
rad1	1.27563e-12	1.00000	1.27595e-12	1.00000
rad10	1.05659e-12	1.00000	1.05685e-12	1.00000
rad11	4.45442e-13	1.00000	4.45553e-13	1.00000
Ph+Allene	3.75387e-13	1.00000	3.75479e-13	1.00000
rad12	2.28178e-13	1.00000	2.28234e-13	1.00000
rad39	2.08582e-13	1.00000	2.08633e-13	1.00000
rad3	1.29495e-13	1.00000	1.29527e-13	1.00000
rad4	6.70957e-14	1.00000	6.71123e-14	1.00000
rad46	6.24893e-14	1.00000	6.25047e-14	1.00000
rad13	1.02275e-14	1.00000	1.02300e-14	1.00000
PhCH2CCH+H	1.31497e-15	1.00000	1.31529e-15	1.00000
rad60syn	1.14776e-15	1.00000	1.14805e-15	1.00000
rad60anti	2.57261e-16	1.00000	2.57324e-16	1.00000
rad37	2.55043e-16	1.00000	2.55106e-16	1.00000
rad27	4.69024e-17	1.00000	4.69140e-17	1.00000
rad33	2.06966e-17	1.00000	2.07017e-17	1.00000
rad25	7.72553e-18	1.00000	7.72744e-18	1.00000
rad14	5.87129e-18	1.00000	5.87274e-18	1.00000
rad20	2.60888e-18	1.00000	2.60953e-18	1.00000
rad5	2.48676e-18	1.00000	2.48738e-18	1.00000
rad21	1.66550e-18	1.00000	1.66591e-18	1.00000
PAH3+H	3.84313e-19	1.00000	3.84408e-19	1.00000
rad59	1.35685e-19	1.00000	1.35719e-19	1.00000
rad18	1.15697e-20	1.00000	1.15726e-20	1.00000
rad50	7.96594e-21	1.00000	7.96790e-21	1.00000
rad31	2.41803e-21	1.00000	2.41863e-21	1.00000
rad23	2.18988e-21	1.00000	2.19042e-21	1.00000
rad22	7.29015e-22	1.00000	7.29195e-22	1.00000
rad19syn	1.76810e-22	1.00000	1.76853e-22	1.00000
rad45	4.01427e-23	1.00000	4.01527e-23	1.00000
rad36	2.52284e-24	1.00000	2.52347e-24	1.00000
rad54	2.07925e-24	1.00000	2.07977e-24	1.00000
PAH10+CH3	1.42538e-24	1.00000	1.42573e-24	1.00000
rad52	4.06722e-25	1.00000	4.06823e-25	1.00000
rad43	3.45425e-25	1.00000	3.45510e-25	1.00000
rad24	2.55641e-25	1.00000	2.55704e-25	1.00000
rad62	5.97333e-26	1.00000	5.97481e-26	1.00000
rad51	3.50353e-27	1.00000	3.50440e-27	1.00000
PhcycC3H3_A+H	9.87085e-28	1.00000	9.87329e-28	1.00000
rad70	8.97428e-28	1.00000	8.97650e-28	1.00000
rad55	3.38159e-28	1.00000	3.38243e-28	1.00000
rad58	5.59629e-29	1.00000	5.59768e-29	1.00000
rad65	1.55276e-29	1.00000	1.55314e-29	1.00000
PAH1+H	3.10930e-30	1.00000	3.11007e-30	1.00000
rad34	2.04140e-39	1.00000	2.04191e-39	1.00000
rad42	4.73510e-43	1.00000	4.73627e-43	1.00000
rad47	1.49504e-43	1.00000	1.49541e-43	1.00000
rad41	1.11523e-43	1.00000	1.11551e-43	1.00000

0.100000000E-07 Pa, 230.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22933e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999689	0.999689	1.00000	1.00000
Benzyl+C2H2	0.000310803	1.000000	0.00000	1.00000
rad6	1.94541e-08	1.000000	1.94601e-08	1.00000
PhCCH+CH3	1.27158e-08	1.000000	1.27198e-08	1.00000
PhCHCCH2+H	1.11262e-08	1.000000	1.11297e-08	1.00000
rad30	4.83587e-09	1.000000	4.83738e-09	1.00000
PhCCCH3+H	4.81561e-09	1.000000	4.81710e-09	1.00000
PAH9+H	6.55031e-10	1.000000	6.55235e-10	1.00000
rad35	5.02430e-10	1.000000	5.02586e-10	1.00000
rad15	3.90193e-10	1.000000	3.90314e-10	1.00000
rad38	1.12258e-10	1.000000	1.12293e-10	1.00000
rad28	5.32882e-11	1.000000	5.33047e-11	1.00000
Ph+MeAc	3.79030e-11	1.000000	3.79148e-11	1.00000
rad8	2.50406e-11	1.000000	2.50484e-11	1.00000
rad2	1.70464e-11	1.000000	1.70517e-11	1.00000
rad9	8.96803e-12	1.000000	8.97082e-12	1.00000
rad26	6.13935e-12	1.000000	6.14126e-12	1.00000
PAH7+H	5.18190e-12	1.000000	5.18351e-12	1.00000
rad7	1.45235e-12	1.000000	1.45280e-12	1.00000
Ph+Allene	1.19626e-12	1.000000	1.19664e-12	1.00000
rad1	1.19057e-12	1.000000	1.19094e-12	1.00000
rad10	9.43803e-13	1.000000	9.44096e-13	1.00000
rad12	5.71099e-13	1.000000	5.71277e-13	1.00000
rad39	5.68635e-13	1.000000	5.68811e-13	1.00000
rad11	3.59323e-13	1.000000	3.59435e-13	1.00000
rad46	1.27781e-13	1.000000	1.27821e-13	1.00000
rad3	1.12661e-13	1.000000	1.12696e-13	1.00000
rad4	5.85380e-14	1.000000	5.85562e-14	1.00000
rad13	8.25700e-15	1.000000	8.25956e-15	1.00000
PhCH2CCH+H	5.46598e-15	1.000000	5.46768e-15	1.00000
rad60syn	3.34628e-15	1.000000	3.34732e-15	1.00000
rad37	9.74547e-16	1.000000	9.74850e-16	1.00000
rad60anti	7.98156e-16	1.000000	7.98404e-16	1.00000
rad27	4.70068e-17	1.000000	4.70214e-17	1.00000
rad33	1.68188e-17	1.000000	1.68240e-17	1.00000
rad5	1.08663e-17	1.000000	1.08697e-17	1.00000
rad25	9.09459e-18	1.000000	9.09742e-18	1.00000
rad14	7.23659e-18	1.000000	7.23884e-18	1.00000
rad20	2.37073e-18	1.000000	2.37147e-18	1.00000
PAH3+H	1.84376e-18	1.000000	1.84433e-18	1.00000
rad21	1.51711e-18	1.000000	1.51758e-18	1.00000
rad59	6.34526e-19	1.000000	6.34724e-19	1.00000
rad50	3.76905e-20	1.000000	3.77022e-20	1.00000
rad18	1.03930e-20	1.000000	1.03962e-20	1.00000
rad23	3.10815e-21	1.000000	3.10912e-21	1.00000
rad31	2.31178e-21	1.000000	2.31249e-21	1.00000
rad19syn	1.28690e-21	1.000000	1.28730e-21	1.00000
rad22	6.47882e-22	1.000000	6.48083e-22	1.00000
rad45	5.65710e-23	1.000000	5.65886e-23	1.00000
rad54	1.79674e-23	1.000000	1.79730e-23	1.00000
PAH10+CH3	1.22748e-23	1.000000	1.22786e-23	1.00000
rad36	3.56769e-24	1.000000	3.56880e-24	1.00000
rad43	2.95796e-24	1.000000	2.95888e-24	1.00000
rad52	2.90478e-24	1.000000	2.90569e-24	1.00000
rad62	5.74611e-25	1.000000	5.74789e-25	1.00000
rad24	2.62177e-25	1.000000	2.62258e-25	1.00000
rad51	3.51924e-26	1.000000	3.52033e-26	1.00000
PhcycC3H3_A+H	1.69392e-26	1.000000	1.69445e-26	1.00000
rad70	1.30480e-26	1.000000	1.30521e-26	1.00000
rad55	5.18385e-27	1.000000	5.18546e-27	1.00000
rad58	1.02415e-27	1.000000	1.02446e-27	1.00000
PAH1+H	2.23671e-28	1.000000	2.23740e-28	1.00000
rad65	2.00231e-28	1.000000	2.00293e-28	1.00000
rad34	1.06744e-29	1.000000	1.06777e-29	1.00000
rad42	4.44131e-32	1.000000	4.44269e-32	1.00000
rad41	7.74433e-33	1.000000	7.74674e-33	1.00000
rad47	2.02044e-42	1.000000	2.02107e-42	1.00000

0.100000000E-07 Pa, 240.000000 K

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Rate constant	True (fraction)	Effective (fraction)
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Total | 3.99091e-25 (1.00) 3.98936e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999611	0.999611	1.00000	1.00000
Benzyl+C2H2	0.000389084	1.00000	0.00000	1.00000
PhCCH+CH3	2.39606e-08	1.00000	2.39699e-08	1.00000
PhCHCCH2+H	1.98215e-08	1.00000	1.98293e-08	1.00000
rad6	1.56418e-08	1.00000	1.56479e-08	1.00000
PhCCCH3+H	9.06939e-09	1.00000	9.07292e-09	1.00000
rad30	6.94255e-09	1.00000	6.94525e-09	1.00000
PAH9+H	9.01165e-10	1.00000	9.01516e-10	1.00000
rad35	6.63661e-10	1.00000	6.63919e-10	1.00000
rad15	6.22131e-10	1.00000	6.22373e-10	1.00000
rad38	1.63045e-10	1.00000	1.63109e-10	1.00000
Ph+MeAc	9.70294e-11	1.00000	9.70671e-11	1.00000
rad28	5.42700e-11	1.00000	5.42911e-11	1.00000
rad8	5.22015e-11	1.00000	5.22218e-11	1.00000
rad2	2.31349e-11	1.00000	2.31439e-11	1.00000
rad9	2.04532e-11	1.00000	2.04612e-11	1.00000
PAH7+H	1.20110e-11	1.00000	1.20157e-11	1.00000
rad26	6.38457e-12	1.00000	6.38706e-12	1.00000
Ph+Allene	3.48221e-12	1.00000	3.48357e-12	1.00000
rad1	1.63335e-12	1.00000	1.63399e-12	1.00000
rad39	1.43288e-12	1.00000	1.43344e-12	1.00000
rad12	1.32699e-12	1.00000	1.32751e-12	1.00000
rad7	1.17066e-12	1.00000	1.17112e-12	1.00000
rad10	8.38463e-13	1.00000	8.38790e-13	1.00000
rad11	2.89921e-13	1.00000	2.90034e-13	1.00000
rad46	2.49645e-13	1.00000	2.49742e-13	1.00000
rad3	1.86352e-13	1.00000	1.86425e-13	1.00000
rad4	9.71248e-14	1.00000	9.71626e-14	1.00000
PhCH2CCH+H	2.02784e-14	1.00000	2.02863e-14	1.00000
rad60syn	8.95436e-15	1.00000	8.95784e-15	1.00000
rad13	6.66797e-15	1.00000	6.67056e-15	1.00000
rad37	3.30811e-15	1.00000	3.30939e-15	1.00000
rad60anti	2.25867e-15	1.00000	2.25955e-15	1.00000
rad27	4.62228e-17	1.00000	4.62408e-17	1.00000
rad5	4.20021e-17	1.00000	4.20184e-17	1.00000
rad33	1.36786e-17	1.00000	1.36839e-17	1.00000
rad25	1.03596e-17	1.00000	1.03636e-17	1.00000
rad14	8.59620e-18	1.00000	8.59955e-18	1.00000
PAH3+H	7.78863e-18	1.00000	7.79166e-18	1.00000
rad59	2.61499e-18	1.00000	2.61601e-18	1.00000
rad20	2.15849e-18	1.00000	2.15933e-18	1.00000
rad21	1.38485e-18	1.00000	1.38539e-18	1.00000
rad50	1.57823e-19	1.00000	1.57885e-19	1.00000
rad18	9.34240e-21	1.00000	9.34604e-21	1.00000
rad19syn	7.93175e-21	1.00000	7.93484e-21	1.00000
rad23	4.58922e-21	1.00000	4.59101e-21	1.00000
rad31	2.22581e-21	1.00000	2.22667e-21	1.00000
rad22	5.75765e-22	1.00000	5.75989e-22	1.00000
rad54	1.28744e-22	1.00000	1.28794e-22	1.00000
PAH10+CH3	8.76232e-23	1.00000	8.76573e-23	1.00000
rad45	8.19327e-23	1.00000	8.19646e-23	1.00000
rad43	2.10010e-23	1.00000	2.10091e-23	1.00000
rad52	1.76521e-23	1.00000	1.76590e-23	1.00000
rad36	5.18731e-24	1.00000	5.18932e-24	1.00000
rad62	4.48334e-24	1.00000	4.48509e-24	1.00000
rad51	2.84575e-25	1.00000	2.84686e-25	1.00000
rad24	2.70578e-25	1.00000	2.70683e-25	1.00000
PhcycC3H3_A+H	1.83497e-25	1.00000	1.83568e-25	1.00000
rad70	1.30436e-25	1.00000	1.30487e-25	1.00000
rad55	5.31871e-26	1.00000	5.32078e-26	1.00000
rad58	1.13976e-26	1.00000	1.14020e-26	1.00000
PAH1+H	3.49023e-27	1.00000	3.49159e-27	1.00000
rad65	1.89688e-27	1.00000	1.89762e-27	1.00000
rad34	2.02063e-28	1.00000	2.02142e-28	1.00000
rad42	2.62674e-30	1.00000	2.62776e-30	1.00000
rad41	7.56115e-31	1.00000	7.56410e-31	1.00000
rad47	1.87587e-41	1.00000	1.87660e-41	1.00000

0.100000000E-07 Pa, 250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17763e-24 (1.00)	1.17706e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.999515	0.999515	1.00000	1.00000
Benzyl+C2H2	0.000484700	1.000000	0.00000	1.00000
PhCCH+CH3	4.32848e-08	1.000000	4.33058e-08	1.00000
PhCHCCH2+H	3.40315e-08	1.000000	3.40480e-08	1.00000
PhCCCH3+H	1.63452e-08	1.000000	1.63532e-08	1.00000
rad6	1.25760e-08	1.000000	1.25821e-08	1.00000
rad30	9.79760e-09	1.000000	9.80235e-09	1.00000
PAH9+H	1.23218e-09	1.000000	1.23278e-09	1.00000
rad15	9.65237e-10	1.000000	9.65705e-10	1.00000
rad35	8.73119e-10	1.000000	8.73542e-10	1.00000
rad38	2.34143e-10	1.000000	2.34256e-10	1.00000
Ph+MeAc	2.31164e-10	1.000000	2.31276e-10	1.00000
rad8	1.03157e-10	1.000000	1.03207e-10	1.00000
rad28	5.41388e-11	1.000000	5.41650e-11	1.00000
rad9	4.38995e-11	1.000000	4.39208e-11	1.00000
PAH7+H	2.61749e-11	1.000000	2.61876e-11	1.00000
rad2	2.13925e-11	1.000000	2.14029e-11	1.00000
Ph+Allene	9.36018e-12	1.000000	9.36472e-12	1.00000
rad26	6.49313e-12	1.000000	6.49628e-12	1.00000
rad39	3.36907e-12	1.000000	3.37071e-12	1.00000
rad12	2.88802e-12	1.000000	2.88942e-12	1.00000
rad1	1.52770e-12	1.000000	1.52844e-12	1.00000
rad7	9.43627e-13	1.000000	9.44085e-13	1.00000
rad10	7.84838e-13	1.000000	7.85219e-13	1.00000
rad46	4.68609e-13	1.000000	4.68837e-13	1.00000
rad11	2.33943e-13	1.000000	2.34057e-13	1.00000
rad3	1.65714e-13	1.000000	1.65794e-13	1.00000
rad4	8.66526e-14	1.000000	8.66946e-14	1.00000
PhCH2CCH+H	6.80661e-14	1.000000	6.80991e-14	1.00000
rad60syn	2.22273e-14	1.000000	2.22381e-14	1.00000
rad37	1.01211e-14	1.000000	1.01260e-14	1.00000
rad60anti	5.89685e-15	1.000000	5.89971e-15	1.00000
rad13	5.38540e-15	1.000000	5.38801e-15	1.00000
rad5	1.45718e-16	1.000000	1.45789e-16	1.00000
rad27	4.46926e-17	1.000000	4.47143e-17	1.00000
PAH3+H	2.94243e-17	1.000000	2.94386e-17	1.00000
rad25	1.14625e-17	1.000000	1.14681e-17	1.00000
rad33	1.11326e-17	1.000000	1.11380e-17	1.00000
rad14	9.88393e-18	1.000000	9.88873e-18	1.00000
rad59	9.64551e-18	1.000000	9.65019e-18	1.00000
rad20	1.96917e-18	1.000000	1.97013e-18	1.00000
rad21	1.26689e-18	1.000000	1.26750e-18	1.00000
rad50	5.93639e-19	1.000000	5.93927e-19	1.00000
rad19syn	4.22763e-20	1.000000	4.22968e-20	1.00000
rad18	8.40380e-21	1.000000	8.40787e-21	1.00000
rad23	7.05681e-21	1.000000	7.06023e-21	1.00000
rad31	2.16295e-21	1.000000	2.16400e-21	1.00000
rad54	7.86767e-22	1.000000	7.87149e-22	1.00000
PAH10+CH3	5.33110e-22	1.000000	5.33369e-22	1.00000
rad22	5.11642e-22	1.000000	5.11891e-22	1.00000
rad45	2.07084e-22	1.000000	2.07184e-22	1.00000
rad43	1.27026e-22	1.000000	1.27087e-22	1.00000
rad52	9.31755e-23	1.000000	9.32207e-23	1.00000
rad62	2.94966e-23	1.000000	2.95109e-23	1.00000
rad36	1.31694e-23	1.000000	1.31757e-23	1.00000
rad51	1.93290e-24	1.000000	1.93384e-24	1.00000
PhcycC3H3_A+H	1.51485e-24	1.000000	1.51559e-24	1.00000
rad70	1.03242e-24	1.000000	1.03293e-24	1.00000
rad55	4.27163e-25	1.000000	4.27370e-25	1.00000
rad24	2.81075e-25	1.000000	2.81211e-25	1.00000
rad58	9.52951e-26	1.000000	9.53413e-26	1.00000
PAH1+H	3.26070e-26	1.000000	3.26228e-26	1.00000
rad65	1.44854e-26	1.000000	1.44924e-26	1.00000
rad34	1.95407e-27	1.000000	1.95502e-27	1.00000
rad42	2.76646e-29	1.000000	2.76780e-29	1.00000
rad41	8.02597e-30	1.000000	8.02987e-30	1.00000
rad47	1.43631e-40	1.000000	1.43700e-40	1.00000

0.100000000E-07 Pa, 260.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19260e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999399	0.999399	1.00000	1.00000
Benzyl+C2H2	0.000600830	1.000000	0.00000	1.00000
PhCCH+CH3	7.52940e-08	1.000000	7.53393e-08	1.00000
PhCHCCH2+H	5.65217e-08	1.000000	5.65557e-08	1.00000

PhCCCH3+H	2.83214e-08	1.000000	2.83384e-08	1.00000
rad30	1.36157e-08	1.00000	1.36239e-08	1.00000
rad6	1.01092e-08	1.00000	1.01153e-08	1.00000
PAH9+H	1.67445e-09	1.00000	1.67545e-09	1.00000
rad15	1.46180e-09	1.00000	1.46268e-09	1.00000
rad35	1.14380e-09	1.00000	1.14449e-09	1.00000
Ph+MeAc	5.16641e-10	1.00000	5.16952e-10	1.00000
rad38	3.32694e-10	1.00000	3.32894e-10	1.00000
rad8	1.94417e-10	1.00000	1.94534e-10	1.00000
rad9	8.92961e-11	1.00000	8.93498e-11	1.00000
PAH7+H	5.40209e-11	1.00000	5.40534e-11	1.00000
rad28	5.30227e-11	1.00000	5.30546e-11	1.00000
Ph+Allene	2.34476e-11	1.00000	2.34617e-11	1.00000
rad2	1.08613e-11	1.00000	1.08678e-11	1.00000
rad39	7.45073e-12	1.00000	7.45521e-12	1.00000
rad26	6.47376e-12	1.00000	6.47765e-12	1.00000
rad12	5.93126e-12	1.00000	5.93483e-12	1.00000
rad46	8.49081e-13	1.00000	8.49591e-13	1.00000
rad1	7.85338e-13	1.00000	7.85810e-13	1.00000
rad7	7.60549e-13	1.00000	7.61007e-13	1.00000
rad10	5.93558e-13	1.00000	5.93915e-13	1.00000
PhCH2CCH+H	2.09101e-13	1.00000	2.09227e-13	1.00000
rad11	1.88766e-13	1.00000	1.88879e-13	1.00000
rad3	8.51900e-14	1.00000	8.52412e-14	1.00000
rad60syn	5.16426e-14	1.00000	5.16737e-14	1.00000
rad4	4.47065e-14	1.00000	4.47334e-14	1.00000
rad37	2.82533e-14	1.00000	2.82703e-14	1.00000
rad60anti	1.43406e-14	1.00000	1.43492e-14	1.00000
rad13	4.34955e-15	1.00000	4.35216e-15	1.00000
rad5	4.59359e-16	1.00000	4.59635e-16	1.00000
PAH3+H	1.00724e-16	1.00000	1.00784e-16	1.00000
rad27	4.25706e-17	1.00000	4.25962e-17	1.00000
rad59	3.22623e-17	1.00000	3.22817e-17	1.00000
rad25	1.23599e-17	1.00000	1.23673e-17	1.00000
rad14	1.10407e-17	1.00000	1.10474e-17	1.00000
rad33	9.06648e-18	1.00000	9.07193e-18	1.00000
rad50	2.03113e-18	1.00000	2.03235e-18	1.00000
rad20	1.80019e-18	1.00000	1.80128e-18	1.00000
rad21	1.16162e-18	1.00000	1.16232e-18	1.00000
rad19syn	1.98205e-19	1.00000	1.98324e-19	1.00000
rad23	1.11963e-20	1.00000	1.12030e-20	1.00000
rad18	7.56484e-21	1.00000	7.56939e-21	1.00000
rad54	4.18282e-21	1.00000	4.18533e-21	1.00000
PAH10+CH3	2.81840e-21	1.00000	2.82009e-21	1.00000
rad31	2.11274e-21	1.00000	2.11401e-21	1.00000
rad43	6.67188e-22	1.00000	6.67589e-22	1.00000
rad22	4.54627e-22	1.00000	4.54900e-22	1.00000
rad52	4.34411e-22	1.00000	4.34673e-22	1.00000
rad45	4.04277e-22	1.00000	4.04520e-22	1.00000
rad62	1.67395e-22	1.00000	1.67496e-22	1.00000
rad36	2.58386e-23	1.00000	2.58541e-23	1.00000
rad51	1.13377e-23	1.00000	1.13445e-23	1.00000
PhcycC3H3_A+H	1.04989e-23	1.00000	1.05052e-23	1.00000
rad70	6.90237e-24	1.00000	6.90652e-24	1.00000
rad55	2.89213e-24	1.00000	2.89387e-24	1.00000
rad58	6.67420e-25	1.00000	6.67822e-25	1.00000
rad24	2.93967e-25	1.00000	2.94143e-25	1.00000
PAH1+H	2.48959e-25	1.00000	2.49109e-25	1.00000
rad65	9.40613e-26	1.00000	9.41178e-26	1.00000
rad34	1.53045e-26	1.00000	1.53137e-26	1.00000
rad42	2.29633e-28	1.00000	2.29771e-28	1.00000
rad41	6.71432e-29	1.00000	6.71835e-29	1.00000
rad47	9.26851e-40	1.00000	9.27408e-40	1.00000

0.100000000E-07 Pa, 270.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.03545e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999259	0.999259	1.00000	1.00000
Benzyl+C2H2	0.000741077	1.00000	0.00000	1.00000
PhCCH+CH3	1.26585e-07	1.00000	1.26679e-07	1.00000
PhCHCCH2+H	9.11006e-08	1.00000	9.11682e-08	1.00000
PhCCCH3+H	4.73654e-08	1.00000	4.74005e-08	1.00000
rad30	1.86595e-08	1.00000	1.86734e-08	1.00000
rad6	8.12419e-09	1.00000	8.13022e-09	1.00000
PAH9+H	2.26149e-09	1.00000	2.26317e-09	1.00000

rad15	2.16654e-09	1.00000	2.16815e-09	1.00000
rad35	1.49172e-09	1.00000	1.49282e-09	1.00000
Ph+MeAc	1.09059e-09	1.00000	1.09140e-09	1.00000
rad38	4.68008e-10	1.00000	4.68355e-10	1.00000
rad8	3.51264e-10	1.00000	3.51524e-10	1.00000
rad9	1.73163e-10	1.00000	1.73291e-10	1.00000
PAH7+H	1.06236e-10	1.00000	1.06315e-10	1.00000
Ph+Allene	5.51675e-11	1.00000	5.52084e-11	1.00000
rad28	5.10816e-11	1.00000	5.11194e-11	1.00000
rad39	1.56033e-11	1.00000	1.56148e-11	1.00000
rad12	1.15678e-11	1.00000	1.15764e-11	1.00000
rad2	1.12842e-11	1.00000	1.12926e-11	1.00000
rad26	6.34096e-12	1.00000	6.34566e-12	1.00000
rad46	1.49078e-12	1.00000	1.49189e-12	1.00000
rad1	8.26796e-13	1.00000	8.27409e-13	1.00000
rad7	6.12883e-13	1.00000	6.13337e-13	1.00000
PhCH2CCH+H	5.93698e-13	1.00000	5.94138e-13	1.00000
rad10	5.73880e-13	1.00000	5.74306e-13	1.00000
rad11	1.52296e-13	1.00000	1.52409e-13	1.00000
rad60syn	1.13161e-13	1.00000	1.13245e-13	1.00000
rad37	7.27158e-14	1.00000	7.27697e-14	1.00000
rad3	4.99308e-14	1.00000	4.99678e-14	1.00000
rad60anti	3.27522e-14	1.00000	3.27765e-14	1.00000
rad4	2.63047e-14	1.00000	2.63242e-14	1.00000
rad13	3.51269e-15	1.00000	3.51530e-15	1.00000
rad5	1.32965e-15	1.00000	1.33064e-15	1.00000
PAH3+H	3.15912e-16	1.00000	3.16146e-16	1.00000
rad59	9.89462e-17	1.00000	9.90196e-17	1.00000
rad27	4.00111e-17	1.00000	4.00408e-17	1.00000
rad25	1.30247e-17	1.00000	1.30343e-17	1.00000
rad14	1.20192e-17	1.00000	1.20281e-17	1.00000
rad33	7.38862e-18	1.00000	7.39410e-18	1.00000
rad50	6.38912e-18	1.00000	6.39386e-18	1.00000
rad20	1.64934e-18	1.00000	1.65056e-18	1.00000
rad21	1.06767e-18	1.00000	1.06846e-18	1.00000
rad19syn	8.29179e-19	1.00000	8.29794e-19	1.00000
rad54	1.96548e-20	1.00000	1.96693e-20	1.00000
rad23	1.83200e-20	1.00000	1.83335e-20	1.00000
PAH10+CH3	1.31523e-20	1.00000	1.31621e-20	1.00000
rad18	6.81478e-21	1.00000	6.81983e-21	1.00000
rad43	3.09130e-21	1.00000	3.09359e-21	1.00000
rad31	2.08808e-21	1.00000	2.08963e-21	1.00000
rad52	1.81421e-21	1.00000	1.81555e-21	1.00000
rad62	8.33487e-22	1.00000	8.34105e-22	1.00000
rad45	6.99388e-22	1.00000	6.99907e-22	1.00000
rad22	4.03940e-22	1.00000	4.04239e-22	1.00000
PhcycC3H3_A+H	6.28440e-23	1.00000	6.28906e-23	1.00000
rad51	5.84528e-23	1.00000	5.84962e-23	1.00000
rad36	4.49648e-23	1.00000	4.49982e-23	1.00000
rad70	3.99452e-23	1.00000	3.99748e-23	1.00000
rad55	1.69373e-23	1.00000	1.69499e-23	1.00000
rad58	4.03354e-24	1.00000	4.03653e-24	1.00000
PAH1+H	1.62733e-24	1.00000	1.62853e-24	1.00000
rad65	5.31208e-25	1.00000	5.31602e-25	1.00000
rad24	3.09634e-25	1.00000	3.09863e-25	1.00000
rad34	1.02480e-25	1.00000	1.02556e-25	1.00000
rad42	1.63125e-27	1.00000	1.63246e-27	1.00000
rad41	4.81362e-28	1.00000	4.81719e-28	1.00000
rad47	5.14497e-39	1.00000	5.14878e-39	1.00000

0.100000000E-07 Pa, 280.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89185e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999090	0.999090	1.00000	1.00000
Benzyl+C2H2	0.000909507	1.000000	0.00000	1.00000
PhCCH+CH3	2.06334e-07	1.000000	2.06521e-07	1.00000
PhCHCCH2+H	1.42880e-07	1.000000	1.43011e-07	1.00000
PhCCCH3+H	7.67163e-08	1.000000	7.67862e-08	1.00000
rad30	2.52475e-08	1.000000	2.52705e-08	1.00000
rad6	6.52680e-09	1.000000	6.53275e-09	1.00000
rad15	3.14926e-09	1.000000	3.15213e-09	1.00000
PAH9+H	3.03559e-09	1.000000	3.03835e-09	1.00000
Ph+MeAc	2.18704e-09	1.000000	2.18903e-09	1.00000
rad35	1.93648e-09	1.000000	1.93824e-09	1.00000
rad38	6.52109e-10	1.000000	6.52703e-10	1.00000

rad8	6.11074e-10	1.000000	6.11630e-10	1.00000
rad9	3.21752e-10	1.000000	3.22045e-10	1.00000
PAH7+H	2.00113e-10	1.000000	2.00295e-10	1.00000
Ph+Allene	1.22724e-10	1.000000	1.22836e-10	1.00000
rad28	4.84891e-11	1.000000	4.85332e-11	1.00000
rad39	3.11223e-11	1.000000	3.11507e-11	1.00000
rad12	2.15404e-11	1.000000	2.15600e-11	1.00000
rad2	8.19470e-12	1.000000	8.20216e-12	1.00000
rad26	6.11273e-12	1.000000	6.11829e-12	1.00000
rad46	2.54457e-12	1.000000	2.54689e-12	1.00000
PhCH2CCH+H	1.57107e-12	1.000000	1.57250e-12	1.00000
rad1	6.09168e-13	1.000000	6.09723e-13	1.00000
rad7	4.93768e-13	1.000000	4.94217e-13	1.00000
rad10	4.39963e-13	1.000000	4.40364e-13	1.00000
rad60syn	2.35373e-13	1.000000	2.35588e-13	1.00000
rad37	1.74095e-13	1.000000	1.74254e-13	1.00000
rad11	1.22850e-13	1.000000	1.22962e-13	1.00000
rad60anti	7.07396e-14	1.000000	7.08040e-14	1.00000
rad3	5.41148e-14	1.000000	5.41641e-14	1.00000
rad4	2.86300e-14	1.000000	2.86560e-14	1.00000
rad5	3.56589e-15	1.000000	3.56914e-15	1.00000
rad13	2.83649e-15	1.000000	2.83908e-15	1.00000
PAH3+H	9.16507e-16	1.000000	9.17341e-16	1.00000
rad59	2.80900e-16	1.000000	2.81156e-16	1.00000
rad27	3.71577e-17	1.000000	3.71915e-17	1.00000
rad50	1.86453e-17	1.000000	1.86623e-17	1.00000
rad25	1.34457e-17	1.000000	1.34579e-17	1.00000
rad14	1.27860e-17	1.000000	1.27976e-17	1.00000
rad33	6.02534e-18	1.000000	6.03082e-18	1.00000
rad19syn	3.13292e-18	1.000000	3.13577e-18	1.00000
rad20	1.51466e-18	1.000000	1.51604e-18	1.00000
rad21	9.83837e-19	1.000000	9.84733e-19	1.00000
rad54	8.26763e-20	1.000000	8.27515e-20	1.00000
PAH10+CH3	5.48810e-20	1.000000	5.49309e-20	1.00000
rad23	3.09193e-20	1.000000	3.09474e-20	1.00000
rad43	1.28005e-20	1.000000	1.28122e-20	1.00000
rad52	6.86644e-21	1.000000	6.87269e-21	1.00000
rad18	6.14414e-21	1.000000	6.14974e-21	1.00000
rad62	3.68998e-21	1.000000	3.69334e-21	1.00000
rad31	2.07620e-21	1.000000	2.07809e-21	1.00000
rad45	8.96906e-22	1.000000	8.97723e-22	1.00000
rad22	3.58894e-22	1.000000	3.59221e-22	1.00000
PhcycC3H3_A+H	3.28881e-22	1.000000	3.29180e-22	1.00000
rad51	2.68189e-22	1.000000	2.68433e-22	1.00000
rad70	2.02731e-22	1.000000	2.02915e-22	1.00000
rad55	8.69007e-23	1.000000	8.69799e-23	1.00000
rad36	5.80251e-23	1.000000	5.80779e-23	1.00000
rad58	2.12890e-23	1.000000	2.13084e-23	1.00000
PAH1+H	9.19440e-24	1.000000	9.20277e-24	1.00000
rad65	2.64204e-24	1.000000	2.64445e-24	1.00000
rad34	5.91306e-25	1.000000	5.91844e-25	1.00000
rad24	3.28558e-25	1.000000	3.28857e-25	1.00000
rad42	9.90724e-27	1.000000	9.91626e-27	1.00000
rad41	2.94681e-27	1.000000	2.94949e-27	1.00000
rad47	2.49702e-38	1.000000	2.49929e-38	1.00000

0.100000000E-07 Pa, 290.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.20015e-23 (1.00)	4.19549e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998889	0.998889	0.999999	0.999999
Benzyl+C2H2	0.00111067	1.000000	0.000000	0.999999
PhCCH+CH3	3.26966e-07	1.000000	3.27330e-07	0.999999
PhCHCCH2+H	2.18562e-07	1.000000	2.18805e-07	1.000000
PhCCCH3+H	1.20682e-07	1.000000	1.20816e-07	1.000000
rad30	3.37617e-08	1.000000	3.37992e-08	1.000000
rad6	5.24160e-09	1.000000	5.24743e-09	1.000000
rad15	4.49781e-09	1.000000	4.50281e-09	1.000000
Ph+MeAc	4.18748e-09	1.000000	4.19213e-09	1.000000
PAH9+H	4.04965e-09	1.000000	4.05415e-09	1.000000
rad35	2.50193e-09	1.000000	2.50472e-09	1.000000
rad8	1.02741e-09	1.000000	1.02855e-09	1.000000
rad38	9.00379e-10	1.000000	9.01380e-10	1.000000
rad9	5.75329e-10	1.000000	5.75969e-10	1.000000
PAH7+H	3.62664e-10	1.000000	3.63067e-10	1.000000
Ph+Allene	2.59613e-10	1.000000	2.59902e-10	1.000000

rad39	5.94191e-11	1.00000	5.94852e-11	1.000000
rad28	4.54187e-11	1.00000	4.54692e-11	1.000000
rad12	3.84725e-11	1.00000	3.85153e-11	1.000000
rad26	5.80877e-12	1.00000	5.81523e-12	1.000000
rad2	4.25230e-12	1.00000	4.25703e-12	1.000000
rad46	4.23385e-12	1.00000	4.23856e-12	1.000000
PhCH2CCH+H	3.90284e-12	1.00000	3.90718e-12	1.000000
rad60syn	4.67307e-13	1.00000	4.67826e-13	1.000000
rad7	3.97696e-13	1.00000	3.98138e-13	1.000000
rad37	3.90735e-13	1.00000	3.91170e-13	1.000000
rad10	3.41829e-13	1.00000	3.42209e-13	1.000000
rad1	3.20987e-13	1.00000	3.21344e-13	1.000000
rad60anti	1.45354e-13	1.00000	1.45516e-13	1.000000
rad11	9.90784e-14	1.00000	9.91885e-14	1.000000
rad3	5.26932e-14	1.00000	5.27518e-14	1.000000
rad4	2.80035e-14	1.00000	2.80347e-14	1.000000
rad5	8.92904e-15	1.00000	8.93897e-15	1.000000
PAH3+H	2.47956e-15	1.00000	2.48232e-15	1.000000
rad13	2.29012e-15	1.00000	2.29267e-15	1.000000
rad59	7.44181e-16	1.00000	7.45009e-16	1.000000
rad50	5.08734e-17	1.00000	5.09300e-17	1.000000
rad27	3.41387e-17	1.00000	3.41766e-17	1.000000
rad25	1.36262e-17	1.00000	1.36414e-17	1.000000
rad14	1.33229e-17	1.00000	1.33377e-17	1.000000
rad19syn	1.08024e-17	1.00000	1.08144e-17	1.000000
rad33	4.91724e-18	1.00000	4.92270e-18	1.000000
rad20	1.39447e-18	1.00000	1.39602e-18	1.000000
rad21	9.09084e-19	1.00000	9.10095e-19	1.000000
rad54	3.14766e-19	1.00000	3.15116e-19	1.000000
PAH10+CH3	2.07062e-19	1.00000	2.07292e-19	1.000000
rad23	5.34811e-20	1.00000	5.35406e-20	1.000000
rad43	4.79070e-20	1.00000	4.79603e-20	1.000000
rad52	2.37882e-20	1.00000	2.38146e-20	1.000000
rad62	1.46949e-20	1.00000	1.47112e-20	1.000000
rad18	5.54456e-21	1.00000	5.55072e-21	1.000000
rad31	2.08369e-21	1.00000	2.08600e-21	1.000000
rad45	2.03030e-21	1.00000	2.03256e-21	1.000000
PhcycC3H3_A+H	1.52452e-21	1.00000	1.52622e-21	1.000000
rad51	1.10724e-21	1.00000	1.10847e-21	1.000000
rad70	9.13951e-22	1.00000	9.14968e-22	1.000000
rad55	3.95677e-22	1.00000	3.96117e-22	1.000000
rad22	3.18881e-22	1.00000	3.19236e-22	1.000000
rad36	1.32238e-22	1.00000	1.32385e-22	1.000000
rad58	9.94323e-23	1.00000	9.95428e-23	1.000000
PAH1+H	4.55733e-23	1.00000	4.56240e-23	1.000000
rad65	1.17141e-23	1.00000	1.17271e-23	1.000000
rad34	2.98552e-24	1.00000	2.98884e-24	1.000000
rad24	3.51346e-25	1.00000	3.51736e-25	1.000000
rad42	5.23352e-26	1.00000	5.23933e-26	1.000000
rad41	1.56770e-26	1.00000	1.56944e-26	1.000000
rad47	1.07468e-37	1.00000	1.07587e-37	1.000000

0.100000000E-07 Pa, 300.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.17740e-22 (1.00)	1.17544e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998337	0.998337	0.999999	0.999999
Benzyl+C2H2	0.00166158	0.999999	0.00000	0.999999
PhCCH+CH3	4.36741e-07	0.999999	4.37468e-07	0.999999
PhCHCCH2+H	2.66157e-07	0.999999	2.66600e-07	1.000000
PhCCCH3+H	1.55715e-07	0.999999	1.55974e-07	1.000000
rad30	3.74940e-08	0.999999	3.75564e-08	1.000000
rad6	1.39457e-08	0.999999	1.39689e-08	1.000000
Ph+MeAc	6.10066e-09	0.999999	6.11081e-09	1.000000
PAH9+H	5.54882e-09	1.000000	5.55806e-09	1.000000
rad35	2.76931e-09	1.000000	2.77392e-09	1.000000
rad38	1.02444e-09	1.000000	1.02615e-09	1.000000
PAH7+H	6.45710e-10	1.000000	6.46784e-10	1.000000
Ph+Allene	2.52011e-10	1.000000	2.52430e-10	1.000000
rad39	8.64609e-11	1.000000	8.66048e-11	1.000000
rad28	4.39880e-11	1.000000	4.40612e-11	1.000000
rad19anti	1.63372e-11	1.000000	1.63644e-11	1.000000
rad2	1.02193e-11	1.000000	1.02363e-11	1.000000
PhCH2CCH+H	7.51670e-12	1.000000	7.52921e-12	1.000000
rad46	5.66748e-12	1.000000	5.67691e-12	1.000000
rad26	4.05677e-12	1.000000	4.06352e-12	1.000000

rad7	1.24147e-12	1.000000	1.24353e-12	1.000000
rad10	8.03861e-13	1.000000	8.05199e-13	1.000000
rad1	7.70242e-13	1.000000	7.71524e-13	1.000000
rad60syn	7.07965e-13	1.000000	7.09144e-13	1.000000
rad37	6.05562e-13	1.000000	6.06570e-13	1.000000
rad11	3.05179e-13	1.000000	3.05687e-13	1.000000
rad60anti	2.13244e-13	1.000000	2.13599e-13	1.000000
rad3	1.93082e-13	1.000000	1.93404e-13	1.000000
rad4	9.60408e-14	1.000000	9.62006e-14	1.000000
rad13	7.15883e-15	1.000000	7.17074e-15	1.000000
PAH3+H	6.24906e-15	1.000000	6.25946e-15	1.000000
rad59	1.44646e-15	1.000000	1.44887e-15	1.000000
rad23	1.44418e-16	1.000000	1.44658e-16	1.000000
rad50	1.03024e-16	1.000000	1.03196e-16	1.000000
rad20	7.81366e-17	1.000000	7.82666e-17	1.000000
rad21	4.99569e-17	1.000000	5.00401e-17	1.000000
rad27	2.81854e-17	1.000000	2.82323e-17	1.000000
rad19syn	2.69219e-17	1.000000	2.69667e-17	1.000000
rad33	2.16544e-17	1.000000	2.16904e-17	1.000000
rad14	1.11465e-17	1.000000	1.11650e-17	1.000000
rad25	9.88368e-18	1.000000	9.90013e-18	1.000000
rad45	9.24312e-18	1.000000	9.25850e-18	1.000000
rad18	1.88474e-18	1.000000	1.88787e-18	1.000000
rad22	1.53948e-18	1.000000	1.54204e-18	1.000000
rad67	1.20173e-18	1.000000	1.20373e-18	1.000000
rad54	8.62468e-19	1.000000	8.63904e-19	1.000000
PAH10+CH3	5.71972e-19	1.000000	5.72924e-19	1.000000
rad36	3.15061e-19	1.000000	3.15586e-19	1.000000
rad43	1.19050e-19	1.000000	1.19249e-19	1.000000
rad52	6.28747e-20	1.000000	6.29793e-20	1.000000
rad62	4.05052e-20	1.000000	4.05727e-20	1.000000
PhcycC3H3_A+H	7.38944e-21	1.000000	7.40173e-21	1.000000
rad31	4.01814e-21	1.000000	4.02483e-21	1.000000
rad51	3.46093e-21	1.000000	3.46669e-21	1.000000
rad70	3.35423e-21	1.000000	3.35981e-21	1.000000
rad55	1.33538e-21	1.000000	1.33760e-21	1.000000
rad58	3.59869e-22	1.000000	3.60468e-22	1.000000
PAH1+H	2.76409e-22	1.000000	2.76869e-22	1.000000
rad24	1.73488e-22	1.000000	1.73776e-22	1.000000
rad65	4.20415e-23	1.000000	4.21115e-23	1.000000
rad34	1.85425e-23	1.000000	1.85734e-23	1.000000
rad42	4.75218e-25	1.000000	4.76009e-25	1.000000
rad41	1.44595e-25	1.000000	1.44836e-25	1.000000
rad9	1.17249e-25	1.000000	1.17444e-25	1.000000
rad53	6.41324e-27	1.000000	6.42392e-27	1.000000
rad64	1.37052e-27	1.000000	1.37280e-27	1.000000
rad15	6.86063e-29	1.000000	6.87204e-29	1.000000
rad56	9.20939e-30	1.000000	9.22472e-30	1.000000
rad61	1.39478e-30	1.000000	1.39710e-30	1.000000
rad68syn	1.01949e-30	1.000000	1.02119e-30	1.000000
rad68anti	7.27727e-31	1.000000	7.28938e-31	1.000000
rad5	1.48576e-31	1.000000	1.48824e-31	1.000000
rad12	8.84323e-32	1.000000	8.85795e-32	1.000000
rad73	2.19627e-33	1.000000	2.19993e-33	1.000000
rad40syn	2.30546e-34	1.000000	2.30930e-34	1.000000
rad40anti	7.00542e-35	1.000000	7.01708e-35	1.000000
rad47	2.39996e-37	1.000000	2.40395e-37	1.000000
rad71	2.29536e-39	1.000000	2.29918e-39	1.000000
PAH8+H	7.78004e-40	1.000000	7.79299e-40	1.000000
rad72	4.05077e-45	1.000000	4.05751e-45	1.000000
rad8	2.66068e-46	1.000000	2.66511e-46	1.000000

0.100000000E-07 Pa, 310.000000 K

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

Total | 2.44453e-22 (1.00) | 2.44054e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998366	0.998366	0.999998	0.999998
Benzyl+C2H2	0.00163189	0.999998	0.000000	0.999998
PhCCH+CH3	7.61278e-07	0.999999	7.62523e-07	0.999999
PhCHCCH2+H	4.78178e-07	0.999999	4.78959e-07	0.999999
PhCCCH3+H	2.76250e-07	0.999999	2.76702e-07	1.000000
rad30	5.84662e-08	0.999999	5.85618e-08	1.000000
Ph+MeAc	1.35870e-08	0.999999	1.36092e-08	1.000000
rad15	8.75423e-09	0.999999	8.76854e-09	1.000000
PAH9+H	7.07588e-09	0.999999	7.08745e-09	1.000000
rad35	4.11579e-09	0.999999	4.12252e-09	1.000000

rad6	3.37678e-09	1.000000	3.38230e-09	1.000000
rad8	2.65491e-09	1.000000	2.65925e-09	1.000000
rad38	1.67249e-09	1.000000	1.67522e-09	1.000000
rad9	1.66330e-09	1.000000	1.66602e-09	1.000000
PAH7+H	1.07655e-09	1.000000	1.07831e-09	1.000000
Ph+Allene	1.01826e-09	1.000000	1.01992e-09	1.000000
rad39	1.93122e-10	1.000000	1.93438e-10	1.000000
rad12	1.09977e-10	1.000000	1.10157e-10	1.000000
rad28	3.84767e-11	1.000000	3.85396e-11	1.000000
PhCH2CCH+H	2.04110e-11	1.000000	2.04443e-11	1.000000
rad46	1.09555e-11	1.000000	1.09734e-11	1.000000
rad2	7.26377e-12	1.000000	7.27564e-12	1.000000
rad26	5.05140e-12	1.000000	5.05966e-12	1.000000
rad37	1.66365e-12	1.000000	1.66637e-12	1.000000
rad60syn	1.63169e-12	1.000000	1.63436e-12	1.000000
rad1	5.67012e-13	1.000000	5.67939e-13	1.000000
rad60anti	5.39033e-13	1.000000	5.39914e-13	1.000000
rad10	3.05259e-13	1.000000	3.05758e-13	1.000000
rad7	2.57776e-13	1.000000	2.58197e-13	1.000000
rad11	6.44059e-14	1.000000	6.45112e-14	1.000000
rad3	5.90184e-14	1.000000	5.91149e-14	1.000000
rad5	4.67694e-14	1.000000	4.68459e-14	1.000000
rad4	3.16768e-14	1.000000	3.17286e-14	1.000000
PAH3+H	1.51219e-14	1.000000	1.51467e-14	1.000000
rad59	4.36101e-15	1.000000	4.36813e-15	1.000000
rad13	1.49218e-15	1.000000	1.49462e-15	1.000000
rad50	3.17584e-16	1.000000	3.18103e-16	1.000000
rad19syn	1.01011e-16	1.000000	1.01176e-16	1.000000
rad27	2.80184e-17	1.000000	2.80642e-17	1.000000
rad14	1.37021e-17	1.000000	1.37245e-17	1.000000
rad25	1.33345e-17	1.000000	1.33563e-17	1.000000
rad54	3.50801e-18	1.000000	3.51374e-18	1.000000
rad33	3.28356e-18	1.000000	3.28892e-18	1.000000
PAH10+CH3	2.26101e-18	1.000000	2.26470e-18	1.000000
rad20	1.19173e-18	1.000000	1.19368e-18	1.000000
rad21	7.83236e-19	1.000000	7.84516e-19	1.000000
rad43	5.14357e-19	1.000000	5.15197e-19	1.000000
rad52	2.26217e-19	1.000000	2.26587e-19	1.000000
rad62	1.76311e-19	1.000000	1.76600e-19	1.000000
rad23	1.71321e-19	1.000000	1.71601e-19	1.000000
PhcycC3H3_A+H	2.37749e-20	1.000000	2.38138e-20	1.000000
rad51	1.42634e-20	1.000000	1.42867e-20	1.000000
rad70	1.35852e-20	1.000000	1.36074e-20	1.000000
rad45	1.14736e-20	1.000000	1.14924e-20	1.000000
rad55	5.98370e-21	1.000000	5.99349e-21	1.000000
rad18	4.52951e-21	1.000000	4.53691e-21	1.000000
rad31	2.16234e-21	1.000000	2.16587e-21	1.000000
rad58	1.57034e-21	1.000000	1.57291e-21	1.000000
PAH1+H	7.93483e-22	1.000000	7.94780e-22	1.000000
rad36	7.59191e-22	1.000000	7.60432e-22	1.000000
rad22	2.51837e-22	1.000000	2.52249e-22	1.000000
rad65	1.69845e-22	1.000000	1.70123e-22	1.000000
rad34	5.35999e-23	1.000000	5.36875e-23	1.000000
rad42	1.01340e-24	1.000000	1.01506e-24	1.000000
rad24	4.11793e-25	1.000000	4.12466e-25	1.000000
rad41	3.07228e-25	1.000000	3.07730e-25	1.000000
rad47	1.45559e-36	1.000000	1.45797e-36	1.000000

0.100000000E-07 Pa, 400.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.60269e-20 (1.00)	3.57081e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.991128	0.991128	0.999976	0.999976
Benzyl+C2H2	0.00884848	0.999976	0.000000	0.999976
PhCCH+CH3	1.23505e-05	0.999989	1.24608e-05	0.999988
PhCHCCH2+H	5.95042e-06	0.999995	6.00354e-06	0.999994
PhCCH3+H	3.90745e-06	0.999999	3.94234e-06	0.999998
Ph+MeAc	5.34638e-07	0.999999	5.39411e-07	0.999999
rad30	4.02127e-07	1.000000	4.05716e-07	0.999999
PAH9+H	6.80803e-08	1.000000	6.86880e-08	0.999999
Ph+Allene	6.39781e-08	1.000000	6.45492e-08	0.999999
PAH7+H	4.50278e-08	1.000000	4.54297e-08	1.000000
rad35	2.73752e-08	1.000000	2.76196e-08	1.000000
rad38	1.63212e-08	1.000000	1.64670e-08	1.000000
rad39	8.59872e-09	1.000000	8.67548e-09	1.000000
PhCH2CCH+H	4.56270e-09	1.000000	4.60343e-09	1.000000

rad6	1.72298e-09	1.000000	1.73836e-09	1.000000
rad19anti	8.44423e-10	1.000000	8.51962e-10	1.000000
rad46	3.06009e-10	1.000000	3.08741e-10	1.000000
rad37	1.38254e-10	1.000000	1.39488e-10	1.000000
rad60syn	9.47275e-11	1.000000	9.55731e-11	1.000000
rad60anti	3.76555e-11	1.000000	3.79916e-11	1.000000
rad28	1.36043e-11	1.000000	1.37258e-11	1.000000
PAH3+H	6.50520e-12	1.000000	6.56327e-12	1.000000
rad2	2.74108e-12	1.000000	2.76555e-12	1.000000
rad26	1.83513e-12	1.000000	1.85151e-12	1.000000
rad59	1.36005e-12	1.000000	1.37219e-12	1.000000
rad1	2.55749e-13	1.000000	2.58032e-13	1.000000
rad10	2.50860e-13	1.000000	2.53099e-13	1.000000
rad7	1.62158e-13	1.000000	1.63606e-13	1.000000
rad50	1.35994e-13	1.000000	1.37208e-13	1.000000
rad19syn	1.28743e-13	1.000000	1.29892e-13	1.000000
rad11	4.21856e-14	1.000000	4.25622e-14	1.000000
rad3	2.35485e-14	1.000000	2.37587e-14	1.000000
rad4	1.24117e-14	1.000000	1.25225e-14	1.000000
rad23	1.09009e-14	1.000000	1.09982e-14	1.000000
rad54	8.91593e-15	1.000000	8.99553e-15	1.000000
PAH10+CH3	4.84579e-15	1.000000	4.88906e-15	1.000000
rad45	1.77026e-15	1.000000	1.78607e-15	1.000000
rad67	1.67319e-15	1.000000	1.68812e-15	1.000000
rad13	9.96379e-16	1.000000	1.00527e-15	1.000000
rad43	8.69681e-16	1.000000	8.77445e-16	1.000000
rad62	4.86641e-16	1.000000	4.90986e-16	1.000000
rad52	4.03329e-16	1.000000	4.06930e-16	1.000000
PhcycC3H3_A+H	3.21885e-16	1.000000	3.24758e-16	1.000000
rad70	1.20384e-16	1.000000	1.21459e-16	1.000000
rad51	7.61818e-17	1.000000	7.68619e-17	1.000000
rad36	6.82457e-17	1.000000	6.88549e-17	1.000000
rad55	5.04270e-17	1.000000	5.08771e-17	1.000000
rad20	4.10338e-17	1.000000	4.14001e-17	1.000000
rad21	2.86958e-17	1.000000	2.89520e-17	1.000000
PAH1+H	2.44002e-17	1.000000	2.46180e-17	1.000000
rad58	1.79710e-17	1.000000	1.81314e-17	1.000000
rad27	1.02284e-17	1.000000	1.03197e-17	1.000000
rad14	8.22605e-18	1.000000	8.29949e-18	1.000000
rad25	7.37929e-18	1.000000	7.44517e-18	1.000000
rad33	4.40182e-18	1.000000	4.44112e-18	1.000000
rad34	2.03113e-18	1.000000	2.04927e-18	1.000000
rad65	1.53287e-18	1.000000	1.54656e-18	1.000000
rad18	7.76319e-19	1.000000	7.83249e-19	1.000000
rad22	4.94649e-19	1.000000	4.99065e-19	1.000000
rad42	7.25697e-20	1.000000	7.32176e-20	1.000000
rad41	2.24628e-20	1.000000	2.26633e-20	1.000000
rad31	6.44234e-21	1.000000	6.49985e-21	1.000000
rad53	5.65474e-21	1.000000	5.70523e-21	1.000000
rad64	1.81586e-21	1.000000	1.83207e-21	1.000000
rad24	5.54049e-22	1.000000	5.58995e-22	1.000000
rad56	6.60997e-23	1.000000	6.66898e-23	1.000000
rad68syn	8.53494e-24	1.000000	8.61114e-24	1.000000
rad68anti	6.16419e-24	1.000000	6.21922e-24	1.000000
rad9	4.54397e-24	1.000000	4.58454e-24	1.000000
rad61	4.52866e-24	1.000000	4.56909e-24	1.000000
rad73	2.09254e-25	1.000000	2.11122e-25	1.000000
rad40syn	4.85081e-26	1.000000	4.89411e-26	1.000000
PAH8+H	2.50897e-26	1.000000	2.53137e-26	1.000000
rad40anti	1.16020e-26	1.000000	1.17056e-26	1.000000
rad71	6.26674e-27	1.000000	6.32269e-27	1.000000
rad15	2.74665e-27	1.000000	2.77117e-27	1.000000
rad5	2.42636e-29	1.000000	2.44803e-29	1.000000
rad12	1.57122e-29	1.000000	1.58524e-29	1.000000
rad72	1.18364e-32	1.000000	1.19421e-32	1.000000
rad47	5.32422e-33	1.000000	5.37175e-33	1.000000
rad8	1.01992e-42	1.000000	1.02902e-42	1.000000

0.100000000E-07 Pa, 500.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.18787e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.968764	0.968764	0.999822	0.999822
Benzyl+C2H2	0.0310635	0.999827	0.00000	0.999822
PhCCH+CH3	9.35930e-05	0.999921	9.65935e-05	0.999919
PhCHCCH2+H	4.00561e-05	0.999961	4.13403e-05	0.999960

PhCCCH3+H	2.54431e-05	0.999987	2.62588e-05	0.999986
Ph+MeAc	7.07386e-06	0.999994	7.30064e-06	0.999993
rad30	2.19669e-06	0.999996	2.26711e-06	0.999996
Ph+Allene	2.05092e-06	0.999998	2.11667e-06	0.999998
PAH7+H	6.80746e-07	0.999999	7.02570e-07	0.999999
PAH9+H	4.84045e-07	0.999999	4.99563e-07	0.999999
PhCH2CCH+H	2.44801e-07	0.999999	2.52649e-07	0.999999
rad35	1.65639e-07	0.999999	1.70949e-07	1.000000
rad39	1.51520e-07	1.000000	1.56377e-07	1.000000
rad38	1.34449e-07	1.000000	1.38759e-07	1.000000
rad19anti	1.41564e-08	1.000000	1.46102e-08	1.000000
rad46	5.06638e-09	1.000000	5.22881e-09	1.000000
rad37	2.86983e-09	1.000000	2.96184e-09	1.000000
rad60syn	2.17485e-09	1.000000	2.24457e-09	1.000000
rad60anti	9.78348e-10	1.000000	1.00971e-09	1.000000
PAH3+H	4.98713e-10	1.000000	5.14701e-10	1.000000
rad6	2.13335e-10	1.000000	2.20174e-10	1.000000
rad59	9.55001e-11	1.000000	9.85617e-11	1.000000
rad19syn	2.21128e-11	1.000000	2.28217e-11	1.000000
rad50	1.38223e-11	1.000000	1.42654e-11	1.000000
rad28	2.61904e-12	1.000000	2.70300e-12	1.000000
rad54	2.40094e-12	1.000000	2.47791e-12	1.000000
rad2	1.14218e-12	1.000000	1.17880e-12	1.000000
PAH10+CH3	9.70418e-13	1.000000	1.00153e-12	1.000000
rad26	4.42272e-13	1.000000	4.56451e-13	1.000000
rad67	2.37492e-13	1.000000	2.45106e-13	1.000000
PhcycC3H3_A+H	2.03140e-13	1.000000	2.09652e-13	1.000000
rad23	1.63066e-13	1.000000	1.68294e-13	1.000000
rad43	1.48445e-13	1.000000	1.53204e-13	1.000000
rad1	1.37217e-13	1.000000	1.41616e-13	1.000000
rad62	1.23066e-13	1.000000	1.27012e-13	1.000000
rad52	1.00173e-13	1.000000	1.03384e-13	1.000000
rad10	7.16763e-14	1.000000	7.39742e-14	1.000000
rad70	6.56843e-14	1.000000	6.77901e-14	1.000000
rad45	4.11039e-14	1.000000	4.24217e-14	1.000000
rad51	3.84245e-14	1.000000	3.96563e-14	1.000000
rad55	2.77305e-14	1.000000	2.86195e-14	1.000000
PAH1+H	2.28960e-14	1.000000	2.36300e-14	1.000000
rad7	2.17299e-14	1.000000	2.24265e-14	1.000000
rad3	1.27305e-14	1.000000	1.31386e-14	1.000000
rad58	1.24937e-14	1.000000	1.28942e-14	1.000000
rad4	7.20272e-15	1.000000	7.43363e-15	1.000000
rad11	6.30837e-15	1.000000	6.51062e-15	1.000000
rad36	2.22616e-15	1.000000	2.29753e-15	1.000000
rad34	2.11777e-15	1.000000	2.18567e-15	1.000000
rad65	9.80428e-16	1.000000	1.01186e-15	1.000000
rad13	1.53273e-16	1.000000	1.58186e-16	1.000000
rad42	8.25256e-17	1.000000	8.51713e-17	1.000000
rad20	3.27940e-17	1.000000	3.38453e-17	1.000000
rad21	2.58372e-17	1.000000	2.66655e-17	1.000000
rad41	2.35251e-17	1.000000	2.42793e-17	1.000000
rad53	2.01904e-17	1.000000	2.08377e-17	1.000000
rad64	7.88166e-18	1.000000	8.13434e-18	1.000000
rad14	2.96386e-18	1.000000	3.05888e-18	1.000000
rad25	2.72290e-18	1.000000	2.81020e-18	1.000000
rad27	2.61919e-18	1.000000	2.70316e-18	1.000000
rad33	1.39637e-18	1.000000	1.44114e-18	1.000000
rad56	7.26381e-19	1.000000	7.49668e-19	1.000000
rad18	4.11003e-19	1.000000	4.24179e-19	1.000000
rad22	1.80361e-19	1.000000	1.86144e-19	1.000000
rad68syn	9.96094e-20	1.000000	1.02803e-19	1.000000
rad68anti	7.08132e-20	1.000000	7.30835e-20	1.000000
rad61	2.98911e-20	1.000000	3.08494e-20	1.000000
rad31	1.29639e-20	1.000000	1.33795e-20	1.000000
rad73	6.71346e-21	1.000000	6.92869e-21	1.000000
rad24	4.11954e-21	1.000000	4.25161e-21	1.000000
rad40syn	1.51482e-21	1.000000	1.56339e-21	1.000000
PAH8+H	1.48007e-21	1.000000	1.52752e-21	1.000000
rad71	5.89485e-22	1.000000	6.08384e-22	1.000000
rad40anti	4.04837e-22	1.000000	4.17815e-22	1.000000
rad9	2.38945e-22	1.000000	2.46606e-22	1.000000
rad72	1.18192e-24	1.000000	1.21981e-24	1.000000
rad15	1.52529e-25	1.000000	1.57419e-25	1.000000
rad12	5.38335e-27	1.000000	5.55593e-27	1.000000
rad5	3.46325e-28	1.000000	3.57428e-28	1.000000
rad47	2.95499e-30	1.000000	3.04973e-30	1.000000
rad8	6.41091e-39	1.000000	6.61644e-39	1.000000

0.100000000E-07 Pa, 600.000000 K

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Rate constant	True (fraction)		Effective (fraction)	
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Total	1.36947e-17	(1.00)	1.26193e-17	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.920850	0.920850	0.999326	0.999326
Benzyl+C2H2	0.0785283	0.999378	0.00000	0.999326
PhCCH+CH3	0.000333045	0.999711	0.000361427	0.999687
PhCHCCH2+H	0.000137020	0.999848	0.000148697	0.999836
PhCCCH3+H	7.54035e-05	0.999924	8.18295e-05	0.999918
Ph+MeAc	3.38749e-05	0.999958	3.67618e-05	0.999955
Ph+Allene	2.17077e-05	0.999979	2.35577e-05	0.999978
rad30	7.59256e-06	0.999987	8.23960e-06	0.999987
PAH7+H	4.39153e-06	0.999991	4.76577e-06	0.999991
PhCH2CCH+H	3.66168e-06	0.999995	3.97373e-06	0.999995
PAH9+H	2.21748e-06	0.999997	2.40646e-06	0.999998
rad39	1.04275e-06	0.999998	1.13162e-06	0.999999
rad38	6.77227e-07	0.999999	7.34941e-07	1.000000
rad35	6.69664e-07	1.000000	7.26734e-07	1.000000
rad19anti	1.16219e-07	1.000000	1.26124e-07	1.000000
rad46	4.03894e-08	1.000000	4.38315e-08	1.000000
rad60syn	1.92850e-08	1.000000	2.09285e-08	1.000000
rad37	1.80180e-08	1.000000	1.95535e-08	1.000000
PAH3+H	9.89107e-09	1.000000	1.07340e-08	1.000000
rad60anti	9.33103e-09	1.000000	1.01262e-08	1.000000
rad59	1.75177e-09	1.000000	1.90106e-09	1.000000
rad19syn	6.85595e-10	1.000000	7.44022e-10	1.000000
rad50	3.60206e-10	1.000000	3.90903e-10	1.000000
rad54	1.00686e-10	1.000000	1.09267e-10	1.000000
PAH10+CH3	2.91649e-11	1.000000	3.16504e-11	1.000000
rad6	2.80218e-11	1.000000	3.04098e-11	1.000000
PhcycC3H3_A+H	1.50044e-11	1.000000	1.62831e-11	1.000000
rad67	9.04132e-12	1.000000	9.81183e-12	1.000000
rad52	4.62397e-12	1.000000	5.01803e-12	1.000000
rad62	4.44939e-12	1.000000	4.82857e-12	1.000000
rad70	4.33463e-12	1.000000	4.70403e-12	1.000000
rad43	3.80244e-12	1.000000	4.12649e-12	1.000000
rad51	2.80803e-12	1.000000	3.04733e-12	1.000000
PAH1+H	2.14126e-12	1.000000	2.32374e-12	1.000000
rad55	1.80944e-12	1.000000	1.96364e-12	1.000000
rad58	1.01134e-12	1.000000	1.09753e-12	1.000000
rad2	5.00661e-13	1.000000	5.43328e-13	1.000000
rad28	4.19392e-13	1.000000	4.55133e-13	1.000000
rad23	3.99372e-13	1.000000	4.33406e-13	1.000000
rad34	2.13662e-13	1.000000	2.31871e-13	1.000000
rad45	1.14384e-13	1.000000	1.24131e-13	1.000000
rad26	8.22379e-14	1.000000	8.92462e-14	1.000000
rad65	8.07418e-14	1.000000	8.76227e-14	1.000000
rad1	7.49083e-14	1.000000	8.12920e-14	1.000000
rad10	1.80791e-14	1.000000	1.96198e-14	1.000000
rad36	9.33317e-15	1.000000	1.01286e-14	1.000000
rad42	8.05554e-15	1.000000	8.74203e-15	1.000000
rad3	6.94605e-15	1.000000	7.53800e-15	1.000000
rad53	4.55499e-15	1.000000	4.94317e-15	1.000000
rad4	4.21481e-15	1.000000	4.57400e-15	1.000000
rad7	3.21943e-15	1.000000	3.49379e-15	1.000000
rad41	2.01462e-15	1.000000	2.18630e-15	1.000000
rad64	1.93953e-15	1.000000	2.10482e-15	1.000000
rad11	1.17052e-15	1.000000	1.27027e-15	1.000000
rad56	3.44489e-16	1.000000	3.73846e-16	1.000000
rad68syn	4.92115e-17	1.000000	5.34053e-17	1.000000
rad20	4.39483e-17	1.000000	4.76937e-17	1.000000
rad21	3.92596e-17	1.000000	4.26054e-17	1.000000
rad68anti	3.44262e-17	1.000000	3.73600e-17	1.000000
rad13	3.32182e-17	1.000000	3.60490e-17	1.000000
rad61	9.41089e-18	1.000000	1.02129e-17	1.000000
rad73	7.89870e-18	1.000000	8.57183e-18	1.000000
PAH8+H	2.20157e-18	1.000000	2.38919e-18	1.000000
rad71	1.93751e-18	1.000000	2.10262e-18	1.000000
rad40syn	1.45406e-18	1.000000	1.57798e-18	1.000000
rad14	8.72660e-19	1.000000	9.47029e-19	1.000000
rad33	8.65162e-19	1.000000	9.38892e-19	1.000000
rad25	8.44792e-19	1.000000	9.16786e-19	1.000000
rad27	6.99590e-19	1.000000	7.59209e-19	1.000000
rad40anti	4.39177e-19	1.000000	4.76604e-19	1.000000
rad18	3.12558e-19	1.000000	3.39194e-19	1.000000
rad22	8.10338e-20	1.000000	8.79395e-20	1.000000
rad24	5.16591e-20	1.000000	5.60616e-20	1.000000
rad72	2.77500e-20	1.000000	3.01148e-20	1.000000

rad9	1.78355e-20	1.000000	1.93554e-20	1.00000
rad31	1.61043e-20	1.000000	1.74767e-20	1.00000
rad15	1.07632e-23	1.000000	1.16805e-23	1.00000
rad12	2.10242e-24	1.000000	2.28159e-24	1.00000
rad5	1.65326e-27	1.000000	1.79415e-27	1.00000
rad47	2.24943e-28	1.000000	2.44113e-28	1.00000
rad8	9.50900e-35	1.000000	1.03194e-34	1.00000

0.100000000E-07 Pa, 700.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	6.78335e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.844045	0.844045	0.998243	0.998243
Benzyl+C2H2	0.154470	0.998515	0.00000	0.998243
PhCCH+CH3	0.000746434	0.999261	0.000882800	0.999126
PhCHCCH2+H	0.000320585	0.999582	0.000379153	0.999505
PhCCCH3+H	0.000136742	0.999719	0.000161724	0.999667
Ph+Allene	0.000115963	0.999835	0.000137148	0.999804
Ph+MeAc	8.86607e-05	0.999923	0.000104858	0.999909
PhCH2CCH+H	2.52612e-05	0.999949	2.98762e-05	0.999939
rad30	1.89338e-05	0.999968	2.23928e-05	0.999961
PAH7+H	1.64063e-05	0.999984	1.94036e-05	0.999980
PAH9+H	7.24066e-06	0.999991	8.56345e-06	0.999989
rad39	3.97935e-06	0.999995	4.70633e-06	0.999994
rad38	2.36433e-06	0.999998	2.79627e-06	0.999996
rad35	1.97985e-06	1.000000	2.34155e-06	0.999999
rad19anti	5.91542e-07	1.00000	6.99611e-07	0.999999
rad46	1.95974e-07	1.00000	2.31776e-07	1.000000
rad60syn	9.47747e-08	1.00000	1.12089e-07	1.000000
PAH3+H	8.73469e-08	1.00000	1.03304e-07	1.000000
rad37	5.67278e-08	1.00000	6.70914e-08	1.000000
rad60anti	4.82184e-08	1.00000	5.70274e-08	1.00000
rad59	1.44140e-08	1.00000	1.70472e-08	1.00000
rad19syn	7.75621e-09	1.00000	9.17319e-09	1.00000
rad50	4.08621e-09	1.00000	4.83271e-09	1.00000
rad54	1.41341e-09	1.00000	1.67162e-09	1.00000
PhcycC3H3_A+H	3.16562e-10	1.00000	3.74395e-10	1.00000
PAH10+CH3	2.96583e-10	1.00000	3.50766e-10	1.00000
rad67	1.46304e-10	1.00000	1.73032e-10	1.00000
rad70	8.36625e-11	1.00000	9.89467e-11	1.00000
rad52	7.81491e-11	1.00000	9.24262e-11	1.00000
rad51	6.57347e-11	1.00000	7.77438e-11	1.00000
rad62	5.24317e-11	1.00000	6.20104e-11	1.00000
PAH1+H	5.21513e-11	1.00000	6.16787e-11	1.00000
rad55	3.42217e-11	1.00000	4.04737e-11	1.00000
rad43	3.27206e-11	1.00000	3.86983e-11	1.00000
rad58	2.36726e-11	1.00000	2.79973e-11	1.00000
rad34	5.57915e-12	1.00000	6.59840e-12	1.00000
rad6	4.12147e-12	1.00000	4.87442e-12	1.00000
rad65	2.00944e-12	1.00000	2.37654e-12	1.00000
rad23	2.89145e-13	1.00000	3.41969e-13	1.00000
rad53	2.08843e-13	1.00000	2.46996e-13	1.00000
rad42	1.92430e-13	1.00000	2.27585e-13	1.00000
rad2	1.80322e-13	1.00000	2.13265e-13	1.00000
rad45	9.76480e-14	1.00000	1.15487e-13	1.00000
rad64	9.12030e-14	1.00000	1.07865e-13	1.00000
rad28	6.46412e-14	1.00000	7.64505e-14	1.00000
rad41	4.12886e-14	1.00000	4.88315e-14	1.00000
rad1	3.03647e-14	1.00000	3.59120e-14	1.00000
rad56	2.67456e-14	1.00000	3.16317e-14	1.00000
rad26	1.41549e-14	1.00000	1.67408e-14	1.00000
rad36	8.36073e-15	1.00000	9.88815e-15	1.00000
rad10	4.94589e-15	1.00000	5.84946e-15	1.00000
rad68syn	3.96310e-15	1.00000	4.68712e-15	1.00000
rad68anti	2.73680e-15	1.00000	3.23679e-15	1.00000
rad3	2.05088e-15	1.00000	2.42555e-15	1.00000
rad4	1.33385e-15	1.00000	1.57753e-15	1.00000
rad73	1.13675e-15	1.00000	1.34443e-15	1.00000
rad7	5.86101e-16	1.00000	6.93176e-16	1.00000
rad61	5.36023e-16	1.00000	6.33948e-16	1.00000
PAH8+H	3.93128e-16	1.00000	4.64949e-16	1.00000
rad11	3.32186e-16	1.00000	3.92873e-16	1.00000
rad71	2.64533e-16	1.00000	3.12861e-16	1.00000
rad40syn	1.89157e-16	1.00000	2.23714e-16	1.00000
rad20	9.46268e-17	1.00000	1.11914e-16	1.00000
rad21	9.16147e-17	1.00000	1.08352e-16	1.00000

rad40anti	6.36576e-17	1.00000	7.52872e-17	1.00000
rad13	1.76005e-17	1.00000	2.08160e-17	1.00000
rad9	1.08171e-18	1.00000	1.27933e-18	1.00000
rad33	1.04823e-18	1.00000	1.23973e-18	1.00000
rad72	1.02341e-18	1.00000	1.21038e-18	1.00000
rad24	5.53560e-19	1.00000	6.54690e-19	1.00000
rad18	3.75527e-19	1.00000	4.44132e-19	1.00000
rad25	3.17277e-19	1.00000	3.75240e-19	1.00000
rad14	2.91146e-19	1.00000	3.44336e-19	1.00000
rad27	2.60757e-19	1.00000	3.08394e-19	1.00000
rad22	4.70653e-20	1.00000	5.56637e-20	1.00000
rad31	1.07536e-20	1.00000	1.27182e-20	1.00000
rad15	4.30266e-22	1.00000	5.08871e-22	1.00000
rad12	2.79159e-22	1.00000	3.30158e-22	1.00000
rad5	4.87552e-27	1.00000	5.76623e-27	1.00000
rad47	4.45888e-27	1.00000	5.27347e-27	1.00000
rad8	1.57148e-30	1.00000	1.85857e-30	1.00000

0.100000000E-07 Pa, 800.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.12228e-16 (1.00)	2.33587e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745326	0.745326	0.996252	0.996252
Benzyl+C2H2	0.251870	0.997196	0.00000	0.996252
PhCCH+CH3	0.00124162	0.998438	0.00165963	0.997912
PhCHCCH2+H	0.000603921	0.999042	0.000807240	0.998719
Ph+Allene	0.000391607	0.999433	0.000523449	0.999242
PhCCCH3+H	0.000180412	0.999614	0.000241151	0.999483
Ph+MeAc	0.000158702	0.999772	0.000212132	0.999696
PhCH2CCH+H	0.000104747	0.999877	0.000140012	0.999836
PAH7+H	4.20043e-05	0.999919	5.61457e-05	0.999892
rad30	3.73181e-05	0.999956	4.98819e-05	0.999942
PAH9+H	1.83027e-05	0.999975	2.44646e-05	0.999966
rad39	1.01670e-05	0.999985	1.35899e-05	0.999980
rad38	6.28638e-06	0.999991	8.40280e-06	0.999988
rad35	4.61792e-06	0.999996	6.17262e-06	0.999994
rad19anti	2.13374e-06	0.999998	2.85210e-06	0.999997
rad46	6.69423e-07	0.999999	8.94796e-07	0.999998
PAH3+H	4.55926e-07	0.999999	6.09421e-07	0.999999
rad60syn	3.14534e-07	0.999999	4.20427e-07	0.999999
rad60anti	1.66149e-07	0.999999	2.22085e-07	0.999999
rad37	1.16536e-07	1.00000	1.55770e-07	0.999999
rad59	7.05288e-08	1.00000	9.42735e-08	1.00000
rad19syn	4.57469e-08	1.00000	6.11483e-08	1.00000
rad50	2.67320e-08	1.00000	3.57318e-08	1.00000
rad54	9.79642e-09	1.00000	1.30945e-08	1.00000
PhcycC3H3_A+H	2.99417e-09	1.00000	4.00220e-09	1.00000
PAH10+CH3	1.56080e-09	1.00000	2.08627e-09	1.00000
rad67	1.31109e-09	1.00000	1.75248e-09	1.00000
rad51	7.39000e-10	1.00000	9.87797e-10	1.00000
rad70	7.37566e-10	1.00000	9.85880e-10	1.00000
rad52	6.86810e-10	1.00000	9.18036e-10	1.00000
PAH1+H	5.38349e-10	1.00000	7.19593e-10	1.00000
rad62	3.04694e-10	1.00000	4.07274e-10	1.00000
rad55	2.93955e-10	1.00000	3.92920e-10	1.00000
rad58	2.53305e-10	1.00000	3.38585e-10	1.00000
rad43	1.42321e-10	1.00000	1.90236e-10	1.00000
rad34	6.18274e-11	1.00000	8.26426e-11	1.00000
rad65	2.32781e-11	1.00000	3.11151e-11	1.00000
rad53	3.49856e-12	1.00000	4.67641e-12	1.00000
rad42	1.90218e-12	1.00000	2.54258e-12	1.00000
rad64	1.51195e-12	1.00000	2.02097e-12	1.00000
rad6	7.47715e-13	1.00000	9.99446e-13	1.00000
rad56	6.63908e-13	1.00000	8.87424e-13	1.00000
rad41	3.47550e-13	1.00000	4.64559e-13	1.00000
rad23	1.23808e-13	1.00000	1.65490e-13	1.00000
rad68syn	1.02293e-13	1.00000	1.36731e-13	1.00000
rad68anti	6.99233e-14	1.00000	9.34641e-14	1.00000
rad45	5.34164e-14	1.00000	7.14000e-14	1.00000
rad73	5.14806e-14	1.00000	6.88124e-14	1.00000
rad2	4.98435e-14	1.00000	6.66241e-14	1.00000
PAH8+H	1.87299e-14	1.00000	2.50356e-14	1.00000
rad71	1.53044e-14	1.00000	2.04568e-14	1.00000
rad28	1.08916e-14	1.00000	1.45584e-14	1.00000
rad61	1.08816e-14	1.00000	1.45451e-14	1.00000
rad1	8.12735e-15	1.00000	1.08636e-14	1.00000

rad40syn	7.04169e-15	1.000000	9.41239e-15	1.000000
rad36	4.45006e-15	1.000000	5.94825e-15	1.000000
rad26	2.61506e-15	1.000000	3.49546e-15	1.000000
rad40anti	2.59900e-15	1.000000	3.47400e-15	1.000000
rad10	1.10462e-15	1.000000	1.47650e-15	1.000000
rad3	5.71613e-16	1.000000	7.64056e-16	1.000000
rad4	3.76944e-16	1.000000	5.03848e-16	1.000000
rad20	2.64415e-16	1.000000	3.53434e-16	1.000000
rad21	2.51401e-16	1.000000	3.36039e-16	1.000000
rad11	1.83864e-16	1.000000	2.45765e-16	1.000000
rad7	1.67754e-16	1.000000	2.24231e-16	1.000000
rad13	2.78707e-17	1.000000	3.72538e-17	1.000000
rad9	2.43047e-17	1.000000	3.24872e-17	1.000000
rad72	1.38864e-17	1.000000	1.85614e-17	1.000000
rad24	2.87053e-18	1.000000	3.83694e-18	1.000000
rad33	2.00112e-18	1.000000	2.67483e-18	1.000000
rad18	7.61284e-19	1.000000	1.01758e-18	1.000000
rad25	2.03007e-19	1.000000	2.71352e-19	1.000000
rad27	1.63776e-19	1.000000	2.18914e-19	1.000000
rad14	1.45479e-19	1.000000	1.94457e-19	1.000000
rad22	3.89744e-20	1.000000	5.20958e-20	1.000000
rad12	7.13517e-21	1.000000	9.53734e-21	1.000000
rad31	5.78730e-21	1.000000	7.73569e-21	1.000000
rad15	5.54191e-21	1.000000	7.40769e-21	1.000000
rad47	4.71186e-26	1.000000	6.29819e-26	1.000000
rad5	1.28240e-26	1.000000	1.71414e-26	1.000000
rad8	8.26838e-27	1.000000	1.10521e-26	1.000000

0.100000000E-07 Pa, 900.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.21769e-16 (1.00)	5.91948e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.637601	0.637601	0.992859	0.992859
Benzyl+CH2H	0.357813	0.995414	0.000000	0.992859
PhCCH+CH3	0.00168534	0.997099	0.00262438	0.995483
PhCHCCH2+H	0.000988072	0.998087	0.00153861	0.997022
Ph+Allene	0.000956826	0.999044	0.00148995	0.998512
PhCH2CCH+H	0.000305642	0.999350	0.000475939	0.998988
Ph+MeAc	0.000221700	0.999572	0.000345227	0.999333
PhCCCH3+H	0.000192583	0.999764	0.000299886	0.999633
PAH7+H	8.18813e-05	0.999846	0.000127504	0.999760
rad30	6.20698e-05	0.999908	9.66537e-05	0.999857
PAH9+H	3.81793e-05	0.999946	5.94520e-05	0.999917
rad39	1.95088e-05	0.999966	3.03786e-05	0.999947
rad38	1.36528e-05	0.999979	2.12599e-05	0.999968
rad35	9.01875e-06	0.999988	1.40438e-05	0.999982
rad19anti	5.95507e-06	0.999994	9.27312e-06	0.999992
rad46	1.77409e-06	0.999996	2.76257e-06	0.999994
PAH3+H	1.66000e-06	0.999998	2.58491e-06	0.999997
rad60syn	7.95279e-07	0.999999	1.23839e-06	0.999998
rad60anti	4.32684e-07	0.999999	6.73766e-07	0.999999
rad59	2.41974e-07	0.999999	3.76797e-07	0.999999
rad37	1.83190e-07	1.000000	2.85260e-07	0.999999
rad19syn	1.72530e-07	1.000000	2.68660e-07	1.000000
rad50	1.19157e-07	1.000000	1.85549e-07	1.000000
rad54	4.18728e-08	1.000000	6.52034e-08	1.000000
PhcycC3H3_A+H	1.64006e-08	1.000000	2.55387e-08	1.000000
rad67	7.68849e-09	1.000000	1.19724e-08	1.000000
PAH10+CH3	5.46404e-09	1.000000	8.50849e-09	1.000000
rad51	5.02704e-09	1.000000	7.82800e-09	1.000000
rad52	3.84544e-09	1.000000	5.98804e-09	1.000000
rad70	3.82633e-09	1.000000	5.95829e-09	1.000000
PAH1+H	3.10814e-09	1.000000	4.83992e-09	1.000000
rad58	1.60256e-09	1.000000	2.49547e-09	1.000000
rad55	1.47818e-09	1.000000	2.30179e-09	1.000000
rad62	1.10198e-09	1.000000	1.71599e-09	1.000000
rad43	3.94154e-10	1.000000	6.13768e-10	1.000000
rad34	3.84578e-10	1.000000	5.98856e-10	1.000000
rad65	1.60295e-10	1.000000	2.49608e-10	1.000000
rad53	2.97668e-11	1.000000	4.63523e-11	1.000000
rad64	1.24766e-11	1.000000	1.94283e-11	1.000000
rad42	1.04398e-11	1.000000	1.62566e-11	1.000000
rad56	7.66797e-12	1.000000	1.19404e-11	1.000000
rad41	1.62748e-12	1.000000	2.53428e-12	1.000000
rad68syn	1.23548e-12	1.000000	1.92386e-12	1.000000
rad73	1.04240e-12	1.000000	1.62321e-12	1.000000

rad68anti	8.37597e-13	1.000000	1.30429e-12	1.00000
rad71	4.04489e-13	1.000000	6.29862e-13	1.00000
PAH8+H	3.69075e-13	1.000000	5.74716e-13	1.00000
rad6	1.60394e-13	1.000000	2.49761e-13	1.00000
rad61	1.15255e-13	1.000000	1.79473e-13	1.00000
rad40syn	1.13801e-13	1.000000	1.77209e-13	1.00000
rad23	4.84401e-14	1.000000	7.54299e-14	1.00000
rad40anti	4.54145e-14	1.000000	7.07185e-14	1.00000
rad45	2.48923e-14	1.000000	3.87618e-14	1.00000
rad2	1.12670e-14	1.000000	1.75448e-14	1.00000
rad36	2.17075e-15	1.000000	3.38024e-15	1.00000
rad28	1.99401e-15	1.000000	3.10503e-15	1.00000
rad1	1.92643e-15	1.000000	2.99979e-15	1.00000
rad72	6.20248e-16	1.000000	9.65836e-16	1.00000
rad20	6.04407e-16	1.000000	9.41170e-16	1.00000
rad26	5.23255e-16	1.000000	8.14802e-16	1.00000
rad21	5.11598e-16	1.000000	7.96650e-16	1.00000
rad10	2.44215e-16	1.000000	3.80286e-16	1.00000
rad11	1.82482e-16	1.000000	2.84158e-16	1.00000
rad3	1.51670e-16	1.000000	2.36178e-16	1.00000
rad9	1.24776e-16	1.000000	1.94299e-16	1.00000
rad4	1.05459e-16	1.000000	1.64219e-16	1.00000
rad7	9.50904e-17	1.000000	1.48073e-16	1.00000
rad13	6.35842e-17	1.000000	9.90119e-17	1.00000
rad24	5.74732e-18	1.000000	8.94960e-18	1.00000
rad33	3.65020e-18	1.000000	5.68402e-18	1.00000
rad18	2.21674e-18	1.000000	3.45186e-18	1.00000
rad25	2.20676e-19	1.000000	3.43631e-19	1.00000
rad27	1.37084e-19	1.000000	2.13464e-19	1.00000
rad14	1.05348e-19	1.000000	1.64045e-19	1.00000
rad22	4.58170e-20	1.000000	7.13452e-20	1.00000
rad12	3.93749e-20	1.000000	6.13137e-20	1.00000
rad15	1.97315e-20	1.000000	3.07254e-20	1.00000
rad31	3.17849e-21	1.000000	4.94948e-21	1.00000
rad8	5.05695e-24	1.000000	7.87458e-24	1.00000
rad47	3.22599e-25	1.000000	5.02344e-25	1.00000
rad5	3.37098e-26	1.000000	5.24922e-26	1.00000

0.100000000E-07 Pa, 1000.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.23691e-15 (1.00)	1.20781e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.533143	0.533143	0.987405	0.987405
Benzyl+C2H2	0.460056	0.993199	0.000000	0.987405
PhCCH+CH3	0.00197845	0.995177	0.00366418	0.991069
Ph+Allene	0.00184724	0.997025	0.00342117	0.994490
PhCHCCH2+H	0.00145011	0.998475	0.00268567	0.997176
PhCH2CCH+H	0.000695141	0.999170	0.00128743	0.998463
Ph+MeAc	0.000262360	0.999432	0.000485903	0.998949
PhCCCH3+H	0.000178027	0.999610	0.000329715	0.999279
PAH7+H	0.000130563	0.999741	0.000241809	0.999521
rad30	9.13367e-05	0.999832	0.000169160	0.999690
PAH9+H	6.89547e-05	0.999901	0.000127707	0.999818
rad39	3.03500e-05	0.999932	5.62096e-05	0.999874
rad38	2.54970e-05	0.999957	4.72216e-05	0.999921
rad35	1.54295e-05	0.999972	2.85761e-05	0.999950
rad19anti	1.36963e-05	0.999986	2.53661e-05	0.999975
PAH3+H	4.67729e-06	0.999991	8.66256e-06	0.999984
rad46	3.89964e-06	0.999995	7.22231e-06	0.999991
rad60syn	1.65646e-06	0.999996	3.06785e-06	0.999994
rad60anti	9.23124e-07	0.999997	1.70967e-06	0.999996
rad59	6.45414e-07	0.999998	1.19534e-06	0.999997
rad19syn	4.72655e-07	0.999998	8.75378e-07	0.999998
rad50	4.02263e-07	0.999999	7.45009e-07	0.999999
rad37	2.45621e-07	0.999999	4.54902e-07	0.999999
rad54	1.26767e-07	0.999999	2.34777e-07	0.999999
PhcycC3H3_A+H	6.09438e-08	0.999999	1.12871e-07	0.999999
rad67	3.29353e-08	0.999999	6.09977e-08	0.999999
rad51	2.38554e-08	0.999999	4.41812e-08	1.000000
rad52	1.55659e-08	0.999999	2.88287e-08	1.000000
PAH10+CH3	1.49501e-08	0.999999	2.76882e-08	1.000000
rad70	1.36637e-08	0.999999	2.53058e-08	1.000000
PAH1+H	1.19204e-08	0.999999	2.20771e-08	1.000000
rad58	7.00658e-09	0.999999	1.29765e-08	1.000000
rad55	5.08717e-09	0.999999	9.42168e-09	1.000000
rad62	2.86001e-09	0.999999	5.29688e-09	1.000000

rad34	1.59465e-09	0.999999	2.95336e-09	1.000000
rad43	8.01052e-10	0.999999	1.48358e-09	1.000000
rad65	7.61926e-10	0.999999	1.41112e-09	1.000000
rad53	1.57207e-10	0.999999	2.91154e-10	1.000000
rad64	6.32994e-11	0.999999	1.17233e-10	1.000000
rad56	5.17480e-11	0.999999	9.58396e-11	1.000000
rad42	3.80336e-11	0.999999	7.04399e-11	1.000000
rad73	1.18180e-11	0.999999	2.18874e-11	1.000000
rad68syn	8.78399e-12	0.999999	1.62684e-11	1.000000
rad68anti	5.91470e-12	0.999999	1.09543e-11	1.000000
rad71	5.72485e-12	0.999999	1.06027e-11	1.000000
rad41	5.10891e-12	0.999999	9.46194e-12	1.000000
PAH8+H	3.92401e-12	0.999999	7.26744e-12	1.000000
rad40syn	1.02743e-12	0.999999	1.90286e-12	1.000000
rad61	7.99639e-13	0.999999	1.48097e-12	1.000000
rad40anti	4.38114e-13	0.999999	8.11407e-13	1.000000
rad6	4.57650e-14	0.999999	8.47589e-14	1.000000
rad23	2.11577e-14	0.999999	3.91850e-14	1.000000
rad72	1.59942e-14	0.999999	2.96219e-14	1.000000
rad45	1.21106e-14	0.999999	2.24293e-14	1.000000
rad2	2.63639e-15	0.999999	4.88272e-15	1.000000
rad36	1.09171e-15	0.999999	2.02190e-15	1.000000
rad20	8.81739e-16	0.999999	1.63302e-15	1.000000
rad21	6.41659e-16	0.999999	1.18838e-15	1.000000
rad1	5.07816e-16	0.999999	9.40498e-16	1.000000
rad28	4.43554e-16	0.999999	8.21483e-16	1.000000
rad11	2.73273e-16	0.999999	5.06115e-16	1.000000
rad9	2.11940e-16	0.999999	3.92523e-16	1.000000
rad26	1.27864e-16	0.999999	2.36810e-16	1.000000
rad13	1.26802e-16	0.999999	2.34844e-16	1.000000
rad7	1.15976e-16	0.999999	2.14793e-16	1.000000
rad10	9.31693e-17	0.999999	1.72554e-16	1.000000
rad3	4.58357e-17	0.999999	8.48898e-17	1.000000
rad4	3.35226e-17	0.999999	6.20855e-17	1.000000
rad18	7.80183e-18	0.999999	1.44493e-17	1.000000
rad24	5.90769e-18	0.999999	1.09413e-17	1.000000
rad33	4.69540e-18	0.999999	8.69609e-18	1.000000
rad25	3.13967e-19	0.999999	5.81481e-19	1.000000
rad27	1.11645e-19	0.999999	2.06771e-19	1.000000
rad14	9.24131e-20	0.999999	1.71153e-19	1.000000
rad12	8.61558e-20	0.999999	1.59564e-19	1.000000
rad22	8.12619e-20	0.999999	1.50501e-19	1.000000
rad15	2.79340e-20	0.999999	5.17351e-20	1.000000
rad31	1.86001e-21	0.999999	3.44482e-21	1.000000
rad8	3.09659e-22	0.999999	5.73503e-22	1.000000
rad47	1.58916e-24	0.999999	2.94319e-24	1.000000
rad5	1.01729e-25	0.999999	1.88406e-25	1.000000

0.100000000E-07 Pa, 1100.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.11075e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.550759	0.550759	0.00000	0.00000
Indene+H	0.439889	0.990648	0.979181	0.979181
Ph+Allene	0.00299528	0.993643	0.00666742	0.985848
PhCCH+CH3	0.00208760	0.995731	0.00464694	0.990495
PhCHCCH2+H	0.00194544	0.997676	0.00433051	0.994826
PhCH2CCH+H	0.00132191	0.998998	0.00294254	0.997768
Ph+MeAc	0.000277389	0.999276	0.000617461	0.998386
PAH7+H	0.000179385	0.999455	0.000399306	0.998785
PhCCCH3+H	0.000149168	0.999604	0.000332043	0.999117
rad30	0.000123015	0.999727	0.000273827	0.999391
PAH9+H	0.000111696	0.999839	0.000248632	0.999640
rad38	4.24978e-05	0.999881	9.45991e-05	0.999734
rad39	4.04278e-05	0.999922	8.99912e-05	0.999824
rad19anti	2.71780e-05	0.999949	6.04975e-05	0.999885
rad35	2.39104e-05	0.999973	5.32238e-05	0.999938
PAH3+H	1.09195e-05	0.999984	2.43064e-05	0.999962
rad46	7.44861e-06	0.999991	1.65804e-05	0.999979
rad60syn	2.99524e-06	0.999994	6.66734e-06	0.999986
rad60anti	1.70291e-06	0.999996	3.79064e-06	0.999989
rad59	1.43231e-06	0.999997	3.18828e-06	0.999993
rad50	1.10325e-06	0.999998	2.45580e-06	0.999995
rad19syn	1.02396e-06	1.000000	2.27932e-06	0.999997
rad37	3.04609e-07	1.000000	6.78052e-07	0.999998
rad54	2.97942e-07	1.000000	6.63211e-07	0.999999

PhcycC3H3_A+H	1.70469e-07	1.00000	3.79460e-07	0.999999
rad67	1.11020e-07	1.00000	2.47128e-07	0.999999
rad51	8.66313e-08	1.00000	1.92839e-07	0.999999
rad52	4.94924e-08	1.00000	1.10169e-07	1.000000
rad70	3.72387e-08	1.00000	8.28925e-08	1.000000
PAH10+CH3	3.55700e-08	1.00000	7.91778e-08	1.000000
PAH1+H	3.40420e-08	1.00000	7.57766e-08	1.000000
rad58	2.33985e-08	1.00000	5.20844e-08	1.000000
rad55	1.32727e-08	1.00000	2.95447e-08	1.000000
rad62	5.84585e-09	1.00000	1.30127e-08	1.000000
rad34	4.93270e-09	1.00000	1.09801e-08	1.000000
rad65	2.75373e-09	1.00000	6.12974e-09	1.000000
rad43	1.31323e-09	1.00000	2.92321e-09	1.000000
rad53	5.86805e-10	1.00000	1.30621e-09	1.000000
rad56	2.36331e-10	1.00000	5.26066e-10	1.000000
rad64	2.26679e-10	1.00000	5.04581e-10	1.000000
rad42	1.03252e-10	1.00000	2.29836e-10	1.000000
rad73	8.74237e-11	1.00000	1.94603e-10	1.000000
rad71	5.09990e-11	1.00000	1.13522e-10	1.000000
rad68syn	4.26221e-11	1.00000	9.48757e-11	1.000000
rad68anti	2.85345e-11	1.00000	6.35171e-11	1.000000
PAH8+H	2.67128e-11	1.00000	5.94621e-11	1.000000
rad41	1.21931e-11	1.00000	2.71415e-11	1.000000
rad40syn	6.09410e-12	1.00000	1.35653e-11	1.000000
rad61	4.16713e-12	1.00000	9.27593e-12	1.000000
rad40anti	2.75055e-12	1.00000	6.12265e-12	1.000000
rad72	2.32326e-13	1.00000	5.17152e-13	1.000000
rad6	1.84785e-14	1.00000	4.11326e-14	1.000000
rad23	9.95711e-15	1.00000	2.21643e-14	1.000000
rad45	6.13006e-15	1.00000	1.36454e-14	1.000000
rad20	7.93855e-16	1.00000	1.76710e-15	1.000000
rad2	6.89860e-16	1.00000	1.53561e-15	1.000000
rad36	5.63192e-16	1.00000	1.25365e-15	1.000000
rad21	5.10807e-16	1.00000	1.13704e-15	1.000000
rad11	4.54274e-16	1.00000	1.01120e-15	1.000000
rad9	2.20641e-16	1.00000	4.91141e-16	1.000000
rad7	2.03769e-16	1.00000	4.53586e-16	1.000000
rad13	1.66050e-16	1.00000	3.69622e-16	1.000000
rad1	1.44673e-16	1.00000	3.22039e-16	1.000000
rad28	1.29379e-16	1.00000	2.87995e-16	1.000000
rad10	6.00329e-17	1.00000	1.33632e-16	1.000000
rad26	4.07504e-17	1.00000	9.07094e-17	1.000000
rad18	2.44826e-17	1.00000	5.44977e-17	1.000000
rad3	1.55588e-17	1.00000	3.46334e-17	1.000000
rad4	1.17248e-17	1.00000	2.60992e-17	1.000000
rad24	4.56170e-18	1.00000	1.01542e-17	1.000000
rad33	3.94209e-18	1.00000	8.77499e-18	1.000000
rad25	3.94356e-19	1.00000	8.77826e-19	1.000000
rad22	2.08609e-19	1.00000	4.64358e-19	1.000000
rad12	1.26339e-19	1.00000	2.81227e-19	1.000000
rad14	7.49662e-20	1.00000	1.66873e-19	1.000000
rad27	7.01392e-20	1.00000	1.56128e-19	1.000000
rad15	2.78226e-20	1.00000	6.19324e-20	1.000000
rad8	3.02695e-21	1.00000	6.73791e-21	1.000000
rad31	1.11579e-21	1.00000	2.48372e-21	1.000000
rad47	5.97458e-24	1.00000	1.32993e-23	1.000000
rad5	3.56911e-25	1.00000	7.94476e-25	1.000000

0.100000000E-07 Pa, 1200.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.84330e-15 (1.00)	3.30079e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.626747	0.626747	0.00000	0.00000
Indene+H	0.361139	0.987886	0.967544	0.967544
Ph+Allene	0.00426331	0.992149	0.0114220	0.978966
PhCHCCH2+H	0.00242727	0.994577	0.00650302	0.985469
PhCH2CCH+H	0.00220912	0.996786	0.00591855	0.991388
PhCCH+CH3	0.00203529	0.998821	0.00545285	0.996840
Ph+MeAc	0.000271659	0.999093	0.000727814	0.997568
PAH7+H	0.000220958	0.999314	0.000591978	0.998160
PAH9+H	0.000166476	0.999480	0.000446015	0.998606
rad30	0.000155353	0.999635	0.000416215	0.999022
PhCCCH3+H	0.000117029	0.999752	0.000313538	0.999336
rad38	6.49367e-05	0.999817	0.000173975	0.999510
rad19anti	4.80909e-05	0.999865	0.000128843	0.999639
rad39	4.80571e-05	0.999914	0.000128752	0.999768

rad35	3.43899e-05	0.999948	9.21355e-05	0.999860
PAH3+H	2.21253e-05	0.999970	5.92770e-05	0.999919
rad46	1.27762e-05	0.999983	3.42294e-05	0.999953
rad60syn	4.87439e-06	0.999988	1.30592e-05	0.999966
rad60anti	2.81860e-06	0.999991	7.55145e-06	0.999974
rad59	2.76936e-06	0.999993	7.41953e-06	0.999981
rad50	2.57972e-06	0.999996	6.91144e-06	0.999988
rad19syn	1.86136e-06	0.999998	4.98686e-06	0.999993
rad54	5.79322e-07	0.999998	1.55209e-06	0.999995
PhcycC3H3_A+H	3.85542e-07	0.999999	1.03292e-06	0.999996
rad37	3.71909e-07	0.999999	9.96399e-07	0.999997
rad67	3.10056e-07	0.999999	8.30686e-07	0.999998
rad51	2.56406e-07	1.000000	6.86949e-07	0.999998
rad52	1.30814e-07	1.000000	3.50469e-07	0.999999
rad70	8.31661e-08	1.000000	2.22814e-07	0.999999
PAH10+CH3	7.86243e-08	1.000000	2.10646e-07	0.999999
PAH1+H	7.84240e-08	1.000000	2.10109e-07	0.999999
rad58	6.38230e-08	1.000000	1.70991e-07	0.999999
rad55	2.81615e-08	1.000000	7.54487e-08	0.999999
rad34	1.22937e-08	1.000000	3.29365e-08	0.999999
rad62	1.00322e-08	1.000000	2.68777e-08	1.000000
rad65	8.07952e-09	1.000000	2.16462e-08	1.000000
rad43	1.86209e-09	1.000000	4.98881e-09	1.000000
rad53	1.69057e-09	1.000000	4.52927e-09	1.000000
rad56	8.06531e-10	1.000000	2.16081e-09	1.000000
rad64	6.30249e-10	1.000000	1.68853e-09	1.000000
rad73	4.67949e-10	1.000000	1.25370e-09	1.000000
rad71	3.19752e-10	1.000000	8.56663e-10	1.000000
rad42	2.25979e-10	1.000000	6.05431e-10	1.000000
rad68syn	1.55936e-10	1.000000	4.17774e-10	1.000000
PAH8+H	1.30631e-10	1.000000	3.49980e-10	1.000000
rad68anti	1.03878e-10	1.000000	2.78304e-10	1.000000
rad40syn	2.64822e-11	1.000000	7.09497e-11	1.000000
rad41	2.43325e-11	1.000000	6.51903e-11	1.000000
rad61	1.76266e-11	1.000000	4.72244e-11	1.000000
rad40anti	1.25561e-11	1.000000	3.36398e-11	1.000000
rad72	2.17907e-12	1.000000	5.83804e-12	1.000000
rad6	1.08161e-14	1.000000	2.89780e-14	1.000000
rad23	4.89177e-15	1.000000	1.31058e-14	1.000000
rad45	3.17746e-15	1.000000	8.51288e-15	1.000000
rad11	6.24238e-16	1.000000	1.67243e-15	1.000000
rad20	5.25317e-16	1.000000	1.40740e-15	1.000000
rad7	3.47828e-16	1.000000	9.31883e-16	1.000000
rad21	3.17166e-16	1.000000	8.49734e-16	1.000000
rad36	2.96656e-16	1.000000	7.94786e-16	1.000000
rad9	1.96351e-16	1.000000	5.26052e-16	1.000000
rad2	1.96239e-16	1.000000	5.25754e-16	1.000000
rad13	1.37592e-16	1.000000	3.68630e-16	1.000000
rad28	5.30340e-17	1.000000	1.42086e-16	1.000000
rad18	5.20685e-17	1.000000	1.39499e-16	1.000000
rad10	4.61282e-17	1.000000	1.23584e-16	1.000000
rad1	4.32051e-17	1.000000	1.15753e-16	1.000000
rad26	1.72683e-17	1.000000	4.62643e-17	1.000000
rad3	5.69373e-18	1.000000	1.52543e-17	1.000000
rad4	4.36561e-18	1.000000	1.16961e-17	1.000000
rad24	3.33436e-18	1.000000	8.93325e-18	1.000000
rad33	2.51828e-18	1.000000	6.74684e-18	1.000000
rad22	6.96946e-19	1.000000	1.86722e-18	1.000000
rad25	3.68476e-19	1.000000	9.87200e-19	1.000000
rad12	1.57452e-19	1.000000	4.21838e-19	1.000000
rad14	4.93370e-20	1.000000	1.32181e-19	1.000000
rad15	4.60488e-20	1.000000	1.23372e-19	1.000000
rad27	3.32748e-20	1.000000	8.91479e-20	1.000000
rad8	9.89268e-21	1.000000	2.65039e-20	1.000000
rad31	6.76592e-22	1.000000	1.81269e-21	1.000000
rad47	1.81317e-23	1.000000	4.85774e-23	1.000000
rad5	1.36139e-24	1.000000	3.64735e-24	1.000000

0.100000000E-07 Pa, 1300.00000 K

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Rate constant	True (fraction)	Effective (fraction)		
Total	1.52810e-14 (1.00)	4.76644e-15 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.688080	0.688080	0.00000	0.00000
Indene+H	0.296944	0.985024	0.951986	0.951986
Ph+Allene	0.00550433	0.990528	0.0176466	0.969633
PhCH2CCH+H	0.00336231	0.993891	0.0107794	0.980412

PhCHCCH2+H	0.00286585	0.996756	0.00918775	0.989600
PhCCH+CH3	0.00187197	0.998628	0.00600145	0.995601
Ph+MeAc	0.000252917	0.998881	0.000810838	0.996412
PAH7+H	0.000251839	0.999133	0.000807383	0.997219
PAH9+H	0.000232565	0.999366	0.000745592	0.997965
rad30	0.000187145	0.999553	0.000599977	0.998565
rad38	9.27358e-05	0.999646	0.000297306	0.998862
PhCCCH3+H	8.81977e-05	0.999734	0.000282757	0.999145
rad19anti	7.76866e-05	0.999812	0.000249059	0.999394
rad39	5.27138e-05	0.999864	0.000168998	0.999563
rad35	4.67240e-05	0.999911	0.000149795	0.999713
PAH3+H	4.01931e-05	0.999951	0.000128857	0.999842
rad46	2.01481e-05	0.999971	6.45939e-05	0.999906
rad60syn	7.32140e-06	0.999979	2.34720e-05	0.999930
rad50	5.32215e-06	0.999984	1.70625e-05	0.999947
rad59	4.81766e-06	0.999989	1.54452e-05	0.999962
rad60anti	4.29551e-06	0.999993	1.37712e-05	0.999976
rad19syn	2.96344e-06	0.999996	9.50065e-06	0.999986
rad54	9.75309e-07	0.999997	3.12679e-06	0.999989
rad67	7.44257e-07	0.999998	2.38605e-06	0.999991
PhcycC3H3_A+H	7.41843e-07	0.999999	2.37831e-06	0.999993
rad51	6.46585e-07	0.999999	2.07292e-06	0.999996
rad37	4.66727e-07	1.000000	1.49630e-06	0.999997
rad52	2.99170e-07	1.000000	9.59124e-07	0.999998
PAH10+CH3	1.66594e-07	1.000000	5.34093e-07	0.999999
rad70	1.60097e-07	1.000000	5.13264e-07	0.999999
PAH1+H	1.54574e-07	1.000000	4.95557e-07	1.000000
rad58	1.48959e-07	1.000000	4.77556e-07	1.000000
rad55	5.10750e-08	1.000000	1.63744e-07	1.000000
rad34	2.60671e-08	1.000000	8.35698e-08	1.000000
rad65	2.01508e-08	1.000000	6.46025e-08	1.000000
rad62	1.51327e-08	1.000000	4.85146e-08	1.000000
rad53	3.99906e-09	1.000000	1.28208e-08	1.000000
rad43	2.42224e-09	1.000000	7.76557e-09	1.000000
rad56	2.20471e-09	1.000000	7.06819e-09	1.000000
rad73	1.94724e-09	1.000000	6.24276e-09	1.000000
rad71	1.52459e-09	1.000000	4.88774e-09	1.000000
rad64	1.45722e-09	1.000000	4.67176e-09	1.000000
PAH8+H	4.97086e-10	1.000000	1.59363e-09	1.000000
rad68syn	4.61120e-10	1.000000	1.47833e-09	1.000000
rad42	4.21653e-10	1.000000	1.35180e-09	1.000000
rad68anti	3.05850e-10	1.000000	9.80538e-10	1.000000
rad40syn	9.09556e-11	1.000000	2.91599e-10	1.000000
rad61	6.30316e-11	1.000000	2.02076e-10	1.000000
rad40anti	4.50261e-11	1.000000	1.44351e-10	1.000000
rad41	4.39793e-11	1.000000	1.40995e-10	1.000000
rad72	1.45373e-11	1.000000	4.66058e-11	1.000000
rad6	8.82438e-15	1.000000	2.82905e-14	1.000000
rad23	2.50258e-15	1.000000	8.02314e-15	1.000000
rad45	1.69377e-15	1.000000	5.43015e-15	1.000000
rad11	6.08100e-16	1.000000	1.94954e-15	1.000000
rad7	4.45559e-16	1.000000	1.42844e-15	1.000000
rad20	3.18168e-16	1.000000	1.02003e-15	1.000000
rad21	1.87706e-16	1.000000	6.01774e-16	1.000000
rad9	1.62559e-16	1.000000	5.21157e-16	1.000000
rad36	1.60258e-16	1.000000	5.13778e-16	1.000000
rad13	8.37374e-17	1.000000	2.68458e-16	1.000000
rad18	6.76196e-17	1.000000	2.16785e-16	1.000000
rad2	5.85657e-17	1.000000	1.87758e-16	1.000000
rad28	3.13832e-17	1.000000	1.00613e-16	1.000000
rad10	2.92974e-17	1.000000	9.39260e-17	1.000000
rad1	1.33026e-17	1.000000	4.26474e-17	1.000000
rad26	9.19572e-18	1.000000	2.94810e-17	1.000000
rad22	2.57645e-18	1.000000	8.25998e-18	1.000000
rad24	2.44030e-18	1.000000	7.82347e-18	1.000000
rad3	2.18795e-18	1.000000	7.01445e-18	1.000000
rad4	1.69930e-18	1.000000	5.44787e-18	1.000000
rad33	1.48882e-18	1.000000	4.77307e-18	1.000000
rad25	2.76125e-19	1.000000	8.85244e-19	1.000000
rad15	1.99059e-19	1.000000	6.38173e-19	1.000000
rad12	1.79600e-19	1.000000	5.75787e-19	1.000000
rad14	2.71727e-20	1.000000	8.71141e-20	1.000000
rad8	1.89596e-20	1.000000	6.07834e-20	1.000000
rad27	1.34953e-20	1.000000	4.32651e-20	1.000000
rad31	4.14038e-22	1.000000	1.32738e-21	1.000000
rad47	4.64662e-23	1.000000	1.48968e-22	1.000000
rad5	4.99573e-24	1.000000	1.60160e-23	1.000000

0.100000000E-07 Pa, 1400.00000 K

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Rate constant	True (fraction)		Effective (fraction)	
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Total	2.46691e-14	(1.00)	6.50155e-15	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
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Benzyl+C2H2	0.736450	0.736450	0.000000	0.000000
Indene+H	0.245659	0.982109	0.932117	0.932117
Ph+Allene	0.00660861	0.988718	0.0250754	0.957192
PhCH2CCH+H	0.00478128	0.993499	0.0181419	0.975334
PhCHCCH2+H	0.00325578	0.996755	0.0123536	0.987688
PhCCH+CH3	0.00165084	0.998406	0.00626388	0.993952
PAH9+H	0.000308661	0.998714	0.00117117	0.995123
PAH7+H	0.000272630	0.998987	0.00103445	0.996157
Ph+MeAc	0.000228420	0.999215	0.000866707	0.997024
rad30	0.000217655	0.999433	0.000825859	0.997850
rad38	0.000125529	0.999558	0.000476301	0.998326
rad19anti	0.000116511	0.999675	0.000442085	0.998768
PAH3+H	6.69984e-05	0.999742	0.000254215	0.999023
PhCCCH3+H	6.53819e-05	0.999807	0.000248082	0.999271
rad35	6.07397e-05	0.999868	0.000230468	0.999501
rad39	5.49305e-05	0.999923	0.000208426	0.999710
rad46	2.97185e-05	0.999953	0.000112762	0.999822
rad60syn	1.03332e-05	0.999963	3.92077e-05	0.999862
rad50	9.93210e-06	0.999973	3.76859e-05	0.999899
rad59	7.71556e-06	0.999981	2.92756e-05	0.999928
rad60anti	6.13929e-06	0.999987	2.32946e-05	0.999952
rad19syn	4.26609e-06	0.999991	1.61870e-05	0.999968
rad67	1.57759e-06	0.999993	5.98594e-06	0.999974
rad54	1.46998e-06	0.999994	5.57763e-06	0.999980
rad51	1.43445e-06	0.999996	5.44280e-06	0.999985
PhcycC3H3_A+H	1.26043e-06	0.999997	4.78252e-06	0.999990
rad37	6.13241e-07	0.999997	2.32685e-06	0.999992
rad52	6.09458e-07	0.999998	2.31250e-06	0.999994
PAH10+CH3	3.40070e-07	0.999998	1.29034e-06	0.999996
rad58	3.07503e-07	0.999999	1.16677e-06	0.999997
rad70	2.75599e-07	0.999999	1.04572e-06	0.999998
PAH1+H	2.72543e-07	0.999999	1.03413e-06	0.999999
rad55	8.21114e-08	0.999999	3.11559e-07	0.999999
rad34	4.89123e-08	0.999999	1.85590e-07	0.999999
rad65	4.41608e-08	0.999999	1.67561e-07	1.000000
rad62	2.07591e-08	0.999999	7.87674e-08	1.000000
rad53	8.12265e-09	0.999999	3.08202e-08	1.000000
rad73	6.62662e-09	0.999999	2.51437e-08	1.000000
rad71	5.83659e-09	0.999999	2.21461e-08	1.000000
rad56	5.07502e-09	0.999999	1.92564e-08	1.000000
rad43	3.05585e-09	0.999999	1.15950e-08	1.000000
rad64	2.94785e-09	0.999999	1.11852e-08	1.000000
PAH8+H	1.55760e-09	0.999999	5.91010e-09	1.000000
rad68syn	1.15822e-09	0.999999	4.39468e-09	1.000000
rad68anti	7.65284e-10	0.999999	2.90376e-09	1.000000
rad42	6.99013e-10	0.999999	2.65230e-09	1.000000
rad40syn	2.60577e-10	0.999999	9.88719e-10	1.000000
rad61	1.94739e-10	0.999999	7.38907e-10	1.000000
rad40anti	1.33993e-10	0.999999	5.08417e-10	1.000000
rad41	7.68994e-11	0.999999	2.91783e-10	1.000000
rad72	7.37095e-11	0.999999	2.79680e-10	1.000000
rad6	9.08754e-11	0.999999	3.44813e-11	1.000000
rad23	1.33510e-15	0.999999	5.06585e-15	1.000000
rad45	9.27271e-16	0.999999	3.51839e-15	1.000000
rad11	4.33213e-16	0.999999	1.64376e-15	1.000000
rad7	3.93474e-16	0.999999	1.49298e-15	1.000000
rad20	1.95003e-16	0.999999	7.39910e-16	1.000000
rad9	1.29041e-16	0.999999	4.89628e-16	1.000000
rad21	1.13739e-16	0.999999	4.31567e-16	1.000000
rad36	8.89051e-17	0.999999	3.37337e-16	1.000000
rad18	5.84528e-17	0.999999	2.21791e-16	1.000000
rad13	4.53177e-17	0.999999	1.71951e-16	1.000000
rad28	2.54254e-17	0.999999	9.64731e-17	1.000000
rad2	1.82890e-17	0.999999	6.93949e-17	1.000000
rad10	1.42472e-17	0.999999	5.40590e-17	1.000000
rad22	8.73643e-18	0.999999	3.31491e-17	1.000000
rad26	5.48391e-18	0.999999	2.08079e-17	1.000000
rad1	4.24225e-18	0.999999	1.60966e-17	1.000000
rad24	1.80067e-18	0.999999	6.83237e-18	1.000000
rad3	8.94565e-19	0.999999	3.39430e-18	1.000000
rad33	8.79957e-19	0.999999	3.33887e-18	1.000000
rad4	6.99876e-19	0.999999	2.65558e-18	1.000000
rad15	6.27680e-19	0.999999	2.38164e-18	1.000000
rad12	1.93287e-19	0.999999	7.33399e-19	1.000000

rad25	1.92135e-19	0.999999	7.29027e-19	1.000000
rad8	2.79512e-20	0.999999	1.06057e-19	1.000000
rad14	1.41990e-20	0.999999	5.38760e-20	1.000000
rad27	5.43615e-21	0.999999	2.06266e-20	1.000000
rad31	2.56226e-22	0.999999	9.72211e-22	1.000000
rad47	1.04027e-22	0.999999	3.94715e-22	1.000000
rad5	1.54027e-23	0.999999	5.84433e-23	1.000000

0.100000000E-07 Pa, 1500.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.51560e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.774067	0.774067	0.000000	0.000000
Indene+H	0.205065	0.979132	0.907636	0.907636
Ph+Allene	0.00752036	0.986652	0.0332858	0.940922
PhCH2CCH+H	0.00646723	0.993120	0.0286246	0.969546
PhCHCCH2+H	0.00361205	0.996732	0.0159873	0.985534
PhCCH+CH3	0.00141397	0.998146	0.00625837	0.991792
PAH9+H	0.000393094	0.998539	0.00173987	0.993532
PAH7+H	0.000286546	0.998825	0.00126828	0.994800
rad30	0.000246477	0.999072	0.00109093	0.995891
Ph+MeAc	0.000203626	0.999275	0.000901268	0.996759
rad19anti	0.000164236	0.999440	0.000726923	0.997519
rad38	0.000162728	0.999602	0.000720251	0.998240
PAH3+H	0.000104218	0.999707	0.000461281	0.998701
rad35	7.62565e-05	0.999783	0.000337518	0.999038
rad39	5.58557e-05	0.999839	0.000247223	0.999286
PhCCCH3+H	4.89506e-05	0.999888	0.000216660	0.999502
rad46	4.15217e-05	0.999929	0.000183779	0.999686
rad50	1.70754e-05	0.999946	7.55771e-05	0.999762
rad60syn	1.38815e-05	0.999960	6.14410e-05	0.999823
rad59	1.15663e-05	0.999972	5.11935e-05	0.999874
rad60anti	8.33859e-06	0.999980	3.69074e-05	0.999911
rad19syn	5.68956e-06	0.999986	2.51825e-05	0.999936
rad67	3.01383e-06	0.999989	1.33395e-05	0.999950
rad51	2.86542e-06	0.999992	1.26826e-05	0.999962
rad54	2.03370e-06	0.999994	9.00134e-06	0.999971
PhcycC3H3_A+H	1.94411e-06	0.999996	8.60479e-06	0.999980
rad52	1.12959e-06	0.999997	4.99968e-06	0.999985
rad37	8.38280e-07	0.999997	3.71030e-06	0.999989
PAH10+CH3	6.63376e-07	0.999998	2.93617e-06	0.999992
rad58	5.75067e-07	0.999999	2.54530e-06	0.999994
PAH1+H	4.44629e-07	0.999999	1.96797e-06	0.999996
rad70	4.35873e-07	1.000000	1.92921e-06	0.999998
rad55	1.20222e-07	1.000000	5.32112e-07	0.999999
rad65	8.70999e-08	1.000000	3.85512e-07	0.999999
rad34	8.35876e-08	1.000000	3.69966e-07	0.999999
rad62	2.65880e-08	1.000000	1.17681e-07	0.999999
rad73	1.91029e-08	1.000000	8.45513e-08	1.000000
rad71	1.86182e-08	1.000000	8.24060e-08	1.000000
rad53	1.46409e-08	1.000000	6.48019e-08	1.000000
rad56	1.02046e-08	1.000000	4.51664e-08	1.000000
rad64	5.41559e-09	1.000000	2.39699e-08	1.000000
PAH8+H	4.18063e-09	1.000000	1.85038e-08	1.000000
rad43	3.92947e-09	1.000000	1.73922e-08	1.000000
rad68syn	2.56012e-09	1.000000	1.13313e-08	1.000000
rad68anti	1.68587e-09	1.000000	7.46183e-09	1.000000
rad42	1.06259e-09	1.000000	4.70314e-09	1.000000
rad40syn	6.46765e-10	1.000000	2.86264e-09	1.000000
rad61	5.26863e-10	1.000000	2.33195e-09	1.000000
rad40anti	3.43892e-10	1.000000	1.52210e-09	1.000000
rad72	2.96653e-10	1.000000	1.31301e-09	1.000000
rad41	1.35344e-10	1.000000	5.99046e-10	1.000000
rad6	1.01719e-14	1.000000	4.50219e-14	1.000000
rad23	7.57282e-16	1.000000	3.35180e-15	1.000000
rad45	5.23540e-16	1.000000	2.31724e-15	1.000000
rad11	2.60226e-16	1.000000	1.15178e-15	1.000000
rad7	2.59166e-16	1.000000	1.14709e-15	1.000000
rad20	1.23074e-16	1.000000	5.44737e-16	1.000000
rad9	1.00031e-16	1.000000	4.42748e-16	1.000000
rad21	7.10953e-17	1.000000	3.14675e-16	1.000000
rad36	5.08126e-17	1.000000	2.24901e-16	1.000000
rad18	4.05516e-17	1.000000	1.79485e-16	1.000000
rad28	2.46076e-17	1.000000	1.08915e-16	1.000000
rad13	2.40579e-17	1.000000	1.06483e-16	1.000000
rad22	2.28960e-17	1.000000	1.01340e-16	1.000000

rad2	5.90115e-18	1.00000	2.61190e-17	1.000000
rad10	5.66110e-18	1.00000	2.50565e-17	1.000000
rad26	3.23146e-18	1.00000	1.43027e-17	1.000000
rad1	1.39612e-18	1.00000	6.17934e-18	1.000000
rad24	1.34246e-18	1.00000	5.94185e-18	1.000000
rad15	1.14512e-18	1.00000	5.06840e-18	1.000000
rad33	5.25041e-19	1.00000	2.32388e-18	1.000000
rad3	3.75274e-19	1.00000	1.66100e-18	1.000000
rad4	2.96106e-19	1.00000	1.31059e-18	1.000000
rad12	1.99725e-19	1.00000	8.84000e-19	1.000000
rad25	1.32639e-19	1.00000	5.87071e-19	1.000000
rad8	3.57803e-20	1.00000	1.58367e-19	1.000000
rad14	7.59784e-21	1.00000	3.36288e-20	1.000000
rad27	2.30896e-21	1.00000	1.02197e-20	1.000000
rad47	2.08549e-22	1.00000	9.23059e-22	1.000000
rad31	1.60839e-22	1.00000	7.11887e-22	1.000000
rad5	3.57735e-23	1.00000	1.58337e-22	1.000000

0.100000000E-07 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	1.49145e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837640	0.837640	0.000000	0.000000
Indene+H	0.133064	0.970704	0.819559	0.819559
PhCH2CCH+H	0.0118056	0.982510	0.0727127	0.892272
Ph+Allene	0.00950091	0.992011	0.0585175	0.950789
PhCHCCH2+H	0.00446803	0.996479	0.0275192	0.978308
PhCCH+CH3	0.000861597	0.997340	0.00530671	0.983615
PAH9+H	0.000556652	0.997897	0.00342850	0.987044
rad30	0.000325000	0.998222	0.00200173	0.989045
rad19anti	0.000321503	0.998543	0.00198018	0.991026
rad38	0.000287109	0.998830	0.00176835	0.992794
PAH7+H	0.000286344	0.999117	0.00176363	0.994557
PAH3+H	0.000275290	0.999392	0.00169559	0.996253
Ph+MeAc	0.000167695	0.999560	0.00103286	0.997286
rad35	0.000110066	0.999670	0.000677915	0.997964
rad46	7.52920e-05	0.999745	0.000463735	0.998428
rad39	5.82425e-05	0.999803	0.000358724	0.998786
rad50	4.36581e-05	0.999847	0.000268897	0.999055
PhCCCH3+H	3.20470e-05	0.999879	0.000197382	0.999253
rad59	2.75338e-05	0.999907	0.000169584	0.999422
rad60syn	2.64498e-05	0.999933	0.000162908	0.999585
rad60anti	1.77452e-05	0.999951	0.000109295	0.999694
rad51	1.06304e-05	0.999961	6.54744e-05	0.999760
rad67	1.00266e-05	0.999971	6.17554e-05	0.999822
rad19syn	8.12817e-06	0.999980	5.00626e-05	0.999872
PhcycC3H3_A+H	4.32964e-06	0.999984	2.66669e-05	0.999898
rad52	3.62585e-06	0.999988	2.23321e-05	0.999921
rad54	3.10468e-06	0.999991	1.91222e-05	0.999940
PAH10+CH3	2.60306e-06	0.999993	1.60326e-05	0.999956
rad58	2.01823e-06	0.999995	1.24306e-05	0.999968
rad37	1.70772e-06	0.999997	1.05181e-05	0.999979
PAH1+H	1.10635e-06	0.999998	6.81419e-06	0.999986
rad70	1.04847e-06	0.999999	6.45765e-06	0.999992
rad65	3.08348e-07	0.999999	1.89916e-06	0.999994
rad34	2.42002e-07	1.000000	1.49052e-06	0.999995
rad55	2.29000e-07	1.000000	1.41044e-06	0.999997
rad71	1.90753e-07	1.000000	1.17488e-06	0.999998
rad73	1.56380e-07	1.000000	9.63167e-07	0.999999
rad53	4.44390e-08	1.000000	2.73707e-07	0.999999
rad62	4.00911e-08	1.000000	2.46927e-07	1.000000
rad56	3.57943e-08	1.000000	2.20463e-07	1.000000
PAH8+H	2.43959e-08	1.000000	1.50258e-07	1.000000
rad64	1.92943e-08	1.000000	1.18836e-07	1.000000
rad68syn	1.20123e-08	1.000000	7.39857e-08	1.000000
rad43	8.60713e-09	1.000000	5.30126e-08	1.000000
rad68anti	7.79056e-09	1.000000	4.79832e-08	1.000000
rad72	5.35919e-09	1.000000	3.30080e-08	1.000000
rad40syn	3.52157e-09	1.000000	2.16899e-08	1.000000
rad61	3.50342e-09	1.000000	2.15781e-08	1.000000
rad42	2.39318e-09	1.000000	1.47399e-08	1.000000
rad40anti	2.09783e-09	1.000000	1.29208e-08	1.000000
rad41	5.64325e-10	1.000000	3.47576e-09	1.000000
rad6	7.45196e-15	1.000000	4.58977e-14	1.000000
rad23	3.13672e-16	1.000000	1.93195e-15	1.000000
rad22	5.56059e-17	1.000000	3.42485e-16	1.000000

rad45	5.00861e-17	1.00000	3.08487e-16	1.00000
rad7	2.69993e-17	1.00000	1.66293e-16	1.00000
rad11	2.49379e-17	1.00000	1.53596e-16	1.00000
rad28	1.72227e-17	1.00000	1.06077e-16	1.00000
rad9	1.33096e-17	1.00000	8.19757e-17	1.00000
rad20	1.26283e-17	1.00000	7.77797e-17	1.00000
rad36	8.51233e-18	1.00000	5.24287e-17	1.00000
rad21	6.65178e-18	1.00000	4.09693e-17	1.00000
rad18	5.81036e-18	1.00000	3.57869e-17	1.00000
rad13	1.40331e-18	1.00000	8.64322e-18	1.00000
rad15	6.72938e-19	1.00000	4.14472e-18	1.00000
rad26	4.54689e-19	1.00000	2.80049e-18	1.00000
rad10	2.37613e-19	1.00000	1.46349e-18	1.00000
rad24	1.70134e-19	1.00000	1.04788e-18	1.00000
rad2	1.03136e-19	1.00000	6.35229e-19	1.00000
rad12	4.26945e-20	1.00000	2.62962e-19	1.00000
rad33	3.32918e-20	1.00000	2.05049e-19	1.00000
rad1	2.62290e-20	1.00000	1.61548e-19	1.00000
rad8	1.74118e-20	1.00000	1.07242e-19	1.00000
rad25	1.29129e-20	1.00000	7.95327e-20	1.00000
rad3	8.45284e-21	1.00000	5.20623e-20	1.00000
rad4	5.36622e-21	1.00000	3.30513e-20	1.00000
rad14	5.21560e-22	1.00000	3.21236e-21	1.00000
rad47	2.44663e-22	1.00000	1.50692e-21	1.00000
rad5	1.25548e-22	1.00000	7.73268e-22	1.00000
rad27	9.07042e-23	1.00000	5.58660e-22	1.00000

0.100000000E-07 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.47588e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866428	0.866428	0.00000	0.00000
Indene+H	0.0943885	0.960816	0.706650	0.706650
PhCH2CCH+H	0.0189358	0.979752	0.141765	0.848415
Ph+Allene	0.0101088	0.989861	0.0756807	0.924096
PhCHCCH2+H	0.00579099	0.995652	0.0433549	0.967451
PAH9+H	0.000765251	0.996417	0.00572913	0.973180
PhCCH+CH3	0.000550354	0.996968	0.00412028	0.977300
PAH3+H	0.000526246	0.997494	0.00393980	0.981240
rad19anti	0.000486607	0.997981	0.00364303	0.984883
rad38	0.000411538	0.998392	0.00308103	0.987964
rad30	0.000378289	0.998770	0.00283210	0.990796
PAH7+H	0.000350388	0.999121	0.00262322	0.993419
Ph+MeAc	0.000164748	0.999286	0.00123340	0.994653
rad35	0.000155515	0.999441	0.00116428	0.995817
rad46	0.000120109	0.999561	0.000899212	0.996716
rad50	9.58270e-05	0.999657	0.000717420	0.997434
rad39	7.87039e-05	0.999736	0.000589225	0.998023
rad59	4.92026e-05	0.999785	0.000368361	0.998391
rad60syn	4.01110e-05	0.999825	0.000300295	0.998691
PhCCH3+H	3.61306e-05	0.999861	0.000270495	0.998962
rad51	2.92772e-05	0.999890	0.000219187	0.999181
rad60anti	2.75040e-05	0.999918	0.000205912	0.999387
rad67	2.43946e-05	0.999942	0.000182633	0.999570
rad19syn	1.17085e-05	0.999954	8.76566e-05	0.999657
rad52	8.84586e-06	0.999963	6.62255e-05	0.999723
PAH10+CH3	7.72771e-06	0.999971	5.78543e-05	0.999781
PhcycC3H3_A+H	7.44556e-06	0.999978	5.57420e-05	0.999837
rad58	5.03691e-06	0.999983	3.77093e-05	0.999875
rad54	4.34710e-06	0.999987	3.25450e-05	0.999907
rad37	3.43690e-06	0.999991	2.57307e-05	0.999933
PAH1+H	2.74924e-06	0.999994	2.05825e-05	0.999954
rad70	2.09354e-06	0.999996	1.56735e-05	0.999969
rad71	1.06961e-06	0.999997	8.00777e-06	0.999977
rad65	8.19688e-07	0.999998	6.13669e-06	0.999983
rad73	7.43910e-07	0.999998	5.56936e-06	0.999989
rad34	5.52321e-07	0.999999	4.13501e-06	0.999993
rad55	3.53324e-07	0.999999	2.64520e-06	0.999996
PAH8+H	1.14510e-07	0.999999	8.57294e-07	0.999997
rad53	9.72438e-08	0.999999	7.28027e-07	0.999997
rad56	9.21215e-08	1.000000	6.89678e-07	0.999998
rad62	6.00485e-08	1.000000	4.49560e-07	0.999999
rad64	5.57952e-08	1.000000	4.17717e-07	0.999999
rad72	4.29765e-08	1.000000	3.21748e-07	0.999999
rad68syn	4.11172e-08	1.000000	3.07828e-07	1.000000
rad68anti	2.65281e-08	1.000000	1.98605e-07	1.000000

rad43	2.20258e-08	1.000000	1.64898e-07	1.000000
rad61	1.54174e-08	1.000000	1.15424e-07	1.00000
rad40syn	1.44056e-08	1.000000	1.07849e-07	1.00000
rad40anti	9.08224e-09	1.000000	6.79952e-08	1.00000
rad42	4.93493e-09	1.000000	3.69459e-08	1.00000
rad41	1.99345e-09	1.000000	1.49241e-08	1.00000
rad6	9.66907e-16	1.000000	7.23885e-15	1.00000
rad23	1.70461e-16	1.000000	1.27617e-15	1.00000
rad45	1.66156e-17	1.000000	1.24394e-16	1.00000
rad22	1.52678e-17	1.000000	1.14304e-16	1.00000
rad9	6.76997e-18	1.000000	5.06841e-17	1.00000
rad11	5.37252e-18	1.000000	4.02220e-17	1.00000
rad20	5.29552e-18	1.000000	3.96455e-17	1.00000
rad7	4.21431e-18	1.000000	3.15509e-17	1.00000
rad28	3.28588e-18	1.000000	2.46001e-17	1.00000
rad36	2.90787e-18	1.000000	2.17701e-17	1.00000
rad21	2.72287e-18	1.000000	2.03851e-17	1.00000
rad18	1.62503e-18	1.000000	1.21659e-17	1.00000
rad15	3.62729e-19	1.000000	2.71561e-18	1.00000
rad13	3.15020e-19	1.000000	2.35843e-18	1.00000
rad24	9.49359e-20	1.000000	7.10748e-19	1.00000
rad26	6.44768e-20	1.000000	4.82713e-19	1.00000
rad12	3.72963e-20	1.000000	2.79223e-19	1.00000
rad10	2.39921e-20	1.000000	1.79619e-19	1.00000
rad8	2.00223e-20	1.000000	1.49899e-19	1.00000
rad33	1.02784e-20	1.000000	7.69507e-20	1.00000
rad2	9.59654e-21	1.000000	7.18455e-20	1.00000
rad25	5.51560e-21	1.000000	4.12931e-20	1.00000
rad1	2.58244e-21	1.000000	1.93337e-20	1.00000
rad3	1.45930e-21	1.000000	1.09252e-20	1.00000
rad4	9.33309e-22	1.000000	6.98732e-21	1.00000
rad47	6.72667e-22	1.000000	5.03600e-21	1.00000
rad5	1.86942e-22	1.000000	1.39956e-21	1.00000
rad14	1.43912e-22	1.000000	1.07741e-21	1.00000
rad27	2.36914e-23	1.000000	1.77368e-22	1.00000

0.100000000E-07 Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	4.00875e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.878204	0.878204	0.00000	0.00000
Indene+H	0.0703003	0.948504	0.577195	0.577195
PhCH2CCH+H	0.0277459	0.976250	0.227806	0.805001
Ph+Allene	0.0105974	0.986848	0.0870088	0.892010
PhCHCCH2+H	0.00765656	0.994504	0.0628636	0.954873
PAH9+H	0.000941856	0.995446	0.00773304	0.962606
PAH3+H	0.000857236	0.996303	0.00703827	0.969645
rad19anti	0.000629228	0.996932	0.00516623	0.974811
rad38	0.000525523	0.997458	0.00431476	0.979126
PAH7+H	0.000454502	0.997913	0.00373165	0.982857
rad30	0.000417263	0.998330	0.00342591	0.986283
PhCCH+CH3	0.000383697	0.998713	0.00315031	0.989434
rad35	0.000200865	0.998914	0.00164918	0.991083
Ph+MeAc	0.000197882	0.999112	0.00162470	0.992707
rad50	0.000170940	0.999283	0.00140349	0.994111
rad46	0.000166540	0.999450	0.00136737	0.995478
rad39	0.000118806	0.999568	0.000975445	0.996454
rad59	7.57691e-05	0.999644	0.000622096	0.997076
rad51	6.22686e-05	0.999707	0.000511251	0.997587
rad60syn	5.44510e-05	0.999761	0.000447066	0.998034
PhCCCH3+H	5.15901e-05	0.999813	0.000423577	0.998458
rad67	4.61782e-05	0.999859	0.000379142	0.998837
rad60anti	3.79865e-05	0.999897	0.000311885	0.999149
PAH10+CH3	1.71933e-05	0.999914	0.000141164	0.999290
rad52	1.70844e-05	0.999931	0.000140270	0.999430
rad19syn	1.63932e-05	0.999947	0.000134595	0.999565
PhcycC3H3_A+H	1.10275e-05	0.999958	9.05407e-05	0.999655
rad58	1.00660e-05	0.999969	8.26458e-05	0.999738
PAH1+H	5.96728e-06	0.999974	4.89939e-05	0.999787
rad37	5.72356e-06	0.999980	4.69928e-05	0.999834
rad54	5.39698e-06	0.999986	4.43115e-05	0.999878
rad71	3.95691e-06	0.999990	3.24879e-05	0.999911
rad70	3.69403e-06	0.999993	3.03296e-05	0.999941
rad73	2.41459e-06	0.999996	1.98248e-05	0.999961
rad65	1.68525e-06	0.999997	1.38367e-05	0.999975
rad34	1.08371e-06	0.999998	8.89771e-06	0.999984

rad55	4.74067e-07	0.999999	3.89229e-06	0.999988
PAH8+H	3.91946e-07	0.999999	3.21804e-06	0.999991
rad72	2.09318e-07	1.000000	1.71859e-06	0.999992
rad56	1.86168e-07	1.000000	1.52852e-06	0.999994
rad53	1.73183e-07	1.000000	1.42191e-06	0.999995
rad64	1.33616e-07	1.000000	1.09704e-06	0.999997
rad68syn	1.10265e-07	1.000000	9.05322e-07	0.999997
rad62	9.48259e-08	1.000000	7.78561e-07	0.999998
rad68anti	7.08807e-08	1.000000	5.81961e-07	0.999999
rad43	4.82400e-08	1.000000	3.96071e-07	0.999999
rad61	4.62524e-08	1.000000	3.79752e-07	1.000000
rad40syn	4.43238e-08	1.000000	3.63917e-07	1.000000
rad40anti	2.91751e-08	1.000000	2.39540e-07	1.000000
rad42	1.00367e-08	1.000000	8.24055e-08	1.000000
rad41	5.35211e-09	1.000000	4.39431e-08	1.000000
rad6	1.23551e-16	1.000000	1.01441e-15	1.000000
rad23	4.71182e-17	1.000000	3.86861e-16	1.000000
rad45	6.43582e-18	1.000000	5.28408e-17	1.000000
rad22	3.96239e-18	1.000000	3.25329e-17	1.000000
rad9	3.51557e-18	1.000000	2.88643e-17	1.000000
rad20	2.60557e-18	1.000000	2.13928e-17	1.000000
rad11	1.62855e-18	1.000000	1.33711e-17	1.000000
rad21	1.30011e-18	1.000000	1.06745e-17	1.000000
rad36	1.15193e-18	1.000000	9.45782e-18	1.000000
rad7	9.44076e-19	1.000000	7.75126e-18	1.000000
rad18	6.17423e-19	1.000000	5.06931e-18	1.000000
rad28	5.07618e-19	1.000000	4.16776e-18	1.000000
rad15	2.10987e-19	1.000000	1.73229e-18	1.000000
rad13	8.56525e-20	1.000000	7.03244e-19	1.000000
rad24	5.70002e-20	1.000000	4.67996e-19	1.000000
rad12	3.05351e-20	1.000000	2.50707e-19	1.000000
rad26	2.24970e-20	1.000000	1.84710e-19	1.000000
rad8	2.16858e-20	1.000000	1.78050e-19	1.000000
rad10	7.19717e-21	1.000000	5.90918e-20	1.000000
rad33	3.63727e-21	1.000000	2.98636e-20	1.000000
rad25	2.84538e-21	1.000000	2.33618e-20	1.000000
rad2	1.45518e-21	1.000000	1.19476e-20	1.000000
rad47	1.41374e-21	1.000000	1.16074e-20	1.000000
rad1	4.30616e-22	1.000000	3.53554e-21	1.000000
rad3	3.17691e-22	1.000000	2.60838e-21	1.000000
rad5	2.08606e-22	1.000000	1.71275e-21	1.000000
rad4	2.02506e-22	1.000000	1.66266e-21	1.000000
rad14	5.33284e-23	1.000000	4.37849e-22	1.000000
rad27	1.32553e-23	1.000000	1.08832e-22	1.000000

0.100000000E-07 Pa, 2500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.32896e-13 (1.00)	6.40311e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.879843	0.879843	0.00000	0.00000
Indene+H	0.0541638	0.934007	0.450777	0.450777
PhCH2CCH+H	0.0379681	0.971975	0.315989	0.766766
Ph+Allene	0.0112444	0.983219	0.0935810	0.860347
PhCHCCH2+H	0.00999485	0.993214	0.0831818	0.943529
PAH3+H	0.00124356	0.994458	0.0103495	0.953878
PAH9+H	0.00106545	0.995523	0.00886715	0.962745
rad19anti	0.000731028	0.996254	0.00608396	0.968829
rad38	0.000614393	0.996869	0.00511327	0.973943
PAH7+H	0.000586817	0.997455	0.00488376	0.978826
rad30	0.000442203	0.997898	0.00368022	0.982507
PhCCH+CH3	0.000309130	0.998207	0.00257273	0.985079
rad50	0.000261677	0.998468	0.00217780	0.987257
Ph+MeAc	0.000256973	0.998725	0.00213865	0.989396
rad35	0.000242192	0.998968	0.00201564	0.991411
rad46	0.000207878	0.999175	0.00173006	0.993142
rad39	0.000175772	0.999351	0.00146285	0.994604
rad51	0.000109649	0.999461	0.000912547	0.995517
rad59	0.000104825	0.999566	0.000872406	0.996389
rad67	7.34547e-05	0.999639	0.000611325	0.997001
PhCCCH3+H	7.22810e-05	0.999711	0.000601557	0.997602
rad60syn	6.81857e-05	0.999780	0.000567474	0.998170
rad60anti	4.82378e-05	0.999828	0.000401457	0.998571
PAH10+CH3	3.08998e-05	0.999859	0.000257163	0.998828
rad52	2.78077e-05	0.999887	0.000231429	0.999060
rad19syn	2.34810e-05	0.999910	0.000195420	0.999255
rad58	1.71635e-05	0.999927	0.000142842	0.999398

PhcycC3H3_A+H	1.49440e-05	0.999942	0.000124371	0.999522
PAH1+H	1.13017e-05	0.999953	9.40581e-05	0.999616
rad71	1.08628e-05	0.999964	9.04053e-05	0.999707
rad37	8.12868e-06	0.999972	6.76507e-05	0.999774
rad54	6.28002e-06	0.999979	5.22652e-05	0.999827
rad70	5.97099e-06	0.999985	4.96933e-05	0.999876
rad73	5.95726e-06	0.999991	4.95791e-05	0.999926
rad65	2.87595e-06	0.999994	2.39350e-05	0.999950
rad34	1.90624e-06	0.999995	1.58647e-05	0.999966
PAH8+H	1.06524e-06	0.999997	8.86540e-06	0.999975
rad72	7.14903e-07	0.999997	5.94976e-06	0.999981
rad55	5.87553e-07	0.999998	4.88989e-06	0.999986
rad56	3.21872e-07	0.999998	2.67877e-06	0.999988
rad64	2.70855e-07	0.999998	2.25419e-06	0.999990
rad53	2.70820e-07	0.999999	2.25389e-06	0.999993
rad68syn	2.47504e-07	0.999999	2.05985e-06	0.999995
rad68anti	1.58683e-07	0.999999	1.32064e-06	0.999996
rad62	1.55148e-07	0.999999	1.29122e-06	0.999997
rad40syn	1.10734e-07	0.999999	9.21579e-07	0.999998
rad61	1.05680e-07	0.999999	8.79519e-07	0.999999
rad43	8.79692e-08	1.000000	7.32121e-07	1.000000
rad40anti	7.53435e-08	1.000000	6.27044e-07	1.000000
rad42	1.97239e-08	1.000000	1.64152e-07	1.000000
rad41	1.13877e-08	1.000000	9.47734e-08	1.000000
rad6	2.24292e-17	1.000000	1.86666e-16	1.000000
rad23	1.44709e-17	1.000000	1.20433e-16	1.000000
rad45	2.79514e-18	1.000000	2.32625e-17	1.000000
rad9	1.86929e-18	1.000000	1.55571e-17	1.000000
rad20	1.43940e-18	1.000000	1.19794e-17	1.000000
rad22	1.35197e-18	1.000000	1.12517e-17	1.000000
rad21	6.94971e-19	1.000000	5.78387e-18	1.000000
rad11	6.25789e-19	1.000000	5.20811e-18	1.000000
rad36	5.10358e-19	1.000000	4.24744e-18	1.000000
rad18	2.77736e-19	1.000000	2.31145e-18	1.000000
rad7	2.64623e-19	1.000000	2.20231e-18	1.000000
rad15	1.25424e-19	1.000000	1.04384e-18	1.000000
rad28	1.20784e-19	1.000000	1.00522e-18	1.000000
rad24	3.60418e-20	1.000000	2.99957e-19	1.000000
rad13	2.74546e-20	1.000000	2.28490e-19	1.000000
rad12	2.40046e-20	1.000000	1.99778e-19	1.000000
rad8	2.25267e-20	1.000000	1.87478e-19	1.000000
rad26	1.24982e-20	1.000000	1.04016e-19	1.000000
rad10	4.03027e-21	1.000000	3.35418e-20	1.000000
rad47	2.44566e-21	1.000000	2.03539e-20	1.000000
rad25	1.71221e-21	1.000000	1.42498e-20	1.000000
rad33	1.46760e-21	1.000000	1.22141e-20	1.000000
rad2	4.48822e-22	1.000000	3.73531e-21	1.000000
rad5	2.16419e-22	1.000000	1.80114e-21	1.000000
rad1	1.53605e-22	1.000000	1.27837e-21	1.000000
rad3	8.66759e-23	1.000000	7.21357e-22	1.000000
rad4	5.44455e-23	1.000000	4.53121e-22	1.000000
rad14	2.68051e-23	1.000000	2.23085e-22	1.000000
rad27	1.07389e-23	1.000000	8.93744e-23	1.000000

0.100000000E-07 Pa, 2750.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	8.05113e-13 (1.00)		1.00487e-13 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.875189	0.875189	0.00000	0.00000
PhCH2CCH+H	0.0492371	0.924426	0.394492	0.394492
Indene+H	0.0427171	0.967143	0.342254	0.736746
PhCHCCH2+H	0.0126523	0.979795	0.101371	0.838117
Ph+Allene	0.0121360	0.991931	0.0972347	0.935352
PAH3+H	0.00165412	0.993586	0.0132530	0.948605
PAH9+H	0.00112924	0.994715	0.00904761	0.957652
rad19anti	0.000790044	0.995505	0.00632991	0.963982
PAH7+H	0.000729333	0.996234	0.00584349	0.969826
rad38	0.000670521	0.996905	0.00537228	0.975198
rad30	0.000454283	0.997359	0.00363976	0.978838
rad50	0.000356822	0.997716	0.00285889	0.981697
Ph+MeAc	0.000331297	0.998047	0.00265438	0.984351
PhCCH+CH3	0.000293338	0.998340	0.00235025	0.986701
rad35	0.000276886	0.998617	0.00221844	0.988920
rad39	0.000242689	0.998860	0.00194445	0.990864
rad46	0.000239377	0.999099	0.00191791	0.992782
rad51	0.000167552	0.999267	0.00134245	0.994125

rad59	0.000133898	0.999401	0.00107280	0.995197
rad67	0.000103303	0.999504	0.000827674	0.996025
PhCCCH3+H	9.47597e-05	0.999599	0.000759224	0.996784
rad60syn	8.03400e-05	0.999679	0.000643692	0.997428
rad60anti	5.74980e-05	0.999737	0.000460680	0.997889
PAH10+CH3	4.75540e-05	0.999784	0.000381007	0.998270
rad52	3.97965e-05	0.999824	0.000318854	0.998588
rad19syn	3.43481e-05	0.999858	0.000275200	0.998864
rad58	2.60271e-05	0.999885	0.000208532	0.999072
rad71	2.39120e-05	0.999908	0.000191585	0.999264
PhcycC3H3_A+H	1.91124e-05	0.999928	0.000153131	0.999417
PAH1+H	1.89313e-05	0.999946	0.000151679	0.999569
rad73	1.19963e-05	0.999958	9.61159e-05	0.999665
rad37	1.02458e-05	0.999969	8.20902e-05	0.999747
rad70	8.97456e-06	0.999978	7.19051e-05	0.999819
rad54	7.04852e-06	0.999985	5.64734e-05	0.999875
rad65	4.27356e-06	0.999989	3.42402e-05	0.999909
rad34	3.06724e-06	0.999992	2.45750e-05	0.999934
PAH8+H	2.42508e-06	0.999995	1.94299e-05	0.999953
rad72	1.88022e-06	0.999996	1.50645e-05	0.999968
rad55	6.94535e-07	0.999997	5.56468e-06	0.999974
rad56	5.00306e-07	0.999998	4.00850e-06	0.999978
rad68syn	4.83458e-07	0.999998	3.87351e-06	0.999982
rad64	4.76899e-07	0.999999	3.82096e-06	0.999986
rad53	3.88200e-07	0.999999	3.11030e-06	0.999989
rad68anti	3.09361e-07	0.999999	2.47863e-06	0.999991
rad62	2.47711e-07	0.999999	1.98468e-06	0.999993
rad40syn	2.35491e-07	1.000000	1.88678e-06	0.999995
rad61	1.98411e-07	1.000000	1.58969e-06	0.999997
rad40anti	1.64464e-07	1.000000	1.31770e-06	0.999998
rad43	1.38326e-07	1.000000	1.10828e-06	0.999999
rad42	3.59374e-08	1.000000	2.87934e-07	1.000000
rad41	2.03340e-08	1.000000	1.62918e-07	1.000000
rad23	5.30879e-18	1.000000	4.25346e-17	1.000000
rad6	5.28864e-18	1.000000	4.23731e-17	1.000000
rad45	1.32784e-18	1.000000	1.06388e-17	1.000000
rad9	1.02201e-18	1.000000	8.18840e-18	1.000000
rad20	6.68783e-19	1.000000	6.96077e-18	1.000000
rad22	5.53887e-19	1.000000	4.43779e-18	1.000000
rad21	4.05053e-19	1.000000	3.24532e-18	1.000000
rad11	2.91948e-19	1.000000	2.33912e-18	1.000000
rad36	2.46584e-19	1.000000	1.97566e-18	1.000000
rad18	1.40097e-19	1.000000	1.12247e-18	1.000000
rad7	8.87312e-20	1.000000	7.10923e-19	1.000000
rad15	7.56443e-20	1.000000	6.06070e-19	1.000000
rad28	4.35931e-20	1.000000	3.49272e-19	1.000000
rad24	2.36701e-20	1.000000	1.89647e-19	1.000000
rad8	2.27048e-20	1.000000	1.81913e-19	1.000000
rad12	1.84640e-20	1.000000	1.47935e-19	1.000000
rad13	1.02991e-20	1.000000	8.25175e-20	1.000000
rad26	7.74804e-21	1.000000	6.20781e-20	1.000000
rad47	3.65965e-21	1.000000	2.93215e-20	1.000000
rad10	2.66170e-21	1.000000	2.13258e-20	1.000000
rad25	1.16293e-21	1.000000	9.31748e-21	1.000000
rad33	6.71473e-22	1.000000	5.37991e-21	1.000000
rad2	2.31086e-22	1.000000	1.85148e-21	1.000000
rad5	2.15478e-22	1.000000	1.72643e-21	1.000000
rad1	9.05097e-23	1.000000	7.25172e-22	1.000000
rad3	2.97035e-23	1.000000	2.37987e-22	1.000000
rad4	1.81557e-23	1.000000	1.45465e-22	1.000000
rad14	1.77541e-23	1.000000	1.42248e-22	1.000000
rad27	9.32033e-24	1.000000	7.46754e-23	1.000000

0.100000000E-07 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15309e-12 (1.00)	1.53862e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866566	0.866566	0.00000	0.00000
PhCH2CCH+H	0.0611725	0.927738	0.458447	0.458447
Indene+H	0.0342672	0.962006	0.256810	0.715257
PhCHCCH2+H	0.0154790	0.977485	0.116005	0.831262
Ph+Allene	0.0132660	0.990751	0.0994201	0.930682
PAH3+H	0.00205938	0.992810	0.0154337	0.946116
PAH9+H	0.00113813	0.993948	0.00852950	0.954645
PAH7+H	0.000866135	0.994814	0.00649110	0.961136
rad19anti	0.000812999	0.995627	0.00609288	0.967229

rad38	0.000693215	0.996321	0.00519518	0.972424
rad30	0.000455427	0.996776	0.00341312	0.975838
rad50	0.000445147	0.997221	0.00333608	0.979174
Ph+MeAc	0.000411378	0.997633	0.00308300	0.982257
PhCCH+CH3	0.000319072	0.997952	0.00239123	0.984648
rad39	0.000311351	0.998263	0.00233337	0.986981
rad35	0.000303822	0.998567	0.00227694	0.989258
rad46	0.000258929	0.998826	0.00194050	0.991199
rad51	0.000229661	0.999055	0.00172116	0.992920
rad59	0.000160966	0.999216	0.00120633	0.994126
rad67	0.000132859	0.999349	0.000995686	0.995122
PhCCCH3+H	0.000117527	0.999467	0.000880786	0.996003
rad60syn	9.03378e-05	0.999557	0.000677021	0.996680
PAH10+CH3	6.53522e-05	0.999622	0.000489771	0.997169
rad60anti	6.52879e-05	0.999688	0.000489289	0.997659
rad52	5.15998e-05	0.999739	0.000386706	0.998045
rad19syn	5.01057e-05	0.999789	0.000375508	0.998421
rad71	4.45158e-05	0.999834	0.000333616	0.998755
rad58	3.61220e-05	0.999870	0.000270710	0.999025
PAH1+H	2.86271e-05	0.999899	0.000214541	0.999240
PhcycC3H3_A+H	2.34369e-05	0.999922	0.000175644	0.999415
rad73	2.07080e-05	0.999943	0.000155192	0.999571
rad70	1.26564e-05	0.999955	9.48509e-05	0.999666
rad37	1.18404e-05	0.999967	8.87361e-05	0.999754
rad54	7.74183e-06	0.999975	5.80198e-05	0.999812
rad65	5.71876e-06	0.999981	4.28583e-05	0.999855
PAH8+H	4.80152e-06	0.999986	3.59842e-05	0.999891
rad34	4.57469e-06	0.999990	3.42843e-05	0.999925
rad72	4.05904e-06	0.999994	3.04198e-05	0.999956
rad68syn	8.44302e-07	0.999995	6.32747e-06	0.999962
rad55	7.96394e-07	0.999996	5.96844e-06	0.999968
rad64	7.49015e-07	0.999997	5.61336e-06	0.999974
rad56	7.20451e-07	0.999997	5.39929e-06	0.999979
rad68anti	5.39463e-07	0.999998	4.04291e-06	0.999983
rad53	5.23143e-07	0.999998	3.92061e-06	0.999987
rad40syn	4.40707e-07	0.999999	3.30280e-06	0.999990
rad62	3.72784e-07	0.999999	2.79376e-06	0.999993
rad61	3.22478e-07	0.999999	2.41676e-06	0.999996
rad40anti	3.14359e-07	1.000000	2.35591e-06	0.999998
rad43	1.94896e-07	1.000000	1.46061e-06	0.999999
rad42	5.98145e-08	1.000000	4.48269e-07	1.000000
rad41	3.19484e-08	1.000000	2.39432e-07	1.000000
rad23	2.18831e-18	1.000000	1.63999e-17	1.000000
rad6	1.52770e-18	1.000000	1.14491e-17	1.000000
rad45	6.76395e-19	1.000000	5.06912e-18	1.000000
rad9	5.76618e-19	1.000000	4.32136e-18	1.000000
rad20	5.61879e-19	1.000000	4.21090e-18	1.000000
rad22	2.56754e-19	1.000000	1.92420e-18	1.000000
rad21	2.52565e-19	1.000000	1.89281e-18	1.000000
rad11	1.59312e-19	1.000000	1.19394e-18	1.000000
rad36	1.27347e-19	1.000000	9.54383e-19	1.000000
rad18	7.69597e-20	1.000000	5.76761e-19	1.000000
rad15	4.64693e-20	1.000000	3.48256e-19	1.000000
rad7	3.48722e-20	1.000000	2.61344e-19	1.000000
rad8	2.23533e-20	1.000000	1.67523e-19	1.000000
rad28	2.05573e-20	1.000000	1.54063e-19	1.000000
rad24	1.60028e-20	1.000000	1.19931e-19	1.000000
rad12	1.40784e-20	1.000000	1.05508e-19	1.000000
rad26	4.93141e-21	1.000000	3.69576e-20	1.000000
rad47	4.90428e-21	1.000000	3.67543e-20	1.000000
rad13	4.47285e-21	1.000000	3.35210e-20	1.000000
rad10	1.80858e-21	1.000000	1.35541e-20	1.000000
rad25	8.60189e-22	1.000000	6.44654e-21	1.000000
rad33	3.44368e-22	1.000000	2.58081e-21	1.000000
rad5	2.09153e-22	1.000000	1.56746e-21	1.000000
rad2	1.41788e-22	1.000000	1.06260e-21	1.000000
rad1	6.29354e-23	1.000000	4.71659e-22	1.000000
rad14	1.40237e-23	1.000000	1.05098e-22	1.000000
rad3	1.22193e-23	1.000000	9.15754e-23	1.000000
rad27	8.01836e-24	1.000000	6.00923e-23	1.000000
rad4	7.25388e-24	1.000000	5.43629e-23	1.000000

0.100000000E-07 Pa, 3250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.58309e-12 (1.00)	2.28795e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul

Benzy1+C2H2	0.855476	0.855476	0.00000	0.00000
PhCH2CCH+H	0.0734301	0.928906	0.508082	0.508082
Indene+H	0.0278643	0.956770	0.192800	0.700882
PhCHCCH2+H	0.0183610	0.975131	0.127045	0.827927
Ph+Allene	0.0145940	0.989725	0.100980	0.928907
PAH3+H	0.00243645	0.992162	0.0168585	0.945765
PAH9+H	0.00110339	0.993265	0.00763468	0.953400
PAH7+H	0.000986571	0.994252	0.00682634	0.960227
rad19anti	0.000808911	0.995061	0.00559707	0.965824
rad38	0.000686670	0.995747	0.00475125	0.970575
rad50	0.000518179	0.996266	0.00358542	0.974160
Ph+MeAc	0.000489465	0.996755	0.00338674	0.977547
rad30	0.000447972	0.997203	0.00309964	0.980647
PhCCH+CH3	0.000378211	0.997581	0.00261694	0.983264
rad39	0.000374434	0.997956	0.00259081	0.985854
rad35	0.000323023	0.998279	0.00223508	0.988089
rad51	0.000289245	0.998568	0.00200136	0.990091
rad46	0.000266714	0.998835	0.00184546	0.991936
rad59	0.000184695	0.999019	0.00127795	0.993214
rad67	0.000159865	0.999179	0.00110614	0.994320
PhCCCH3+H	0.000140367	0.999320	0.000971235	0.995292
rad60syn	9.79791e-05	0.999418	0.000677943	0.995970
PAH10+CH3	8.26142e-05	0.999500	0.000571630	0.996541
rad71	7.28074e-05	0.999573	0.000503773	0.997045
rad60anti	7.14060e-05	0.999644	0.000494077	0.997539
rad19syn	7.13406e-05	0.999716	0.000493624	0.998033
rad52	6.19533e-05	0.999778	0.000428671	0.998461
rad58	4.68388e-05	0.999825	0.000324090	0.998785
PAH1+H	3.98744e-05	0.999864	0.000275902	0.999061
rad73	3.17350e-05	0.999896	0.000219583	0.999281
PhcycC3H3_A+H	2.77967e-05	0.999924	0.000192333	0.999473
rad70	1.68825e-05	0.999941	0.000116814	0.999590
rad37	1.28499e-05	0.999954	8.89115e-05	0.999679
PAH8+H	8.50457e-06	0.999962	5.88453e-05	0.999738
rad54	8.38235e-06	0.999971	5.79997e-05	0.999796
rad72	7.52648e-06	0.999978	5.20777e-05	0.999848
rad65	7.06074e-06	0.999985	4.88551e-05	0.999897
rad34	6.39568e-06	0.999992	4.42534e-05	0.999941
rad68syn	1.34606e-06	0.999993	9.31375e-06	0.999950
rad64	1.07438e-06	0.999994	7.43389e-06	0.999958
rad56	9.79690e-07	0.999995	6.77873e-06	0.999965
rad55	8.93999e-07	0.999996	6.18581e-06	0.999971
rad68anti	8.59058e-07	0.999997	5.94405e-06	0.999977
rad40syn	7.44327e-07	0.999997	5.15020e-06	0.999982
rad53	6.73265e-07	0.999998	4.65850e-06	0.999986
rad40anti	5.40357e-07	0.999999	3.73887e-06	0.999990
rad62	5.25220e-07	0.999999	3.63414e-06	0.999994
rad61	4.70536e-07	1.000000	3.25576e-06	0.999997
rad43	2.53715e-07	1.000000	1.75552e-06	0.999999
rad42	9.14458e-08	1.000000	6.32737e-07	0.999999
rad41	4.57450e-08	1.000000	3.16522e-07	1.000000
rad23	9.80702e-19	1.000000	6.78574e-18	1.000000
rad6	5.26566e-19	1.000000	3.64345e-18	1.000000
rad20	3.83869e-19	1.000000	2.65609e-18	1.000000
rad45	3.64247e-19	1.000000	2.52032e-18	1.000000
rad9	3.36409e-19	1.000000	2.32771e-18	1.000000
rad21	1.66173e-19	1.000000	1.14980e-18	1.000000
rad22	1.30761e-19	1.000000	9.04768e-19	1.000000
rad11	9.80857e-20	1.000000	6.78681e-19	1.000000
rad36	6.92991e-20	1.000000	4.79499e-19	1.000000
rad18	4.51591e-20	1.000000	3.12467e-19	1.000000
rad15	2.91808e-20	1.000000	2.01909e-19	1.000000
rad8	2.15817e-20	1.000000	1.49330e-19	1.000000
rad7	1.57403e-20	1.000000	1.08912e-19	1.000000
rad28	1.13059e-20	1.000000	7.82282e-20	1.000000
rad24	1.10778e-20	1.000000	7.66503e-20	1.000000
rad12	1.07284e-20	1.000000	7.42324e-20	1.000000
rad47	6.03541e-21	1.000000	4.17606e-20	1.000000
rad26	3.17882e-21	1.000000	2.19951e-20	1.000000
rad13	2.21088e-21	1.000000	1.52976e-20	1.000000
rad10	1.23647e-21	1.000000	8.55547e-21	1.000000
rad25	6.72544e-22	1.000000	4.65351e-21	1.000000
rad5	2.00796e-22	1.000000	1.38936e-21	1.000000
rad33	1.94932e-22	1.000000	1.34878e-21	1.000000
rad2	9.29106e-23	1.000000	6.42873e-22	1.000000
rad1	4.61497e-23	1.000000	3.19322e-22	1.000000
rad14	1.20218e-23	1.000000	8.31820e-23	1.000000
rad27	6.78839e-24	1.000000	4.69707e-23	1.000000
rad3	5.91907e-24	1.000000	4.09556e-23	1.000000
rad4	3.41848e-24	1.000000	2.36534e-23	1.000000

0.100000000E-07 Pa, 3500.00000 K

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

Total | 2.10046e-12 (1.00) | 3.29923e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.842928	0.842928	0.00000	0.00000
PhCH2CCH+H	0.0857241	0.928652	0.545762	0.545762
Indene+H	0.0229287	0.951581	0.145976	0.691738
PhCHCCH2+H	0.0212218	0.972803	0.135108	0.826846
Ph+Allene	0.0160719	0.988874	0.102322	0.929168
PAH3+H	0.00277080	0.991645	0.0176403	0.946808
PAH7+H	0.00108547	0.992731	0.00691065	0.953719
PAH9+H	0.00103824	0.993769	0.00660998	0.960329
rad19anti	0.000786012	0.994555	0.00500415	0.965333
rad38	0.000657575	0.995213	0.00418645	0.969520
rad50	0.000571322	0.995784	0.00363732	0.973157
Ph+MeAc	0.000559758	0.996344	0.00356370	0.976721
PhCCH+CH3	0.000466753	0.996810	0.00297158	0.979692
rad30	0.000434295	0.997245	0.00276494	0.982457
rad39	0.000426787	0.997672	0.00271714	0.985174
rad51	0.000340822	0.998012	0.00216985	0.987344
rad35	0.000335221	0.998348	0.00213419	0.989478
rad46	0.000264413	0.998612	0.00168339	0.991162
rad59	0.000204435	0.998816	0.00130154	0.992463
rad67	0.000182834	0.998999	0.00116401	0.993627
PhCCCH3+H	0.000163685	0.999163	0.00104210	0.994669
rad71	0.000107601	0.999271	0.000685042	0.995354
rad60syn	0.000103349	0.999374	0.000657969	0.996012
PAH10+CH3	9.81181e-05	0.999472	0.000624669	0.996637
rad19syn	9.79725e-05	0.999570	0.000623742	0.997261
rad60anti	7.58697e-05	0.999646	0.000483025	0.997744
rad52	7.00217e-05	0.999716	0.000445793	0.998190
rad58	5.76196e-05	0.999773	0.000366835	0.998556
PAH1+H	5.20523e-05	0.999826	0.000331391	0.998888
rad73	4.43107e-05	0.999870	0.000282104	0.999170
PhcycC3H3_A+H	3.20633e-05	0.999902	0.000204131	0.999374
rad70	2.14708e-05	0.999923	0.000136694	0.999511
PAH8+H	1.37725e-05	0.999937	8.76827e-05	0.999598
rad37	1.33235e-05	0.999950	8.48243e-05	0.999683
rad72	1.23923e-05	0.999963	7.88958e-05	0.999762
rad54	8.98058e-06	0.999972	5.71749e-05	0.999819
rad34	8.46717e-06	0.999980	5.39063e-05	0.999873
rad65	8.19015e-06	0.999988	5.21426e-05	0.999925
rad68syn	1.99232e-06	0.999990	1.26841e-05	0.999938
rad64	1.43496e-06	0.999992	9.13568e-06	0.999947
rad56	1.27412e-06	0.999993	8.11171e-06	0.999955
rad68anti	1.27030e-06	0.999994	8.08736e-06	0.999963
rad40syn	1.15716e-06	0.999996	7.36708e-06	0.999971
rad55	9.87613e-07	0.999997	6.28764e-06	0.999977
rad40anti	8.52741e-07	0.999997	5.42898e-06	0.999982
rad53	8.35966e-07	0.999998	5.32218e-06	0.999988
rad62	6.97360e-07	0.999999	4.43975e-06	0.999992
rad61	6.32568e-07	1.000000	4.02725e-06	0.999996
rad43	3.12012e-07	1.000000	1.98643e-06	0.999998
rad42	1.30122e-07	1.000000	8.28424e-07	0.999999
rad41	6.11800e-08	1.000000	3.89503e-07	0.999999
rad23	4.69576e-19	1.000000	2.98956e-18	0.999999
rad20	2.74120e-19	1.000000	1.74519e-18	0.999999
rad6	2.12025e-19	1.000000	1.34986e-18	0.999999
rad45	2.04720e-19	1.000000	1.30335e-18	0.999999
rad9	2.03017e-19	1.000000	1.29251e-18	0.999999
rad21	1.14208e-19	1.000000	7.27102e-19	0.999999
rad22	7.18391e-20	1.000000	4.57364e-19	0.999999
rad11	6.60781e-20	1.000000	4.20686e-19	0.999999
rad36	3.92925e-20	1.000000	2.50156e-19	0.999999
rad18	2.79268e-20	1.000000	1.77796e-19	0.999999
rad8	2.04865e-20	1.000000	1.30427e-19	0.999999
rad15	1.87604e-20	1.000000	1.19438e-19	0.999999
rad12	8.20876e-21	1.000000	5.22611e-20	0.999999
rad7	7.97828e-21	1.000000	5.07938e-20	0.999999
rad24	7.82702e-21	1.000000	4.98307e-20	0.999999
rad47	6.94994e-21	1.000000	4.42468e-20	0.999999
rad28	6.78730e-21	1.000000	4.32114e-20	0.999999
rad26	2.07559e-21	1.000000	1.32143e-20	0.999999
rad13	1.21831e-21	1.000000	7.75639e-21	0.999999
rad10	8.51962e-22	1.000000	5.42402e-21	0.999999

rad25	5.44463e-22	1.00000	3.46632e-21	0.999999
rad5	1.92213e-22	1.00000	1.22372e-21	0.999999
rad33	1.19819e-22	1.00000	7.62829e-22	0.999999
rad2	6.33804e-23	1.00000	4.03512e-22	0.999999
rad1	3.46118e-23	1.00000	2.20356e-22	0.999999
rad14	1.06170e-23	1.00000	6.75934e-23	0.999999
rad27	5.69300e-24	1.00000	3.62445e-23	0.999999
rad3	3.26133e-24	1.00000	2.07633e-23	0.999999
rad4	1.84456e-24	1.00000	1.17434e-23	0.999999

0.100000000E-07 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.70978e-12 (1.00)	4.61708e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829614	0.829614	0.00000	0.00000
PhCH2CCH+H	0.0978316	0.927446	0.574175	0.574175
PhCHCCH2+H	0.0240141	0.951460	0.140939	0.715114
Indene+H	0.0190788	0.970538	0.111974	0.827088
Ph+Allene	0.0176550	0.988193	0.103617	0.930705
PAH3+H	0.00305565	0.991249	0.0179337	0.948639
PAH7+H	0.00116197	0.992411	0.00681959	0.955458
PAH9+H	0.000955042	0.993366	0.00560515	0.961063
rad19anti	0.000750872	0.994117	0.00440688	0.965470
Ph+MeAc	0.000618509	0.994736	0.00363004	0.969100
rad38	0.000613193	0.995349	0.00359884	0.972699
rad50	0.000603635	0.995952	0.00354274	0.976242
PhCCH+CH3	0.000581835	0.996534	0.00341479	0.979657
rad39	0.000465790	0.997000	0.00273373	0.982390
rad30	0.000416539	0.997417	0.00244467	0.984835
rad51	0.000380994	0.997798	0.00223606	0.987071
rad35	0.000341508	0.998139	0.00200431	0.989075
rad46	0.000254425	0.998393	0.00149322	0.990569
rad59	0.000220084	0.998614	0.00129168	0.991860
rad67	0.000201013	0.998815	0.00117975	0.993040
PhCCCH3+H	0.000187990	0.999003	0.00110331	0.994143
rad71	0.000146780	0.999149	0.000861455	0.995005
rad19syn	0.000129261	0.999279	0.000758633	0.995764
PAH10+CH3	0.000111172	0.999390	0.000652468	0.996416
rad60syn	0.000106707	0.999496	0.000626263	0.997042
rad60anti	7.88382e-05	0.999575	0.000462703	0.997505
rad52	7.54521e-05	0.999651	0.000442829	0.997948
rad58	6.80261e-05	0.999719	0.000399246	0.998347
PAH1+H	6.45813e-05	0.999783	0.000379028	0.998726
rad73	5.74878e-05	0.999841	0.000337397	0.999063
PhcycC3H3_A+H	3.61213e-05	0.999877	0.000211996	0.999275
rad70	2.62309e-05	0.999903	0.000153949	0.999429
PAH8+H	2.07420e-05	0.999924	0.000121735	0.999551
rad72	1.85748e-05	0.999943	0.000109016	0.999660
rad37	1.33636e-05	0.999956	7.84314e-05	0.999739
rad34	1.07116e-05	0.999967	6.28665e-05	0.999801
rad54	9.53969e-06	0.999976	5.59886e-05	0.999857
rad65	9.05125e-06	0.999985	5.31219e-05	0.999911
rad68syn	2.77520e-06	0.999988	1.62877e-05	0.999927
rad64	1.81236e-06	0.999990	1.06367e-05	0.999938
rad68anti	1.76807e-06	0.999992	1.03768e-05	0.999948
rad40syn	1.68193e-06	0.999993	9.87130e-06	0.999958
rad56	1.59874e-06	0.999995	9.38301e-06	0.999967
rad40anti	1.25564e-06	0.999996	7.36935e-06	0.999975
rad55	1.07703e-06	0.999997	6.32112e-06	0.999981
rad53	1.00840e-06	0.999998	5.91834e-06	0.999987
rad62	8.81786e-07	0.999999	5.17522e-06	0.999992
rad61	7.98455e-07	1.00000	4.68615e-06	0.999997
rad43	3.67979e-07	1.00000	2.15967e-06	0.999999
rad42	1.74775e-07	1.00000	1.02576e-06	1.00000
rad41	7.77074e-08	1.00000	4.56066e-07	1.00000
rad23	2.37576e-19	1.00000	1.39434e-18	1.00000
rad20	2.02983e-19	1.00000	1.19131e-18	1.00000
rad9	1.26593e-19	1.00000	7.42974e-19	1.00000
rad45	1.19947e-19	1.00000	7.03971e-19	1.00000
rad6	9.75256e-20	1.00000	5.72379e-19	1.00000
rad21	8.13804e-20	1.00000	4.77623e-19	1.00000
rad11	4.75768e-20	1.00000	2.79229e-19	1.00000
rad22	4.20237e-20	1.00000	2.46638e-19	1.00000
rad36	2.31100e-20	1.00000	1.35633e-19	1.00000
rad8	1.91572e-20	1.00000	1.12434e-19	1.00000
rad18	1.80283e-20	1.00000	1.05808e-19	1.00000

rad15	1.23473e-20	1.00000	7.24667e-20	1.00000
rad47	7.59707e-21	1.00000	4.45873e-20	1.00000
rad12	6.32118e-21	1.00000	3.70991e-20	1.00000
rad24	5.63439e-21	1.00000	3.30683e-20	1.00000
rad7	4.44215e-21	1.00000	2.60711e-20	1.00000
rad28	4.30193e-21	1.00000	2.52481e-20	1.00000
rad26	1.37558e-21	1.00000	8.07328e-21	1.00000
rad13	7.33170e-22	1.00000	4.30298e-21	1.00000
rad10	5.95068e-22	1.00000	3.49246e-21	1.00000
rad25	4.50617e-22	1.00000	2.64468e-21	1.00000
rad5	1.83996e-22	1.00000	1.07987e-21	1.00000
rad33	7.87849e-23	1.00000	4.62390e-22	1.00000
rad2	4.53930e-23	1.00000	2.66412e-22	1.00000
rad1	2.63611e-23	1.00000	1.54714e-22	1.00000
rad14	9.45605e-24	1.00000	5.54977e-23	1.00000
rad27	4.76374e-24	1.00000	2.79584e-23	1.00000
rad3	1.99186e-24	1.00000	1.16902e-23	1.00000
rad4	1.11090e-24	1.00000	6.51989e-24	1.00000

0.100000000E-07 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28297e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.816017	0.816017	0.00000	0.00000
PhCH2CCH+H	0.109584	0.925601	0.595618	0.595618
PhCHCCH2+H	0.0267098	0.952311	0.145175	0.740793
Ph+Allene	0.0193046	0.971615	0.104926	0.845719
Indene+H	0.0160484	0.987664	0.0872277	0.932947
PAH3+H	0.00329013	0.990954	0.0178828	0.950829
PAH7+H	0.00121791	0.992172	0.00661968	0.957449
PAH9+H	0.000864009	0.993036	0.00469613	0.962145
PhCCH+CH3	0.000720156	0.993756	0.00391424	0.966060
rad19anti	0.000708493	0.994464	0.00385085	0.969910
Ph+MeAc	0.000663934	0.995128	0.00360866	0.973519
rad50	0.000616859	0.995745	0.00335280	0.976872
rad38	0.000560144	0.996305	0.00304454	0.979916
rad39	0.000491035	0.996796	0.00266891	0.982585
rad51	0.000408498	0.997205	0.00222030	0.984806
rad30	0.000396478	0.997601	0.00215497	0.986961
rad35	0.000343096	0.997945	0.00186482	0.988825
rad46	0.000239253	0.998184	0.00130041	0.990126
rad59	0.000231903	0.998416	0.00126046	0.991386
rad67	0.000214260	0.998630	0.00116456	0.992551
PhCCCH3+H	0.000213580	0.998844	0.00116087	0.993712
rad71	0.000187844	0.999031	0.00102098	0.994733
rad19syn	0.000163941	0.999195	0.000891067	0.995624
PAH10+CH3	0.000121536	0.999317	0.000660582	0.996284
rad60syn	0.000108396	0.999425	0.000589161	0.996873
rad60anti	8.05427e-05	0.999506	0.000437772	0.997311
rad52	7.82960e-05	0.999584	0.000425560	0.997737
rad58	7.77572e-05	0.999662	0.000422632	0.998159
PAH1+H	7.70001e-05	0.999739	0.000418517	0.998578
rad73	7.03552e-05	0.999809	0.000382400	0.998960
PhcycC3H3_A+H	3.98813e-05	0.999849	0.000216766	0.999177
rad70	3.09908e-05	0.999880	0.000168444	0.999346
PAH8+H	2.94355e-05	0.999910	0.000159990	0.999506
rad72	2.58284e-05	0.999935	0.000140384	0.999646
rad37	1.30848e-05	0.999948	7.11194e-05	0.999717
rad34	1.30497e-05	0.999961	7.09289e-05	0.999788
rad54	1.00584e-05	0.999972	5.46703e-05	0.999843
rad65	9.63686e-06	0.999981	5.23790e-05	0.999895
rad68syn	3.67778e-06	0.999985	1.99898e-05	0.999915
rad68anti	2.34154e-06	0.999987	1.27269e-05	0.999928
rad40syn	2.31359e-06	0.999990	1.25750e-05	0.999940
rad64	2.19077e-06	0.999992	1.19074e-05	0.999952
rad56	1.94741e-06	0.999994	1.05847e-05	0.999963
rad40anti	1.74691e-06	0.999995	9.49492e-06	0.999972
rad53	1.18744e-06	0.999997	6.45406e-06	0.999979
rad55	1.16170e-06	0.999998	6.31418e-06	0.999985
rad62	1.07271e-06	0.999999	5.83046e-06	0.999991
rad61	9.59661e-07	1.000000	5.21602e-06	0.999996
rad43	4.20278e-07	1.000000	2.28433e-06	0.999998
rad42	2.24298e-07	1.000000	1.21912e-06	1.000000
rad41	9.47630e-08	1.000000	5.15063e-07	1.000000
rad20	1.54922e-19	1.000000	8.42046e-19	1.000000
rad23	1.25894e-19	1.000000	6.84269e-19	1.000000

rad9	8.14070e-20	1.00000	4.42469e-19	1.00000
rad45	7.20885e-20	1.00000	3.91821e-19	1.00000
rad21	5.97853e-20	1.00000	3.24950e-19	1.00000
rad6	5.01136e-20	1.00000	2.72381e-19	1.00000
rad11	3.59957e-20	1.00000	1.95647e-19	1.00000
rad22	2.59193e-20	1.00000	1.40878e-19	1.00000
rad8	1.76788e-20	1.00000	9.60889e-20	1.00000
rad36	1.39553e-20	1.00000	7.58509e-20	1.00000
rad18	1.20669e-20	1.00000	6.55872e-20	1.00000
rad15	8.31113e-21	1.00000	4.51733e-20	1.00000
rad47	7.97227e-21	1.00000	4.33315e-20	1.00000
rad12	4.90407e-21	1.00000	2.66550e-20	1.00000
rad24	4.12849e-21	1.00000	2.24395e-20	1.00000
rad28	2.83269e-21	1.00000	1.53965e-20	1.00000
rad7	2.66534e-21	1.00000	1.44868e-20	1.00000
rad26	9.26845e-22	1.00000	5.03766e-21	1.00000
rad13	4.73266e-22	1.00000	2.57233e-21	1.00000
rad10	4.23710e-22	1.00000	2.30298e-21	1.00000
rad25	3.78502e-22	1.00000	2.05726e-21	1.00000
rad5	1.76140e-22	1.00000	9.57369e-22	1.00000
rad33	5.47163e-23	1.00000	2.97398e-22	1.00000
rad2	3.40425e-23	1.00000	1.85030e-22	1.00000
rad1	2.02816e-23	1.00000	1.10236e-22	1.00000
rad14	8.43867e-24	1.00000	4.58665e-23	1.00000
rad27	3.99728e-24	1.00000	2.17263e-23	1.00000
rad3	1.31167e-24	1.00000	7.12928e-24	1.00000
rad4	7.26202e-25	1.00000	3.94711e-24	1.00000

0.100000000E-08 Pa, 20.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.34336e-156 (1.00)	1.34336e-156 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999999	0.999999	0.999999	0.999999
Benzyl+C2H2	8.12023e-07	1.000000	0.000000	0.999999
rad6	5.48658e-07	1.000000	5.48659e-07	1.000000
rad2	2.48183e-10	1.000000	2.48183e-10	1.000000
rad7	3.95632e-11	1.000000	3.95632e-11	1.000000
rad1	1.56859e-11	1.000000	1.56859e-11	1.000000
rad10	1.49292e-11	1.000000	1.49292e-11	1.000000
rad11	9.67960e-12	1.000000	9.67961e-12	1.000000
rad3	1.60490e-12	1.000000	1.60490e-12	1.000000
rad4	8.11363e-13	1.000000	8.11363e-13	1.000000
rad13	2.19960e-13	1.000000	2.19961e-13	1.000000
rad33	4.19943e-16	1.000000	4.19944e-16	1.000000
rad20	1.15839e-17	1.000000	1.15840e-17	1.000000
rad35	1.04100e-17	1.000000	1.04101e-17	1.000000
rad21	7.22479e-18	1.000000	7.22479e-18	1.000000
rad28	3.79708e-19	1.000000	3.79709e-19	1.000000
PAH9+H	1.40351e-19	1.000000	1.40351e-19	1.000000
rad18	5.44867e-20	1.000000	5.44867e-20	1.000000
rad26	1.19386e-20	1.000000	1.19386e-20	1.000000
rad31	8.49765e-21	1.000000	8.49765e-21	1.000000
rad22	3.79581e-21	1.000000	3.79581e-21	1.000000
rad23	9.24342e-22	1.000000	9.24342e-22	1.000000
rad38	2.78579e-22	1.000000	2.78579e-22	1.000000
rad30	1.38666e-22	1.000000	1.38666e-22	1.000000
rad45	5.64815e-24	1.000000	5.64815e-24	1.000000
rad27	4.79386e-24	1.000000	4.79387e-24	1.000000
PhCHCCH2+H	3.72658e-24	1.000000	3.72659e-24	1.000000
rad36	3.51833e-25	1.000000	3.51833e-25	1.000000
rad24	2.32418e-25	1.000000	2.32418e-25	1.000000
PhCCH+CH3	1.22308e-25	1.000000	1.22308e-25	1.000000
PhCCH3+H	1.74860e-26	1.000000	1.74861e-26	1.000000
rad15	1.10167e-26	1.000000	1.10167e-26	1.000000
rad25	8.72072e-29	1.000000	8.72073e-29	1.000000
rad14	5.75296e-30	1.000000	5.75297e-30	1.000000
rad8	6.51606e-32	1.000000	6.51607e-32	1.000000
rad46	3.90408e-34	1.000000	3.90408e-34	1.000000
rad9	1.96679e-34	1.000000	1.96679e-34	1.000000
PAH7+H	2.52710e-35	1.000000	2.52710e-35	1.000000
Ph+MeAc	2.86072e-36	1.000000	2.86072e-36	1.000000
rad12	1.02827e-36	1.000000	1.02827e-36	1.000000
rad39	5.41050e-38	1.000000	5.41051e-38	1.000000
Ph+Allene	1.31585e-40	1.000000	1.31585e-40	1.000000
rad60syn	1.18415e-44	1.000000	1.18415e-44	1.000000
rad60anti	1.22699e-46	1.000000	1.22699e-46	1.000000

PhCH2CCH+H	2.04275e-48	1.00000	2.04275e-48	1.000000
rad37	1.75900e-49	1.00000	1.75900e-49	1.000000
rad5	1.16630e-52	1.00000	1.16630e-52	1.000000
PAH3+H	2.07928e-57	1.00000	2.07929e-57	1.000000
rad59	1.11342e-57	1.00000	1.11342e-57	1.000000
rad50	4.52304e-58	1.00000	4.52305e-58	1.000000
rad19syn	1.63192e-66	1.00000	1.63192e-66	1.000000
rad52	1.97601e-70	1.00000	1.97601e-70	1.000000
rad54	1.88609e-71	1.00000	1.88609e-71	1.000000
PAH10+CH3	1.18276e-71	1.00000	1.18276e-71	1.000000
rad43	2.80770e-72	1.00000	2.80770e-72	1.000000
rad62	8.41665e-75	1.00000	8.41666e-75	1.000000
rad51	9.49978e-78	1.00000	9.49979e-78	1.000000
rad70	1.01425e-80	1.00000	1.01425e-80	1.000000
PhcycC3H3_A+H	4.29558e-81	1.00000	4.29559e-81	1.000000
rad55	2.31301e-81	1.00000	2.31301e-81	1.000000
rad65	6.37897e-83	1.00000	6.37898e-83	1.000000
rad58	1.44314e-84	1.00000	1.44314e-84	1.000000
PAH1+H	1.87633e-86	1.00000	1.87633e-86	1.000000
rad34	1.28068e-88	1.00000	1.28068e-88	1.000000
rad42	9.10431e-93	1.00000	9.10432e-93	1.000000
rad41	1.13284e-93	1.00000	1.13284e-93	1.000000
rad47	3.56031e-100	1.00000	3.56032e-100	1.000000

0.100000000E-08 Pa, 30.0000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.15918e-108	(1.00)	1.15918e-108 (1.00)
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.999999	0.999999	1.00000	1.00000
Benzyl+C2H2	1.04118e-06	1.00000	0.00000	1.00000
rad6	1.72289e-07	1.00000	1.72289e-07	1.00000
rad2	8.29247e-11	1.00000	8.29248e-11	1.00000
rad7	1.24274e-11	1.00000	1.24274e-11	1.00000
rad10	5.68586e-12	1.00000	5.68587e-12	1.00000
rad1	5.24414e-12	1.00000	5.24415e-12	1.00000
rad11	3.04399e-12	1.00000	3.04400e-12	1.00000
rad3	5.88213e-13	1.00000	5.88214e-13	1.00000
rad4	2.97412e-13	1.00000	2.97412e-13	1.00000
rad13	6.91043e-14	1.00000	6.91044e-14	1.00000
rad35	3.24587e-15	1.00000	3.24587e-15	1.00000
rad33	1.32953e-16	1.00000	1.32953e-16	1.00000
rad20	5.66128e-18	1.00000	5.66128e-18	1.00000
rad21	3.53141e-18	1.00000	3.53141e-18	1.00000
PAH9+H	3.16495e-18	1.00000	3.16495e-18	1.00000
rad28	1.21017e-19	1.00000	1.21017e-19	1.00000
rad18	2.66397e-20	1.00000	2.66398e-20	1.00000
rad31	3.83735e-21	1.00000	3.83736e-21	1.00000
rad26	3.72784e-21	1.00000	3.72784e-21	1.00000
rad22	1.85323e-21	1.00000	1.85323e-21	1.00000
rad23	4.17003e-22	1.00000	4.17004e-22	1.00000
rad38	1.74709e-22	1.00000	1.74709e-22	1.00000
rad30	8.65603e-23	1.00000	8.65604e-23	1.00000
PhCHCCH2+H	2.36580e-24	1.00000	2.36580e-24	1.00000
rad45	1.93545e-24	1.00000	1.93545e-24	1.00000
rad27	1.48501e-24	1.00000	1.48501e-24	1.00000
rad36	1.20520e-25	1.00000	1.20520e-25	1.00000
rad24	1.15391e-25	1.00000	1.15391e-25	1.00000
PhCCH+CH3	7.81319e-26	1.00000	7.81319e-26	1.00000
PhCCCH3+H	1.11986e-26	1.00000	1.11986e-26	1.00000
rad15	6.95065e-27	1.00000	6.95066e-27	1.00000
rad25	2.72777e-29	1.00000	2.72778e-29	1.00000
rad14	1.80747e-30	1.00000	1.80747e-30	1.00000
rad8	4.23610e-32	1.00000	4.23610e-32	1.00000
rad46	2.50676e-34	1.00000	2.50676e-34	1.00000
rad9	1.28871e-34	1.00000	1.28871e-34	1.00000
PAH7+H	1.66139e-35	1.00000	1.66139e-35	1.00000
Ph+MeAc	1.89592e-36	1.00000	1.89592e-36	1.00000
rad12	6.78691e-37	1.00000	6.78692e-37	1.00000
rad39	3.58270e-38	1.00000	3.58270e-38	1.00000
Ph+Allene	8.82875e-41	1.00000	8.82876e-41	1.00000
rad60syn	7.92825e-45	1.00000	7.92826e-45	1.00000
rad60anti	8.27047e-47	1.00000	8.27047e-47	1.00000
PhCH2CCH+H	1.40708e-48	1.00000	1.40709e-48	1.00000
rad37	1.22018e-49	1.00000	1.22018e-49	1.00000
rad5	8.11731e-53	1.00000	8.11732e-53	1.00000
PAH3+H	1.45732e-57	1.00000	1.45732e-57	1.00000

rad59	7.80247e-58	1.00000	7.80247e-58	1.00000
rad50	3.15729e-58	1.00000	3.15729e-58	1.00000
rad19syn	1.19102e-66	1.00000	1.19103e-66	1.00000
rad52	1.43901e-70	1.00000	1.43901e-70	1.00000
rad54	1.39833e-71	1.00000	1.39833e-71	1.00000
PAH10+CH3	8.79717e-72	1.00000	8.79718e-72	1.00000
rad43	2.08839e-72	1.00000	2.08839e-72	1.00000
rad62	6.30846e-75	1.00000	6.30846e-75	1.00000
rad51	7.11111e-78	1.00000	7.11112e-78	1.00000
rad70	7.76024e-81	1.00000	7.76025e-81	1.00000
PhcycC3H3_A+H	3.29356e-81	1.00000	3.29356e-81	1.00000
rad55	1.77309e-81	1.00000	1.77309e-81	1.00000
rad65	4.85027e-83	1.00000	4.85028e-83	1.00000
rad58	1.10853e-84	1.00000	1.10853e-84	1.00000
PAH1+H	1.46772e-86	1.00000	1.46772e-86	1.00000
rad34	1.00634e-88	1.00000	1.00634e-88	1.00000
rad42	7.25050e-93	1.00000	7.25050e-93	1.00000
rad41	9.07615e-94	1.00000	9.07616e-94	1.00000
rad47	1.37704e-100	1.00000	1.37704e-100	1.00000

0.1000000000E-08 Pa, 40.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.02415e-84 (1.00)	1.02415e-84 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999998	0.999998	1.00000	1.00000
Benzyl+C2H2	1.52923e-06	1.00000	0.00000	1.00000
rad6	8.79583e-08	1.00000	8.79584e-08	1.00000
rad2	7.09830e-11	1.00000	7.09831e-11	1.00000
rad7	6.34865e-12	1.00000	6.34866e-12	1.00000
rad1	4.49457e-12	1.00000	4.49458e-12	1.00000
rad10	3.58145e-12	1.00000	3.58145e-12	1.00000
rad11	1.55655e-12	1.00000	1.55656e-12	1.00000
rad3	4.19301e-13	1.00000	4.19302e-13	1.00000
rad4	2.12077e-13	1.00000	2.12077e-13	1.00000
rad35	5.91220e-14	1.00000	5.91221e-14	1.00000
rad13	3.53147e-14	1.00000	3.53148e-14	1.00000
PAH9+H	4.49703e-16	1.00000	4.49704e-16	1.00000
rad33	6.83744e-17	1.00000	6.83745e-17	1.00000
rad20	3.70227e-18	1.00000	3.70228e-18	1.00000
rad21	2.31016e-18	1.00000	2.31016e-18	1.00000
rad28	9.13355e-20	1.00000	9.13357e-20	1.00000
rad18	1.74355e-20	1.00000	1.74355e-20	1.00000
rad38	1.16620e-20	1.00000	1.16620e-20	1.00000
rad26	2.80569e-21	1.00000	2.80570e-21	1.00000
rad31	2.43662e-21	1.00000	2.43663e-21	1.00000
rad22	1.21114e-21	1.00000	1.21114e-21	1.00000
rad23	2.67024e-22	1.00000	2.67024e-22	1.00000
rad30	1.73401e-22	1.00000	1.73401e-22	1.00000
PhCHCCH2+H	2.73209e-24	1.00000	2.73209e-24	1.00000
rad45	1.80749e-24	1.00000	1.80749e-24	1.00000
rad27	1.11886e-24	1.00000	1.11887e-24	1.00000
rad36	1.12492e-25	1.00000	1.12492e-25	1.00000
PhCCH+CH3	9.14707e-26	1.00000	9.14708e-26	1.00000
rad24	7.79756e-26	1.00000	7.79757e-26	1.00000
PhCCH3+H	1.31847e-26	1.00000	1.31847e-26	1.00000
rad15	7.91308e-27	1.00000	7.91309e-27	1.00000
rad25	2.08334e-29	1.00000	2.08334e-29	1.00000
rad14	1.39512e-30	1.00000	1.39513e-30	1.00000
rad8	5.15092e-32	1.00000	5.15093e-32	1.00000
rad46	2.96593e-34	1.00000	2.96594e-34	1.00000
rad9	1.59210e-34	1.00000	1.59210e-34	1.00000
PAH7+H	2.06964e-35	1.00000	2.06964e-35	1.00000
Ph+MeAc	2.40196e-36	1.00000	2.40196e-36	1.00000
rad12	8.52615e-37	1.00000	8.52616e-37	1.00000
rad39	4.53009e-38	1.00000	4.53010e-38	1.00000
Ph+Allene	1.14641e-40	1.00000	1.14641e-40	1.00000
rad60syn	1.02490e-44	1.00000	1.02490e-44	1.00000
rad60anti	1.08432e-46	1.00000	1.08432e-46	1.00000
PhCH2CCH+H	1.93058e-48	1.00000	1.93059e-48	1.00000
rad37	1.70407e-49	1.00000	1.70407e-49	1.00000
rad5	1.14164e-52	1.00000	1.14164e-52	1.00000
PAH3+H	2.07351e-57	1.00000	2.07351e-57	1.00000
rad59	1.10979e-57	1.00000	1.10979e-57	1.00000
rad50	4.45552e-58	1.00000	4.45552e-58	1.00000
rad19syn	1.84452e-66	1.00000	1.84453e-66	1.00000
rad52	2.21991e-70	1.00000	2.21991e-70	1.00000

rad54	2.23799e-71	1.000000	2.23799e-71	1.00000
PAH10+CH3	1.43043e-71	1.000000	1.43044e-71	1.00000
rad43	3.39564e-72	1.000000	3.39565e-72	1.00000
rad62	1.03795e-74	1.000000	1.03795e-74	1.00000
rad51	1.16250e-77	1.000000	1.16250e-77	1.00000
rad70	1.32664e-80	1.000000	1.32664e-80	1.00000
PhcycC3H3_A+H	5.65534e-81	1.000000	5.65535e-81	1.00000
rad55	3.04322e-81	1.000000	3.04323e-81	1.00000
rad65	8.19423e-83	1.000000	8.19424e-83	1.00000
rad58	1.91078e-84	1.000000	1.91078e-84	1.00000
PAH1+H	2.62843e-86	1.000000	2.62843e-86	1.00000
rad34	1.81903e-88	1.000000	1.81903e-88	1.00000
rad42	1.35850e-92	1.000000	1.35850e-92	1.00000
rad41	1.75648e-93	1.000000	1.75648e-93	1.00000
rad47	1.64992e-100	1.000000	1.64992e-100	1.00000

0.100000000E-08 Pa, 50.0000000 K

Rate constant	True (fraction)		Effective (fraction)	
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Total	2.31816e-70	(1.00)	2.31816e-70	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.999998	0.999998	1.00000	1.00000
Benzyl+C2H2	2.26192e-06	1.00000	0.00000	1.00000
rad6	5.37126e-08	1.00000	5.37127e-08	1.00000
rad2	8.01475e-11	1.00000	8.01476e-11	1.00000
rad1	5.08337e-12	1.00000	5.08338e-12	1.00000
rad7	3.88041e-12	1.00000	3.88041e-12	1.00000
rad10	2.69696e-12	1.00000	2.69697e-12	1.00000
rad11	9.52260e-13	1.00000	9.52263e-13	1.00000
rad3	6.37809e-13	1.00000	6.37810e-13	1.00000
rad4	3.22740e-13	1.00000	3.22741e-13	1.00000
rad35	3.19943e-13	1.00000	3.19943e-13	1.00000
rad13	2.15957e-14	1.00000	2.15958e-14	1.00000
PAH9+H	8.81866e-15	1.00000	8.81868e-15	1.00000
rad33	4.20566e-17	1.00000	4.20567e-17	1.00000
rad20	2.70711e-18	1.00000	2.70712e-18	1.00000
rad38	2.32259e-18	1.00000	2.32260e-18	1.00000
rad21	1.68998e-18	1.00000	1.68998e-18	1.00000
rad28	2.57585e-19	1.00000	2.57585e-19	1.00000
rad30	1.72368e-19	1.00000	1.72368e-19	1.00000
rad18	1.27615e-20	1.00000	1.27615e-20	1.00000
rad26	6.03664e-21	1.00000	6.03665e-21	1.00000
rad31	1.83754e-21	1.00000	1.83755e-21	1.00000
rad22	8.84814e-22	1.00000	8.84816e-22	1.00000
rad23	1.94643e-22	1.00000	1.94643e-22	1.00000
rad27	6.14386e-24	1.00000	6.14388e-24	1.00000
PhCHCCH2+H	4.70695e-24	1.00000	4.70696e-24	1.00000
rad45	1.66695e-24	1.00000	1.66695e-24	1.00000
rad15	2.19757e-25	1.00000	2.19757e-25	1.00000
PhCCH+CH3	1.60669e-25	1.00000	1.60669e-25	1.00000
rad36	1.03653e-25	1.00000	1.03653e-25	1.00000
rad24	5.96933e-26	1.00000	5.96935e-26	1.00000
PhCCCH3+H	2.33547e-26	1.00000	2.33548e-26	1.00000
rad25	2.84184e-29	1.00000	2.84185e-29	1.00000
rad14	1.83005e-30	1.00000	1.83005e-30	1.00000
rad8	9.55861e-32	1.00000	9.55863e-32	1.00000
rad46	5.28630e-34	1.00000	5.28631e-34	1.00000
rad9	3.01521e-34	1.00000	3.01522e-34	1.00000
PAH7+H	3.96692e-35	1.00000	3.96692e-35	1.00000
Ph+MeAc	4.73213e-36	1.00000	4.73214e-36	1.00000
rad12	1.65912e-36	1.00000	1.65913e-36	1.00000
rad39	8.86704e-38	1.00000	8.86706e-38	1.00000
Ph+Allene	2.32911e-40	1.00000	2.32911e-40	1.00000
rad60syn	2.06910e-44	1.00000	2.06911e-44	1.00000
rad60anti	2.23306e-46	1.00000	2.23307e-46	1.00000
PhCH2CCH+H	4.23993e-48	1.00000	4.23994e-48	1.00000
rad37	3.88854e-49	1.00000	3.88855e-49	1.00000
rad5	2.63409e-52	1.00000	2.63410e-52	1.00000
PAH3+H	4.79417e-57	1.00000	4.79418e-57	1.00000
rad59	2.56473e-57	1.00000	2.56473e-57	1.00000
rad50	1.02061e-57	1.00000	1.02061e-57	1.00000
rad19syn	4.80919e-66	1.00000	4.80920e-66	1.00000
rad52	5.78777e-70	1.00000	5.78778e-70	1.00000
rad54	6.11389e-71	1.00000	6.11390e-71	1.00000
PAH10+CH3	4.26832e-71	1.00000	4.26833e-71	1.00000
rad43	1.01318e-71	1.00000	1.01318e-71	1.00000
rad62	3.06561e-74	1.00000	3.06562e-74	1.00000

rad51	3.30400e-77	1.00000	3.30401e-77	1.00000
rad70	3.98004e-80	1.00000	3.98005e-80	1.00000
PhcycC3H3_A+H	1.70734e-80	1.00000	1.70734e-80	1.00000
rad55	9.18151e-81	1.00000	9.18153e-81	1.00000
rad65	2.44655e-82	1.00000	2.44656e-82	1.00000
rad58	5.80027e-84	1.00000	5.80028e-84	1.00000
PAH1+H	8.42798e-86	1.00000	8.42800e-86	1.00000
rad34	5.90808e-88	1.00000	5.90809e-88	1.00000
rad42	5.12886e-92	1.00000	5.12887e-92	1.00000
rad41	8.51349e-93	1.00000	8.51351e-93	1.00000
rad47	4.04752e-100	1.00000	4.04753e-100	1.00000

0.100000000E-08 Pa, 60.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.44107e-61 (1.00)	8.44104e-61 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999997	0.999997	1.00000	1.00000
Benzyl+C2H2	3.25417e-06	1.00000	0.00000	1.00000
rad6	3.60046e-08	1.00000	3.60047e-08	1.00000
rad2	1.49544e-11	1.00000	1.49545e-11	1.00000
rad7	2.60400e-12	1.00000	2.60400e-12	1.00000
rad10	1.53578e-12	1.00000	1.53579e-12	1.00000
rad35	9.63220e-13	1.00000	9.63223e-13	1.00000
rad1	9.50583e-13	1.00000	9.50586e-13	1.00000
rad11	6.39596e-13	1.00000	6.39598e-13	1.00000
rad3	6.99112e-14	1.00000	6.99114e-14	1.00000
PAH9+H	6.37584e-14	1.00000	6.37586e-14	1.00000
rad4	3.53939e-14	1.00000	3.53940e-14	1.00000
rad13	1.45010e-14	1.00000	1.45010e-14	1.00000
rad38	7.70757e-17	1.00000	7.70760e-17	1.00000
rad33	2.83996e-17	1.00000	2.83997e-17	1.00000
rad30	2.80450e-17	1.00000	2.80451e-17	1.00000
rad28	1.21185e-17	1.00000	1.21185e-17	1.00000
rad20	2.10372e-18	1.00000	2.10373e-18	1.00000
rad21	1.31406e-18	1.00000	1.31406e-18	1.00000
rad26	3.19061e-19	1.00000	3.19062e-19	1.00000
rad18	9.92647e-21	1.00000	9.92650e-21	1.00000
rad31	1.39603e-21	1.00000	1.39603e-21	1.00000
rad22	6.86722e-22	1.00000	6.86725e-22	1.00000
rad15	4.76227e-22	1.00000	4.76228e-22	1.00000
rad27	1.79872e-22	1.00000	1.79872e-22	1.00000
rad23	1.51968e-22	1.00000	1.51968e-22	1.00000
PhCHCCH2+H	9.14388e-23	1.00000	9.14391e-23	1.00000
PhCCH+CH3	1.17179e-24	1.00000	1.17180e-24	1.00000
rad45	4.80046e-25	1.00000	4.80047e-25	1.00000
PhCCCH3+H	6.53793e-26	1.00000	6.53796e-26	1.00000
rad24	4.90146e-26	1.00000	4.90147e-26	1.00000
rad36	2.98264e-26	1.00000	2.98265e-26	1.00000
rad25	1.23188e-27	1.00000	1.23189e-27	1.00000
rad14	5.34126e-29	1.00000	5.34128e-29	1.00000
rad8	2.83636e-31	1.00000	2.83637e-31	1.00000
rad46	1.49068e-33	1.00000	1.49069e-33	1.00000
rad9	9.13796e-34	1.00000	9.13799e-34	1.00000
PAH7+H	1.22910e-34	1.00000	1.22911e-34	1.00000
Ph+MeAc	1.51761e-35	1.00000	1.51761e-35	1.00000
rad12	5.24114e-36	1.00000	5.24115e-36	1.00000
rad39	2.81390e-37	1.00000	2.81391e-37	1.00000
Ph+Allene	7.68392e-40	1.00000	7.68395e-40	1.00000
rad60syn	6.77348e-44	1.00000	6.77350e-44	1.00000
rad60anti	7.48930e-46	1.00000	7.48932e-46	1.00000
PhCH2CCH+H	1.53856e-47	1.00000	1.53856e-47	1.00000
rad37	1.55158e-48	1.00000	1.55159e-48	1.00000
rad5	1.07102e-51	1.00000	1.07103e-51	1.00000
PAH3+H	1.85425e-56	1.00000	1.85425e-56	1.00000
rad59	9.91347e-57	1.00000	9.91350e-57	1.00000
rad50	3.94049e-57	1.00000	3.94051e-57	1.00000
rad19syn	2.16809e-65	1.00000	2.16809e-65	1.00000
rad52	2.69300e-69	1.00000	2.69301e-69	1.00000
PAH10+CH3	3.29131e-70	1.00000	3.29132e-70	1.00000
rad54	2.93231e-70	1.00000	2.93232e-70	1.00000
rad43	7.81009e-71	1.00000	7.81011e-71	1.00000
rad62	2.12090e-73	1.00000	2.12090e-73	1.00000
rad51	1.78512e-76	1.00000	1.78513e-76	1.00000
rad70	2.17584e-79	1.00000	2.17585e-79	1.00000
PhcycC3H3_A+H	9.42027e-80	1.00000	9.42030e-80	1.00000
rad55	5.06085e-80	1.00000	5.06086e-80	1.00000

rad65	1.45419e-81	1.00000	1.45419e-81	1.00000
rad58	3.22668e-83	1.00000	3.22670e-83	1.00000
PAH1+H	5.12884e-85	1.00000	5.12886e-85	1.00000
rad34	3.64880e-87	1.00000	3.64881e-87	1.00000
rad42	8.80819e-91	1.00000	8.80822e-91	1.00000
rad41	3.15601e-91	1.00000	3.15602e-91	1.00000
rad47	2.34414e-99	1.00000	2.34415e-99	1.00000

0.100000000E-08 Pa, 70.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	5.61998e-54 (1.00)	5.61996e-54 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999995	0.999995	1.00000	1.00000
Benzyl+C2H2	4.55799e-06	1.000000	0.00000	1.00000
rad6	2.55533e-08	1.000000	2.55534e-08	1.00000
rad2	5.41981e-11	1.000000	5.41983e-11	1.00000
rad1	3.45340e-12	1.000000	3.45341e-12	1.00000
rad10	2.28653e-12	1.000000	2.28654e-12	1.00000
rad35	2.11185e-12	1.000000	2.11185e-12	1.00000
rad7	1.85044e-12	1.000000	1.85045e-12	1.00000
rad3	5.62342e-13	1.000000	5.62344e-13	1.00000
rad11	4.54911e-13	1.000000	4.54913e-13	1.00000
rad4	2.84890e-13	1.000000	2.84891e-13	1.00000
PAH9+H	2.62378e-13	1.000000	2.62379e-13	1.00000
rad13	1.03119e-14	1.000000	1.03119e-14	1.00000
rad30	1.03415e-15	1.000000	1.03416e-15	1.00000
rad38	9.17815e-16	1.000000	9.17819e-16	1.00000
rad28	2.55506e-16	1.000000	2.55507e-16	1.00000
rad33	2.03089e-17	1.000000	2.03090e-17	1.00000
rad26	8.90463e-18	1.000000	8.90467e-18	1.00000
rad20	1.69952e-18	1.000000	1.69953e-18	1.00000
rad21	1.06229e-18	1.000000	1.06229e-18	1.00000
rad15	9.42528e-20	1.000000	9.42532e-20	1.00000
PhCHCCH2+H	3.31541e-20	1.000000	3.31542e-20	1.00000
rad18	8.02518e-21	1.000000	8.02522e-21	1.00000
rad27	2.15748e-21	1.000000	2.15749e-21	1.00000
PhCCH+CH3	1.19058e-21	1.000000	1.19058e-21	1.00000
rad31	1.13453e-21	1.000000	1.13454e-21	1.00000
rad22	5.53763e-22	1.000000	5.53766e-22	1.00000
PhCCCH3+H	1.70824e-22	1.000000	1.70825e-22	1.00000
rad23	1.24360e-22	1.000000	1.24361e-22	1.00000
rad45	5.56195e-25	1.000000	5.56198e-25	1.00000
rad25	1.05600e-25	1.000000	1.05600e-25	1.00000
rad24	4.21177e-26	1.000000	4.21178e-26	1.00000
rad36	3.45371e-26	1.000000	3.45372e-26	1.00000
rad14	7.87773e-27	1.000000	7.87777e-27	1.00000
rad46	1.48954e-27	1.000000	1.48955e-27	1.00000
rad8	1.93522e-30	1.000000	1.93523e-30	1.00000
rad9	6.39739e-33	1.000000	6.39741e-33	1.00000
PAH7+H	9.36414e-34	1.000000	9.36418e-34	1.00000
Ph+MeAc	1.13683e-34	1.000000	1.13683e-34	1.00000
rad12	3.90851e-35	1.000000	3.90852e-35	1.00000
rad39	2.17871e-36	1.000000	2.17872e-36	1.00000
Ph+Allene	5.91993e-39	1.000000	5.91995e-39	1.00000
rad60syn	5.17230e-43	1.000000	5.17233e-43	1.00000
rad60anti	5.87915e-45	1.000000	5.87917e-45	1.00000
PhCH2CCH+H	1.32457e-46	1.000000	1.32457e-46	1.00000
rad37	1.62965e-47	1.000000	1.62965e-47	1.00000
rad5	1.16159e-50	1.000000	1.16159e-50	1.00000
PAH3+H	1.72762e-55	1.000000	1.72762e-55	1.00000
rad59	9.22859e-56	1.000000	9.22864e-56	1.00000
rad50	3.77464e-56	1.000000	3.77466e-56	1.00000
rad19syn	2.53098e-64	1.000000	2.53099e-64	1.00000
rad52	3.69968e-68	1.000000	3.69970e-68	1.00000
PAH10+CH3	1.32746e-68	1.000000	1.32746e-68	1.00000
rad54	3.84737e-69	1.000000	3.84739e-69	1.00000
rad43	3.14762e-69	1.000000	3.14763e-69	1.00000
rad62	7.98133e-72	1.000000	7.98137e-72	1.00000
rad51	3.66669e-75	1.000000	3.66670e-75	1.00000
rad70	3.96452e-78	1.000000	3.96454e-78	1.00000
PhcycC3H3_A+H	1.76560e-78	1.000000	1.76560e-78	1.00000
rad55	9.45158e-79	1.000000	9.45162e-79	1.00000
rad65	3.95802e-80	1.000000	3.95804e-80	1.00000
rad58	6.20407e-82	1.000000	6.20410e-82	1.00000
PAH1+H	1.37134e-83	1.000000	1.37134e-83	1.00000
rad34	1.01335e-85	1.000000	1.01336e-85	1.00000

rad42	1.48394e-88	1.000000	1.48394e-88	1.00000
rad41	6.92941e-89	1.000000	6.92944e-89	1.00000
rad47	9.05008e-98	1.000000	9.05012e-98	1.00000

0.100000000E-08 Pa, 80.0000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	7.28864e-49 (1.00)	7.28860e-49 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999994	0.999994	1.00000	1.00000
Benzyl+C2H2	6.25424e-06	1.00000	0.00000	1.00000
rad6	1.88411e-08	1.00000	1.88412e-08	1.00000
rad2	1.71521e-11	1.00000	1.71522e-11	1.00000
rad35	3.84767e-12	1.00000	3.84770e-12	1.00000
rad7	1.36625e-12	1.00000	1.36626e-12	1.00000
rad1	1.09610e-12	1.00000	1.09611e-12	1.00000
rad10	1.05864e-12	1.00000	1.05865e-12	1.00000
PAH9+H	7.64129e-13	1.00000	7.64133e-13	1.00000
rad11	3.36178e-13	1.00000	3.36180e-13	1.00000
rad3	8.81141e-14	1.00000	8.81146e-14	1.00000
rad4	4.46752e-14	1.00000	4.46754e-14	1.00000
rad30	1.51675e-14	1.00000	1.51676e-14	1.00000
rad13	7.61958e-15	1.00000	7.61962e-15	1.00000
rad38	5.80877e-15	1.00000	5.80880e-15	1.00000
rad28	2.37234e-15	1.00000	2.37236e-15	1.00000
rad26	1.02315e-16	1.00000	1.02315e-16	1.00000
rad33	1.50916e-17	1.00000	1.50917e-17	1.00000
rad15	4.85065e-18	1.00000	4.85068e-18	1.00000
PhCHCCH2+H	3.08560e-18	1.00000	3.08562e-18	1.00000
rad20	1.41021e-18	1.00000	1.41022e-18	1.00000
rad21	8.82120e-19	1.00000	8.82125e-19	1.00000
PhCCH+CH3	2.11522e-19	1.00000	2.11524e-19	1.00000
PhCCCH3+H	3.80034e-20	1.00000	3.80037e-20	1.00000
rad27	1.31014e-20	1.00000	1.31014e-20	1.00000
rad18	6.66184e-21	1.00000	6.66189e-21	1.00000
rad31	9.13767e-22	1.00000	9.13773e-22	1.00000
rad22	4.58345e-22	1.00000	4.58348e-22	1.00000
rad23	1.04672e-22	1.00000	1.04673e-22	1.00000
rad25	2.86927e-24	1.00000	2.86929e-24	1.00000
rad45	1.10122e-24	1.00000	1.10122e-24	1.00000
rad46	4.58854e-25	1.00000	4.58857e-25	1.00000
rad8	3.70059e-25	1.00000	3.70061e-25	1.00000
rad14	3.28440e-25	1.00000	3.28442e-25	1.00000
rad36	6.83449e-26	1.00000	6.83453e-26	1.00000
rad24	3.73644e-26	1.00000	3.73646e-26	1.00000
rad9	2.18158e-31	1.00000	2.18159e-31	1.00000
PAH7+H	3.58499e-32	1.00000	3.58501e-32	1.00000
Ph+MeAc	4.02209e-33	1.00000	4.02211e-33	1.00000
rad12	1.40043e-33	1.00000	1.40044e-33	1.00000
rad39	8.45294e-35	1.00000	8.45300e-35	1.00000
Ph+Allene	2.23396e-37	1.00000	2.23398e-37	1.00000
rad60syn	1.93361e-41	1.00000	1.93362e-41	1.00000
rad60anti	2.26242e-43	1.00000	2.26243e-43	1.00000
PhCH2CCH+H	5.62037e-45	1.00000	5.62041e-45	1.00000
rad37	7.92408e-46	1.00000	7.92413e-46	1.00000
rad5	5.82574e-49	1.00000	5.82577e-49	1.00000
PAH3+H	8.00399e-54	1.00000	8.00404e-54	1.00000
rad59	4.27101e-54	1.00000	4.27104e-54	1.00000
rad50	1.85030e-54	1.00000	1.85031e-54	1.00000
rad19syn	1.61487e-62	1.00000	1.61488e-62	1.00000
rad52	3.23522e-66	1.00000	3.23524e-66	1.00000
PAH10+CH3	2.32300e-66	1.00000	2.32302e-66	1.00000
rad43	5.50924e-67	1.00000	5.50928e-67	1.00000
rad54	3.05094e-67	1.00000	3.05096e-67	1.00000
rad62	1.55237e-69	1.00000	1.55238e-69	1.00000
rad51	5.91225e-73	1.00000	5.91229e-73	1.00000
rad70	6.10292e-76	1.00000	6.10295e-76	1.00000
PhcycC3H3_A+H	2.87044e-76	1.00000	2.87046e-76	1.00000
rad55	1.52456e-76	1.00000	1.52457e-76	1.00000
rad65	9.09182e-78	1.00000	9.09187e-78	1.00000
rad58	1.05731e-79	1.00000	1.05731e-79	1.00000
PAH1+H	3.94843e-81	1.00000	3.94845e-81	1.00000
rad34	3.17708e-83	1.00000	3.17710e-83	1.00000
rad42	9.30510e-86	1.00000	9.30515e-86	1.00000
rad41	4.57718e-86	1.00000	4.57720e-86	1.00000
rad47	2.95408e-95	1.00000	2.95410e-95	1.00000

0.100000000E-08 Pa, 90.0000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 6.85154e-45 (1.00) 6.85148e-45 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999992	0.999992	1.00000	1.00000
Benzyl+C2H2	8.45244e-06	1.00000	0.00000	1.00000
rad6	1.42698e-08	1.00000	1.42699e-08	1.00000
rad2	1.54297e-11	1.00000	1.54298e-11	1.00000
rad35	6.25600e-12	1.00000	6.25606e-12	1.00000
PAH9+H	1.77828e-12	1.00000	1.77830e-12	1.00000
rad10	1.25241e-12	1.00000	1.25242e-12	1.00000
rad7	1.03628e-12	1.00000	1.03629e-12	1.00000
rad1	9.88990e-13	1.00000	9.88998e-13	1.00000
rad11	2.55219e-13	1.00000	2.55221e-13	1.00000
rad30	1.20961e-13	1.00000	1.20962e-13	1.00000
rad3	5.99856e-14	1.00000	5.99861e-14	1.00000
rad4	3.04341e-14	1.00000	3.04344e-14	1.00000
rad38	2.43293e-14	1.00000	2.43295e-14	1.00000
rad28	1.26903e-14	1.00000	1.26904e-14	1.00000
rad13	5.78425e-15	1.00000	5.78430e-15	1.00000
rad26	6.46004e-16	1.00000	6.46009e-16	1.00000
PhCHCCH2+H	1.07312e-16	1.00000	1.07313e-16	1.00000
rad15	1.02394e-16	1.00000	1.02394e-16	1.00000
PhCCH+CH3	1.20906e-17	1.00000	1.20907e-17	1.00000
rad33	1.15228e-17	1.00000	1.15229e-17	1.00000
PhCCCH3+H	2.55892e-18	1.00000	2.55894e-18	1.00000
rad20	1.19301e-18	1.00000	1.19302e-18	1.00000
rad21	7.46878e-19	1.00000	7.46884e-19	1.00000
rad27	5.04605e-20	1.00000	5.04609e-20	1.00000
rad18	5.63582e-21	1.00000	5.63587e-21	1.00000
rad31	7.91304e-22	1.00000	7.91311e-22	1.00000
rad22	3.86478e-22	1.00000	3.86481e-22	1.00000
rad8	1.12459e-22	1.00000	1.12460e-22	1.00000
rad23	9.07237e-23	1.00000	9.07245e-23	1.00000
rad46	3.75433e-23	1.00000	3.75436e-23	1.00000
rad25	3.54068e-23	1.00000	3.54071e-23	1.00000
rad14	5.65327e-24	1.00000	5.65332e-24	1.00000
rad9	1.25533e-24	1.00000	1.25534e-24	1.00000
PAH7+H	2.14352e-25	1.00000	2.14354e-25	1.00000
rad45	1.84987e-25	1.00000	1.84988e-25	1.00000
rad24	3.39397e-26	1.00000	3.39400e-26	1.00000
rad36	1.14702e-26	1.00000	1.14703e-26	1.00000
rad12	7.47438e-27	1.00000	7.47444e-27	1.00000
Ph+MeAc	1.86930e-27	1.00000	1.86932e-27	1.00000
rad39	1.66955e-32	1.00000	1.66957e-32	1.00000
Ph+Allene	4.49668e-35	1.00000	4.49672e-35	1.00000
rad60syn	3.85537e-39	1.00000	3.85540e-39	1.00000
rad60anti	4.64303e-41	1.00000	4.64307e-41	1.00000
PhCH2CCH+H	1.26612e-42	1.00000	1.26613e-42	1.00000
rad37	1.71242e-43	1.00000	1.71244e-43	1.00000
rad5	1.27414e-46	1.00000	1.27415e-46	1.00000
PAH3+H	1.94833e-51	1.00000	1.94834e-51	1.00000
rad59	1.03866e-51	1.00000	1.03867e-51	1.00000
rad50	4.62760e-52	1.00000	4.62764e-52	1.00000
rad19syn	5.25506e-60	1.00000	5.25511e-60	1.00000
rad52	1.41391e-63	1.00000	1.41393e-63	1.00000
PAH10+CH3	1.26859e-63	1.00000	1.26860e-63	1.00000
rad43	3.00997e-64	1.00000	3.01000e-64	1.00000
rad54	1.24666e-64	1.00000	1.24667e-64	1.00000
rad62	9.83091e-67	1.00000	9.83099e-67	1.00000
rad51	4.41131e-70	1.00000	4.41135e-70	1.00000
rad70	4.82854e-73	1.00000	4.82858e-73	1.00000
PhcycC3H3_A+H	2.38653e-73	1.00000	2.38655e-73	1.00000
rad55	1.25690e-73	1.00000	1.25691e-73	1.00000
rad65	9.02275e-75	1.00000	9.02283e-75	1.00000
rad58	9.15820e-77	1.00000	9.15827e-77	1.00000
PAH1+H	5.19131e-78	1.00000	5.19136e-78	1.00000
rad34	4.56408e-80	1.00000	4.56412e-80	1.00000
rad42	1.73072e-82	1.00000	1.73074e-82	1.00000
rad41	8.81752e-83	1.00000	8.81759e-83	1.00000
rad47	3.79673e-92	1.00000	3.79676e-92	1.00000

0.100000000E-08 Pa, 100.000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 1.02671e-41 (1.00) 1.02670e-41 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999989	0.999989	1.00000	1.00000
Benzyl+C2H2	1.12964e-05	1.00000	0.00000	1.00000
rad6	1.10205e-08	1.00000	1.10206e-08	1.00000
rad35	9.46413e-12	1.00000	9.46424e-12	1.00000
rad2	4.56597e-12	1.00000	4.56602e-12	1.00000
PAH9+H	3.55837e-12	1.00000	3.55841e-12	1.00000
rad7	8.01557e-13	1.00000	8.01566e-13	1.00000
rad10	6.92256e-13	1.00000	6.92264e-13	1.00000
rad30	6.32704e-13	1.00000	6.32711e-13	1.00000
rad1	2.93641e-13	1.00000	2.93645e-13	1.00000
rad11	1.97593e-13	1.00000	1.97596e-13	1.00000
rad38	7.69632e-14	1.00000	7.69641e-14	1.00000
rad28	4.62233e-14	1.00000	4.62238e-14	1.00000
rad3	1.22193e-14	1.00000	1.22194e-14	1.00000
rad4	6.20480e-15	1.00000	6.20487e-15	1.00000
rad13	4.47814e-15	1.00000	4.47819e-15	1.00000
rad26	2.68674e-15	1.00000	2.68677e-15	1.00000
PhCHCCH2+H	1.87562e-15	1.00000	1.87564e-15	1.00000
rad15	1.16430e-15	1.00000	1.16431e-15	1.00000
PhCCH+CH3	3.13505e-16	1.00000	3.13508e-16	1.00000
PhCCCH3+H	7.52938e-17	1.00000	7.52947e-17	1.00000
rad33	8.97406e-18	1.00000	8.97416e-18	1.00000
rad20	1.02397e-18	1.00000	1.02398e-18	1.00000
rad21	6.41639e-19	1.00000	6.41646e-19	1.00000
rad27	1.41564e-19	1.00000	1.41565e-19	1.00000
rad8	7.87562e-21	1.00000	7.87571e-21	1.00000
rad18	4.83498e-21	1.00000	4.83503e-21	1.00000
rad46	1.26406e-21	1.00000	1.26408e-21	1.00000
rad31	6.70040e-22	1.00000	6.70048e-22	1.00000
rad22	3.30342e-22	1.00000	3.30346e-22	1.00000
rad25	2.51833e-22	1.00000	2.51836e-22	1.00000
rad9	1.71417e-22	1.00000	1.71419e-22	1.00000
rad23	8.01527e-23	1.00000	8.01536e-23	1.00000
rad14	5.24582e-23	1.00000	5.24588e-23	1.00000
PAH7+H	4.58314e-23	1.00000	4.58319e-23	1.00000
Ph+MeAc	1.57467e-23	1.00000	1.57469e-23	1.00000
rad12	2.81368e-24	1.00000	2.81372e-24	1.00000
rad39	3.50284e-25	1.00000	3.50288e-25	1.00000
rad45	1.87985e-25	1.00000	1.87987e-25	1.00000
rad24	3.13961e-26	1.00000	3.13965e-26	1.00000
rad36	1.16521e-26	1.00000	1.16522e-26	1.00000
Ph+Allene	1.51006e-32	1.00000	1.51007e-32	1.00000
rad60syn	1.28184e-36	1.00000	1.28186e-36	1.00000
rad60anti	1.59069e-38	1.00000	1.59071e-38	1.00000
PhCH2CCH+H	4.77479e-40	1.00000	4.77484e-40	1.00000
rad37	6.17942e-41	1.00000	6.17949e-41	1.00000
rad5	4.63845e-44	1.00000	4.63850e-44	1.00000
PAH3+H	7.93665e-49	1.00000	7.93674e-49	1.00000
rad59	4.22698e-49	1.00000	4.22703e-49	1.00000
rad50	1.88798e-49	1.00000	1.88800e-49	1.00000
rad19syn	2.90597e-57	1.00000	2.90600e-57	1.00000
PAH10+CH3	1.11894e-60	1.00000	1.11895e-60	1.00000
rad52	1.01500e-60	1.00000	1.01501e-60	1.00000
rad43	2.65661e-61	1.00000	2.65664e-61	1.00000
rad54	9.00020e-62	1.00000	9.00030e-62	1.00000
rad62	1.01430e-63	1.00000	1.01431e-63	1.00000
rad51	5.25904e-67	1.00000	5.25910e-67	1.00000
rad70	6.96271e-70	1.00000	6.96279e-70	1.00000
PhcycC3H3_A+H	3.61315e-70	1.00000	3.61319e-70	1.00000
rad55	1.88446e-70	1.00000	1.88448e-70	1.00000
rad65	1.40412e-71	1.00000	1.40414e-71	1.00000
rad58	1.44058e-73	1.00000	1.44060e-73	1.00000
PAH1+H	1.21721e-74	1.00000	1.21723e-74	1.00000
rad34	1.18099e-76	1.00000	1.18101e-76	1.00000
rad42	5.27581e-79	1.00000	5.27587e-79	1.00000
rad41	2.77323e-79	1.00000	2.77326e-79	1.00000
rad47	7.58433e-89	1.00000	7.58442e-89	1.00000

0.100000000E-08 Pa, 110.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	4.04932e-39 (1.00)	4.04926e-39 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
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Indene+H	0.999985	0.999985	1.00000	1.00000
Benzyl+C2H2	1.49726e-05	1.000000	0.00000	1.00000
rad6	8.63539e-09	1.000000	8.63552e-09	1.00000
rad35	1.36724e-11	1.000000	1.36726e-11	1.00000
rad2	7.89015e-12	1.000000	7.89027e-12	1.00000
PAH9+H	6.41653e-12	1.000000	6.41663e-12	1.00000
rad3	4.19476e-12	1.000000	4.19483e-12	1.00000
rad30	2.44539e-12	1.000000	2.44543e-12	1.00000
rad4	2.13202e-12	1.000000	2.13205e-12	1.00000
rad7	6.29100e-13	1.000000	6.29110e-13	1.00000
rad10	5.96662e-13	1.000000	5.96671e-13	1.00000
rad1	5.09284e-13	1.000000	5.09292e-13	1.00000
rad38	2.00047e-13	1.000000	2.00050e-13	1.00000
rad11	1.55228e-13	1.000000	1.55230e-13	1.00000
rad28	1.27486e-13	1.000000	1.27488e-13	1.00000
PhCHCCH2+H	1.99048e-14	1.000000	1.99051e-14	1.00000
rad15	8.47756e-15	1.000000	8.47769e-15	1.00000
rad26	8.25952e-15	1.000000	8.25965e-15	1.00000
PhCCH+CH3	4.58427e-15	1.000000	4.58434e-15	1.00000
rad13	3.51806e-15	1.000000	3.51811e-15	1.00000
PhCCCH3+H	1.21659e-15	1.000000	1.21661e-15	1.00000
rad33	7.09356e-18	1.000000	7.09367e-18	1.00000
rad20	8.88697e-19	1.000000	8.88710e-19	1.00000
rad21	5.57427e-19	1.000000	5.57435e-19	1.00000
rad27	3.15833e-19	1.000000	3.15838e-19	1.00000
rad8	2.54404e-19	1.000000	2.54408e-19	1.00000
rad46	2.24507e-20	1.000000	2.24510e-20	1.00000
rad9	8.70677e-21	1.000000	8.70691e-21	1.00000
rad18	4.19194e-21	1.000000	4.19200e-21	1.00000
PAH7+H	2.76439e-21	1.000000	2.76443e-21	1.00000
Ph+MeAc	1.76859e-21	1.000000	1.76862e-21	1.00000
rad25	1.20151e-21	1.000000	1.20153e-21	1.00000
rad31	6.03087e-22	1.000000	6.03096e-22	1.00000
rad14	3.11026e-22	1.000000	3.11031e-22	1.00000
rad22	2.85241e-22	1.000000	2.85245e-22	1.00000
rad12	1.91644e-22	1.000000	1.91647e-22	1.00000
rad23	7.26012e-23	1.000000	7.26023e-23	1.00000
rad39	3.70378e-23	1.000000	3.70383e-23	1.00000
Ph+Allene	1.91198e-24	1.000000	1.91201e-24	1.00000
rad45	4.13507e-25	1.000000	4.13513e-25	1.00000
rad24	2.94690e-26	1.000000	2.94695e-26	1.00000
rad60syn	2.70844e-26	1.000000	2.70848e-26	1.00000
rad36	2.56258e-26	1.000000	2.56261e-26	1.00000
rad60anti	1.02857e-27	1.000000	1.02859e-27	1.00000
PhCH2CCH+H	4.17194e-37	1.000000	4.17201e-37	1.00000
rad37	4.93841e-38	1.000000	4.93849e-38	1.00000
rad5	3.65842e-41	1.000000	3.65848e-41	1.00000
PAH3+H	7.43007e-46	1.000000	7.43018e-46	1.00000
rad59	3.95433e-46	1.000000	3.95439e-46	1.00000
rad50	1.66627e-46	1.000000	1.66630e-46	1.00000
rad19syn	3.14632e-54	1.000000	3.14636e-54	1.00000
PAH10+CH3	1.43132e-57	1.000000	1.43134e-57	1.00000
rad52	1.25355e-57	1.000000	1.25357e-57	1.00000
rad43	3.40004e-58	1.000000	3.40010e-58	1.00000
rad54	1.13774e-58	1.000000	1.13775e-58	1.00000
rad62	1.51919e-60	1.000000	1.51922e-60	1.00000
rad51	1.00808e-63	1.000000	1.00810e-63	1.00000
rad70	1.54168e-66	1.000000	1.54170e-66	1.00000
PhcycC3H3_A+H	8.37487e-67	1.000000	8.37499e-67	1.00000
rad55	4.32053e-67	1.000000	4.32060e-67	1.00000
rad65	3.45999e-68	1.000000	3.46005e-68	1.00000
rad58	3.45957e-70	1.000000	3.45962e-70	1.00000
PAH1+H	4.32736e-71	1.000000	4.32743e-71	1.00000
rad34	4.69795e-73	1.000000	4.69802e-73	1.00000
rad42	2.32680e-75	1.000000	2.32683e-75	1.00000
rad41	1.25502e-75	1.000000	1.25503e-75	1.00000
rad47	2.40259e-85	1.000000	2.40263e-85	1.00000

0.100000000E-08 Pa, 120.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.87106e-37 (1.00)	5.87094e-37 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999980	0.999980	1.00000	1.00000
Benzyl+C2H2	1.97209e-05	1.000000	0.00000	1.00000
rad6	6.84079e-09	1.000000	6.84092e-09	1.00000
rad35	1.91833e-11	1.000000	1.91836e-11	1.00000

PAH9+H	1.07591e-11	1.000000	1.07594e-11	1.00000
rad2	8.95611e-12	1.000000	8.95628e-12	1.00000
rad30	7.56113e-12	1.000000	7.56127e-12	1.00000
rad3	6.58899e-13	1.000000	6.58912e-13	1.00000
rad1	5.80505e-13	1.000000	5.80516e-13	1.00000
rad7	4.99205e-13	1.000000	4.99215e-13	1.00000
rad38	4.51816e-13	1.000000	4.51824e-13	1.00000
rad10	3.76081e-13	1.000000	3.76088e-13	1.00000
rad4	3.35286e-13	1.000000	3.35293e-13	1.00000
rad28	2.85668e-13	1.000000	2.85674e-13	1.00000
PhCHCCH2+H	1.45464e-13	1.000000	1.45466e-13	1.00000
rad11	1.23297e-13	1.000000	1.23300e-13	1.00000
rad15	4.43409e-14	1.000000	4.43418e-14	1.00000
PhCCH+CH3	4.36751e-14	1.000000	4.36760e-14	1.00000
rad26	2.02593e-14	1.000000	2.02597e-14	1.00000
PhCCCH3+H	1.25532e-14	1.000000	1.25534e-14	1.00000
rad13	2.79451e-15	1.000000	2.79457e-15	1.00000
rad33	5.67084e-18	1.000000	5.67095e-18	1.00000
rad8	4.62044e-18	1.000000	4.62053e-18	1.00000
rad20	7.78021e-19	1.000000	7.78036e-19	1.00000
rad27	5.93929e-19	1.000000	5.93941e-19	1.00000
rad21	4.88531e-19	1.000000	4.88541e-19	1.00000
rad46	2.47624e-19	1.000000	2.47629e-19	1.00000
rad9	2.29246e-19	1.000000	2.29250e-19	1.00000
PAH7+H	8.24701e-20	1.000000	8.24717e-20	1.00000
Ph+MeAc	7.42090e-20	1.000000	7.42105e-20	1.00000
rad12	6.23451e-21	1.000000	6.23464e-21	1.00000
rad25	4.25291e-21	1.000000	4.25299e-21	1.00000
rad18	3.66393e-21	1.000000	3.66401e-21	1.00000
rad39	1.51574e-21	1.000000	1.51577e-21	1.00000
rad14	1.31912e-21	1.000000	1.31915e-21	1.00000
rad31	5.25280e-22	1.000000	5.25290e-22	1.00000
rad22	2.48192e-22	1.000000	2.48197e-22	1.00000
Ph+Allene	1.55527e-22	1.000000	1.55530e-22	1.00000
rad23	6.68834e-23	1.000000	6.68847e-23	1.00000
rad60syn	1.65778e-24	1.000000	1.65782e-24	1.00000
rad45	1.29751e-24	1.000000	1.29754e-24	1.00000
rad60anti	9.96798e-26	1.000000	9.96818e-26	1.00000
rad36	8.03879e-26	1.000000	8.03894e-26	1.00000
rad24	2.79937e-26	1.000000	2.79943e-26	1.00000
PhCH2CCH+H	2.55816e-34	1.000000	2.55821e-34	1.00000
rad37	2.91984e-35	1.000000	2.91990e-35	1.00000
rad5	2.15289e-38	1.000000	2.15293e-38	1.00000
PAH3+H	4.91009e-43	1.000000	4.91019e-43	1.00000
rad59	2.61101e-43	1.000000	2.61106e-43	1.00000
rad50	1.03657e-43	1.000000	1.03659e-43	1.00000
rad19syn	2.38123e-51	1.000000	2.38128e-51	1.00000
PAH10+CH3	1.24197e-54	1.000000	1.24199e-54	1.00000
rad52	1.02181e-54	1.000000	1.02183e-54	1.00000
rad43	2.95230e-55	1.000000	2.95236e-55	1.00000
rad54	9.87318e-56	1.000000	9.87338e-56	1.00000
rad62	1.54427e-57	1.000000	1.54430e-57	1.00000
rad51	1.27538e-60	1.000000	1.27541e-60	1.00000
rad70	2.36629e-63	1.000000	2.36634e-63	1.00000
PhcycC3H3_A+H	1.35062e-63	1.000000	1.35065e-63	1.00000
rad55	6.87304e-64	1.000000	6.87318e-64	1.00000
rad65	5.64248e-65	1.000000	5.64259e-65	1.00000
rad58	5.78813e-67	1.000000	5.78825e-67	1.00000
PAH1+H	1.11121e-67	1.000000	1.11123e-67	1.00000
rad34	1.38116e-69	1.000000	1.38118e-69	1.00000
rad42	7.09167e-72	1.000000	7.09181e-72	1.00000
rad41	3.88407e-72	1.000000	3.88415e-72	1.00000
rad47	5.09842e-82	1.000000	5.09852e-82	1.00000

0.100000000E-08 Pa, 130.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.94360e-35 (1.00)	3.94350e-35 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999974	0.999974	1.00000	1.00000
Benzyl+C2H2	2.58461e-05	1.000000	0.00000	1.00000
rad6	5.46424e-09	1.000000	5.46438e-09	1.00000
rad2	3.02297e-11	1.000000	3.02305e-11	1.00000
rad35	2.64326e-11	1.000000	2.64333e-11	1.00000
rad30	1.97587e-11	1.000000	1.97592e-11	1.00000
PAH9+H	1.71417e-11	1.000000	1.71421e-11	1.00000
rad3	2.87180e-12	1.000000	2.87188e-12	1.00000

rad1	1.96770e-12	1.000000	1.96775e-12	1.00000
rad4	1.46302e-12	1.000000	1.46306e-12	1.00000
rad38	9.21166e-13	1.000000	9.21190e-13	1.00000
rad10	8.31411e-13	1.000000	8.31433e-13	1.00000
PhCHCCH2+H	7.98558e-13	1.000000	7.98579e-13	1.00000
rad28	5.45882e-13	1.000000	5.45897e-13	1.00000
rad7	3.99453e-13	1.000000	3.99464e-13	1.00000
PhCCH+CH3	2.99554e-13	1.000000	2.99562e-13	1.00000
rad15	1.80343e-13	1.000000	1.80347e-13	1.00000
rad11	9.87592e-14	1.000000	9.87617e-14	1.00000
PhCCCH3+H	9.18043e-14	1.000000	9.18066e-14	1.00000
rad26	4.17922e-14	1.000000	4.17933e-14	1.00000
rad13	2.23853e-15	1.000000	2.23859e-15	1.00000
rad8	5.39528e-17	1.000000	5.39542e-17	1.00000
rad33	4.57309e-18	1.000000	4.57321e-18	1.00000
rad9	3.66951e-18	1.000000	3.66961e-18	1.00000
rad46	1.89879e-18	1.000000	1.89884e-18	1.00000
Ph+MeAc	1.77041e-18	1.000000	1.77045e-18	1.00000
PAH7+H	1.45556e-18	1.000000	1.45560e-18	1.00000
rad27	9.79828e-19	1.000000	9.79853e-19	1.00000
rad20	6.85849e-19	1.000000	6.85866e-19	1.00000
rad21	4.31156e-19	1.000000	4.31167e-19	1.00000
rad12	1.18343e-19	1.000000	1.18346e-19	1.00000
rad39	3.50986e-20	1.000000	3.50995e-20	1.00000
rad25	1.19716e-20	1.000000	1.19719e-20	1.00000
Ph+Allene	5.85932e-21	1.000000	5.85947e-21	1.00000
rad14	4.32608e-21	1.000000	4.32619e-21	1.00000
rad18	3.22254e-21	1.000000	3.22262e-21	1.00000
rad31	5.00526e-22	1.000000	5.00538e-22	1.00000
rad22	2.17214e-22	1.000000	2.17219e-22	1.00000
rad23	6.36142e-23	1.000000	6.36158e-23	1.00000
rad60syn	5.24603e-23	1.000000	5.24617e-23	1.00000
rad60anti	4.01382e-24	1.000000	4.01392e-24	1.00000
rad45	3.72978e-25	1.000000	3.72988e-25	1.00000
PhCH2CCH+H	1.64592e-25	1.000000	1.64596e-25	1.00000
rad37	3.40646e-26	1.000000	3.40655e-26	1.00000
rad24	2.68631e-26	1.000000	2.68638e-26	1.00000
rad36	2.31166e-26	1.000000	2.31172e-26	1.00000
rad5	1.70893e-35	1.000000	1.70898e-35	1.00000
PAH3+H	4.27232e-40	1.000000	4.27243e-40	1.00000
rad59	2.26986e-40	1.000000	2.26991e-40	1.00000
rad50	8.46822e-41	1.000000	8.46844e-41	1.00000
rad19syn	2.17174e-48	1.000000	2.17180e-48	1.00000
PAH10+CH3	9.32404e-52	1.000000	9.32428e-52	1.00000
rad52	8.26512e-52	1.000000	8.26533e-52	1.00000
rad43	2.21753e-52	1.000000	2.21759e-52	1.00000
rad54	8.67909e-53	1.000000	8.67932e-53	1.00000
rad62	1.35000e-54	1.000000	1.35003e-54	1.00000
rad51	1.51057e-57	1.000000	1.51061e-57	1.00000
rad70	3.12334e-60	1.000000	3.12342e-60	1.00000
PhcycC3H3_A+H	1.87300e-60	1.000000	1.87305e-60	1.00000
rad55	9.38175e-61	1.000000	9.38199e-61	1.00000
rad65	8.59859e-62	1.000000	8.59881e-62	1.00000
rad58	8.32627e-64	1.000000	8.32648e-64	1.00000
PAH1+H	2.46337e-64	1.000000	2.46343e-64	1.00000
rad34	3.51992e-66	1.000000	3.52001e-66	1.00000
rad42	1.85845e-68	1.000000	1.85850e-68	1.00000
rad41	1.02311e-68	1.000000	1.02313e-68	1.00000
rad47	1.01706e-78	1.000000	1.01709e-78	1.00000

0.100000000E-08 Pa, 140.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.44756e-33 (1.00)	1.44751e-33 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999966	0.999966	1.00000	1.00000
Benzyl+C2H2	3.37324e-05	1.000000	0.00000	1.00000
rad6	4.39223e-09	1.000000	4.39238e-09	1.00000
rad2	6.22414e-11	1.000000	6.22435e-11	1.00000
rad30	4.53773e-11	1.000000	4.53788e-11	1.00000
rad35	3.60275e-11	1.000000	3.60287e-11	1.00000
PAH9+H	2.63418e-11	1.000000	2.63427e-11	1.00000
rad1	4.07027e-12	1.000000	4.07040e-12	1.00000
PhCHCCH2+H	3.50364e-12	1.000000	3.50376e-12	1.00000
rad38	1.74091e-12	1.000000	1.74097e-12	1.00000
PhCCH+CH3	1.58811e-12	1.000000	1.58817e-12	1.00000
rad28	9.20695e-13	1.000000	9.20726e-13	1.00000

rad3	8.20403e-13	1.000000	8.20430e-13	1.000000
rad15	6.03455e-13	1.000000	6.03475e-13	1.000000
rad10	5.18359e-13	1.000000	5.18376e-13	1.000000
PhCCCH3+H	5.12530e-13	1.000000	5.12547e-13	1.000000
rad4	4.18560e-13	1.000000	4.18574e-13	1.000000
rad7	3.21672e-13	1.000000	3.21682e-13	1.000000
rad11	7.96116e-14	1.000000	7.96143e-14	1.000000
rad26	7.52663e-14	1.000000	7.52689e-14	1.000000
rad13	1.80470e-15	1.000000	1.80476e-15	1.000000
rad8	4.45606e-16	1.000000	4.45621e-16	1.000000
rad9	3.97531e-17	1.000000	3.97545e-17	1.000000
Ph+MeAc	2.71368e-17	1.000000	2.71377e-17	1.000000
PAH7+H	1.70359e-17	1.000000	1.70365e-17	1.000000
rad46	1.09715e-17	1.000000	1.09719e-17	1.000000
rad33	3.71279e-18	1.000000	3.71291e-18	1.000000
rad12	1.47311e-18	1.000000	1.47316e-18	1.000000
rad27	1.45886e-18	1.000000	1.45891e-18	1.000000
rad20	6.07975e-19	1.000000	6.07995e-19	1.000000
rad39	5.20787e-19	1.000000	5.20804e-19	1.000000
rad21	3.82681e-19	1.000000	3.82694e-19	1.000000
Ph+Allene	1.30388e-19	1.000000	1.30393e-19	1.000000
rad25	2.81563e-20	1.000000	2.81573e-20	1.000000
rad14	1.15955e-20	1.000000	1.15959e-20	1.000000
rad18	2.84816e-21	1.000000	2.84826e-21	1.000000
rad60syn	1.00452e-21	1.000000	1.00456e-21	1.000000
rad31	4.40581e-22	1.000000	4.40596e-22	1.000000
rad22	1.90942e-22	1.000000	1.90949e-22	1.000000
rad60anti	9.33602e-23	1.000000	9.33634e-23	1.000000
rad23	6.14911e-23	1.000000	6.14932e-23	1.000000
PhCH2CCH+H	1.18693e-23	1.000000	1.18697e-23	1.000000
rad37	3.38835e-24	1.000000	3.38846e-24	1.000000
rad45	1.85921e-25	1.000000	1.85927e-25	1.000000
rad24	2.60055e-26	1.000000	2.60064e-26	1.000000
rad36	1.15268e-26	1.000000	1.15272e-26	1.000000
rad5	6.97172e-27	1.000000	6.97195e-27	1.000000
PAH3+H	1.15604e-28	1.000000	1.15608e-28	1.000000
rad59	5.78020e-29	1.000000	5.78040e-29	1.000000
rad50	7.59925e-30	1.000000	7.59951e-30	1.000000
rad19syn	1.46660e-45	1.000000	1.46665e-45	1.000000
rad52	4.36609e-49	1.000000	4.36623e-49	1.000000
PAH10+CH3	4.36082e-49	1.000000	4.36096e-49	1.000000
rad43	1.03733e-49	1.000000	1.03736e-49	1.000000
rad54	5.32695e-50	1.000000	5.32712e-50	1.000000
rad62	7.28932e-52	1.000000	7.28957e-52	1.000000
rad51	1.10700e-54	1.000000	1.10704e-54	1.000000
rad70	2.52072e-57	1.000000	2.52080e-57	1.000000
PhcycC3H3_A+H	1.58944e-57	1.000000	1.58949e-57	1.000000
rad55	7.81783e-58	1.000000	7.81809e-58	1.000000
rad65	8.14333e-59	1.000000	8.14360e-59	1.000000
rad58	7.33100e-61	1.000000	7.33125e-61	1.000000
PAH1+H	3.34204e-61	1.000000	3.34215e-61	1.000000
rad34	5.48113e-63	1.000000	5.48132e-63	1.000000
rad42	3.01462e-65	1.000000	3.01472e-65	1.000000
rad41	1.65091e-65	1.000000	1.65096e-65	1.000000
rad47	1.27344e-75	1.000000	1.27348e-75	1.000000

0.100000000E-08 Pa, 150.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.27736e-32 (1.00)	3.27722e-32 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999956	0.999956	1.00000	1.00000
Benzyl+C2H2	4.38587e-05	1.000000	0.00000	1.00000
rad6	3.54735e-09	1.000000	3.54751e-09	1.00000
rad30	9.42303e-11	1.000000	9.42345e-11	1.00000
rad35	4.87935e-11	1.000000	4.87956e-11	1.00000
PAH9+H	3.94532e-11	1.000000	3.94549e-11	1.00000
rad2	1.67320e-11	1.000000	1.67327e-11	1.00000
PhCHCCH2+H	1.28544e-11	1.000000	1.28550e-11	1.00000
PhCCH+CH3	6.85551e-12	1.000000	6.85581e-12	1.00000
rad38	3.10719e-12	1.000000	3.10733e-12	1.00000
PhCCCH3+H	2.30627e-12	1.000000	2.30637e-12	1.00000
rad15	1.73107e-12	1.000000	1.73115e-12	1.00000
rad28	1.40540e-12	1.000000	1.40546e-12	1.00000
rad1	1.10009e-12	1.000000	1.10014e-12	1.00000
rad10	3.41450e-13	1.000000	3.41465e-13	1.00000
rad7	2.60286e-13	1.000000	2.60297e-13	1.00000

rad3	2.09344e-13	1.000000	2.09354e-13	1.00000
rad26	1.21613e-13	1.000000	1.21618e-13	1.00000
rad4	1.06963e-13	1.000000	1.06968e-13	1.00000
rad11	6.44885e-14	1.000000	6.44914e-14	1.00000
rad8	2.79170e-15	1.000000	2.79182e-15	1.00000
rad13	1.46205e-15	1.000000	1.46212e-15	1.00000
rad9	3.15310e-16	1.000000	3.15324e-16	1.00000
Ph+MeAc	2.92028e-16	1.000000	2.92040e-16	1.00000
PAH7+H	1.43747e-16	1.000000	1.43753e-16	1.00000
rad46	5.06729e-17	1.000000	5.06751e-17	1.00000
rad12	1.30972e-17	1.000000	1.30978e-17	1.00000
rad39	5.41970e-18	1.000000	5.41994e-18	1.00000
rad33	3.03017e-18	1.000000	3.03031e-18	1.00000
rad27	2.00122e-18	1.000000	2.00131e-18	1.00000
Ph+Allene	1.93213e-18	1.000000	1.93221e-18	1.00000
rad20	5.41405e-19	1.000000	5.41429e-19	1.00000
rad21	3.41241e-19	1.000000	3.41256e-19	1.00000
rad25	5.73621e-20	1.000000	5.73646e-20	1.00000
rad14	2.64515e-20	1.000000	2.64527e-20	1.00000
rad60syn	1.29362e-20	1.000000	1.29368e-20	1.00000
rad18	2.52690e-21	1.000000	2.52701e-21	1.00000
rad60anti	1.42014e-21	1.000000	1.42020e-21	1.00000
rad31	3.93434e-22	1.000000	3.93451e-22	1.00000
PhCH2CCH+H	3.70705e-22	1.000000	3.70721e-22	1.00000
rad22	1.68407e-22	1.000000	1.68415e-22	1.00000
rad37	1.02531e-22	1.000000	1.02535e-22	1.00000
rad23	6.16177e-23	1.000000	6.16204e-23	1.00000
rad45	2.21833e-24	1.000000	2.21843e-24	1.00000
rad5	3.31296e-25	1.000000	3.31311e-25	1.00000
rad36	1.37577e-25	1.000000	1.37583e-25	1.00000
rad24	2.53725e-26	1.000000	2.53736e-26	1.00000
PAH3+H	1.81874e-26	1.000000	1.81882e-26	1.00000
rad59	8.19792e-27	1.000000	8.19828e-27	1.00000
rad50	5.49371e-28	1.000000	5.49395e-28	1.00000
rad19syn	2.97402e-42	1.000000	2.97415e-42	1.00000
rad52	5.08446e-46	1.000000	5.08468e-46	1.00000
PAH10+CH3	2.77463e-46	1.000000	2.77475e-46	1.00000
rad54	8.65297e-47	1.000000	8.65335e-47	1.00000
rad43	6.57134e-47	1.000000	6.57163e-47	1.00000
rad62	4.99916e-49	1.000000	4.99938e-49	1.00000
rad51	1.15983e-51	1.000000	1.15988e-51	1.00000
rad70	2.34405e-54	1.000000	2.34415e-54	1.00000
PhcycC3H3_A+H	1.51492e-54	1.000000	1.51499e-54	1.00000
rad55	7.36474e-55	1.000000	7.36506e-55	1.00000
rad65	1.07919e-55	1.000000	1.07924e-55	1.00000
rad58	7.17782e-58	1.000000	7.17813e-58	1.00000
PAH1+H	4.37525e-58	1.000000	4.37544e-58	1.00000
rad34	7.85937e-60	1.000000	7.85972e-60	1.00000
rad42	5.31534e-62	1.000000	5.31557e-62	1.00000
rad41	2.97642e-62	1.000000	2.97655e-62	1.00000
rad47	2.22231e-72	1.000000	2.22241e-72	1.00000

0.100000000E-08 Pa, 160.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.01169e-31 (1.00)	5.01140e-31 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999943	0.999943	1.00000	1.00000
Benzyl+C2H2	5.68171e-05	1.000000	0.00000	1.00000
rad6	2.87517e-09	1.000000	2.87533e-09	1.00000
rad30	1.80711e-10	1.000000	1.80721e-10	1.00000
rad35	6.58346e-11	1.000000	6.58384e-11	1.00000
PAH9+H	5.80045e-11	1.000000	5.80077e-11	1.00000
PhCHCCH2+H	4.07935e-11	1.000000	4.07958e-11	1.00000
PhCCH+CH3	2.50511e-11	1.000000	2.50525e-11	1.00000
PhCCCH3+H	8.71109e-12	1.000000	8.71158e-12	1.00000
rad38	5.30696e-12	1.000000	5.30726e-12	1.00000
rad15	4.38965e-12	1.000000	4.38989e-12	1.00000
rad2	2.73502e-12	1.000000	2.73518e-12	1.00000
rad28	1.97820e-12	1.000000	1.97831e-12	1.00000
rad10	2.34401e-13	1.000000	2.34414e-13	1.00000
rad7	2.11376e-13	1.000000	2.11388e-13	1.00000
rad1	1.80791e-13	1.000000	1.80801e-13	1.00000
rad26	1.79913e-13	1.000000	1.79923e-13	1.00000
rad11	5.24293e-14	1.000000	5.24323e-14	1.00000
rad3	4.42712e-14	1.000000	4.42737e-14	1.00000
rad4	2.26500e-14	1.000000	2.26513e-14	1.00000

rad8	1.39809e-14	1.000000	1.39817e-14	1.00000
Ph+MeAc	2.35652e-15	1.000000	2.35665e-15	1.00000
rad9	1.94219e-15	1.000000	1.94230e-15	1.00000
rad13	1.18882e-15	1.000000	1.18889e-15	1.00000
PAH7+H	9.30889e-16	1.000000	9.30942e-16	1.00000
rad46	1.95509e-16	1.000000	1.95521e-16	1.00000
rad12	8.86564e-17	1.000000	8.86614e-17	1.00000
rad39	4.23059e-17	1.000000	4.23083e-17	1.00000
Ph+Allene	2.05972e-17	1.000000	2.05984e-17	1.00000
rad27	2.56842e-18	1.000000	2.56857e-18	1.00000
rad33	2.48318e-18	1.000000	2.48332e-18	1.00000
rad20	4.83952e-19	1.000000	4.83979e-19	1.00000
rad21	3.05473e-19	1.000000	3.05490e-19	1.00000
rad60syn	1.20851e-19	1.000000	1.20858e-19	1.00000
rad25	1.03992e-19	1.000000	1.03998e-19	1.00000
rad14	5.29314e-20	1.000000	5.29344e-20	1.00000
rad60anti	1.53286e-20	1.000000	1.53294e-20	1.00000
PhCH2CCH+H	7.07507e-21	1.000000	7.07547e-21	1.00000
rad18	2.24858e-21	1.000000	2.24871e-21	1.00000
rad37	1.92371e-21	1.000000	1.92382e-21	1.00000
rad31	3.55473e-22	1.000000	3.55493e-22	1.00000
rad22	1.48900e-22	1.000000	1.48909e-22	1.00000
rad23	6.34851e-23	1.000000	6.34887e-23	1.00000
rad5	7.57862e-24	1.000000	7.57905e-24	1.00000
rad45	6.32675e-25	1.000000	6.32711e-25	1.00000
PAH3+H	5.45434e-25	1.000000	5.45465e-25	1.00000
rad59	2.30298e-25	1.000000	2.30311e-25	1.00000
rad36	3.92717e-26	1.000000	3.92739e-26	1.00000
rad24	2.49308e-26	1.000000	2.49323e-26	1.00000
rad50	1.44925e-26	1.000000	1.44934e-26	1.00000
rad19syn	3.66145e-39	1.000000	3.66166e-39	1.00000
rad52	4.66836e-43	1.000000	4.66862e-43	1.00000
PAH10+CH3	1.37430e-43	1.000000	1.37438e-43	1.00000
rad54	1.04657e-43	1.000000	1.04663e-43	1.00000
rad43	3.21717e-44	1.000000	3.21735e-44	1.00000
rad62	2.33467e-46	1.000000	2.33480e-46	1.00000
rad51	6.68076e-49	1.000000	6.68114e-49	1.00000
rad70	1.33435e-51	1.000000	1.33442e-51	1.00000
PhcycC3H3_A+H	8.52143e-52	1.000000	8.52192e-52	1.00000
rad55	4.13517e-52	1.000000	4.13540e-52	1.00000
rad65	7.52093e-53	1.000000	7.52136e-53	1.00000
rad58	4.07351e-55	1.000000	4.07374e-55	1.00000
PAH1+H	2.97695e-55	1.000000	2.97712e-55	1.00000
rad34	5.75685e-57	1.000000	5.75717e-57	1.00000
rad42	4.98169e-59	1.000000	4.98197e-59	1.00000
rad41	2.88106e-59	1.000000	2.88122e-59	1.00000
rad47	2.05177e-69	1.000000	2.05189e-69	1.00000

0.100000000E-08 Pa, 170.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	5.54821e-30 (1.00)	5.54780e-30 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999927	0.999927	1.00000	1.00000
Benzyl+C2H2	7.33330e-05	1.00000	0.00000	1.00000
rad6	2.33641e-09	1.00000	2.33658e-09	1.00000
rad30	3.25169e-10	1.00000	3.25193e-10	1.00000
PhCHCCH2+H	1.14896e-10	1.00000	1.14904e-10	1.00000
rad35	8.86105e-11	1.00000	8.86170e-11	1.00000
PAH9+H	8.41122e-11	1.00000	8.41184e-11	1.00000
PhCCH+CH3	7.98161e-11	1.00000	7.98220e-11	1.00000
PhCCCH3+H	2.84874e-11	1.00000	2.84895e-11	1.00000
rad15	1.00714e-11	1.00000	1.00722e-11	1.00000
rad38	8.75582e-12	1.00000	8.75646e-12	1.00000
rad28	2.60438e-12	1.00000	2.60457e-12	1.00000
rad2	5.45873e-13	1.00000	5.45913e-13	1.00000
rad26	2.47499e-13	1.00000	2.47517e-13	1.00000
rad7	1.72113e-13	1.00000	1.72126e-13	1.00000
rad10	1.66176e-13	1.00000	1.66188e-13	1.00000
rad8	5.82583e-14	1.00000	5.82625e-14	1.00000
rad11	4.27405e-14	1.00000	4.27437e-14	1.00000
rad1	3.63138e-14	1.00000	3.63165e-14	1.00000
Ph+MeAc	1.49962e-14	1.00000	1.49973e-14	1.00000
rad3	1.07883e-14	1.00000	1.07891e-14	1.00000
rad9	9.71811e-15	1.00000	9.71883e-15	1.00000
rad4	5.52806e-15	1.00000	5.52846e-15	1.00000
PAH7+H	4.85298e-15	1.00000	4.85334e-15	1.00000

rad13	9.69283e-16	1.00000	9.69354e-16	1.00000
rad46	6.51676e-16	1.00000	6.51724e-16	1.00000
rad12	4.79737e-16	1.00000	4.79772e-16	1.00000
rad39	2.60729e-16	1.00000	2.60749e-16	1.00000
Ph+Allene	1.67494e-16	1.00000	1.67506e-16	1.00000
rad27	3.12036e-18	1.00000	3.12059e-18	1.00000
rad33	2.04141e-18	1.00000	2.04156e-18	1.00000
rad60syn	8.67681e-19	1.00000	8.67744e-19	1.00000
rad20	4.33979e-19	1.00000	4.34011e-19	1.00000
rad21	2.74359e-19	1.00000	2.74379e-19	1.00000
rad25	1.71246e-19	1.00000	1.71258e-19	1.00000
rad60anti	1.24865e-19	1.00000	1.24875e-19	1.00000
PhCH2CCH+H	9.53114e-20	1.00000	9.53184e-20	1.00000
rad14	9.50806e-20	1.00000	9.50875e-20	1.00000
rad37	2.51871e-20	1.00000	2.51890e-20	1.00000
rad18	2.00562e-21	1.00000	2.00577e-21	1.00000
rad31	3.24434e-22	1.00000	3.24458e-22	1.00000
rad22	1.31892e-22	1.00000	1.31902e-22	1.00000
rad5	1.17217e-22	1.00000	1.17226e-22	1.00000
rad23	6.84664e-23	1.00000	6.84715e-23	1.00000
PAH3+H	1.00146e-23	1.00000	1.00154e-23	1.00000
rad59	4.07844e-24	1.00000	4.07874e-24	1.00000
rad50	2.47924e-25	1.00000	2.47943e-25	1.00000
rad45	2.26957e-25	1.00000	2.26973e-25	1.00000
rad24	2.46586e-26	1.00000	2.46604e-26	1.00000
rad36	1.41157e-26	1.00000	1.41167e-26	1.00000
rad19syn	3.67674e-29	1.00000	3.67701e-29	1.00000
rad52	2.29678e-31	1.00000	2.29695e-31	1.00000
rad54	8.12227e-41	1.00000	8.12287e-41	1.00000
PAH10+CH3	6.62223e-41	1.00000	6.62272e-41	1.00000
rad43	1.53227e-41	1.00000	1.53238e-41	1.00000
rad62	9.67409e-44	1.00000	9.67480e-44	1.00000
rad51	2.43414e-46	1.00000	2.43432e-46	1.00000
rad70	5.74445e-49	1.00000	5.74488e-49	1.00000
PhcycC3H3_A+H	3.41945e-49	1.00000	3.41970e-49	1.00000
rad55	1.68814e-49	1.00000	1.68827e-49	1.00000
rad65	2.93276e-50	1.00000	2.93297e-50	1.00000
rad58	1.58246e-52	1.00000	1.58258e-52	1.00000
PAH1+H	1.12917e-52	1.00000	1.12925e-52	1.00000
rad34	2.29572e-54	1.00000	2.29589e-54	1.00000
rad42	2.62282e-56	1.00000	2.62302e-56	1.00000
rad41	1.58287e-56	1.00000	1.58299e-56	1.00000
rad47	1.04851e-66	1.00000	1.04858e-66	1.00000

0.100000000E-08 Pa, 180.000000 K

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

Total | 4.69315e-29 (1.00) | 4.69271e-29 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999906	0.999906	1.00000	1.00000
Benzyl+C2H2	9.42883e-05	1.00000	0.00000	1.00000
rad6	1.90209e-09	1.00000	1.90227e-09	1.00000
rad30	5.55653e-10	1.00000	5.55706e-10	1.00000
PhCHCCH2+H	2.92977e-10	1.00000	2.93005e-10	1.00000
PhCCH+CH3	2.26865e-10	1.00000	2.26887e-10	1.00000
PAH9+H	1.20677e-10	1.00000	1.20689e-10	1.00000
rad35	1.19033e-10	1.00000	1.19045e-10	1.00000
PhCCCH3+H	8.26172e-11	1.00000	8.26250e-11	1.00000
rad15	2.12854e-11	1.00000	2.12874e-11	1.00000
rad38	1.40492e-11	1.00000	1.40505e-11	1.00000
rad28	3.24250e-12	1.00000	3.24281e-12	1.00000
rad26	3.20416e-13	1.00000	3.20446e-13	1.00000
rad2	2.54470e-13	1.00000	2.54494e-13	1.00000
rad8	2.08378e-13	1.00000	2.08398e-13	1.00000
rad7	1.40410e-13	1.00000	1.40424e-13	1.00000
rad10	1.20876e-13	1.00000	1.20887e-13	1.00000
Ph+MeAc	7.82677e-14	1.00000	7.82751e-14	1.00000
rad9	4.09073e-14	1.00000	4.09111e-14	1.00000
rad11	3.49102e-14	1.00000	3.49135e-14	1.00000
PAH7+H	2.11366e-14	1.00000	2.11385e-14	1.00000
rad1	1.70366e-14	1.00000	1.70383e-14	1.00000
rad3	4.42831e-15	1.00000	4.42873e-15	1.00000
rad4	2.27348e-15	1.00000	2.27369e-15	1.00000
rad12	2.15519e-15	1.00000	2.15539e-15	1.00000
rad46	1.92593e-15	1.00000	1.92612e-15	1.00000
rad39	1.32011e-15	1.00000	1.32024e-15	1.00000
Ph+Allene	1.08715e-15	1.00000	1.08726e-15	1.00000

rad13	7.91845e-16	1.00000	7.91920e-16	1.00000
rad60syn	5.00699e-18	1.00000	5.00746e-18	1.00000
rad27	3.62105e-18	1.00000	3.62139e-18	1.00000
rad33	1.68238e-18	1.00000	1.68254e-18	1.00000
PhCH2CCH+H	9.66855e-19	1.00000	9.66946e-19	1.00000
rad60anti	8.05149e-19	1.00000	8.05224e-19	1.00000
rad20	3.90237e-19	1.00000	3.90274e-19	1.00000
rad25	2.60252e-19	1.00000	2.60277e-19	1.00000
rad21	2.47121e-19	1.00000	2.47144e-19	1.00000
rad37	2.45037e-19	1.00000	2.45060e-19	1.00000
rad14	1.56082e-19	1.00000	1.56097e-19	1.00000
rad18	1.79224e-21	1.00000	1.79241e-21	1.00000
rad5	1.33540e-21	1.00000	1.33553e-21	1.00000
rad31	2.98790e-22	1.00000	2.98818e-22	1.00000
PAH3+H	1.31623e-22	1.00000	1.31635e-22	1.00000
rad22	1.16979e-22	1.00000	1.16990e-22	1.00000
rad23	7.72360e-23	1.00000	7.72433e-23	1.00000
rad59	5.19690e-23	1.00000	5.19739e-23	1.00000
rad50	3.08696e-24	1.00000	3.08725e-24	1.00000
rad45	2.35765e-25	1.00000	2.35787e-25	1.00000
rad24	2.45420e-26	1.00000	2.45443e-26	1.00000
rad36	1.46817e-26	1.00000	1.46831e-26	1.00000
rad19syn	4.66138e-27	1.00000	4.66182e-27	1.00000
rad52	1.37731e-29	1.00000	1.37744e-29	1.00000
rad54	8.06868e-38	1.00000	8.06944e-38	1.00000
PAH10+CH3	5.46501e-38	1.00000	5.46553e-38	1.00000
rad43	1.25902e-38	1.00000	1.25914e-38	1.00000
rad62	7.19411e-41	1.00000	7.19479e-41	1.00000
rad51	1.15313e-43	1.00000	1.15324e-43	1.00000
rad70	3.98152e-46	1.00000	3.98189e-46	1.00000
PhcycC3H3_A+H	2.07642e-46	1.00000	2.07662e-46	1.00000
rad55	1.07056e-46	1.00000	1.07066e-46	1.00000
rad65	9.17372e-48	1.00000	9.17458e-48	1.00000
rad58	8.58338e-50	1.00000	8.58419e-50	1.00000
PAH1+H	2.99042e-50	1.00000	2.99070e-50	1.00000
rad34	5.91558e-52	1.00000	5.91614e-52	1.00000
rad42	9.21761e-54	1.00000	9.21848e-54	1.00000
rad41	5.89569e-54	1.00000	5.89625e-54	1.00000
rad47	3.85148e-64	1.00000	3.85184e-64	1.00000

0.100000000E-08 Pa, 190.000000 K

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

Total | 3.16530e-28 (1.00) | 3.16492e-28 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999879	0.999879	1.00000	1.00000
Benzyl+C2H2	0.000120746	1.00000	0.00000	1.00000
rad6	1.55042e-09	1.00000	1.55060e-09	1.00000
rad30	9.10077e-10	1.00000	9.10187e-10	1.00000
PhCHCCH2+H	6.86993e-10	1.00000	6.87076e-10	1.00000
PhCCH+CH3	5.85668e-10	1.00000	5.85739e-10	1.00000
PhCCCH3+H	2.16530e-10	1.00000	2.16556e-10	1.00000
PAH9+H	1.71637e-10	1.00000	1.71658e-10	1.00000
rad35	1.59590e-10	1.00000	1.59609e-10	1.00000
rad15	4.20213e-11	1.00000	4.20264e-11	1.00000
rad38	2.20307e-11	1.00000	2.20334e-11	1.00000
rad28	3.85087e-12	1.00000	3.85133e-12	1.00000
rad2	1.07517e-12	1.00000	1.07530e-12	1.00000
rad8	6.55652e-13	1.00000	6.55732e-13	1.00000
rad26	3.94076e-13	1.00000	3.94123e-13	1.00000
Ph+MeAc	3.45557e-13	1.00000	3.45599e-13	1.00000
rad9	1.48911e-13	1.00000	1.48929e-13	1.00000
rad7	1.14696e-13	1.00000	1.14710e-13	1.00000
rad10	8.97950e-14	1.00000	8.98059e-14	1.00000
PAH7+H	7.91873e-14	1.00000	7.91968e-14	1.00000
rad1	7.25073e-14	1.00000	7.25160e-14	1.00000
rad11	2.85530e-14	1.00000	2.85564e-14	1.00000
rad12	8.28119e-15	1.00000	8.28219e-15	1.00000
Ph+Allene	5.83724e-15	1.00000	5.83795e-15	1.00000
rad39	5.66591e-15	1.00000	5.66659e-15	1.00000
rad46	5.15013e-15	1.00000	5.15075e-15	1.00000
rad3	1.48700e-15	1.00000	1.48718e-15	1.00000
rad4	7.64823e-16	1.00000	7.64916e-16	1.00000
rad13	6.47775e-16	1.00000	6.47853e-16	1.00000
rad60syn	2.40561e-17	1.00000	2.40590e-17	1.00000
PhCH2CCH+H	7.73355e-18	1.00000	7.73449e-18	1.00000
rad60anti	4.26710e-18	1.00000	4.26761e-18	1.00000

rad27	4.04242e-18	1.000000	4.04291e-18	1.00000
rad37	1.85740e-18	1.000000	1.85763e-18	1.00000
rad33	1.38916e-18	1.000000	1.38933e-18	1.00000
rad25	3.69633e-19	1.000000	3.69677e-19	1.00000
rad20	3.51755e-19	1.000000	3.51798e-19	1.00000
rad14	2.37472e-19	1.000000	2.37501e-19	1.00000
rad21	2.23155e-19	1.000000	2.23182e-19	1.00000
rad5	1.17921e-20	1.000000	1.17936e-20	1.00000
rad18	1.60393e-21	1.000000	1.60412e-21	1.00000
PAH3+H	1.32122e-21	1.000000	1.32138e-21	1.00000
rad59	5.06390e-22	1.000000	5.06451e-22	1.00000
rad31	2.77497e-22	1.000000	2.77530e-22	1.00000
rad22	1.03844e-22	1.000000	1.03857e-22	1.00000
rad23	9.14623e-23	1.000000	9.14733e-23	1.00000
rad50	2.96740e-23	1.000000	2.96776e-23	1.00000
rad45	1.30044e-25	1.000000	1.30059e-25	1.00000
rad19syn	1.22411e-25	1.000000	1.22426e-25	1.00000
rad24	2.45737e-26	1.000000	2.45767e-26	1.00000
rad36	8.11216e-27	1.000000	8.11314e-27	1.00000
rad54	5.45682e-28	1.000000	5.45748e-28	1.00000
PAH10+CH3	3.67387e-28	1.000000	3.67432e-28	1.00000
rad52	3.13061e-28	1.000000	3.13098e-28	1.00000
rad43	8.93613e-29	1.000000	8.93721e-29	1.00000
rad62	4.15621e-30	1.000000	4.15672e-30	1.00000
rad51	2.56194e-31	1.000000	2.56225e-31	1.00000
rad70	7.96539e-43	1.000000	7.96635e-43	1.00000
PhcycC3H3_A+H	3.95378e-43	1.000000	3.95425e-43	1.00000
rad55	2.07908e-43	1.000000	2.07933e-43	1.00000
rad65	5.51260e-45	1.000000	5.51327e-45	1.00000
rad58	1.52825e-46	1.000000	1.52844e-46	1.00000
PAH1+H	1.34032e-47	1.000000	1.34048e-47	1.00000
rad34	1.87868e-49	1.000000	1.87890e-49	1.00000
rad42	2.99124e-51	1.000000	2.99160e-51	1.00000
rad41	2.03940e-51	1.000000	2.03965e-51	1.00000
rad47	1.45209e-61	1.000000	1.45227e-61	1.00000

0.100000000E-08 Pa, 200.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.76115e-27 (1.00)	1.76088e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999846	0.999846	1.00000	1.00000
Benzyl+C2H2	0.000153979	1.000000	0.00000	1.00000
PhCHCCH2+H	1.49982e-09	1.000000	1.50005e-09	1.00000
rad30	1.43889e-09	1.000000	1.43911e-09	1.00000
PhCCH+CH3	1.39294e-09	1.000000	1.39315e-09	1.00000
rad6	1.26471e-09	1.000000	1.26491e-09	1.00000
PhCCCH3+H	5.20618e-10	1.000000	5.20698e-10	1.00000
PAH9+H	2.42288e-10	1.000000	2.42326e-10	1.00000
rad35	2.13493e-10	1.000000	2.13525e-10	1.00000
rad15	7.83498e-11	1.000000	7.83619e-11	1.00000
rad38	3.38822e-11	1.000000	3.38874e-11	1.00000
rad28	4.39278e-12	1.000000	4.39346e-12	1.00000
rad8	1.85064e-12	1.000000	1.85092e-12	1.00000
Ph+MeAc	1.32297e-12	1.000000	1.32317e-12	1.00000
rad9	4.79212e-13	1.000000	4.79286e-13	1.00000
rad26	4.63913e-13	1.000000	4.63985e-13	1.00000
rad2	3.79032e-13	1.000000	3.79090e-13	1.00000
PAH7+H	2.61207e-13	1.000000	2.61247e-13	1.00000
rad7	9.37671e-14	1.000000	9.37815e-14	1.00000
rad10	6.78872e-14	1.000000	6.78976e-14	1.00000
rad12	2.78701e-14	1.000000	2.78744e-14	1.00000
Ph+Allene	2.66782e-14	1.000000	2.66824e-14	1.00000
rad1	2.57642e-14	1.000000	2.57682e-14	1.00000
rad11	2.33739e-14	1.000000	2.33775e-14	1.00000
rad39	2.11360e-14	1.000000	2.11392e-14	1.00000
rad46	1.26631e-14	1.000000	1.26650e-14	1.00000
rad3	1.95316e-15	1.000000	1.95346e-15	1.00000
rad4	1.00724e-15	1.000000	1.00739e-15	1.00000
rad13	5.30390e-16	1.000000	5.30472e-16	1.00000
rad60syn	9.89774e-17	1.000000	9.89927e-17	1.00000
PhCH2CCH+H	5.05404e-17	1.000000	5.05482e-17	1.00000
rad60anti	1.91539e-17	1.000000	1.91569e-17	1.00000
rad37	1.13915e-17	1.000000	1.13933e-17	1.00000
rad27	4.36603e-18	1.000000	4.36671e-18	1.00000
rad33	1.14877e-18	1.000000	1.14895e-18	1.00000
rad25	4.95558e-19	1.000000	4.95634e-19	1.00000

rad14	3.38656e-19	1.000000	3.38708e-19	1.00000
rad20	3.17763e-19	1.000000	3.17812e-19	1.00000
rad21	2.01982e-19	1.000000	2.02013e-19	1.00000
rad5	8.38252e-20	1.000000	8.38382e-20	1.00000
PAH3+H	1.05456e-20	1.000000	1.05472e-20	1.00000
rad59	3.92886e-21	1.000000	3.92946e-21	1.00000
rad18	1.43711e-21	1.000000	1.43733e-21	1.00000
rad31	2.59800e-22	1.000000	2.59840e-22	1.00000
rad50	2.28898e-22	1.000000	2.28933e-22	1.00000
rad23	1.13760e-22	1.000000	1.13777e-22	1.00000
rad22	9.22379e-23	1.000000	9.22521e-23	1.00000
rad19syn	1.82537e-24	1.000000	1.82565e-24	1.00000
rad45	1.69259e-24	1.000000	1.69285e-24	1.00000
rad36	1.05826e-25	1.000000	1.05842e-25	1.00000
rad24	2.47519e-26	1.000000	2.47557e-26	1.00000
rad54	1.37160e-26	1.000000	1.37181e-26	1.00000
PAH10+CH3	9.40146e-27	1.000000	9.40291e-27	1.00000
rad52	4.44081e-27	1.000000	4.44149e-27	1.00000
rad43	2.30283e-27	1.000000	2.30318e-27	1.00000
rad62	2.68736e-28	1.000000	2.68777e-28	1.00000
rad51	1.45636e-29	1.000000	1.45659e-29	1.00000
rad65	1.67715e-32	1.000000	1.67740e-32	1.00000
rad70	1.91803e-39	1.000000	1.91832e-39	1.00000
PhcycC3H3_A+H	9.56230e-40	1.000000	9.56377e-40	1.00000
rad55	5.03071e-40	1.000000	5.03149e-40	1.00000
rad58	3.68356e-43	1.000000	3.68412e-43	1.00000
PAH1+H	2.10568e-44	1.000000	2.10601e-44	1.00000
rad34	2.01370e-46	1.000000	2.01401e-46	1.00000
rad42	6.99851e-49	1.000000	6.99959e-49	1.00000
rad41	4.82529e-49	1.000000	4.82603e-49	1.00000
rad47	4.79946e-59	1.000000	4.80020e-59	1.00000

0.100000000E-08 Pa, 210.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.30956e-27 (1.00)	8.30794e-27 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999804	0.999804	1.00000	1.00000
Benzyl+C2H2	0.000195497	0.999999	0.00000	1.00000
PhCCH+CH3	3.08729e-09	1.000000	3.08789e-09	1.00000
PhCHCCH2+H	3.07900e-09	1.000000	3.07960e-09	1.00000
rad30	2.20830e-09	1.000000	2.20873e-09	1.00000
PhCCCH3+H	1.16232e-09	1.000000	1.16254e-09	1.00000
rad6	1.03204e-09	1.000000	1.03224e-09	1.00000
PAH9+H	3.39692e-10	1.000000	3.39759e-10	1.00000
rad35	2.84863e-10	1.000000	2.84918e-10	1.00000
rad15	1.39185e-10	1.000000	1.39212e-10	1.00000
rad38	5.12411e-11	1.000000	5.12511e-11	1.00000
rad28	4.84001e-12	1.000000	4.84095e-12	1.00000
rad8	4.76045e-12	1.000000	4.76138e-12	1.00000
Ph+MeAc	4.48106e-12	1.000000	4.48194e-12	1.00000
rad9	1.38783e-12	1.000000	1.38810e-12	1.00000
PAH7+H	7.72989e-13	1.000000	7.73140e-13	1.00000
rad26	5.25928e-13	1.000000	5.26031e-13	1.00000
rad2	2.30548e-13	1.000000	2.30593e-13	1.00000
Ph+Allene	1.06213e-13	1.000000	1.06234e-13	1.00000
rad12	8.37414e-14	1.000000	8.37578e-14	1.00000
rad7	7.66911e-14	1.000000	7.67061e-14	1.00000
rad39	6.99261e-14	1.000000	6.99398e-14	1.00000
rad10	5.20940e-14	1.000000	5.21041e-14	1.00000
rad46	2.89984e-14	1.000000	2.90041e-14	1.00000
rad11	1.91438e-14	1.000000	1.91476e-14	1.00000
rad1	1.58008e-14	1.000000	1.58039e-14	1.00000
rad3	1.05031e-15	1.000000	1.05051e-15	1.00000
rad4	5.42799e-16	1.000000	5.42905e-16	1.00000
rad13	4.34502e-16	1.000000	4.34587e-16	1.00000
rad60syn	3.56772e-16	1.000000	3.56842e-16	1.00000
PhCH2CCH+H	2.77797e-16	1.000000	2.77851e-16	1.00000
rad60anti	7.46103e-17	1.000000	7.46249e-17	1.00000
rad37	5.82816e-17	1.000000	5.82930e-17	1.00000
rad27	4.58313e-18	1.000000	4.58402e-18	1.00000
rad33	9.51113e-19	1.000000	9.51299e-19	1.00000
rad25	6.32241e-19	1.000000	6.32365e-19	1.00000
rad5	4.94773e-19	1.000000	4.94870e-19	1.00000
rad14	4.56817e-19	1.000000	4.56907e-19	1.00000
rad20	2.87641e-19	1.000000	2.87697e-19	1.00000
rad21	1.83217e-19	1.000000	1.83253e-19	1.00000

PAH3+H	6.92409e-20	1.000000	6.92544e-20	1.00000
rad59	2.51009e-20	1.000000	2.51058e-20	1.00000
rad50	1.46375e-21	1.000000	1.46404e-21	1.00000
rad18	1.28890e-21	1.000000	1.28915e-21	1.00000
rad31	2.45147e-22	1.000000	2.45195e-22	1.00000
rad23	1.48041e-22	1.000000	1.48069e-22	1.00000
rad22	8.19572e-23	1.000000	8.19732e-23	1.00000
rad19syn	2.00818e-23	1.000000	2.00857e-23	1.00000
rad45	1.11082e-24	1.000000	1.11104e-24	1.00000
rad54	1.94322e-25	1.000000	1.94360e-25	1.00000
PAH10+CH3	1.33349e-25	1.000000	1.33375e-25	1.00000
rad36	6.95515e-26	1.000000	6.95651e-26	1.00000
rad52	4.73526e-26	1.000000	4.73619e-26	1.00000
rad43	3.24699e-26	1.000000	3.24763e-26	1.00000
rad24	2.50794e-26	1.000000	2.50843e-26	1.00000
rad62	4.87675e-27	1.000000	4.87770e-27	1.00000
rad51	2.76098e-28	1.000000	2.76152e-28	1.00000
rad70	4.15017e-29	1.000000	4.15098e-29	1.00000
PhcycC3H3_A+H	3.67776e-29	1.000000	3.67848e-29	1.00000
rad55	1.45178e-29	1.000000	1.45206e-29	1.00000
rad58	1.88404e-30	1.000000	1.88441e-30	1.00000
rad65	8.86433e-31	1.000000	8.86607e-31	1.00000
PAH1+H	5.49758e-41	1.000000	5.49865e-41	1.00000
rad34	5.07923e-43	1.000000	5.08023e-43	1.00000
rad42	2.00301e-46	1.000000	2.00340e-46	1.00000
rad41	9.12517e-47	1.000000	9.12696e-47	1.00000
rad47	4.20713e-56	1.000000	4.20795e-56	1.00000

0.100000000E-08 Pa, 220.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.40057e-26 (1.00)	3.39973e-26 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999753	0.999753	1.00000	1.00000
Benzyl+CH2	0.000247078	1.00000	0.00000	1.00000
PhCCH+CH3	6.43602e-09	1.00000	6.43761e-09	1.00000
PhCHCCH2+H	5.99187e-09	1.00000	5.99335e-09	1.00000
rad30	3.30405e-09	1.00000	3.30486e-09	1.00000
PhCCCH3+H	2.43334e-09	1.00000	2.43394e-09	1.00000
rad6	8.42233e-10	1.00000	8.42441e-10	1.00000
PAH9+H	4.73189e-10	1.00000	4.73306e-10	1.00000
rad35	3.78956e-10	1.00000	3.79049e-10	1.00000
rad15	2.37238e-10	1.00000	2.37297e-10	1.00000
rad38	7.63518e-11	1.00000	7.63707e-11	1.00000
Ph+MeAc	1.36499e-11	1.00000	1.36533e-11	1.00000
rad8	1.13040e-11	1.00000	1.13068e-11	1.00000
rad28	5.17439e-12	1.00000	5.17567e-12	1.00000
rad9	3.66996e-12	1.00000	3.67087e-12	1.00000
PAH7+H	2.08381e-12	1.00000	2.08433e-12	1.00000
rad26	5.77042e-13	1.00000	5.77185e-13	1.00000
Ph+Allene	3.75387e-13	1.00000	3.75480e-13	1.00000
rad12	2.28179e-13	1.00000	2.28235e-13	1.00000
rad39	2.08582e-13	1.00000	2.08634e-13	1.00000
rad2	9.43761e-14	1.00000	9.43994e-14	1.00000
rad7	6.27337e-14	1.00000	6.27492e-14	1.00000
rad46	6.24893e-14	1.00000	6.25047e-14	1.00000
rad10	4.04908e-14	1.00000	4.05008e-14	1.00000
rad11	1.56826e-14	1.00000	1.56864e-14	1.00000
rad1	6.52804e-15	1.00000	6.52965e-15	1.00000
PhCH2CCH+H	1.31497e-15	1.00000	1.31529e-15	1.00000
rad60syn	1.14776e-15	1.00000	1.14805e-15	1.00000
rad3	4.84379e-16	1.00000	4.84499e-16	1.00000
rad13	3.56030e-16	1.00000	3.56117e-16	1.00000
rad60anti	2.57261e-16	1.00000	2.57324e-16	1.00000
rad37	2.55043e-16	1.00000	2.55106e-16	1.00000
rad4	2.50963e-16	1.00000	2.51025e-16	1.00000
rad27	4.69347e-18	1.00000	4.69463e-18	1.00000
rad5	2.48677e-18	1.00000	2.48738e-18	1.00000
rad33	7.88218e-19	1.00000	7.88413e-19	1.00000
rad25	7.72702e-19	1.00000	7.72893e-19	1.00000
rad14	5.87214e-19	1.00000	5.87359e-19	1.00000
PAH3+H	3.84313e-19	1.00000	3.84408e-19	1.00000
rad20	2.60883e-19	1.00000	2.60947e-19	1.00000
rad21	1.66546e-19	1.00000	1.66587e-19	1.00000
rad59	1.35685e-19	1.00000	1.35719e-19	1.00000
rad50	7.96594e-21	1.00000	7.96790e-21	1.00000
rad18	1.15695e-21	1.00000	1.15723e-21	1.00000

rad31	2.33127e-22	1.00000	2.33185e-22	1.00000
rad23	2.01557e-22	1.00000	2.01607e-22	1.00000
rad19syn	1.76810e-22	1.00000	1.76853e-22	1.00000
rad22	7.28349e-23	1.00000	7.28529e-23	1.00000
rad54	2.07925e-24	1.00000	2.07977e-24	1.00000
rad45	1.88068e-24	1.00000	1.88114e-24	1.00000
PAH10+CH3	1.42538e-24	1.00000	1.42573e-24	1.00000
rad52	4.06722e-25	1.00000	4.06823e-25	1.00000
rad43	3.45425e-25	1.00000	3.45510e-25	1.00000
rad36	1.18126e-25	1.00000	1.18155e-25	1.00000
rad62	5.97333e-26	1.00000	5.97481e-26	1.00000
rad24	2.55638e-26	1.00000	2.55701e-26	1.00000
rad51	3.50353e-27	1.00000	3.50440e-27	1.00000
PhcycC3H3_A+H	9.87085e-28	1.00000	9.87329e-28	1.00000
rad70	8.97428e-28	1.00000	8.97650e-28	1.00000
rad55	3.38159e-28	1.00000	3.38243e-28	1.00000
rad58	5.59629e-29	1.00000	5.59768e-29	1.00000
rad65	1.55276e-29	1.00000	1.55314e-29	1.00000
PAH1+H	3.10930e-30	1.00000	3.11007e-30	1.00000
rad34	2.04140e-40	1.00000	2.04191e-40	1.00000
rad42	4.73510e-44	1.00000	4.73627e-44	1.00000
rad47	1.49504e-44	1.00000	1.49541e-44	1.00000
rad41	1.11523e-44	1.00000	1.11551e-44	1.00000

0.100000000E-08 Pa, 230.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22972e-25 (1.00)	1.22933e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999689	0.999689	1.00000	1.00000
Benzyl+C2H2	0.000310803	1.00000	0.00000	1.00000
PhCCH+CH3	1.27160e-08	1.00000	1.27200e-08	1.00000
PhCHCCH2+H	1.11264e-08	1.00000	1.11299e-08	1.00000
rad30	4.83587e-09	1.00000	4.83738e-09	1.00000
PhCCCH3+H	4.81567e-09	1.00000	4.81717e-09	1.00000
rad6	6.87221e-10	1.00000	6.87435e-10	1.00000
PAH9+H	6.55031e-10	1.00000	6.55235e-10	1.00000
rad35	5.02430e-10	1.00000	5.02586e-10	1.00000
rad15	3.90193e-10	1.00000	3.90314e-10	1.00000
rad38	1.12258e-10	1.00000	1.12293e-10	1.00000
Ph+MeAc	3.79031e-11	1.00000	3.79149e-11	1.00000
rad8	2.50408e-11	1.00000	2.50486e-11	1.00000
rad9	8.96807e-12	1.00000	8.97086e-12	1.00000
rad28	5.38787e-12	1.00000	5.38954e-12	1.00000
PAH7+H	5.18193e-12	1.00000	5.18354e-12	1.00000
Ph+Allene	1.19627e-12	1.00000	1.19664e-12	1.00000
rad26	6.15268e-13	1.00000	6.15459e-13	1.00000
rad12	5.71101e-13	1.00000	5.71279e-13	1.00000
rad39	5.68636e-13	1.00000	5.68813e-13	1.00000
rad46	1.27781e-13	1.00000	1.27821e-13	1.00000
rad7	5.13119e-14	1.00000	5.13279e-14	1.00000
rad10	3.18271e-14	1.00000	3.18370e-14	1.00000
rad2	3.17958e-14	1.00000	3.18057e-14	1.00000
rad11	1.28469e-14	1.00000	1.28509e-14	1.00000
PhCH2CCH+H	5.46598e-15	1.00000	5.46768e-15	1.00000
rad60syn	3.34628e-15	1.00000	3.34732e-15	1.00000
rad1	2.22105e-15	1.00000	2.22174e-15	1.00000
rad37	9.74547e-16	1.00000	9.74850e-16	1.00000
rad60anti	7.98156e-16	1.00000	7.98404e-16	1.00000
rad13	2.91729e-16	1.00000	2.91819e-16	1.00000
rad3	2.65261e-16	1.00000	2.65344e-16	1.00000
rad4	1.37805e-16	1.00000	1.37848e-16	1.00000
rad5	1.08663e-17	1.00000	1.08697e-17	1.00000
rad27	4.70362e-18	1.00000	4.70508e-18	1.00000
PAH3+H	1.84376e-18	1.00000	1.84433e-18	1.00000
rad25	9.09621e-19	1.00000	9.09904e-19	1.00000
rad14	7.23756e-19	1.00000	7.23981e-19	1.00000
rad33	6.53749e-19	1.00000	6.53952e-19	1.00000
rad59	6.34526e-19	1.00000	6.34724e-19	1.00000
rad20	2.37069e-19	1.00000	2.37142e-19	1.00000
rad21	1.51707e-19	1.00000	1.51754e-19	1.00000
rad50	3.76905e-20	1.00000	3.77022e-20	1.00000
rad19syn	1.28690e-21	1.00000	1.28730e-21	1.00000
rad18	1.03928e-21	1.00000	1.03960e-21	1.00000
rad23	2.87142e-22	1.00000	2.87231e-22	1.00000
rad31	2.23435e-22	1.00000	2.23505e-22	1.00000
rad22	6.47313e-23	1.00000	6.47514e-23	1.00000

rad54	1.79674e-23	1.000000	1.79730e-23	1.00000
PAH10+CH3	1.22748e-23	1.000000	1.22786e-23	1.00000
rad43	2.95796e-24	1.000000	2.95888e-24	1.00000
rad52	2.90478e-24	1.000000	2.90569e-24	1.00000
rad45	1.59960e-24	1.000000	1.60010e-24	1.00000
rad62	5.74611e-25	1.000000	5.74789e-25	1.00000
rad36	1.00884e-25	1.000000	1.00915e-25	1.00000
rad51	3.51924e-26	1.000000	3.52033e-26	1.00000
rad24	2.62174e-26	1.000000	2.62255e-26	1.00000
PhcycC3H3_A+H	1.69392e-26	1.000000	1.69445e-26	1.00000
rad70	1.30480e-26	1.000000	1.30521e-26	1.00000
rad55	5.18385e-27	1.000000	5.18546e-27	1.00000
rad58	1.02415e-27	1.000000	1.02446e-27	1.00000
PAH1+H	2.23671e-28	1.000000	2.23740e-28	1.00000
rad65	2.00231e-28	1.000000	2.00293e-28	1.00000
rad34	1.06744e-29	1.000000	1.06777e-29	1.00000
rad42	4.44131e-32	1.000000	4.44269e-32	1.00000
rad41	7.74433e-33	1.000000	7.74674e-33	1.00000
rad47	2.02044e-43	1.000000	2.02107e-43	1.00000

0.1000000000E-08 Pa, 240.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.99091e-25 (1.00)	3.98936e-25 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999611	0.999611	1.00000	1.00000
Benzyl+C2H2	0.000389084	1.00000	0.00000	1.00000
PhCCH+CH3	2.39609e-08	1.00000	2.39702e-08	1.00000
PhCHCCH2+H	1.98219e-08	1.00000	1.98296e-08	1.00000
PhCCCH3+H	9.06949e-09	1.00000	9.07302e-09	1.00000
rad30	6.94255e-09	1.00000	6.94525e-09	1.00000
PAH9+H	9.01165e-10	1.00000	9.01516e-10	1.00000
rad35	6.63661e-10	1.00000	6.63919e-10	1.00000
rad15	6.22131e-10	1.00000	6.22373e-10	1.00000
rad6	5.60550e-10	1.00000	5.60769e-10	1.00000
rad38	1.63045e-10	1.00000	1.63109e-10	1.00000
Ph+MeAc	9.70296e-11	1.00000	9.70673e-11	1.00000
rad8	5.22018e-11	1.00000	5.22221e-11	1.00000
rad9	2.04533e-11	1.00000	2.04612e-11	1.00000
PAH7+H	1.20110e-11	1.00000	1.20157e-11	1.00000
rad28	5.48135e-12	1.00000	5.48349e-12	1.00000
Ph+Allene	3.48222e-12	1.00000	3.48357e-12	1.00000
rad2	1.45640e-12	1.00000	1.45697e-12	1.00000
rad39	1.43288e-12	1.00000	1.43344e-12	1.00000
rad12	1.32700e-12	1.00000	1.32751e-12	1.00000
rad26	6.39716e-13	1.00000	6.39965e-13	1.00000
rad46	2.49645e-13	1.00000	2.49742e-13	1.00000
rad10	1.35811e-13	1.00000	1.35864e-13	1.00000
rad1	1.02869e-13	1.00000	1.02909e-13	1.00000
rad7	4.19587e-14	1.00000	4.19750e-14	1.00000
PhCH2CCH+H	2.02784e-14	1.00000	2.02863e-14	1.00000
rad11	1.05221e-14	1.00000	1.05261e-14	1.00000
rad60syn	8.95436e-15	1.00000	8.95784e-15	1.00000
rad37	3.30811e-15	1.00000	3.30939e-15	1.00000
rad60anti	2.25867e-15	1.00000	2.25955e-15	1.00000
rad13	2.39001e-16	1.00000	2.39094e-16	1.00000
rad5	4.20021e-17	1.00000	4.20184e-17	1.00000
PAH3+H	7.78863e-18	1.00000	7.79166e-18	1.00000
rad27	4.62490e-18	1.00000	4.62670e-18	1.00000
rad59	2.61499e-18	1.00000	2.61601e-18	1.00000
rad25	1.03613e-18	1.00000	1.03653e-18	1.00000
rad14	8.59727e-19	1.00000	8.60062e-19	1.00000
rad33	5.42609e-19	1.00000	5.42820e-19	1.00000
rad20	2.15845e-19	1.00000	2.15929e-19	1.00000
rad50	1.57823e-19	1.00000	1.57885e-19	1.00000
rad21	1.38483e-19	1.00000	1.38536e-19	1.00000
rad19syn	7.93175e-21	1.00000	7.93484e-21	1.00000
rad18	9.34223e-22	1.00000	9.34586e-22	1.00000
rad4	7.77229e-22	1.00000	7.77532e-22	1.00000
rad3	6.24809e-22	1.00000	6.25052e-22	1.00000
rad23	4.34499e-22	1.00000	4.34668e-22	1.00000
rad31	2.25772e-22	1.00000	2.25860e-22	1.00000
rad54	1.28744e-22	1.00000	1.28794e-22	1.00000
PAH10+CH3	8.76232e-23	1.00000	8.76573e-23	1.00000
rad22	5.75278e-23	1.00000	5.75502e-23	1.00000
rad43	2.10010e-23	1.00000	2.10091e-23	1.00000
rad52	1.76521e-23	1.00000	1.76590e-23	1.00000

rad62	4.48334e-24	1.00000	4.48509e-24	1.00000
rad45	1.25252e-24	1.00000	1.25301e-24	1.00000
rad51	2.84575e-25	1.00000	2.84686e-25	1.00000
PhcycC3H3_A+H	1.83497e-25	1.00000	1.83568e-25	1.00000
rad70	1.30436e-25	1.00000	1.30487e-25	1.00000
rad36	7.93626e-26	1.00000	7.93935e-26	1.00000
rad55	5.31871e-26	1.00000	5.32078e-26	1.00000
rad24	2.70575e-26	1.00000	2.70680e-26	1.00000
rad58	1.13976e-26	1.00000	1.14020e-26	1.00000
PAH1+H	3.49023e-27	1.00000	3.49159e-27	1.00000
rad65	1.89688e-27	1.00000	1.89762e-27	1.00000
rad34	2.02063e-28	1.00000	2.02142e-28	1.00000
rad42	2.62674e-30	1.00000	2.62776e-30	1.00000
rad41	7.56115e-31	1.00000	7.56410e-31	1.00000
rad47	1.87587e-42	1.00000	1.87660e-42	1.00000

0.100000000E-08 Pa, 250.000000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	1.17763e-24 (1.00)		1.17706e-24 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Indene+H	0.999515	0.999515	1.00000	1.00000
Benzyl+C2H2	0.000484700	1.000000	0.00000	1.00000
PhCCH+CH3	4.32852e-08	1.000000	4.33062e-08	1.00000
PhCHCCH2+H	3.40319e-08	1.000000	3.40485e-08	1.00000
PhCCCH3+H	1.63454e-08	1.000000	1.63533e-08	1.00000
rad30	9.79760e-09	1.000000	9.80235e-09	1.00000
PAH9+H	1.23218e-09	1.000000	1.23278e-09	1.00000
rad15	9.65237e-10	1.000000	9.65705e-10	1.00000
rad35	8.73119e-10	1.000000	8.73542e-10	1.00000
rad6	4.57010e-10	1.000000	4.57232e-10	1.00000
rad38	2.34143e-10	1.000000	2.34256e-10	1.00000
Ph+MeAc	2.31164e-10	1.000000	2.31276e-10	1.00000
rad8	1.03157e-10	1.000000	1.03207e-10	1.00000
rad9	4.38997e-11	1.000000	4.39210e-11	1.00000
PAH7+H	2.61750e-11	1.000000	2.61877e-11	1.00000
Ph+Allene	9.36019e-12	1.000000	9.36473e-12	1.00000
rad28	5.46290e-12	1.000000	5.46555e-12	1.00000
rad39	3.36908e-12	1.000000	3.37072e-12	1.00000
rad12	2.88803e-12	1.000000	2.88943e-12	1.00000
rad26	6.50475e-13	1.000000	6.50791e-13	1.00000
rad2	6.17398e-13	1.000000	6.17697e-13	1.00000
rad46	4.68609e-13	1.000000	4.68837e-13	1.00000
rad10	9.92117e-14	1.000000	9.92598e-14	1.00000
PhCH2CCH+H	6.80661e-14	1.000000	6.80991e-14	1.00000
rad1	4.41144e-14	1.000000	4.41358e-14	1.00000
rad7	3.42968e-14	1.000000	3.43134e-14	1.00000
rad60syn	2.22273e-14	1.000000	2.22381e-14	1.00000
rad37	1.01211e-14	1.000000	1.01260e-14	1.00000
rad11	8.61522e-15	1.000000	8.61940e-15	1.00000
rad60anti	5.89685e-15	1.000000	5.89971e-15	1.00000
rad13	1.95744e-16	1.000000	1.95839e-16	1.00000
rad5	1.45718e-16	1.000000	1.45789e-16	1.00000
PAH3+H	2.94243e-17	1.000000	2.94386e-17	1.00000
rad59	9.64551e-18	1.000000	9.65019e-18	1.00000
rad27	4.47155e-18	1.000000	4.47371e-18	1.00000
rad25	1.14642e-18	1.000000	1.14698e-18	1.00000
rad14	9.88507e-19	1.000000	9.88986e-19	1.00000
rad50	5.93639e-19	1.000000	5.93927e-19	1.00000
rad33	4.50667e-19	1.000000	4.50886e-19	1.00000
rad20	1.96914e-19	1.000000	1.97009e-19	1.00000
rad21	1.26686e-19	1.000000	1.26748e-19	1.00000
rad19syn	4.22763e-20	1.000000	4.22968e-20	1.00000
rad18	8.40365e-22	1.000000	8.40772e-22	1.00000
rad54	7.86767e-22	1.000000	7.87149e-22	1.00000
rad23	6.68719e-22	1.000000	6.69043e-22	1.00000
PAH10+CH3	5.33110e-22	1.000000	5.33369e-22	1.00000
rad4	3.59129e-22	1.000000	3.59303e-22	1.00000
rad3	2.70941e-22	1.000000	2.71073e-22	1.00000
rad31	2.17807e-22	1.000000	2.17913e-22	1.00000
rad43	1.27026e-22	1.000000	1.27087e-22	1.00000
rad52	9.31755e-23	1.000000	9.32207e-23	1.00000
rad22	5.11225e-23	1.000000	5.11472e-23	1.00000
rad62	2.94966e-23	1.000000	2.95109e-23	1.00000
rad51	1.93290e-24	1.000000	1.93384e-24	1.00000
rad45	1.71791e-24	1.000000	1.71875e-24	1.00000
PhcycC3H3_A+H	1.51485e-24	1.000000	1.51559e-24	1.00000

rad70	1.03242e-24	1.000000	1.03293e-24	1.00000
rad55	4.27163e-25	1.000000	4.27370e-25	1.00000
rad36	1.09421e-25	1.000000	1.09474e-25	1.00000
rad58	9.52951e-26	1.000000	9.53413e-26	1.00000
PAH1+H	3.26070e-26	1.000000	3.26228e-26	1.00000
rad24	2.81072e-26	1.000000	2.81208e-26	1.00000
rad65	1.44854e-26	1.000000	1.44924e-26	1.00000
rad34	1.95407e-27	1.000000	1.95502e-27	1.00000
rad42	2.76646e-29	1.000000	2.76780e-29	1.00000
rad41	8.02597e-30	1.000000	8.02987e-30	1.00000
rad47	1.43631e-41	1.000000	1.43700e-41	1.00000

0.1000000000E-08 Pa, 260.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	3.19452e-24 (1.00)	3.19260e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999399	0.999399	1.00000	1.00000
Benzyl+C2H2	0.000600830	1.000000	0.00000	1.00000
PhCCH+CH3	7.52946e-08	1.000000	7.53399e-08	1.00000
PhCHCCH2+H	5.65223e-08	1.000000	5.65563e-08	1.00000
PhCCCH3+H	2.83216e-08	1.000000	2.83386e-08	1.00000
rad30	1.36157e-08	1.000000	1.36239e-08	1.00000
PAH9+H	1.67445e-09	1.000000	1.67545e-09	1.00000
rad15	1.46180e-09	1.000000	1.46268e-09	1.00000
rad35	1.14380e-09	1.000000	1.14449e-09	1.00000
Ph+MeAc	5.16642e-10	1.000000	5.16953e-10	1.00000
rad6	3.72384e-10	1.000000	3.72608e-10	1.00000
rad38	3.32694e-10	1.000000	3.32894e-10	1.00000
rad8	1.94418e-10	1.000000	1.94535e-10	1.00000
rad9	8.92963e-11	1.000000	8.93500e-11	1.00000
PAH7+H	5.40210e-11	1.000000	5.40535e-11	1.00000
Ph+Allene	2.34476e-11	1.000000	2.34617e-11	1.00000
rad39	7.45075e-12	1.000000	7.45523e-12	1.00000
rad12	5.93128e-12	1.000000	5.93484e-12	1.00000
rad28	5.34569e-12	1.000000	5.34891e-12	1.00000
rad46	8.49081e-13	1.000000	8.49591e-13	1.00000
rad26	6.48428e-13	1.000000	6.48818e-13	1.00000
rad2	2.16085e-13	1.000000	2.16215e-13	1.00000
PhCH2CCH+H	2.09101e-13	1.000000	2.09227e-13	1.00000
rad10	7.38830e-14	1.000000	7.39275e-14	1.00000
rad60syn	5.16426e-14	1.000000	5.16737e-14	1.00000
rad37	2.82533e-14	1.000000	2.82703e-14	1.00000
rad7	2.80204e-14	1.000000	2.80372e-14	1.00000
rad1	1.56235e-14	1.000000	1.56329e-14	1.00000
rad60anti	1.43406e-14	1.000000	1.43492e-14	1.00000
rad11	7.05117e-15	1.000000	7.05541e-15	1.00000
rad5	4.59359e-16	1.000000	4.59635e-16	1.00000
rad13	1.60256e-16	1.000000	1.60352e-16	1.00000
PAH3+H	1.00724e-16	1.000000	1.00784e-16	1.00000
rad59	3.22623e-17	1.000000	3.22817e-17	1.00000
rad27	4.25902e-18	1.000000	4.26158e-18	1.00000
rad50	2.03113e-18	1.000000	2.03235e-18	1.00000
rad25	1.23616e-18	1.000000	1.23691e-18	1.00000
rad14	1.10419e-18	1.000000	1.10485e-18	1.00000
rad33	3.74562e-19	1.000000	3.74787e-19	1.00000
rad19syn	1.98205e-19	1.000000	1.98324e-19	1.00000
rad20	1.80017e-19	1.000000	1.80125e-19	1.00000
rad21	1.16160e-19	1.000000	1.16229e-19	1.00000
rad54	4.18282e-21	1.000000	4.18533e-21	1.00000
PAH10+CH3	2.81840e-21	1.000000	2.82009e-21	1.00000
rad23	1.06284e-21	1.000000	1.06348e-21	1.00000
rad18	7.56471e-22	1.000000	7.56926e-22	1.00000
rad43	6.67188e-22	1.000000	6.67589e-22	1.00000
rad52	4.34411e-22	1.000000	4.34673e-22	1.00000
rad31	2.12270e-22	1.000000	2.12397e-22	1.00000
rad4	1.73856e-22	1.000000	1.73961e-22	1.00000
rad62	1.67395e-22	1.000000	1.67496e-22	1.00000
rad3	1.20919e-22	1.000000	1.20992e-22	1.00000
rad22	4.54267e-23	1.000000	4.54540e-23	1.00000
rad51	1.13377e-23	1.000000	1.13445e-23	1.00000
PhcycC3H3_A+H	1.04989e-23	1.000000	1.05052e-23	1.00000
rad70	6.90237e-24	1.000000	6.90652e-24	1.00000
rad55	2.89213e-24	1.000000	2.89387e-24	1.00000
rad45	2.46945e-24	1.000000	2.47093e-24	1.00000
rad58	6.67420e-25	1.000000	6.67822e-25	1.00000
PAH1+H	2.48959e-25	1.000000	2.49109e-25	1.00000

rad36	1.57872e-25	1.00000	1.57967e-25	1.00000
rad65	9.40613e-26	1.00000	9.41178e-26	1.00000
rad24	2.93964e-26	1.00000	2.94141e-26	1.00000
rad34	1.53045e-26	1.00000	1.53137e-26	1.00000
rad42	2.29633e-28	1.00000	2.29771e-28	1.00000
rad41	6.71432e-29	1.00000	6.71835e-29	1.00000
rad47	9.26851e-41	1.00000	9.27408e-41	1.00000

0.100000000E-08 Pa, 270.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	8.04141e-24 (1.00)	8.03545e-24 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999259	0.999259	1.00000	1.00000
Benzyl+C2H2	0.000741078	1.00000	0.00000	1.00000
PhCCH+CH3	1.26586e-07	1.00000	1.26679e-07	1.00000
PhCHCCH2+H	9.11015e-08	1.00000	9.11690e-08	1.00000
PhCCCH3+H	4.73657e-08	1.00000	4.74008e-08	1.00000
rad30	1.86595e-08	1.00000	1.86734e-08	1.00000
PAH9+H	2.26149e-09	1.00000	2.26317e-09	1.00000
rad15	2.16654e-09	1.00000	2.16815e-09	1.00000
rad35	1.49172e-09	1.00000	1.49282e-09	1.00000
Ph+MeAc	1.09059e-09	1.00000	1.09140e-09	1.00000
rad38	4.68008e-10	1.00000	4.68356e-10	1.00000
rad8	3.51265e-10	1.00000	3.51525e-10	1.00000
rad6	3.03238e-10	1.00000	3.03463e-10	1.00000
rad9	1.73163e-10	1.00000	1.73291e-10	1.00000
PAH7+H	1.06236e-10	1.00000	1.06315e-10	1.00000
Ph+Allene	5.51675e-11	1.00000	5.52085e-11	1.00000
rad39	1.56033e-11	1.00000	1.56149e-11	1.00000
rad12	1.15679e-11	1.00000	1.15765e-11	1.00000
rad28	5.14598e-12	1.00000	5.14980e-12	1.00000
rad46	1.49078e-12	1.00000	1.49189e-12	1.00000
rad26	6.35029e-13	1.00000	6.35500e-13	1.00000
PhCH2CCH+H	5.93698e-13	1.00000	5.94138e-13	1.00000
rad2	2.90325e-13	1.00000	2.90540e-13	1.00000
rad60syn	1.13161e-13	1.00000	1.13245e-13	1.00000
rad37	7.27158e-14	1.00000	7.27698e-14	1.00000
rad10	5.59337e-14	1.00000	5.59752e-14	1.00000
rad60anti	3.27522e-14	1.00000	3.27765e-14	1.00000
rad7	2.28801e-14	1.00000	2.28971e-14	1.00000
rad1	2.12928e-14	1.00000	2.13086e-14	1.00000
rad11	5.76849e-15	1.00000	5.77277e-15	1.00000
rad5	1.32965e-15	1.00000	1.33064e-15	1.00000
PAH3+H	3.15912e-16	1.00000	3.16146e-16	1.00000
rad13	1.31144e-16	1.00000	1.31241e-16	1.00000
rad59	9.89462e-17	1.00000	9.90196e-17	1.00000
rad50	6.38912e-18	1.00000	6.39386e-18	1.00000
rad27	4.00275e-18	1.00000	4.00572e-18	1.00000
rad25	1.30263e-18	1.00000	1.30360e-18	1.00000
rad14	1.20203e-18	1.00000	1.20293e-18	1.00000
rad19syn	8.29179e-19	1.00000	8.29794e-19	1.00000
rad33	3.11538e-19	1.00000	3.11769e-19	1.00000
rad20	1.64931e-19	1.00000	1.65054e-19	1.00000
rad21	1.06765e-19	1.00000	1.06844e-19	1.00000
rad54	1.96548e-20	1.00000	1.96693e-20	1.00000
PAH10+CH3	1.31523e-20	1.00000	1.31621e-20	1.00000
rad43	3.09130e-21	1.00000	3.09359e-21	1.00000
rad52	1.81421e-21	1.00000	1.81555e-21	1.00000
rad23	1.74924e-21	1.00000	1.75053e-21	1.00000
rad62	8.33487e-22	1.00000	8.34105e-22	1.00000
rad18	6.81467e-22	1.00000	6.81972e-22	1.00000
rad31	2.08921e-22	1.00000	2.09076e-22	1.00000
rad4	1.05521e-22	1.00000	1.05599e-22	1.00000
rad3	6.69537e-23	1.00000	6.70033e-23	1.00000
PhcycC3H3_A+H	6.28440e-23	1.00000	6.28906e-23	1.00000
rad51	5.84528e-23	1.00000	5.84962e-23	1.00000
rad22	4.03628e-23	1.00000	4.03927e-23	1.00000
rad70	3.99452e-23	1.00000	3.99748e-23	1.00000
rad55	1.69373e-23	1.00000	1.69499e-23	1.00000
rad45	9.33161e-24	1.00000	9.33853e-24	1.00000
rad58	4.03354e-24	1.00000	4.03653e-24	1.00000
PAH1+H	1.62733e-24	1.00000	1.62853e-24	1.00000
rad36	5.99910e-25	1.00000	6.00355e-25	1.00000
rad65	5.31208e-25	1.00000	5.31602e-25	1.00000
rad34	1.02480e-25	1.00000	1.02556e-25	1.00000
rad24	3.09631e-26	1.00000	3.09861e-26	1.00000

rad42	1.63125e-27	1.00000	1.63246e-27	1.00000
rad41	4.81362e-28	1.00000	4.81719e-28	1.00000
rad47	5.14497e-40	1.00000	5.14878e-40	1.00000

0.100000000E-08 Pa, 280.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.89357e-23 (1.00)	1.89185e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.999090	0.999090	1.00000	1.00000
Benzyl+C2H2	0.000909507	1.000000	0.00000	1.00000
PhCCH+CH3	2.06335e-07	1.000000	2.06522e-07	1.00000
PhCHCCH2+H	1.42881e-07	1.000000	1.43012e-07	1.00000
PhCCCH3+H	7.67167e-08	1.000000	7.67866e-08	1.00000
rad30	2.52475e-08	1.000000	2.52705e-08	1.00000
rad15	3.14926e-09	1.000000	3.15213e-09	1.00000
PAH9+H	3.03559e-09	1.000000	3.03835e-09	1.00000
Ph+MeAc	2.18704e-09	1.000000	2.18903e-09	1.00000
rad35	1.93648e-09	1.000000	1.93824e-09	1.00000
rad38	6.52109e-10	1.000000	6.52703e-10	1.00000
rad8	6.11075e-10	1.000000	6.11632e-10	1.00000
rad9	3.21753e-10	1.000000	3.22045e-10	1.00000
rad6	2.46767e-10	1.000000	2.46991e-10	1.00000
PAH7+H	2.00114e-10	1.000000	2.00296e-10	1.00000
Ph+Allene	1.22724e-10	1.000000	1.22836e-10	1.00000
rad39	3.11224e-11	1.000000	3.11507e-11	1.00000
rad12	2.15404e-11	1.000000	2.15600e-11	1.00000
rad28	4.88137e-12	1.000000	4.88581e-12	1.00000
rad46	2.54457e-12	1.000000	2.54689e-12	1.00000
PhCH2CCH+H	1.57107e-12	1.000000	1.57251e-12	1.00000
rad26	6.12089e-13	1.000000	6.12646e-13	1.00000
rad60syn	2.35373e-13	1.000000	2.35588e-13	1.00000
rad2	1.85319e-13	1.000000	1.85488e-13	1.00000
rad37	1.74095e-13	1.000000	1.74254e-13	1.00000
rad60anti	7.07396e-14	1.000000	7.08040e-14	1.00000
rad10	4.29587e-14	1.000000	4.29978e-14	1.00000
rad7	1.86721e-14	1.000000	1.86891e-14	1.00000
rad1	1.37743e-14	1.000000	1.37868e-14	1.00000
rad11	4.71692e-15	1.000000	4.72121e-15	1.00000
rad5	3.56589e-15	1.000000	3.56914e-15	1.00000
PAH3+H	9.16507e-16	1.000000	9.17341e-16	1.00000
rad59	2.80900e-16	1.000000	2.81156e-16	1.00000
rad13	1.07272e-16	1.000000	1.07369e-16	1.00000
rad50	1.86453e-17	1.000000	1.86623e-17	1.00000
rad27	3.71713e-18	1.000000	3.72051e-18	1.00000
rad19syn	3.13292e-18	1.000000	3.13577e-18	1.00000
rad25	1.34473e-18	1.000000	1.34595e-18	1.00000
rad14	1.27872e-18	1.000000	1.27988e-18	1.00000
rad33	2.59333e-19	1.000000	2.59570e-19	1.00000
rad20	1.51464e-19	1.000000	1.51602e-19	1.00000
rad21	9.83820e-20	1.000000	9.84716e-20	1.00000
rad54	8.26763e-20	1.000000	8.27515e-20	1.00000
PAH10+CH3	5.48810e-20	1.000000	5.49309e-20	1.00000
rad43	1.28005e-20	1.000000	1.28122e-20	1.00000
rad52	6.86644e-21	1.000000	6.87269e-21	1.00000
rad62	3.68998e-21	1.000000	3.69334e-21	1.00000
rad23	2.94369e-21	1.000000	2.94637e-21	1.00000
rad18	6.14405e-22	1.000000	6.14964e-22	1.00000
PhcycC3H3_A+H	3.28881e-22	1.000000	3.29180e-22	1.00000
rad51	2.68189e-22	1.000000	2.68433e-22	1.00000
rad31	2.07619e-22	1.000000	2.07808e-22	1.00000
rad70	2.02731e-22	1.000000	2.02915e-22	1.00000
rad55	8.69007e-23	1.000000	8.69799e-23	1.00000
rad4	5.06569e-23	1.000000	5.07030e-23	1.00000
rad22	3.58622e-23	1.000000	3.58949e-23	1.00000
rad3	2.82334e-23	1.000000	2.82591e-23	1.00000
rad58	2.12890e-23	1.000000	2.13084e-23	1.00000
rad45	9.92839e-24	1.000000	9.93743e-24	1.00000
PAH1+H	9.19440e-24	1.000000	9.20277e-24	1.00000
rad65	2.64204e-24	1.000000	2.64445e-24	1.00000
rad36	6.42139e-25	1.000000	6.42723e-25	1.00000
rad34	5.91306e-25	1.000000	5.91844e-25	1.00000
rad24	3.28555e-26	1.000000	3.28854e-26	1.00000
rad42	9.90724e-27	1.000000	9.91626e-27	1.00000
rad41	2.94681e-27	1.000000	2.94949e-27	1.00000
rad47	2.49702e-39	1.000000	2.49929e-39	1.00000

0.100000000E-08 Pa, 290.000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 4.20015e-23 (1.00) 4.19549e-23 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998889	0.998889	0.999999	0.999999
Benzyl+C2H2	0.00111067	1.000000	0.000000	0.999999
PhCCH+CH3	3.26967e-07	1.000000	3.27331e-07	0.999999
PhCHCCH2+H	2.18563e-07	1.000000	2.18806e-07	1.000000
PhCCCH3+H	1.20683e-07	1.000000	1.20817e-07	1.000000
rad30	3.37617e-08	1.000000	3.37992e-08	1.000000
rad15	4.49781e-09	1.000000	4.50281e-09	1.000000
Ph+MeAc	4.18748e-09	1.000000	4.19214e-09	1.000000
PAH9+H	4.04965e-09	1.000000	4.05415e-09	1.000000
rad35	2.50193e-09	1.000000	2.50472e-09	1.000000
rad8	1.02741e-09	1.000000	1.02856e-09	1.000000
rad38	9.00379e-10	1.000000	9.01380e-10	1.000000
rad9	5.75330e-10	1.000000	5.75970e-10	1.000000
PAH7+H	3.62665e-10	1.000000	3.63068e-10	1.000000
Ph+Allene	2.59613e-10	1.000000	2.59902e-10	1.000000
rad6	2.00676e-10	1.000000	2.00899e-10	1.000000
rad39	5.94192e-11	1.000000	5.94852e-11	1.000000
rad12	3.84726e-11	1.000000	3.85153e-11	1.000000
rad28	4.56933e-12	1.000000	4.57441e-12	1.000000
rad46	4.23385e-12	1.000000	4.23856e-12	1.000000
PhCH2CCH+H	3.90284e-12	1.000000	3.90718e-12	1.000000
rad26	5.81579e-13	1.000000	5.82226e-13	1.000000
rad60syn	4.67307e-13	1.000000	4.67826e-13	1.000000
rad37	3.90735e-13	1.000000	3.91170e-13	1.000000
rad60anti	1.45354e-13	1.000000	1.45516e-13	1.000000
rad2	7.03595e-14	1.000000	7.04377e-14	1.000000
rad10	3.34191e-14	1.000000	3.34562e-14	1.000000
rad7	1.52290e-14	1.000000	1.52459e-14	1.000000
rad5	8.92904e-15	1.000000	8.93897e-15	1.000000
rad3	8.37963e-15	1.000000	8.38895e-15	1.000000
rad1	5.31559e-15	1.000000	5.32150e-15	1.000000
rad4	4.45235e-15	1.000000	4.45730e-15	1.000000
rad11	3.85522e-15	1.000000	3.85950e-15	1.000000
PAH3+H	2.47956e-15	1.000000	2.48232e-15	1.000000
rad59	7.44181e-16	1.000000	7.45009e-16	1.000000
rad13	8.77040e-17	1.000000	8.78015e-17	1.000000
rad50	5.08734e-17	1.000000	5.09300e-17	1.000000
rad19syn	1.08024e-17	1.000000	1.08144e-17	1.000000
rad27	3.41498e-18	1.000000	3.41878e-18	1.000000
rad25	1.36277e-18	1.000000	1.36429e-18	1.000000
rad14	1.33240e-18	1.000000	1.33388e-18	1.000000
rad54	3.14766e-19	1.000000	3.15116e-19	1.000000
rad33	2.16081e-19	1.000000	2.16322e-19	1.000000
PAH10+CH3	2.07062e-19	1.000000	2.07292e-19	1.000000
rad20	1.39445e-19	1.000000	1.39600e-19	1.000000
rad21	9.09069e-20	1.000000	9.10080e-20	1.000000
rad43	4.79070e-20	1.000000	4.79603e-20	1.000000
rad52	2.37882e-20	1.000000	2.38146e-20	1.000000
rad62	1.46949e-20	1.000000	1.47112e-20	1.000000
rad23	5.09436e-21	1.000000	5.10002e-21	1.000000
PhcycC3H3_A+H	1.52452e-21	1.000000	1.52622e-21	1.000000
rad51	1.10724e-21	1.000000	1.10847e-21	1.000000
rad70	9.13951e-22	1.000000	9.14968e-22	1.000000
rad18	5.54447e-22	1.000000	5.55064e-22	1.000000
rad55	3.95677e-22	1.000000	3.96117e-22	1.000000
rad31	2.08299e-22	1.000000	2.08530e-22	1.000000
rad58	9.94323e-23	1.000000	9.95428e-23	1.000000
PAH1+H	4.55733e-23	1.000000	4.56240e-23	1.000000
rad22	3.18641e-23	1.000000	3.18996e-23	1.000000
rad45	1.73265e-23	1.000000	1.73458e-23	1.000000
rad65	1.17141e-23	1.000000	1.17271e-23	1.000000
rad34	2.98552e-24	1.000000	2.98884e-24	1.000000
rad36	1.12915e-24	1.000000	1.13041e-24	1.000000
rad42	5.23352e-26	1.000000	5.23933e-26	1.000000
rad24	3.51343e-26	1.000000	3.51733e-26	1.000000
rad41	1.56770e-26	1.000000	1.56944e-26	1.000000
rad47	1.07468e-38	1.000000	1.07587e-38	1.000000

0.100000000E-08 Pa, 300.000000 K

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Rate constant | True (fraction) Effective (fraction)

Total | 1.17740e-22 (1.00) 1.17544e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998338	0.998338	0.999999	0.999999
Benzyl+C2H2	0.00166158	1.000000	0.000000	0.999999
PhCCH+CH3	4.36741e-07	1.000000	4.37468e-07	0.999999
PhCHCCH2+H	2.66156e-07	1.000000	2.66599e-07	1.000000
PhCCCH3+H	1.55714e-07	1.000000	1.55974e-07	1.000000
rad30	3.74940e-08	1.000000	3.75564e-08	1.000000
Ph+MeAc	6.10066e-09	1.000000	6.11081e-09	1.000000
PAH9+H	5.54882e-09	1.000000	5.55806e-09	1.000000
rad35	2.76931e-09	1.000000	2.77392e-09	1.000000
rad38	1.02444e-09	1.000000	1.02615e-09	1.000000
PAH7+H	6.45709e-10	1.000000	6.46784e-10	1.000000
rad6	6.42658e-10	1.000000	6.43728e-10	1.000000
Ph+Allene	2.52011e-10	1.000000	2.52430e-10	1.000000
rad39	8.64609e-11	1.000000	8.66048e-11	1.000000
rad19anti	1.63372e-11	1.000000	1.63644e-11	1.000000
PhCH2CCH+H	7.51670e-12	1.000000	7.52921e-12	1.000000
rad46	5.66748e-12	1.000000	5.67691e-12	1.000000
rad28	4.44134e-12	1.000000	4.44873e-12	1.000000
rad60syn	7.07965e-13	1.000000	7.09144e-13	1.000000
rad37	6.05562e-13	1.000000	6.06570e-13	1.000000
rad26	4.05831e-13	1.000000	4.06507e-13	1.000000
rad2	2.79227e-13	1.000000	2.79692e-13	1.000000
rad60anti	2.13244e-13	1.000000	2.13599e-13	1.000000
rad10	1.40094e-13	1.000000	1.40327e-13	1.000000
rad7	5.73340e-14	1.000000	5.74295e-14	1.000000
rad1	2.10123e-14	1.000000	2.10473e-14	1.000000
rad11	1.47074e-14	1.000000	1.47319e-14	1.000000
PAH3+H	6.24906e-15	1.000000	6.25946e-15	1.000000
rad59	1.44646e-15	1.000000	1.44887e-15	1.000000
rad3	9.54195e-16	1.000000	9.55783e-16	1.000000
rad4	4.73988e-16	1.000000	4.74777e-16	1.000000
rad13	3.31674e-16	1.000000	3.32226e-16	1.000000
rad50	1.03024e-16	1.000000	1.03196e-16	1.000000
rad19syn	2.69219e-17	1.000000	2.69667e-17	1.000000
rad23	1.63769e-17	1.000000	1.64042e-17	1.000000
rad20	7.81361e-18	1.000000	7.82661e-18	1.000000
rad21	4.99565e-18	1.000000	5.00396e-18	1.000000
rad27	2.81910e-18	1.000000	2.82379e-18	1.000000
rad33	1.31828e-18	1.000000	1.32048e-18	1.000000
rad45	1.24547e-18	1.000000	1.24754e-18	1.000000
rad67	1.20173e-18	1.000000	1.20373e-18	1.000000
rad14	1.11468e-18	1.000000	1.11653e-18	1.000000
rad25	9.88394e-19	1.000000	9.90039e-19	1.000000
rad54	8.62468e-19	1.000000	8.63904e-19	1.000000
PAH10+CH3	5.71972e-19	1.000000	5.72924e-19	1.000000
rad18	1.88472e-19	1.000000	1.88786e-19	1.000000
rad22	1.53908e-19	1.000000	1.54164e-19	1.000000
rad43	1.19050e-19	1.000000	1.19249e-19	1.000000
rad52	6.28747e-20	1.000000	6.29793e-20	1.000000
rad36	4.25700e-20	1.000000	4.26409e-20	1.000000
rad62	4.05052e-20	1.000000	4.05727e-20	1.000000
PhcycC3H3_A+H	7.38944e-21	1.000000	7.40173e-21	1.000000
rad51	3.46093e-21	1.000000	3.46669e-21	1.000000
rad70	3.35423e-21	1.000000	3.35981e-21	1.000000
rad55	1.33538e-21	1.000000	1.33760e-21	1.000000
rad31	4.05135e-22	1.000000	4.05810e-22	1.000000
rad58	3.59869e-22	1.000000	3.60468e-22	1.000000
PAH1+H	2.76409e-22	1.000000	2.76869e-22	1.000000
rad65	4.20415e-23	1.000000	4.21115e-23	1.000000
rad34	1.85425e-23	1.000000	1.85734e-23	1.000000
rad24	1.73487e-23	1.000000	1.73776e-23	1.000000
rad42	4.75218e-25	1.000000	4.76009e-25	1.000000
rad41	1.44595e-25	1.000000	1.44836e-25	1.000000
rad9	1.13977e-26	1.000000	1.14166e-26	1.000000
rad53	6.41324e-27	1.000000	6.42392e-27	1.000000
rad64	1.37052e-27	1.000000	1.37280e-27	1.000000
rad56	9.20939e-30	1.000000	9.22472e-30	1.000000
rad15	6.66576e-30	1.000000	6.67685e-30	1.000000
rad61	1.39478e-30	1.000000	1.39710e-30	1.000000
rad68syn	1.01949e-30	1.000000	1.02119e-30	1.000000
rad68anti	7.27726e-31	1.000000	7.28938e-31	1.000000
rad5	1.47008e-32	1.000000	1.47253e-32	1.000000
rad12	8.84003e-33	1.000000	8.85475e-33	1.000000
rad73	2.19622e-33	1.000000	2.19987e-33	1.000000
rad40syn	2.30545e-34	1.000000	2.30929e-34	1.000000
rad40anti	7.00540e-35	1.000000	7.01706e-35	1.000000

rad47	2.39996e-38	1.00000	2.40395e-38	1.000000
rad71	2.29536e-40	1.00000	2.29918e-40	1.000000
PAH8+H	7.78000e-41	1.00000	7.79295e-41	1.000000
rad72	4.05077e-46	1.00000	4.05751e-46	1.000000
rad8	2.66068e-47	1.00000	2.66511e-47	1.000000

0.100000000E-08 Pa, 310.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.44453e-22 (1.00)	2.44054e-22 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.998366	0.998366	0.999998	0.999998
Benzyl+C2H2	0.00163189	0.999998	0.00000	0.999998
PhCCH+CH3	7.61281e-07	0.999999	7.62525e-07	0.999999
PhCHCCH2+H	4.78180e-07	0.999999	4.78961e-07	0.999999
PhCCCH3+H	2.76251e-07	0.999999	2.76703e-07	1.000000
rad30	5.84662e-08	0.999999	5.85618e-08	1.000000
Ph+MeAc	1.35870e-08	0.999999	1.36092e-08	1.000000
rad15	8.75423e-09	0.999999	8.76854e-09	1.000000
PAH9+H	7.07588e-09	0.999999	7.08745e-09	1.000000
rad35	4.11579e-09	0.999999	4.12252e-09	1.000000
rad8	2.65492e-09	1.000000	2.65926e-09	1.000000
rad38	1.67249e-09	1.000000	1.67522e-09	1.000000
rad9	1.66330e-09	1.000000	1.66602e-09	1.000000
PAH7+H	1.07656e-09	1.000000	1.07832e-09	1.000000
Ph+Allene	1.01826e-09	1.000000	1.01992e-09	1.000000
rad39	1.93123e-10	1.000000	1.93438e-10	1.000000
rad6	1.32445e-10	1.000000	1.32662e-10	1.000000
rad12	1.09977e-10	1.000000	1.10157e-10	1.000000
PhCH2CCH+H	2.04110e-11	1.000000	2.04443e-11	1.000000
rad46	1.09555e-11	1.000000	1.09734e-11	1.000000
rad28	3.86659e-12	1.000000	3.87291e-12	1.000000
rad37	1.66365e-12	1.000000	1.66637e-12	1.000000
rad60syn	1.63169e-12	1.000000	1.63436e-12	1.000000
rad60anti	5.39033e-13	1.000000	5.39914e-13	1.000000
rad26	5.05639e-13	1.000000	5.06465e-13	1.000000
rad2	2.29684e-13	1.000000	2.30059e-13	1.000000
rad5	4.67694e-14	1.000000	4.68459e-14	1.000000
rad10	2.09272e-14	1.000000	2.09614e-14	1.000000
rad1	1.79250e-14	1.000000	1.79543e-14	1.000000
PAH3+H	1.51219e-14	1.000000	1.51467e-14	1.000000
rad7	1.01130e-14	1.000000	1.01295e-14	1.000000
rad59	4.36101e-15	1.000000	4.36813e-15	1.000000
rad11	2.57186e-15	1.000000	2.57606e-15	1.000000
rad50	3.17584e-16	1.000000	3.18103e-16	1.000000
rad19syn	1.01011e-16	1.000000	1.01176e-16	1.000000
rad13	5.85486e-17	1.000000	5.86443e-17	1.000000
rad54	3.50801e-18	1.000000	3.51374e-18	1.000000
rad27	2.80255e-18	1.000000	2.80713e-18	1.000000
PAH10+CH3	2.26101e-18	1.000000	2.26470e-18	1.000000
rad14	1.37030e-18	1.000000	1.37254e-18	1.000000
rad25	1.33358e-18	1.000000	1.33576e-18	1.000000
rad43	5.14357e-19	1.000000	5.15197e-19	1.000000
rad52	2.26217e-19	1.000000	2.26587e-19	1.000000
rad62	1.76311e-19	1.000000	1.76600e-19	1.000000
rad33	1.50539e-19	1.000000	1.50785e-19	1.000000
rad20	1.19171e-19	1.000000	1.19366e-19	1.000000
rad21	7.83225e-20	1.000000	7.84505e-20	1.000000
PhcycC3H3_A+H	2.37749e-20	1.000000	2.38138e-20	1.000000
rad23	1.63531e-20	1.000000	1.63798e-20	1.000000
rad51	1.42634e-20	1.000000	1.42867e-20	1.000000
rad70	1.35852e-20	1.000000	1.36074e-20	1.000000
rad55	5.98370e-21	1.000000	5.99349e-21	1.000000
rad58	1.57034e-21	1.000000	1.57291e-21	1.000000
rad4	1.26663e-21	1.000000	1.26870e-21	1.000000
PAH1+H	7.93483e-22	1.000000	7.94780e-22	1.000000
rad3	7.77127e-22	1.000000	7.78397e-22	1.000000
rad18	4.52945e-22	1.000000	4.53685e-22	1.000000
rad31	2.15645e-22	1.000000	2.15997e-22	1.000000
rad65	1.69845e-22	1.000000	1.70123e-22	1.000000
rad34	5.35999e-23	1.000000	5.36875e-23	1.000000
rad45	2.84057e-23	1.000000	2.84521e-23	1.000000
rad22	2.51639e-23	1.000000	2.52050e-23	1.000000
rad36	1.88284e-24	1.000000	1.88591e-24	1.000000
rad42	1.01340e-24	1.000000	1.01506e-24	1.000000
rad41	3.07228e-25	1.000000	3.07730e-25	1.000000
rad24	4.11790e-26	1.000000	4.12463e-26	1.000000

rad47 | 1.45559e-37 1.000000 | 1.45797e-37 1.000000

0.100000000E-08 Pa, 400.000000 K

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

Total | 3.60269e-20 (1.00) | 3.57081e-20 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.991128	0.991128	0.999976	0.999976
Benzyl+C2H2	0.00884848	0.999976	0.00000	0.999976
PhCCH+CH3	1.23505e-05	0.999989	1.24608e-05	0.999988
PhCHCCH2+H	5.95042e-06	0.999995	6.00355e-06	0.999994
PhCCCH3+H	3.90745e-06	0.999999	3.94234e-06	0.999998
Ph+MeAc	5.34638e-07	0.999999	5.39411e-07	0.999999
rad30	4.02127e-07	1.000000	4.05716e-07	0.999999
PAH9+H	6.80803e-08	1.000000	6.86880e-08	0.999999
Ph+Allene	6.39781e-08	1.000000	6.45492e-08	0.999999
PAH7+H	4.50278e-08	1.000000	4.54297e-08	1.000000
rad35	2.73752e-08	1.000000	2.76196e-08	1.000000
rad38	1.63212e-08	1.000000	1.64670e-08	1.000000
rad39	8.59872e-09	1.000000	8.67548e-09	1.000000
PhCH2CCH+H	4.56270e-09	1.000000	4.60343e-09	1.000000
rad19anti	8.44423e-10	1.000000	8.51962e-10	1.000000
rad46	3.06009e-10	1.000000	3.08741e-10	1.000000
rad37	1.38254e-10	1.000000	1.39488e-10	1.000000
rad60syn	9.47275e-11	1.000000	9.55731e-11	1.000000
rad6	8.51274e-11	1.000000	8.58874e-11	1.000000
rad60anti	3.76555e-11	1.000000	3.79916e-11	1.000000
PAH3+H	6.50520e-12	1.000000	6.56327e-12	1.000000
rad28	1.36563e-12	1.000000	1.37782e-12	1.000000
rad59	1.36005e-12	1.000000	1.37219e-12	1.000000
rad26	1.83548e-13	1.000000	1.85187e-13	1.000000
rad50	1.35994e-13	1.000000	1.37208e-13	1.000000
rad19syn	1.28743e-13	1.000000	1.29892e-13	1.000000
rad54	8.91593e-15	1.000000	8.99553e-15	1.000000
rad7	8.04767e-15	1.000000	8.11952e-15	1.000000
PAH10+CH3	4.84579e-15	1.000000	4.88906e-15	1.000000
rad11	2.24877e-15	1.000000	2.26885e-15	1.000000
rad67	1.67319e-15	1.000000	1.68812e-15	1.000000
rad23	1.17196e-15	1.000000	1.18242e-15	1.000000
rad10	1.11708e-15	1.000000	1.12705e-15	1.000000
rad43	8.69681e-16	1.000000	8.77445e-16	1.000000
rad62	4.86641e-16	1.000000	4.90986e-16	1.000000
rad52	4.03329e-16	1.000000	4.06930e-16	1.000000
PhcycC3H3_A+H	3.21885e-16	1.000000	3.24758e-16	1.000000
rad70	1.20384e-16	1.000000	1.21459e-16	1.000000
rad51	7.61818e-17	1.000000	7.68619e-17	1.000000
rad45	5.34980e-17	1.000000	5.39756e-17	1.000000
rad55	5.04270e-17	1.000000	5.08771e-17	1.000000
rad13	5.00152e-17	1.000000	5.04617e-17	1.000000
PAH1+H	2.44002e-17	1.000000	2.46180e-17	1.000000
rad58	1.79710e-17	1.000000	1.81314e-17	1.000000
rad4	1.64632e-17	1.000000	1.66101e-17	1.000000
rad3	1.02690e-17	1.000000	1.03607e-17	1.000000
rad20	4.10337e-18	1.000000	4.14000e-18	1.000000
rad21	2.86957e-18	1.000000	2.89519e-18	1.000000
rad1	2.73838e-18	1.000000	2.76282e-18	1.000000
rad36	2.29959e-18	1.000000	2.32012e-18	1.000000
rad34	2.03113e-18	1.000000	2.04927e-18	1.000000
rad65	1.53287e-18	1.000000	1.54656e-18	1.000000
rad27	1.02293e-18	1.000000	1.03206e-18	1.000000
rad14	8.22626e-19	1.000000	8.29970e-19	1.000000
rad25	7.37946e-19	1.000000	7.44534e-19	1.000000
rad33	3.27723e-19	1.000000	3.30649e-19	1.000000
rad2	1.01835e-19	1.000000	1.02744e-19	1.000000
rad18	7.76315e-20	1.000000	7.83245e-20	1.000000
rad42	7.25697e-20	1.000000	7.32176e-20	1.000000
rad22	4.94318e-20	1.000000	4.98731e-20	1.000000
rad41	2.24628e-20	1.000000	2.26633e-20	1.000000
rad53	5.65474e-21	1.000000	5.70523e-21	1.000000
rad64	1.81586e-21	1.000000	1.83207e-21	1.000000
rad31	6.42829e-22	1.000000	6.48567e-22	1.000000
rad56	6.60997e-23	1.000000	6.66898e-23	1.000000
rad24	5.54048e-23	1.000000	5.58994e-23	1.000000
rad68syn	8.53494e-24	1.000000	8.61113e-24	1.000000
rad68anti	6.16419e-24	1.000000	6.21922e-24	1.000000
rad61	4.52865e-24	1.000000	4.56908e-24	1.000000
rad9	4.46072e-25	1.000000	4.50054e-25	1.000000

rad73	2.09179e-25	1.000000	2.11046e-25	1.000000
rad40syn	4.85079e-26	1.000000	4.89409e-26	1.000000
PAH8+H	2.50891e-26	1.000000	2.53131e-26	1.000000
rad40anti	1.16020e-26	1.000000	1.17055e-26	1.000000
rad71	6.24850e-27	1.000000	6.30428e-27	1.000000
rad15	2.69385e-28	1.000000	2.71790e-28	1.000000
rad5	2.40724e-30	1.000000	2.42873e-30	1.000000
rad12	1.57110e-30	1.000000	1.58512e-30	1.000000
rad72	2.12563e-33	1.000000	2.14460e-33	1.000000
rad47	5.32422e-34	1.000000	5.37175e-34	1.000000
rad8	1.01992e-43	1.000000	1.02903e-43	1.000000

0.100000000E-08 Pa, 500.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.22595e-18 (1.00)	1.18787e-18 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.968764	0.968764	0.999822	0.999822
Benzyl+C2H2	0.0310635	0.999827	0.00000	0.999822
PhCCH+CH3	9.35930e-05	0.999921	9.65935e-05	0.999919
PhCHCCH2+H	4.00561e-05	0.999961	4.13403e-05	0.999960
PhCCCH3+H	2.54431e-05	0.999987	2.62588e-05	0.999986
Ph+MeAc	7.07386e-06	0.999994	7.30064e-06	0.999993
rad30	2.19669e-06	0.999996	2.26711e-06	0.999996
Ph+Allene	2.05092e-06	0.999998	2.11667e-06	0.999998
PAH7+H	6.80746e-07	0.999999	7.02570e-07	0.999999
PAH9+H	4.84045e-07	0.999999	4.99563e-07	0.999999
PhCH2CCH+H	2.44801e-07	0.999999	2.52649e-07	0.999999
rad35	1.65639e-07	0.999999	1.70949e-07	1.000000
rad39	1.51520e-07	1.000000	1.56377e-07	1.000000
rad38	1.34449e-07	1.000000	1.38759e-07	1.000000
rad19anti	1.41564e-08	1.000000	1.46102e-08	1.000000
rad46	5.06638e-09	1.000000	5.22881e-09	1.000000
rad37	2.86983e-09	1.000000	2.96184e-09	1.000000
rad60syn	2.17485e-09	1.000000	2.24457e-09	1.000000
rad60anti	9.78348e-10	1.000000	1.00971e-09	1.000000
PAH3+H	4.98713e-10	1.000000	5.14701e-10	1.000000
rad59	9.55001e-11	1.000000	9.85617e-11	1.000000
rad19syn	2.21128e-11	1.000000	2.28217e-11	1.000000
rad50	1.38223e-11	1.000000	1.42654e-11	1.000000
rad6	1.12852e-11	1.000000	1.16470e-11	1.000000
rad54	2.40094e-12	1.000000	2.47791e-12	1.000000
PAH10+CH3	9.70418e-13	1.000000	1.00153e-12	1.000000
rad2	3.40631e-13	1.000000	3.51551e-13	1.000000
rad28	2.62061e-13	1.000000	2.70462e-13	1.000000
rad67	2.37492e-13	1.000000	2.45106e-13	1.000000
PhcycC3H3_A+H	2.03140e-13	1.000000	2.09652e-13	1.000000
rad43	1.48445e-13	1.000000	1.53204e-13	1.000000
rad62	1.23066e-13	1.000000	1.27012e-13	1.000000
rad52	1.00173e-13	1.000000	1.03384e-13	1.000000
rad70	6.56843e-14	1.000000	6.77901e-14	1.000000
rad26	4.42301e-14	1.000000	4.56481e-14	1.000000
rad1	3.97315e-14	1.000000	4.10052e-14	1.000000
rad51	3.84244e-14	1.000000	3.96563e-14	1.000000
rad55	2.77305e-14	1.000000	2.86195e-14	1.000000
PAH1+H	2.28960e-14	1.000000	2.36300e-14	1.000000
rad23	1.79820e-14	1.000000	1.85585e-14	1.000000
rad58	1.24937e-14	1.000000	1.28942e-14	1.000000
rad10	8.01059e-15	1.000000	8.26740e-15	1.000000
rad45	5.12416e-15	1.000000	5.28843e-15	1.000000
rad34	2.11777e-15	1.000000	2.18567e-15	1.000000
rad7	1.16118e-15	1.000000	1.19841e-15	1.000000
rad65	9.80426e-16	1.000000	1.01186e-15	1.000000
rad3	6.78159e-16	1.000000	6.99900e-16	1.000000
rad4	4.13239e-16	1.000000	4.26487e-16	1.000000
rad11	3.80306e-16	1.000000	3.92498e-16	1.000000
rad36	2.67671e-16	1.000000	2.76252e-16	1.000000
rad42	8.25255e-17	1.000000	8.51713e-17	1.000000
rad41	2.35251e-17	1.000000	2.42793e-17	1.000000
rad53	2.01904e-17	1.000000	2.08377e-17	1.000000
rad13	8.56241e-18	1.000000	8.83691e-18	1.000000
rad64	7.88165e-18	1.000000	8.13433e-18	1.000000
rad20	3.27939e-18	1.000000	3.38453e-18	1.000000
rad21	2.58371e-18	1.000000	2.66655e-18	1.000000
rad56	7.26378e-19	1.000000	7.49666e-19	1.000000
rad14	2.96389e-19	1.000000	3.05891e-19	1.000000
rad25	2.72293e-19	1.000000	2.81023e-19	1.000000

rad27	2.61923e-19	1.000000	2.70320e-19	1.000000
rad33	1.23911e-19	1.000000	1.27883e-19	1.000000
rad68syn	9.96087e-20	1.000000	1.02802e-19	1.000000
rad68anti	7.08128e-20	1.000000	7.30830e-20	1.000000
rad18	4.11001e-20	1.000000	4.24178e-20	1.000000
rad61	2.98900e-20	1.000000	3.08482e-20	1.000000
rad22	1.79177e-20	1.000000	1.84922e-20	1.000000
rad73	6.59419e-21	1.000000	6.80559e-21	1.000000
rad40syn	1.51467e-21	1.000000	1.56323e-21	1.000000
PAH8+H	1.47917e-21	1.000000	1.52659e-21	1.000000
rad31	1.29644e-21	1.000000	1.33800e-21	1.000000
rad71	4.95405e-22	1.000000	5.11287e-22	1.000000
rad24	4.11953e-22	1.000000	4.25160e-22	1.000000
rad40anti	4.04750e-22	1.000000	4.17726e-22	1.000000
rad9	2.36160e-23	1.000000	2.43731e-23	1.000000
rad72	1.22398e-25	1.000000	1.26322e-25	1.000000
rad15	1.50601e-26	1.000000	1.55430e-26	1.000000
rad12	5.38328e-28	1.000000	5.55586e-28	1.000000
rad5	3.44207e-29	1.000000	3.55242e-29	1.000000
rad47	2.95499e-31	1.000000	3.04973e-31	1.000000
rad8	6.41091e-40	1.000000	6.61644e-40	1.000000

0.100000000E-08 Pa, 600.000000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.36947e-17 (1.00)	1.26193e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.920850	0.920850	0.999326	0.999326
Benzyl+C2H2	0.0785283	0.999378	0.00000	0.999326
PhCCH+CH3	0.000333045	0.999711	0.000361427	0.999687
PhCHCCH2+H	0.000137020	0.999848	0.000148697	0.999836
PhCCCH3+H	7.54035e-05	0.999924	8.18295e-05	0.999918
Ph+MeAc	3.38749e-05	0.999958	3.67618e-05	0.999955
Ph+Allene	2.17077e-05	0.999979	2.35577e-05	0.999978
rad30	7.59256e-06	0.999987	8.23960e-06	0.999987
PAH7+H	4.39153e-06	0.999991	4.76577e-06	0.999991
PhCH2CCH+H	3.66168e-06	0.999995	3.97373e-06	0.999995
PAH9+H	2.21748e-06	0.999997	2.40646e-06	0.999998
rad39	1.04275e-06	0.999998	1.13162e-06	0.999999
rad38	6.77227e-07	0.999999	7.34941e-07	1.000000
rad35	6.69664e-07	1.000000	7.26734e-07	1.000000
rad19anti	1.16219e-07	1.000000	1.26124e-07	1.000000
rad46	4.03894e-08	1.000000	4.38315e-08	1.000000
rad60syn	1.92850e-08	1.000000	2.09285e-08	1.000000
rad37	1.80180e-08	1.000000	1.95535e-08	1.000000
PAH3+H	9.89107e-09	1.000000	1.07340e-08	1.000000
rad60anti	9.33103e-09	1.000000	1.01262e-08	1.000000
rad59	1.75177e-09	1.000000	1.90106e-09	1.000000
rad19syn	6.85595e-10	1.000000	7.44022e-10	1.000000
rad50	3.60206e-10	1.000000	3.90903e-10	1.000000
rad54	1.00686e-10	1.000000	1.09267e-10	1.000000
PAH10+CH3	2.91649e-11	1.000000	3.16504e-11	1.000000
PhcycC3H3_A+H	1.50044e-11	1.000000	1.62831e-11	1.000000
rad67	9.04132e-12	1.000000	9.81183e-12	1.000000
rad52	4.62396e-12	1.000000	5.01802e-12	1.000000
rad62	4.44939e-12	1.000000	4.82857e-12	1.000000
rad70	4.33463e-12	1.000000	4.70403e-12	1.000000
rad43	3.80244e-12	1.000000	4.12649e-12	1.000000
rad51	2.80799e-12	1.000000	3.04729e-12	1.000000
PAH1+H	2.14126e-12	1.000000	2.32374e-12	1.000000
rad55	1.80944e-12	1.000000	1.96364e-12	1.000000
rad6	1.58575e-12	1.000000	1.72089e-12	1.000000
rad58	1.01134e-12	1.000000	1.09753e-12	1.000000
rad34	2.13662e-13	1.000000	2.31871e-13	1.000000
rad65	8.07407e-14	1.000000	8.76214e-14	1.000000
rad2	5.16890e-14	1.000000	5.60940e-14	1.000000
rad28	4.18866e-14	1.000000	4.54562e-14	1.000000
rad23	4.07597e-14	1.000000	4.42333e-14	1.000000
rad45	1.26667e-14	1.000000	1.37462e-14	1.000000
rad26	8.22365e-15	1.000000	8.92448e-15	1.000000
rad42	8.05553e-15	1.000000	8.74203e-15	1.000000
rad1	7.56052e-15	1.000000	8.20484e-15	1.000000
rad53	4.55499e-15	1.000000	4.94316e-15	1.000000
rad41	2.01461e-15	1.000000	2.18630e-15	1.000000
rad64	1.93951e-15	1.000000	2.10479e-15	1.000000
rad10	1.58553e-15	1.000000	1.72065e-15	1.000000
rad3	1.45825e-15	1.000000	1.58253e-15	1.000000

rad4	9.75435e-16	1.000000	1.05856e-15	1.00000
rad36	9.72998e-16	1.000000	1.05592e-15	1.00000
rad56	3.44486e-16	1.000000	3.73843e-16	1.00000
rad7	1.86847e-16	1.000000	2.02770e-16	1.00000
rad11	8.24465e-17	1.000000	8.94726e-17	1.00000
rad68syn	4.92084e-17	1.000000	5.34020e-17	1.00000
rad68anti	3.44242e-17	1.000000	3.73578e-17	1.00000
rad61	9.40581e-18	1.000000	1.02074e-17	1.00000
rad73	7.21013e-18	1.000000	7.82459e-18	1.00000
rad20	4.39483e-18	1.000000	4.76936e-18	1.00000
rad21	3.92596e-18	1.000000	4.26053e-18	1.00000
rad13	2.26026e-18	1.000000	2.45288e-18	1.00000
PAH8+H	2.19160e-18	1.000000	2.37837e-18	1.00000
rad40syn	1.45282e-18	1.000000	1.57663e-18	1.00000
rad71	1.06185e-18	1.000000	1.15234e-18	1.00000
rad40anti	4.38409e-19	1.000000	4.75770e-19	1.00000
rad14	8.72662e-20	1.000000	9.47031e-20	1.00000
rad25	8.44794e-20	1.000000	9.16787e-20	1.00000
rad33	8.40642e-20	1.000000	9.12282e-20	1.00000
rad27	6.99577e-20	1.000000	7.59195e-20	1.00000
rad18	3.12557e-20	1.000000	3.39194e-20	1.00000
rad22	7.90443e-21	1.000000	8.57805e-21	1.00000
rad24	5.16591e-21	1.000000	5.60616e-21	1.00000
rad72	2.83473e-21	1.000000	3.07631e-21	1.00000
rad9	1.77142e-21	1.000000	1.92238e-21	1.00000
rad31	1.61043e-21	1.000000	1.74767e-21	1.00000
rad15	1.06777e-24	1.000000	1.15877e-24	1.00000
rad12	2.10242e-25	1.000000	2.28158e-25	1.00000
rad5	1.64529e-28	1.000000	1.78550e-28	1.00000
rad47	2.24943e-29	1.000000	2.44113e-29	1.00000
rad8	9.50900e-36	1.000000	1.03194e-35	1.00000

0.100000000E-08 Pa, 700.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	8.02260e-17 (1.00)	6.78335e-17 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.844045	0.844045	0.998243	0.998243
Benzyl+CH2	0.154470	0.998515	0.00000	0.998243
PhCCH+CH3	0.000746434	0.999261	0.000882800	0.999126
PhCHCCH2+H	0.000320585	0.999582	0.000379153	0.999505
PhCCCH3+H	0.000136742	0.999719	0.000161724	0.999667
Ph+Allene	0.000115963	0.999835	0.000137148	0.999804
Ph+MeAc	8.86607e-05	0.999923	0.000104858	0.999909
PhCH2CCH+H	2.52612e-05	0.999949	2.98762e-05	0.999939
rad30	1.89338e-05	0.999968	2.23928e-05	0.999961
PAH7+H	1.64063e-05	0.999984	1.94036e-05	0.999980
PAH9+H	7.24066e-06	0.999991	8.56345e-06	0.999989
rad39	3.97935e-06	0.999995	4.70633e-06	0.999994
rad38	2.36433e-06	0.999998	2.79627e-06	0.999996
rad35	1.97985e-06	1.000000	2.34155e-06	0.999999
rad19anti	5.91542e-07	1.00000	6.99611e-07	0.999999
rad46	1.95974e-07	1.00000	2.31776e-07	1.000000
rad60syn	9.47747e-08	1.00000	1.12089e-07	1.000000
PAH3+H	8.73469e-08	1.00000	1.03304e-07	1.000000
rad37	5.67278e-08	1.00000	6.70914e-08	1.000000
rad60anti	4.82184e-08	1.00000	5.70274e-08	1.00000
rad59	1.44140e-08	1.00000	1.70472e-08	1.00000
rad19syn	7.75621e-09	1.00000	9.17319e-09	1.00000
rad50	4.08620e-09	1.00000	4.83271e-09	1.00000
rad54	1.41341e-09	1.00000	1.67162e-09	1.00000
PhcycC3H3_A+H	3.16562e-10	1.00000	3.74395e-10	1.00000
PAH10+CH3	2.96583e-10	1.00000	3.50766e-10	1.00000
rad67	1.46304e-10	1.00000	1.73032e-10	1.00000
rad70	8.36625e-11	1.00000	9.89467e-11	1.00000
rad52	7.81489e-11	1.00000	9.24259e-11	1.00000
rad51	6.57339e-11	1.00000	7.77428e-11	1.00000
rad62	5.24317e-11	1.00000	6.20104e-11	1.00000
PAH1+H	5.21512e-11	1.00000	6.16787e-11	1.00000
rad55	3.42217e-11	1.00000	4.04737e-11	1.00000
rad43	3.27206e-11	1.00000	3.86983e-11	1.00000
rad58	2.36726e-11	1.00000	2.79973e-11	1.00000
rad34	5.57915e-12	1.00000	6.59840e-12	1.00000
rad65	2.00942e-12	1.00000	2.37651e-12	1.00000
rad6	2.49583e-13	1.00000	2.95180e-13	1.00000
rad53	2.08843e-13	1.00000	2.46996e-13	1.00000
rad42	1.92430e-13	1.00000	2.27585e-13	1.00000

rad64	9.12024e-14	1.00000	1.07864e-13	1.00000
rad41	4.12884e-14	1.00000	4.88313e-14	1.00000
rad2	3.53650e-14	1.00000	4.18258e-14	1.00000
rad23	2.83336e-14	1.00000	3.35098e-14	1.00000
rad56	2.67455e-14	1.00000	3.16317e-14	1.00000
rad45	9.48741e-15	1.00000	1.12207e-14	1.00000
rad28	6.44912e-15	1.00000	7.62730e-15	1.00000
rad1	4.75007e-15	1.00000	5.61786e-15	1.00000
rad68syn	3.96301e-15	1.00000	4.68701e-15	1.00000
rad68anti	2.73674e-15	1.00000	3.23672e-15	1.00000
rad26	1.41539e-15	1.00000	1.67397e-15	1.00000
rad73	1.11718e-15	1.00000	1.32128e-15	1.00000
rad36	8.25825e-16	1.00000	9.76695e-16	1.00000
rad10	5.70588e-16	1.00000	6.74828e-16	1.00000
rad61	5.35861e-16	1.00000	6.33757e-16	1.00000
PAH8+H	3.92760e-16	1.00000	4.64513e-16	1.00000
rad71	2.37745e-16	1.00000	2.81178e-16	1.00000
rad40syn	1.89109e-16	1.00000	2.23657e-16	1.00000
rad3	9.82953e-17	1.00000	1.16253e-16	1.00000
rad4	8.73903e-17	1.00000	1.03356e-16	1.00000
rad40anti	6.36238e-17	1.00000	7.52472e-17	1.00000
rad7	3.79579e-17	1.00000	4.48924e-17	1.00000
rad11	2.77304e-17	1.00000	3.27964e-17	1.00000
rad20	9.46268e-18	1.00000	1.11914e-17	1.00000
rad21	9.16147e-18	1.00000	1.08352e-17	1.00000
rad13	1.55297e-18	1.00000	1.83668e-18	1.00000
rad72	1.57268e-19	1.00000	1.85999e-19	1.00000
rad9	1.07795e-19	1.00000	1.27488e-19	1.00000
rad33	1.04391e-19	1.00000	1.23462e-19	1.00000
rad24	5.53560e-20	1.00000	6.54690e-20	1.00000
rad18	3.75527e-20	1.00000	4.44131e-20	1.00000
rad25	3.17277e-20	1.00000	3.75240e-20	1.00000
rad14	2.91146e-20	1.00000	3.44335e-20	1.00000
rad27	2.60752e-20	1.00000	3.08389e-20	1.00000
rad22	4.56715e-21	1.00000	5.40153e-21	1.00000
rad31	1.07536e-21	1.00000	1.27182e-21	1.00000
rad15	4.28152e-23	1.00000	5.06371e-23	1.00000
rad12	2.79158e-23	1.00000	3.30158e-23	1.00000
rad5	4.85697e-28	1.00000	5.74429e-28	1.00000
rad47	4.45885e-28	1.00000	5.27343e-28	1.00000
rad8	1.57148e-31	1.00000	1.85857e-31	1.00000

0.100000000E-08 Pa, 800.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.12228e-16 (1.00)	2.33587e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.745326	0.745326	0.996252	0.996252
Benzyl+C2H2	0.251870	0.997196	0.000000	0.996252
PhCCH+CH3	0.00124162	0.998438	0.00165963	0.997912
PhCHCCH2+H	0.000603921	0.999042	0.000807240	0.998719
Ph+Allene	0.000391607	0.999433	0.000523449	0.999242
PhCCCH3+H	0.000180412	0.999614	0.000241151	0.999483
Ph+MeAc	0.000158702	0.999772	0.000212132	0.999696
PhCH2CCH+H	0.000104747	0.999877	0.000140012	0.999836
PAH7+H	4.20043e-05	0.999919	5.61457e-05	0.999892
rad30	3.73181e-05	0.999956	4.98819e-05	0.999942
PAH9+H	1.83027e-05	0.999975	2.44646e-05	0.999966
rad39	1.01670e-05	0.999985	1.35899e-05	0.999980
rad38	6.28638e-06	0.999991	8.40280e-06	0.999988
rad35	4.61792e-06	0.999996	6.17262e-06	0.999994
rad19anti	2.13374e-06	0.999998	2.85210e-06	0.999997
rad46	6.69423e-07	0.999999	8.94796e-07	0.999998
PAH3+H	4.55926e-07	0.999999	6.09421e-07	0.999999
rad60syn	3.14534e-07	0.999999	4.20427e-07	0.999999
rad60anti	1.66149e-07	0.999999	2.22085e-07	0.999999
rad37	1.16536e-07	1.000000	1.55770e-07	0.999999
rad59	7.05288e-08	1.000000	9.42735e-08	1.000000
rad19syn	4.57469e-08	1.000000	6.11483e-08	1.000000
rad50	2.67320e-08	1.000000	3.57318e-08	1.000000
rad54	9.79642e-09	1.000000	1.30945e-08	1.000000
PhcycC3H3_A+H	2.99417e-09	1.000000	4.00220e-09	1.000000
PAH10+CH3	1.56080e-09	1.000000	2.08627e-09	1.000000
rad67	1.31109e-09	1.000000	1.75248e-09	1.000000
rad51	7.38998e-10	1.000000	9.87794e-10	1.000000
rad70	7.37566e-10	1.000000	9.85880e-10	1.000000
rad52	6.86809e-10	1.000000	9.18035e-10	1.000000

PAH1+H	5.38349e-10	1.000000	7.19593e-10	1.000000
rad62	3.04694e-10	1.000000	4.07274e-10	1.000000
rad55	2.93955e-10	1.000000	3.92920e-10	1.000000
rad58	2.53305e-10	1.000000	3.38585e-10	1.000000
rad43	1.42321e-10	1.000000	1.90236e-10	1.000000
rad34	6.18274e-11	1.000000	8.26426e-11	1.000000
rad65	2.32781e-11	1.000000	3.11150e-11	1.000000
rad53	3.49856e-12	1.000000	4.67641e-12	1.000000
rad42	1.90218e-12	1.000000	2.54258e-12	1.000000
rad64	1.51194e-12	1.000000	2.02097e-12	1.000000
rad56	6.63908e-13	1.000000	8.87424e-13	1.000000
rad41	3.47549e-13	1.000000	4.64558e-13	1.000000
rad68syn	1.02292e-13	1.000000	1.36731e-13	1.000000
rad68anti	6.99231e-14	1.000000	9.34639e-14	1.000000
rad73	5.14212e-14	1.000000	6.87330e-14	1.000000
rad6	4.82657e-14	1.000000	6.45151e-14	1.000000
PAH8+H	1.87286e-14	1.000000	2.50338e-14	1.000000
rad71	1.52214e-14	1.000000	2.03460e-14	1.000000
rad23	1.30053e-14	1.000000	1.73838e-14	1.000000
rad61	1.08811e-14	1.000000	1.45443e-14	1.000000
rad40syn	7.04151e-15	1.000000	9.41215e-15	1.000000
rad2	5.90819e-15	1.000000	7.89729e-15	1.000000
rad45	5.86025e-15	1.000000	7.83320e-15	1.000000
rad40anti	2.59887e-15	1.000000	3.47382e-15	1.000000
rad28	1.08589e-15	1.000000	1.45147e-15	1.000000
rad1	8.83147e-16	1.000000	1.18047e-15	1.000000
rad36	4.61609e-16	1.000000	6.17017e-16	1.000000
rad26	2.61478e-16	1.000000	3.49510e-16	1.000000
rad10	1.01288e-16	1.000000	1.35388e-16	1.000000
rad3	3.65175e-17	1.000000	4.88117e-17	1.000000
rad4	2.83744e-17	1.000000	3.79271e-17	1.000000
rad20	2.64415e-17	1.000000	3.53434e-17	1.000000
rad21	2.51401e-17	1.000000	3.36039e-17	1.000000
rad11	1.72868e-17	1.000000	2.31067e-17	1.000000
rad7	1.27399e-17	1.000000	1.70290e-17	1.000000
rad72	1.11076e-17	1.000000	1.48472e-17	1.000000
rad13	2.73326e-18	1.000000	3.65346e-18	1.000000
rad9	2.42639e-18	1.000000	3.24328e-18	1.000000
rad24	2.87053e-19	1.000000	3.83694e-19	1.000000
rad33	2.00025e-19	1.000000	2.67366e-19	1.000000
rad18	7.61284e-20	1.000000	1.01758e-19	1.000000
rad25	2.03006e-20	1.000000	2.71352e-20	1.000000
rad27	1.63775e-20	1.000000	2.18913e-20	1.000000
rad14	1.45479e-20	1.000000	1.94457e-20	1.000000
rad22	3.83297e-21	1.000000	5.12340e-21	1.000000
rad12	7.13516e-22	1.000000	9.53734e-22	1.000000
rad31	5.78730e-22	1.000000	7.73569e-22	1.000000
rad15	5.52202e-22	1.000000	7.38110e-22	1.000000
rad47	4.71184e-27	1.000000	6.29816e-27	1.000000
rad5	1.27845e-27	1.000000	1.70886e-27	1.000000
rad8	8.26838e-28	1.000000	1.10521e-27	1.000000

0.100000000E-08 Pa, 900.000000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	9.21769e-16 (1.00)	5.91948e-16 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.637601	0.637601	0.992859	0.992859
Benzyl+C2H2	0.357813	0.995414	0.000000	0.992859
PhCCH+CH3	0.00168534	0.997099	0.00262438	0.995483
PhCHCCH2+H	0.000988072	0.998087	0.00153861	0.997022
Ph+Allene	0.000956826	0.999044	0.00148995	0.998512
PhCH2CCH+H	0.000305642	0.999350	0.000475939	0.998988
Ph+MeAc	0.000221700	0.999572	0.000345227	0.999333
PhCCCH3+H	0.000192583	0.999764	0.000299886	0.999633
PAH7+H	8.18813e-05	0.999846	0.000127504	0.999760
rad30	6.20698e-05	0.999908	9.66537e-05	0.999857
PAH9+H	3.81793e-05	0.999946	5.94520e-05	0.999917
rad39	1.95088e-05	0.999966	3.03786e-05	0.999947
rad38	1.36528e-05	0.999979	2.12599e-05	0.999968
rad35	9.01875e-06	0.999988	1.40438e-05	0.999982
rad19anti	5.95507e-06	0.999994	9.27312e-06	0.999992
rad46	1.77409e-06	0.999996	2.76257e-06	0.999994
PAH3+H	1.66000e-06	0.999998	2.58491e-06	0.999997
rad60syn	7.95279e-07	0.999999	1.23839e-06	0.999998
rad60anti	4.32684e-07	0.999999	6.73766e-07	0.999999
rad59	2.41974e-07	0.999999	3.76797e-07	0.999999

rad37	1.83190e-07	1.000000	2.85260e-07	0.999999
rad19syn	1.72530e-07	1.000000	2.68660e-07	1.000000
rad50	1.19157e-07	1.000000	1.85549e-07	1.000000
rad54	4.18728e-08	1.000000	6.52034e-08	1.000000
PhcycC3H3_A+H	1.64006e-08	1.000000	2.55387e-08	1.000000
rad67	7.68849e-09	1.000000	1.19724e-08	1.000000
PAH10+CH3	5.46404e-09	1.000000	8.50849e-09	1.000000
rad51	5.02704e-09	1.000000	7.82799e-09	1.000000
rad52	3.84544e-09	1.000000	5.98804e-09	1.000000
rad70	3.82633e-09	1.000000	5.95829e-09	1.000000
PAH1+H	3.10814e-09	1.000000	4.83992e-09	1.000000
rad58	1.60256e-09	1.000000	2.49547e-09	1.000000
rad55	1.47818e-09	1.000000	2.30179e-09	1.000000
rad62	1.10198e-09	1.000000	1.71599e-09	1.000000
rad43	3.94154e-10	1.000000	6.13768e-10	1.000000
rad34	3.84578e-10	1.000000	5.98856e-10	1.000000
rad65	1.60295e-10	1.000000	2.49608e-10	1.000000
rad53	2.97668e-11	1.000000	4.63523e-11	1.000000
rad64	1.24766e-11	1.000000	1.94283e-11	1.000000
rad42	1.04398e-11	1.000000	1.62566e-11	1.000000
rad56	7.66797e-12	1.000000	1.19404e-11	1.000000
rad41	1.62748e-12	1.000000	2.53428e-12	1.000000
rad68syn	1.23548e-12	1.000000	1.92386e-12	1.000000
rad73	1.04234e-12	1.000000	1.62311e-12	1.000000
rad68anti	8.37597e-13	1.000000	1.30429e-12	1.000000
rad71	4.04405e-13	1.000000	6.29730e-13	1.000000
PAH8+H	3.69074e-13	1.000000	5.74714e-13	1.000000
rad61	1.15255e-13	1.000000	1.79472e-13	1.000000
rad40syn	1.13801e-13	1.000000	1.77208e-13	1.000000
rad40anti	4.54143e-14	1.000000	7.07183e-14	1.000000
rad6	1.11328e-14	1.000000	1.73357e-14	1.000000
rad23	4.91684e-15	1.000000	7.65640e-15	1.000000
rad45	2.56979e-15	1.000000	4.00162e-15	1.000000
rad2	1.16881e-15	1.000000	1.82004e-15	1.000000
rad72	6.17366e-16	1.000000	9.61349e-16	1.000000
rad36	2.20196e-16	1.000000	3.42885e-16	1.000000
rad28	1.98762e-16	1.000000	3.09508e-16	1.000000
rad1	1.95590e-16	1.000000	3.04569e-16	1.000000
rad20	6.04407e-17	1.000000	9.41170e-17	1.000000
rad26	5.23192e-17	1.000000	8.14704e-17	1.000000
rad21	5.11598e-17	1.000000	7.96650e-17	1.000000
rad10	2.14429e-17	1.000000	3.33904e-17	1.000000
rad11	1.79970e-17	1.000000	2.80245e-17	1.000000
rad9	1.24681e-17	1.000000	1.94151e-17	1.000000
rad3	1.19654e-17	1.000000	1.86323e-17	1.000000
rad4	9.01294e-18	1.000000	1.40348e-17	1.000000
rad7	8.57470e-18	1.000000	1.33523e-17	1.000000
rad13	6.34328e-18	1.000000	9.87762e-18	1.000000
rad24	5.74732e-19	1.000000	8.94960e-19	1.000000
rad33	3.65004e-19	1.000000	5.68376e-19	1.000000
rad18	2.21674e-19	1.000000	3.45186e-19	1.000000
rad25	2.20675e-20	1.000000	3.43631e-20	1.000000
rad27	1.37083e-20	1.000000	2.13463e-20	1.000000
rad14	1.05347e-20	1.000000	1.64045e-20	1.000000
rad22	4.55355e-21	1.000000	7.09068e-21	1.000000
rad12	3.93749e-21	1.000000	6.13137e-21	1.000000
rad15	1.96679e-21	1.000000	3.06264e-21	1.000000
rad31	3.17849e-22	1.000000	4.94948e-22	1.000000
rad8	5.05695e-25	1.000000	7.87458e-25	1.000000
rad47	3.22599e-26	1.000000	5.02344e-26	1.000000
rad5	3.36305e-27	1.000000	5.23687e-27	1.000000

0.100000000E-08 Pa, 1000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	2.23691e-15 (1.00)	1.20781e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Indene+H	0.533143	0.533143	0.987405	0.987405
Benzyl+C2H2	0.460056	0.993199	0.000000	0.987405
PhCCH+CH3	0.00197845	0.995177	0.00366418	0.991069
Ph+Allene	0.00184724	0.997025	0.00342117	0.994490
PhCHCCH2+H	0.00145011	0.998475	0.00268567	0.997176
PhCH2CCH+H	0.000695141	0.999170	0.00128743	0.998463
Ph+MeAc	0.000262360	0.999432	0.000485903	0.998949
PhCCCH3+H	0.000178027	0.999610	0.000329715	0.999279
PAH7+H	0.000130563	0.999741	0.000241809	0.999521
rad30	9.13367e-05	0.999832	0.000169160	0.999690

PAH9+H	6.89547e-05	0.999901	0.000127707	0.999818
rad39	3.03500e-05	0.999932	5.62096e-05	0.999874
rad38	2.54970e-05	0.999957	4.72216e-05	0.999921
rad35	1.54295e-05	0.999972	2.85761e-05	0.999950
rad19anti	1.36963e-05	0.999986	2.53661e-05	0.999975
PAH3+H	4.67729e-06	0.999991	8.66256e-06	0.999984
rad46	3.89964e-06	0.999995	7.22231e-06	0.999991
rad60syn	1.65646e-06	0.999996	3.06785e-06	0.999994
rad60anti	9.23124e-07	0.999997	1.70967e-06	0.999996
rad59	6.45414e-07	0.999998	1.19534e-06	0.999997
rad19syn	4.72655e-07	0.999998	8.75378e-07	0.999998
rad50	4.02263e-07	0.999999	7.45009e-07	0.999999
rad37	2.45621e-07	0.999999	4.54902e-07	0.999999
rad54	1.26767e-07	0.999999	2.34777e-07	0.999999
PhcycC3H3_A+H	6.09438e-08	0.999999	1.12871e-07	0.999999
rad67	3.29353e-08	0.999999	6.09977e-08	0.999999
rad51	2.38554e-08	0.999999	4.41812e-08	1.000000
rad52	1.55659e-08	0.999999	2.88287e-08	1.000000
PAH10+CH3	1.49501e-08	0.999999	2.76882e-08	1.000000
rad70	1.36637e-08	0.999999	2.53058e-08	1.000000
PAH1+H	1.19204e-08	0.999999	2.20771e-08	1.000000
rad58	7.00658e-09	0.999999	1.29765e-08	1.000000
rad55	5.08717e-09	0.999999	9.42168e-09	1.000000
rad62	2.86001e-09	0.999999	5.29688e-09	1.000000
rad34	1.59465e-09	0.999999	2.95336e-09	1.000000
rad43	8.01052e-10	0.999999	1.48358e-09	1.000000
rad65	7.61926e-10	0.999999	1.41112e-09	1.000000
rad53	1.57207e-10	0.999999	2.91154e-10	1.000000
rad64	6.32994e-11	0.999999	1.17233e-10	1.000000
rad56	5.17480e-11	0.999999	9.58396e-11	1.000000
rad42	3.80336e-11	0.999999	7.04399e-11	1.000000
rad73	1.18179e-11	0.999999	2.18873e-11	1.000000
rad68syn	8.78399e-12	0.999999	1.62684e-11	1.000000
rad68anti	5.91470e-12	0.999999	1.09543e-11	1.000000
rad71	5.72480e-12	0.999999	1.06026e-11	1.000000
rad41	5.10891e-12	0.999999	9.46194e-12	1.000000
PAH8+H	3.92400e-12	0.999999	7.26744e-12	1.000000
rad40syn	1.02743e-12	0.999999	1.90286e-12	1.000000
rad61	7.99639e-13	0.999999	1.48097e-12	1.000000
rad40anti	4.38114e-13	0.999999	8.11407e-13	1.000000
rad72	1.59923e-14	0.999999	2.96184e-14	1.000000
rad6	3.41944e-15	0.999999	6.33295e-15	1.000000
rad23	2.10416e-15	0.999999	3.89701e-15	1.000000
rad45	1.24477e-15	0.999999	2.30538e-15	1.000000
rad2	2.67911e-16	0.999999	4.96183e-16	1.000000
rad36	1.10480e-16	0.999999	2.04613e-16	1.000000
rad20	8.81739e-17	0.999999	1.63302e-16	1.000000
rad21	6.41659e-17	0.999999	1.18838e-16	1.000000
rad1	5.09969e-17	0.999999	9.44486e-17	1.000000
rad28	4.42180e-17	0.999999	8.18938e-17	1.000000
rad11	2.72580e-17	0.999999	5.04830e-17	1.000000
rad9	2.11868e-17	0.999999	3.92388e-17	1.000000
rad26	1.27849e-17	0.999999	2.36782e-17	1.000000
rad13	1.26758e-17	0.999999	2.34762e-17	1.000000
rad7	1.13206e-17	0.999999	2.09663e-17	1.000000
rad10	8.13677e-18	0.999999	1.50697e-17	1.000000
rad3	3.90079e-18	0.999999	7.22443e-18	1.000000
rad4	3.00260e-18	0.999999	5.56095e-18	1.000000
rad18	7.80183e-19	0.999999	1.44493e-18	1.000000
rad24	5.90769e-19	0.999999	1.09413e-18	1.000000
rad33	4.69537e-19	0.999999	8.69603e-19	1.000000
rad25	3.13967e-20	0.999999	5.81481e-20	1.000000
rad27	1.11645e-20	0.999999	2.06771e-20	1.000000
rad14	9.24131e-21	0.999999	1.71153e-20	1.000000
rad12	8.61558e-21	0.999999	1.59564e-20	1.000000
rad22	8.11171e-21	0.999999	1.50233e-20	1.000000
rad15	2.78384e-21	0.999999	5.15579e-21	1.000000
rad31	1.86001e-22	0.999999	3.44482e-22	1.000000
rad8	3.09659e-23	0.999999	5.73503e-23	1.000000
rad47	1.58916e-25	0.999999	2.94319e-25	1.000000
rad5	1.01551e-26	0.999999	1.88078e-26	1.000000

0.100000000E-08 Pa, 1100.00000 K
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Rate constant	True (fraction)	Effective (fraction)
Total	4.69847e-15 (1.00)	2.11075e-15 (1.00)
species	PYtrue Cumul	PYeffective Cumul

Benzyl+C2H2	0.550759	0.550759	0.00000	0.00000
Indene+H	0.439889	0.990648	0.979181	0.979181
Ph+Allene	0.00299528	0.993643	0.00666742	0.985848
PhCCH+CH3	0.00208760	0.995731	0.00464694	0.990495
PhCHCCH2+H	0.00194544	0.997676	0.00433051	0.994826
PhCH2CCH+H	0.00132191	0.998998	0.00294254	0.997768
Ph+MeAc	0.000277389	0.999276	0.000617461	0.998386
PAH7+H	0.000179385	0.999455	0.000399306	0.998785
PhCCCH3+H	0.000149168	0.999604	0.000332043	0.999117
rad30	0.000123015	0.999727	0.000273827	0.999391
PAH9+H	0.000111696	0.999839	0.000248632	0.999640
rad38	4.24978e-05	0.999881	9.45991e-05	0.999734
rad39	4.04278e-05	0.999922	8.99912e-05	0.999824
rad19anti	2.71780e-05	0.999949	6.04975e-05	0.999885
rad35	2.39104e-05	0.999973	5.32238e-05	0.999938
PAH3+H	1.09195e-05	0.999984	2.43064e-05	0.999962
rad46	7.44861e-06	0.999991	1.65804e-05	0.999979
rad60syn	2.99524e-06	0.999994	6.66734e-06	0.999986
rad60anti	1.70291e-06	0.999996	3.79064e-06	0.999989
rad59	1.43231e-06	0.999997	3.18828e-06	0.999993
rad50	1.10325e-06	0.999998	2.45580e-06	0.999995
rad19syn	1.02396e-06	1.000000	2.27932e-06	0.999997
rad37	3.04609e-07	1.000000	6.78052e-07	0.999998
rad54	2.97942e-07	1.000000	6.63211e-07	0.999999
PhcycC3H3_A+H	1.70469e-07	1.000000	3.79460e-07	0.999999
rad67	1.11020e-07	1.000000	2.47128e-07	0.999999
rad51	8.66313e-08	1.000000	1.92839e-07	0.999999
rad52	4.94924e-08	1.000000	1.10169e-07	1.000000
rad70	3.72387e-08	1.000000	8.28925e-08	1.000000
PAH10+CH3	3.55700e-08	1.000000	7.91778e-08	1.000000
PAH1+H	3.40420e-08	1.000000	7.57766e-08	1.000000
rad58	2.33985e-08	1.000000	5.20844e-08	1.000000
rad55	1.32727e-08	1.000000	2.95447e-08	1.000000
rad62	5.84585e-09	1.000000	1.30127e-08	1.000000
rad34	4.93270e-09	1.000000	1.09801e-08	1.000000
rad65	2.75373e-09	1.000000	6.12974e-09	1.000000
rad43	1.31323e-09	1.000000	2.92321e-09	1.000000
rad53	5.86805e-10	1.000000	1.30621e-09	1.000000
rad56	2.36331e-10	1.000000	5.26066e-10	1.000000
rad64	2.26679e-10	1.000000	5.04581e-10	1.000000
rad42	1.03252e-10	1.000000	2.29836e-10	1.000000
rad73	8.74237e-11	1.000000	1.94603e-10	1.000000
rad71	5.09990e-11	1.000000	1.13522e-10	1.000000
rad68syn	4.26221e-11	1.000000	9.48757e-11	1.000000
rad68anti	2.85345e-11	1.000000	6.35171e-11	1.000000
PAH8+H	2.67128e-11	1.000000	5.94621e-11	1.000000
rad41	1.21931e-11	1.000000	2.71415e-11	1.000000
rad40syn	6.09410e-12	1.000000	1.35653e-11	1.000000
rad61	4.16713e-12	1.000000	9.27593e-12	1.000000
rad40anti	2.75055e-12	1.000000	6.12265e-12	1.000000
rad72	2.32325e-13	1.000000	5.17150e-13	1.000000
rad6	1.48218e-15	1.000000	3.29930e-15	1.000000
rad23	9.89761e-16	1.000000	2.20318e-15	1.000000
rad45	6.20612e-16	1.000000	1.38147e-15	1.000000
rad20	7.93855e-17	1.000000	1.76710e-16	1.000000
rad2	6.88211e-17	1.000000	1.53194e-16	1.000000
rad36	5.65988e-17	1.000000	1.25988e-16	1.000000
rad21	5.10807e-17	1.000000	1.13704e-16	1.000000
rad11	4.54048e-17	1.000000	1.01070e-16	1.000000
rad9	2.20602e-17	1.000000	4.91055e-17	1.000000
rad7	2.02745e-17	1.000000	4.51305e-17	1.000000
rad13	1.66037e-17	1.000000	3.69594e-17	1.000000
rad1	1.44067e-17	1.000000	3.20689e-17	1.000000
rad28	1.29028e-17	1.000000	2.87213e-17	1.000000
rad10	5.59533e-18	1.000000	1.24551e-17	1.000000
rad26	4.07462e-18	1.000000	9.07000e-18	1.000000
rad18	2.44826e-18	1.000000	5.44977e-18	1.000000
rad3	1.36025e-18	1.000000	3.02787e-18	1.000000
rad4	1.06829e-18	1.000000	2.37798e-18	1.000000
rad24	4.56170e-19	1.000000	1.01542e-18	1.000000
rad33	3.94208e-19	1.000000	8.77497e-19	1.000000
rad25	3.94356e-20	1.000000	8.77826e-20	1.000000
rad22	2.08523e-20	1.000000	4.64168e-20	1.000000
rad12	1.26339e-20	1.000000	2.81227e-20	1.000000
rad14	7.49662e-21	1.000000	1.66873e-20	1.000000
rad27	7.01392e-21	1.000000	1.56128e-20	1.000000
rad15	2.77218e-21	1.000000	6.17081e-21	1.000000
rad8	3.02695e-22	1.000000	6.73791e-22	1.000000
rad31	1.11579e-22	1.000000	2.48372e-22	1.000000
rad47	5.97458e-25	1.000000	1.32993e-24	1.000000

rad5 | 3.56467e-26 1.00000 | 7.93487e-26 1.000000

0.100000000E-08 Pa, 1200.00000 K

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

Total | 8.84330e-15 (1.00) | 3.30079e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.626747	0.626747	0.00000	0.00000
Indene+H	0.361139	0.987886	0.967544	0.967544
Ph+Allene	0.00426331	0.992149	0.0114220	0.978966
PhCHCCH2+H	0.00242727	0.994577	0.00650302	0.985469
PhCH2CCH+H	0.00220912	0.996786	0.00591855	0.991388
PhCCH+CH3	0.00203529	0.998821	0.00545285	0.996840
Ph+MeAc	0.000271659	0.999093	0.000727814	0.997568
PAH7+H	0.000220958	0.999314	0.000591978	0.998160
PAH9+H	0.000166476	0.999480	0.000446015	0.998606
rad30	0.000155353	0.999635	0.000416215	0.999022
PhCCCH3+H	0.000117029	0.999752	0.000313538	0.999336
rad38	6.49367e-05	0.999817	0.000173975	0.999510
rad19anti	4.80909e-05	0.999865	0.000128843	0.999639
rad39	4.80571e-05	0.999914	0.000128752	0.999768
rad35	3.43899e-05	0.999948	9.21355e-05	0.999860
PAH3+H	2.21253e-05	0.999970	5.92770e-05	0.999919
rad46	1.27762e-05	0.999983	3.42294e-05	0.999953
rad60syn	4.87439e-06	0.999988	1.30592e-05	0.999966
rad60anti	2.81860e-06	0.999991	7.55145e-06	0.999974
rad59	2.76936e-06	0.999993	7.41953e-06	0.999981
rad50	2.57972e-06	0.999996	6.91144e-06	0.999988
rad19syn	1.86136e-06	0.999998	4.98686e-06	0.999993
rad54	5.79322e-07	0.999998	1.55209e-06	0.999995
PhcycC3H3_A+H	3.85542e-07	0.999999	1.03292e-06	0.999996
rad37	3.71909e-07	0.999999	9.96399e-07	0.999997
rad67	3.10056e-07	0.999999	8.30686e-07	0.999998
rad51	2.56406e-07	1.000000	6.86949e-07	0.999998
rad52	1.30814e-07	1.000000	3.50469e-07	0.999999
rad70	8.31661e-08	1.000000	2.22814e-07	0.999999
PAH10+CH3	7.86243e-08	1.000000	2.10646e-07	0.999999
PAH1+H	7.84240e-08	1.000000	2.10109e-07	0.999999
rad58	6.38230e-08	1.000000	1.70991e-07	0.999999
rad55	2.81615e-08	1.000000	7.54487e-08	0.999999
rad34	1.22937e-08	1.000000	3.29365e-08	0.999999
rad62	1.00322e-08	1.000000	2.68777e-08	1.000000
rad65	8.07952e-09	1.000000	2.16462e-08	1.000000
rad43	1.86209e-09	1.000000	4.98881e-09	1.000000
rad53	1.69057e-09	1.000000	4.52927e-09	1.000000
rad56	8.06531e-10	1.000000	2.16081e-09	1.000000
rad64	6.30249e-10	1.000000	1.68853e-09	1.000000
rad73	4.67949e-10	1.000000	1.25370e-09	1.000000
rad71	3.19752e-10	1.000000	8.56663e-10	1.000000
rad42	2.25979e-10	1.000000	6.05431e-10	1.000000
rad68syn	1.55936e-10	1.000000	4.17774e-10	1.000000
PAH8+H	1.30631e-10	1.000000	3.49980e-10	1.000000
rad68anti	1.03878e-10	1.000000	2.78304e-10	1.000000
rad40syn	2.64822e-11	1.000000	7.09497e-11	1.000000
rad41	2.43325e-11	1.000000	6.51903e-11	1.000000
rad61	1.76266e-11	1.000000	4.72244e-11	1.000000
rad40anti	1.25561e-11	1.000000	3.36398e-11	1.000000
rad72	2.17907e-12	1.000000	5.83804e-12	1.000000
rad6	9.23755e-16	1.000000	2.47487e-15	1.000000
rad23	4.82969e-16	1.000000	1.29395e-15	1.000000
rad45	3.19983e-16	1.000000	8.57281e-16	1.000000
rad11	6.24154e-17	1.000000	1.67220e-16	1.000000
rad20	5.25317e-17	1.000000	1.40740e-16	1.000000
rad7	3.47383e-17	1.000000	9.30690e-17	1.000000
rad21	3.17166e-17	1.000000	8.49734e-17	1.000000
rad36	2.97281e-17	1.000000	7.96460e-17	1.000000
rad9	1.96329e-17	1.000000	5.25993e-17	1.000000
rad2	1.93977e-17	1.000000	5.19693e-17	1.000000
rad13	1.37588e-17	1.000000	3.68619e-17	1.000000
rad28	5.29203e-18	1.000000	1.41781e-17	1.000000
rad18	5.20685e-18	1.000000	1.39499e-17	1.000000
rad10	4.44569e-18	1.000000	1.19107e-17	1.000000
rad1	4.27822e-18	1.000000	1.14620e-17	1.000000
rad26	1.72669e-18	1.000000	4.62607e-18	1.000000
rad3	5.02108e-19	1.000000	1.34522e-18	1.000000
rad4	4.00088e-19	1.000000	1.07189e-18	1.000000
rad24	3.33436e-19	1.000000	8.93325e-19	1.000000

rad33	2.51828e-19	1.00000	6.74684e-19	1.000000
rad22	6.96886e-20	1.00000	1.86706e-19	1.000000
rad25	3.68476e-20	1.00000	9.87200e-20	1.000000
rad12	1.57452e-20	1.00000	4.21838e-20	1.000000
rad14	4.93370e-21	1.00000	1.32181e-20	1.000000
rad15	4.59581e-21	1.00000	1.23129e-20	1.000000
rad27	3.32748e-21	1.00000	8.91479e-21	1.000000
rad8	9.89268e-22	1.00000	2.65039e-21	1.000000
rad31	6.76592e-23	1.00000	1.81269e-22	1.000000
rad47	1.81317e-24	1.00000	4.85774e-24	1.000000
rad5	1.36023e-25	1.00000	3.64424e-25	1.000000

0.1000000000E-08 Pa, 1300.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.52810e-14 (1.00)	4.76644e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.688080	0.688080	0.000000	0.000000
Indene+H	0.296944	0.985024	0.951986	0.951986
Ph+Allene	0.00550433	0.990528	0.0176466	0.969633
PhCH2CCH+H	0.00336231	0.993891	0.0107794	0.980412
PhCHCCH2+H	0.00286585	0.996756	0.00918775	0.989600
PhCCH+CH3	0.00187197	0.998628	0.00600145	0.995601
Ph+MeAc	0.000252917	0.998881	0.000810838	0.996412
PAH7+H	0.000251839	0.999133	0.000807383	0.997219
PAH9+H	0.000232565	0.999366	0.000745592	0.997965
rad30	0.000187145	0.999553	0.000599977	0.998565
rad38	9.27358e-05	0.999646	0.000297306	0.998862
PhCCCH3+H	8.81977e-05	0.999734	0.000282757	0.999145
rad19anti	7.76866e-05	0.999812	0.000249059	0.999394
rad39	5.27138e-05	0.999864	0.000168998	0.999563
rad35	4.67240e-05	0.999911	0.000149795	0.999713
PAH3+H	4.01931e-05	0.999951	0.000128857	0.999842
rad46	2.01481e-05	0.999971	6.45939e-05	0.999906
rad60syn	7.32140e-06	0.999979	2.34720e-05	0.999930
rad50	5.32215e-06	0.999984	1.70625e-05	0.999947
rad59	4.81766e-06	0.999989	1.54452e-05	0.999962
rad60anti	4.29551e-06	0.999993	1.37712e-05	0.999976
rad19syn	2.96344e-06	0.999996	9.50065e-06	0.999986
rad54	9.75309e-07	0.999997	3.12679e-06	0.999989
rad67	7.44257e-07	0.999998	2.38605e-06	0.999991
PhcycC3H3_A+H	7.41843e-07	0.999999	2.37831e-06	0.999993
rad51	6.46585e-07	0.999999	2.07292e-06	0.999996
rad37	4.66727e-07	1.000000	1.49630e-06	0.999997
rad52	2.99170e-07	1.000000	9.59124e-07	0.999998
PAH10+CH3	1.66594e-07	1.000000	5.34093e-07	0.999999
rad70	1.60097e-07	1.000000	5.13264e-07	0.999999
PAH1+H	1.54574e-07	1.000000	4.95557e-07	1.000000
rad58	1.48959e-07	1.000000	4.77556e-07	1.000000
rad55	5.10750e-08	1.000000	1.63744e-07	1.000000
rad34	2.60671e-08	1.000000	8.35698e-08	1.000000
rad65	2.01508e-08	1.000000	6.46025e-08	1.000000
rad62	1.51327e-08	1.000000	4.85146e-08	1.000000
rad53	3.99906e-09	1.000000	1.28208e-08	1.000000
rad43	2.42224e-09	1.000000	7.76557e-09	1.000000
rad56	2.20471e-09	1.000000	7.06819e-09	1.000000
rad73	1.94724e-09	1.000000	6.24276e-09	1.000000
rad71	1.52459e-09	1.000000	4.88774e-09	1.000000
rad64	1.45722e-09	1.000000	4.67176e-09	1.000000
PAH8+H	4.97086e-10	1.000000	1.59363e-09	1.000000
rad68syn	4.61120e-10	1.000000	1.47833e-09	1.000000
rad42	4.21653e-10	1.000000	1.35180e-09	1.000000
rad68anti	3.05850e-10	1.000000	9.80538e-10	1.000000
rad40syn	9.09556e-11	1.000000	2.91599e-10	1.000000
rad61	6.30316e-11	1.000000	2.02076e-10	1.000000
rad40anti	4.50261e-11	1.000000	1.44351e-10	1.000000
rad41	4.39793e-11	1.000000	1.40995e-10	1.000000
rad72	1.45373e-11	1.000000	4.66058e-11	1.000000
rad6	7.93287e-16	1.000000	2.54324e-15	1.000000
rad23	2.47408e-16	1.000000	7.93177e-16	1.000000
rad45	1.69445e-16	1.000000	5.43232e-16	1.000000
rad11	6.08066e-17	1.000000	1.94943e-16	1.000000
rad7	4.45349e-17	1.000000	1.42776e-16	1.000000
rad20	3.18168e-17	1.000000	1.02003e-16	1.000000
rad21	1.87706e-17	1.000000	6.01774e-17	1.000000
rad9	1.62545e-17	1.000000	5.21112e-17	1.000000
rad36	1.60118e-17	1.000000	5.13329e-17	1.000000

rad13	8.37361e-18	1.00000	2.68454e-17	1.00000
rad18	6.76196e-18	1.00000	2.16785e-17	1.00000
rad2	5.75958e-18	1.00000	1.84649e-17	1.00000
rad28	3.13351e-18	1.00000	1.00459e-17	1.00000
rad10	2.88296e-18	1.00000	9.24262e-18	1.00000
rad1	1.31482e-18	1.00000	4.21523e-18	1.00000
rad26	9.19520e-19	1.00000	2.94793e-18	1.00000
rad22	2.57640e-19	1.00000	8.25979e-19	1.00000
rad24	2.44030e-19	1.00000	7.82347e-19	1.00000
rad3	1.94271e-19	1.00000	6.22822e-19	1.00000
rad4	1.56579e-19	1.00000	5.01985e-19	1.00000
rad33	1.48882e-19	1.00000	4.77307e-19	1.00000
rad25	2.76125e-20	1.00000	8.85244e-20	1.00000
rad15	1.98989e-20	1.00000	6.37948e-20	1.00000
rad12	1.79600e-20	1.00000	5.75787e-20	1.00000
rad14	2.71726e-21	1.00000	8.71141e-21	1.00000
rad8	1.89596e-21	1.00000	6.07834e-21	1.00000
rad27	1.34953e-21	1.00000	4.32651e-21	1.00000
rad31	4.14038e-23	1.00000	1.32738e-22	1.00000
rad47	4.64662e-24	1.00000	1.48968e-23	1.00000
rad5	4.99292e-25	1.00000	1.60070e-24	1.00000

0.100000000E-08 Pa, 1400.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.46691e-14 (1.00)	6.50155e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.736450	0.736450	0.00000	0.00000
Indene+H	0.245659	0.982109	0.932117	0.932117
Ph+Allene	0.00660861	0.988718	0.0250754	0.957192
PhCH2CCH+H	0.00478128	0.993499	0.0181419	0.975334
PhCHCCH2+H	0.00325578	0.996755	0.0123536	0.987688
PhCCH+CH3	0.00165084	0.998406	0.00626388	0.993952
PAH9+H	0.000308661	0.998714	0.00117117	0.995123
PAH7+H	0.000272630	0.998987	0.00103445	0.996157
Ph+MeAc	0.000228420	0.999215	0.000866707	0.997024
rad30	0.000217655	0.999433	0.000825859	0.997850
rad38	0.000125529	0.999558	0.000476301	0.998326
rad19anti	0.000116511	0.999675	0.000442085	0.998768
PAH3+H	6.69984e-05	0.999742	0.000254215	0.999023
PhCCCH3+H	6.53819e-05	0.999807	0.000248082	0.999271
rad35	6.07397e-05	0.999868	0.000230468	0.999501
rad39	5.49305e-05	0.999923	0.000208426	0.999710
rad46	2.97185e-05	0.999953	0.000112762	0.999822
rad60syn	1.03332e-05	0.999963	3.92077e-05	0.999862
rad50	9.93210e-06	0.999973	3.76859e-05	0.999899
rad59	7.71556e-06	0.999981	2.92756e-05	0.999928
rad60anti	6.13929e-06	0.999987	2.32946e-05	0.999952
rad19syn	4.26609e-06	0.999991	1.61870e-05	0.999968
rad67	1.57759e-06	0.999993	5.98594e-06	0.999974
rad54	1.46998e-06	0.999994	5.57763e-06	0.999980
rad51	1.43445e-06	0.999996	5.44280e-06	0.999985
PhcycC3H3_A+H	1.26043e-06	0.999997	4.78252e-06	0.999990
rad37	6.13241e-07	0.999997	2.32685e-06	0.999992
rad52	6.09458e-07	0.999998	2.31250e-06	0.999994
PAH10+CH3	3.40070e-07	0.999998	1.29034e-06	0.999996
rad58	3.07503e-07	0.999999	1.16677e-06	0.999997
rad70	2.75599e-07	0.999999	1.04572e-06	0.999998
PAH1+H	2.72543e-07	0.999999	1.03413e-06	0.999999
rad55	8.21114e-08	0.999999	3.11559e-07	0.999999
rad34	4.89123e-08	0.999999	1.85590e-07	0.999999
rad65	4.41608e-08	0.999999	1.67561e-07	1.000000
rad62	2.07591e-08	0.999999	7.87674e-08	1.000000
rad53	8.12265e-09	0.999999	3.08202e-08	1.000000
rad73	6.62662e-09	0.999999	2.51437e-08	1.000000
rad71	5.83659e-09	0.999999	2.21461e-08	1.000000
rad56	5.07502e-09	0.999999	1.92564e-08	1.000000
rad43	3.05585e-09	0.999999	1.15950e-08	1.000000
rad64	2.94785e-09	0.999999	1.11852e-08	1.000000
PAH8+H	1.55760e-09	0.999999	5.91010e-09	1.000000
rad68syn	1.15822e-09	0.999999	4.39468e-09	1.000000
rad68anti	7.65284e-10	0.999999	2.90376e-09	1.000000
rad42	6.99013e-10	0.999999	2.65230e-09	1.000000
rad40syn	2.60577e-10	0.999999	9.88719e-10	1.000000
rad61	1.94739e-10	0.999999	7.38907e-10	1.000000
rad40anti	1.33993e-10	0.999999	5.08417e-10	1.000000
rad41	7.68994e-11	0.999999	2.91783e-10	1.000000

rad72	7.37095e-11	0.999999	2.79680e-10	1.000000
rad6	8.49230e-16	0.999999	3.22228e-15	1.000000
rad45	8.20203e-17	0.999999	3.11214e-16	1.000000
rad11	4.33198e-17	0.999999	1.64371e-16	1.000000
rad7	3.93372e-17	0.999999	1.49259e-16	1.000000
rad20	1.95003e-17	0.999999	7.39910e-17	1.000000
rad9	1.29032e-17	0.999999	4.89591e-17	1.000000
rad21	1.13739e-17	0.999999	4.31567e-17	1.000000
rad36	8.44250e-18	0.999999	3.20338e-17	1.000000
rad18	5.84528e-18	0.999999	2.21791e-17	1.000000
rad13	4.53171e-18	0.999999	1.71949e-17	1.000000
rad28	2.53995e-18	0.999999	9.63748e-18	1.000000
rad2	1.54831e-18	0.999999	5.87482e-18	1.000000
rad10	1.40850e-18	0.999999	5.34434e-18	1.000000
rad22	8.73635e-19	0.999999	3.31488e-18	1.000000
rad26	5.48369e-19	0.999999	2.08071e-18	1.000000
rad1	3.94335e-19	0.999999	1.49625e-18	1.000000
rad23	3.39192e-19	0.999999	1.28701e-18	1.000000
rad24	1.80067e-19	0.999999	6.83237e-19	1.000000
rad33	8.79957e-20	0.999999	3.33886e-19	1.000000
rad3	7.84525e-20	0.999999	2.97676e-19	1.000000
rad4	6.38573e-20	0.999999	2.42297e-19	1.000000
rad15	6.27633e-20	0.999999	2.38146e-19	1.000000
rad12	1.93287e-20	0.999999	7.33399e-20	1.000000
rad25	1.92135e-20	0.999999	7.29027e-20	1.000000
rad8	2.79512e-21	0.999999	1.06057e-20	1.000000
rad14	1.41990e-21	0.999999	5.38760e-21	1.000000
rad27	5.43615e-22	0.999999	2.06266e-21	1.000000
rad31	2.56226e-23	0.999999	9.72211e-23	1.000000
rad47	1.04027e-23	0.999999	3.94715e-23	1.000000
rad5	1.53972e-24	0.999999	5.84224e-24	1.000000

0.100000000E-08 Pa, 1500.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.76908e-14 (1.00)	8.51560e-15 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.774067	0.774067	0.00000	0.00000
Indene+H	0.205065	0.979132	0.907636	0.907636
Ph+Allene	0.00752036	0.986652	0.0332858	0.940922
PhCH2CCH+H	0.00646723	0.993120	0.0286246	0.969546
PhCHCCH2+H	0.00361205	0.996732	0.0159873	0.985534
PhCCH+CH3	0.00141397	0.998146	0.00625837	0.991792
PAH9+H	0.000393094	0.998539	0.00173987	0.993532
PAH7+H	0.000286546	0.998825	0.00126828	0.994800
rad30	0.000246477	0.999072	0.00109093	0.995891
Ph+MeAc	0.000203626	0.999275	0.000901268	0.996792
rad19anti	0.000164236	0.999440	0.000726923	0.997519
rad38	0.000162728	0.999602	0.000720251	0.998240
PAH3+H	0.000104218	0.999707	0.000461281	0.998701
rad35	7.62565e-05	0.999783	0.000337518	0.999038
rad39	5.58557e-05	0.999839	0.000247223	0.999286
PhCCCH3+H	4.89506e-05	0.999888	0.000216660	0.999502
rad46	4.15217e-05	0.999929	0.000183779	0.999686
rad50	1.70754e-05	0.999946	7.55771e-05	0.999762
rad60syn	1.38815e-05	0.999960	6.14410e-05	0.999823
rad59	1.15663e-05	0.999972	5.11935e-05	0.999874
rad60anti	8.33859e-06	0.999980	3.69074e-05	0.999911
rad19syn	5.68956e-06	0.999986	2.51825e-05	0.999936
rad67	3.01383e-06	0.999989	1.33395e-05	0.999950
rad51	2.86542e-06	0.999992	1.26826e-05	0.999962
rad54	2.03370e-06	0.999994	9.00134e-06	0.999971
PhcycC3H3_A+H	1.94411e-06	0.999996	8.60479e-06	0.999980
rad52	1.12959e-06	0.999997	4.99968e-06	0.999985
rad37	8.38280e-07	0.999997	3.71030e-06	0.999989
PAH10+CH3	6.63376e-07	0.999998	2.93617e-06	0.999992
rad58	5.75067e-07	0.999999	2.54530e-06	0.999994
PAH1+H	4.44629e-07	0.999999	1.96797e-06	0.999996
rad70	4.35873e-07	1.000000	1.92921e-06	0.999998
rad55	1.20222e-07	1.000000	5.32112e-07	0.999999
rad65	8.70999e-08	1.000000	3.85512e-07	0.999999
rad34	8.35876e-08	1.000000	3.69966e-07	0.999999
rad62	2.65880e-08	1.000000	1.17681e-07	0.999999
rad73	1.91029e-08	1.000000	8.45513e-08	1.000000
rad71	1.86182e-08	1.000000	8.24060e-08	1.000000
rad53	1.46409e-08	1.000000	6.48019e-08	1.000000
rad56	1.02046e-08	1.000000	4.51664e-08	1.000000

rad64	5.41559e-09	1.00000	2.39699e-08	1.000000
PAH8+H	4.18063e-09	1.00000	1.85038e-08	1.000000
rad43	3.92947e-09	1.00000	1.73922e-08	1.000000
rad68syn	2.56012e-09	1.00000	1.13313e-08	1.000000
rad68anti	1.68587e-09	1.00000	7.46183e-09	1.000000
rad42	1.06259e-09	1.00000	4.70314e-09	1.000000
rad40syn	6.46765e-10	1.00000	2.86264e-09	1.000000
rad61	5.26863e-10	1.00000	2.33195e-09	1.000000
rad40anti	3.43892e-10	1.00000	1.52210e-09	1.000000
rad72	2.96653e-10	1.00000	1.31301e-09	1.000000
rad41	1.35344e-10	1.00000	5.99046e-10	1.000000
rad6	9.76078e-16	1.00000	4.32021e-15	1.000000
rad45	4.62801e-17	1.00000	2.04840e-16	1.000000
rad11	2.60220e-17	1.00000	1.15176e-16	1.000000
rad7	2.59119e-17	1.00000	1.14689e-16	1.000000
rad20	1.23074e-17	1.00000	5.44737e-17	1.000000
rad9	1.00024e-17	1.00000	4.42718e-17	1.000000
rad21	7.10953e-18	1.00000	3.14675e-17	1.000000
rad36	4.82685e-18	1.00000	2.13641e-17	1.000000
rad18	4.05516e-18	1.00000	1.79485e-17	1.000000
rad28	2.45916e-18	1.00000	1.08845e-17	1.000000
rad13	2.40577e-18	1.00000	1.06482e-17	1.000000
rad22	2.28959e-18	1.00000	1.01339e-17	1.000000
rad23	1.66438e-18	1.00000	7.36670e-18	1.000000
rad10	5.61902e-19	1.00000	2.48703e-18	1.000000
rad2	5.00333e-19	1.00000	2.21452e-18	1.000000
rad26	3.23137e-19	1.00000	1.43024e-18	1.000000
rad24	1.34246e-19	1.00000	5.94185e-19	1.000000
rad1	1.29995e-19	1.00000	5.75372e-19	1.000000
rad15	1.14509e-19	1.00000	5.06828e-19	1.000000
rad33	5.25041e-20	1.00000	2.32388e-19	1.000000
rad3	3.29908e-20	1.00000	1.46020e-19	1.000000
rad4	2.70900e-20	1.00000	1.19903e-19	1.000000
rad12	1.99725e-20	1.00000	8.84000e-20	1.000000
rad25	1.32639e-20	1.00000	5.87071e-20	1.000000
rad8	3.57803e-21	1.00000	1.58367e-20	1.000000
rad14	7.59784e-22	1.00000	3.36288e-21	1.000000
rad27	2.30896e-22	1.00000	1.02197e-21	1.000000
rad47	2.08549e-23	1.00000	9.23059e-23	1.000000
rad31	1.60839e-23	1.00000	7.11887e-23	1.000000
rad5	3.57655e-24	1.00000	1.58302e-23	1.000000

0.100000000E-08 Pa, 1750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	9.18604e-14 (1.00)	1.49145e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.837640	0.837640	0.00000	0.00000
Indene+H	0.133064	0.970704	0.819559	0.819559
PhCH2CCH+H	0.0118056	0.982510	0.0727127	0.892272
Ph+Allene	0.00950091	0.992011	0.0585175	0.950789
PhCHCCH2+H	0.00446803	0.996479	0.0275192	0.978308
PhCCH+CH3	0.000861597	0.997340	0.00530671	0.983615
PAH9+H	0.000556652	0.997897	0.00342850	0.987044
rad30	0.000325000	0.998222	0.00200173	0.989045
rad19anti	0.000321503	0.998543	0.00198018	0.991026
rad38	0.000287109	0.998830	0.00176835	0.992794
PAH7+H	0.000286344	0.999117	0.00176363	0.994557
PAH3+H	0.000275296	0.999392	0.00169559	0.996253
Ph+MeAc	0.000167695	0.999560	0.00103286	0.997286
rad35	0.000110066	0.999670	0.000677915	0.997964
rad46	7.52920e-05	0.999745	0.000463735	0.998428
rad39	5.82425e-05	0.999803	0.000358724	0.998786
rad50	4.36581e-05	0.999847	0.000268897	0.999055
PhCCCH3+H	3.20470e-05	0.999879	0.000197382	0.999253
rad59	2.75338e-05	0.999907	0.000169584	0.999422
rad60syn	2.64498e-05	0.999933	0.000162908	0.999585
rad60anti	1.77452e-05	0.999951	0.000109295	0.999694
rad51	1.06304e-05	0.999961	6.54744e-05	0.999760
rad67	1.00266e-05	0.999971	6.17554e-05	0.999822
rad19syn	8.12817e-06	0.999980	5.00626e-05	0.999872
PhcycC3H3_A+H	4.32964e-06	0.999984	2.66669e-05	0.999898
rad52	3.62585e-06	0.999988	2.23321e-05	0.999921
rad54	3.10468e-06	0.999991	1.91222e-05	0.999940
PAH10+CH3	2.60306e-06	0.999993	1.60326e-05	0.999956
rad58	2.01823e-06	0.999995	1.24306e-05	0.999968
rad37	1.70772e-06	0.999997	1.05181e-05	0.999979

PAH1+H	1.10635e-06	0.999998	6.81419e-06	0.999986
rad70	1.04847e-06	0.999999	6.45765e-06	0.999992
rad65	3.08348e-07	0.999999	1.89916e-06	0.999994
rad34	2.42002e-07	1.000000	1.49052e-06	0.999995
rad55	2.29000e-07	1.000000	1.41044e-06	0.999997
rad71	1.90753e-07	1.000000	1.17488e-06	0.999998
rad73	1.56380e-07	1.000000	9.63167e-07	0.999999
rad53	4.44390e-08	1.000000	2.73707e-07	0.999999
rad62	4.00911e-08	1.000000	2.46927e-07	1.000000
rad56	3.57943e-08	1.000000	2.20463e-07	1.000000
PAH8+H	2.43959e-08	1.000000	1.50258e-07	1.000000
rad64	1.92943e-08	1.000000	1.18836e-07	1.000000
rad68syn	1.20123e-08	1.000000	7.39857e-08	1.000000
rad43	8.60713e-09	1.000000	5.30126e-08	1.000000
rad68anti	7.79056e-09	1.000000	4.79832e-08	1.000000
rad72	5.35919e-09	1.000000	3.30080e-08	1.000000
rad40syn	3.52157e-09	1.000000	2.16899e-08	1.000000
rad61	3.50342e-09	1.000000	2.15781e-08	1.000000
rad42	2.39318e-09	1.000000	1.47399e-08	1.000000
rad40anti	2.09783e-09	1.000000	1.29208e-08	1.000000
rad41	5.64325e-10	1.000000	3.47576e-09	1.000000
rad6	7.39278e-16	1.000000	4.55332e-15	1.000000
rad23	2.74781e-17	1.000000	1.69241e-16	1.000000
rad22	5.56058e-18	1.000000	3.42484e-17	1.000000
rad45	4.78435e-18	1.000000	2.94675e-17	1.000000
rad7	2.69969e-18	1.000000	1.66278e-17	1.000000
rad11	2.49376e-18	1.000000	1.53595e-17	1.000000
rad28	1.72226e-18	1.000000	1.06076e-17	1.000000
rad9	1.33095e-18	1.000000	8.19752e-18	1.000000
rad20	1.26283e-18	1.000000	7.77797e-18	1.000000
rad36	8.35505e-19	1.000000	5.14600e-18	1.000000
rad21	6.65178e-19	1.000000	4.09693e-18	1.000000
rad18	5.81036e-19	1.000000	3.57869e-18	1.000000
rad13	1.40330e-19	1.000000	8.64316e-19	1.000000
rad15	6.72937e-20	1.000000	4.14472e-19	1.000000
rad26	4.54686e-20	1.000000	2.80048e-19	1.000000
rad10	2.37213e-20	1.000000	1.46103e-19	1.000000
rad24	1.70134e-20	1.000000	1.04788e-19	1.000000
rad2	9.71002e-21	1.000000	5.98055e-20	1.000000
rad12	4.26945e-21	1.000000	2.62962e-20	1.000000
rad33	3.32918e-21	1.000000	2.05049e-20	1.000000
rad1	2.55696e-21	1.000000	1.57487e-20	1.000000
rad8	1.74118e-21	1.000000	1.07242e-20	1.000000
rad25	1.29129e-21	1.000000	7.95327e-21	1.000000
rad3	8.06122e-22	1.000000	4.96503e-21	1.000000
rad4	5.19118e-22	1.000000	3.19732e-21	1.000000
rad14	5.21560e-23	1.000000	3.21236e-22	1.000000
rad47	2.44663e-23	1.000000	1.50692e-22	1.000000
rad5	1.25547e-23	1.000000	7.73264e-23	1.000000
rad27	9.07042e-24	1.000000	5.58660e-23	1.000000

0.100000000E-08 Pa, 2000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.85359e-13 (1.00)	2.47588e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866428	0.866428	0.00000	0.00000
Indene+H	0.0943885	0.960816	0.706650	0.706650
PhCH2CCH+H	0.0189358	0.979752	0.141765	0.848415
Ph+Allene	0.0101088	0.989861	0.0756807	0.924096
PhCHCCH2+H	0.00579099	0.995652	0.0433549	0.967451
PAH9+H	0.000765251	0.996417	0.00572913	0.973180
PhCCH+CH3	0.000550354	0.996968	0.00412028	0.977300
PAH3+H	0.000526246	0.997494	0.00393980	0.981240
rad19anti	0.000486607	0.997981	0.00364303	0.984883
rad38	0.000411538	0.998392	0.00308103	0.987964
rad30	0.000378289	0.998770	0.00283210	0.990796
PAH7+H	0.000350388	0.999121	0.00262322	0.993419
Ph+MeAc	0.000164748	0.999286	0.00123340	0.994653
rad35	0.000155515	0.999441	0.00116428	0.995817
rad46	0.000120109	0.999561	0.000899212	0.996716
rad50	9.58270e-05	0.999657	0.000717420	0.997434
rad39	7.87039e-05	0.999736	0.000589225	0.998023
rad59	4.92026e-05	0.999785	0.000368361	0.998391
rad60syn	4.01110e-05	0.999825	0.000300295	0.998691
PhCCCH3+H	3.61306e-05	0.999861	0.000270495	0.998962
rad51	2.92772e-05	0.999890	0.000219187	0.999181

rad60anti	2.75040e-05	0.999918	0.000205912	0.999387
rad67	2.43946e-05	0.999942	0.000182633	0.999570
rad19syn	1.17085e-05	0.999954	8.76566e-05	0.999657
rad52	8.84586e-06	0.999963	6.62255e-05	0.999723
PAH10+CH3	7.72771e-06	0.999971	5.78543e-05	0.999781
PhcycC3H3_A+H	7.44556e-06	0.999978	5.57420e-05	0.999837
rad58	5.03691e-06	0.999983	3.77093e-05	0.999875
rad54	4.34710e-06	0.999987	3.25450e-05	0.999907
rad37	3.43690e-06	0.999991	2.57307e-05	0.999933
PAH1+H	2.74924e-06	0.999994	2.05825e-05	0.999954
rad70	2.09354e-06	0.999996	1.56735e-05	0.999969
rad71	1.06961e-06	0.999997	8.00777e-06	0.999977
rad65	8.19688e-07	0.999998	6.13669e-06	0.999983
rad73	7.43910e-07	0.999998	5.56936e-06	0.999989
rad34	5.52321e-07	0.999999	4.13501e-06	0.999993
rad55	3.53324e-07	0.999999	2.64520e-06	0.999996
PAH8+H	1.14510e-07	0.999999	8.57294e-07	0.999997
rad53	9.72438e-08	0.999999	7.28027e-07	0.999997
rad56	9.21215e-08	1.000000	6.89678e-07	0.999998
rad62	6.00485e-08	1.000000	4.49560e-07	0.999999
rad64	5.57952e-08	1.000000	4.17717e-07	0.999999
rad72	4.29765e-08	1.000000	3.21748e-07	0.999999
rad68syn	4.11172e-08	1.000000	3.07828e-07	1.000000
rad68anti	2.65281e-08	1.000000	1.98605e-07	1.000000
rad43	2.20258e-08	1.000000	1.64898e-07	1.000000
rad61	1.54174e-08	1.000000	1.15424e-07	1.000000
rad40syn	1.44056e-08	1.000000	1.07849e-07	1.000000
rad40anti	9.08224e-09	1.000000	6.79952e-08	1.000000
rad42	4.93493e-09	1.000000	3.69459e-08	1.000000
rad41	1.99345e-09	1.000000	1.49241e-08	1.000000
rad6	9.64299e-17	1.000000	7.21933e-16	1.000000
rad23	1.62949e-17	1.000000	1.21994e-16	1.000000
rad45	1.59012e-18	1.000000	1.19046e-17	1.000000
rad22	1.52678e-18	1.000000	1.14304e-17	1.000000
rad9	6.76994e-19	1.000000	5.06839e-18	1.000000
rad11	5.37251e-19	1.000000	4.02218e-18	1.000000
rad20	5.29552e-19	1.000000	3.96455e-18	1.000000
rad7	4.21419e-19	1.000000	3.15500e-18	1.000000
rad28	3.28588e-19	1.000000	2.46001e-18	1.000000
rad36	2.85828e-19	1.000000	2.13988e-18	1.000000
rad21	2.72287e-19	1.000000	2.03851e-18	1.000000
rad18	1.62503e-19	1.000000	1.21659e-18	1.000000
rad15	3.62729e-20	1.000000	2.71561e-19	1.000000
rad13	3.15019e-20	1.000000	2.35842e-19	1.000000
rad24	9.49359e-21	1.000000	7.10748e-20	1.000000
rad26	6.44767e-21	1.000000	4.82712e-20	1.000000
rad12	3.72963e-21	1.000000	2.79223e-20	1.000000
rad10	2.39717e-21	1.000000	1.79467e-20	1.000000
rad8	2.00223e-21	1.000000	1.49899e-20	1.000000
rad33	1.02784e-21	1.000000	7.69507e-21	1.000000
rad2	9.05340e-22	1.000000	6.77792e-21	1.000000
rad25	5.51560e-22	1.000000	4.12931e-21	1.000000
rad1	2.52367e-22	1.000000	1.88938e-21	1.000000
rad3	1.39618e-22	1.000000	1.04527e-21	1.000000
rad4	9.05253e-23	1.000000	6.77727e-22	1.000000
rad47	6.72667e-23	1.000000	5.03600e-22	1.000000
rad5	1.86942e-23	1.000000	1.39956e-22	1.000000
rad14	1.43912e-23	1.000000	1.07741e-22	1.000000
rad27	2.36914e-24	1.000000	1.77368e-23	1.000000

0.100000000E-08 Pa, 2250.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.29136e-13 (1.00)	4.00875e-14 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.878204	0.878204	0.00000	0.00000
Indene+H	0.0703003	0.948504	0.577195	0.577195
PhCH2CCH+H	0.0277459	0.976250	0.227806	0.805001
Ph+Allene	0.0105974	0.986848	0.0870088	0.892010
PhCHCCH2+H	0.00765656	0.994504	0.0628636	0.954873
PAH9+H	0.000941856	0.995446	0.00773304	0.962606
PAH3+H	0.000857236	0.996303	0.00703827	0.969645
rad19anti	0.000629228	0.996932	0.00516623	0.974811
rad38	0.000525523	0.997458	0.00431476	0.979126
PAH7+H	0.000454502	0.997913	0.00373165	0.982857
rad30	0.000417263	0.998330	0.00342591	0.986283
PhCCH+CH3	0.000383697	0.998713	0.00315031	0.989434

rad35	0.000200865	0.998914	0.00164918	0.991083
Ph+MeAc	0.000197882	0.999112	0.00162470	0.992707
rad50	0.000170940	0.999283	0.00140349	0.994111
rad46	0.000166540	0.999450	0.00136737	0.995478
rad39	0.000118806	0.999568	0.000975445	0.996454
rad59	7.57691e-05	0.999644	0.000622096	0.997076
rad51	6.22686e-05	0.999707	0.000511251	0.997587
rad60syn	5.44510e-05	0.999761	0.000447066	0.998034
PhCCCH3+H	5.15901e-05	0.999813	0.000423577	0.998458
rad67	4.61782e-05	0.999859	0.000379142	0.998837
rad60anti	3.79865e-05	0.999897	0.000311885	0.999149
PAH10+CH3	1.71933e-05	0.999914	0.000141164	0.999290
rad52	1.70844e-05	0.999931	0.000140270	0.999430
rad19syn	1.63932e-05	0.999947	0.000134595	0.999565
PhcycC3H3_A+H	1.10275e-05	0.999958	9.05407e-05	0.999655
rad58	1.00660e-05	0.999969	8.26458e-05	0.999738
PAH1+H	5.96728e-06	0.999974	4.89939e-05	0.999787
rad37	5.72356e-06	0.999980	4.69928e-05	0.999834
rad54	5.39698e-06	0.999986	4.43115e-05	0.999878
rad71	3.95691e-06	0.999990	3.24879e-05	0.999911
rad70	3.69403e-06	0.999993	3.03296e-05	0.999941
rad73	2.41459e-06	0.999996	1.98248e-05	0.999961
rad65	1.68525e-06	0.999997	1.38367e-05	0.999975
rad34	1.08371e-06	0.999998	8.89771e-06	0.999984
rad55	4.74067e-07	0.999999	3.89229e-06	0.999988
PAH8+H	3.91946e-07	0.999999	3.21804e-06	0.999991
rad72	2.09318e-07	1.000000	1.71859e-06	0.999992
rad56	1.86168e-07	1.000000	1.52852e-06	0.999994
rad53	1.73183e-07	1.000000	1.42191e-06	0.999995
rad64	1.33616e-07	1.000000	1.09704e-06	0.999997
rad68syn	1.10265e-07	1.000000	9.05322e-07	0.999997
rad62	9.48259e-08	1.000000	7.78561e-07	0.999998
rad68anti	7.08807e-08	1.000000	5.81961e-07	0.999999
rad43	4.82400e-08	1.000000	3.96071e-07	0.999999
rad61	4.62524e-08	1.000000	3.79752e-07	1.000000
rad40syn	4.43238e-08	1.000000	3.63917e-07	1.000000
rad40anti	2.91751e-08	1.000000	2.39540e-07	1.000000
rad42	1.00367e-08	1.000000	8.24055e-08	1.000000
rad41	5.35211e-09	1.000000	4.39431e-08	1.000000
rad6	1.23390e-17	1.000000	1.01308e-16	1.000000
rad23	4.57028e-18	1.000000	3.75240e-17	1.000000
rad45	6.14366e-19	1.000000	5.04421e-18	1.000000
rad22	3.96239e-19	1.000000	3.25329e-18	1.000000
rad9	3.51555e-19	1.000000	2.88642e-18	1.000000
rad20	2.60557e-19	1.000000	2.13928e-18	1.000000
rad11	1.62855e-19	1.000000	1.33711e-18	1.000000
rad21	1.30011e-19	1.000000	1.06745e-18	1.000000
rad36	1.13126e-19	1.000000	9.28815e-19	1.000000
rad7	9.44064e-20	1.000000	7.75117e-19	1.000000
rad18	6.17423e-20	1.000000	5.06931e-19	1.000000
rad28	5.07618e-20	1.000000	4.16776e-19	1.000000
rad15	2.10987e-20	1.000000	1.73229e-19	1.000000
rad13	8.56525e-21	1.000000	7.03243e-20	1.000000
rad24	5.70002e-21	1.000000	4.67996e-20	1.000000
rad12	3.05351e-21	1.000000	2.50707e-20	1.000000
rad26	2.24970e-21	1.000000	1.84710e-20	1.000000
rad8	2.16858e-21	1.000000	1.78050e-20	1.000000
rad10	7.19426e-22	1.000000	5.90679e-21	1.000000
rad33	3.63727e-22	1.000000	2.98636e-21	1.000000
rad25	2.84538e-22	1.000000	2.33618e-21	1.000000
rad47	1.41374e-22	1.000000	1.16074e-21	1.000000
rad2	1.36938e-22	1.000000	1.12432e-21	1.000000
rad1	4.21273e-23	1.000000	3.45883e-22	1.000000
rad3	3.04273e-23	1.000000	2.49821e-22	1.000000
rad5	2.08606e-23	1.000000	1.71275e-22	1.000000
rad4	1.96579e-23	1.000000	1.61400e-22	1.000000
rad14	5.33284e-24	1.000000	4.37849e-23	1.000000
rad27	1.32553e-24	1.000000	1.08832e-23	1.000000

0.100000000E-08 Pa, 2500.00000 K

Rate constant	True (fraction)	Effective (fraction)		
Total	5.32896e-13 (1.00)	6.40311e-14 (1.00)		
species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.879843	0.879843	0.00000	0.00000
Indene+H	0.0541638	0.934007	0.450777	0.450777
PhCH2CCH+H	0.0379681	0.971975	0.315989	0.766766

Ph+Allene	0.0112444	0.983219	0.0935810	0.860347
PhCHCCH2+H	0.00999485	0.993214	0.0831818	0.943529
PAH3+H	0.00124356	0.994458	0.0103495	0.953878
PAH9+H	0.00106545	0.995523	0.00886715	0.962745
rad19anti	0.000731028	0.996254	0.00608396	0.968829
rad38	0.000614393	0.996869	0.00511327	0.973943
PAH7+H	0.000586817	0.997455	0.00488376	0.978826
rad30	0.000442203	0.997898	0.00368022	0.982507
PhCCH+CH3	0.000309130	0.998207	0.00257273	0.985079
rad50	0.000261677	0.998468	0.00217780	0.987257
Ph+MeAc	0.000256973	0.998725	0.00213865	0.989396
rad35	0.000242192	0.998968	0.00201564	0.991411
rad46	0.000207878	0.999175	0.00173006	0.993142
rad39	0.000175772	0.999351	0.00146285	0.994604
rad51	0.000109649	0.999461	0.000912547	0.995517
rad59	0.000104825	0.999566	0.000872406	0.996389
rad67	7.34547e-05	0.999639	0.000611325	0.997001
PhCCCH3+H	7.22810e-05	0.999711	0.000601557	0.997602
rad60syn	6.81857e-05	0.999780	0.000567474	0.998170
rad60anti	4.82378e-05	0.999828	0.000401457	0.998571
PAH10+CH3	3.08998e-05	0.999859	0.000257163	0.998828
rad52	2.78077e-05	0.999887	0.000231429	0.999060
rad19syn	2.34810e-05	0.999910	0.000195420	0.999255
rad58	1.71635e-05	0.999927	0.000142842	0.999398
PhcycC3H3_A+H	1.49440e-05	0.999942	0.000124371	0.999522
PAH1+H	1.13017e-05	0.999953	9.40581e-05	0.999616
rad71	1.08628e-05	0.999964	9.04053e-05	0.999707
rad37	8.12868e-06	0.999972	6.76507e-05	0.999774
rad54	6.28002e-06	0.999979	5.22652e-05	0.999827
rad70	5.97099e-06	0.999985	4.96933e-05	0.999876
rad73	5.95726e-06	0.999991	4.95791e-05	0.999926
rad65	2.87595e-06	0.999994	2.39350e-05	0.999950
rad34	1.90624e-06	0.999995	1.58647e-05	0.999966
PAH8+H	1.06524e-06	0.999997	8.86540e-06	0.999975
rad72	7.14903e-07	0.999997	5.94976e-06	0.999981
rad55	5.87553e-07	0.999998	4.88989e-06	0.999986
rad56	3.21872e-07	0.999998	2.67877e-06	0.999988
rad64	2.70855e-07	0.999998	2.25419e-06	0.999990
rad53	2.70820e-07	0.999999	2.25389e-06	0.999993
rad68syn	2.47504e-07	0.999999	2.05985e-06	0.999995
rad68anti	1.58683e-07	0.999999	1.32064e-06	0.999996
rad62	1.55148e-07	0.999999	1.29122e-06	0.999997
rad40syn	1.10734e-07	0.999999	9.21579e-07	0.999998
rad61	1.05680e-07	0.999999	8.79519e-07	0.999999
rad43	8.79692e-08	1.000000	7.32121e-07	1.000000
rad40anti	7.53435e-08	1.000000	6.27044e-07	1.000000
rad42	1.97239e-08	1.000000	1.64152e-07	1.000000
rad41	1.13877e-08	1.000000	9.47734e-08	1.000000
rad6	2.24069e-18	1.000000	1.86480e-17	1.000000
rad23	1.40850e-18	1.000000	1.17222e-17	1.000000
rad45	2.67080e-19	1.000000	2.22277e-18	1.000000
rad9	1.86928e-19	1.000000	1.55570e-18	1.000000
rad20	1.43940e-19	1.000000	1.19794e-18	1.000000
rad22	1.35197e-19	1.000000	1.12517e-18	1.000000
rad21	6.94971e-20	1.000000	5.78387e-19	1.000000
rad11	6.25789e-20	1.000000	5.20811e-19	1.000000
rad36	5.01656e-20	1.000000	4.17501e-19	1.000000
rad18	2.77736e-20	1.000000	2.31145e-19	1.000000
rad7	2.64621e-20	1.000000	2.20230e-19	1.000000
rad15	1.25424e-20	1.000000	1.04384e-19	1.000000
rad28	1.20784e-20	1.000000	1.00522e-19	1.000000
rad24	3.60418e-21	1.000000	2.99957e-20	1.000000
rad13	2.74546e-21	1.000000	2.28490e-20	1.000000
rad12	2.40046e-21	1.000000	1.99778e-20	1.000000
rad8	2.25267e-21	1.000000	1.87478e-20	1.000000
rad26	1.24982e-21	1.000000	1.04016e-20	1.000000
rad10	4.02925e-22	1.000000	3.35333e-21	1.000000
rad47	2.44566e-22	1.000000	2.03539e-21	1.000000
rad25	1.71221e-22	1.000000	1.42498e-21	1.000000
rad33	1.46760e-22	1.000000	1.22141e-21	1.000000
rad2	4.21048e-23	1.000000	3.50416e-22	1.000000
rad5	2.16419e-23	1.000000	1.80114e-22	1.000000
rad1	1.50589e-23	1.000000	1.25327e-22	1.000000
rad3	8.31877e-24	1.000000	6.92327e-23	1.000000
rad4	5.29134e-24	1.000000	4.40370e-23	1.000000
rad14	2.68051e-24	1.000000	2.23085e-23	1.000000
rad27	1.07389e-24	1.000000	8.93744e-24	1.000000

0.100000000E-08 Pa, 2750.00000 K

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Rate constant	True (fraction)		Effective (fraction)	
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Total	8.05113e-13	(1.00)	1.00487e-13	(1.00)
species	PYtrue	Cumul	PYeffective	Cumul
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Benzyl+C2H2	0.875189	0.875189	0.00000	0.00000
PhCH2CCH+H	0.0492371	0.924426	0.394492	0.394492
Indene+H	0.0427171	0.967143	0.342254	0.736746
PhCHCCH2+H	0.0126523	0.979795	0.101371	0.838117
Ph+Allene	0.0121360	0.991931	0.0972347	0.935352
PAH3+H	0.00165412	0.993586	0.0132530	0.948605
PAH9+H	0.00112924	0.994715	0.00904761	0.957652
rad19anti	0.000790044	0.995505	0.00632991	0.963982
PAH7+H	0.000729333	0.996234	0.00584349	0.969826
rad38	0.000670521	0.996905	0.00537228	0.975198
rad30	0.000454283	0.997359	0.00363976	0.978838
rad50	0.000356822	0.997716	0.00285889	0.981697
Ph+MeAc	0.000331297	0.998047	0.00265438	0.984351
PhCCH+CH3	0.000293338	0.998340	0.00235025	0.986701
rad35	0.000276886	0.998617	0.00221844	0.988920
rad39	0.000242689	0.998860	0.00194445	0.990864
rad46	0.000239377	0.999099	0.00191791	0.992782
rad51	0.000167552	0.999267	0.00134245	0.994125
rad59	0.000133898	0.999401	0.00107280	0.995197
rad67	0.000103303	0.999504	0.000827674	0.996025
PhCCCH3+H	9.47597e-05	0.999599	0.000759224	0.996784
rad60syn	8.03400e-05	0.999679	0.000643692	0.997428
rad60anti	5.74980e-05	0.999737	0.000460680	0.997889
PAH10+CH3	4.75540e-05	0.999784	0.000381007	0.998270
rad52	3.97965e-05	0.999824	0.000318854	0.998588
rad19syn	3.43481e-05	0.999858	0.000275200	0.998864
rad58	2.60271e-05	0.999885	0.000208532	0.999072
rad71	2.39120e-05	0.999908	0.000191585	0.999264
PhcycC3H3_A+H	1.91124e-05	0.999928	0.000153131	0.999417
PAH1+H	1.89313e-05	0.999946	0.000151679	0.999569
rad73	1.19963e-05	0.999958	9.61159e-05	0.999665
rad37	1.02458e-05	0.999969	8.20902e-05	0.999747
rad70	8.97456e-06	0.999978	7.19051e-05	0.999819
rad54	7.04852e-06	0.999985	5.64734e-05	0.999875
rad65	4.27356e-06	0.999989	3.42402e-05	0.999909
rad34	3.06724e-06	0.999992	2.45750e-05	0.999934
PAH8+H	2.42508e-06	0.999995	1.94299e-05	0.999953
rad72	1.88022e-06	0.999996	1.50645e-05	0.999968
rad55	6.94535e-07	0.999997	5.56468e-06	0.999974
rad56	5.00306e-07	0.999998	4.00850e-06	0.999978
rad68syn	4.83458e-07	0.999998	3.87351e-06	0.999982
rad64	4.76899e-07	0.999999	3.82096e-06	0.999986
rad53	3.88200e-07	0.999999	3.11030e-06	0.999989
rad68anti	3.09361e-07	0.999999	2.47863e-06	0.999991
rad62	2.47711e-07	0.999999	1.98468e-06	0.999993
rad40syn	2.35491e-07	1.000000	1.88678e-06	0.999995
rad61	1.98411e-07	1.000000	1.58969e-06	0.999997
rad40anti	1.64464e-07	1.000000	1.31770e-06	0.999998
rad43	1.38326e-07	1.000000	1.10828e-06	0.999999
rad42	3.59374e-08	1.000000	2.87934e-07	1.000000
rad41	2.03340e-08	1.000000	1.62918e-07	1.000000
rad6	5.28374e-19	1.000000	4.23339e-18	1.000000
rad23	5.15566e-19	1.000000	4.13076e-18	1.000000
rad45	1.27103e-19	1.000000	1.01836e-18	1.000000
rad9	1.02200e-19	1.000000	8.18837e-19	1.000000
rad20	8.68783e-20	1.000000	6.96077e-19	1.000000
rad22	5.53887e-20	1.000000	4.43779e-19	1.000000
rad21	4.05053e-20	1.000000	3.24532e-19	1.000000
rad11	2.91948e-20	1.000000	2.33912e-19	1.000000
rad36	2.42641e-20	1.000000	1.94406e-19	1.000000
rad18	1.40097e-20	1.000000	1.12247e-19	1.000000
rad7	8.87307e-21	1.000000	7.10919e-20	1.000000
rad15	7.56443e-21	1.000000	6.06070e-20	1.000000
rad28	4.35930e-21	1.000000	3.49272e-20	1.000000
rad24	2.36701e-21	1.000000	1.89647e-20	1.000000
rad8	2.27048e-21	1.000000	1.81913e-20	1.000000
rad12	1.84640e-21	1.000000	1.47935e-20	1.000000
rad13	1.02991e-21	1.000000	8.25174e-21	1.000000
rad26	7.74804e-22	1.000000	6.20780e-21	1.000000
rad47	3.65965e-22	1.000000	2.93215e-21	1.000000
rad10	2.66088e-22	1.000000	2.13193e-21	1.000000
rad25	1.16293e-22	1.000000	9.31748e-22	1.000000
rad33	6.71473e-23	1.000000	5.37991e-22	1.000000
rad5	2.15478e-23	1.000000	1.72643e-22	1.000000

rad2	2.14422e-23	1.00000	1.71797e-22	1.000000
rad1	8.86322e-24	1.00000	7.10130e-23	1.000000
rad3	2.82498e-24	1.00000	2.26340e-23	1.000000
rad14	1.77541e-24	1.00000	1.42248e-23	1.000000
rad4	1.75074e-24	1.00000	1.40271e-23	1.000000
rad27	9.32033e-25	1.00000	7.46754e-24	1.000000

0.100000000E-08 Pa, 3000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	1.15309e-12 (1.00)	1.53862e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.866566	0.866566	0.00000	0.00000
PhCH2CCH+H	0.0611725	0.927738	0.458447	0.458447
Indene+H	0.0342672	0.962006	0.256810	0.715257
PhCHCCH2+H	0.0154790	0.977485	0.116005	0.831262
Ph+Allene	0.0132660	0.990751	0.0994201	0.930682
PAH3+H	0.00205938	0.992810	0.0154337	0.946116
PAH9+H	0.00113813	0.993948	0.00852950	0.954645
PAH7+H	0.000866135	0.994814	0.00649110	0.961136
rad19anti	0.000812999	0.995627	0.00609288	0.967229
rad38	0.000693215	0.996321	0.00519518	0.972424
rad30	0.000455427	0.996776	0.00341312	0.975838
rad50	0.000445147	0.997221	0.00333608	0.979174
Ph+MeAc	0.000411378	0.997633	0.00308300	0.982257
PhCCH+CH3	0.000319072	0.997952	0.00239123	0.984648
rad39	0.000311351	0.998263	0.00233337	0.986981
rad35	0.000303822	0.998567	0.00227694	0.989258
rad46	0.000258929	0.998826	0.00194050	0.991199
rad51	0.000229661	0.999055	0.00172116	0.992920
rad59	0.000160966	0.999216	0.00120633	0.994126
rad67	0.000132859	0.999349	0.000995686	0.995122
PhCCCH3+H	0.000117527	0.999467	0.000880786	0.996003
rad60syn	9.03378e-05	0.999557	0.000677021	0.996680
PAH10+CH3	6.53522e-05	0.999622	0.000489771	0.997169
rad60anti	6.52879e-05	0.999688	0.000489289	0.997659
rad52	5.15998e-05	0.999739	0.000386706	0.998045
rad19syn	5.01057e-05	0.999789	0.000375508	0.998421
rad71	4.45158e-05	0.999834	0.000333616	0.998755
rad58	3.61220e-05	0.999870	0.000270710	0.999025
PAH1+H	2.86271e-05	0.999899	0.000214541	0.999240
PhcycC3H3_A+H	2.34369e-05	0.999922	0.000175644	0.999415
rad73	2.07080e-05	0.999943	0.000155192	0.999571
rad70	1.26564e-05	0.999955	9.48509e-05	0.999666
rad37	1.18404e-05	0.999967	8.87361e-05	0.999754
rad54	7.74183e-06	0.999975	5.80198e-05	0.999812
rad65	5.71876e-06	0.999981	4.28583e-05	0.999855
PAH8+H	4.80152e-06	0.999986	3.59842e-05	0.999891
rad34	4.57469e-06	0.999990	3.42843e-05	0.999925
rad72	4.05904e-06	0.999994	3.04198e-05	0.999956
rad68syn	8.44302e-07	0.999995	6.32747e-06	0.999962
rad55	7.96394e-07	0.999996	5.96844e-06	0.999968
rad64	7.49015e-07	0.999997	5.61336e-06	0.999974
rad56	7.20451e-07	0.999997	5.39929e-06	0.999979
rad68anti	5.39463e-07	0.999998	4.04291e-06	0.999983
rad53	5.23143e-07	0.999998	3.92061e-06	0.999987
rad40syn	4.40707e-07	0.999999	3.30280e-06	0.999990
rad62	3.72784e-07	0.999999	2.79376e-06	0.999993
rad61	3.22478e-07	0.999999	2.41676e-06	0.999996
rad40anti	3.14359e-07	1.000000	2.35591e-06	0.999998
rad43	1.94896e-07	1.00000	1.46061e-06	0.999999
rad42	5.98145e-08	1.00000	4.48269e-07	1.000000
rad41	3.19484e-08	1.00000	2.39432e-07	1.00000
rad23	2.11558e-19	1.00000	1.58549e-18	1.00000
rad6	1.52626e-19	1.00000	1.14383e-18	1.00000
rad45	6.48444e-20	1.00000	4.85965e-19	1.00000
rad9	5.76615e-20	1.00000	4.32134e-19	1.00000
rad20	5.61879e-20	1.00000	4.21090e-19	1.00000
rad22	2.56754e-20	1.00000	1.92420e-19	1.00000
rad21	2.52565e-20	1.00000	1.89281e-19	1.00000
rad11	1.59312e-20	1.00000	1.19394e-19	1.00000
rad36	1.25425e-20	1.00000	9.39973e-20	1.00000
rad18	7.69597e-21	1.00000	5.76761e-20	1.00000
rad15	4.64692e-21	1.00000	3.48256e-20	1.00000
rad7	3.48721e-21	1.00000	2.61343e-20	1.00000
rad8	2.23533e-21	1.00000	1.67523e-20	1.00000
rad28	2.05573e-21	1.00000	1.54063e-20	1.00000

rad24	1.60028e-21	1.00000	1.19931e-20	1.00000
rad12	1.40784e-21	1.00000	1.05508e-20	1.00000
rad26	4.93141e-22	1.00000	3.69576e-21	1.00000
rad47	4.90428e-22	1.00000	3.67543e-21	1.00000
rad13	4.47285e-22	1.00000	3.35210e-21	1.00000
rad10	1.80807e-22	1.00000	1.35502e-21	1.00000
rad25	8.60189e-23	1.00000	6.44654e-22	1.00000
rad33	3.44368e-23	1.00000	2.58081e-22	1.00000
rad5	2.09153e-23	1.00000	1.56746e-22	1.00000
rad2	1.31329e-23	1.00000	9.84221e-23	1.00000
rad1	6.17670e-24	1.00000	4.62902e-23	1.00000
rad14	1.40237e-24	1.00000	1.05098e-23	1.00000
rad3	1.16561e-24	1.00000	8.73550e-24	1.00000
rad27	8.01836e-25	1.00000	6.00923e-24	1.00000
rad4	7.00366e-25	1.00000	5.24877e-24	1.00000

0.100000000E-08 Pa, 3250.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	1.58309e-12 (1.00)	2.28795e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.855476	0.855476	0.00000	0.00000
PhCH2CCH+H	0.0734301	0.928906	0.508082	0.508082
Indene+H	0.0278643	0.956770	0.192800	0.700882
PhCHCCH2+H	0.0183610	0.975131	0.127045	0.827927
Ph+Allene	0.0145940	0.989725	0.100980	0.928907
PAH3+H	0.00243645	0.992162	0.0168585	0.945765
PAH9+H	0.00110339	0.993265	0.00763468	0.953400
PAH7+H	0.000986571	0.994252	0.00682634	0.960227
rad19anti	0.000808911	0.995061	0.00559707	0.965824
rad38	0.000686670	0.995747	0.00475125	0.970575
rad50	0.000518179	0.996266	0.00358542	0.974160
Ph+MeAc	0.000489465	0.996755	0.00338674	0.977547
rad30	0.000447972	0.997203	0.00309964	0.980647
PhCCH+CH3	0.000378211	0.997581	0.00261694	0.983264
rad39	0.000374434	0.997956	0.00259081	0.985854
rad35	0.000323023	0.998279	0.00223508	0.988089
rad51	0.000289245	0.998568	0.00200136	0.990091
rad46	0.000266714	0.998835	0.00184546	0.991936
rad59	0.000184695	0.999019	0.00127795	0.993214
rad67	0.000159865	0.999179	0.00110614	0.994320
PhCCCH3+H	0.000140367	0.999320	0.000971235	0.995292
rad60syn	9.79791e-05	0.999418	0.000677943	0.995970
PAH10+CH3	8.26142e-05	0.999500	0.000571630	0.996541
rad71	7.28074e-05	0.999573	0.000503773	0.997045
rad60anti	7.14060e-05	0.999644	0.000494077	0.997539
rad19syn	7.13406e-05	0.999716	0.000493624	0.998033
rad52	6.19533e-05	0.999778	0.000428671	0.998461
rad58	4.68388e-05	0.999825	0.000324090	0.998785
PAH1+H	3.98744e-05	0.999864	0.000275902	0.999061
rad73	3.17350e-05	0.999896	0.000219583	0.999281
PhcycC3H3_A+H	2.77967e-05	0.999924	0.000192333	0.999473
rad70	1.68825e-05	0.999941	0.000116814	0.999590
rad37	1.28499e-05	0.999954	8.89115e-05	0.999679
PAH8+H	8.50457e-06	0.999962	5.88453e-05	0.999738
rad54	8.38233e-06	0.999971	5.79997e-05	0.999796
rad72	7.52648e-06	0.999978	5.20777e-05	0.999848
rad65	7.06074e-06	0.999985	4.88551e-05	0.999897
rad34	6.39568e-06	0.999992	4.42534e-05	0.999941
rad68syn	1.34606e-06	0.999993	9.31375e-06	0.999950
rad64	1.07438e-06	0.999994	7.43389e-06	0.999958
rad56	9.79690e-07	0.999995	6.77873e-06	0.999965
rad55	8.93999e-07	0.999996	6.18581e-06	0.999971
rad68anti	8.59058e-07	0.999997	5.94405e-06	0.999977
rad40syn	7.44327e-07	0.999997	5.15020e-06	0.999982
rad53	6.73265e-07	0.999998	4.65850e-06	0.999986
rad40anti	5.40357e-07	0.999999	3.73887e-06	0.999990
rad62	5.25220e-07	0.999999	3.63414e-06	0.999994
rad61	4.70536e-07	1.000000	3.25576e-06	0.999997
rad43	2.53715e-07	1.000000	1.75552e-06	0.999999
rad42	9.14458e-08	1.000000	6.32737e-07	0.999999
rad41	4.57450e-08	1.000000	3.16522e-07	1.000000
rad23	9.42805e-20	1.000000	6.52352e-19	1.000000
rad6	5.26031e-20	1.000000	3.63974e-19	1.000000
rad20	3.83869e-20	1.000000	2.65609e-19	1.000000
rad45	3.49316e-20	1.000000	2.41701e-19	1.000000
rad9	3.36408e-20	1.000000	2.32770e-19	1.000000

rad21	1.66173e-20	1.00000	1.14980e-19	1.000000
rad22	1.30761e-20	1.00000	9.04768e-20	1.000000
rad11	9.80857e-21	1.00000	6.78681e-20	1.000000
rad36	6.82785e-21	1.00000	4.72437e-20	1.000000
rad18	4.51591e-21	1.00000	3.12467e-20	1.000000
rad15	2.91808e-21	1.00000	2.01909e-20	1.000000
rad8	2.15817e-21	1.00000	1.49330e-20	1.000000
rad7	1.57403e-21	1.00000	1.08911e-20	1.000000
rad28	1.13058e-21	1.00000	7.82281e-21	1.000000
rad24	1.10778e-21	1.00000	7.66503e-21	1.000000
rad12	1.07284e-21	1.00000	7.42324e-21	1.000000
rad47	6.03541e-22	1.00000	4.17606e-21	1.000000
rad26	3.17882e-22	1.00000	2.19951e-21	1.000000
rad13	2.21088e-22	1.00000	1.52976e-21	1.000000
rad10	1.23614e-22	1.00000	8.55316e-22	1.000000
rad25	6.72544e-23	1.00000	4.65351e-22	1.000000
rad5	2.00796e-23	1.00000	1.38936e-22	1.000000
rad33	1.94932e-23	1.00000	1.34878e-22	1.000000
rad2	8.57644e-24	1.00000	5.93426e-23	1.000000
rad1	4.53583e-24	1.00000	3.13846e-23	1.000000
rad14	1.20218e-24	1.00000	8.31820e-24	1.000000
rad27	6.78839e-25	1.00000	4.69707e-24	1.000000
rad3	5.66016e-25	1.00000	3.91641e-24	1.000000
rad4	3.30389e-25	1.00000	2.28605e-24	1.000000

0.100000000E-08 Pa, 3500.00000 K

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Rate constant	True (fraction)		Effective (fraction)	

Total	2.10046e-12 (1.00)		3.29923e-13 (1.00)	
species	PYtrue	Cumul	PYeffective	Cumul

Benzyl+C2H2	0.842928	0.842928	0.00000	0.00000
PhCH2CCH+H	0.0857241	0.928652	0.545762	0.545762
Indene+H	0.0229287	0.951581	0.145976	0.691738
PhCHCCH2+H	0.0212218	0.972803	0.135108	0.826846
Ph+Allene	0.0160719	0.988874	0.102322	0.929168
PAH3+H	0.00277080	0.991645	0.0176403	0.946808
PAH7+H	0.00108547	0.992731	0.00691065	0.953719
PAH9+H	0.00103824	0.993769	0.00660998	0.960329
rad19anti	0.000786012	0.994555	0.00500415	0.965333
rad38	0.000657575	0.995213	0.00418645	0.969520
rad50	0.000571322	0.995784	0.00363732	0.973157
Ph+MeAc	0.000559758	0.996344	0.00356370	0.976721
PhCCH+CH3	0.000466753	0.996810	0.00297158	0.979692
rad30	0.000434295	0.997245	0.00276494	0.982457
rad39	0.000426787	0.997672	0.00271714	0.985174
rad51	0.000340822	0.998012	0.00216985	0.987344
rad35	0.000335221	0.998348	0.00213419	0.989478
rad46	0.000264413	0.998612	0.00168339	0.991162
rad59	0.000204435	0.998816	0.00130154	0.992463
rad67	0.000182834	0.998999	0.00116401	0.993627
PhCCCH3+H	0.000163685	0.999163	0.00104210	0.994669
rad71	0.000107601	0.999271	0.000685042	0.995354
rad60syn	0.000103349	0.999374	0.000657969	0.996012
PAH10+CH3	9.81181e-05	0.999472	0.000624669	0.996637
rad19syn	9.79725e-05	0.999570	0.000623742	0.997261
rad60anti	7.58697e-05	0.999646	0.000483025	0.997744
rad52	7.00217e-05	0.999716	0.000445793	0.998190
rad58	5.76196e-05	0.999773	0.000366835	0.998556
PAH1+H	5.20523e-05	0.999826	0.000331391	0.998888
rad73	4.43107e-05	0.999870	0.000282104	0.999170
PhcycC3H3_A+H	3.20633e-05	0.999902	0.000204131	0.999374
rad70	2.14708e-05	0.999923	0.000136694	0.999511
PAH8+H	1.37725e-05	0.999937	8.76827e-05	0.999598
rad37	1.33235e-05	0.999950	8.48243e-05	0.999683
rad72	1.23923e-05	0.999963	7.88958e-05	0.999762
rad54	8.98058e-06	0.999972	5.71749e-05	0.999819
rad34	8.46717e-06	0.999980	5.39063e-05	0.999873
rad65	8.19015e-06	0.999988	5.21426e-05	0.999925
rad68syn	1.99232e-06	0.999990	1.26841e-05	0.999938
rad64	1.43496e-06	0.999992	9.13568e-06	0.999947
rad56	1.27412e-06	0.999993	8.11171e-06	0.999955
rad68anti	1.27030e-06	0.999994	8.08736e-06	0.999963
rad40syn	1.15716e-06	0.999996	7.36708e-06	0.999971
rad55	9.87613e-07	0.999997	6.28764e-06	0.999977
rad40anti	8.52741e-07	0.999997	5.42898e-06	0.999982
rad53	8.35966e-07	0.999998	5.32218e-06	0.999988
rad62	6.97360e-07	0.999999	4.43975e-06	0.999992

rad61	6.32568e-07	1.000000	4.02725e-06	0.999996
rad43	3.12012e-07	1.000000	1.98643e-06	0.999998
rad42	1.30122e-07	1.000000	8.28424e-07	0.999999
rad41	6.11800e-08	1.000000	3.89503e-07	0.999999
rad23	4.48616e-20	1.000000	2.85612e-19	0.999999
rad20	2.74120e-20	1.000000	1.74519e-19	0.999999
rad6	2.11781e-20	1.000000	1.34830e-19	0.999999
rad9	2.03016e-20	1.000000	1.29250e-19	0.999999
rad45	1.96578e-20	1.000000	1.25151e-19	0.999999
rad21	1.14208e-20	1.000000	7.27102e-20	0.999999
rad22	7.18391e-21	1.000000	4.57364e-20	0.999999
rad11	6.60781e-21	1.000000	4.20686e-20	0.999999
rad36	3.87398e-21	1.000000	2.46637e-20	0.999999
rad18	2.79268e-21	1.000000	1.77796e-20	0.999999
rad8	2.04865e-21	1.000000	1.30427e-20	0.999999
rad15	1.87604e-21	1.000000	1.19438e-20	0.999999
rad12	8.20876e-22	1.000000	5.22611e-21	0.999999
rad7	7.97826e-22	1.000000	5.07936e-21	0.999999
rad24	7.82702e-22	1.000000	4.98307e-21	0.999999
rad47	6.94994e-22	1.000000	4.42468e-21	0.999999
rad28	6.78730e-22	1.000000	4.32113e-21	0.999999
rad26	2.07559e-22	1.000000	1.32143e-21	0.999999
rad13	1.21831e-22	1.000000	7.75639e-22	0.999999
rad10	8.51738e-23	1.000000	5.42259e-22	0.999999
rad25	5.44463e-23	1.000000	3.46632e-22	0.999999
rad5	1.92212e-23	1.000000	1.22372e-22	0.999999
rad33	1.19819e-23	1.000000	7.62829e-23	0.999999
rad2	5.84158e-24	1.000000	3.71904e-23	0.999999
rad1	3.40679e-24	1.000000	2.16893e-23	0.999999
rad14	1.06170e-24	1.000000	6.75934e-24	0.999999
rad27	5.69300e-25	1.000000	3.62445e-24	0.999999
rad3	3.12656e-25	1.000000	1.99052e-24	0.999999
rad4	1.78499e-25	1.000000	1.13641e-24	0.999999

0.100000000E-08 Pa, 3750.00000 K

Rate constant	True (fraction)	Effective (fraction)
Total	2.70978e-12 (1.00)	4.61708e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.829614	0.829614	0.00000	0.00000
PhCH2CCH+H	0.0978316	0.927446	0.574175	0.574175
PhCHCCH2+H	0.0240141	0.951460	0.140939	0.715114
Indene+H	0.0190788	0.970538	0.111974	0.827088
Ph+Allene	0.0176550	0.988193	0.103617	0.930705
PAH3+H	0.00305565	0.991249	0.0179337	0.948639
PAH7+H	0.00116197	0.992411	0.00681959	0.955458
PAH9+H	0.000955042	0.993366	0.00560515	0.961063
rad19anti	0.000750872	0.994117	0.00440688	0.965470
Ph+MeAc	0.000618509	0.994736	0.00363004	0.969100
rad38	0.000613193	0.995349	0.00359884	0.972699
rad50	0.000603635	0.995952	0.00354274	0.976242
PhCCH+CH3	0.000581835	0.996534	0.00341479	0.979657
rad39	0.000465790	0.997000	0.00273373	0.982390
rad30	0.000416539	0.997417	0.00244467	0.984835
rad51	0.000380994	0.997798	0.00223606	0.987071
rad35	0.000341508	0.998139	0.00200431	0.989075
rad46	0.000254425	0.998393	0.00149322	0.990569
rad59	0.000220084	0.998614	0.00129168	0.991860
rad67	0.000201013	0.998815	0.00117975	0.993040
PhCCCH3+H	0.000187990	0.999003	0.00110331	0.994143
rad71	0.000146780	0.999149	0.000861455	0.995005
rad19syn	0.000129261	0.999279	0.000758633	0.995764
PAH10+CH3	0.000111172	0.999390	0.000652468	0.996416
rad60syn	0.000106707	0.999496	0.000626263	0.997042
rad60anti	7.88382e-05	0.999575	0.000462703	0.997505
rad52	7.54521e-05	0.999651	0.000442829	0.997948
rad58	6.80261e-05	0.999719	0.000399246	0.998347
PAH1+H	6.45813e-05	0.999783	0.000379028	0.998726
rad73	5.74878e-05	0.999841	0.000337397	0.999063
PhcycC3H3_A+H	3.61213e-05	0.999877	0.000211996	0.999275
rad70	2.62309e-05	0.999903	0.000153949	0.999429
PAH8+H	2.07420e-05	0.999924	0.000121735	0.999551
rad72	1.85748e-05	0.999943	0.000109016	0.999660
rad37	1.33636e-05	0.999956	7.84314e-05	0.999739
rad34	1.07116e-05	0.999967	6.28665e-05	0.999801
rad54	9.53969e-06	0.999976	5.59886e-05	0.999857
rad65	9.05125e-06	0.999985	5.31219e-05	0.999911

rad68syn	2.77520e-06	0.999988	1.62877e-05	0.999927
rad64	1.81236e-06	0.999990	1.06367e-05	0.999938
rad68anti	1.76807e-06	0.999992	1.03768e-05	0.999948
rad40syn	1.68193e-06	0.999993	9.87130e-06	0.999958
rad56	1.59874e-06	0.999995	9.38301e-06	0.999967
rad40anti	1.25564e-06	0.999996	7.36935e-06	0.999975
rad55	1.07703e-06	0.999997	6.32112e-06	0.999981
rad53	1.00840e-06	0.999998	5.91834e-06	0.999987
rad62	8.81786e-07	0.999999	5.17522e-06	0.999992
rad61	7.98455e-07	1.000000	4.68615e-06	0.999997
rad43	3.67979e-07	1.000000	2.15967e-06	0.999999
rad42	1.74775e-07	1.000000	1.02576e-06	1.000000
rad41	7.77074e-08	1.000000	4.56066e-07	1.000000
rad23	2.25414e-20	1.000000	1.32296e-19	1.000000
rad20	2.02983e-20	1.000000	1.19131e-19	1.000000
rad9	1.26592e-20	1.000000	7.42971e-20	1.000000
rad45	1.14691e-20	1.000000	6.73121e-20	1.000000
rad6	9.73951e-21	1.000000	5.71613e-20	1.000000
rad21	8.13804e-21	1.000000	4.77623e-20	1.000000
rad11	4.75768e-21	1.000000	2.79229e-20	1.000000
rad22	4.20237e-21	1.000000	2.46638e-20	1.000000
rad36	2.27412e-21	1.000000	1.33468e-20	1.000000
rad8	1.91572e-21	1.000000	1.12434e-20	1.000000
rad18	1.80283e-21	1.000000	1.05808e-20	1.000000
rad15	1.23473e-21	1.000000	7.24666e-21	1.000000
rad47	7.59707e-22	1.000000	4.45873e-21	1.000000
rad12	6.32118e-22	1.000000	3.70991e-21	1.000000
rad24	5.63439e-22	1.000000	3.30683e-21	1.000000
rad7	4.44214e-22	1.000000	2.60710e-21	1.000000
rad28	4.30193e-22	1.000000	2.52481e-21	1.000000
rad26	1.37558e-22	1.000000	8.07328e-22	1.000000
rad13	7.33169e-23	1.000000	4.30298e-22	1.000000
rad10	5.94914e-23	1.000000	3.49156e-22	1.000000
rad25	4.50617e-23	1.000000	2.64468e-22	1.000000
rad5	1.83995e-23	1.000000	1.07987e-22	1.000000
rad33	7.87849e-24	1.000000	4.62390e-23	1.000000
rad2	4.16497e-24	1.000000	2.44443e-23	1.000000
rad1	2.59494e-24	1.000000	1.52297e-23	1.000000
rad14	9.45605e-25	1.000000	5.54977e-24	1.000000
rad27	4.76374e-25	1.000000	2.79584e-24	1.000000
rad3	1.90775e-25	1.000000	1.11966e-24	1.000000
rad4	1.07383e-25	1.000000	6.30233e-25	1.000000

0.100000000E-08 Pa, 4000.00000 K

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Rate constant	True (fraction)	Effective (fraction)
Total	3.41497e-12 (1.00)	6.28297e-13 (1.00)

species	PYtrue	Cumul	PYeffective	Cumul
Benzyl+C2H2	0.816017	0.816017	0.000000	0.000000
PhCH2CCH+H	0.109584	0.925601	0.595618	0.595618
PhCHCCH2+H	0.0267098	0.952311	0.145175	0.740793
Ph+Allene	0.0193046	0.971615	0.104926	0.845719
Indene+H	0.0160484	0.987664	0.0872277	0.932947
PAH3+H	0.00329013	0.990954	0.0178828	0.950829
PAH7+H	0.00121791	0.992172	0.00661968	0.957449
PAH9+H	0.000864009	0.993036	0.00469613	0.962145
PhCCH+CH3	0.000720156	0.993756	0.00391424	0.966060
rad19anti	0.000708493	0.994464	0.00385085	0.969910
Ph+MeAc	0.000663934	0.995128	0.00360866	0.973519
rad50	0.000616859	0.995745	0.00335280	0.976872
rad38	0.000560144	0.996305	0.00304454	0.979916
rad39	0.000491035	0.996796	0.00266891	0.982585
rad51	0.000408498	0.997205	0.00222030	0.984806
rad30	0.000396478	0.997601	0.00215497	0.986961
rad35	0.000343096	0.997945	0.00186482	0.988825
rad46	0.000239253	0.998184	0.00130041	0.990126
rad59	0.000231903	0.998416	0.00126046	0.991386
rad67	0.000214260	0.998630	0.00116456	0.992551
PhCCCH3+H	0.000213580	0.998844	0.00116087	0.993712
rad71	0.000187844	0.999031	0.00102098	0.994733
rad19syn	0.000163941	0.999195	0.000891067	0.995624
PAH10+CH3	0.000121536	0.999317	0.000660582	0.996284
rad60syn	0.000108396	0.999425	0.000589161	0.996873
rad60anti	8.05427e-05	0.999506	0.000437772	0.997311
rad52	7.82960e-05	0.999584	0.000425560	0.997737
rad58	7.77572e-05	0.999662	0.000422632	0.998159
PAH1+H	7.70001e-05	0.999739	0.000418517	0.998578

rad73	7.03552e-05	0.999809	0.000382400	0.998960
PhcycC3H3_A+H	3.98813e-05	0.999849	0.000216766	0.999177
rad70	3.09908e-05	0.999880	0.000168444	0.999346
PAH8+H	2.94355e-05	0.999910	0.000159990	0.999506
rad72	2.58284e-05	0.999935	0.000140384	0.999646
rad37	1.30848e-05	0.999948	7.11194e-05	0.999717
rad34	1.30497e-05	0.999961	7.09289e-05	0.999788
rad54	1.00584e-05	0.999972	5.46703e-05	0.999843
rad65	9.63686e-06	0.999981	5.23790e-05	0.999895
rad68syn	3.67778e-06	0.999985	1.99898e-05	0.999915
rad68anti	2.34154e-06	0.999987	1.27269e-05	0.999928
rad40syn	2.31359e-06	0.999990	1.25750e-05	0.999940
rad64	2.19077e-06	0.999992	1.19074e-05	0.999952
rad56	1.94741e-06	0.999994	1.05847e-05	0.999963
rad40anti	1.74691e-06	0.999995	9.49492e-06	0.999972
rad53	1.18744e-06	0.999997	6.45406e-06	0.999979
rad55	1.16170e-06	0.999998	6.31418e-06	0.999985
rad62	1.07271e-06	0.999999	5.83046e-06	0.999991
rad61	9.59661e-07	1.000000	5.21602e-06	0.999996
rad43	4.20278e-07	1.000000	2.28433e-06	0.999998
rad42	2.24298e-07	1.000000	1.21912e-06	1.000000
rad41	9.47630e-08	1.000000	5.15063e-07	1.000000
rad20	1.54922e-20	1.000000	8.42046e-20	1.000000
rad23	1.18657e-20	1.000000	6.44931e-20	1.000000
rad9	8.14066e-21	1.000000	4.42467e-20	1.000000
rad45	6.90049e-21	1.000000	3.75061e-20	1.000000
rad21	5.97853e-21	1.000000	3.24950e-20	1.000000
rad6	5.00342e-21	1.000000	2.71950e-20	1.000000
rad11	3.59957e-21	1.000000	1.95647e-20	1.000000
rad22	2.59193e-21	1.000000	1.40878e-20	1.000000
rad8	1.76788e-21	1.000000	9.60889e-21	1.000000
rad36	1.37405e-21	1.000000	7.46835e-21	1.000000
rad18	1.20669e-21	1.000000	6.55872e-21	1.000000
rad15	8.31113e-22	1.000000	4.51733e-21	1.000000
rad47	7.97227e-22	1.000000	4.33315e-21	1.000000
rad12	4.90407e-22	1.000000	2.66550e-21	1.000000
rad24	4.12849e-22	1.000000	2.24395e-21	1.000000
rad28	2.83269e-22	1.000000	1.53965e-21	1.000000
rad7	2.66533e-22	1.000000	1.44868e-21	1.000000
rad26	9.26845e-23	1.000000	5.03766e-22	1.000000
rad13	4.73266e-23	1.000000	2.57233e-22	1.000000
rad10	4.23601e-23	1.000000	2.30239e-22	1.000000
rad25	3.78502e-23	1.000000	2.05726e-22	1.000000
rad5	1.76140e-23	1.000000	9.57369e-23	1.000000
rad33	5.47163e-24	1.000000	2.97398e-23	1.000000
rad2	3.12685e-24	1.000000	1.69953e-23	1.000000
rad1	1.99797e-24	1.000000	1.08595e-23	1.000000
rad14	8.43867e-25	1.000000	4.58665e-24	1.000000
rad27	3.99728e-25	1.000000	2.17263e-24	1.000000
rad3	1.25759e-25	1.000000	6.83532e-25	1.000000
rad4	7.02476e-26	1.000000	3.81815e-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. In the high-temperature regime, it is usually an indication that thermal isomerisation is sufficiently fast to compete on the timescales we are interested in, and are hence included in the kinetic analysis.

Indene+H						
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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000	
1.00000e+08	1.18838e-13	4.87498e-13	1.09769e-12	1.96413e-12	3.11510e-12	
1.00000e+07	1.18835e-11	4.87480e-11	1.09762e-10	1.96398e-10	3.11480e-10	
1.00000e+06	1.18813e-09	4.87292e-09	1.09699e-08	1.96246e-08	3.11174e-08	
100000.	1.18588e-07	4.85428e-07	1.09070e-06	1.94743e-06	3.08174e-06	
10000.0	1.16413e-05	4.68001e-05	0.000103377	0.000181548	0.000282627	
1000.00	0.00100011	0.00360551	0.00731423	0.0119359	0.0173740	
100.000	0.0481014	0.117076	0.175024	0.221281	0.258315	
10.0000	0.358661	0.447670	0.502662	0.547212	0.585581	
1.00000	0.709562	0.820191	0.861452	0.881179	0.892571	
0.100000	0.918715	0.944366	0.960012	0.970521	0.977870	
0.0100000	0.993232	0.998689	0.999482	0.999677	0.999737	
0.00100000	0.999814	0.999815	0.999810	0.999803	0.999794	
0.000100000	0.999818	0.999815	0.999810	0.999803	0.999794	
1.00000e-05	0.999819	0.999817	0.999813	0.999807	0.999800	
1.00000e-06	0.999826	0.999832	0.999836	0.999839	0.999843	
1.00000e-07	0.999879	0.999913	0.999934	0.999949	0.999960	
1.00000e-08	0.999981	0.999993	0.999996	0.999998	0.999999	
1.00000e-09	0.999999	1.000000	1.000000	1.000000	1.000000	
Pa\K	70.0000	80.0000	90.0000	100.000	110.000	
1.00000e+08	4.59247e-12	6.45503e-12	8.78315e-12	1.16851e-11	1.53062e-11	
1.00000e+07	4.59192e-10	6.45411e-10	8.78168e-10	1.16829e-09	1.53027e-09	
1.00000e+06	4.58642e-08	6.44490e-08	8.76694e-08	1.16600e-07	1.52680e-07	
100000.	4.53268e-06	6.35517e-06	8.62405e-06	1.14397e-05	1.49356e-05	
10000.0	0.000408911	0.000563799	0.000751964	0.000979602	0.00125475	
1000.00	0.0235783	0.0305288	0.0382254	0.0466803	0.0559114	
100.000	0.288477	0.313596	0.335038	0.353814	0.370687	
10.0000	0.619357	0.649422	0.676366	0.700615	0.722491	
1.00000	0.900252	0.906115	0.911029	0.915428	0.919544	
0.100000	0.983151	0.987024	0.989911	0.992089	0.993749	
0.0100000	0.999755	0.999757	0.999751	0.999740	0.999727	
0.00100000	0.999784	0.999773	0.999760	0.999746	0.999731	
0.000100000	0.999785	0.999774	0.999762	0.999749	0.999734	
1.00000e-05	0.999793	0.999785	0.999776	0.999768	0.999760	
1.00000e-06	0.999848	0.999853	0.999860	0.999867	0.999876	
1.00000e-07	0.999969	0.999975	0.999980	0.999984	0.999987	
1.00000e-08	0.999999	0.999999	0.999999	1.000000	1.000000	
1.00000e-09	1.000000	1.000000	1.000000	1.000000	1.000000	
Pa\K	120.000	130.000	140.000	150.000	160.000	
1.00000e+08	1.98403e-11	2.55471e-11	3.27731e-11	4.19821e-11	5.37939e-11	
1.00000e+07	1.98351e-09	2.55393e-09	3.27616e-09	4.19650e-09	5.37684e-09	
1.00000e+06	1.97832e-07	2.54621e-07	3.26472e-07	4.17952e-07	5.35159e-07	
100000.	1.92887e-05	2.47327e-05	3.15757e-05	4.02230e-05	5.12068e-05	
10000.0	0.00158771	0.00199153	0.00248255	0.00308107	0.00381202	
1000.00	0.0659373	0.0767713	0.0884173	0.100865	0.114089	
100.000	0.386238	0.400920	0.415092	0.429039	0.442988	
10.0000	0.742245	0.760080	0.776166	0.790652	0.803673	
1.00000	0.923512	0.927407	0.931275	0.935138	0.939005	
0.100000	0.995023	0.996006	0.996765	0.997352	0.997805	
0.0100000	0.999710	0.999691	0.999669	0.999644	0.999616	
0.00100000	0.999713	0.999693	0.999671	0.999647	0.999619	
0.000100000	0.999718	0.999700	0.999681	0.999660	0.999638	
1.00000e-05	0.999753	0.999746	0.999741	0.999738	0.999737	
1.00000e-06	0.999885	0.999894	0.999904	0.999914	0.999923	
1.00000e-07	0.999990	0.999992	0.999993	0.999995	0.999996	
1.00000e-08	1.000000	1.000000	1.000000	1.000000	1.000000	

1.00000e-09	1.00000	1.00000	1.00000	1.00000	1.00000
Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	6.90387e-11	8.88277e-11	1.14650e-10	1.48502e-10	1.93057e-10
1.00000e+07	6.90005e-09	8.87703e-09	1.14563e-08	1.48369e-08	1.92854e-08
1.00000e+06	6.86231e-07	8.82031e-07	1.13706e-06	1.47066e-06	1.90861e-06
100000.	6.52240e-05	8.31851e-05	0.000106276	0.000136036	0.000174456
10000.0	0.00470559	0.00579792	0.00713160	0.00875592	0.0107269
1000.00	0.128044	0.142670	0.157888	0.173610	0.189740
100.000	0.457119	0.471568	0.486432	0.501771	0.517605
10.0000	0.815358	0.825830	0.835212	0.843627	0.851196
1.00000	0.942872	0.946726	0.950549	0.954318	0.958006
0.100000	0.998153	0.998416	0.998613	0.998756	0.998854
0.0100000	0.999585	0.999550	0.999510	0.999466	0.999418
0.00100000	0.999589	0.999555	0.999518	0.999478	0.999436
0.000100000	0.999616	0.999593	0.999572	0.999551	0.999533
1.00000e-05	0.999739	0.999743	0.999750	0.999759	0.999769
1.00000e-06	0.999932	0.999940	0.999948	0.999955	0.999961
1.00000e-07	0.999997	0.999997	0.999998	0.999998	0.999999
1.00000e-08	1.00000	1.00000	1.00000	1.00000	1.00000
1.00000e-09	1.00000	1.00000	1.00000	1.00000	1.00000

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.51899e-10	3.29824e-10	4.33247e-10	5.70738e-10	7.53726e-10
1.00000e+07	2.51585e-08	3.29336e-08	4.32489e-08	5.69555e-08	7.51877e-08
1.00000e+06	2.48526e-06	3.24621e-06	4.25200e-06	5.58266e-06	7.34379e-06
100000.	0.000224094	0.000288229	0.000371030	0.000477765	0.000615045
10000.0	0.0131067	0.0159628	0.0193665	0.0233905	0.0281068
1000.00	0.206181	0.222839	0.239630	0.256481	0.273339
100.000	0.533925	0.550685	0.567815	0.585218	0.602779
10.0000	0.858037	0.864265	0.869992	0.875320	0.880344
1.00000	0.961585	0.965030	0.968315	0.971419	0.974324
0.100000	0.998916	0.998948	0.998954	0.998939	0.998903
0.0100000	0.999364	0.999305	0.999241	0.999171	0.999096
0.00100000	0.999390	0.999343	0.999295	0.999246	0.999199
0.000100000	0.999517	0.999505	0.999497	0.999494	0.999496
1.00000e-05	0.999782	0.999796	0.999811	0.999827	0.999842
1.00000e-06	0.999967	0.999972	0.999976	0.999980	0.999983
1.00000e-07	0.999999	0.999999	0.999999	0.999999	0.999999
1.00000e-08	1.00000	1.00000	1.00000	1.00000	1.00000
1.00000e-09	1.00000	1.00000	1.00000	1.00000	1.00000

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	9.97425e-10	1.32205e-09	1.75440e-09	9.39515e-09	3.09529e-09
1.00000e+07	9.94532e-08	1.31752e-07	1.74731e-07	9.24340e-07	3.07800e-07
1.00000e+06	9.67416e-06	1.27554e-05	1.68245e-05	8.15187e-05	2.92454e-05
100000.	0.000791091	0.00101604	0.00130227	0.00458193	0.00212124
10000.0	0.0335833	0.0398808	0.0470499	0.0878929	0.0641379
1000.00	0.290165	0.306940	0.323661	0.373205	0.356995
100.000	0.620370	0.637860	0.655115	0.699050	0.688435
10.0000	0.885147	0.889801	0.894365	0.909477	0.903394
1.00000	0.977016	0.979489	0.981737	0.986104	0.985565
0.100000	0.998851	0.998783	0.998702	0.998644	0.998500
0.0100000	0.999016	0.998931	0.998843	0.998886	0.998660
0.00100000	0.999154	0.999112	0.999075	0.999194	0.999020
0.000100000	0.999502	0.999513	0.999528	0.999634	0.999569
1.00000e-05	0.999857	0.999872	0.999886	0.999915	0.999911
1.00000e-06	0.999986	0.999988	0.999990	0.999991	0.999992
1.00000e-07	0.999999	0.999999	0.999999	0.999999	0.999998
1.00000e-08	1.00000	1.00000	0.999999	0.999999	0.999998
1.00000e-09	1.00000	1.00000	0.999999	0.999999	0.999998

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.66297e-07	3.13601e-06	7.68547e-05	0.00168333	0.0122067
1.00000e+07	1.55120e-05	0.000255320	0.00374370	0.0258722	0.0772151
1.00000e+06	0.00105785	0.0103490	0.0609019	0.172033	0.294629
100000.	0.0308663	0.120742	0.287942	0.464352	0.599685
10000.0	0.227430	0.410124	0.607113	0.761421	0.846819
1000.00	0.544247	0.717636	0.851940	0.923562	0.947010
100.000	0.825218	0.905405	0.951949	0.971192	0.975320
10.0000	0.952693	0.977059	0.984938	0.987010	0.987663
1.00000	0.993953	0.994021	0.993364	0.993763	0.993632
0.100000	0.997444	0.996648	0.996934	0.997015	0.995743
0.0100000	0.998316	0.998535	0.998723	0.998036	0.996190
0.00100000	0.999285	0.999515	0.999234	0.998221	0.996247
0.000100000	0.999815	0.999780	0.999317	0.998241	0.996252

1.00000e-05	0.999957	0.999819	0.999325	0.998243	0.996252
1.00000e-06	0.999975	0.999822	0.999325	0.998243	0.996252
1.00000e-07	0.999976	0.999822	0.999326	0.998243	0.996252
1.00000e-08	0.999976	0.999822	0.999326	0.998243	0.996252
1.00000e-09	0.999976	0.999822	0.999326	0.998243	0.996252

Pa\K | 900.000 | 1000.00 | 1100.00 | 1200.00 | 1300.00

1.00000e+08	0.0321108	0.0506179	0.0666869	0.0741470	0.0731887
1.00000e+07	0.135252	0.183520	0.232697	0.272099	0.296104
1.00000e+06	0.397297	0.477944	0.550614	0.604255	0.636897
100000.	0.698239	0.764108	0.807820	0.830786	0.837580
10000.0	0.889386	0.907621	0.914672	0.914719	0.908119
1000.00	0.952974	0.954432	0.953711	0.948841	0.938073
100.000	0.976163	0.975574	0.971662	0.962885	0.948879
10.0000	0.987336	0.984355	0.977624	0.966720	0.951483
1.00000	0.991617	0.986879	0.978961	0.967442	0.951927
0.100000	0.992679	0.987345	0.979160	0.967535	0.951980
0.0100000	0.992842	0.987401	0.979180	0.967544	0.951985
0.00100000	0.992858	0.987405	0.979181	0.967544	0.951986
0.000100000	0.992859	0.987405	0.979181	0.967544	0.951986
1.00000e-05	0.992859	0.987405	0.979181	0.967544	0.951986
1.00000e-06	0.992859	0.987405	0.979181	0.967544	0.951986
1.00000e-07	0.992859	0.987405	0.979181	0.967544	0.951986
1.00000e-08	0.992859	0.987405	0.979181	0.967544	0.951986
1.00000e-09	0.992859	0.987405	0.979181	0.967544	0.951986

Pa\K | 1400.00 | 1500.00 | 1750.00 | 2000.00 | 2250.00

1.00000e+08	0.0695476	0.0660887	0.0781390	0.0896257	0.100846
1.00000e+07	0.312943	0.325217	0.251282	0.277484	0.278999
1.00000e+06	0.655736	0.663269	0.511873	0.486221	0.426996
100000.	0.833406	0.820997	0.670428	0.607286	0.518150
10000.0	0.895110	0.876255	0.771537	0.682226	0.566017
1000.00	0.921316	0.899026	0.810835	0.703156	0.575873
100.000	0.929832	0.905862	0.818292	0.706228	0.577056
10.0000	0.931763	0.907368	0.819399	0.706603	0.577181
1.00000	0.932077	0.907606	0.819542	0.706645	0.577194
0.100000	0.932114	0.907633	0.819557	0.706650	0.577195
0.0100000	0.932117	0.907636	0.819559	0.706650	0.577195
0.00100000	0.932117	0.907636	0.819559	0.706650	0.577195
0.000100000	0.932117	0.907636	0.819559	0.706650	0.577195
1.00000e-05	0.932117	0.907636	0.819559	0.706650	0.577195
1.00000e-06	0.932117	0.907636	0.819559	0.706650	0.577195
1.00000e-07	0.932117	0.907636	0.819559	0.706650	0.577195
1.00000e-08	0.932117	0.907636	0.819559	0.706650	0.577195
1.00000e-09	0.932117	0.907636	0.819559	0.706650	0.577195

Pa\K | 2500.00 | 2750.00 | 3000.00 | 3250.00 | 3500.00

1.00000e+08	0.108225	0.109754	0.105412	0.0968718	0.0863018
1.00000e+07	0.256488	0.220947	0.183100	0.148942	0.120429
1.00000e+06	0.355422	0.285858	0.225384	0.176120	0.137497
100000.	0.419800	0.327378	0.250062	0.189864	0.144754
10000.0	0.446087	0.340364	0.256065	0.192515	0.145873
1000.00	0.450285	0.342070	0.256741	0.192776	0.145968
100.000	0.450728	0.342236	0.256803	0.192798	0.145975
10.0000	0.450772	0.342252	0.256809	0.192800	0.145976
1.00000	0.450776	0.342254	0.256810	0.192800	0.145976
0.100000	0.450777	0.342254	0.256810	0.192800	0.145976
0.0100000	0.450777	0.342254	0.256810	0.192800	0.145976
0.00100000	0.450777	0.342254	0.256810	0.192800	0.145976
0.000100000	0.450777	0.342254	0.256810	0.192800	0.145976
1.00000e-05	0.450777	0.342254	0.256810	0.192800	0.145976
1.00000e-06	0.450777	0.342254	0.256810	0.192800	0.145976
1.00000e-07	0.450777	0.342254	0.256810	0.192800	0.145976
1.00000e-08	0.450777	0.342254	0.256810	0.192800	0.145976
1.00000e-09	0.450777	0.342254	0.256810	0.192800	0.145976

Pa\K | 3750.00 | 4000.00

1.00000e+08	0.0754305	0.0652782
1.00000e+07	0.0974780	0.0793006
1.00000e+06	0.107863	0.0853671
100000.	0.111502	0.0870766
10000.0	0.111943	0.0872242
1000.00	0.111972	0.0872282
100.000	0.111974	0.0872278
10.0000	0.111974	0.0872277
1.00000	0.111974	0.0872277

0.100000	0.111974	0.0872277
0.0100000	0.111974	0.0872277
0.00100000	0.111974	0.0872277
0.000100000	0.111974	0.0872277
1.00000e-05	0.111974	0.0872277
1.00000e-06	0.111974	0.0872277
1.00000e-07	0.111974	0.0872277
1.00000e-08	0.111974	0.0872277
1.00000e-09	0.111974	0.0872277

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	0.999996	0.999992	0.999987	0.999983	0.999979
1.00000e+07	0.999959	0.999916	0.999874	0.999832	0.999789
1.00000e+06	0.999585	0.999161	0.998744	0.998324	0.997895
100000.	0.995873	0.991690	0.987614	0.983551	0.979448
10000.0	0.960581	0.924121	0.891567	0.861736	0.833971
1000.00	0.729617	0.596076	0.514849	0.455715	0.408146
100.000	0.262593	0.123854	0.0669264	0.0393506	0.0245605
10.0000	0.00446395	0.000553051	0.000154424	6.16189e-05	3.00512e-05
1.00000	3.57626e-06	4.76274e-07	1.63001e-07	7.82091e-08	4.46330e-08
0.100000	9.42460e-09	2.26081e-09	1.08569e-09	6.62621e-10	4.55946e-10
0.0100000	1.80056e-10	7.21685e-11	4.38915e-11	3.08986e-11	2.34547e-11
0.00100000	1.22196e-11	5.81550e-12	3.77036e-12	2.74500e-12	2.12761e-12
0.000100000	1.16456e-12	5.67584e-13	3.70853e-13	2.71050e-13	2.10580e-13
1.00000e-05	1.15882e-13	5.66189e-14	3.70237e-14	2.70708e-14	2.10365e-14
1.00000e-06	1.15827e-14	5.66074e-15	3.70200e-15	2.70698e-15	2.10368e-15
1.00000e-07	1.15838e-15	5.66180e-16	3.70283e-16	2.70762e-16	2.10417e-16
1.00000e-08	1.15855e-16	5.66192e-17	3.70262e-17	2.70732e-17	2.10387e-17
1.00000e-09	1.15840e-17	5.66128e-18	3.70228e-18	2.70712e-18	2.10373e-18

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	0.999974	0.999970	0.999965	0.999960	0.999954
1.00000e+07	0.999745	0.999698	0.999650	0.999598	0.999543
1.00000e+06	0.997454	0.996995	0.996512	0.996001	0.995456
100000.	0.975261	0.970951	0.966474	0.961789	0.956851
10000.0	0.807831	0.782983	0.759165	0.736165	0.713807
1000.00	0.367638	0.331953	0.299863	0.270636	0.243813
100.000	0.0160326	0.0108368	0.00753061	0.00535160	0.00387356
10.0000	1.66627e-05	1.00954e-05	6.52377e-06	4.42577e-06	3.11782e-06
1.00000	2.83221e-08	1.93047e-08	1.38507e-08	1.03258e-08	7.92886e-09
0.100000	3.37015e-10	2.61127e-10	2.09119e-10	1.71564e-10	1.43347e-10
0.0100000	1.86468e-11	1.52927e-11	1.28222e-11	1.09278e-11	9.42972e-12
0.00100000	1.71581e-12	1.42192e-12	1.20177e-12	1.03071e-12	8.94000e-13
0.000100000	1.70089e-13	1.41117e-13	1.19370e-13	1.02449e-13	8.89094e-14
1.00000e-05	1.69944e-14	1.41013e-14	1.19294e-14	1.02392e-14	8.88654e-15
1.00000e-06	1.69954e-15	1.41028e-15	1.19311e-15	1.02410e-15	8.88848e-16
1.00000e-07	1.69990e-16	1.41054e-16	1.19329e-16	1.02422e-16	8.88914e-17
1.00000e-08	1.69963e-17	1.41029e-17	1.19308e-17	1.02403e-17	8.88746e-18
1.00000e-09	1.69953e-18	1.41022e-18	1.19302e-18	1.02398e-18	8.88710e-19

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	0.999948	0.999942	0.999935	0.999927	0.999918
1.00000e+07	0.999484	0.999419	0.999349	0.999271	0.999185
1.00000e+06	0.994868	0.994232	0.993537	0.992774	0.991932
100000.	0.951612	0.946020	0.940023	0.933566	0.926591
10000.0	0.691945	0.670453	0.649219	0.628147	0.607149
1000.00	0.219095	0.196280	0.175227	0.155837	0.138030
100.000	0.00284674	0.00211892	0.00159422	0.00121045	0.000926285
10.0000	2.26296e-06	1.68245e-06	1.27562e-06	9.82945e-07	7.67699e-07
1.00000	6.23191e-09	4.99081e-09	4.05851e-09	3.34244e-09	2.78209e-09
0.100000	1.21479e-10	1.04105e-10	9.00224e-11	7.84197e-11	6.87302e-11
0.0100000	8.21596e-12	7.21336e-12	6.37215e-12	5.65732e-12	5.04358e-12
0.00100000	7.82269e-13	6.89302e-13	6.10815e-13	5.43766e-13	4.85931e-13
0.000100000	7.78331e-14	6.86096e-14	6.08175e-14	5.41572e-14	4.84094e-14
1.00000e-05	7.77992e-15	6.85835e-15	6.07976e-15	5.41421e-15	4.83984e-15
1.00000e-06	7.78187e-16	6.86026e-16	6.08159e-16	5.41593e-16	4.84142e-16
1.00000e-07	7.78212e-17	6.86018e-17	6.08126e-17	5.41542e-17	4.84077e-17
1.00000e-08	7.78065e-18	6.85890e-18	6.08015e-18	5.41445e-18	4.83993e-18
1.00000e-09	7.78036e-19	6.85866e-19	6.07995e-19	5.41429e-19	4.83979e-19

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	0.999909	0.999898	0.999886	0.999873	0.999858
1.00000e+07	0.999090	0.998983	0.998863	0.998729	0.998578
1.00000e+06	0.990998	0.989959	0.988799	0.987501	0.986046

100000.	0.919043	0.910864	0.902001	0.892404	0.882029
10000.0	0.586149	0.565077	0.543874	0.522495	0.500905
1000.00	0.121742	0.106910	0.0934749	0.0813703	0.0705269
100.000	0.000713629	0.000553034	0.000430799	0.000337124	0.000264909
10.0000	6.06425e-07	4.83666e-07	3.88957e-07	3.15044e-07	2.56789e-07
1.00000	2.33663e-09	1.97773e-09	1.68525e-09	1.44457e-09	1.24485e-09
0.100000	6.05479e-11	5.35746e-11	4.75863e-11	4.24116e-11	3.79168e-11
0.0100000	4.51216e-12	4.04887e-12	3.64274e-12	3.28512e-12	2.96913e-12
0.00100000	4.35653e-13	3.91663e-13	3.52979e-13	3.18821e-13	2.88562e-13
0.000100000	4.34103e-14	3.90350e-14	3.51861e-14	3.17866e-14	2.87744e-14
1.00000e-05	4.34026e-15	3.90300e-15	3.51833e-15	3.17856e-15	2.87750e-15
1.00000e-06	4.34170e-16	3.90428e-16	3.51945e-16	3.17951e-16	2.87829e-16
1.00000e-07	4.34096e-17	3.90348e-17	3.51862e-17	3.17868e-17	2.87746e-17
1.00000e-08	4.34022e-18	3.90284e-18	3.51806e-18	3.17819e-18	2.87704e-18
1.00000e-09	4.34011e-19	3.90274e-19	3.51798e-19	3.17812e-19	2.87697e-19

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	0.999840	0.999821	0.999799	0.999774	0.999746
1.00000e+07	0.998407	0.998214	0.997996	0.997750	0.997471
1.00000e+06	0.984413	0.982580	0.980522	0.978212	0.975621
100000.	0.870839	0.858803	0.845902	0.832128	0.817480
10000.0	0.479086	0.457038	0.434780	0.412353	0.389816
1000.00	0.0608696	0.0523186	0.0447908	0.0382010	0.0324639
100.000	0.000208947	0.000165380	0.000131324	0.000104605	8.35713e-05
10.0000	2.10484e-07	1.73409e-07	1.43535e-07	1.19331e-07	9.96253e-08
1.00000	1.07792e-09	9.37535e-10	8.18847e-10	7.18039e-10	6.32075e-10
0.100000	3.39961e-11	3.05645e-11	2.75526e-11	2.49032e-11	2.25687e-11
0.0100000	2.68915e-12	2.44056e-12	2.21948e-12	2.02267e-12	1.84732e-12
0.00100000	2.61692e-13	2.37786e-13	2.16488e-13	1.97495e-13	1.80549e-13
0.000100000	2.60989e-14	2.37181e-14	2.15966e-14	1.97045e-14	1.80161e-14
1.00000e-05	2.61006e-15	2.37207e-15	2.15998e-15	1.97082e-15	1.80200e-15
1.00000e-06	2.61070e-16	2.37257e-16	2.16036e-16	1.97107e-16	1.80215e-16
1.00000e-07	2.60990e-17	2.37179e-17	2.15961e-17	1.97037e-17	1.80149e-17
1.00000e-08	2.60953e-18	2.37147e-18	2.15933e-18	1.97013e-18	1.80128e-18
1.00000e-09	2.60947e-19	2.37142e-19	2.15929e-19	1.97009e-19	1.80125e-19

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	0.999714	0.999678	0.999637	0.999344	0.999539
1.00000e+07	0.997155	0.996797	0.996393	0.993536	0.995421
1.00000e+06	0.972720	0.969476	0.965855	0.942669	0.957343
100000.	0.801972	0.785625	0.768471	0.687743	0.731907
10000.0	0.367247	0.344741	0.322407	0.242872	0.278725
1000.00	0.0274954	0.0232141	0.0195424	0.0150564	0.0137428
100.000	6.69633e-05	5.38119e-05	4.33696e-05	0.000107072	2.84227e-05
10.0000	8.35127e-08	7.02875e-08	5.93943e-08	7.49837e-07	4.29334e-08
1.00000	5.58518e-10	4.95389e-10	4.41071e-10	1.70249e-08	3.53767e-10
0.100000	2.05089e-11	1.86897e-11	1.70822e-11	9.11360e-10	1.44056e-11
0.0100000	1.69104e-12	1.55175e-12	1.42762e-12	7.96230e-11	1.21868e-12
0.00100000	1.65426e-13	1.51930e-13	1.39890e-13	7.83866e-12	1.19596e-13
0.000100000	1.65090e-14	1.51640e-14	1.39639e-14	7.82709e-13	1.19409e-14
1.00000e-05	1.65130e-15	1.51680e-15	1.39678e-15	7.82735e-14	1.19443e-15
1.00000e-06	1.65136e-16	1.51678e-16	1.39669e-16	7.82757e-15	1.19424e-16
1.00000e-07	1.65075e-17	1.51621e-17	1.39617e-17	7.82693e-16	1.19379e-17
1.00000e-08	1.65056e-18	1.51604e-18	1.39602e-18	7.82666e-17	1.19368e-18
1.00000e-09	1.65054e-19	1.51602e-19	1.39600e-19	7.82661e-18	1.19366e-19

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	0.997763	0.992365	0.973741	0.920285	0.851728
1.00000e+07	0.978773	0.936009	0.839564	0.697517	0.594088
1.00000e+06	0.848328	0.683738	0.484436	0.321200	0.246091
100000.	0.468310	0.260056	0.125061	0.0650235	0.0473231
10000.0	0.0935713	0.0293102	0.00973552	0.00462942	0.00371829
1000.00	0.00300743	0.000678684	0.000228775	0.000141371	0.000161748
100.000	2.17158e-05	6.76529e-06	3.82021e-06	4.14571e-06	7.58260e-06
10.0000	2.37676e-07	1.22836e-07	1.15401e-07	1.94347e-07	4.87020e-07
1.00000	7.40796e-09	5.15387e-09	6.33789e-09	1.33352e-08	3.91072e-08
0.100000	4.60488e-10	3.64152e-10	5.00180e-10	1.15139e-09	3.59247e-09
0.0100000	4.18823e-11	3.41091e-11	4.79365e-11	1.12275e-10	3.54138e-10
0.00100000	4.14421e-12	3.38735e-12	4.77310e-12	1.11984e-11	3.53563e-11
0.000100000	4.14079e-13	3.38569e-13	4.77100e-13	1.11938e-12	3.53464e-12
1.00000e-05	4.14088e-14	3.38526e-14	4.77003e-14	1.11921e-13	3.53440e-13
1.00000e-06	4.14047e-15	3.38477e-15	4.76952e-15	1.11915e-14	3.53435e-14
1.00000e-07	4.14011e-16	3.38457e-16	4.76939e-16	1.11914e-15	3.53434e-15
1.00000e-08	4.14001e-17	3.38453e-17	4.76937e-17	1.11914e-16	3.53434e-16
1.00000e-09	4.14000e-18	3.38453e-18	4.76936e-18	1.11914e-17	3.53434e-17

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
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1.00000e+08	0.811591	0.778116	0.715851	0.664972	0.643721
1.00000e+07	0.552760	0.523359	0.455952	0.378322	0.326325
1.00000e+06	0.221378	0.200909	0.158353	0.114039	0.0850712
100000.	0.0422439	0.0369822	0.0269756	0.0176254	0.0119030
10000.0	0.00372390	0.00354259	0.00270464	0.00178798	0.00119214
1000.00	0.000220170	0.000260067	0.000227338	0.000161781	0.000111380
100.000	1.42941e-05	2.04921e-05	1.99807e-05	1.50625e-05	1.06448e-05
10.0000	1.12117e-06	1.79660e-06	1.86134e-06	1.44852e-06	1.03864e-06
1.00000	9.94270e-08	1.68263e-07	1.79598e-07	1.41998e-07	1.02567e-07
0.100000	9.49536e-09	1.64089e-08	1.77165e-08	1.40936e-08	1.02089e-08
0.0100000	9.42205e-10	1.63397e-09	1.76763e-09	1.40763e-09	1.02013e-09
0.00100000	9.41326e-11	1.63314e-10	1.76716e-10	1.40743e-10	1.02004e-10
0.000100000	9.41196e-12	1.63304e-11	1.76711e-11	1.40740e-11	1.02003e-11
1.00000e-05	9.41174e-13	1.63302e-12	1.76710e-12	1.40740e-12	1.02003e-12
1.00000e-06	9.41170e-14	1.63302e-13	1.76710e-13	1.40740e-13	1.02003e-13
1.00000e-07	9.41170e-15	1.63302e-14	1.76710e-14	1.40740e-14	1.02003e-14
1.00000e-08	9.41170e-16	1.63302e-15	1.76710e-15	1.40740e-15	1.02003e-15
1.00000e-09	9.41170e-17	1.63302e-16	1.76710e-16	1.40740e-16	1.02003e-16

Pa\K | 1400.00 | 1500.00 | 1750.00 | 2000.00 | 2250.00

1.00000e+08	0.631423	0.618720	0.0958965	0.0830003	0.0705299
1.00000e+07	0.291194	0.262092	0.0377355	0.0261100	0.0175382
1.00000e+06	0.0665751	0.0532072	0.00702174	0.00394049	0.00223887
100000.	0.00851225	0.00629485	0.000801365	0.000414827	0.000225462
10000.0	0.000835708	0.000606658	7.99710e-05	4.08604e-05	2.20737e-05
1000.00	7.90491e-05	5.76491e-05	7.89993e-06	4.02951e-06	2.17464e-06
100.000	7.63887e-06	5.59738e-06	7.84255e-07	3.99743e-07	2.15673e-07
10.0000	7.49936e-07	5.50971e-07	7.81158e-08	3.98087e-08	2.14778e-08
1.00000	7.42908e-08	5.46572e-08	7.78915e-09	3.96967e-09	2.14184e-09
0.100000	7.40360e-09	5.45007e-09	7.77950e-10	3.96523e-10	2.13962e-10
0.0100000	7.39960e-10	5.44766e-10	7.77813e-11	3.96462e-11	2.13932e-11
0.00100000	7.39915e-11	5.44740e-11	7.77799e-12	3.96455e-12	2.13929e-12
0.000100000	7.39910e-12	5.44737e-12	7.77797e-13	3.96455e-13	2.13928e-13
1.00000e-05	7.39910e-13	5.44737e-13	7.77797e-14	3.96455e-14	2.13928e-14
1.00000e-06	7.39910e-14	5.44737e-14	7.77797e-15	3.96455e-15	2.13928e-15
1.00000e-07	7.39910e-15	5.44737e-15	7.77797e-16	3.96455e-16	2.13928e-16
1.00000e-08	7.39910e-16	5.44737e-16	7.77797e-17	3.96455e-17	2.13928e-17
1.00000e-09	7.39910e-17	5.44737e-17	7.77797e-18	3.96455e-18	2.13928e-18

Pa\K | 2500.00 | 2750.00 | 3000.00 | 3250.00 | 3500.00

1.00000e+08	0.0576435	0.0452099	0.0342671	0.0254138	0.0186888
1.00000e+07	0.0113630	0.00723266	0.00462039	0.00300864	0.00201354
1.00000e+06	0.00128740	0.000758203	0.000461777	0.000292212	0.000192250
100000.	0.000126643	7.36668e-05	4.45683e-05	2.81009e-05	1.84521e-05
10000.0	1.23616e-05	7.18010e-06	4.34127e-06	2.73678e-06	1.79721e-06
1000.00	1.21743e-06	7.07150e-07	4.27634e-07	2.69645e-07	1.77114e-07
100.000	1.20745e-07	7.01453e-08	4.24256e-08	2.67556e-08	1.75767e-08
10.0000	1.20253e-08	6.98661e-09	4.22604e-09	2.66536e-09	1.75110e-09
1.00000	1.19928e-09	6.96809e-10	4.21508e-10	2.65858e-10	1.74674e-10
0.100000	1.19811e-10	6.96170e-11	4.21142e-11	2.65640e-11	1.74538e-11
0.0100000	1.19795e-11	6.96087e-12	4.21096e-12	2.65612e-12	1.74521e-12
0.00100000	1.19794e-12	6.96078e-13	4.21091e-13	2.65610e-13	1.74519e-13
0.000100000	1.19794e-13	6.96078e-14	4.21090e-14	2.65609e-14	1.74519e-14
1.00000e-05	1.19794e-14	6.96078e-15	4.21090e-15	2.65609e-15	1.74519e-15
1.00000e-06	1.19794e-15	6.96077e-16	4.21090e-16	2.65609e-16	1.74519e-16
1.00000e-07	1.19794e-16	6.96077e-17	4.21090e-17	2.65609e-17	1.74519e-17
1.00000e-08	1.19794e-17	6.96077e-18	4.21090e-18	2.65609e-18	1.74519e-18
1.00000e-09	1.19794e-18	6.96077e-19	4.21090e-19	2.65609e-19	1.74519e-19

Pa\K | 3750.00 | 4000.00

1.00000e+08	0.0137772	0.0102583
1.00000e+07	0.00138907	0.000987663
1.00000e+06	0.000131270	9.27554e-05
100000.	1.25867e-05	8.88988e-06
10000.0	1.22618e-06	8.66264e-07
1000.00	1.20867e-07	8.54086e-08
100.000	1.19964e-08	8.47809e-09
10.0000	1.19524e-09	8.44747e-10
1.00000	1.19232e-10	8.42727e-11
0.100000	1.19143e-11	8.42128e-12
0.0100000	1.19132e-12	8.42054e-13
0.00100000	1.19131e-13	8.42047e-14
0.000100000	1.19131e-14	8.42046e-15
1.00000e-05	1.19131e-15	8.42046e-16
1.00000e-06	1.19131e-16	8.42046e-17
1.00000e-07	1.19131e-17	8.42046e-18

1.00000e-08 | 1.19131e-18 8.42046e-19
1.00000e-09 | 1.19131e-19 8.42046e-20

PhCH2CCH+H

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	8.27399e-45	2.44302e-44	7.98747e-44	3.20616e-43	1.57212e-42
1.00000e+07	8.25897e-44	2.43425e-43	7.94571e-43	3.18446e-42	1.55918e-41
1.00000e+06	8.13041e-43	2.37120e-42	7.69048e-42	3.06825e-41	1.49592e-40
100000.	8.69865e-42	3.55107e-41	1.55337e-40	7.59385e-40	4.18688e-39
10000.0	6.56911e-40	3.29029e-39	1.20792e-38	4.67023e-38	2.04174e-37
1000.00	1.38105e-38	2.50797e-38	5.20908e-38	1.35870e-37	4.41739e-37
100.000	1.66017e-38	1.64028e-38	2.32033e-38	4.48609e-38	1.16424e-37
10.0000	1.22660e-39	3.34368e-40	3.82437e-40	9.06910e-40	3.11948e-39
1.00000	2.80206e-40	7.19757e-40	1.93406e-39	6.02010e-39	2.28271e-38
0.100000	2.59580e-39	6.90940e-39	1.83840e-38	5.63154e-38	2.10486e-37
0.0100000	2.33945e-38	5.62412e-38	1.36314e-37	3.83181e-37	1.32258e-36
0.00100000	9.65820e-38	1.18674e-37	1.71722e-37	3.18176e-37	7.75651e-37
0.000100000	1.30461e-38	3.67821e-39	2.49158e-39	2.90468e-39	5.20383e-39
1.00000e-05	3.54548e-41	7.02413e-42	4.61891e-42	5.60380e-42	1.07186e-41
1.00000e-06	8.79404e-44	2.53177e-44	2.09081e-44	3.03650e-44	7.00262e-44
1.00000e-07	7.99613e-46	3.41396e-46	3.65157e-46	6.67593e-46	2.04924e-45
1.00000e-08	2.61655e-47	1.60122e-47	2.09438e-47	4.46771e-47	1.58556e-46
1.00000e-09	2.04275e-48	1.40709e-48	1.93059e-48	4.23994e-48	1.53856e-47

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	9.58849e-42	7.76210e-41	9.51451e-40	2.11336e-38	9.60142e-37
1.00000e+07	9.49612e-41	7.67709e-40	9.39944e-39	2.08628e-37	9.47903e-36
1.00000e+06	9.06649e-40	7.28619e-39	8.85703e-38	1.95009e-36	8.79436e-35
100000.	2.70451e-38	2.21503e-37	2.63839e-36	5.43998e-35	2.15204e-33
10000.0	1.06434e-36	7.23299e-36	7.54931e-35	1.52325e-33	6.87767e-32
1000.00	1.85706e-36	1.13834e-35	1.32081e-34	3.85429e-33	2.87513e-31
100.000	4.28993e-37	2.63290e-36	3.63798e-35	1.43946e-33	1.73211e-31
10.0000	1.51307e-38	1.19670e-37	2.06282e-36	9.71896e-35	1.61329e-32
1.00000	1.16412e-37	9.64438e-37	1.72782e-35	7.58245e-34	7.52076e-32
0.100000	1.06376e-36	8.79950e-36	1.58160e-34	6.94149e-33	6.83163e-31
0.0100000	6.20706e-36	4.79231e-35	8.08843e-34	3.37743e-32	3.28794e-30
0.00100000	2.70660e-36	1.62086e-35	2.24856e-34	8.81562e-33	1.10944e-30
0.000100000	1.46839e-38	7.78413e-38	1.29426e-36	1.16584e-34	5.26621e-32
1.00000e-05	3.35987e-41	2.60351e-40	1.79588e-38	5.30730e-36	4.28175e-33
1.00000e-06	3.15112e-43	6.97769e-42	1.31172e-39	4.82624e-37	4.18296e-34
1.00000e-07	1.49433e-44	5.74828e-43	1.27057e-40	4.77992e-38	4.17309e-35
1.00000e-08	1.34001e-45	5.63199e-44	1.26653e-41	4.77530e-39	4.17211e-36
1.00000e-09	1.32457e-46	5.62041e-45	1.26613e-42	4.77484e-40	4.17201e-37

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	6.85796e-35	6.24693e-33	5.38241e-31	4.90044e-29	1.69755e-27
1.00000e+07	6.77488e-34	6.17918e-32	5.33300e-30	4.86837e-28	1.68656e-26
1.00000e+06	6.25390e-33	5.70185e-31	4.94765e-29	4.59780e-27	1.59218e-25
100000.	1.27279e-31	8.89520e-30	5.54821e-28	3.99334e-26	1.28525e-24
10000.0	4.82655e-30	3.88309e-28	1.98490e-26	7.12669e-25	1.62981e-23
1000.00	3.03930e-29	4.00115e-27	2.33657e-25	7.60206e-24	1.55088e-22
100.000	3.09382e-29	1.06077e-26	7.08618e-25	2.25516e-23	4.40667e-22
10.0000	5.03542e-30	1.19131e-26	8.67752e-25	2.77291e-23	5.38805e-22
1.00000	9.59801e-30	1.32846e-26	9.68539e-25	3.11934e-23	6.11358e-22
0.100000	8.44218e-29	2.52733e-26	1.73886e-24	5.74536e-23	1.16252e-21
0.0100000	4.22833e-28	9.24597e-26	6.03100e-24	1.94144e-22	3.83961e-21
0.00100000	2.32404e-28	1.57419e-25	1.08714e-23	3.39485e-22	6.50199e-21
0.000100000	2.57536e-29	1.64043e-25	1.17655e-23	3.67396e-22	7.01398e-21
1.00000e-05	2.56064e-30	1.64543e-25	1.18592e-23	3.70387e-22	7.06928e-21
1.00000e-06	2.55846e-31	1.64591e-25	1.18686e-23	3.70688e-22	7.07485e-21
1.00000e-07	2.55823e-32	1.64596e-25	1.18695e-23	3.70718e-22	7.07541e-21
1.00000e-08	2.55821e-33	1.64596e-25	1.18696e-23	3.70721e-22	7.07546e-21
1.00000e-09	2.55821e-34	1.64596e-25	1.18697e-23	3.70721e-22	7.07547e-21

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.59092e-26	5.41563e-25	6.27545e-24	5.78698e-23	4.39425e-22
1.00000e+07	3.56652e-25	5.37638e-24	6.22642e-23	5.73800e-22	4.35379e-21
1.00000e+06	3.35630e-24	5.03935e-23	5.80841e-22	5.32431e-21	4.01596e-20
100000.	2.59789e-23	3.77973e-22	4.23738e-21	3.78694e-20	2.78768e-19
10000.0	2.65072e-22	3.27245e-21	3.20489e-20	2.56123e-19	1.71466e-18
1000.00	2.25751e-21	2.49534e-20	2.18821e-19	1.57212e-18	9.50870e-18
100.000	6.09987e-21	6.37953e-20	5.27530e-19	3.57020e-18	2.03470e-17
10.0000	7.39185e-21	7.64904e-20	6.25456e-19	4.18671e-18	2.36168e-17
1.00000	8.47095e-21	8.86921e-20	7.35481e-19	5.00464e-18	2.87720e-17
0.100000	1.66881e-20	1.81518e-19	1.56641e-18	1.10920e-17	6.62749e-17

0.0100000	5.38083e-20	5.69331e-19	4.75471e-18	3.24260e-17	1.85730e-16
0.00100000	8.80606e-20	8.98946e-19	7.23832e-18	4.76167e-17	2.63387e-16
0.000100000	9.45388e-20	9.59651e-19	7.68141e-18	5.02357e-17	2.76316e-16
1.00000e-05	9.52399e-20	9.66212e-19	7.72914e-18	5.05167e-17	2.77697e-16
1.00000e-06	9.53105e-20	9.66873e-19	7.73395e-18	5.05450e-17	2.77836e-16
1.00000e-07	9.53176e-20	9.66939e-19	7.73444e-18	5.05479e-17	2.77849e-16
1.00000e-08	9.53183e-20	9.66946e-19	7.73448e-18	5.05481e-17	2.77851e-16
1.00000e-09	9.53184e-20	9.66946e-19	7.73449e-18	5.05482e-17	2.77851e-16

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.82248e-21	1.56684e-20	7.65315e-20	3.33954e-19	1.31871e-18
1.00000e+07	2.79410e-20	1.54958e-19	7.56063e-19	3.29516e-18	1.29942e-17
1.00000e+06	2.56034e-19	1.40963e-18	6.82309e-18	2.94797e-17	1.15160e-16
100000.	1.73496e-18	9.32371e-18	4.40388e-17	1.85593e-16	7.06812e-16
10000.0	9.82880e-18	4.91320e-17	2.17557e-16	8.64928e-16	3.12328e-15
1000.00	4.95082e-17	2.26024e-16	9.18913e-16	3.37073e-15	1.12810e-14
100.000	9.99501e-17	4.31399e-16	1.66243e-15	5.79719e-15	1.85032e-14
10.0000	1.14949e-16	4.92231e-16	1.88469e-15	6.54069e-15	2.08119e-14
1.00000	1.43122e-16	6.28152e-16	2.47220e-15	8.84371e-15	2.90824e-14
0.100000	3.41742e-16	1.54890e-15	6.26480e-15	2.29009e-14	7.64704e-14
0.0100000	9.14354e-16	3.94362e-15	1.51422e-14	5.24654e-14	1.65939e-13
0.00100000	1.25418e-15	5.24206e-15	1.95459e-14	6.59087e-14	2.03315e-13
0.000100000	1.30884e-15	5.44394e-15	2.02087e-14	6.78704e-14	2.08612e-13
1.00000e-05	1.31464e-15	5.46530e-15	2.02785e-14	6.80761e-14	2.09165e-13
1.00000e-06	1.31523e-15	5.46744e-15	2.02856e-14	6.80968e-14	2.09221e-13
1.00000e-07	1.31529e-15	5.46766e-15	2.02863e-14	6.80989e-14	2.09226e-13
1.00000e-08	1.31529e-15	5.46768e-15	2.02863e-14	6.80991e-14	2.09227e-13
1.00000e-09	1.31529e-15	5.46768e-15	2.02863e-14	6.80991e-14	2.09227e-13

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	4.76407e-18	1.58932e-17	4.93508e-17	1.81271e-14	3.93848e-16
1.00000e+07	4.68728e-17	1.56109e-16	4.83851e-16	1.52597e-13	3.84526e-15
1.00000e+06	4.11200e-16	1.35462e-15	4.14999e-15	7.21000e-13	3.21576e-14
100000.	2.45915e-15	7.88945e-15	2.35265e-14	1.20004e-12	1.72526e-13
10000.0	1.03468e-14	3.17184e-14	9.06504e-14	1.45901e-12	6.15217e-13
1000.00	3.47776e-14	9.95782e-14	2.66716e-13	1.10515e-12	1.60455e-12
100.000	5.45810e-14	1.50038e-13	3.87106e-13	9.16621e-13	2.18196e-12
10.0000	6.13132e-14	1.68652e-13	4.36270e-13	1.61454e-12	2.48718e-12
1.00000	8.87540e-14	2.53370e-13	6.81117e-13	5.20050e-12	4.19885e-12
0.100000	2.35381e-13	6.73091e-13	1.80025e-12	9.96898e-12	1.07808e-11
0.0100000	4.83829e-13	1.31156e-12	3.32982e-12	8.73783e-12	1.80727e-11
0.00100000	5.79434e-13	1.53850e-12	3.83353e-12	7.66157e-12	2.01532e-11
0.000100000	5.92614e-13	1.56899e-12	3.89959e-12	7.54187e-12	2.04145e-11
1.00000e-05	5.93985e-13	1.57215e-12	3.90642e-12	7.53047e-12	2.04413e-11
1.00000e-06	5.94123e-13	1.57247e-12	3.90710e-12	7.52933e-12	2.04440e-11
1.00000e-07	5.94137e-13	1.57250e-12	3.90717e-12	7.52922e-12	2.04443e-11
1.00000e-08	5.94138e-13	1.57250e-12	3.90718e-12	7.52921e-12	2.04443e-11
1.00000e-09	5.94138e-13	1.57251e-12	3.90718e-12	7.52921e-12	2.04443e-11

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.30680e-11	4.18209e-09	7.62320e-07	6.11645e-05	0.00116679
1.00000e+07	9.96154e-11	1.74843e-07	9.91718e-06	0.000110854	0.000858575
1.00000e+06	1.26868e-09	4.12667e-06	0.000115291	0.000408884	0.000851541
100000.	7.60021e-09	6.14917e-06	0.000142138	0.000522610	0.000916043
10000.0	3.65386e-09	1.46658e-06	4.82825e-05	0.000297659	0.000688027
1000.00	9.21335e-10	2.38049e-07	1.45942e-05	0.000144331	0.000421490
100.000	7.84951e-10	1.01445e-07	5.23637e-06	5.82765e-05	0.000210849
10.0000	1.38324e-09	1.35041e-07	3.46005e-06	3.21196e-05	0.000147414
1.00000	3.11857e-09	2.14912e-07	3.81172e-06	2.99239e-05	0.000140637
0.100000	4.45460e-09	2.48182e-07	3.95647e-06	2.98803e-05	0.000140074
0.0100000	4.61726e-09	2.52330e-07	3.97228e-06	2.98768e-05	0.000140018
0.00100000	4.60567e-09	2.52621e-07	3.97360e-06	2.98762e-05	0.000140012
0.000100000	4.60366e-09	2.52646e-07	3.97372e-06	2.98762e-05	0.000140012
1.00000e-05	4.60346e-09	2.52649e-07	3.97373e-06	2.98762e-05	0.000140012
1.00000e-06	4.60344e-09	2.52649e-07	3.97373e-06	2.98762e-05	0.000140012
1.00000e-07	4.60343e-09	2.52649e-07	3.97373e-06	2.98762e-05	0.000140012
1.00000e-08	4.60343e-09	2.52649e-07	3.97373e-06	2.98762e-05	0.000140012
1.00000e-09	4.60343e-09	2.52649e-07	3.97373e-06	2.98762e-05	0.000140012

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.00598222	0.0156364	0.0290286	0.0383983	0.0412567
1.00000e+07	0.00410044	0.0132929	0.0312170	0.0499834	0.0606247
1.00000e+06	0.00213626	0.00651803	0.0167402	0.0282757	0.0362433
100000.	0.00147847	0.00293581	0.00635959	0.0113178	0.0172048
10000.0	0.00114022	0.00198445	0.00388174	0.00734667	0.0126307
1000.00	0.000798010	0.00157784	0.00327547	0.00638082	0.0113578

100.000	0.000546183	0.00134762	0.00301515	0.00601910	0.0109047
10.0000	0.000483711	0.00129540	0.00295328	0.00593337	0.0107978
1.00000	0.000476733	0.00128834	0.00294378	0.00592022	0.0107814
0.100000	0.000476019	0.00128753	0.00294267	0.00591872	0.0107796
0.0100000	0.000475947	0.00128744	0.00294255	0.00591856	0.0107794
0.00100000	0.000475940	0.00128743	0.00294254	0.00591855	0.0107794
0.000100000	0.000475939	0.00128743	0.00294254	0.00591855	0.0107794
1.00000e-05	0.000475939	0.00128743	0.00294254	0.00591855	0.0107794
1.00000e-06	0.000475939	0.00128743	0.00294254	0.00591855	0.0107794
1.00000e-07	0.000475939	0.00128743	0.00294254	0.00591855	0.0107794
1.00000e-08	0.000475939	0.00128743	0.00294254	0.00591855	0.0107794
1.00000e-09	0.000475939	0.00128743	0.00294254	0.00591855	0.0107794

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.0416065	0.0419579	0.460876	0.445140	0.435866
1.00000e+07	0.0651421	0.0679084	0.283560	0.276995	0.300263
1.00000e+06	0.0421641	0.0484930	0.128185	0.168729	0.238216
100000.	0.0244223	0.0336798	0.0810214	0.144320	0.228217
10000.0	0.0200530	0.0301780	0.0738615	0.141707	0.227645
1000.00	0.0187423	0.0291361	0.0729337	0.141708	0.227764
100.000	0.0182761	0.0287465	0.0727646	0.141757	0.227800
10.0000	0.0181619	0.0286433	0.0727211	0.141764	0.227805
1.00000	0.0181441	0.0286267	0.0727137	0.141765	0.227806
0.100000	0.0181421	0.0286248	0.0727128	0.141765	0.227806
0.0100000	0.0181419	0.0286246	0.0727127	0.141765	0.227806
0.00100000	0.0181419	0.0286246	0.0727127	0.141765	0.227806
0.000100000	0.0181419	0.0286246	0.0727127	0.141765	0.227806
1.00000e-05	0.0181419	0.0286246	0.0727127	0.141765	0.227806
1.00000e-06	0.0181419	0.0286246	0.0727127	0.141765	0.227806
1.00000e-07	0.0181419	0.0286246	0.0727127	0.141765	0.227806
1.00000e-08	0.0181419	0.0286246	0.0727127	0.141765	0.227806
1.00000e-09	0.0181419	0.0286246	0.0727127	0.141765	0.227806

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.438888	0.454835	0.480146	0.509454	0.538202
1.00000e+07	0.347714	0.404971	0.459739	0.506130	0.543073
1.00000e+06	0.318817	0.394450	0.457575	0.507146	0.544994
100000.	0.315823	0.394218	0.458201	0.507897	0.545634
10000.0	0.315897	0.394437	0.458411	0.508058	0.545746
1000.00	0.315973	0.394485	0.458443	0.508080	0.545761
100.000	0.315987	0.394491	0.458447	0.508082	0.545762
10.0000	0.315988	0.394492	0.458447	0.508082	0.545762
1.00000	0.315989	0.394492	0.458447	0.508082	0.545762
0.100000	0.315989	0.394492	0.458447	0.508082	0.545762
0.0100000	0.315989	0.394492	0.458447	0.508082	0.545762
0.00100000	0.315989	0.394492	0.458447	0.508082	0.545762
0.000100000	0.315989	0.394492	0.458447	0.508082	0.545762
1.00000e-05	0.315989	0.394492	0.458447	0.508082	0.545762
1.00000e-06	0.315989	0.394492	0.458447	0.508082	0.545762
1.00000e-07	0.315989	0.394492	0.458447	0.508082	0.545762
1.00000e-08	0.315989	0.394492	0.458447	0.508082	0.545762
1.00000e-09	0.315989	0.394492	0.458447	0.508082	0.545762

Pa\K	3750.00	4000.00
1.00000e+08	0.563761	0.585189
1.00000e+07	0.571662	0.593539
1.00000e+06	0.573604	0.595212
100000.	0.574088	0.595561
10000.0	0.574164	0.595611
1000.00	0.574174	0.595618
100.000	0.574175	0.595618
10.0000	0.574175	0.595618
1.00000	0.574175	0.595618
0.100000	0.574175	0.595618
0.0100000	0.574175	0.595618
0.00100000	0.574175	0.595618
0.000100000	0.574175	0.595618
1.00000e-05	0.574175	0.595618
1.00000e-06	0.574175	0.595618
1.00000e-07	0.574175	0.595618
1.00000e-08	0.574175	0.595618
1.00000e-09	0.574175	0.595618

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
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1.00000e+08	4.00050e-12	1.63960e-11	3.68510e-11	6.57746e-11	1.04004e-10
1.00000e+07	4.00031e-10	1.63944e-09	3.68455e-09	6.57614e-09	1.03978e-08
1.00000e+06	3.99833e-08	1.63780e-07	3.67903e-07	6.56293e-07	1.03714e-06
100000.	3.97871e-06	1.62158e-05	3.62453e-05	6.43323e-05	0.000101138
10000.0	0.000379079	0.00147283	0.00314495	0.00533735	0.00802423
1000.00	0.0249838	0.0705316	0.117269	0.161498	0.202477
100.000	0.347846	0.490768	0.544295	0.565451	0.572539
10.0000	0.558297	0.494154	0.437267	0.387831	0.344386
1.00000	0.205427	0.0827633	0.0396524	0.0211777	0.0122045
0.100000	0.00171192	0.000186772	6.09448e-05	3.10712e-05	1.92540e-05
0.0100000	4.26368e-06	6.31954e-07	1.72568e-07	6.35989e-08	2.81244e-08
0.00100000	1.87447e-09	1.11747e-10	2.30576e-11	7.77632e-12	3.40754e-12
0.000100000	3.08682e-13	3.61644e-14	1.20021e-14	5.72659e-15	3.27786e-15
1.00000e-05	7.02087e-16	1.61966e-16	7.36238e-17	4.27920e-17	2.82374e-17
1.00000e-06	9.51122e-18	3.28086e-18	1.85239e-18	1.24593e-18	9.16418e-19
1.00000e-07	4.40466e-19	2.00287e-19	1.27774e-19	9.22152e-20	7.10415e-20
1.00000e-08	3.85281e-20	1.86723e-20	1.21737e-20	8.88305e-21	6.88935e-21
1.00000e-09	3.79581e-21	1.85323e-21	1.21114e-21	8.84816e-22	6.86725e-22

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.52792e-10	2.13897e-10	2.89702e-10	3.83390e-10	4.99168e-10
1.00000e+07	1.52745e-08	2.13818e-08	2.89577e-08	3.83197e-08	4.98878e-08
1.00000e+06	1.52274e-06	2.13032e-06	2.88328e-06	3.81276e-06	4.95990e-06
100000.	0.000147687	0.000205428	0.000276317	0.000362930	0.000468609
10000.0	0.0112001	0.0148761	0.0190769	0.0238389	0.0292080
1000.00	0.240216	0.274933	0.306874	0.336258	0.363260
100.000	0.572686	0.569029	0.563060	0.555524	0.546798
10.0000	0.305856	0.271447	0.240559	0.212740	0.187640
1.00000	0.00744452	0.00474612	0.00313491	0.00213194	0.00148590
0.100000	1.30976e-05	9.36505e-06	6.89661e-06	5.17577e-06	3.93461e-06
0.0100000	1.40626e-08	7.67935e-09	4.47967e-09	2.74994e-09	1.75775e-09
0.00100000	1.75502e-12	1.00770e-12	6.25179e-13	4.10809e-13	2.82093e-13
0.000100000	2.09130e-15	1.43296e-15	1.03216e-15	7.71115e-16	5.92192e-16
1.00000e-05	2.01273e-17	1.51013e-17	1.17463e-17	9.38063e-18	7.64122e-18
1.00000e-06	7.11458e-19	5.72390e-19	4.72096e-19	3.96432e-19	3.37354e-19
1.00000e-07	5.70010e-20	4.70088e-20	3.95292e-20	3.37146e-20	2.90606e-20
1.00000e-08	5.55280e-21	4.59440e-21	3.87300e-21	3.30977e-21	2.85742e-21
1.00000e-09	5.53766e-22	4.58348e-22	3.86481e-22	3.30346e-22	2.85245e-22

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	6.42585e-10	8.20932e-10	1.04378e-09	1.32368e-09	1.67706e-09
1.00000e+07	6.42154e-08	8.20299e-08	1.04285e-07	1.32232e-07	1.67507e-07
1.00000e+06	6.37876e-06	8.14015e-06	1.03367e-05	1.30891e-05	1.65548e-05
100000.	0.000597650	0.000755525	0.000949155	0.00118722	0.00148052
10000.0	0.0352378	0.0419878	0.0495203	0.0578978	0.0671797
1000.00	0.388015	0.410623	0.431156	0.449669	0.466203
100.000	0.537070	0.526419	0.514869	0.502413	0.489030
10.0000	0.164986	0.144558	0.126174	0.109678	0.0949313
1.00000	0.00105776	0.000767082	0.000565585	0.000423333	0.000321258
0.100000	3.01846e-06	2.33104e-06	1.80903e-06	1.40907e-06	1.10055e-06
0.0100000	1.16088e-09	7.87565e-10	5.46421e-10	3.86378e-10	2.77699e-10
0.00100000	2.00520e-13	1.46543e-13	1.09550e-13	8.34546e-14	6.46004e-14
0.000100000	4.64584e-16	3.70649e-16	2.99713e-16	2.45014e-16	2.02108e-16
1.00000e-05	6.31959e-18	5.28872e-18	4.46740e-18	3.80160e-18	3.25417e-18
1.00000e-06	2.89972e-19	2.51153e-19	2.18804e-19	1.91475e-19	1.68133e-19
1.00000e-07	2.52494e-20	2.20709e-20	1.93813e-20	1.70785e-20	1.50884e-20
1.00000e-08	2.48595e-21	2.17542e-21	1.91214e-21	1.68634e-21	1.49091e-21
1.00000e-09	2.48197e-22	2.17219e-22	1.90949e-22	1.68415e-22	1.48909e-22

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.12543e-09	2.69694e-09	3.42835e-09	4.36770e-09	5.57761e-09
1.00000e+07	2.12252e-07	2.69265e-07	3.42201e-07	4.35826e-07	5.56353e-07
1.00000e+06	2.09383e-05	2.65049e-05	3.35980e-05	4.26614e-05	5.42662e-05
100000.	0.00184236	0.00228900	0.00284005	0.00351893	0.00435324
10000.0	0.0774182	0.0886547	0.100916	0.114209	0.128522
1000.00	0.480792	0.493469	0.504268	0.513223	0.520374
100.000	0.474699	0.459405	0.443151	0.425957	0.407871
10.0000	0.0818069	0.0701826	0.0599407	0.0509658	0.0431451
1.00000	0.000246919	0.000192032	0.000150981	0.000119897	9.60800e-05
0.100000	8.61358e-07	6.75197e-07	5.29893e-07	4.16237e-07	3.27199e-07
0.0100000	2.02441e-10	1.49445e-10	1.11580e-10	8.41848e-11	6.41476e-11
0.00100000	5.07041e-14	4.02912e-14	3.23818e-14	2.63084e-14	2.16067e-14
0.000100000	1.67973e-16	1.40502e-16	1.18187e-16	9.99263e-17	8.49030e-17
1.00000e-05	2.79880e-18	2.41639e-18	2.09275e-18	1.81714e-18	1.58127e-18
1.00000e-06	1.48018e-19	1.30564e-19	1.15335e-19	1.01990e-19	9.02586e-20
1.00000e-07	1.33557e-20	1.18383e-20	1.05034e-20	9.32506e-21	8.28222e-21
1.00000e-08	1.32055e-21	1.17118e-21	1.03965e-21	9.23441e-22	8.20514e-22

1.00000e-09 | 1.31902e-22 1.16990e-22 1.03857e-22 9.22521e-23 8.19732e-23

Pa\K | 220.000 230.000 240.000 250.000 260.000

1.00000e+08	7.13973e-09	9.16026e-09	1.17771e-08	1.51692e-08	1.95679e-08
1.00000e+07	7.11863e-07	9.12853e-07	1.17293e-06	1.50970e-06	1.94587e-06
1.00000e+06	6.91456e-05	8.82366e-05	0.000112732	0.000144143	0.000184371
100000.	0.00537508	0.00662121	0.00813307	0.00995662	0.0121419
10000.0	0.143816	0.160027	0.177064	0.194811	0.213127
1000.00	0.525762	0.529427	0.531411	0.531757	0.530504
100.000	0.388966	0.369343	0.349130	0.328475	0.307548
10.0000	0.0363684	0.0305290	0.0255251	0.0212599	0.0176434
1.00000	7.76209e-05	6.31570e-05	5.17050e-05	4.25491e-05	3.51633e-05
0.100000	2.57371e-07	2.02568e-07	1.59536e-07	1.25739e-07	9.91896e-08
0.0100000	4.93531e-11	3.83407e-11	3.00871e-11	2.38667e-11	1.91593e-11
0.00100000	1.79478e-14	1.50957e-14	1.28801e-14	1.11777e-14	9.90069e-15
0.000100000	7.25027e-17	6.22596e-17	5.38212e-17	4.69245e-17	4.13826e-17
1.00000e-05	1.37866e-18	1.20414e-18	1.05360e-18	9.23724e-19	8.11865e-19
1.00000e-06	7.99206e-20	7.07954e-20	6.27320e-20	5.56030e-20	4.92997e-20
1.00000e-07	7.35766e-21	6.53698e-21	5.80799e-21	5.16023e-21	4.58462e-21
1.00000e-08	7.29195e-22	6.48083e-22	5.75989e-22	5.11891e-22	4.54900e-22
1.00000e-09	7.28529e-23	6.47514e-23	5.75502e-23	5.11472e-23	4.54540e-23

Pa\K | 270.000 280.000 290.000 300.000 310.000

1.00000e+08	2.52719e-08	3.26658e-08	4.22439e-08	1.95620e-07	7.06615e-08
1.00000e+07	2.51068e-06	3.24164e-06	4.18673e-06	1.89730e-05	6.98072e-06
1.00000e+06	0.000235800	0.000301391	0.000384803	0.00148997	0.000623994
100000.	0.0147421	0.0178132	0.0214118	0.0496252	0.0304153
10000.0	0.231850	0.250801	0.269788	0.343223	0.307073
1000.00	0.527689	0.523349	0.517520	0.490097	0.501551
100.000	0.286529	0.265603	0.244955	0.198346	0.205189
10.0000	0.0145920	0.0120297	0.00988771	0.00984889	0.00662660
1.00000	2.91577e-05	2.42401e-05	2.01897e-05	4.27274e-05	1.40525e-05
0.100000	7.83332e-08	6.19488e-08	4.90777e-08	1.37586e-07	3.10240e-08
0.0100000	1.55886e-11	1.28805e-11	1.08341e-11	3.45129e-10	8.17601e-12
0.00100000	8.98937e-15	8.40725e-15	8.13893e-15	2.48619e-12	8.58791e-15
0.000100000	3.70777e-17	3.39623e-17	3.20673e-17	4.58960e-14	3.25755e-17
1.00000e-05	7.15947e-19	6.34433e-19	5.66340e-19	1.93547e-15	4.69782e-19
1.00000e-06	4.37291e-20	3.88116e-20	3.44796e-20	1.58349e-16	2.73594e-20
1.00000e-07	4.07325e-21	3.61914e-21	3.21612e-21	1.54591e-17	2.54215e-21
1.00000e-08	4.04239e-22	3.59221e-22	3.19236e-22	1.54204e-18	2.52249e-22
1.00000e-09	4.03927e-23	3.58949e-23	3.18996e-23	1.54164e-19	2.52050e-23

Pa\K | 400.000 500.000 600.000 700.000 800.000

1.00000e+08	2.58880e-06	3.51159e-05	0.000530201	0.00555667	0.0161137
1.00000e+07	0.000229524	0.00229820	0.0157251	0.0538574	0.0781209
1.00000e+06	0.0116411	0.0541993	0.141857	0.215053	0.205673
100000.	0.158898	0.295572	0.357531	0.314142	0.218873
10000.0	0.444248	0.403962	0.275972	0.149944	0.0717350
1000.00	0.339084	0.168118	0.0632086	0.0201786	0.00648253
100.000	0.0659889	0.0159592	0.00330365	0.000680259	0.000174131
10.0000	0.00150827	0.000217595	3.44789e-05	6.87901e-06	2.27144e-06
1.00000	6.15200e-06	1.07977e-06	2.81039e-07	9.63002e-08	4.66992e-08
0.100000	2.45563e-08	1.01385e-08	6.81570e-09	3.51055e-09	1.60155e-09
0.0100000	1.54142e-10	2.21258e-10	2.59120e-10	1.62756e-10	7.49618e-11
0.00100000	2.23657e-12	6.31646e-12	9.83100e-12	7.00561e-12	3.42281e-12
0.000100000	4.11711e-14	1.44000e-13	2.53350e-13	1.92376e-13	9.90887e-14
1.00000e-05	8.85772e-16	1.70937e-15	2.83735e-15	2.18761e-15	1.18610e-15
1.00000e-06	5.35725e-17	3.24048e-17	3.32740e-17	2.44237e-17	1.51757e-17
1.00000e-07	5.02383e-18	1.98431e-18	1.09613e-18	7.22924e-19	6.08260e-19
1.00000e-08	4.99065e-19	1.86144e-19	8.79395e-20	5.56637e-20	5.20958e-20
1.00000e-09	4.98731e-20	1.84922e-20	8.57805e-21	5.40153e-21	5.12340e-21

Pa\K | 900.000 1000.00 1100.00 1200.00 1300.00

1.00000e+08	0.0170163	0.0132705	0.0117107	0.0100651	0.00850990
1.00000e+07	0.0647081	0.0426022	0.0288743	0.0219072	0.0188036
1.00000e+06	0.148771	0.0954752	0.0602955	0.0399676	0.0301635
100000.	0.129168	0.0696455	0.0360593	0.0197905	0.0129141
10000.0	0.0310057	0.0131616	0.00574597	0.00284672	0.00176264
1000.00	0.00213090	0.000806661	0.000351537	0.000182743	0.000120859
100.000	5.77452e-05	2.71052e-05	1.48455e-05	9.07111e-06	6.71179e-06
10.0000	1.26739e-06	9.33611e-07	6.60191e-07	4.61210e-07	3.68613e-07
1.00000	3.58942e-08	3.26456e-08	2.66006e-08	2.05339e-08	1.78477e-08
0.100000	9.46410e-10	7.62178e-10	6.44964e-10	5.58695e-10	5.94216e-10
0.0100000	3.64228e-11	2.23323e-11	1.63215e-11	1.49158e-11	2.19868e-11
0.00100000	1.66718e-12	9.74110e-13	6.74724e-13	6.63920e-13	1.32036e-12
0.000100000	4.97204e-14	3.01996e-14	2.34643e-14	3.27788e-14	9.70053e-14

1.00000e-05	6.52043e-16	5.04560e-16	7.08758e-16	2.06124e-15	8.46835e-15
1.00000e-06	1.22256e-17	1.81752e-17	4.86414e-17	1.88550e-16	8.28077e-16
1.00000e-07	7.57766e-19	1.53210e-18	4.66274e-18	1.86883e-17	8.26184e-17
1.00000e-08	7.13452e-20	1.50501e-19	4.64358e-19	1.86722e-18	8.25998e-18
1.00000e-09	7.09068e-21	1.50233e-20	4.64168e-20	1.86706e-19	8.25979e-19

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00843023	0.0105553	0.00329166	0.00334589	0.00358608
1.00000e+07	0.0190444	0.0221921	0.0160988	0.00975528	0.00613256
1.00000e+06	0.0269121	0.0270211	0.0181164	0.00650349	0.00241019
100000.	0.0102031	0.00910547	0.00469730	0.00123422	0.000355357
10000.0	0.00135287	0.00118220	0.000579639	0.000141987	3.84275e-05
1000.00	9.96574e-05	9.37286e-05	5.47621e-05	1.40167e-05	3.78117e-06
100.000	6.09495e-06	6.35322e-06	4.88516e-06	1.33546e-06	3.64021e-07
10.0000	3.61260e-07	4.19376e-07	4.39135e-07	1.27238e-07	3.50682e-08
1.00000	1.97055e-08	2.69917e-08	4.03616e-08	1.22451e-08	3.40707e-09
0.100000	9.08509e-10	1.70723e-09	3.77142e-09	1.18637e-09	3.32554e-10
0.0100000	5.22589e-11	1.29224e-10	3.61152e-10	1.16533e-10	3.28685e-11
0.00100000	4.05614e-12	1.13076e-11	3.51534e-11	1.15370e-11	3.26880e-12
0.000100000	3.53313e-13	1.04862e-12	3.44817e-12	1.14570e-12	3.25702e-13
1.00000e-05	3.34721e-14	1.01863e-13	3.42768e-13	1.14336e-13	3.25373e-14
1.00000e-06	3.31825e-15	1.01395e-14	3.42513e-14	1.14307e-14	3.25334e-15
1.00000e-07	3.31521e-16	1.01345e-15	3.42487e-15	1.14304e-15	3.25330e-16
1.00000e-08	3.31491e-17	1.01340e-16	3.42485e-16	1.14304e-16	3.25329e-17
1.00000e-09	3.31488e-18	1.01339e-17	3.42484e-17	1.14304e-17	3.25329e-18

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00377010	0.00365875	0.00327043	0.00273121	0.00217257
1.00000e+07	0.00401764	0.00250324	0.00149782	0.000886635	0.000531408
1.00000e+06	0.00103488	0.000474632	0.000229960	0.000118256	6.46148e-05
100000.	0.000130596	5.49093e-05	2.53517e-05	1.26850e-05	6.82424e-06
10000.0	1.35806e-05	5.57717e-06	2.53884e-06	1.26025e-06	6.75397e-07
1000.00	1.32109e-06	5.37004e-07	2.42348e-07	1.19375e-07	6.35163e-08
100.000	1.26630e-07	5.10528e-08	2.28123e-08	1.11140e-08	5.84488e-09
10.0000	1.21578e-08	4.86107e-09	2.14867e-09	1.03383e-09	5.36341e-10
1.00000	1.17846e-09	4.68097e-10	2.05071e-10	9.76324e-11	5.00529e-11
0.100000	1.14758e-10	4.53084e-11	1.96878e-11	9.28238e-12	4.70665e-12
0.0100000	1.13457e-11	4.47324e-12	1.93969e-12	9.12235e-13	4.61261e-13
0.00100000	1.12935e-12	4.45294e-13	1.93055e-13	9.07702e-14	4.58830e-14
0.000100000	1.12614e-13	4.44119e-14	1.92558e-14	9.05386e-15	4.57664e-15
1.00000e-05	1.12529e-14	4.43819e-15	1.92436e-15	9.04838e-16	4.57398e-16
1.00000e-06	1.12518e-15	4.43783e-16	1.92421e-16	9.04775e-17	4.57367e-17
1.00000e-07	1.12517e-16	4.43780e-17	1.92420e-17	9.04769e-18	4.57364e-18
1.00000e-08	1.12517e-17	4.43779e-18	1.92420e-18	9.04768e-19	4.57364e-19
1.00000e-09	1.12517e-18	4.43779e-19	1.92420e-19	9.04768e-20	4.57364e-20

Pa\K	3750.00	4000.00
1.00000e+08	0.00167659	0.00127395
1.00000e+07	0.000326872	0.000207651
1.00000e+06	3.73986e-05	2.28190e-05
100000.	3.91850e-06	2.38467e-06
10000.0	3.87376e-07	2.35861e-07
1000.00	3.61781e-08	2.18797e-08
100.000	3.28935e-09	1.96534e-09
10.0000	2.97540e-10	1.75173e-10
1.00000	2.74107e-11	1.59175e-11
0.100000	2.54655e-12	1.45972e-12
0.0100000	2.48816e-13	1.42170e-13
0.00100000	2.47422e-14	1.41324e-14
0.000100000	2.46795e-15	1.40965e-15
1.00000e-05	2.46655e-16	1.40888e-16
1.00000e-06	2.46640e-17	1.40879e-17
1.00000e-07	2.46638e-18	1.40879e-18
1.00000e-08	2.46638e-19	1.40878e-19
1.00000e-09	2.46638e-20	1.40878e-20

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	3.64035e-06	7.36733e-06	1.10374e-05	1.47309e-05	1.84988e-05
1.00000e+07	3.64013e-05	7.36642e-05	0.000110353	0.000147273	0.000184930
1.00000e+06	0.000363792	0.000735737	0.00110150	0.00146911	0.00184357
100000.	0.00361593	0.00726776	0.0108147	0.0143356	0.0178770
10000.0	0.0340646	0.0645408	0.0907773	0.113885	0.134474
1000.00	0.202823	0.257143	0.263695	0.254053	0.238469
100.000	0.163580	0.0776894	0.0418124	0.0244966	0.0152469

10.0000	0.00274537	0.000338530	9.44854e-05	3.77306e-05	1.84228e-05
1.00000	2.20943e-06	2.97519e-07	1.02397e-07	4.92746e-08	2.81646e-08
0.100000	5.95673e-09	1.42750e-09	6.84912e-10	4.17764e-10	2.87348e-10
0.0100000	1.13057e-10	4.52004e-11	2.74665e-11	1.93318e-11	1.46766e-11
0.00100000	7.62851e-12	3.62931e-12	2.35336e-12	1.71401e-12	1.32920e-12
0.000100000	7.26376e-13	3.54056e-13	2.31407e-13	1.69209e-13	1.31534e-13
1.00000e-05	7.22725e-14	3.53170e-14	2.31016e-14	1.68991e-14	1.31398e-14
1.00000e-06	7.22378e-15	3.53099e-15	2.30995e-15	1.68988e-15	1.31402e-15
1.00000e-07	7.22467e-16	3.53179e-16	2.31057e-16	1.69035e-16	1.31438e-16
1.00000e-08	7.22593e-17	3.53187e-17	2.31041e-17	1.69014e-17	1.31417e-17
1.00000e-09	7.22479e-18	3.53141e-18	2.31016e-18	1.68998e-18	1.31406e-18

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	2.23832e-05	2.64266e-05	3.06740e-05	3.51748e-05	3.99840e-05
1.00000e+07	0.000223748	0.000264148	0.000306580	0.000351537	0.000399565
1.00000e+06	0.00222906	0.00262971	0.00304988	0.00349431	0.00396826
100000.	0.0214749	0.0251626	0.0289730	0.0329393	0.0370955
10000.0	0.152936	0.169543	0.184487	0.197898	0.209860
1000.00	0.220883	0.202956	0.185421	0.168610	0.152672
100.000	0.00993126	0.00670121	0.00465023	0.00330090	0.00238698
10.0000	1.02288e-05	6.20608e-06	4.01616e-06	2.72845e-06	1.92479e-06
1.00000	1.78876e-08	1.21985e-08	8.75480e-09	6.52818e-09	5.01364e-09
0.100000	2.12349e-10	1.64523e-10	1.31766e-10	1.08126e-10	9.03730e-11
0.0100000	1.16723e-11	9.57761e-12	8.03554e-12	6.85353e-12	5.91907e-12
0.00100000	1.07261e-12	8.89538e-13	7.52420e-13	6.45901e-13	5.60778e-13
0.000100000	1.06313e-13	8.82703e-14	7.47297e-14	6.41949e-14	5.57660e-14
1.00000e-05	1.06221e-14	8.82047e-15	7.46815e-15	6.41587e-15	5.57386e-15
1.00000e-06	1.06230e-15	8.82167e-16	7.46952e-16	6.41733e-16	5.57535e-16
1.00000e-07	1.06257e-16	8.82362e-17	7.47088e-17	6.41822e-17	5.57586e-17
1.00000e-08	1.06237e-17	8.82180e-18	7.46927e-18	6.41680e-18	5.57462e-18
1.00000e-09	1.06229e-18	8.82125e-19	7.46884e-19	6.41646e-19	5.57435e-19

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	4.51635e-05	5.07832e-05	5.69228e-05	6.36722e-05	7.11338e-05
1.00000e+07	0.000451280	0.000507379	0.000568652	0.000635992	0.000710413
1.00000e+06	0.00447758	0.00502885	0.00562945	0.00628765	0.00701271
100000.	0.0414765	0.0461176	0.0510544	0.0563213	0.0619507
10000.0	0.220418	0.229591	0.237379	0.243767	0.248733
1000.00	0.137670	0.123627	0.110545	0.0984188	0.0872342
100.000	0.00175286	0.00130387	0.000980469	0.000744119	0.000569225
10.0000	1.39894e-06	1.04144e-06	7.90607e-07	6.09947e-07	4.76929e-07
1.00000	3.94130e-09	3.15700e-09	2.56788e-09	2.11542e-09	1.76139e-09
0.100000	7.66207e-11	6.57000e-11	5.68520e-11	4.95646e-11	4.34810e-11
0.0100000	5.16215e-12	4.53701e-12	4.01257e-12	3.56696e-12	3.18438e-12
0.00100000	4.9214e-13	4.33335e-13	3.84472e-13	3.42728e-13	3.06719e-13
0.000100000	4.88712e-14	4.31298e-14	3.82795e-14	3.41334e-14	3.05551e-14
1.00000e-05	4.88502e-15	4.31139e-15	3.82675e-15	3.41246e-15	3.05490e-15
1.00000e-06	4.88652e-16	4.31285e-16	3.82815e-16	3.41378e-16	3.05611e-16
1.00000e-07	4.88671e-17	4.31280e-17	3.82791e-17	3.41340e-17	3.05563e-17
1.00000e-08	4.88563e-18	4.31185e-18	3.82709e-18	3.41268e-18	3.05500e-18
1.00000e-09	4.88541e-19	4.31167e-19	3.82694e-19	3.41256e-19	3.05490e-19

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	7.94230e-05	8.86705e-05	9.90240e-05	0.000110650	0.000123735
1.00000e+07	0.000793057	0.000885218	0.000988348	0.00110408	0.00123427
1.00000e+06	0.00781492	0.00870573	0.00969775	0.0108049	0.0120423
100000.	0.0679715	0.0744070	0.0812734	0.0885776	0.0963154
10000.0	0.252256	0.254320	0.254918	0.254059	0.251768
1000.00	0.0769730	0.0676113	0.0591198	0.0514633	0.0446015
100.000	0.000438419	0.000339685	0.000264565	0.000207018	0.000162666
10.0000	3.77152e-07	3.01118e-07	2.42394e-07	1.96515e-07	1.60319e-07
1.00000	1.47997e-09	1.25326e-09	1.06853e-09	9.16520e-10	7.90389e-10
0.100000	3.83451e-11	3.39693e-11	3.02123e-11	2.69664e-11	2.41475e-11
0.0100000	2.85311e-12	2.56429e-12	2.31109e-12	2.08813e-12	1.89110e-12
0.00100000	2.75411e-13	2.48017e-13	2.23923e-13	2.02645e-13	1.83795e-13
0.000100000	2.74427e-14	2.47183e-14	2.23214e-14	2.02040e-14	1.83276e-14
1.00000e-05	2.74388e-15	2.47161e-15	2.23207e-15	2.02045e-15	1.83291e-15
1.00000e-06	2.74498e-16	2.47260e-16	2.23293e-16	2.02119e-16	1.83353e-16
1.00000e-07	2.74443e-17	2.47200e-17	2.23230e-17	2.02055e-17	1.83290e-17
1.00000e-08	2.74388e-18	2.47152e-18	2.23188e-18	2.02019e-18	1.83258e-18
1.00000e-09	2.74379e-19	2.47144e-19	2.23182e-19	2.02013e-19	1.83253e-19

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	0.000138490	0.000155152	0.000173987	0.000195292	0.000219401
1.00000e+07	0.00138095	0.00154646	0.00173336	0.00194453	0.00218318
1.00000e+06	0.0134265	0.0149753	0.0167078	0.0186441	0.0208056

100000.	0.104469	0.113007	0.121882	0.131028	0.140366
10000.0	0.248089	0.243087	0.236849	0.229477	0.221093
1000.00	0.0384889	0.0330763	0.0283118	0.0241416	0.0205119
100.000	0.000128305	0.000101559	8.06549e-05	6.42557e-05	5.13469e-05
10.0000	1.31521e-07	1.08442e-07	8.98305e-08	7.47391e-08	6.24438e-08
1.00000	6.84976e-10	5.96332e-10	5.21390e-10	4.57742e-10	4.03471e-10
0.100000	2.16890e-11	1.95376e-11	1.76496e-11	1.59893e-11	1.45267e-11
0.0100000	1.71651e-12	1.56148e-12	1.42362e-12	1.30090e-12	1.19159e-12
0.00100000	1.67052e-13	1.52156e-13	1.38884e-13	1.27050e-13	1.16493e-13
0.000100000	1.66608e-14	1.51774e-14	1.38556e-14	1.26767e-14	1.16250e-14
1.00000e-05	1.66630e-15	1.51802e-15	1.38588e-15	1.26803e-15	1.16287e-15
1.00000e-06	1.66680e-16	1.51842e-16	1.38618e-16	1.26823e-16	1.16299e-16
1.00000e-07	1.66619e-17	1.51782e-17	1.38561e-17	1.26769e-17	1.16248e-17
1.00000e-08	1.66591e-18	1.51758e-18	1.38539e-18	1.26750e-18	1.16232e-18
1.00000e-09	1.66587e-19	1.51754e-19	1.38536e-19	1.26748e-19	1.16229e-19

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	0.000246686	0.000277564	0.000312496	0.000560862	0.000396646
1.00000e+07	0.00245287	0.00275754	0.00310155	0.00550520	0.00392726
1.00000e+06	0.0232142	0.0258923	0.0288626	0.0469139	0.0357669
100000.	0.149800	0.159221	0.168510	0.195659	0.186175
10000.0	0.211834	0.201844	0.191277	0.148413	0.169031
1000.00	0.0173692	0.0146619	0.0123409	0.00987632	0.00867618
100.000	4.11540e-05	3.30823e-05	2.66729e-05	6.86385e-05	1.74969e-05
10.0000	5.23839e-08	4.41219e-08	3.73132e-08	4.77196e-07	2.70178e-08
1.00000	3.57038e-10	3.17193e-10	2.82918e-10	1.08409e-08	2.27857e-10
0.100000	1.32368e-11	1.20983e-11	1.10930e-11	5.81937e-10	9.42193e-12
0.0100000	1.09420e-12	1.00744e-12	9.30192e-13	5.08912e-11	8.00426e-13
0.00100000	1.07075e-13	9.86747e-14	9.11875e-14	5.01080e-12	7.85930e-14
0.000100000	1.06866e-14	9.84951e-15	9.10333e-15	5.00383e-13	7.84799e-15
1.00000e-05	1.06903e-15	9.85315e-16	9.10685e-16	5.00461e-14	7.85110e-16
1.00000e-06	1.06908e-16	9.85307e-17	9.10623e-17	5.00490e-15	7.84963e-17
1.00000e-07	1.06860e-17	9.84862e-18	9.10208e-18	5.00427e-16	7.84606e-18
1.00000e-08	1.06846e-18	9.84733e-19	9.10095e-19	5.00401e-17	7.84516e-19
1.00000e-09	1.06844e-19	9.84716e-20	9.10080e-20	5.00396e-18	7.84505e-20

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	0.00189059	0.00634544	0.0208641	0.0538144	0.0751252
1.00000e+07	0.0176237	0.0499365	0.105895	0.143513	0.139020
1.00000e+06	0.110794	0.179043	0.188454	0.149684	0.119912
100000.	0.211208	0.146996	0.0790164	0.0442834	0.0332580
10000.0	0.0610948	0.0198627	0.00690713	0.00348007	0.00287836
1000.00	0.00199395	0.000461659	0.000163569	0.000107920	0.000128044
100.000	1.41510e-05	4.57476e-06	2.76492e-06	3.26842e-06	6.23256e-06
10.0000	1.55622e-07	8.53909e-08	8.83582e-08	1.64328e-07	4.23449e-07
1.00000	4.98761e-09	3.81184e-09	5.28233e-09	1.22120e-08	3.59093e-08
0.100000	3.19119e-10	2.83066e-10	4.40765e-10	1.10325e-09	3.39456e-09
0.0100000	2.92518e-11	2.68260e-11	4.27506e-11	1.08577e-10	3.36505e-10
0.00100000	2.89740e-12	2.66826e-12	4.26359e-12	1.08419e-11	3.36160e-11
0.000100000	2.89577e-13	2.66774e-13	4.26247e-13	1.08380e-12	3.36072e-12
1.00000e-05	2.89610e-14	2.66739e-14	4.26136e-14	1.08360e-13	3.36046e-13
1.00000e-06	2.89568e-15	2.66683e-15	4.26073e-15	1.08353e-14	3.36040e-14
1.00000e-07	2.89530e-16	2.66660e-16	4.26056e-16	1.08352e-15	3.36039e-15
1.00000e-08	2.89520e-17	2.66655e-17	4.26054e-17	1.08352e-16	3.36039e-16
1.00000e-09	2.89519e-18	2.66655e-18	4.26053e-18	1.08352e-17	3.36039e-17

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.0742036	0.0738100	0.0942984	0.119314	0.132130
1.00000e+07	0.123925	0.104954	0.0873713	0.0820142	0.0830805
1.00000e+06	0.103460	0.0851271	0.0620779	0.0455006	0.0363378
100000.	0.0285825	0.0227929	0.0152144	0.00964619	0.00656003
10000.0	0.00277093	0.00239551	0.00166066	0.00104688	0.000689821
1000.00	0.000167572	0.000179104	0.000141747	9.58380e-05	6.49545e-05
100.000	1.11692e-05	1.43288e-05	1.25918e-05	8.99229e-06	6.24059e-06
10.0000	9.05530e-07	1.27906e-06	1.18559e-06	8.70324e-07	6.11266e-07
1.00000	8.27246e-08	1.21545e-07	1.15205e-07	8.56181e-08	6.04737e-08
0.100000	8.01465e-09	1.19278e-08	1.13948e-08	8.50767e-09	6.02240e-09
0.0100000	7.97328e-10	1.18896e-09	1.13735e-09	8.49859e-10	6.01829e-10
0.00100000	7.96778e-11	1.18847e-10	1.13708e-10	8.49749e-11	6.01781e-11
0.000100000	7.96674e-12	1.18839e-11	1.13705e-11	8.49736e-12	6.01775e-12
1.00000e-05	7.96654e-13	1.18838e-12	1.13704e-12	8.49734e-13	6.01774e-13
1.00000e-06	7.96651e-14	1.18838e-13	1.13704e-13	8.49734e-14	6.01774e-14
1.00000e-07	7.96650e-15	1.18838e-14	1.13704e-14	8.49734e-15	6.01774e-15
1.00000e-08	7.96650e-16	1.18838e-15	1.13704e-15	8.49734e-16	6.01774e-16
1.00000e-09	7.96650e-17	1.18838e-16	1.13704e-16	8.49734e-17	6.01774e-17

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
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1.00000e+08	0.138105	0.142128	0.0111496	0.0121380	0.0125777
1.00000e+07	0.0843503	0.0842175	0.0100882	0.00840437	0.00637904
1.00000e+06	0.0303609	0.0255644	0.00319626	0.00186609	0.00106948
100000.	0.00474154	0.00352946	0.000411623	0.000210805	0.000112148
10000.0	0.000481362	0.000347604	4.17999e-05	2.09585e-05	1.10268e-05
1000.00	4.57560e-05	3.31232e-05	4.14725e-06	2.07064e-06	1.08605e-06
100.000	4.43815e-06	3.22488e-06	4.12660e-07	2.05538e-07	1.07666e-07
10.0000	4.36824e-07	3.18016e-07	4.11399e-08	2.04717e-08	1.07200e-08
1.00000	4.33188e-08	3.15687e-08	4.10282e-09	2.04126e-09	1.06883e-09
0.100000	4.31816e-09	3.14827e-09	4.09775e-10	2.03887e-10	1.06763e-10
0.0100000	4.31596e-10	3.14692e-10	4.09702e-11	2.03854e-11	1.06747e-11
0.00100000	4.31570e-11	3.14677e-11	4.09694e-12	2.03851e-12	1.06745e-12
0.000100000	4.31567e-12	3.14675e-12	4.09693e-13	2.03851e-13	1.06745e-13
1.00000e-05	4.31567e-13	3.14675e-13	4.09693e-14	2.03851e-14	1.06745e-14
1.00000e-06	4.31567e-14	3.14675e-14	4.09693e-15	2.03851e-15	1.06745e-15
1.00000e-07	4.31567e-15	3.14675e-15	4.09693e-16	2.03851e-16	1.06745e-16
1.00000e-08	4.31567e-16	3.14675e-16	4.09693e-17	2.03851e-17	1.06745e-17
1.00000e-09	4.31567e-17	3.14675e-17	4.09693e-18	2.03851e-18	1.06745e-18

Pa\K | 2500.00 2750.00 3000.00 3250.00 3500.00

1.00000e+08	0.0121787	0.0110042	0.00936133	0.00761076	0.00600991
1.00000e+07	0.00446176	0.00296576	0.00193247	0.00126279	0.000838802
1.00000e+06	0.000609430	0.000352004	0.000208963	0.000128404	8.18424e-05
100000.	6.13066e-05	3.45744e-05	2.02268e-05	1.23105e-05	7.79465e-06
10000.0	5.98768e-06	3.36260e-06	1.96191e-06	1.19198e-06	7.53873e-07
1000.00	5.88738e-07	3.30364e-07	1.92680e-07	1.17044e-07	7.40167e-08
100.000	5.83408e-08	3.27345e-08	1.90920e-08	1.15977e-08	7.33430e-09
10.0000	5.80850e-09	3.25913e-09	1.90087e-09	1.15471e-09	7.30230e-10
1.00000	5.79110e-10	3.24926e-10	1.89505e-10	1.15114e-10	7.27936e-11
0.100000	5.78480e-11	3.24582e-11	1.89309e-11	1.14996e-11	7.27204e-12
0.0100000	5.78397e-12	3.24538e-12	1.89283e-12	1.14981e-12	7.27113e-13
0.00100000	5.78388e-13	3.24533e-13	1.89281e-13	1.14980e-13	7.27103e-14
0.000100000	5.78387e-14	3.24532e-14	1.89281e-14	1.14980e-14	7.27102e-15
1.00000e-05	5.78387e-15	3.24532e-15	1.89281e-15	1.14980e-15	7.27102e-16
1.00000e-06	5.78387e-16	3.24532e-16	1.89281e-16	1.14980e-16	7.27102e-17
1.00000e-07	5.78387e-17	3.24532e-17	1.89281e-17	1.14980e-17	7.27102e-18
1.00000e-08	5.78387e-18	3.24532e-18	1.89281e-18	1.14980e-18	7.27102e-19
1.00000e-09	5.78387e-19	3.24532e-19	1.89281e-19	1.14980e-19	7.27102e-20

Pa\K | 3750.00 4000.00

1.00000e+08	0.00467433	0.00361844
1.00000e+07	0.000570104	0.000397415
1.00000e+06	5.40624e-05	3.69302e-05
100000.	5.12470e-06	3.48887e-06
10000.0	4.95265e-07	3.36995e-07
1000.00	4.86224e-08	3.30820e-08
100.000	4.81802e-09	3.27812e-09
10.0000	4.79693e-10	3.26371e-10
1.00000	4.78164e-11	3.25314e-11
0.100000	4.77689e-12	3.24994e-12
0.0100000	4.77630e-13	3.24954e-13
0.00100000	4.77624e-14	3.24950e-14
0.000100000	4.77623e-15	3.24950e-15
1.00000e-05	4.77623e-16	3.24950e-16
1.00000e-06	4.77623e-17	3.24950e-17
1.00000e-07	4.77623e-18	3.24950e-18
1.00000e-08	4.77623e-19	3.24950e-19
1.00000e-09	4.77623e-20	3.24950e-20

rad18

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08	5.08657e-07	1.03027e-06	1.54603e-06	2.06796e-06	2.60361e-06
1.00000e+07	5.08644e-06	1.03021e-05	1.54591e-05	2.06775e-05	2.60328e-05
1.00000e+06	5.08516e-05	0.000102969	0.000154473	0.000206563	0.000259993
100000.	0.000507242	0.00102448	0.00153306	0.00204484	0.00256709
10000.0	0.00494986	0.00976289	0.0142882	0.0186547	0.0229346
1000.00	0.0406223	0.0698750	0.0921401	0.110100	0.124901
100.000	0.162658	0.166999	0.143612	0.117826	0.0951548
10.0000	0.0355676	0.00741670	0.00240863	0.000998576	0.000482759
1.00000	4.43185e-05	3.54984e-06	8.49769e-07	3.12681e-07	1.44621e-07
0.100000	1.43244e-08	1.54978e-09	4.66932e-10	2.05647e-10	1.10279e-10
0.0100000	1.86628e-11	3.51876e-12	1.45315e-12	7.96957e-13	5.05650e-13
0.00100000	1.51675e-13	4.92028e-14	2.72823e-14	1.82226e-14	1.33683e-14
0.000100000	6.34254e-15	2.88033e-15	1.83920e-15	1.32952e-15	1.02640e-15
1.00000e-05	5.53655e-16	2.68518e-16	1.75288e-16	1.28132e-16	9.95901e-17

1.00000e-06	5.45674e-17	2.66584e-17	1.74437e-17	1.27661e-17	9.92958e-18
1.00000e-07	5.44946e-18	2.66440e-18	1.74387e-18	1.27641e-18	9.92863e-19
1.00000e-08	5.44939e-19	2.66425e-19	1.74370e-19	1.27624e-19	9.92711e-20
1.00000e-09	5.44867e-20	2.66398e-20	1.74355e-20	1.27615e-20	9.92650e-21

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	3.15942e-06	3.74194e-06	4.35827e-06	5.01629e-06	5.72490e-06
1.00000e+07	3.15893e-05	3.74125e-05	4.35732e-05	5.01503e-05	5.72325e-05
1.00000e+06	0.000315399	0.000373431	0.000434788	0.000500248	0.000570682
100000.	0.00310580	0.00366690	0.00425666	0.00488185	0.00554989
10000.0	0.0271792	0.0314314	0.0357297	0.0401093	0.0446031
1000.00	0.137155	0.147232	0.155373	0.161735	0.166425
100.000	0.0764441	0.0613368	0.0492290	0.0395411	0.0317844
10.0000	0.000259334	0.000150372	9.23575e-05	5.93148e-05	3.94665e-05
1.00000	7.70648e-08	4.51943e-08	2.83883e-08	1.87706e-08	1.29117e-08
0.100000	6.66656e-11	4.36533e-11	3.02483e-11	2.18536e-11	1.62991e-11
0.0100000	3.50402e-13	2.57445e-13	1.97089e-13	1.55494e-13	1.25498e-13
0.00100000	1.03742e-14	8.35420e-15	6.90328e-15	5.81203e-15	4.96199e-15
0.000100000	8.25604e-16	6.82839e-16	5.76067e-16	4.93128e-16	4.26787e-16
1.00000e-05	8.04734e-17	6.67776e-17	5.64773e-17	4.84416e-17	4.19920e-17
1.00000e-06	8.02753e-18	6.66376e-18	5.63749e-18	4.83648e-18	4.19334e-18
1.00000e-07	8.02701e-19	6.66340e-19	5.63716e-19	4.83613e-19	4.19294e-19
1.00000e-08	8.02566e-20	6.66221e-20	5.63613e-20	4.83523e-20	4.19216e-20
1.00000e-09	8.02522e-21	6.66189e-21	5.63587e-21	4.83503e-21	4.19200e-21

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	6.49423e-06	7.33589e-06	8.26315e-06	9.29122e-06	1.04375e-05
1.00000e+07	6.49209e-05	7.33314e-05	8.25963e-05	9.28672e-05	0.000104317
1.00000e+06	0.000647083	0.000730581	0.000822464	0.000924203	0.00103747
100000.	0.00626903	0.00704835	0.00789792	0.00882880	0.00985304
10000.0	0.0492414	0.0540520	0.0590591	0.0642823	0.0697348
1000.00	0.169515	0.171065	0.171125	0.169754	0.167021
100.000	0.0255648	0.0205697	0.0165526	0.0133183	0.0107126
10.0000	2.70214e-05	1.89389e-05	1.35340e-05	9.83002e-06	7.23836e-06
1.00000	9.16281e-09	6.66738e-09	4.95177e-09	3.74029e-09	2.86540e-09
0.100000	1.24620e-11	9.71824e-12	7.70036e-12	6.18157e-12	5.01617e-12
0.0100000	1.03079e-13	8.58401e-14	7.22724e-14	6.13892e-14	5.25210e-14
0.00100000	4.28145e-15	3.72460e-15	3.26094e-15	2.86935e-15	2.53484e-15
0.000100000	3.72485e-16	3.27208e-16	2.88892e-16	2.56073e-16	2.27689e-16
1.00000e-05	3.66979e-17	3.22734e-17	2.85218e-17	2.53030e-17	2.25151e-17
1.00000e-06	3.66525e-18	3.22379e-18	2.84936e-18	2.52805e-18	2.24969e-18
1.00000e-07	3.66481e-19	3.22331e-19	2.84886e-19	2.52753e-19	2.24916e-19
1.00000e-08	3.66414e-20	3.22273e-20	2.84835e-20	2.52708e-20	2.24877e-20
1.00000e-09	3.66401e-21	3.22262e-21	2.84826e-21	2.52701e-21	2.24871e-21

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.17218e-05	1.31669e-05	1.47984e-05	1.66458e-05	1.87422e-05
1.00000e+07	0.000117145	0.000131574	0.000147863	0.000166301	0.000187220
1.00000e+06	0.00116416	0.00130641	0.00146666	0.00164763	0.00185238
100000.	0.0109837	0.0122348	0.0136213	0.0151588	0.0168635
10000.0	0.0754220	0.0813390	0.0874690	0.0937810	0.100229
1000.00	0.163014	0.157843	0.151634	0.144536	0.136710
100.000	0.00861240	0.00691967	0.00555568	0.00445711	0.00357292
10.0000	5.39261e-06	4.05799e-06	3.08026e-06	2.35583e-06	1.81377e-06
1.00000	2.22149e-09	1.73989e-09	1.37466e-09	1.09440e-09	8.77100e-10
0.100000	4.10736e-12	3.38889e-12	2.81431e-12	2.35025e-12	1.97230e-12
0.0100000	4.51999e-14	3.90901e-14	3.39449e-14	2.95794e-14	2.58522e-14
0.00100000	2.24640e-15	1.99583e-15	1.77685e-15	1.58454e-15	1.41504e-15
0.000100000	2.02947e-16	1.81245e-16	1.62114e-16	1.45184e-16	1.30157e-16
1.00000e-05	2.00818e-17	1.79451e-17	1.60596e-17	1.43896e-17	1.29061e-17
1.00000e-06	2.00669e-18	1.79327e-18	1.60493e-18	1.43808e-18	1.28985e-18
1.00000e-07	2.00616e-19	1.79275e-19	1.60441e-19	1.43758e-19	1.28937e-19
1.00000e-08	2.00582e-20	1.79245e-20	1.60416e-20	1.43736e-20	1.28918e-20
1.00000e-09	2.00577e-21	1.79241e-21	1.60412e-21	1.43733e-21	1.28915e-21

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.11255e-05	2.38383e-05	2.69290e-05	3.04521e-05	3.44692e-05
1.00000e+07	0.000210993	0.000238042	0.000268847	0.000303943	0.000343936
1.00000e+06	0.00208434	0.00234731	0.00264555	0.00298373	0.00336702
100000.	0.0187520	0.0208412	0.0231476	0.0256872	0.0284749
10000.0	0.106751	0.113268	0.119685	0.125898	0.131788
1000.00	0.128327	0.119559	0.110579	0.101545	0.0926049
100.000	0.00286184	0.00229052	0.00183192	0.00146418	0.00116958
10.0000	1.40468e-06	1.09360e-06	8.55492e-07	6.72154e-07	5.30247e-07
1.00000	7.70712e-10	5.73114e-10	4.66743e-10	3.81798e-10	3.13599e-10
0.100000	1.66226e-12	1.40635e-12	1.19399e-12	1.01695e-12	8.68767e-13

0.0100000	2.26535e-14	1.98966e-14	1.75118e-14	1.54429e-14	1.36436e-14
0.00100000	1.26519e-15	1.13242e-15	1.01458e-15	9.09862e-16	8.16723e-16
0.000100000	1.16790e-16	1.04878e-16	9.42521e-17	8.47647e-17	7.62899e-17
1.00000e-05	1.15855e-17	1.04079e-17	9.35671e-18	8.41765e-18	7.57838e-18
1.00000e-06	1.15787e-18	1.04018e-18	9.35122e-19	8.41261e-19	7.57371e-19
1.00000e-07	1.15743e-19	1.03977e-19	9.34732e-20	8.40899e-20	7.57036e-20
1.00000e-08	1.15726e-20	1.03962e-20	9.34604e-21	8.40787e-21	7.56939e-21
1.00000e-09	1.15723e-21	1.03960e-21	9.34586e-22	8.40772e-22	7.56926e-22

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	3.90494e-05	4.42705e-05	5.02196e-05	9.44831e-05	6.47037e-05
1.00000e+07	0.000389505	0.000441409	0.000500498	0.000936453	0.000644123
1.00000e+06	0.00380107	0.00429201	0.00484652	0.00867843	0.00617534
100000.	0.0315240	0.0348456	0.0384480	0.0574153	0.0465093
10000.0	0.137234	0.142113	0.146309	0.145427	0.152240
1000.00	0.0838877	0.0755018	0.0675341	0.0466225	0.0530945
100.000	0.000933818	0.000745302	0.000594697	0.000738916	0.000378553
10.0000	4.19891e-07	3.33704e-07	2.66130e-07	1.86334e-06	1.70978e-07
1.00000	2.58582e-10	2.14006e-10	1.77748e-10	7.21877e-09	1.23907e-10
0.100000	7.44290e-13	6.39399e-13	5.50764e-13	8.48440e-11	4.11915e-13
0.0100000	1.20755e-14	1.07065e-14	9.50961e-15	2.70536e-12	7.54368e-15
0.00100000	7.33830e-16	6.60027e-16	5.94299e-16	1.97472e-13	4.83612e-16
0.000100000	6.87177e-17	6.19513e-17	5.59051e-17	1.89646e-14	4.56779e-17
1.00000e-05	6.82811e-18	6.15738e-18	5.55779e-18	1.88892e-15	4.54298e-18
1.00000e-06	6.82375e-19	6.15329e-19	5.55394e-19	1.88820e-16	4.53953e-19
1.00000e-07	6.82068e-20	6.15048e-20	5.55137e-20	1.88795e-17	4.53741e-20
1.00000e-08	6.81983e-21	6.14974e-21	5.55072e-21	1.88787e-18	4.53691e-21
1.00000e-09	6.81972e-22	6.14964e-22	5.55064e-22	1.88786e-19	4.53685e-22

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	0.000343640	0.00124178	0.00455115	0.0146464	0.0245281
1.00000e+07	0.00331789	0.0109269	0.0301558	0.0557769	0.0569644
1.00000e+06	0.0262993	0.0618971	0.0979892	0.0961917	0.0638145
100000.	0.108361	0.127412	0.0938251	0.0495619	0.0235534
10000.0	0.108918	0.0501088	0.0174757	0.00579002	0.00234254
1000.00	0.0120468	0.00254782	0.000560185	0.000159821	7.44224e-05
100.000	0.000108492	1.87620e-05	4.58638e-06	1.89293e-06	1.47344e-06
10.0000	3.22809e-07	7.83081e-08	3.05930e-08	2.16258e-08	2.77780e-08
1.00000	1.72386e-09	5.75819e-10	3.03080e-10	2.80148e-10	4.72029e-10
0.100000	2.64351e-11	1.12746e-11	7.34479e-12	8.08482e-12	1.61042e-11
0.0100000	1.02494e-12	5.19606e-13	3.94871e-13	4.96772e-13	1.10517e-12
0.00100000	8.08979e-14	4.34491e-14	3.45396e-14	4.50201e-14	1.02789e-13
0.000100000	7.85953e-15	4.25397e-15	3.40010e-15	4.44967e-15	1.01895e-14
1.00000e-05	7.83714e-16	4.24425e-16	3.39359e-16	4.44284e-16	1.01780e-15
1.00000e-06	7.83386e-17	4.24240e-17	3.39228e-17	4.44158e-17	1.01761e-16
1.00000e-07	7.83275e-18	4.24189e-18	3.39199e-18	4.44135e-18	1.01759e-17
1.00000e-08	7.83249e-19	4.24179e-19	3.39194e-19	4.44132e-19	1.01758e-18
1.00000e-09	7.83245e-20	4.24178e-20	3.39194e-20	4.44131e-20	1.01758e-19

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.0215666	0.0151334	0.0131314	0.0147939	0.0194132
1.00000e+07	0.0392829	0.0267579	0.0237081	0.0254365	0.0273346
1.00000e+06	0.0366181	0.0244731	0.0212627	0.0212658	0.0202485
100000.	0.0119404	0.00773683	0.00633728	0.00578791	0.00495872
10000.0	0.00120217	0.000829148	0.000697540	0.000638012	0.000543868
1000.00	4.97683e-05	4.36372e-05	4.33857e-05	4.54675e-05	4.33163e-05
100.000	1.56089e-06	1.88162e-06	2.36592e-06	3.04704e-06	3.36910e-06
10.0000	4.35180e-08	7.22290e-08	1.25760e-07	2.12339e-07	2.73746e-07
1.00000	1.04547e-09	2.74950e-09	7.54503e-09	1.65681e-08	2.39471e-08
0.100000	4.70962e-11	1.73259e-10	6.02018e-10	1.47619e-09	2.24215e-09
0.0100000	3.64407e-12	1.49152e-11	5.54680e-11	1.40910e-10	2.18078e-10
0.00100000	3.47445e-13	1.45033e-12	5.46081e-12	1.39657e-11	2.16929e-11
0.000100000	3.45464e-14	1.44555e-13	5.45095e-13	1.39516e-12	2.16800e-12
1.00000e-05	3.45223e-15	1.44501e-14	5.44989e-14	1.39501e-13	2.16786e-13
1.00000e-06	3.45191e-16	1.44494e-15	5.44978e-15	1.39499e-14	2.16785e-14
1.00000e-07	3.45187e-17	1.44494e-16	5.44977e-16	1.39499e-15	2.16785e-15
1.00000e-08	3.45186e-18	1.44493e-17	5.44977e-17	1.39499e-16	2.16785e-16
1.00000e-09	3.45186e-19	1.44493e-18	5.44977e-18	1.39499e-17	2.16785e-17

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.0260687	0.0320353	0.00397051	0.00388914	0.00392429
1.00000e+07	0.0280827	0.0289097	0.00578895	0.00385264	0.00263435
1.00000e+06	0.0170982	0.0138680	0.00249012	0.00106870	0.000514716
100000.	0.00368326	0.00256798	0.000379976	0.000132738	5.68557e-05
10000.0	0.000397741	0.000268821	3.95407e-05	1.32951e-05	5.58128e-06
1000.00	3.41282e-05	2.40105e-05	3.83951e-06	1.29098e-06	5.39511e-07

100.000	2.90275e-06	2.14481e-06	3.72632e-07	1.25701e-07	5.24120e-08
10.0000	2.55267e-07	1.96612e-07	3.64385e-08	1.23297e-08	5.13490e-09
1.00000	2.35589e-08	1.86534e-08	3.60059e-09	1.22160e-09	5.08811e-10
0.100000	2.26372e-09	1.81812e-09	3.58271e-10	1.21746e-10	5.07243e-11
0.0100000	2.22582e-10	1.79882e-10	3.57914e-11	1.21669e-11	5.06965e-12
0.00100000	2.21878e-11	1.79529e-11	3.57874e-12	1.21660e-12	5.06934e-13
0.000100000	2.21800e-12	1.79489e-12	3.57869e-13	1.21660e-13	5.06931e-14
1.00000e-05	2.21792e-13	1.79485e-13	3.57869e-14	1.21659e-14	5.06931e-15
1.00000e-06	2.21791e-14	1.79485e-14	3.57869e-15	1.21659e-15	5.06931e-16
1.00000e-07	2.21791e-15	1.79485e-15	3.57869e-16	1.21659e-16	5.06931e-17
1.00000e-08	2.21791e-16	1.79485e-16	3.57869e-17	1.21659e-17	5.06931e-18
1.00000e-09	2.21791e-17	1.79485e-17	3.57869e-18	1.21659e-18	5.06931e-19

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00369859	0.00321180	0.00259406	0.00198369	0.00146422
1.00000e+07	0.00168432	0.00102180	0.000607126	0.000362310	0.000220472
1.00000e+06	0.000255240	0.000130406	6.93327e-05	3.85514e-05	2.24280e-05
100000.	2.64799e-05	1.30865e-05	6.83262e-06	3.76003e-06	2.17395e-06
10000.0	2.57056e-06	1.26143e-06	6.55221e-07	3.59033e-07	2.06776e-07
1000.00	2.47345e-07	1.20854e-07	6.25072e-08	3.41015e-08	1.95496e-08
100.000	2.39525e-08	1.16631e-08	6.01035e-09	3.26631e-09	1.86473e-09
10.0000	2.34194e-09	1.13776e-09	5.84904e-10	3.17047e-10	1.80505e-10
1.00000	2.31974e-10	1.12643e-10	5.78781e-11	3.13557e-11	1.78416e-11
0.100000	2.31278e-11	1.12308e-11	5.77067e-12	3.12628e-12	1.77886e-12
0.0100000	2.31159e-12	1.12253e-12	5.76794e-13	3.12484e-13	1.77806e-13
0.00100000	2.31146e-13	1.12247e-13	5.76764e-14	3.12469e-14	1.77797e-14
0.000100000	2.31145e-14	1.12247e-14	5.76761e-15	3.12468e-15	1.77796e-15
1.00000e-05	2.31145e-15	1.12247e-15	5.76761e-16	3.12467e-16	1.77796e-16
1.00000e-06	2.31145e-16	1.12247e-16	5.76761e-17	3.12467e-17	1.77796e-17
1.00000e-07	2.31145e-17	1.12247e-17	5.76761e-18	3.12467e-18	1.77796e-18
1.00000e-08	2.31145e-18	1.12247e-18	5.76761e-19	3.12467e-19	1.77796e-19
1.00000e-09	2.31145e-19	1.12247e-19	5.76761e-20	3.12467e-20	1.77796e-20

Pa\K	3750.00	4000.00
1.00000e+08	0.00106085	0.000764164
1.00000e+07	0.000137845	8.88126e-05
1.00000e+06	1.36240e-05	8.61572e-06
100000.	1.31551e-06	8.29894e-07
10000.0	1.24652e-07	7.83364e-08
1000.00	1.17278e-08	7.33217e-09
100.000	1.11367e-09	6.92946e-10
10.0000	1.07487e-10	6.66720e-11
1.00000	1.06178e-11	6.58174e-12
0.100000	1.05861e-12	6.56191e-13
0.0100000	1.05814e-13	6.55905e-14
0.00100000	1.05809e-14	6.55875e-15
0.000100000	1.05809e-15	6.55872e-16
1.00000e-05	1.05808e-16	6.55872e-17
1.00000e-06	1.05808e-17	6.55872e-18
1.00000e-07	1.05808e-18	6.55872e-19
1.00000e-08	1.05808e-19	6.55872e-20
1.00000e-09	1.05808e-20	6.55872e-21

PhHCCH2+H
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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	5.91399e-41	6.15499e-40	3.30395e-39	1.52381e-38	6.95278e-38
1.00000e+07	5.91146e-38	6.14968e-37	3.29974e-36	1.52126e-35	6.93851e-35
1.00000e+06	5.88620e-35	6.09702e-34	3.25808e-33	1.49614e-32	6.79815e-32
100000.	5.64226e-32	5.60564e-31	2.88154e-30	1.27587e-29	5.60204e-29
10000.0	3.85690e-29	2.81192e-28	1.13002e-27	4.08225e-27	1.51053e-26
1000.00	4.95517e-27	1.55276e-26	3.71868e-26	9.30865e-26	2.62918e-25
100.000	3.31222e-26	5.27103e-26	9.91761e-26	2.25486e-25	6.29989e-25
10.0000	6.35942e-26	8.04205e-26	1.17859e-25	2.12669e-25	4.89827e-25
1.00000	1.42281e-26	6.49798e-27	1.15764e-26	3.73052e-26	1.50901e-25
0.100000	7.47061e-26	4.52280e-25	1.69628e-24	6.01850e-24	2.34042e-23
0.0100000	9.81151e-24	4.81293e-23	1.61587e-22	5.28459e-22	1.91899e-21
0.00100000	6.57221e-22	2.37963e-21	6.44119e-21	1.77151e-20	5.54534e-20
0.000100000	1.28057e-20	3.05096e-20	6.58637e-20	1.54374e-19	4.25426e-19
1.00000e-05	6.79922e-20	9.57165e-20	1.42078e-19	2.48092e-19	5.39111e-19
1.00000e-06	3.22908e-20	1.72209e-20	1.56154e-20	2.04493e-20	3.84229e-20
1.00000e-07	1.19439e-21	5.18987e-22	4.82377e-22	7.02689e-22	1.70061e-21
1.00000e-08	4.68650e-23	2.66764e-23	2.94533e-23	4.93566e-23	2.09246e-22
1.00000e-09	3.72659e-24	2.36580e-24	2.73209e-24	4.70696e-24	9.14391e-23

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
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1.00000e+08	3.41917e-37	1.97893e-36	1.48360e-35	1.49589e-34	1.80997e-33
1.00000e+07	3.41091e-34	1.97352e-33	1.47920e-32	1.49129e-31	1.80426e-30
1.00000e+06	3.33001e-31	1.92065e-30	1.43630e-29	1.44645e-28	1.74877e-27
100000.	2.65879e-28	1.49262e-27	1.09598e-26	1.09602e-25	1.32100e-24
10000.0	6.22437e-26	3.14990e-25	2.21490e-24	2.27351e-23	2.85751e-22
1000.00	9.03067e-25	4.30717e-24	3.49423e-23	4.81708e-22	7.60167e-21
100.000	2.33952e-24	1.37456e-23	1.62108e-22	3.18220e-21	5.99650e-20
10.0000	1.60031e-24	1.00466e-23	2.01485e-22	6.35507e-21	1.45056e-19
1.00000	7.83662e-25	6.71697e-24	1.79361e-22	6.85541e-21	1.69139e-19
0.100000	1.14229e-22	8.12556e-22	8.63678e-21	1.10690e-19	1.35079e-18
0.0100000	8.81841e-21	5.95738e-20	5.97740e-19	6.90479e-18	7.19529e-17
0.00100000	2.24071e-19	1.37748e-18	1.31537e-17	1.44635e-16	1.39563e-15
0.000100000	1.55254e-18	9.10545e-18	8.92963e-17	9.98358e-16	9.33857e-15
1.00000e-05	1.66862e-18	1.05914e-17	1.41986e-16	1.90180e-15	1.86099e-14
1.00000e-06	1.56816e-19	3.85637e-18	1.12217e-16	1.88873e-15	1.98134e-14
1.00000e-07	4.06909e-20	3.15087e-18	1.07786e-16	1.87701e-15	1.98964e-14
1.00000e-08	3.37817e-20	3.09142e-18	1.07356e-16	1.87577e-15	1.99043e-14
1.00000e-09	3.31542e-20	3.08562e-18	1.07313e-16	1.87564e-15	1.99051e-14

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.18159e-32	2.32756e-31	2.11255e-30	1.63145e-29	1.08761e-28
1.00000e+07	2.17438e-29	2.31927e-28	2.10424e-27	1.62422e-26	1.08211e-25
1.00000e+06	2.10458e-26	2.23925e-25	2.02430e-24	1.55511e-23	1.02994e-22
100000.	1.57588e-23	1.64775e-22	1.45187e-21	1.07909e-20	6.86703e-20
10000.0	3.43793e-21	3.49045e-20	2.90390e-19	1.99884e-18	1.16213e-17
1000.00	1.01217e-19	1.04705e-18	8.47824e-18	5.53630e-17	3.00854e-16
100.000	8.47329e-19	8.77415e-18	6.89688e-17	4.29297e-16	2.19697e-15
10.0000	2.16273e-18	2.22675e-17	1.69218e-16	1.00389e-15	4.86103e-15
1.00000	2.59275e-18	2.68818e-17	2.03957e-16	1.20476e-15	5.81210e-15
0.100000	1.39368e-17	1.17434e-16	8.12265e-16	4.70614e-15	2.33816e-14
0.0100000	6.17473e-16	4.32790e-15	2.52251e-14	1.25111e-13	5.39579e-13
0.00100000	1.08438e-14	6.79437e-14	3.51842e-13	1.54647e-12	5.90547e-12
0.000100000	6.78744e-14	3.89078e-13	1.81797e-12	7.14966e-12	2.43204e-11
1.00000e-05	1.32771e-13	7.26762e-13	3.20649e-12	1.18691e-11	3.80374e-11
1.00000e-06	1.44247e-13	7.91185e-13	3.47240e-12	1.27501e-11	4.05021e-11
1.00000e-07	1.45347e-13	7.97846e-13	3.50063e-12	1.28445e-11	4.07665e-11
1.00000e-08	1.45456e-13	7.98512e-13	3.50347e-12	1.28540e-11	4.07931e-11
1.00000e-09	1.45466e-13	7.98579e-13	3.50376e-12	1.28550e-11	4.07958e-11

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	6.37083e-28	3.33480e-27	1.58309e-26	6.90085e-26	2.79094e-25
1.00000e+07	6.33380e-25	3.31238e-24	1.57072e-23	6.83805e-23	2.76133e-22
1.00000e+06	5.98520e-22	3.10329e-21	1.45674e-20	6.26730e-20	2.49645e-19
100000.	3.80932e-19	1.87347e-18	8.29047e-18	3.34241e-17	1.24053e-16
10000.0	5.83249e-17	2.57678e-16	1.01905e-15	3.65848e-15	1.20630e-14
1000.00	1.39871e-15	5.69306e-15	2.06721e-14	6.79969e-14	2.05143e-13
100.000	9.53515e-15	3.59905e-14	1.20571e-13	3.64480e-13	1.00779e-12
10.0000	1.98971e-14	7.07763e-14	2.23665e-13	6.39182e-13	1.67584e-12
1.00000	2.37719e-14	8.49118e-14	2.71302e-13	7.90813e-13	2.13763e-12
0.100000	1.01798e-13	3.95561e-13	1.39240e-12	4.49326e-12	1.34204e-11
0.0100000	2.06156e-12	7.08656e-12	2.21962e-11	6.40051e-11	1.71363e-10
0.00100000	1.99727e-11	6.07698e-11	1.68488e-10	4.30218e-10	1.02076e-09
0.000100000	7.31731e-11	1.98303e-10	4.91307e-10	1.12647e-09	2.41442e-09
1.00000e-05	1.08168e-10	2.78289e-10	6.57784e-10	1.44615e-09	2.98689e-09
1.00000e-06	1.14189e-10	2.91448e-10	6.83991e-10	1.49440e-09	3.06993e-09
1.00000e-07	1.14833e-10	2.92849e-10	6.86768e-10	1.49949e-09	3.07864e-09
1.00000e-08	1.14898e-10	2.92990e-10	6.87048e-10	1.50000e-09	3.07952e-09
1.00000e-09	1.14904e-10	2.93005e-10	6.87076e-10	1.50005e-09	3.07960e-09

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.05627e-24	3.76755e-24	1.27401e-23	4.10461e-23	1.26524e-22
1.00000e+07	1.04320e-21	3.71323e-21	1.25263e-20	4.02456e-20	1.23663e-19
1.00000e+06	9.28413e-19	3.24588e-18	1.07294e-17	3.36927e-17	1.00914e-16
100000.	4.27552e-16	1.37834e-15	4.18179e-15	1.20021e-14	3.27324e-14
10000.0	3.68865e-14	1.05453e-13	2.83773e-13	7.22932e-13	1.75207e-12
1000.00	5.73458e-13	1.49779e-12	3.68062e-12	8.55937e-12	1.89304e-11
100.000	2.57745e-12	6.15459e-12	1.38297e-11	2.94400e-11	5.97110e-11
10.0000	4.07919e-12	9.30962e-12	2.00869e-11	4.12660e-11	8.12146e-11
1.00000	5.43150e-12	1.31173e-11	3.03734e-11	6.78705e-11	1.47009e-10
0.100000	3.73893e-11	9.77899e-11	2.41399e-10	5.65012e-10	1.25882e-09
0.0100000	4.28962e-10	1.00984e-09	2.24690e-09	4.74558e-09	9.55073e-09
0.00100000	2.26766e-09	4.74803e-09	9.42376e-09	1.78200e-08	3.22481e-08
0.000100000	4.87835e-09	9.35746e-09	1.71412e-08	3.01370e-08	5.10734e-08
1.00000e-05	5.84287e-09	1.08977e-08	1.94869e-08	3.35623e-08	5.58902e-08
1.00000e-06	5.97773e-09	1.11059e-08	1.97943e-08	3.39985e-08	5.64881e-08
1.00000e-07	5.99180e-09	1.11275e-08	1.98261e-08	3.40435e-08	5.65495e-08
1.00000e-08	5.99321e-09	1.11297e-08	1.98293e-08	3.40480e-08	5.65557e-08

1.00000e-09 | 5.99335e-09 1.11299e-08 1.98296e-08 3.40485e-08 5.65563e-08

Pa\K | 270.000 280.000 290.000 300.000 310.000

1.00000e+08 | 3.74473e-22 1.06735e-21 2.93706e-21 5.44096e-18 2.01601e-20
1.00000e+07 | 3.64679e-19 1.03517e-18 2.83530e-18 4.11833e-15 1.92511e-17
1.00000e+06 | 2.89264e-16 7.95815e-16 2.10651e-15 1.02994e-12 1.32491e-14
100000. | 8.51514e-14 2.12009e-13 5.06693e-13 3.35927e-11 2.58574e-12
10000.0 | 4.05640e-12 9.00377e-12 1.92199e-11 2.02897e-10 7.87246e-11
1000.00 | 3.99877e-11 8.09744e-11 1.57704e-10 5.24469e-10 5.38229e-10
100.000 | 1.15960e-10 2.16551e-10 3.90338e-10 6.58386e-10 1.15519e-09
10.0000 | 1.53946e-10 2.82401e-10 5.03470e-10 1.06824e-09 1.49082e-09
1.00000 | 3.09520e-10 6.34405e-10 1.26671e-09 6.74301e-09 4.67247e-09
0.100000 | 2.67880e-09 5.46128e-09 1.06952e-08 4.52298e-08 3.67043e-08
0.0100000 | 1.83791e-08 3.39250e-08 6.02398e-08 1.51858e-07 1.70880e-07
0.00100000 | 5.60716e-08 9.40081e-08 1.52457e-07 2.46929e-07 3.66939e-07
0.000100000 | 8.37355e-08 1.33232e-07 2.06286e-07 2.66998e-07 4.59861e-07
1.00000e-05 | 1.002845e-08 1.41870e-07 2.17369e-07 2.66822e-07 4.76831e-07
1.00000e-06 | 9.10787e-08 1.42895e-07 2.18660e-07 2.66624e-07 4.78746e-07
1.00000e-07 | 9.11600e-08 1.43000e-07 2.18792e-07 2.66602e-07 4.78940e-07
1.00000e-08 | 9.11682e-08 1.43011e-07 2.18805e-07 2.66600e-07 4.78959e-07
1.00000e-09 | 9.11690e-08 1.43012e-07 2.18806e-07 2.66599e-07 4.78961e-07

Pa\K | 400.000 500.000 600.000 700.000 800.000

1.00000e+08 | 1.06625e-14 1.18878e-10 4.72526e-08 1.17696e-05 0.000334057
1.00000e+07 | 7.90730e-12 9.15498e-08 5.44132e-06 6.56651e-05 0.000544428
1.00000e+06 | 1.12195e-09 2.72822e-06 7.78863e-05 0.000292227 0.000690059
100000. | 1.27722e-08 4.84551e-06 0.000100020 0.000374808 0.000706903
10000.0 | 2.62888e-08 2.02272e-06 4.13768e-05 0.000229367 0.000549111
1000.00 | 3.86253e-08 1.01649e-06 1.85143e-05 0.000137584 0.000430655
100.000 | 4.99511e-08 1.29931e-06 1.80351e-05 0.000127701 0.000465850
10.0000 | 1.42387e-07 4.42548e-06 4.57571e-05 0.000221644 0.000648929
1.00000 | 7.63942e-07 1.52339e-05 9.77441e-05 0.000326514 0.000770362
0.100000 | 2.68335e-06 3.06319e-05 0.000135337 0.000369865 0.000802447
0.0100000 | 4.92760e-06 3.91513e-05 0.000146786 0.000378120 0.000806776
0.00100000 | 5.84520e-06 4.10823e-05 0.000148499 0.000379051 0.000807194
0.000100000 | 5.98900e-06 4.13150e-05 0.000148677 0.000379142 0.000807235
1.00000e-05 | 6.00219e-06 4.13378e-05 0.000148695 0.000379152 0.000807240
1.00000e-06 | 6.00341e-06 4.13400e-05 0.000148697 0.000379153 0.000807240
1.00000e-07 | 6.00353e-06 4.13403e-05 0.000148697 0.000379153 0.000807240
1.00000e-08 | 6.00354e-06 4.13403e-05 0.000148697 0.000379153 0.000807240
1.00000e-09 | 6.00355e-06 4.13403e-05 0.000148697 0.000379153 0.000807240

Pa\K | 900.000 1000.00 1100.00 1200.00 1300.00

1.00000e+08 | 0.00156461 0.00311458 0.00438553 0.00474342 0.00422415
1.00000e+07 | 0.00222524 0.00564062 0.0105027 0.0146008 0.0167160
1.00000e+06 | 0.00176198 0.00454431 0.00967866 0.0147142 0.0179745
100000. | 0.00125018 0.00248603 0.00489188 0.00804217 0.0113204
10000.0 | 0.00101077 0.00193045 0.00372963 0.00643871 0.00961613
1000.00 | 0.000982436 0.00208220 0.00392858 0.00641289 0.00930365
100.000 | 0.00118214 0.00241262 0.00419184 0.00647635 0.00921816
10.0000 | 0.00142344 0.00262164 0.00430534 0.00649997 0.00919410
1.00000 | 0.00151913 0.00267716 0.00432771 0.00650284 0.00918858
0.100000 | 0.00153654 0.00268484 0.00433024 0.00650299 0.00918782
0.0100000 | 0.00153841 0.00268558 0.00433048 0.00650301 0.00918776
0.00100000 | 0.00153858 0.00268566 0.00433050 0.00650302 0.00918775
0.000100000 | 0.00153860 0.00268567 0.00433051 0.00650302 0.00918775
1.00000e-05 | 0.00153861 0.00268567 0.00433051 0.00650302 0.00918775
1.00000e-06 | 0.00153861 0.00268567 0.00433051 0.00650302 0.00918775
1.00000e-07 | 0.00153861 0.00268567 0.00433051 0.00650302 0.00918775
1.00000e-08 | 0.00153861 0.00268567 0.00433051 0.00650302 0.00918775
1.00000e-09 | 0.00153861 0.00268567 0.00433051 0.00650302 0.00918775

Pa\K | 1400.00 1500.00 1750.00 2000.00 2250.00

1.00000e+08 | 0.00355766 0.00318526 0.154362 0.159119 0.161676
1.00000e+07 | 0.0175520 0.0179755 0.144806 0.137328 0.131652
1.00000e+06 | 0.0201116 0.0218927 0.0710964 0.0751394 0.0853865
100000. | 0.0145210 0.0177289 0.0384841 0.0518223 0.0685705
10000.0 | 0.0129193 0.0163627 0.0295629 0.0445691 0.0635930
1000.00 | 0.0125020 0.0160467 0.0276516 0.0433997 0.0629125
100.000 | 0.0123942 0.0160098 0.0275195 0.0433500 0.0628662
10.0000 | 0.0123617 0.0159928 0.0275193 0.0433540 0.0628638
1.00000 | 0.0123546 0.0159880 0.0275193 0.0433548 0.0628636
0.100000 | 0.0123537 0.0159873 0.0275192 0.0433549 0.0628636
0.0100000 | 0.0123536 0.0159873 0.0275192 0.0433549 0.0628636
0.00100000 | 0.0123536 0.0159873 0.0275192 0.0433549 0.0628636
0.000100000 | 0.0123536 0.0159873 0.0275192 0.0433549 0.0628636

1.00000e-05	0.0123536	0.0159873	0.0275192	0.0433549	0.0628636
1.00000e-06	0.0123536	0.0159873	0.0275192	0.0433549	0.0628636
1.00000e-07	0.0123536	0.0159873	0.0275192	0.0433549	0.0628636
1.00000e-08	0.0123536	0.0159873	0.0275192	0.0433549	0.0628636
1.00000e-09	0.0123536	0.0159873	0.0275192	0.0433549	0.0628636

Pa\K | 2500.00 2750.00 3000.00 3250.00 3500.00

1.00000e+08	0.161819	0.159985	0.157143	0.154275	0.151998
1.00000e+07	0.129758	0.130949	0.133743	0.137074	0.140386
1.00000e+06	0.0977723	0.109801	0.120366	0.129075	0.135940
100000.	0.0863737	0.102889	0.116636	0.127272	0.135170
10000.0	0.0835498	0.101526	0.116060	0.127059	0.135109
1000.00	0.0832117	0.101384	0.116009	0.127045	0.135108
100.000	0.0831842	0.101372	0.116005	0.127045	0.135108
10.0000	0.0831820	0.101371	0.116005	0.127045	0.135108
1.00000	0.0831818	0.101371	0.116005	0.127045	0.135108
0.100000	0.0831818	0.101371	0.116005	0.127045	0.135108
0.0100000	0.0831818	0.101371	0.116005	0.127045	0.135108
0.00100000	0.0831818	0.101371	0.116005	0.127045	0.135108
0.000100000	0.0831818	0.101371	0.116005	0.127045	0.135108
1.00000e-05	0.0831818	0.101371	0.116005	0.127045	0.135108
1.00000e-06	0.0831818	0.101371	0.116005	0.127045	0.135108
1.00000e-07	0.0831818	0.101371	0.116005	0.127045	0.135108
1.00000e-08	0.0831818	0.101371	0.116005	0.127045	0.135108
1.00000e-09	0.0831818	0.101371	0.116005	0.127045	0.135108

Pa\K | 3750.00 4000.00

1.00000e+08	0.150527	0.149820
1.00000e+07	0.143431	0.146111
1.00000e+06	0.141203	0.145191
100000.	0.140938	0.145154
10000.0	0.140935	0.145170
1000.00	0.140938	0.145174
100.000	0.140939	0.145175
10.0000	0.140939	0.145175
1.00000	0.140939	0.145175
0.100000	0.140939	0.145175
0.0100000	0.140939	0.145175
0.00100000	0.140939	0.145175
0.000100000	0.140939	0.145175
1.00000e-05	0.140939	0.145175
1.00000e-06	0.140939	0.145175
1.00000e-07	0.140939	0.145175
1.00000e-08	0.140939	0.145175
1.00000e-09	0.140939	0.145175

Ph+Allene

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08	1.27002e-46	1.40283e-45	8.52998e-45	4.69128e-44	2.64938e-43
1.00000e+07	1.26884e-43	1.40022e-42	8.50650e-42	4.67432e-41	2.63758e-40
1.00000e+06	1.25718e-40	1.37451e-39	8.27676e-39	4.50951e-38	2.52371e-37
100000.	1.14865e-37	1.15129e-36	6.40399e-36	3.24211e-35	1.69431e-34
10000.0	5.46782e-35	3.27288e-34	1.25246e-33	4.72383e-33	1.93648e-32
1000.00	2.46507e-33	5.40729e-33	1.15819e-32	2.92619e-32	8.92376e-32
100.000	5.49376e-33	7.13849e-33	1.21650e-32	2.65978e-32	7.45033e-32
10.0000	2.31133e-33	1.09729e-33	9.19952e-34	1.22652e-33	2.47363e-33
1.00000	6.01626e-35	1.24975e-34	3.14374e-34	9.11355e-34	3.18918e-33
0.100000	4.49263e-34	1.17984e-33	3.02124e-33	8.73610e-33	3.04116e-32
0.0100000	4.36348e-33	1.11069e-32	2.76151e-32	7.76867e-32	2.63636e-31
0.00100000	3.30143e-32	6.55080e-32	1.31510e-31	3.06490e-31	8.78810e-31
0.000100000	4.87414e-32	3.31417e-32	3.31132e-32	4.67079e-32	9.13973e-32
1.00000e-05	1.29369e-33	3.26087e-34	2.22723e-34	2.62241e-34	4.70339e-34
1.00000e-06	5.42308e-36	1.53853e-36	1.21489e-36	1.64080e-36	3.45402e-36
1.00000e-07	5.11795e-38	2.13528e-38	2.16368e-38	3.66134e-38	1.02233e-37
1.00000e-08	1.68450e-39	1.00440e-39	1.24343e-39	2.45387e-39	7.91789e-39
1.00000e-09	1.31585e-40	8.82876e-41	1.14641e-40	2.32911e-40	7.68395e-40

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08	1.66169e-42	1.26856e-41	1.33873e-40	2.22575e-39	5.87471e-38
1.00000e+07	1.65295e-39	1.26093e-38	1.32984e-37	2.21024e-36	5.83429e-35
1.00000e+06	1.56910e-36	1.18819e-35	1.24557e-34	2.06374e-33	5.45316e-32
100000.	9.88582e-34	7.07267e-33	7.09758e-32	1.15585e-30	3.11129e-29
10000.0	9.22202e-32	5.61348e-31	5.13137e-30	8.64080e-29	2.81466e-27
1000.00	3.45209e-31	1.92213e-30	2.00153e-29	5.12943e-28	3.08116e-26
100.000	2.85983e-31	1.77848e-30	2.43518e-29	9.35474e-28	1.09263e-25

10.0000	7.89548e-33	4.93198e-32	1.14167e-30	1.34542e-28	1.18124e-25
1.00000	1.49000e-32	1.12562e-31	1.85705e-30	8.34926e-29	1.21893e-25
0.100000	1.41834e-31	1.07571e-30	1.76461e-29	7.05419e-28	1.78205e-25
0.0100000	1.20102e-30	8.91562e-30	1.43625e-28	5.69141e-27	6.40797e-25
0.00100000	3.43728e-30	2.22564e-29	3.24662e-28	1.30919e-26	1.88704e-24
0.000100000	2.65163e-31	1.38969e-30	2.22277e-29	1.89181e-27	1.95541e-24
1.00000e-05	1.35323e-33	9.46766e-33	5.86196e-31	1.55409e-28	1.91650e-24
1.00000e-06	1.39670e-35	2.74924e-34	4.61865e-32	1.51444e-29	1.91246e-24
1.00000e-07	6.67434e-37	2.28277e-35	4.50863e-33	1.51050e-30	1.91206e-24
1.00000e-08	5.98861e-38	2.23840e-36	4.49780e-34	1.51011e-31	1.91202e-24
1.00000e-09	5.91995e-39	2.23398e-37	4.49672e-35	1.51007e-32	1.91201e-24

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.84509e-36	5.18947e-35	1.14225e-33	1.93404e-32	2.55709e-31
1.00000e+07	1.83265e-33	5.15402e-32	1.13406e-30	1.91908e-29	2.53541e-28
1.00000e+06	1.71554e-30	4.82123e-29	1.05750e-27	1.78024e-26	2.33574e-25
100000.	9.99715e-28	2.81645e-26	6.08255e-25	9.94875e-24	1.25608e-22
10000.0	1.05775e-25	3.17279e-24	6.84327e-23	1.07754e-21	1.28171e-20
1000.00	1.57480e-24	5.28582e-23	1.17018e-21	1.81492e-20	2.07983e-19
100.000	6.87448e-24	2.42976e-22	5.35753e-21	8.05691e-20	8.81939e-19
10.0000	9.30976e-24	3.49264e-22	7.80494e-21	1.16643e-19	1.25689e-18
1.00000	9.90955e-24	3.76011e-22	8.45068e-21	1.26760e-19	1.37032e-18
0.100000	1.33625e-23	5.03141e-22	1.14369e-20	1.75374e-19	1.95294e-18
0.0100000	4.14085e-23	1.51233e-21	3.44782e-20	5.37442e-19	6.11275e-18
0.00100000	1.25166e-22	4.48226e-21	9.88327e-20	1.47677e-18	1.60032e-17
0.000100000	1.53175e-22	5.70831e-21	1.26597e-19	1.87567e-18	2.00232e-17
1.00000e-05	1.55307e-22	5.84439e-21	1.30008e-19	1.92644e-18	2.05396e-17
1.00000e-06	1.55508e-22	5.85797e-21	1.30354e-19	1.93164e-18	2.05925e-17
1.00000e-07	1.55528e-22	5.85933e-21	1.30389e-19	1.93216e-18	2.05978e-17
1.00000e-08	1.55530e-22	5.85946e-21	1.30392e-19	1.93221e-18	2.05983e-17
1.00000e-09	1.55530e-22	5.85947e-21	1.30393e-19	1.93221e-18	2.05984e-17

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.71780e-30	2.38957e-29	1.78397e-28	1.15577e-27	6.62045e-27
1.00000e+07	2.69224e-27	2.36441e-26	1.76281e-25	1.14026e-24	6.51956e-24
1.00000e+06	2.45904e-24	2.13761e-23	1.57463e-22	1.00444e-21	5.65204e-21
100000.	1.26248e-21	1.04055e-20	7.22133e-20	4.31477e-19	2.26205e-18
10000.0	1.19684e-19	9.07795e-19	5.75852e-18	3.13008e-17	1.48778e-16
1000.00	1.84607e-18	1.31938e-17	7.83793e-17	3.97206e-16	1.75419e-15
100.000	7.40780e-18	4.97997e-17	2.77201e-16	1.31324e-15	5.41555e-15
10.0000	1.03443e-17	6.80026e-17	3.69987e-16	1.71413e-15	6.92037e-15
1.00000	1.13204e-17	7.47891e-17	4.09635e-16	1.91470e-15	7.81959e-15
0.100000	1.67303e-17	1.15319e-16	6.62692e-16	3.26594e-15	1.41202e-14
0.0100000	5.34701e-17	3.74961e-16	2.17903e-15	1.07778e-14	4.63674e-14
0.00100000	1.32764e-16	8.80219e-16	4.82714e-15	2.25147e-14	9.13660e-14
0.000100000	1.63171e-16	1.06165e-15	5.71436e-15	2.61793e-14	1.04464e-13
1.00000e-05	1.67063e-16	1.08464e-15	5.82532e-15	2.66310e-14	1.06054e-13
1.00000e-06	1.67462e-16	1.08699e-15	5.83668e-15	2.66772e-14	1.06216e-13
1.00000e-07	1.67502e-16	1.08723e-15	5.83782e-15	2.66818e-14	1.06232e-13
1.00000e-08	1.67506e-16	1.08725e-15	5.83794e-15	2.66823e-14	1.06234e-13
1.00000e-09	1.67506e-16	1.08726e-15	5.83795e-15	2.66824e-14	1.06234e-13

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	3.40619e-26	1.59485e-25	6.87031e-25	2.74802e-24	1.02848e-23
1.00000e+07	3.34712e-23	1.56334e-22	6.71548e-22	2.67741e-21	9.98366e-21
1.00000e+06	2.84952e-20	1.30387e-19	5.47340e-19	2.12692e-18	7.70902e-18
100000.	1.05718e-17	4.46346e-17	1.72152e-16	6.12303e-16	2.02444e-15
10000.0	6.28927e-16	2.39809e-15	8.34573e-15	2.67742e-14	7.98500e-14
1000.00	6.87107e-15	2.42219e-14	7.77927e-14	2.29981e-13	6.31353e-13
100.000	1.98036e-14	6.52134e-14	1.95892e-13	5.42623e-13	1.39890e-12
10.0000	2.48125e-14	8.02561e-14	2.37266e-13	6.48238e-13	1.65211e-12
1.00000	2.84497e-14	9.37120e-14	2.83285e-13	7.94940e-13	2.09092e-12
0.100000	5.45411e-14	1.91000e-13	6.13632e-13	1.82606e-12	5.07285e-12
0.0100000	1.76627e-13	6.04633e-13	1.88322e-12	5.39318e-12	1.43291e-11
0.00100000	3.28670e-13	1.06445e-12	3.14422e-12	8.56371e-12	2.17065e-11
0.000100000	3.69979e-13	1.18130e-12	3.44469e-12	9.27401e-12	2.32651e-11
1.00000e-05	3.74920e-13	1.19508e-12	3.47963e-12	9.35553e-12	2.34418e-11
1.00000e-06	3.75424e-13	1.19648e-12	3.48318e-12	9.36381e-12	2.34597e-11
1.00000e-07	3.75474e-13	1.19662e-12	3.48353e-12	9.36464e-12	2.34615e-11
1.00000e-08	3.75479e-13	1.19664e-12	3.48357e-12	9.36472e-12	2.34617e-11
1.00000e-09	3.75480e-13	1.19664e-12	3.48357e-12	9.36473e-12	2.34617e-11

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	3.62489e-23	1.20951e-22	3.83705e-22	1.66631e-18	3.36098e-21
1.00000e+07	3.50417e-20	1.16381e-19	3.67310e-19	1.17221e-15	3.18003e-18
1.00000e+06	2.62278e-17	8.42053e-17	2.56243e-16	2.21517e-13	2.04890e-15

100000.	6.26453e-15	1.82494e-14	5.02992e-14	4.30058e-12	3.29045e-13
10000.0	2.22970e-13	5.86527e-13	1.46111e-12	1.42701e-11	7.83694e-12
1000.00	1.62156e-12	3.92173e-12	8.98139e-12	1.89917e-11	4.07657e-11
100.000	3.38296e-12	7.72620e-12	1.67621e-11	1.71909e-11	6.89692e-11
10.0000	3.95942e-12	8.98488e-12	1.94217e-11	2.68537e-11	8.00483e-11
1.00000	5.19750e-12	1.22945e-11	2.78347e-11	9.00066e-11	1.27369e-10
0.100000	1.32409e-11	3.26476e-11	7.63924e-11	2.40745e-10	3.63016e-10
0.0100000	3.55934e-11	8.32159e-11	1.84188e-10	2.91828e-10	7.81007e-10
0.00100000	5.16088e-11	1.15878e-10	2.47150e-10	2.60246e-10	9.82657e-10
0.000100000	5.48093e-11	1.22072e-10	2.58513e-10	2.53212e-10	1.01593e-09
1.00000e-05	5.51681e-11	1.22759e-10	2.59762e-10	2.52508e-10	1.01952e-09
1.00000e-06	5.52044e-11	1.22828e-10	2.59888e-10	2.52438e-10	1.01988e-09
1.00000e-07	5.52081e-11	1.22835e-10	2.59900e-10	2.52431e-10	1.01992e-09
1.00000e-08	5.52084e-11	1.22836e-10	2.59902e-10	2.52430e-10	1.01992e-09
1.00000e-09	5.52085e-11	1.22836e-10	2.59902e-10	2.52430e-10	1.01992e-09

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	6.17278e-15	1.71591e-10	6.03185e-08	1.46526e-05	0.000459396
1.00000e+07	6.73780e-12	1.44203e-07	8.26733e-06	8.37511e-05	0.000634565
1.00000e+06	1.14017e-09	4.66988e-06	0.000128953	0.000454486	0.000929727
100000.	1.09265e-08	8.99676e-06	0.000186499	0.000636259	0.00108801
10000.0	8.69496e-09	2.86400e-06	7.77627e-05	0.000405868	0.000886407
1000.00	4.94741e-09	6.33441e-07	2.71602e-05	0.000218512	0.000635883
100.000	5.31172e-09	3.86871e-07	1.29643e-05	0.000123158	0.000491152
10.0000	1.12318e-08	7.84454e-07	1.54749e-05	0.000119976	0.000501422
1.00000	3.23152e-08	1.57714e-06	2.13188e-05	0.000133468	0.000519910
0.100000	5.70059e-08	2.02423e-06	2.32648e-05	0.000136738	0.000523093
0.0100000	6.42284e-08	2.10831e-06	2.35300e-05	0.000137109	0.000523414
0.00100000	6.45633e-08	2.11594e-06	2.35550e-05	0.000137144	0.000523445
0.000100000	6.45513e-08	2.11660e-06	2.35574e-05	0.000137148	0.000523448
1.00000e-05	6.45494e-08	2.11667e-06	2.35576e-05	0.000137148	0.000523448
1.00000e-06	6.45492e-08	2.11667e-06	2.35577e-05	0.000137148	0.000523449
1.00000e-07	6.45492e-08	2.11667e-06	2.35577e-05	0.000137148	0.000523449
1.00000e-08	6.45492e-08	2.11667e-06	2.35577e-05	0.000137148	0.000523449
1.00000e-09	6.45492e-08	2.11667e-06	2.35577e-05	0.000137148	0.000523449

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.00239367	0.00504817	0.00733509	0.00809329	0.00728643
1.00000e+07	0.00292807	0.00870805	0.0179871	0.0264169	0.0311148
1.00000e+06	0.00222223	0.00648982	0.0155831	0.0254243	0.0329468
100000.	0.00176512	0.00365958	0.00807464	0.0149300	0.0232776
10000.0	0.00152541	0.00300081	0.00646705	0.0125070	0.0203239
1000.00	0.00140907	0.00320039	0.00670415	0.0120577	0.0188551
100.000	0.00141148	0.00336400	0.00672635	0.0116316	0.0179758
10.0000	0.00147041	0.00341622	0.00668455	0.0114605	0.0177007
1.00000	0.00148779	0.00342119	0.00666992	0.0114267	0.0176529
0.100000	0.00148975	0.00342119	0.00666769	0.0114225	0.0176472
0.0100000	0.00148993	0.00342117	0.00666745	0.0114221	0.0176466
0.00100000	0.00148995	0.00342117	0.00666743	0.0114220	0.0176466
0.000100000	0.00148995	0.00342117	0.00666742	0.0114220	0.0176466
1.00000e-05	0.00148995	0.00342117	0.00666742	0.0114220	0.0176466
1.00000e-06	0.00148995	0.00342117	0.00666742	0.0114220	0.0176466
1.00000e-07	0.00148995	0.00342117	0.00666742	0.0114220	0.0176466
1.00000e-08	0.00148995	0.00342117	0.00666742	0.0114220	0.0176466
1.00000e-09	0.00148995	0.00342117	0.00666742	0.0114220	0.0176466

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00610721	0.00532375	0.0897954	0.0889295	0.0879099
1.00000e+07	0.0328835	0.0330394	0.0816064	0.0830512	0.0864434
1.00000e+06	0.0384667	0.0427383	0.0681939	0.0819093	0.0903348
100000.	0.0316884	0.0395106	0.0652042	0.0821829	0.0903193
10000.0	0.0286981	0.0370614	0.0625425	0.0788630	0.0882320
1000.00	0.0265949	0.0348563	0.0600109	0.0765612	0.0872652
100.000	0.0254680	0.0336879	0.0588643	0.0758377	0.0870457
10.0000	0.0251380	0.0333494	0.0585700	0.0757009	0.0870130
1.00000	0.0250825	0.0332930	0.0585234	0.0756829	0.0870092
0.100000	0.0250761	0.0332865	0.0585181	0.0756810	0.0870089
0.0100000	0.0250755	0.0332859	0.0585176	0.0756808	0.0870088
0.00100000	0.0250754	0.0332858	0.0585175	0.0756807	0.0870088
0.000100000	0.0250754	0.0332858	0.0585175	0.0756807	0.0870088
1.00000e-05	0.0250754	0.0332858	0.0585175	0.0756807	0.0870088
1.00000e-06	0.0250754	0.0332858	0.0585175	0.0756807	0.0870088
1.00000e-07	0.0250754	0.0332858	0.0585175	0.0756807	0.0870088
1.00000e-08	0.0250754	0.0332858	0.0585175	0.0756807	0.0870088
1.00000e-09	0.0250754	0.0332858	0.0585175	0.0756807	0.0870088

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
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1.00000e+08	0.0875443	0.0882624	0.0900366	0.0925112	0.0952722
1.00000e+07	0.0902905	0.0937074	0.0964782	0.0987526	0.100717
1.00000e+06	0.0946699	0.0972354	0.0990751	0.100616	0.102039
100000.	0.0946897	0.0974859	0.0994242	0.100937	0.102283
10000.0	0.0939024	0.0972987	0.0994253	0.100975	0.102317
1000.00	0.0936347	0.0972437	0.0994207	0.100979	0.102321
100.000	0.0935876	0.0972356	0.0994202	0.100980	0.102322
10.0000	0.0935817	0.0972348	0.0994201	0.100980	0.102322
1.00000	0.0935811	0.0972347	0.0994201	0.100980	0.102322
0.100000	0.0935810	0.0972347	0.0994201	0.100980	0.102322
0.0100000	0.0935810	0.0972347	0.0994201	0.100980	0.102322
0.00100000	0.0935810	0.0972347	0.0994201	0.100980	0.102322
0.000100000	0.0935810	0.0972347	0.0994201	0.100980	0.102322
1.00000e-05	0.0935810	0.0972347	0.0994201	0.100980	0.102322
1.00000e-06	0.0935810	0.0972347	0.0994201	0.100980	0.102322
1.00000e-07	0.0935810	0.0972347	0.0994201	0.100980	0.102322
1.00000e-08	0.0935810	0.0972347	0.0994201	0.100980	0.102322
1.00000e-09	0.0935810	0.0972347	0.0994201	0.100980	0.102322

Pa\K | 3750.00 4000.00

1.00000e+08	0.0980254	0.100620
1.00000e+07	0.102498	0.104162
1.00000e+06	0.103423	0.104800
100000.	0.103591	0.104909
10000.0	0.103614	0.104924
1000.00	0.103617	0.104925
100.000	0.103617	0.104926
10.0000	0.103617	0.104926
1.00000	0.103617	0.104926
0.100000	0.103617	0.104926
0.0100000	0.103617	0.104926
0.00100000	0.103617	0.104926
0.000100000	0.103617	0.104926
1.00000e-05	0.103617	0.104926
1.00000e-06	0.103617	0.104926
1.00000e-07	0.103617	0.104926
1.00000e-08	0.103617	0.104926
1.00000e-09	0.103617	0.104926

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08	3.38759e-21	2.81496e-20	9.51322e-20	2.27833e-19	4.55620e-19
1.00000e+07	3.40139e-18	2.84665e-17	9.69338e-17	2.33933e-16	4.71451e-16
1.00000e+06	3.65210e-15	3.26664e-14	1.17581e-13	2.97717e-13	6.26090e-13
100000.	5.60670e-12	5.73555e-11	2.15758e-10	5.51392e-10	1.15131e-09
10000.0	9.27875e-09	7.79688e-08	2.56751e-07	5.93965e-07	1.14296e-06
1000.00	7.09304e-06	4.24151e-05	0.000109413	0.000207265	0.000335405
100.000	0.00119716	0.00371050	0.00646158	0.00923520	0.0119852
10.0000	0.0229571	0.0390938	0.0498424	0.0579065	0.0643951
1.00000	0.0811500	0.0934390	0.0954997	0.0944543	0.0922223
0.100000	0.0773913	0.0540478	0.0389254	0.0286812	0.0214933
0.0100000	0.00647300	0.00110928	0.000322593	0.000123728	5.63028e-05
0.00100000	4.12141e-06	2.59341e-07	5.36097e-08	1.77617e-08	7.57489e-09
0.000100000	5.60392e-10	4.49035e-11	1.12627e-11	4.33763e-12	2.09189e-12
1.00000e-05	2.32530e-13	2.80552e-14	8.83631e-15	3.98539e-15	2.17066e-15
1.00000e-06	3.52482e-16	6.09425e-17	2.33478e-17	1.20494e-17	7.27734e-18
1.00000e-07	1.63823e-18	3.87975e-19	1.77345e-19	1.03654e-19	6.89816e-20
1.00000e-08	2.17436e-20	7.28670e-21	4.07784e-21	2.74506e-21	2.03591e-21
1.00000e-09	9.24342e-22	4.17004e-22	2.67024e-22	1.94643e-22	1.51968e-22

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08	8.17339e-19	1.36659e-18	2.17953e-18	3.36667e-18	5.09109e-18
1.00000e+07	8.52423e-16	1.43685e-15	2.31102e-15	3.60176e-15	5.49876e-15
1.00000e+06	1.17642e-12	2.05428e-12	3.41447e-12	5.48843e-12	8.62774e-12
100000.	2.12917e-09	3.64022e-09	5.90318e-09	9.23267e-09	1.40879e-08
10000.0	1.96753e-06	3.14814e-06	4.78948e-06	7.02983e-06	1.00531e-05
1000.00	0.000494112	0.000684659	0.000909319	0.00117136	0.00147506
100.000	0.0147096	0.0174215	0.0201383	0.0228787	0.0256609
10.0000	0.0698428	0.0745409	0.0786613	0.0823116	0.0855611
1.00000	0.0894670	0.0864498	0.0832809	0.0800075	0.0766495
0.100000	0.0163168	0.0125121	0.00967022	0.00751976	0.00587547
0.0100000	2.87736e-05	1.59865e-05	9.45688e-06	5.87236e-06	3.78949e-06
0.00100000	3.77885e-09	2.09658e-09	1.25565e-09	7.96451e-10	5.28238e-10
0.000100000	1.15855e-12	7.04508e-13	4.58224e-13	3.13583e-13	2.23370e-13
1.00000e-05	1.32838e-15	8.79970e-16	6.17516e-16	4.52975e-16	3.44409e-16

1.00000e-06	4.84670e-18	3.45204e-18	2.58360e-18	2.01044e-18	1.61628e-18
1.00000e-07	4.97897e-20	3.80106e-20	3.02624e-20	2.49208e-20	2.11307e-20
1.00000e-08	1.60223e-21	1.31476e-21	1.11365e-21	9.68273e-22	8.61320e-22
1.00000e-09	1.24361e-22	1.04673e-22	9.07245e-23	8.01536e-23	7.26023e-23

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	7.59670e-18	1.12524e-17	1.66216e-17	2.45715e-17	3.64461e-17
1.00000e+07	8.29002e-15	1.24183e-14	1.85720e-14	2.78316e-14	4.19076e-14
1.00000e+06	1.33735e-11	2.05675e-11	3.15293e-11	4.83416e-11	7.43063e-11
100000.	2.11463e-08	3.14138e-08	4.63909e-08	6.83206e-08	1.00556e-07
10000.0	1.41044e-05	1.95095e-05	2.66996e-05	3.62415e-05	4.88746e-05
1000.00	0.00182572	0.00222972	0.00269455	0.00322881	0.00384231
100.000	0.0285021	0.0314180	0.0344224	0.0375270	0.0407405
10.0000	0.0884560	0.0910266	0.0932925	0.0952656	0.0969522
1.00000	0.0732149	0.0697080	0.0661333	0.0624982	0.0588137
0.100000	0.00460768	0.00362363	0.00285576	0.00225408	0.00178113
0.0100000	2.52264e-06	1.72279e-06	1.20192e-06	8.53827e-07	6.16037e-07
0.00100000	3.63084e-10	2.56998e-10	1.86471e-10	1.38242e-10	1.04484e-10
0.000100000	1.64418e-13	1.24460e-13	9.65927e-14	7.67333e-14	6.23701e-14
1.00000e-05	2.69996e-16	2.17578e-16	1.80019e-16	1.52968e-16	1.33714e-16
1.00000e-06	1.33775e-18	1.13845e-18	9.96599e-19	8.99216e-19	8.38993e-19
1.00000e-07	1.84150e-20	1.64911e-20	1.52072e-20	1.44850e-20	1.43099e-20
1.00000e-08	7.84633e-22	7.32896e-22	7.03089e-22	6.96430e-22	7.15238e-22
1.00000e-09	6.68847e-23	6.36158e-23	6.14932e-23	6.16204e-23	6.34887e-23

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	5.43420e-17	8.15462e-17	1.23236e-16	1.87594e-16	2.87595e-16
1.00000e+07	6.35289e-14	9.70779e-14	1.49632e-13	2.32677e-13	3.64912e-13
1.00000e+06	1.14676e-10	1.77820e-10	2.77093e-10	4.33784e-10	6.81799e-10
100000.	1.48102e-07	2.18408e-07	3.22509e-07	4.76665e-07	7.04663e-07
10000.0	6.55552e-05	8.75089e-05	0.000116291	0.000153858	0.000202642
1000.00	0.00454603	0.00535212	0.00627392	0.00732583	0.00852320
100.000	0.0440685	0.0475129	0.0510716	0.0547380	0.0585012
10.0000	0.0983541	0.0994700	0.100296	0.100825	0.101050
1.00000	0.0550956	0.0513639	0.0476425	0.0439578	0.0403382
0.100000	0.00140846	0.00111431	0.000881841	0.000697991	0.00052530
0.0100000	4.50538e-07	3.33499e-07	2.49583e-07	1.88699e-07	1.44071e-07
0.00100000	8.04015e-11	6.29564e-11	5.01722e-11	4.07326e-11	3.37451e-11
0.000100000	5.19081e-14	4.43132e-14	3.89096e-14	3.52632e-14	3.31155e-14
1.00000e-05	1.20580e-16	1.12594e-16	1.09323e-16	1.10819e-16	1.17654e-16
1.00000e-06	8.12871e-19	8.21469e-19	8.69411e-19	9.66448e-19	1.12968e-18
1.00000e-07	1.47380e-20	1.58865e-20	1.79911e-20	2.14320e-20	2.68504e-20
1.00000e-08	7.65101e-22	8.57256e-22	1.00669e-21	1.24353e-21	1.61421e-21
1.00000e-09	6.84715e-23	7.72433e-23	9.14733e-23	1.13777e-22	1.48069e-22

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	4.43854e-16	6.89171e-16	1.07578e-15	1.68692e-15	2.65511e-15
1.00000e+07	5.76875e-13	9.18502e-13	1.47152e-12	2.36968e-12	3.83163e-12
1.00000e+06	1.07501e-09	1.69877e-09	2.68775e-09	4.25360e-09	6.72726e-09
100000.	1.04103e-06	1.53549e-06	2.25894e-06	3.31159e-06	4.83375e-06
10000.0	0.000265642	0.000346522	0.000449710	0.000580523	0.000745286
1000.00	0.00988217	0.0114193	0.0131513	0.0150944	0.0172638
100.000	0.0623455	0.0662504	0.0701914	0.0741396	0.0780629
10.0000	0.100962	0.100552	0.0998116	0.0987343	0.0973156
1.00000	0.0368119	0.0334064	0.0301463	0.0270534	0.0241449
0.100000	0.000437427	0.000346353	0.000274309	0.000217337	0.000172302
0.0100000	1.11071e-07	8.64863e-08	6.80583e-08	5.41799e-08	4.36957e-08
0.00100000	2.85969e-11	2.48657e-11	2.22631e-11	2.05999e-11	1.97645e-11
0.000100000	3.23484e-14	3.29736e-14	3.51412e-14	3.91716e-14	4.56171e-14
1.00000e-05	1.31050e-16	1.53159e-16	1.87527e-16	2.39916e-16	3.19675e-16
1.00000e-06	1.38770e-18	1.78778e-18	2.40830e-18	3.38118e-18	4.93082e-18
1.00000e-07	3.53037e-20	4.85979e-20	6.97839e-20	1.04205e-19	1.61320e-19
1.00000e-08	2.19042e-21	3.10912e-21	4.59101e-21	7.06023e-21	1.12030e-20
1.00000e-09	2.01607e-22	2.87231e-22	4.34668e-22	6.69043e-22	1.06348e-21

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	4.19136e-15	6.63124e-15	1.05079e-14	2.86013e-13	2.64512e-14
1.00000e+07	6.21439e-12	1.00997e-11	1.64335e-11	5.25313e-10	4.35339e-11
1.00000e+06	1.06236e-08	1.67392e-08	2.63001e-08	4.85047e-07	6.42489e-08
100000.	7.02009e-06	1.01383e-05	1.45536e-05	0.000108000	2.94257e-05
10000.0	0.000951482	0.00120790	0.00152481	0.00433025	0.00238981
1000.00	0.0196732	0.0223335	0.0252524	0.0362707	0.0318758
100.000	0.0819263	0.0856926	0.0893231	0.0918051	0.0960199
10.0000	0.0955546	0.0934549	0.0910253	0.0762118	0.0852406
1.00000	0.0214338	0.0189283	0.0166320	0.0122968	0.0126611
0.100000	0.000136719	0.000108615	8.64289e-05	0.000138016	5.51096e-05

0.0100000	3.57689e-08	2.97891e-08	2.53102e-08	3.04400e-07	1.96398e-08
0.00100000	1.97121e-11	2.04616e-11	2.20998e-11	1.58919e-09	2.88139e-11
0.000100000	5.53650e-14	6.98062e-14	9.11044e-14	2.30925e-11	1.69600e-13
1.00000e-05	4.42091e-16	6.32373e-16	9.32492e-16	6.07532e-13	2.19262e-15
1.00000e-06	7.44540e-18	1.16046e-17	1.86129e-17	2.47750e-14	5.15187e-17
1.00000e-07	2.58078e-19	4.25555e-19	7.21069e-19	1.58861e-15	2.21783e-18
1.00000e-08	1.83335e-20	3.09474e-20	5.35406e-20	1.44658e-16	1.71601e-19
1.00000e-09	1.75053e-21	2.94637e-21	5.10002e-21	1.64042e-17	1.63798e-20

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	8.72991e-11	1.16422e-07	1.10508e-05	0.000235964	0.00131253
1.00000e+07	1.52918e-07	3.41175e-05	0.000559768	0.00309859	0.00770474
1.00000e+06	5.31400e-05	0.00160658	0.00506317	0.00989860	0.0168867
100000.	0.00273835	0.0155566	0.0219705	0.0260863	0.0310235
10000.0	0.0248232	0.0509751	0.0536809	0.0451631	0.0335299
1000.00	0.0754926	0.0879319	0.0620863	0.0321021	0.0151692
100.000	0.0974694	0.0654203	0.0299914	0.0107423	0.00375117
10.0000	0.0408060	0.0156411	0.00527891	0.00160085	0.000495370
1.00000	0.00306877	0.000863179	0.000350732	0.000134026	4.70482e-05
0.100000	3.14528e-05	2.32116e-05	2.09369e-05	1.11093e-05	4.43815e-06
0.0100000	3.74539e-07	1.03545e-06	1.47875e-06	9.37410e-07	4.04675e-07
0.00100000	1.08122e-08	5.93393e-08	1.10236e-07	7.82266e-08	3.56277e-08
0.000100000	4.48217e-10	3.85734e-09	8.49998e-09	6.48327e-09	3.05918e-09
1.00000e-05	2.33456e-11	2.68334e-10	6.44575e-10	5.05656e-10	2.41600e-10
1.00000e-06	1.47323e-12	1.99882e-11	4.98433e-11	3.94934e-11	1.89369e-11
1.00000e-07	1.18290e-13	1.73565e-12	4.41189e-12	3.51780e-12	1.68944e-12
1.00000e-08	1.09982e-14	1.68294e-13	4.33406e-13	3.41969e-13	1.65490e-13
1.00000e-09	1.18242e-15	1.85585e-14	4.42333e-14	3.35098e-14	1.73838e-14

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.00267939	0.00350980	0.00406665	0.00406960	0.00368784
1.00000e+07	0.0112034	0.0124105	0.0130554	0.0131921	0.0125711
1.00000e+06	0.0216901	0.0222292	0.0206841	0.0180516	0.0150975
100000.	0.0308566	0.0256583	0.0190008	0.0132644	0.00958232
10000.0	0.0221002	0.0135427	0.00823301	0.00531440	0.00389505
1000.00	0.00732243	0.00387279	0.00226428	0.00145790	0.00105015
100.000	0.00149959	0.000725238	0.000398724	0.000240853	0.000161141
10.0000	0.000184784	8.74911e-05	4.74668e-05	2.81265e-05	1.81817e-05
1.00000	1.88137e-05	9.24575e-06	5.08913e-06	3.01279e-06	1.91269e-06
0.100000	1.86705e-06	9.34206e-07	5.17301e-07	3.05943e-07	1.92082e-07
0.0100000	1.75713e-07	8.90469e-08	4.96277e-08	2.94099e-08	1.83607e-08
0.00100000	1.58574e-08	8.13699e-09	4.57089e-09	2.71818e-09	1.69091e-09
0.000100000	1.38413e-09	7.15986e-10	4.03850e-10	2.40125e-10	1.48512e-10
1.00000e-05	1.09780e-10	5.68458e-11	3.20484e-11	1.90131e-11	1.17061e-11
1.00000e-06	8.62756e-12	4.47217e-12	2.52077e-12	1.49339e-12	9.17216e-13
1.00000e-07	7.70906e-13	3.99942e-13	2.25448e-13	1.33404e-13	8.17800e-14
1.00000e-08	7.54299e-14	3.91850e-14	2.21643e-14	1.31058e-14	8.02314e-15
1.00000e-09	7.65640e-15	3.89701e-15	2.20318e-15	1.29395e-15	7.93177e-16

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00340879	0.00367865	0.000658540	0.00113917	0.00157336
1.00000e+07	0.0121882	0.0134055	0.00250360	0.00274927	0.00237586
1.00000e+06	0.0133524	0.0136558	0.00659181	0.00528935	0.00302863
100000.	0.00797783	0.00797075	0.00653166	0.00428530	0.00178689
10000.0	0.00337583	0.00340088	0.00274869	0.00134985	0.000410195
1000.00	0.000860897	0.000789635	0.000482548	0.000192210	4.99034e-05
100.000	0.000120784	0.000100207	4.95612e-05	1.94250e-05	4.96222e-06
10.0000	1.28874e-05	9.96556e-06	4.32753e-06	1.82256e-06	4.77432e-07
1.00000	1.30493e-06	9.55830e-07	3.75209e-07	1.70573e-07	4.59414e-08
0.100000	1.27825e-07	9.01153e-08	3.31277e-08	1.60829e-08	4.43906e-09
0.0100000	1.20245e-08	8.25769e-09	2.96986e-09	1.52746e-09	4.30648e-10
0.00100000	1.09415e-09	7.36993e-10	2.69258e-10	1.45984e-10	4.19246e-11
0.000100000	9.49982e-11	6.30312e-11	2.41997e-11	1.39377e-11	4.07618e-12
1.00000e-05	7.43997e-12	4.90964e-12	2.20311e-12	1.34160e-12	3.98380e-13
1.00000e-06	5.81253e-13	3.83626e-13	2.03062e-13	1.29947e-13	3.90837e-14
1.00000e-07	5.17839e-14	3.42060e-14	1.94499e-14	1.27930e-14	3.87365e-15
1.00000e-08	5.06585e-15	3.35180e-15	1.93195e-15	1.27617e-15	3.86861e-16
1.00000e-09	1.28701e-18	7.36670e-18	1.69241e-16	1.21994e-16	3.75240e-17

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00183139	0.00188659	0.00180409	0.00163784	0.00143196
1.00000e+07	0.00210381	0.00174225	0.00134616	0.000993799	0.000715936
1.00000e+06	0.00186809	0.00115786	0.000699824	0.000415755	0.000245803
100000.	0.000796356	0.000371782	0.000176208	8.51454e-05	4.23512e-05
10000.0	0.000139816	5.37189e-05	2.22118e-05	9.76606e-06	4.55167e-06
1000.00	1.53184e-05	5.54044e-06	2.21265e-06	9.52610e-07	4.37780e-07

100.000	1.49840e-06	5.36142e-07	2.12510e-07	9.09271e-08	4.15382e-08
10.0000	1.44592e-07	5.16101e-08	2.03760e-08	8.67856e-09	3.94489e-09
1.00000	1.39844e-08	4.98439e-09	1.96104e-09	8.31692e-10	3.76297e-10
0.100000	1.35766e-09	4.83260e-10	1.89500e-10	8.00396e-11	3.60525e-11
0.0100000	1.32263e-10	4.70163e-11	1.83777e-11	7.73165e-12	3.46766e-12
0.00100000	1.29218e-11	4.58678e-12	1.78715e-12	7.48921e-13	3.34459e-13
0.000100000	1.26044e-12	4.46564e-13	1.73336e-13	7.23055e-14	3.21319e-14
1.00000e-05	1.23532e-13	4.37028e-14	1.69127e-14	7.02933e-15	3.11158e-15
1.00000e-06	1.21470e-14	4.29167e-15	1.65643e-15	6.86235e-16	3.02709e-16
1.00000e-07	1.20559e-15	4.25828e-16	1.64216e-16	6.79623e-17	2.99472e-17
1.00000e-08	1.20433e-16	4.25346e-17	1.63999e-17	6.78574e-18	2.98956e-18
1.00000e-09	1.17222e-17	4.13076e-18	1.58549e-18	6.52352e-19	2.85612e-19

Pa\K | 3750.00 4000.00

1.00000e+08	0.00121950	0.00102099
1.00000e+07	0.000510536	0.000363659
1.00000e+06	0.000146074	8.79252e-05
100000.	2.18335e-05	1.17132e-05
10000.0	2.24301e-06	1.16551e-06
1000.00	2.13373e-07	1.09728e-07
100.000	2.01149e-08	1.02654e-08
10.0000	1.89999e-09	9.63885e-10
1.00000	1.80350e-10	9.10230e-11
0.100000	1.71986e-11	8.63836e-12
0.0100000	1.64680e-12	8.23303e-13
0.00100000	1.58130e-13	7.86969e-14
0.000100000	1.51150e-14	7.48425e-15
1.00000e-05	1.45784e-15	7.18960e-16
1.00000e-06	1.41318e-16	6.94429e-17
1.00000e-07	1.39649e-17	6.85494e-18
1.00000e-08	1.39434e-18	6.84269e-19
1.00000e-09	1.32296e-19	6.44931e-20

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08	8.69426e-17	6.85944e-16	2.25600e-15	5.32645e-15	1.05728e-14
1.00000e+07	7.92036e-14	6.70759e-13	2.28543e-12	5.49161e-12	1.09898e-11
1.00000e+06	8.18467e-11	6.61967e-10	2.16436e-09	5.00636e-09	9.66076e-09
100000.	6.09627e-08	3.75781e-07	9.96836e-07	1.94618e-06	3.25736e-06
10000.0	1.28463e-05	5.14243e-05	0.000111338	0.000191650	0.000292645
1000.00	0.000888226	0.00255852	0.00433744	0.00608952	0.00778184
100.000	0.0131518	0.0186506	0.0204791	0.0209246	0.0207571
10.0000	0.0161474	0.00998038	0.00695647	0.00542473	0.00461815
1.00000	0.00341719	0.00321735	0.00301626	0.00281498	0.00263150
0.100000	0.00188210	0.00114274	0.000764066	0.000535817	0.000387144
0.0100000	0.000102123	1.56179e-05	4.27838e-06	1.57745e-06	6.97357e-07
0.00100000	4.59594e-08	2.64742e-09	5.22786e-10	1.68101e-10	7.01472e-11
0.000100000	4.79315e-12	3.59557e-13	8.71541e-14	3.28246e-14	1.55763e-14
1.00000e-05	1.63379e-15	1.88673e-16	5.82750e-17	2.59912e-17	1.40531e-17
1.00000e-06	2.23367e-18	3.82257e-19	1.45960e-19	7.52271e-20	4.54289e-20
1.00000e-07	1.01731e-20	2.42728e-21	1.11119e-21	6.59608e-22	4.43083e-22
1.00000e-08	1.38036e-22	4.51823e-23	2.61368e-23	1.68913e-23	1.43141e-23
1.00000e-09	5.64815e-24	1.93545e-24	1.80749e-24	1.66695e-24	4.80047e-25

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08	1.88925e-14	3.15191e-14	5.01919e-14	7.74108e-14	1.16823e-13
1.00000e+07	1.96940e-11	3.28480e-11	5.21930e-11	8.02149e-11	1.20514e-10
1.00000e+06	1.67076e-08	2.68988e-08	4.12411e-08	6.11082e-08	8.83952e-08
100000.	4.98287e-06	7.19962e-06	1.00151e-05	1.35761e-05	1.80801e-05
10000.0	0.000415477	0.000562149	0.000735513	0.000939288	0.00117809
1000.00	0.00940987	0.0109784	0.0124948	0.0139657	0.0153966
100.000	0.0202914	0.0196735	0.0189770	0.0182413	0.0174885
10.0000	0.00418529	0.00395412	0.00383532	0.00378021	0.00376118
1.00000	0.00246646	0.00231680	0.00217929	0.00205118	0.00193031
0.100000	0.000285616	0.000213975	0.000162181	0.000124032	9.55231e-05
0.0100000	3.48450e-07	1.90102e-07	1.10763e-07	6.79016e-08	4.33359e-08
0.00100000	3.44102e-11	1.88349e-11	1.11549e-11	7.00920e-12	4.61159e-12
0.000100000	8.52015e-15	5.12993e-15	3.30964e-15	2.24983e-15	1.59357e-15
1.00000e-05	8.55694e-18	5.64911e-18	3.95398e-18	2.89541e-18	2.19968e-18
1.00000e-06	3.02864e-20	2.16265e-20	1.62212e-20	1.26592e-20	1.02440e-20
1.00000e-07	3.19592e-22	2.46404e-22	1.98534e-22	1.71152e-22	1.46594e-22
1.00000e-08	1.22745e-23	8.28764e-24	7.31670e-24	6.81762e-24	5.84422e-24
1.00000e-09	5.56198e-25	1.10122e-24	1.84988e-25	1.87987e-25	4.13513e-25

Pa\K | 120.000 130.000 140.000 150.000 160.000

1.00000e+08	1.73815e-13	2.56406e-13	3.76630e-13	5.52626e-13	8.11859e-13
1.00000e+07	1.78358e-10	2.61518e-10	3.81518e-10	5.55513e-10	8.09096e-10
1.00000e+06	1.25734e-07	1.76789e-07	2.46668e-07	3.42484e-07	4.74122e-07
100000.	2.37912e-05	3.10607e-05	4.03527e-05	5.22776e-05	6.76327e-05
10000.0	0.00145748	0.00178396	0.00216493	0.00260866	0.00312414
1000.00	0.0167911	0.0181507	0.0194752	0.0207624	0.0220083
100.000	0.0167320	0.0159805	0.0152403	0.0145165	0.0138139
10.0000	0.00376198	0.00377276	0.00378734	0.00380179	0.00381349
1.00000	0.00181501	0.00170405	0.00159652	0.00149184	0.00138966
0.100000	7.39705e-05	5.75268e-05	4.48888e-05	3.51189e-05	2.75313e-05
0.0100000	2.85726e-08	1.93498e-08	1.34002e-08	9.45750e-09	6.78454e-09
0.00100000	3.14792e-12	2.21484e-12	1.59869e-12	1.17986e-12	8.88274e-13
0.000100000	1.16741e-15	8.80185e-16	6.80839e-16	5.39364e-16	4.37450e-16
1.00000e-05	1.72346e-18	1.38876e-18	1.15015e-18	9.78626e-19	8.57283e-19
1.00000e-06	8.51311e-21	7.32344e-21	6.48733e-21	5.95690e-21	5.69350e-21
1.00000e-07	1.33663e-22	1.24396e-22	1.20731e-22	1.25483e-22	1.34126e-22
1.00000e-08	6.84619e-24	6.20424e-24	7.57168e-24	7.95334e-24	1.00867e-23
1.00000e-09	1.29754e-24	3.72988e-25	1.85927e-25	2.21843e-24	6.32711e-25

Pa\K | 170.000 180.000 190.000 200.000 210.000

1.00000e+08	1.19602e-12	1.76854e-12	2.62599e-12	3.91543e-12	5.86073e-12
1.00000e+07	1.18049e-09	1.72679e-09	2.53314e-09	3.72631e-09	5.49442e-09
1.00000e+06	6.55280e-07	9.04877e-07	1.24894e-06	1.72312e-06	2.37600e-06
100000.	8.74517e-05	0.000113065	0.000146165	0.000188891	0.000243907
10000.0	0.00372089	0.00440868	0.00519723	0.00609583	0.00711286
1000.00	0.0232077	0.0243539	0.0254390	0.0264547	0.0273918
100.000	0.0131371	0.0124906	0.0118787	0.0113056	0.0107746
10.0000	0.00382064	0.00382197	0.00381655	0.00380365	0.00378267
1.00000	0.00128986	0.00119251	0.00109780	0.00100603	0.000917579
0.100000	2.16173e-05	1.69947e-05	1.33739e-05	1.05332e-05	8.30199e-06
0.0100000	4.93692e-09	3.63837e-09	2.71252e-09	2.04419e-09	1.55653e-09
0.00100000	6.81257e-13	5.31943e-13	4.22942e-13	3.42740e-13	2.83565e-13
0.000100000	3.63456e-16	3.09937e-16	2.71980e-16	2.46510e-16	2.31666e-16
1.00000e-05	7.76132e-19	7.28245e-19	7.11746e-19	7.28096e-19	7.82309e-19
1.00000e-06	5.68789e-21	5.97025e-21	6.59114e-21	7.69842e-21	9.60361e-21
1.00000e-07	1.50789e-22	1.79995e-22	2.29246e-22	3.03522e-22	4.19035e-22
1.00000e-08	1.02912e-23	1.40726e-23	1.81941e-23	1.75319e-23	3.34107e-23
1.00000e-09	2.26973e-25	2.35787e-25	1.30059e-25	1.69285e-24	1.11104e-24

Pa\K | 220.000 230.000 240.000 250.000 260.000

1.00000e+08	8.80215e-12	1.32558e-11	2.00026e-11	3.02201e-11	4.56774e-11
1.00000e+07	8.11552e-09	1.19987e-08	1.77422e-08	2.62163e-08	3.86772e-08
1.00000e+06	3.27346e-06	4.50429e-06	6.18747e-06	8.48139e-06	1.15954e-05
100000.	0.000314493	0.000404637	0.000519118	0.000663573	0.000844552
10000.0	0.00825536	0.00952849	0.0109351	0.0124754	0.0141463
1000.00	0.0282409	0.0289928	0.0296384	0.0301696	0.0305791
100.000	0.0102887	0.00984974	0.00945874	0.00911558	0.00881911
10.0000	0.00375313	0.00371464	0.00366687	0.00360960	0.00354274
1.00000	0.000832836	0.000752191	0.000675993	0.000604534	0.000538026
0.100000	6.54804e-06	5.16850e-06	4.08306e-06	3.22882e-06	2.55646e-06
0.0100000	1.19741e-09	9.30867e-10	7.31737e-10	5.82224e-10	4.69599e-10
0.00100000	2.40101e-13	2.08707e-13	1.86914e-13	1.73109e-13	1.66371e-13
0.000100000	2.26675e-16	2.31676e-16	2.47882e-16	2.77874e-16	3.26121e-16
1.00000e-05	8.84227e-19	1.05319e-18	1.32125e-18	1.74132e-18	2.40626e-18
1.00000e-06	1.25214e-20	1.73508e-20	2.52028e-20	3.85397e-20	6.14810e-20
1.00000e-07	5.89714e-22	9.27004e-22	1.43583e-21	2.37180e-21	4.17271e-21
1.00000e-08	4.01527e-23	5.65886e-23	8.19646e-23	2.07184e-22	4.04520e-22
1.00000e-09	1.88114e-24	1.60010e-24	1.25301e-24	1.71875e-24	2.47093e-24

Pa\K | 270.000 280.000 290.000 300.000 310.000

1.00000e+08	6.90218e-11	1.04196e-10	1.57046e-10	2.31575e-09	3.54276e-10
1.00000e+07	5.69261e-08	8.35256e-08	1.22093e-07	1.20283e-06	2.57347e-07
1.00000e+06	1.58042e-05	2.14655e-05	2.90412e-05	0.000150522	5.24604e-05
100000.	0.00106954	0.00134693	0.00168599	0.00455474	0.00258971
10000.0	0.0159415	0.0178510	0.0198613	0.0261840	0.0241116
1000.00	0.0308614	0.0310126	0.0310312	0.0267764	0.0306769
100.000	0.00856720	0.00835688	0.00818445	0.00835685	0.00793601
10.0000	0.00346630	0.00338047	0.00328559	0.00311469	0.00307104
1.00000	0.000476599	0.000420292	0.000369061	0.000312203	0.000281273
0.100000	2.02720e-06	1.61057e-06	1.28258e-06	2.35470e-06	8.21097e-07
0.0100000	3.84685e-10	3.20827e-10	2.73188e-10	3.84427e-09	2.13540e-10
0.00100000	1.66371e-13	1.73362e-13	1.88258e-13	1.80560e-11	2.49838e-13
0.000100000	4.00009e-16	5.11540e-16	6.80399e-16	3.19218e-13	1.34214e-15
1.00000e-05	3.47825e-18	5.25639e-18	8.27348e-18	1.53114e-14	2.30303e-17
1.00000e-06	1.02670e-19	1.77805e-19	3.19056e-19	1.25718e-15	1.12949e-18
1.00000e-07	7.00564e-21	1.29745e-20	2.39750e-20	1.22579e-16	9.47801e-20
1.00000e-08	6.99907e-22	8.97723e-22	2.03256e-21	9.25850e-18	1.14924e-20

1.00000e-09 | 9.33853e-24 9.93743e-24 1.73458e-23 1.24754e-18 2.84521e-23

Pa\K | 400.000 500.000 600.000 700.000 800.000

1.00000e+08 | 1.10216e-07 4.16175e-06 0.000123884 0.00201644 0.00880007
1.00000e+07 | 2.92903e-05 0.000408804 0.00289697 0.0117481 0.0241000
1.00000e+06 | 0.00162611 0.00757926 0.0131892 0.0140827 0.0158763
100000. | 0.0178088 0.0280258 0.0211563 0.0100915 0.00633805
10000.0 | 0.0359673 0.0283862 0.0165479 0.00729588 0.00396134
1000.00 | 0.0203888 0.0158304 0.0103508 0.00477088 0.00239863
100.000 | 0.00791428 0.00686837 0.00415523 0.00171680 0.000737296
10.0000 | 0.00197312 0.00120518 0.000625144 0.000243951 9.83497e-05
1.00000 | 9.84960e-05 5.67453e-05 4.04202e-05 2.00480e-05 9.09408e-06
0.100000 | 8.24916e-07 1.78681e-06 2.48461e-06 1.62171e-06 8.28905e-07
0.0100000 | 1.18730e-08 9.40357e-08 1.83093e-07 1.40543e-07 7.77056e-08
0.00100000 | 4.57303e-10 6.43495e-09 1.49842e-08 1.27611e-08 7.44034e-09
0.000100000 | 2.64965e-11 5.08424e-10 1.31673e-09 1.19938e-09 7.23899e-10
1.00000e-05 | 2.14579e-12 4.64568e-11 1.25236e-10 1.17136e-10 7.16525e-11
1.00000e-06 | 2.04009e-13 4.54817e-12 1.23752e-11 1.16479e-11 7.14750e-12
1.00000e-07 | 2.01066e-14 4.51967e-13 1.23587e-12 1.16405e-12 7.14934e-13
1.00000e-08 | 1.78607e-15 4.24217e-14 1.24131e-13 1.15487e-13 7.14000e-14
1.00000e-09 | 5.39756e-17 5.28843e-15 1.37462e-14 1.12207e-14 7.83320e-15

Pa\K | 900.000 1000.00 1100.00 1200.00 1300.00

1.00000e+08 | 0.0159770 0.0209988 0.0251523 0.0267259 0.0267109
1.00000e+07 | 0.0338867 0.0427293 0.0535664 0.0620899 0.0665878
1.00000e+06 | 0.0185219 0.0214620 0.0242683 0.0260020 0.0266831
100000. | 0.00585457 0.00614558 0.00645388 0.00659206 0.00654670
10000.0 | 0.00310670 0.00287296 0.00271304 0.00250382 0.00223001
1000.00 | 0.00157320 0.00118784 0.000915347 0.000692583 0.000510901
100.000 | 0.000384857 0.000233187 0.000149031 9.68750e-05 6.34134e-05
10.0000 | 4.64725e-05 2.58770e-05 1.55507e-05 9.68596e-06 6.16182e-06
1.00000 | 4.44104e-06 2.48297e-06 1.48835e-06 9.24427e-07 5.87168e-07
0.100000 | 4.21524e-07 2.38531e-07 1.43552e-07 8.93291e-08 5.68206e-08
0.0100000 | 4.06394e-08 2.32078e-08 1.40161e-08 8.73783e-09 5.56499e-09
0.00100000 | 3.96695e-09 2.27993e-09 1.38039e-09 8.61650e-10 5.49211e-10
0.000100000 | 3.90825e-10 2.25556e-10 1.36788e-10 8.54546e-11 5.44961e-11
1.00000e-05 | 3.88739e-11 2.24722e-11 1.36377e-11 8.52297e-12 5.43666e-12
1.00000e-06 | 3.88250e-12 2.24538e-12 1.36287e-12 8.51821e-13 5.43413e-13
1.00000e-07 | 3.88163e-13 2.24471e-13 1.36285e-13 8.51721e-14 5.43279e-14
1.00000e-08 | 3.87618e-14 2.24293e-14 1.36454e-14 8.51288e-15 5.43015e-15
1.00000e-09 | 4.00162e-15 2.30538e-15 1.38147e-15 8.57281e-16 5.43232e-16

Pa\K | 1400.00 1500.00 1750.00 2000.00 2250.00

1.00000e+08 | 0.0269195 0.0274481 0.00204070 0.00217464 0.00229076
1.00000e+07 | 0.0691353 0.0705181 0.00129996 0.00136993 0.00132814
1.00000e+06 | 0.0266933 0.0261707 0.00103831 0.000928585 0.000753681
100000. | 0.00633027 0.00596082 0.000665406 0.000465191 0.000294995
10000.0 | 0.00191288 0.00158403 0.000210884 0.000107250 5.21158e-05
1000.00 | 0.000368685 0.000261842 3.11300e-05 1.31540e-05 5.69275e-06
100.000 | 4.17566e-05 2.76972e-05 3.26031e-06 1.31887e-06 5.58848e-07
10.0000 | 3.98394e-06 2.61373e-06 3.20520e-07 1.29255e-07 5.47059e-08
1.00000 | 3.79529e-07 2.49129e-07 3.15477e-08 1.27347e-08 5.39307e-09
0.100000 | 3.67755e-08 2.41673e-08 3.12263e-09 1.26126e-09 5.34346e-10
0.0100000 | 3.60527e-09 2.37092e-09 3.10244e-10 1.25343e-10 5.31134e-11
0.00100000 | 3.56005e-10 2.34208e-10 3.08994e-11 1.24856e-11 5.29144e-12
0.000100000 | 3.53375e-11 2.32537e-11 3.08594e-12 1.24707e-12 5.28560e-13
1.00000e-05 | 3.52601e-12 2.32060e-12 3.08519e-13 1.24679e-13 5.28458e-14
1.00000e-06 | 3.52450e-13 2.31977e-13 3.08493e-14 1.24673e-14 5.28401e-15
1.00000e-07 | 3.52464e-14 2.31907e-14 3.08516e-15 1.24706e-15 5.28247e-16
1.00000e-08 | 3.51839e-15 2.31724e-15 3.08487e-16 1.24394e-16 5.28408e-17
1.00000e-09 | 3.11214e-16 2.04840e-16 2.94675e-17 1.19046e-17 5.04421e-18

Pa\K | 2500.00 2750.00 3000.00 3250.00 3500.00

1.00000e+08 | 0.00232832 0.00225812 0.00208900 0.00185790 0.00160598
1.00000e+07 | 0.00118505 0.000986637 0.000782854 0.000602946 0.000456430
1.00000e+06 | 0.000567157 0.000399737 0.000268605 0.000175058 0.000112181
100000. | 0.000173301 9.64845e-05 5.24114e-05 2.84114e-05 1.55910e-05
10000.0 | 2.48410e-05 1.18753e-05 5.79877e-06 2.92145e-06 1.52442e-06
1000.00 | 2.53472e-06 1.16667e-06 5.57862e-07 2.77705e-07 1.43857e-07
100.000 | 2.46315e-07 1.12848e-07 5.38438e-08 2.67746e-08 1.38610e-08
10.0000 | 2.40974e-08 1.10380e-08 5.26656e-09 2.61899e-09 1.35590e-09
1.00000 | 2.37613e-09 1.08856e-09 5.19440e-10 2.58335e-10 1.33755e-10
0.100000 | 2.35467e-10 1.07883e-10 5.14839e-11 2.56064e-11 1.32587e-11
0.0100000 | 2.34073e-11 1.07252e-11 5.11850e-12 2.54588e-12 1.31828e-12
0.00100000 | 2.33217e-12 1.06866e-12 5.10044e-13 2.53705e-13 1.31378e-13
0.000100000 | 2.32975e-13 1.06761e-13 5.09564e-14 2.53476e-14 1.31264e-14

1.00000e-05	2.32933e-14	1.06743e-14	5.09481e-15	2.53437e-15	1.31244e-15
1.00000e-06	2.32906e-15	1.06745e-15	5.09452e-16	2.53431e-16	1.31234e-16
1.00000e-07	2.32907e-16	1.06753e-16	5.09427e-17	2.53420e-17	1.31325e-17
1.00000e-08	2.32625e-17	1.06388e-17	5.06912e-18	2.52032e-18	1.30335e-18
1.00000e-09	2.22277e-18	1.01836e-18	4.85965e-19	2.41701e-19	1.25151e-19

Pa\K | 3750.00 4000.00

1.00000e+08	0.00136307	0.00114501
1.00000e+07	0.000342278	0.000255607
1.00000e+06	7.14277e-05	4.55583e-05
100000.	8.73193e-06	5.01299e-06
10000.0	8.24170e-07	4.61144e-07
1000.00	7.73966e-08	4.31409e-08
100.000	7.45372e-09	4.15259e-09
10.0000	7.29155e-10	4.06221e-10
1.00000	7.19334e-11	4.00770e-11
0.100000	7.13089e-12	3.97309e-12
0.0100000	7.09034e-13	3.95064e-13
0.00100000	7.06652e-14	3.93757e-14
0.000100000	7.06059e-15	3.93437e-15
1.00000e-05	7.05956e-16	3.93384e-16
1.00000e-06	7.05934e-17	3.93381e-17
1.00000e-07	7.06018e-18	3.93319e-18
1.00000e-08	7.03971e-19	3.91821e-19
1.00000e-09	6.73121e-20	3.75061e-20

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08	4.56654e-25	3.91085e-24	1.40428e-23	3.65294e-23	8.07044e-23
1.00000e+07	4.56331e-22	3.90808e-21	1.40331e-20	3.65044e-20	8.06484e-20
1.00000e+06	4.56020e-19	3.90421e-18	1.40138e-17	3.64386e-17	8.04657e-17
100000.	4.54130e-16	3.87165e-15	1.38381e-14	3.58234e-14	7.87356e-14
10000.0	4.36146e-13	3.57270e-12	1.22860e-11	3.06003e-11	6.46400e-11
1000.00	3.09656e-10	1.95686e-09	5.47668e-09	1.14369e-08	2.06264e-08
100.000	6.20881e-08	2.20095e-07	4.35984e-07	7.10177e-07	1.05304e-06
10.0000	1.96181e-06	4.48437e-06	7.25354e-06	1.04309e-05	1.41517e-05
1.00000	2.18748e-05	4.19043e-05	6.06014e-05	7.91240e-05	9.78954e-05
0.100000	0.000119066	0.000155176	0.000173567	0.000187191	0.000199359
0.0100000	0.000180263	0.000184375	0.000190025	0.000197407	0.000206107
0.00100000	0.000181993	0.000184715	0.000190134	0.000197433	0.000206086
0.000100000	0.000181921	0.000184548	0.000189861	0.000197025	0.000205502
1.00000e-05	0.000181132	0.000182895	0.000187191	0.000193078	0.000199913
1.00000e-06	0.000173662	0.000167915	0.000164083	0.000160702	0.000156914
1.00000e-07	0.000121071	8.71193e-05	6.57222e-05	5.06988e-05	3.96150e-05
1.00000e-08	1.94358e-05	7.10705e-06	3.67254e-06	2.20659e-06	1.44365e-06
1.00000e-09	5.48659e-07	1.72289e-07	8.79584e-08	5.37127e-08	3.60047e-08

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08	1.62479e-22	3.09856e-22	5.73411e-22	1.04657e-21	1.90535e-21
1.00000e+07	1.62363e-19	3.09623e-19	5.72949e-19	1.04565e-18	1.90349e-18
1.00000e+06	1.61911e-16	3.08579e-16	5.70624e-16	1.04056e-15	1.89234e-15
100000.	1.57616e-13	2.98660e-13	5.48615e-13	9.92606e-13	1.78822e-12
10000.0	1.24114e-10	2.24875e-10	3.93290e-10	6.73736e-10	1.14140e-09
1000.00	3.41894e-08	5.38142e-08	8.19979e-08	1.22431e-07	1.80555e-07
100.000	1.48220e-06	2.02383e-06	2.71501e-06	3.60736e-06	4.77228e-06
10.0000	1.85730e-05	2.38928e-05	3.03600e-05	3.82808e-05	4.80252e-05
1.00000	0.000117175	0.000137182	0.000158114	0.000180160	0.000203513
0.100000	0.000211353	0.000223843	0.000237264	0.000251945	0.000268178
0.0100000	0.000216007	0.000227155	0.000239673	0.000253726	0.000269506
0.00100000	0.000215947	0.000227054	0.000239522	0.000253505	0.000269187
0.000100000	0.000215128	0.000225915	0.000237937	0.000251288	0.000266062
1.00000e-05	0.000207393	0.000215336	0.000223562	0.000231837	0.000239862
1.00000e-06	0.000152309	0.000146708	0.000140068	0.000132454	0.000124012
1.00000e-07	3.12247e-05	2.47696e-05	1.97455e-05	1.58002e-05	1.26801e-05
1.00000e-08	9.97783e-07	7.16336e-07	5.28614e-07	3.98160e-07	3.04608e-07
1.00000e-09	2.55534e-08	1.88412e-08	1.42699e-08	1.10206e-08	8.63552e-09

Pa\K | 120.000 130.000 140.000 150.000 160.000

1.00000e+08	3.48677e-21	6.44488e-21	1.20619e-20	2.28705e-20	4.38963e-20
1.00000e+07	3.48296e-18	6.43686e-18	1.20446e-17	2.28321e-17	4.38097e-17
1.00000e+06	3.45831e-15	6.38160e-15	1.19187e-14	2.25406e-14	4.31256e-14
100000.	3.23094e-12	5.87966e-12	1.07968e-11	2.00046e-11	3.73450e-11
10000.0	1.92399e-09	3.23802e-09	5.44872e-09	9.16744e-09	1.54071e-08
1000.00	2.64373e-07	3.85595e-07	5.61253e-07	8.15956e-07	1.18499e-06
100.000	6.30793e-06	8.34830e-06	1.10745e-05	1.47286e-05	1.96290e-05

10.0000	6.00278e-05	7.47837e-05	9.28373e-05	0.000114765	0.000141155
1.00000	0.000228379	0.000254989	0.000283599	0.000314498	0.000348004
0.100000	0.000286244	0.000306432	0.000329039	0.000354383	0.000382798
0.0100000	0.000287235	0.000307161	0.000329555	0.000354710	0.000382938
0.00100000	0.000286772	0.000306483	0.000328551	0.000353208	0.000380672
0.000100000	0.000282327	0.000300110	0.000319364	0.000339948	0.000361595
1.00000e-05	0.000247269	0.000253646	0.000258562	0.000261619	0.000262482
1.00000e-06	0.000114944	0.000105483	9.58665e-05	8.63167e-05	7.70286e-05
1.00000e-07	1.01985e-05	8.21580e-06	6.62581e-06	5.34709e-06	4.31645e-06
1.00000e-08	2.35850e-07	1.84323e-07	1.45103e-07	1.14876e-07	9.13451e-08
1.00000e-09	6.84092e-09	5.46438e-09	4.39238e-09	3.54751e-09	2.87533e-09

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	8.51361e-20	1.66476e-19	3.27396e-19	6.45998e-19	1.27597e-18
1.00000e+07	8.49369e-17	1.66012e-16	3.26307e-16	6.43427e-16	1.26990e-15
1.00000e+06	8.33151e-14	1.62142e-13	3.17048e-13	6.21287e-13	1.21715e-12
100000.	7.00786e-11	1.31817e-10	2.47812e-10	4.64314e-10	8.64812e-10
10000.0	2.58257e-08	4.31011e-08	7.14942e-08	1.17680e-07	1.91946e-07
1000.00	1.71850e-06	2.48715e-06	3.58939e-06	5.16099e-06	7.38676e-06
100.000	2.61873e-05	3.49251e-05	4.64881e-05	6.16550e-05	8.13406e-05
10.0000	0.000172583	0.000209591	0.000252671	0.000302256	0.000358714
1.00000	0.000384469	0.000424273	0.000467825	0.000515561	0.000567936
0.100000	0.000414636	0.000450270	0.000490088	0.000534497	0.000583916
0.0100000	0.000414568	0.000449939	0.000489395	0.000533276	0.000581902
0.00100000	0.000411131	0.000444717	0.000481480	0.000521354	0.000564122
0.000100000	0.000383901	0.000406321	0.000428186	0.000448735	0.000467163
1.00000e-05	0.000260924	0.000256843	0.000250270	0.000241363	0.000230385
1.00000e-06	6.81610e-05	5.98344e-05	5.21315e-05	4.51006e-05	3.87604e-05
1.00000e-07	3.48445e-06	2.81210e-06	2.26842e-06	1.82869e-06	1.47309e-06
1.00000e-08	7.28793e-08	5.82951e-08	4.67178e-08	3.74908e-08	3.01146e-08
1.00000e-09	2.33658e-09	1.90227e-09	1.55060e-09	1.26491e-09	1.03224e-09

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.51781e-18	4.95462e-18	9.70848e-18	1.89190e-17	3.66274e-17
1.00000e+07	2.50348e-15	4.92098e-15	9.62998e-15	1.87373e-14	3.62108e-14
1.00000e+06	2.37862e-12	4.62794e-12	8.94934e-12	1.71753e-11	3.26731e-11
100000.	1.59763e-09	2.92183e-09	5.28181e-09	9.42601e-09	1.65914e-08
10000.0	3.09885e-07	4.94737e-07	7.80556e-07	1.21641e-06	1.87182e-06
1000.00	1.05149e-05	1.48739e-05	2.08913e-05	2.91143e-05	4.02300e-05
100.000	0.000106587	0.000138548	0.000178457	0.000227590	0.000287225
10.0000	0.000422354	0.000493435	0.000572181	0.000658797	0.000753481
1.00000	0.000625428	0.000688531	0.000757751	0.000833602	0.000916603
0.100000	0.000638774	0.000699507	0.000766546	0.000840316	0.000921216
0.0100000	0.000635559	0.000694475	0.000758788	0.000828518	0.000903529
0.00100000	0.000609390	0.000656567	0.000704856	0.000753266	0.000800648
0.000100000	0.000482683	0.000494582	0.000502279	0.000505368	0.000503643
1.00000e-05	0.000217682	0.000203648	0.000188698	0.000173238	0.000157646
1.00000e-06	3.31057e-05	2.81125e-05	2.37436e-05	1.99527e-05	1.66883e-05
1.00000e-07	1.18562e-06	9.53374e-07	7.65883e-07	6.14660e-07	4.92811e-07
1.00000e-08	2.42041e-08	1.94601e-08	1.56479e-08	1.25821e-08	1.01153e-08
1.00000e-09	8.42441e-10	6.87435e-10	5.60769e-10	4.57232e-10	3.72608e-10

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	7.03901e-17	1.34193e-16	2.53655e-16	2.21021e-14	8.82114e-16
1.00000e+07	6.94447e-14	1.32072e-13	2.48953e-13	1.96082e-11	8.59854e-13
1.00000e+06	6.15459e-11	1.14698e-10	2.11328e-10	9.55448e-09	6.91754e-10
100000.	2.87841e-08	4.91963e-08	8.28129e-08	1.09116e-06	2.24076e-07
10000.0	2.84367e-06	4.26479e-06	6.31436e-06	2.50257e-05	1.33228e-05
1000.00	5.50842e-05	7.46968e-05	0.000100271	0.000203058	0.000175026
100.000	0.000358590	0.000442820	0.000540917	0.000717972	0.000781892
10.0000	0.000856444	0.000967916	0.00108816	0.00114803	0.00135613
1.00000	0.00100727	0.00110613	0.00121366	0.00122983	0.00145665
0.100000	0.00100961	0.00110580	0.00121001	0.00121485	0.00144278
0.0100000	0.000983494	0.00106786	0.00115583	0.00111249	0.00133809
0.00100000	0.000845742	0.000887243	0.000923878	0.000804223	0.000978054
0.000100000	0.000497104	0.000485950	0.000470556	0.000364490	0.000429190
1.00000e-05	0.000142259	0.000127355	0.000113158	8.42163e-05	8.74928e-05
1.00000e-06	1.38970e-05	1.15257e-05	9.52291e-06	8.34076e-06	6.43485e-06
1.00000e-07	3.94735e-07	3.15883e-07	2.52555e-07	3.76570e-07	1.61044e-07
1.00000e-08	8.13022e-09	6.53275e-09	5.24743e-09	1.39689e-08	3.38230e-09
1.00000e-09	3.03463e-10	2.46991e-10	2.00899e-10	6.43728e-10	1.32662e-10

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	6.22012e-12	2.05039e-09	6.65452e-07	7.91016e-05	0.00112515
1.00000e+07	4.19412e-09	6.49079e-07	4.01751e-05	0.000830898	0.00490702
1.00000e+06	8.88290e-07	3.56407e-05	0.000516131	0.00339581	0.0110817

100000.	3.50447e-05	0.000460228	0.00265849	0.00842261	0.0172684
10000.0	0.000364154	0.00225805	0.00701272	0.0139998	0.0216575
1000.00	0.00146886	0.00481618	0.00986530	0.0157494	0.0213280
100.000	0.00260359	0.00584342	0.0101453	0.0143438	0.0163905
10.0000	0.00291480	0.00578838	0.00885253	0.00999877	0.00854202
1.00000	0.00026370	0.00498018	0.00577961	0.00454868	0.00271675
0.100000	0.00251002	0.00318668	0.00241961	0.00125352	0.000524864
0.0100000	0.00166169	0.00129252	0.000607669	0.000210304	6.42833e-05
0.00100000	0.000691618	0.000307797	9.17063e-05	2.23344e-05	5.27439e-06
0.000100000	0.000161589	4.24053e-05	8.56670e-06	1.57678e-06	3.07641e-07
1.00000e-05	1.98809e-05	3.37987e-06	5.09761e-07	7.75003e-08	1.35568e-08
1.00000e-06	1.22861e-06	1.58032e-07	2.03660e-08	2.87787e-09	5.00262e-10
1.00000e-07	4.59200e-08	5.53059e-09	7.14567e-10	1.05844e-10	1.98931e-11
1.00000e-08	1.73836e-09	2.20174e-10	3.04098e-11	4.87442e-12	9.99446e-13
1.00000e-09	8.58874e-11	1.16470e-11	1.72089e-12	2.95180e-13	6.45151e-14

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.00329648	0.00484909	0.00566242	0.00535965	0.00429335
1.00000e+07	0.0112067	0.0144343	0.0142611	0.0120343	0.00958627
1.00000e+06	0.0212070	0.0276236	0.0271803	0.0220661	0.0165466
100000.	0.0266120	0.0332149	0.0345606	0.0301118	0.0233224
10000.0	0.0285775	0.0324693	0.0309736	0.0246026	0.0176734
1000.00	0.0244648	0.0232716	0.0182280	0.0122304	0.00788341
100.000	0.0148620	0.0109045	0.00673412	0.00379334	0.00220676
10.0000	0.00565499	0.00311187	0.00152611	0.000737052	0.000393161
1.00000	0.00129612	0.000545090	0.000219326	9.36982e-05	4.68251e-05
0.100000	0.000186057	6.23229e-05	2.14757e-05	8.41790e-06	4.06096e-06
0.0100000	1.77807e-05	4.98871e-06	1.54523e-06	5.80627e-07	2.82141e-07
0.00100000	1.20507e-06	2.99478e-07	8.80506e-08	3.34601e-08	1.72966e-08
0.000100000	6.19701e-08	1.45473e-08	4.32821e-09	1.77118e-09	1.03064e-09
1.00000e-05	2.60725e-09	6.24954e-10	2.02474e-10	9.48161e-11	6.44847e-11
1.00000e-06	1.01007e-10	2.68191e-11	1.00488e-11	5.55147e-12	4.41577e-12
1.00000e-07	4.48790e-12	1.36359e-12	5.91985e-13	3.76863e-13	3.38331e-13
1.00000e-08	2.49761e-13	8.47589e-14	4.11326e-14	2.89780e-14	2.82905e-14
1.00000e-09	1.73357e-14	6.33295e-15	3.29930e-15	2.47487e-15	2.54324e-15

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00339940	0.00315830	0.000845230	0.000819381	0.000903196
1.00000e+07	0.00831999	0.00875152	0.00219207	0.00195842	0.00186034
1.00000e+06	0.0134487	0.0128787	0.00858240	0.00477319	0.00269417
100000.	0.0185712	0.0164509	0.0104454	0.00400165	0.00149150
10000.0	0.0131882	0.0108530	0.00587683	0.00164835	0.000426663
1000.00	0.00550184	0.00427515	0.00192923	0.000398399	7.59944e-05
100.000	0.00144854	0.00106744	0.000399350	6.40301e-05	9.88611e-06
10.0000	0.000244915	0.000172733	5.68321e-05	7.79089e-06	1.07658e-06
1.00000	2.81781e-05	1.94614e-05	6.28125e-06	8.14467e-07	1.08592e-07
0.100000	2.43608e-06	1.71253e-06	6.12084e-07	8.03729e-08	1.07224e-08
0.0100000	1.76715e-07	1.32717e-07	5.73962e-08	7.83768e-09	1.05686e-09
0.00100000	1.19259e-08	9.97587e-09	5.38552e-09	7.65938e-10	1.04415e-10
0.000100000	8.14286e-10	7.71805e-10	5.11197e-10	7.51986e-11	1.03432e-11
1.00000e-05	5.89933e-11	6.28060e-11	4.91145e-11	7.41478e-12	1.02691e-12
1.00000e-06	4.59603e-12	5.37481e-12	4.76740e-12	7.33736e-13	1.02143e-13
1.00000e-07	3.86813e-13	4.83193e-13	4.67851e-13	7.28867e-14	1.01798e-14
1.00000e-08	3.44813e-14	4.50219e-14	4.58977e-14	7.23885e-15	1.01441e-15
1.00000e-09	3.22228e-15	4.32021e-15	4.55332e-15	7.21933e-16	1.01308e-16

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00104673	0.00120316	0.00131697	0.00134586	0.00128575
1.00000e+07	0.00179583	0.00155318	0.00120322	0.000861039	0.000586975
1.00000e+06	0.00159751	0.000889364	0.000466691	0.000238791	0.000123037
100000.	0.000594207	0.000232820	9.09346e-05	3.67857e-05	1.59054e-05
10000.0	0.000122599	3.69588e-05	1.18577e-05	4.18387e-06	1.65818e-06
1000.00	1.72388e-05	4.40898e-06	1.27260e-06	4.21813e-07	1.61511e-07
100.000	1.95098e-06	4.59864e-07	1.26994e-07	4.11394e-08	1.55536e-08
10.0000	1.99808e-07	4.57036e-08	1.24430e-08	4.00028e-09	1.50372e-09
1.00000	1.98045e-08	4.49564e-09	1.21925e-09	3.90775e-10	1.46370e-10
0.100000	1.95276e-09	4.42792e-10	1.19943e-10	3.83737e-11	1.43361e-11
0.0100000	1.92895e-10	4.37470e-11	1.18426e-11	3.78390e-12	1.41076e-12
0.00100000	1.91017e-11	4.33322e-12	1.17238e-12	3.74157e-13	1.39243e-13
0.000100000	1.89578e-12	4.30146e-13	1.16328e-13	3.70900e-14	1.37828e-14
1.00000e-05	1.88494e-13	4.27758e-14	1.15643e-14	3.68455e-15	1.36766e-15
1.00000e-06	1.87695e-14	4.25999e-15	1.15140e-15	3.66664e-16	1.35991e-16
1.00000e-07	1.87189e-15	4.24882e-16	1.14820e-16	3.65517e-17	1.35492e-17
1.00000e-08	1.86666e-16	4.23731e-17	1.14491e-17	3.64345e-18	1.34986e-18
1.00000e-09	1.86480e-17	4.23339e-18	1.14383e-18	3.63974e-19	1.34830e-19

Pa\K | 3750.00 4000.00

1.00000e+08	0.00116149	0.00100602
1.00000e+07	0.000390708	0.000258726
1.00000e+06	6.53775e-05	3.63713e-05
100000.	7.48200e-06	3.84806e-06
10000.0	7.41430e-07	3.71023e-07
1000.00	7.08727e-08	3.50712e-08
100.000	6.76552e-09	3.32210e-09
10.0000	6.50251e-10	3.17183e-10
1.00000	6.30087e-11	3.05656e-11
0.100000	6.14971e-12	2.97018e-12
0.0100000	6.03474e-13	2.90430e-13
0.00100000	5.94123e-14	2.85007e-14
0.000100000	5.86885e-15	2.80800e-15
1.00000e-05	5.81462e-16	2.77650e-16
1.00000e-06	5.77512e-17	2.75361e-17
1.00000e-07	5.74955e-18	2.73871e-18
1.00000e-08	5.72379e-19	2.72381e-19
1.00000e-09	5.71613e-20	2.71950e-20

PAH3+H

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	5.19573e-50	3.01240e-49	1.38730e-48	6.83364e-48	3.81701e-47
1.00000e+07	5.18976e-48	3.00541e-47	1.38250e-46	6.80227e-46	3.79518e-45
1.00000e+06	5.13084e-46	2.93744e-45	1.33643e-44	6.50501e-44	3.59088e-43
100000.	4.61333e-44	2.40605e-43	1.01089e-42	4.58609e-42	2.37636e-41
10000.0	2.35624e-42	8.26642e-42	2.50528e-41	8.47416e-41	3.34817e-40
1000.00	8.89549e-42	4.42304e-42	3.34889e-42	3.95796e-42	6.89811e-42
100.000	5.33803e-44	4.18103e-44	4.52116e-44	6.42891e-44	1.22654e-43
10.0000	1.56653e-45	1.62128e-45	3.09960e-45	7.30224e-45	2.13782e-44
1.00000	5.03955e-46	1.76515e-46	1.70342e-46	3.69908e-46	1.28878e-45
0.100000	1.16808e-46	3.10957e-46	8.42355e-46	2.66112e-45	1.03495e-44
0.0100000	9.42128e-46	2.05418e-45	4.65395e-45	1.25168e-44	4.20510e-44
0.00100000	1.81643e-45	1.35824e-45	1.45660e-45	2.22994e-45	4.80446e-45
0.000100000	3.79316e-47	7.07622e-48	4.17965e-48	4.66583e-48	8.37211e-48
1.00000e-05	4.17910e-50	7.83887e-51	5.21984e-51	6.58679e-51	1.33079e-50
1.00000e-06	9.27466e-53	2.64207e-53	2.25712e-53	3.44651e-53	8.45716e-53
1.00000e-07	8.15121e-55	3.53842e-55	3.92383e-55	7.55123e-55	2.46982e-54
1.00000e-08	2.66369e-56	1.65849e-56	2.24953e-56	5.05188e-56	1.91089e-55
1.00000e-09	2.07929e-57	1.45732e-57	2.07351e-57	4.79418e-57	1.85425e-56

Pa\K	70.0000	80.0000	90.0000	100.0000	110.0000
1.00000e+08	2.53429e-46	2.16662e-45	2.73855e-44	6.11474e-43	2.69229e-41
1.00000e+07	2.51694e-44	2.14942e-43	2.71416e-42	6.05637e-41	2.66649e-39
1.00000e+06	2.35668e-42	1.99250e-41	2.49405e-40	5.53381e-39	2.43619e-37
100000.	1.47308e-40	1.18408e-39	1.42248e-38	3.08052e-37	1.36000e-35
10000.0	1.61319e-39	1.03096e-38	1.02780e-37	2.03187e-36	9.63193e-35
1000.00	1.76650e-41	7.28456e-41	6.57807e-40	2.18487e-38	3.17912e-36
100.000	3.42194e-43	1.65834e-42	1.73025e-41	4.99518e-40	8.04142e-38
10.0000	8.21476e-44	4.67394e-43	4.96331e-42	1.32935e-40	1.28443e-38
1.00000	6.61990e-45	5.70938e-44	1.08208e-42	5.10786e-41	5.79416e-39
0.100000	5.47615e-44	4.76354e-43	9.03242e-42	4.19228e-40	4.37325e-38
0.0100000	1.94581e-43	1.49605e-42	2.53457e-41	1.06928e-39	1.05746e-37
0.00100000	1.54969e-44	8.85380e-44	1.19937e-42	4.67423e-41	5.92836e-39
0.000100000	2.42770e-47	1.34511e-46	2.36909e-45	2.27997e-43	1.09745e-40
1.00000e-05	4.45740e-50	3.74194e-49	2.80855e-47	8.96856e-45	7.75178e-42
1.00000e-06	4.10410e-52	9.94036e-51	2.02191e-48	8.03543e-46	7.46197e-43
1.00000e-07	1.94829e-53	8.18664e-52	1.95551e-49	7.94648e-47	7.43333e-44
1.00000e-08	1.74769e-54	8.02058e-53	1.94900e-50	7.93763e-48	7.43047e-45
1.00000e-09	1.72762e-55	8.00404e-54	1.94834e-51	7.93674e-49	7.43018e-46

Pa\K	120.0000	130.0000	140.0000	150.0000	160.0000
1.00000e+08	1.80869e-39	1.47561e-37	1.08356e-35	6.20699e-34	1.87956e-32
1.00000e+07	1.79203e-37	1.46313e-35	1.07546e-33	6.16490e-32	1.86638e-30
1.00000e+06	1.64312e-35	1.35113e-33	1.00233e-31	5.78373e-30	1.74745e-28
100000.	9.36313e-34	8.01251e-32	6.28574e-30	3.77792e-28	1.13074e-26
10000.0	7.78067e-33	8.52870e-31	9.32153e-29	6.90314e-27	2.02947e-25
1000.00	7.12982e-34	2.34248e-31	1.26949e-28	1.60604e-26	4.78428e-25
100.000	3.21623e-35	2.10230e-32	1.16573e-28	1.78514e-26	5.34849e-25
10.0000	3.49711e-36	2.16653e-33	1.15112e-28	1.80521e-26	5.41245e-25
1.00000	9.88093e-37	3.32492e-34	1.14972e-28	1.80749e-26	5.41978e-25
0.100000	5.74987e-36	9.51984e-34	1.15092e-28	1.80916e-26	5.42536e-25
0.0100000	1.38782e-35	2.51938e-33	1.15543e-28	1.81477e-26	5.44273e-25
0.00100000	1.26394e-36	4.93831e-34	1.15627e-28	1.81826e-26	5.45298e-25
0.000100000	5.72801e-38	4.38368e-35	1.15610e-28	1.81876e-26	5.45447e-25
1.00000e-05	4.99113e-39	4.28410e-36	1.15608e-28	1.81881e-26	5.45463e-25

1.00000e-06	4.91826e-40	4.27360e-37	1.15608e-28	1.81882e-26	5.45464e-25
1.00000e-07	4.91099e-41	4.27254e-38	1.15608e-28	1.81882e-26	5.45465e-25
1.00000e-08	4.91026e-42	4.27244e-39	1.15608e-28	1.81882e-26	5.45465e-25
1.00000e-09	4.91019e-43	4.27243e-40	1.15608e-28	1.81882e-26	5.45465e-25

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.80712e-31	5.67374e-30	6.60443e-29	6.19579e-28	4.83442e-27
1.00000e+07	3.77859e-29	5.62778e-28	6.54598e-27	6.13559e-26	4.78263e-25
1.00000e+06	3.52309e-27	5.21984e-26	6.03289e-25	5.61353e-24	4.33964e-23
100000.	2.23458e-25	3.23064e-24	3.62689e-23	3.26732e-22	2.43734e-21
10000.0	3.81673e-24	5.19648e-23	5.44314e-22	4.54923e-21	3.13304e-20
1000.00	8.80337e-24	1.16210e-22	1.17321e-21	9.42392e-21	6.22885e-20
100.000	9.82149e-24	1.29134e-22	1.29693e-21	1.03581e-20	6.80536e-20
10.0000	9.93702e-24	1.30599e-22	1.31093e-21	1.04634e-20	6.87016e-20
1.00000	9.95045e-24	1.30772e-22	1.31262e-21	1.04765e-20	6.87856e-20
0.100000	9.96174e-24	1.30934e-22	1.31441e-21	1.04923e-20	6.88996e-20
0.0100000	9.99433e-24	1.31371e-22	1.31887e-21	1.05283e-20	6.91386e-20
0.00100000	1.00124e-23	1.31598e-22	1.32104e-21	1.05447e-20	6.92392e-20
0.000100000	1.00151e-23	1.31631e-22	1.32134e-21	1.05469e-20	6.92528e-20
1.00000e-05	1.00153e-23	1.31635e-22	1.32137e-21	1.05472e-20	6.92543e-20
1.00000e-06	1.00154e-23	1.31635e-22	1.32138e-21	1.05472e-20	6.92544e-20
1.00000e-07	1.00154e-23	1.31635e-22	1.32138e-21	1.05472e-20	6.92544e-20
1.00000e-08	1.00154e-23	1.31635e-22	1.32138e-21	1.05472e-20	6.92544e-20
1.00000e-09	1.00154e-23	1.31635e-22	1.32138e-21	1.05472e-20	6.92544e-20

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	3.21930e-26	1.86778e-25	9.60229e-25	4.43817e-24	1.86687e-23
1.00000e+07	3.18113e-24	1.84317e-23	9.46139e-23	4.36553e-22	1.83275e-21
1.00000e+06	2.85959e-22	1.63946e-21	8.31721e-21	3.78785e-20	1.56752e-19
100000.	1.54432e-20	8.48246e-20	4.10829e-19	1.77996e-18	6.98302e-18
10000.0	1.82484e-19	9.18263e-19	4.06401e-18	1.60601e-17	5.74001e-17
1000.00	3.48042e-19	1.68074e-18	7.14520e-18	2.71578e-17	9.35017e-17
100.000	3.77970e-19	1.81449e-18	7.66978e-18	2.89928e-17	9.93042e-17
10.0000	3.81323e-19	1.82943e-18	7.72827e-18	2.91971e-17	9.99496e-17
1.00000	3.81779e-19	1.83159e-18	7.73735e-18	2.92317e-17	1.00071e-16
0.100000	3.82476e-19	1.83528e-18	7.75446e-18	2.93025e-17	1.00335e-16
0.0100000	3.83810e-19	1.84167e-18	7.78134e-18	2.94028e-17	1.00672e-16
0.00100000	3.84331e-19	1.84399e-18	7.79037e-18	2.94342e-17	1.00771e-16
0.000100000	3.84400e-19	1.84429e-18	7.79153e-18	2.94382e-17	1.00783e-16
1.00000e-05	3.84407e-19	1.84432e-18	7.79165e-18	2.94386e-17	1.00784e-16
1.00000e-06	3.84408e-19	1.84433e-18	7.79166e-18	2.94386e-17	1.00784e-16
1.00000e-07	3.84408e-19	1.84433e-18	7.79166e-18	2.94386e-17	1.00784e-16
1.00000e-08	3.84408e-19	1.84433e-18	7.79166e-18	2.94386e-17	1.00784e-16
1.00000e-09	3.84408e-19	1.84433e-18	7.79166e-18	2.94386e-17	1.00784e-16

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	7.22036e-23	2.58959e-22	8.67372e-22	2.75472e-21	8.10418e-21
1.00000e+07	7.07300e-21	2.53062e-20	8.45369e-20	2.22016e-19	7.85154e-19
1.00000e+06	5.95484e-19	2.09445e-18	6.86942e-18	7.92233e-18	6.13049e-17
100000.	2.50628e-17	8.30167e-17	2.55678e-16	3.48081e-16	1.99818e-15
10000.0	1.87585e-16	5.65815e-16	1.58801e-15	1.31419e-15	1.03526e-14
1000.00	2.94858e-16	8.59801e-16	2.33729e-15	7.05911e-15	1.43780e-14
100.000	3.11636e-16	9.04597e-16	2.44866e-15	6.30098e-15	1.49496e-14
10.0000	3.13503e-16	9.09588e-16	2.46110e-15	6.23269e-15	1.50143e-14
1.00000	3.13897e-16	9.10792e-16	2.46458e-15	6.26773e-15	1.50390e-14
0.100000	3.14794e-16	9.13594e-16	2.47268e-15	6.28928e-15	1.50943e-14
0.0100000	3.15827e-16	9.16501e-16	2.48026e-15	6.26613e-15	1.51365e-14
0.00100000	3.16108e-16	9.17242e-16	2.48208e-15	6.26005e-15	1.51455e-14
0.000100000	3.16142e-16	9.17331e-16	2.48229e-15	6.25951e-15	1.51465e-14
1.00000e-05	3.16146e-16	9.17340e-16	2.48231e-15	6.25946e-15	1.51466e-14
1.00000e-06	3.16146e-16	9.17341e-16	2.48232e-15	6.25946e-15	1.51467e-14
1.00000e-07	3.16146e-16	9.17341e-16	2.48232e-15	6.25946e-15	1.51467e-14
1.00000e-08	3.16146e-16	9.17341e-16	2.48232e-15	6.25946e-15	1.51467e-14
1.00000e-09	3.16146e-16	9.17341e-16	2.48232e-15	6.25946e-15	1.51467e-14

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	4.26218e-15	8.59723e-12	3.89480e-09	6.47049e-07	1.79489e-05
1.00000e+07	3.43550e-13	5.32450e-09	3.19728e-07	2.69488e-06	1.43327e-05
1.00000e+06	1.84820e-11	1.21697e-07	4.22172e-06	1.51575e-05	2.69884e-05
100000.	9.20702e-11	1.05748e-07	4.01396e-06	1.79294e-05	3.21555e-05
10000.0	3.55361e-11	1.49519e-08	9.37064e-07	8.51648e-06	2.17863e-05
1000.00	8.54883e-12	1.84053e-09	2.35555e-07	3.69462e-06	1.16491e-05
100.000	6.67821e-12	7.11686e-10	6.82070e-08	1.15873e-06	3.72398e-06
10.0000	6.54114e-12	5.42129e-10	1.92841e-08	2.52643e-07	1.02318e-06
1.00000	6.55263e-12	5.17290e-10	1.15569e-08	1.17530e-07	6.49602e-07
0.100000	6.56373e-12	5.14948e-10	1.08119e-08	1.04644e-07	6.13265e-07

0.0100000	6.56351e-12	5.14723e-10	1.07416e-08	1.03434e-07	6.09795e-07
0.00100000	6.56329e-12	5.14703e-10	1.07347e-08	1.03317e-07	6.09458e-07
0.000100000	6.56327e-12	5.14701e-10	1.07341e-08	1.03305e-07	6.09424e-07
1.00000e-05	6.56327e-12	5.14701e-10	1.07340e-08	1.03304e-07	6.09421e-07
1.00000e-06	6.56327e-12	5.14701e-10	1.07340e-08	1.03304e-07	6.09421e-07
1.00000e-07	6.56327e-12	5.14701e-10	1.07340e-08	1.03304e-07	6.09421e-07
1.00000e-08	6.56327e-12	5.14701e-10	1.07340e-08	1.03304e-07	6.09421e-07
1.00000e-09	6.56327e-12	5.14701e-10	1.07340e-08	1.03304e-07	6.09421e-07

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.000124695	0.000430138	0.000954847	0.00137153	0.00146389
1.00000e+07	6.48128e-05	0.000249737	0.000728686	0.00142560	0.00213891
1.00000e+06	4.69524e-05	0.000110106	0.000293032	0.000573803	0.000939349
100000.	4.58490e-05	6.75017e-05	0.000115672	0.000192513	0.000310843
10000.0	3.35728e-05	4.49878e-05	6.43265e-05	0.000101771	0.000173144
1000.00	1.80093e-05	2.39297e-05	3.75365e-05	7.01425e-05	0.000137657
100.000	6.24876e-06	1.16267e-05	2.64305e-05	6.07577e-05	0.000128900
10.0000	3.02707e-06	8.99088e-06	2.45268e-05	5.94237e-05	0.000128957
1.00000	2.62784e-06	8.69419e-06	2.43275e-05	5.92910e-05	0.000128867
0.100000	2.58905e-06	8.66561e-06	2.43085e-05	5.92783e-05	0.000128858
0.0100000	2.58532e-06	8.66286e-06	2.43066e-05	5.92771e-05	0.000128857
0.00100000	2.58495e-06	8.66259e-06	2.43065e-05	5.92770e-05	0.000128857
0.000100000	2.58492e-06	8.66256e-06	2.43064e-05	5.92770e-05	0.000128857
1.00000e-05	2.58491e-06	8.66256e-06	2.43064e-05	5.92770e-05	0.000128857
1.00000e-06	2.58491e-06	8.66256e-06	2.43064e-05	5.92770e-05	0.000128857
1.00000e-07	2.58491e-06	8.66256e-06	2.43064e-05	5.92770e-05	0.000128857
1.00000e-08	2.58491e-06	8.66256e-06	2.43064e-05	5.92770e-05	0.000128857
1.00000e-09	2.58491e-06	8.66256e-06	2.43064e-05	5.92770e-05	0.000128857

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00139253	0.00133536	0.0272779	0.0312149	0.0325534
1.00000e+07	0.00273657	0.00313153	0.0332896	0.0326941	0.0275526
1.00000e+06	0.00138787	0.00173933	0.0142834	0.0125060	0.0116761
100000.	0.000492920	0.000716440	0.00375552	0.00520022	0.00767861
10000.0	0.000300228	0.000503888	0.00196151	0.00409358	0.00711351
1000.00	0.000261391	0.000466707	0.00172435	0.00395517	0.00704562
100.000	0.000254958	0.000461748	0.00169826	0.00394119	0.00703895
10.0000	0.000254283	0.000461318	0.00169584	0.00393993	0.00703834
1.00000	0.000254222	0.000461284	0.00169561	0.00393981	0.00703828
0.100000	0.000254216	0.000461281	0.00169559	0.00393980	0.00703827
0.0100000	0.000254215	0.000461281	0.00169559	0.00393980	0.00703827
0.00100000	0.000254215	0.000461281	0.00169559	0.00393980	0.00703827
0.000100000	0.000254215	0.000461281	0.00169559	0.00393980	0.00703827
1.00000e-05	0.000254215	0.000461281	0.00169559	0.00393980	0.00703827
1.00000e-06	0.000254215	0.000461281	0.00169559	0.00393980	0.00703827
1.00000e-07	0.000254215	0.000461281	0.00169559	0.00393980	0.00703827
1.00000e-08	0.000254215	0.000461281	0.00169559	0.00393980	0.00703827
1.00000e-09	0.000254215	0.000461281	0.00169559	0.00393980	0.00703827

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.0318075	0.0296679	0.0269865	0.0244351	0.0223247
1.00000e+07	0.0229145	0.0202551	0.0191238	0.0187379	0.0185714
1.00000e+06	0.0126076	0.0143117	0.0159215	0.0170793	0.0177372
100000.	0.0106424	0.0133811	0.0154883	0.0168810	0.0176492
10000.0	0.0103818	0.0132662	0.0154390	0.0168605	0.0176410
1000.00	0.0103526	0.0132542	0.0154342	0.0168586	0.0176404
100.000	0.0103498	0.0132531	0.0154337	0.0168585	0.0176403
10.0000	0.0103495	0.0132530	0.0154337	0.0168585	0.0176403
1.00000	0.0103495	0.0132530	0.0154337	0.0168585	0.0176403
0.100000	0.0103495	0.0132530	0.0154337	0.0168585	0.0176403
0.0100000	0.0103495	0.0132530	0.0154337	0.0168585	0.0176403
0.00100000	0.0103495	0.0132530	0.0154337	0.0168585	0.0176403
0.000100000	0.0103495	0.0132530	0.0154337	0.0168585	0.0176403
1.00000e-05	0.0103495	0.0132530	0.0154337	0.0168585	0.0176403
1.00000e-06	0.0103495	0.0132530	0.0154337	0.0168585	0.0176403
1.00000e-07	0.0103495	0.0132530	0.0154337	0.0168585	0.0176403
1.00000e-08	0.0103495	0.0132530	0.0154337	0.0168585	0.0176403
1.00000e-09	0.0103495	0.0132530	0.0154337	0.0168585	0.0176403

Pa\K	3750.00	4000.00
1.00000e+08	0.0206828	0.0194124
1.00000e+07	0.0183786	0.0180822
1.00000e+06	0.0179735	0.0178968
100000.	0.0179367	0.0178834
10000.0	0.0179338	0.0178827
1000.00	0.0179337	0.0178827

100.000	0.0179337	0.0178828
10.0000	0.0179337	0.0178828
1.00000	0.0179337	0.0178828
0.100000	0.0179337	0.0178828
0.0100000	0.0179337	0.0178828
0.00100000	0.0179337	0.0178828
0.000100000	0.0179337	0.0178828
1.00000e-05	0.0179337	0.0178828
1.00000e-06	0.0179337	0.0178828
1.00000e-07	0.0179337	0.0178828
1.00000e-08	0.0179337	0.0178828
1.00000e-09	0.0179337	0.0178828

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	4.10061e-16	1.71394e-15	4.00566e-15	7.53559e-15	1.26790e-14
1.00000e+07	4.10044e-14	1.71380e-13	4.00515e-13	7.53431e-13	1.26762e-12
1.00000e+06	4.09876e-12	1.71237e-11	4.00013e-11	7.52158e-11	1.26490e-10
100000.	4.08204e-10	1.69824e-09	3.95054e-09	7.39635e-09	1.23821e-08
10000.0	3.92135e-08	1.56773e-07	3.50958e-07	6.32450e-07	1.01846e-06
1000.00	2.77813e-06	8.52167e-06	1.54505e-05	2.32646e-05	3.19323e-05
100.000	5.33906e-05	9.00011e-05	0.000114301	0.000133543	0.000150433
10.0000	0.000153150	0.000167000	0.000174348	0.000180912	0.000187400
1.00000	0.000158733	0.000142868	0.000130022	0.000119006	0.000109010
0.100000	6.35073e-05	2.99382e-05	1.68745e-05	1.05040e-05	6.96888e-06
0.0100000	1.82173e-06	3.94133e-07	1.61305e-07	8.61502e-08	5.34538e-08
0.00100000	1.58210e-08	6.65321e-09	5.11305e-09	4.64319e-09	4.50448e-09
0.000100000	3.57139e-09	3.42444e-09	3.46423e-09	3.56743e-09	3.70613e-09
1.00000e-05	3.22401e-09	3.23927e-09	3.31211e-09	3.41696e-09	3.54068e-09
1.00000e-06	3.06203e-09	2.96021e-09	2.89433e-09	2.83750e-09	2.77410e-09
1.00000e-07	2.13279e-09	1.53519e-09	1.15902e-09	8.95052e-10	7.00302e-10
1.00000e-08	3.42413e-10	1.25279e-10	6.47985e-11	3.89824e-11	2.55421e-11
1.00000e-09	9.67961e-12	3.04400e-12	1.55656e-12	9.52263e-13	6.39598e-13

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.99808e-14	3.02387e-14	4.46250e-14	6.48728e-14	9.35581e-14
1.00000e+07	1.99755e-12	3.02290e-12	4.46080e-12	6.48435e-12	9.35082e-12
1.00000e+06	1.99226e-10	3.01325e-10	4.44383e-10	6.45516e-10	9.30115e-10
100000.	1.94075e-08	2.91974e-08	4.28043e-08	6.17611e-08	8.83045e-08
10000.0	1.53347e-06	2.21162e-06	3.09949e-06	4.25984e-06	5.77621e-06
1000.00	4.15251e-05	5.21796e-05	6.40783e-05	7.74401e-05	9.25159e-05
100.000	0.000166288	0.000181894	0.000197782	0.000214344	0.000231893
10.0000	0.000193963	0.000200638	0.000207393	0.000214139	0.000220733
1.00000	9.96755e-05	9.08428e-05	8.24423e-05	7.44526e-05	6.68785e-05
0.100000	4.83473e-06	3.46657e-06	2.54892e-06	1.91145e-06	1.45611e-06
0.0100000	3.66339e-08	2.70153e-08	2.11159e-08	1.73293e-08	1.48363e-08
0.00100000	4.51415e-09	4.60962e-09	4.76572e-09	4.97187e-09	5.22415e-09
0.000100000	3.87169e-09	4.06198e-09	4.27725e-09	4.51867e-09	4.78767e-09
1.00000e-05	3.67729e-09	3.82334e-09	3.97550e-09	4.12961e-09	4.28026e-09
1.00000e-06	2.69660e-09	2.60158e-09	2.48811e-09	2.35716e-09	2.21116e-09
1.00000e-07	5.52812e-10	4.39253e-10	3.50776e-10	2.81212e-10	2.26123e-10
1.00000e-08	1.76831e-11	1.27183e-11	9.40363e-12	7.09749e-12	5.44154e-12
1.00000e-09	4.54913e-13	3.36180e-13	2.55221e-13	1.97596e-13	1.55230e-13

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.34529e-13	1.93558e-13	2.79325e-13	4.04904e-13	5.90007e-13
1.00000e+07	1.34445e-11	1.93414e-11	2.79079e-11	4.04480e-11	5.89271e-11
1.00000e+06	1.33603e-09	1.91985e-09	2.76639e-09	4.00289e-09	5.82018e-09
100000.	1.25703e-07	1.78732e-07	2.54350e-07	3.62659e-07	5.18245e-07
10000.0	7.75855e-06	1.03498e-05	1.37335e-05	1.81416e-05	2.38632e-05
1000.00	0.000109585	0.000128953	0.000150948	0.000175913	0.000204204
100.000	0.000250687	0.000270940	0.000292820	0.000316444	0.000341864
10.0000	0.000226983	0.000232655	0.000237487	0.000241203	0.000243539
1.00000	5.97381e-05	5.30535e-05	4.68447e-05	4.11253e-05	3.59012e-05
0.100000	1.12348e-06	8.76023e-07	6.89182e-07	5.46394e-07	4.36204e-07
0.0100000	1.31863e-08	1.21167e-08	1.14679e-08	1.11395e-08	1.10670e-08
0.00100000	5.52215e-09	5.86743e-09	6.26269e-09	6.71129e-09	7.21670e-09
0.000100000	5.08543e-09	5.41247e-09	5.76808e-09	6.14985e-09	6.55315e-09
1.00000e-05	4.42089e-09	4.54402e-09	4.64185e-09	4.70703e-09	4.73334e-09
1.00000e-06	2.05360e-09	1.88852e-09	1.72008e-09	1.55223e-09	1.38844e-09
1.00000e-07	1.82243e-10	1.47126e-10	1.18916e-10	9.61872e-11	7.78325e-11
1.00000e-08	4.22272e-12	3.30788e-12	2.61038e-12	2.07182e-12	1.65175e-12
1.00000e-09	1.23300e-13	9.87617e-14	7.96143e-14	6.44914e-14	5.24323e-14

Pa\K	170.000	180.000	190.000	200.000	210.000
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1.00000e+08	8.64345e-13	1.27267e-12	1.88226e-12	2.79406e-12	4.15902e-12
1.00000e+07	8.63060e-11	1.27041e-10	1.87827e-10	2.78697e-10	4.14643e-10
1.00000e+06	8.50423e-09	1.24827e-08	1.83930e-08	2.71820e-08	4.02493e-08
100000.	7.42022e-07	1.06372e-06	1.52517e-06	2.18463e-06	3.12218e-06
10000.0	3.12530e-05	4.07384e-05	5.28264e-05	6.81070e-05	8.72542e-05
1000.00	0.000236183	0.000272207	0.000312621	0.000357747	0.000407870
100.000	0.000369053	0.000397886	0.000428131	0.000459431	0.000491310
10.0000	0.000244263	0.000243196	0.000240232	0.000235344	0.000228589
1.00000	3.11693e-05	2.69183e-05	2.31296e-05	1.97783e-05	1.68355e-05
0.100000	3.50515e-07	2.83487e-07	2.30836e-07	1.89378e-07	1.56708e-07
0.0100000	1.12084e-08	1.15365e-08	1.20338e-08	1.26891e-08	1.34957e-08
0.00100000	7.78212e-09	8.40993e-09	9.10112e-09	9.85464e-09	1.06667e-08
0.000100000	6.97086e-09	7.39324e-09	7.80822e-09	8.20194e-09	8.55963e-09
1.00000e-05	4.71640e-09	4.65404e-09	4.54648e-09	4.39622e-09	4.20773e-09
1.00000e-06	1.23157e-09	1.08383e-09	9.46743e-10	8.21248e-10	7.07750e-10
1.00000e-07	6.29852e-11	5.09616e-11	4.12175e-11	3.33185e-11	2.69154e-11
1.00000e-08	1.32143e-12	1.05997e-12	8.51939e-13	6.85746e-13	5.52556e-13
1.00000e-09	4.27437e-14	3.49135e-14	2.85564e-14	2.33775e-14	1.91476e-14

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	6.20215e-12	9.25743e-12	1.38184e-11	2.06110e-11	3.06975e-11
1.00000e+07	6.17976e-10	9.21762e-10	1.37478e-09	2.04862e-09	3.04776e-09
1.00000e+06	5.96522e-08	8.83956e-08	1.30838e-07	1.93255e-07	2.84603e-07
100000.	4.44649e-06	6.30297e-06	8.88332e-06	1.24365e-05	1.72806e-05
10000.0	0.000111023	0.000140243	0.000175804	0.000218642	0.000269715
1000.00	0.000463221	0.000523959	0.000590148	0.000661740	0.000738543
100.000	0.000523170	0.000554311	0.000583962	0.000611311	0.000635554
10.0000	0.000220102	0.000210083	0.000198786	0.000186496	0.000173514
1.00000	1.42690e-05	1.20453e-05	1.01304e-05	8.49084e-06	7.09473e-06
0.100000	1.30996e-07	1.10831e-07	9.51204e-08	8.30076e-08	7.38207e-08
0.0100000	1.44493e-08	1.55469e-08	1.67854e-08	1.81609e-08	1.96668e-08
0.00100000	1.15303e-08	1.24347e-08	1.33653e-08	1.43037e-08	1.52286e-08
0.000100000	8.86663e-09	9.10954e-09	9.27719e-09	9.36147e-09	9.35785e-09
1.00000e-05	3.98695e-09	3.74081e-09	3.47666e-09	3.20180e-09	2.92307e-09
1.00000e-06	6.06225e-10	5.16312e-10	4.37406e-10	3.68730e-10	3.09411e-10
1.00000e-07	2.17263e-11	1.75233e-11	1.41213e-11	1.13698e-11	9.14645e-12
1.00000e-08	4.45553e-13	3.59435e-13	2.90034e-13	2.34057e-13	1.88879e-13
1.00000e-09	1.56864e-14	1.28509e-14	1.05261e-14	8.61940e-15	7.05541e-15

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	4.56240e-11	6.76292e-11	9.99362e-11	9.89840e-10	2.15869e-10
1.00000e+07	4.52388e-09	6.69578e-09	9.87729e-09	9.40488e-08	2.12446e-08
1.00000e+06	4.17559e-07	6.09898e-07	8.86300e-07	6.49159e-06	1.83925e-06
100000.	2.38161e-05	3.25385e-05	4.40512e-05	0.000153590	7.84674e-05
10000.0	0.000329982	0.000400367	0.000481734	0.000740595	0.000680367
1000.00	0.000820206	0.000906194	0.000995781	0.000980152	0.00118185
100.000	0.000655937	0.000671801	0.000682623	0.000524404	0.000687873
10.0000	0.000160137	0.000146648	0.000133298	8.96181e-05	0.000107853
1.00000	5.91198e-06	4.91481e-06	4.07791e-06	3.74643e-06	2.79654e-06
0.100000	6.70277e-08	6.22059e-08	5.90170e-08	9.49984e-08	5.64976e-08
0.0100000	2.12938e-08	2.30283e-08	2.48521e-08	2.69694e-08	2.86706e-08
0.00100000	1.61162e-08	1.69418e-08	1.76809e-08	1.74408e-08	1.88124e-08
0.000100000	9.26556e-09	9.08747e-09	8.82968e-09	7.76988e-09	8.11197e-09
1.00000e-05	2.64658e-09	2.37751e-09	2.12006e-09	1.79099e-09	1.65163e-09
1.00000e-06	2.58530e-10	2.15164e-10	1.78420e-10	1.77502e-10	1.21483e-10
1.00000e-07	7.35165e-12	5.90426e-12	4.73821e-12	8.06239e-12	3.04521e-12
1.00000e-08	1.52409e-13	1.22962e-13	9.91885e-14	3.05687e-13	6.45112e-14
1.00000e-09	5.77277e-15	4.72121e-15	3.85950e-15	1.47319e-14	2.57606e-15

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	3.62756e-08	1.27094e-06	4.87096e-05	0.00104265	0.00442048
1.00000e+07	3.01095e-06	6.83069e-05	0.000921559	0.00522350	0.0102596
1.00000e+06	0.000118792	0.00107283	0.00469267	0.0103042	0.0123585
100000.	0.00108369	0.00372831	0.00703128	0.00820660	0.00688480
10000.0	0.00220266	0.00363594	0.00360828	0.00249486	0.00151035
1000.00	0.00148804	0.00122431	0.000648776	0.000280616	0.000133454
100.000	0.000356229	0.000142003	4.45719e-05	1.51077e-05	8.13109e-06
10.0000	2.66887e-05	6.32483e-06	1.91799e-06	1.15212e-06	1.09396e-06
1.00000	7.72177e-07	3.23100e-07	2.88744e-07	2.61727e-07	2.22445e-07
0.100000	8.29142e-08	1.00823e-07	8.64963e-08	5.64728e-08	3.46343e-08
0.0100000	4.08606e-08	3.49159e-08	1.91977e-08	8.49799e-09	3.80767e-09
0.00100000	1.60941e-08	7.98613e-09	2.79883e-09	8.70608e-10	2.99969e-10
0.000100000	3.72315e-09	1.09289e-09	2.59861e-10	6.11051e-11	1.76751e-11
1.00000e-05	4.57634e-10	8.71586e-11	1.55359e-11	3.07241e-12	8.64702e-13
1.00000e-06	2.83598e-11	4.11066e-12	6.38311e-13	1.25737e-13	4.34254e-14
1.00000e-07	1.07565e-12	1.49225e-13	2.46551e-14	5.93748e-15	2.89885e-15
1.00000e-08	4.25622e-14	6.51062e-15	1.27027e-15	3.92873e-16	2.45765e-16

1.00000e-09 | 2.26885e-15 3.92498e-16 8.94726e-17 3.27964e-17 2.31067e-17

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.00522882	0.00440009	0.00517469	0.00793512	0.0129928
1.00000e+07	0.00953417	0.00705624	0.00662431	0.00815432	0.0110940
1.00000e+06	0.0101477	0.00822085	0.00824756	0.00955363	0.0106480
100000.	0.00501247	0.00415369	0.00425808	0.00476204	0.00481762
10000.0	0.000951894	0.000776236	0.000822385	0.000946917	0.000945776
1000.00	8.18715e-05	7.75423e-05	0.000100787	0.000133441	0.000140370
100.000	7.22076e-06	9.39780e-06	1.41093e-05	1.91887e-05	1.98964e-05
10.0000	1.18362e-06	1.45267e-06	1.93994e-06	2.41871e-06	2.39319e-06
1.00000	1.88902e-07	1.83867e-07	2.10529e-07	2.46637e-07	2.41332e-07
0.100000	2.20694e-08	1.74591e-08	1.84537e-08	2.20365e-08	2.24102e-08
0.0100000	1.89822e-09	1.33102e-09	1.47245e-09	1.93396e-09	2.08600e-09
0.00100000	1.26932e-10	9.17191e-11	1.20559e-10	1.77109e-10	1.99839e-10
0.000100000	7.37140e-12	6.65978e-12	1.07526e-11	1.70028e-11	1.96195e-11
1.00000e-05	4.48820e-13	5.59003e-13	1.03071e-12	1.68033e-12	1.95292e-12
1.00000e-06	3.32422e-14	5.21260e-14	1.01675e-13	1.67470e-13	1.95054e-13
1.00000e-07	2.95593e-15	5.09757e-15	1.01257e-14	1.67301e-14	1.94981e-14
1.00000e-08	2.84158e-16	5.06115e-16	1.01120e-15	1.67243e-15	1.94954e-15
1.00000e-09	2.80245e-17	5.04830e-17	1.01070e-16	1.67220e-16	1.94943e-16

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.0185394	0.0225527	0.00255673	0.00286570	0.00326153
1.00000e+07	0.0150823	0.0189618	0.00260810	0.00263496	0.00247507
1.00000e+06	0.0108602	0.0107835	0.00232941	0.00134624	0.000768895
100000.	0.00417680	0.00339058	0.000585574	0.000236692	0.000106355
10000.0	0.000768688	0.000563742	8.41158e-05	2.96430e-05	1.20620e-05
1000.00	0.000113636	8.03665e-05	1.12246e-05	3.53314e-06	1.30660e-06
100.000	1.57024e-05	1.07238e-05	1.39234e-06	3.91850e-07	1.34953e-07
10.0000	1.83958e-06	1.22738e-06	1.52924e-07	4.04987e-08	1.35409e-08
1.00000	1.86061e-07	1.24335e-07	1.55743e-08	4.05834e-09	1.34807e-09
0.100000	1.77732e-08	1.20787e-08	1.55068e-09	4.04215e-10	1.34238e-10
0.0100000	1.70535e-09	1.17759e-09	1.54131e-10	4.02811e-11	1.33845e-11
0.00100000	1.66543e-10	1.16083e-10	1.53762e-11	4.02359e-12	1.33734e-12
0.000100000	1.64906e-11	1.15400e-11	1.53660e-12	4.02267e-13	1.33717e-13
1.00000e-05	1.64522e-12	1.15242e-12	1.53624e-13	4.02240e-14	1.33713e-14
1.00000e-06	1.64422e-13	1.15200e-13	1.53608e-14	4.02228e-15	1.33712e-15
1.00000e-07	1.64389e-14	1.15185e-14	1.53601e-15	4.02223e-16	1.33711e-16
1.00000e-08	1.64376e-15	1.15178e-15	1.53596e-16	4.02220e-17	1.33711e-17
1.00000e-09	1.64371e-16	1.15176e-16	1.53595e-17	4.02218e-18	1.33711e-18

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00368436	0.00394180	0.00391143	0.00361733	0.00317061
1.00000e+07	0.00201985	0.00148388	0.00103292	0.000709077	0.000491845
1.00000e+06	0.000420525	0.000230135	0.000130822	7.86207e-05	5.00943e-05
100000.	4.96981e-05	2.45545e-05	1.30922e-05	7.57447e-06	4.72399e-06
10000.0	5.22320e-06	2.45287e-06	1.27145e-06	7.25804e-07	4.50151e-07
1000.00	5.32105e-07	2.42406e-07	1.24146e-07	7.05900e-08	4.37385e-08
100.000	5.31748e-08	2.39422e-08	1.22218e-08	6.94500e-09	4.30340e-09
10.0000	5.28112e-09	2.37168e-09	1.21019e-09	6.87730e-10	4.26202e-10
1.00000	5.24878e-10	2.35668e-10	1.20264e-10	6.83516e-11	4.23629e-11
0.100000	5.22683e-11	2.34708e-11	1.19784e-11	6.80832e-12	4.21984e-12
0.0100000	5.21252e-12	2.34091e-12	1.19479e-12	6.79135e-13	4.20954e-13
0.00100000	5.20876e-13	2.33936e-13	1.19404e-13	6.78736e-14	4.20718e-14
0.000100000	5.20824e-14	2.33916e-14	1.19395e-14	6.78688e-15	4.20690e-15
1.00000e-05	5.20816e-15	2.33913e-15	1.19394e-15	6.78682e-16	4.20687e-16
1.00000e-06	5.20813e-16	2.33912e-16	1.19394e-16	6.78681e-17	4.20687e-17
1.00000e-07	5.20812e-17	2.33912e-17	1.19394e-17	6.78681e-18	4.20686e-18
1.00000e-08	5.20811e-18	2.33912e-18	1.19394e-18	6.78681e-19	4.20686e-19
1.00000e-09	5.20811e-19	2.33912e-19	1.19394e-19	6.78681e-20	4.20686e-20

Pa\K	3750.00	4000.00
1.00000e+08	0.00268302	0.00222626
1.00000e+07	0.000348871	0.000254151
1.00000e+06	3.36824e-05	2.37292e-05
100000.	3.14002e-06	2.19919e-06
10000.0	2.98634e-07	2.09078e-07
1000.00	2.90167e-08	2.03213e-08
100.000	2.85548e-09	2.00020e-09
10.0000	2.82838e-10	1.98144e-10
1.00000	2.81151e-11	1.96974e-11
0.100000	2.80069e-12	1.96223e-12
0.0100000	2.79398e-13	1.95761e-13
0.00100000	2.79249e-14	1.95660e-14
0.000100000	2.79231e-15	1.95648e-15

1.00000e-05 | 2.79229e-16 1.95647e-16
 1.00000e-06 | 2.79229e-17 1.95647e-17
 1.00000e-07 | 2.79229e-18 1.95647e-18
 1.00000e-08 | 2.79229e-19 1.95647e-19
 1.00000e-09 | 2.79229e-20 1.95647e-20

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	5.92591e-60	1.41281e-58	1.51000e-57	1.40448e-56	1.33591e-55
1.00000e+07	5.21664e-56	1.16855e-54	1.19950e-53	1.08124e-52	1.00251e-51
1.00000e+06	3.65523e-52	7.11509e-51	6.46925e-50	5.25492e-49	4.46413e-48
100000.	1.05252e-48	1.23231e-47	8.22887e-47	5.41092e-46	3.96372e-45
10000.0	4.23536e-46	2.31918e-45	1.01861e-44	5.27437e-44	3.45266e-43
1000.00	1.02276e-44	2.56819e-44	8.62377e-44	4.23048e-43	2.90729e-42
100.000	3.09665e-44	7.76664e-44	2.35151e-43	8.51135e-43	3.84859e-42
10.0000	2.20138e-43	4.22312e-43	8.47983e-43	2.03135e-42	5.98778e-42
1.00000	1.62829e-43	5.47473e-44	3.24468e-44	3.12882e-44	4.61079e-44
0.100000	9.12300e-47	2.85743e-47	6.87450e-47	2.13608e-46	8.22193e-46
0.0100000	7.91133e-47	1.78241e-46	4.13210e-46	1.12910e-45	3.83395e-45
0.00100000	1.95252e-46	1.66101e-46	1.93229e-46	3.10907e-46	6.90850e-46
0.000100000	6.56708e-48	1.34209e-48	8.14621e-49	9.15109e-49	1.63595e-48
1.00000e-05	8.77639e-51	1.66212e-51	1.10151e-51	1.37488e-51	2.73815e-51
1.00000e-06	1.99840e-53	5.67692e-54	4.80841e-54	7.25387e-54	1.75899e-53
1.00000e-07	1.76367e-55	7.63233e-56	8.39720e-56	1.60017e-55	5.21353e-55
1.00000e-08	5.78551e-57	3.58993e-57	4.83053e-57	1.07478e-56	4.05763e-56
1.00000e-09	4.52305e-58	3.15729e-58	4.45552e-58	1.02061e-57	3.94051e-57

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.41902e-54	1.84916e-53	3.34290e-52	9.43873e-51	4.24845e-49
1.00000e+07	1.04362e-50	1.34088e-49	2.40711e-48	6.79975e-47	3.07807e-45
1.00000e+06	4.32823e-47	5.26645e-46	9.10580e-45	2.51456e-43	1.12394e-41
100000.	3.48021e-44	3.99612e-43	6.73197e-42	1.83784e-40	8.08737e-39
10000.0	2.98170e-42	3.59346e-41	6.48776e-40	1.83464e-38	7.83542e-37
1000.00	2.74201e-41	3.58395e-40	6.70098e-39	1.83605e-37	7.27458e-36
100.000	2.31147e-41	1.99711e-40	2.76815e-39	6.98950e-38	3.50494e-36
10.0000	2.30035e-41	1.29891e-40	1.35257e-39	3.41925e-38	2.32361e-36
1.00000	1.06450e-43	4.51817e-43	5.57948e-42	3.30276e-40	7.66006e-38
0.100000	4.30485e-45	3.70751e-44	7.07068e-43	3.67074e-41	6.44425e-39
0.0100000	1.78609e-44	1.37837e-43	2.33905e-42	9.89638e-41	1.00082e-38
0.00100000	2.27022e-45	1.31033e-44	1.78310e-43	6.98032e-42	9.04858e-40
0.000100000	4.69947e-48	2.57189e-47	4.53568e-46	4.58412e-44	2.26746e-41
1.00000e-05	9.03525e-51	7.66742e-50	6.28092e-48	2.07912e-45	1.72190e-42
1.00000e-06	8.59314e-53	2.23354e-51	4.76912e-49	1.90631e-46	1.67180e-43
1.00000e-07	4.22207e-54	1.88643e-52	4.64143e-50	1.88980e-47	1.66684e-44
1.00000e-08	3.81534e-55	1.85359e-53	4.62889e-51	1.88816e-48	1.66635e-45
1.00000e-09	3.77466e-56	1.85031e-54	4.62764e-52	1.88800e-49	1.66630e-46

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.47533e-47	1.50473e-45	7.65519e-44	3.07047e-42	8.74407e-41
1.00000e+07	1.80475e-43	1.10219e-41	5.61841e-40	2.24849e-38	6.36652e-37
1.00000e+06	6.52832e-40	3.95892e-38	1.99895e-36	7.83302e-35	2.13841e-33
100000.	4.59180e-37	2.72753e-35	1.35581e-33	5.14366e-32	1.32770e-30
10000.0	4.16904e-35	2.32462e-33	1.12176e-31	4.09009e-30	9.89832e-29
1000.00	3.63687e-34	2.00586e-32	1.04326e-30	4.00805e-29	9.55619e-28
100.000	2.65484e-34	2.45691e-32	2.32333e-30	1.20523e-28	3.13584e-27
10.0000	2.50253e-34	3.57451e-32	6.15136e-30	3.72139e-28	9.78335e-27
1.00000	2.11697e-35	7.66801e-33	7.46720e-30	5.20421e-28	1.37054e-26
0.100000	1.87663e-36	8.61055e-34	7.53138e-30	5.41986e-28	1.42940e-26
0.0100000	1.40940e-36	3.08926e-34	7.57377e-30	5.46887e-28	1.44285e-26
0.00100000	1.99439e-37	7.98968e-35	7.59703e-30	5.49042e-28	1.44842e-26
0.000100000	1.15681e-38	8.45915e-36	7.59928e-30	5.49358e-28	1.44924e-26
1.00000e-05	1.04872e-39	8.46810e-37	7.59948e-30	5.49391e-28	1.44933e-26
1.00000e-06	1.03780e-40	8.46841e-38	7.59950e-30	5.49395e-28	1.44934e-26
1.00000e-07	1.03671e-41	8.46844e-39	7.59951e-30	5.49395e-28	1.44934e-26
1.00000e-08	1.03660e-42	8.46844e-40	7.59951e-30	5.49395e-28	1.44934e-26
1.00000e-09	1.03659e-43	8.46844e-41	7.59951e-30	5.49395e-28	1.44934e-26

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.85490e-39	3.05347e-38	4.07442e-37	4.50193e-36	4.22734e-35
1.00000e+07	1.34004e-35	2.18567e-34	2.88432e-33	3.14815e-32	2.91704e-31
1.00000e+06	4.30402e-32	6.67783e-31	8.33595e-30	8.57741e-29	7.47177e-28
100000.	2.50027e-29	3.60787e-28	4.16173e-27	3.94371e-26	3.15529e-25
10000.0	1.73309e-27	2.31482e-26	2.45940e-25	2.14130e-24	1.57096e-23
1000.00	1.61335e-26	2.05429e-25	2.06333e-24	1.68732e-23	1.15613e-22
100.000	5.49638e-26	7.11820e-25	7.19352e-24	5.87354e-23	3.99596e-22

10.0000	1.69385e-25	2.14636e-24	2.10701e-23	1.66243e-22	1.08809e-21
1.00000	2.34697e-25	2.92810e-24	2.82189e-23	2.18285e-22	1.39993e-21
0.100000	2.44558e-25	3.04585e-24	2.92894e-23	2.26027e-22	1.44608e-21
0.0100000	2.46874e-25	3.07458e-24	2.95627e-23	2.28103e-22	1.45910e-21
0.00100000	2.47792e-25	3.08549e-24	2.96619e-23	2.28822e-22	1.46339e-21
0.000100000	2.47927e-25	3.08706e-24	2.96759e-23	2.28922e-22	1.46397e-21
1.00000e-05	2.47941e-25	3.08723e-24	2.96774e-23	2.28932e-22	1.46403e-21
1.00000e-06	2.47942e-25	3.08724e-24	2.96775e-23	2.28933e-22	1.46404e-21
1.00000e-07	2.47942e-25	3.08725e-24	2.96776e-23	2.28933e-22	1.46404e-21
1.00000e-08	2.47942e-25	3.08725e-24	2.96776e-23	2.28933e-22	1.46404e-21
1.00000e-09	2.47943e-25	3.08725e-24	2.96776e-23	2.28933e-22	1.46404e-21

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	3.45219e-34	2.50001e-33	1.62814e-32	9.66065e-32	5.28407e-31
1.00000e+07	2.34804e-30	1.67380e-29	1.07208e-28	6.25311e-28	3.36102e-27
1.00000e+06	5.63926e-27	3.75927e-26	2.24837e-25	1.22376e-24	6.13836e-24
100000.	2.18203e-24	1.33019e-23	7.27022e-23	3.61705e-22	1.66049e-21
10000.0	9.94386e-23	5.54020e-22	2.76412e-21	1.25377e-20	5.23954e-20
1000.00	6.79828e-22	3.49974e-21	1.60416e-20	6.64212e-20	2.51532e-19
100.000	2.32244e-21	1.17674e-20	5.28652e-20	2.13592e-19	7.85477e-19
10.0000	6.06096e-21	2.93397e-20	1.25600e-19	4.82543e-19	1.68458e-18
1.00000	7.64054e-21	3.62524e-20	1.52211e-19	5.74000e-19	1.96873e-18
0.100000	7.87381e-21	3.72753e-20	1.56177e-19	5.87816e-19	2.01255e-18
0.0100000	7.94307e-21	3.75942e-20	1.57471e-19	5.92511e-19	2.02797e-18
0.00100000	7.96470e-21	3.76886e-20	1.57833e-19	5.93754e-19	2.03183e-18
0.000100000	7.96757e-21	3.77008e-20	1.57879e-19	5.93909e-19	2.03230e-18
1.00000e-05	7.96787e-21	3.77021e-20	1.57884e-19	5.93925e-19	2.03235e-18
1.00000e-06	7.96790e-21	3.77022e-20	1.57884e-19	5.93926e-19	2.03235e-18
1.00000e-07	7.96790e-21	3.77022e-20	1.57885e-19	5.93927e-19	2.03235e-18
1.00000e-08	7.96790e-21	3.77022e-20	1.57885e-19	5.93927e-19	2.03235e-18
1.00000e-09	7.96790e-21	3.77022e-20	1.57885e-19	5.93927e-19	2.03235e-18

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	2.69035e-30	1.28507e-29	5.79619e-29	2.21861e-22	1.01205e-27
1.00000e+07	1.68155e-26	7.89545e-26	3.50275e-25	7.17933e-19	5.92843e-24
1.00000e+06	2.86887e-23	1.26118e-22	5.25683e-22	4.50395e-16	7.96552e-21
100000.	7.12007e-21	2.88406e-20	1.11391e-19	2.93404e-14	1.48204e-18
10000.0	2.04144e-19	7.49420e-19	2.61622e-18	9.07877e-14	2.82253e-17
1000.00	8.80550e-19	2.87618e-18	8.83689e-18	1.95560e-14	7.13652e-17
100.000	2.65605e-18	8.33040e-18	2.44152e-17	2.38002e-15	1.75452e-16
10.0000	5.40079e-18	1.60459e-17	4.45232e-17	3.00389e-16	2.86562e-16
1.00000	6.20723e-18	1.81545e-17	4.96394e-17	1.20828e-16	3.11133e-16
0.100000	6.33510e-18	1.85013e-17	5.05196e-17	1.05845e-16	3.15899e-16
0.0100000	6.38142e-18	1.86297e-17	5.08503e-17	1.03559e-16	3.17709e-16
0.00100000	6.39239e-18	1.86585e-17	5.09208e-17	1.03230e-16	3.18059e-16
0.000100000	6.39371e-18	1.86619e-17	5.09290e-17	1.03199e-16	3.18098e-16
1.00000e-05	6.39385e-18	1.86622e-17	5.09299e-17	1.03196e-16	3.18103e-16
1.00000e-06	6.39386e-18	1.86623e-17	5.09300e-17	1.03196e-16	3.18103e-16
1.00000e-07	6.39386e-18	1.86623e-17	5.09300e-17	1.03196e-16	3.18103e-16
1.00000e-08	6.39386e-18	1.86623e-17	5.09300e-17	1.03196e-16	3.18103e-16
1.00000e-09	6.39386e-18	1.86623e-17	5.09300e-17	1.03196e-16	3.18103e-16

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	4.06338e-15	4.13511e-10	6.66041e-08	1.37239e-06	6.04405e-06
1.00000e+07	5.56923e-12	1.94478e-07	1.07076e-05	6.60333e-05	0.000148674
1.00000e+06	5.78869e-10	3.89988e-06	0.000132637	0.000466981	0.000764333
100000.	2.97404e-09	3.32093e-06	0.000124146	0.000553071	0.000974604
10000.0	9.71453e-10	4.56213e-07	2.86625e-05	0.000260446	0.000656835
1000.00	6.80208e-11	4.20441e-08	6.95962e-06	0.000111167	0.000342623
100.000	6.01779e-12	6.37701e-09	1.78064e-06	3.26817e-05	9.67264e-05
10.0000	8.50367e-13	9.61445e-10	2.65860e-07	4.63171e-06	1.28928e-05
1.00000	2.15756e-13	1.15260e-10	2.60535e-08	4.46232e-07	1.28639e-06
0.100000	1.45229e-13	2.42600e-11	2.83248e-09	4.64826e-08	1.55558e-07
0.0100000	1.38019e-13	1.52644e-11	6.31420e-10	8.88002e-09	4.74026e-08
0.00100000	1.37289e-13	1.43654e-11	4.14821e-10	5.23139e-09	3.68805e-08
0.000100000	1.37216e-13	1.42754e-11	3.93288e-10	4.87226e-09	3.58456e-08
1.00000e-05	1.37209e-13	1.42664e-11	3.91141e-10	4.83665e-09	3.57431e-08
1.00000e-06	1.37208e-13	1.42655e-11	3.90927e-10	4.83310e-09	3.57329e-08
1.00000e-07	1.37208e-13	1.42654e-11	3.90905e-10	4.83275e-09	3.57319e-08
1.00000e-08	1.37208e-13	1.42654e-11	3.90903e-10	4.83271e-09	3.57318e-08
1.00000e-09	1.37208e-13	1.42654e-11	3.90903e-10	4.83271e-09	3.57318e-08

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	1.10598e-05	1.50186e-05	1.89188e-05	2.12628e-05	2.24639e-05
1.00000e+07	0.000218380	0.000287870	0.000382534	0.000471045	0.000534946
1.00000e+06	0.00100454	0.00123540	0.00148405	0.00168999	0.00182885

100000.	0.00129784	0.00154332	0.00172573	0.00184076	0.00188436
10000.0	0.000958579	0.00109934	0.00112431	0.00107564	0.000980897
1000.00	0.000479259	0.000472591	0.000401758	0.000319731	0.000250834
100.000	0.000114144	9.28545e-05	6.76230e-05	5.08956e-05	4.62683e-05
10.0000	1.39697e-05	1.10014e-05	9.27974e-06	1.13241e-05	1.99099e-05
1.00000	1.52765e-06	1.73771e-06	3.11224e-06	7.33414e-06	1.73347e-05
0.100000	3.15176e-07	8.41114e-07	2.51939e-06	6.95241e-06	1.70889e-05
0.0100000	1.98216e-07	7.54415e-07	2.46203e-06	6.91546e-06	1.70651e-05
0.00100000	1.86798e-07	7.45937e-07	2.45642e-06	6.91184e-06	1.70628e-05
0.000100000	1.85673e-07	7.45101e-07	2.45586e-06	6.91148e-06	1.70626e-05
1.00000e-05	1.85561e-07	7.45018e-07	2.45581e-06	6.91145e-06	1.70625e-05
1.00000e-06	1.85550e-07	7.45009e-07	2.45580e-06	6.91144e-06	1.70625e-05
1.00000e-07	1.85549e-07	7.45009e-07	2.45580e-06	6.91144e-06	1.70625e-05
1.00000e-08	1.85549e-07	7.45009e-07	2.45580e-06	6.91144e-06	1.70625e-05
1.00000e-09	1.85549e-07	7.45009e-07	2.45580e-06	6.91144e-06	1.70625e-05

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	2.38624e-05	2.55583e-05	0.00491181	0.00563276	0.00630671
1.00000e+07	0.000585714	0.000627705	0.0141010	0.0153937	0.0153741
1.00000e+06	0.00191557	0.00195903	0.0215186	0.0198088	0.0166893
100000.	0.00186778	0.00180688	0.0158004	0.0118343	0.00847771
10000.0	0.000866873	0.000759926	0.00528411	0.00336459	0.00271133
1000.00	0.000206945	0.000195458	0.00101021	0.00104460	0.00154806
100.000	5.69957e-05	8.83503e-05	0.000346603	0.000750280	0.00141771
10.0000	3.95340e-05	7.67854e-05	0.000276546	0.000720642	0.00140488
1.00000	3.78624e-05	7.56925e-05	0.000269650	0.000717737	0.00140363
0.100000	3.77030e-05	7.55883e-05	0.000268971	0.000717451	0.00140351
0.0100000	3.76876e-05	7.55782e-05	0.000268904	0.000717423	0.00140349
0.00100000	3.76861e-05	7.55772e-05	0.000268898	0.000717420	0.00140349
0.000100000	3.76859e-05	7.55771e-05	0.000268897	0.000717420	0.00140349
1.00000e-05	3.76859e-05	7.55771e-05	0.000268897	0.000717420	0.00140349
1.00000e-06	3.76859e-05	7.55771e-05	0.000268897	0.000717420	0.00140349
1.00000e-07	3.76859e-05	7.55771e-05	0.000268897	0.000717420	0.00140349
1.00000e-08	3.76859e-05	7.55771e-05	0.000268897	0.000717420	0.00140349
1.00000e-09	3.76859e-05	7.55771e-05	0.000268897	0.000717420	0.00140349

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00675059	0.00684906	0.00659848	0.00609481	0.00546515
1.00000e+07	0.0140737	0.0120553	0.00992240	0.00803035	0.00649503
1.00000e+06	0.0131107	0.00997472	0.00763422	0.00603118	0.00495972
100000.	0.00615217	0.00490631	0.00433270	0.00405125	0.00384696
10000.0	0.00277406	0.00312081	0.00344909	0.00363334	0.00365700
1000.00	0.00223914	0.00288465	0.00334684	0.00358985	0.00363908
100.000	0.00218376	0.00286137	0.00333710	0.00358583	0.00363749
10.0000	0.00217838	0.00285913	0.00333618	0.00358546	0.00363734
1.00000	0.00217786	0.00285892	0.00333609	0.00358542	0.00363733
0.100000	0.00217781	0.00285889	0.00333608	0.00358542	0.00363732
0.0100000	0.00217780	0.00285889	0.00333608	0.00358542	0.00363732
0.00100000	0.00217780	0.00285889	0.00333608	0.00358542	0.00363732
0.000100000	0.00217780	0.00285889	0.00333608	0.00358542	0.00363732
1.00000e-05	0.00217780	0.00285889	0.00333608	0.00358542	0.00363732
1.00000e-06	0.00217780	0.00285889	0.00333608	0.00358542	0.00363732
1.00000e-07	0.00217780	0.00285889	0.00333608	0.00358542	0.00363732
1.00000e-08	0.00217780	0.00285889	0.00333608	0.00358542	0.00363732
1.00000e-09	0.00217780	0.00285889	0.00333608	0.00358542	0.00363732

Pa\K	3750.00	4000.00
1.00000e+08	0.00481260	0.00419959
1.00000e+07	0.00530163	0.00438853
1.00000e+06	0.00422278	0.00368204
100000.	0.00363232	0.00338752
10000.0	0.00355025	0.00335516
1000.00	0.00354336	0.00335296
100.000	0.00354280	0.00335281
10.0000	0.00354274	0.00335280
1.00000	0.00354274	0.00335280
0.100000	0.00354274	0.00335280
0.0100000	0.00354274	0.00335280
0.00100000	0.00354274	0.00335280
0.000100000	0.00354274	0.00335280
1.00000e-05	0.00354274	0.00335280
1.00000e-06	0.00354274	0.00335280
1.00000e-07	0.00354274	0.00335280
1.00000e-08	0.00354274	0.00335280
1.00000e-09	0.00354274	0.00335280

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	3.65947e-43	3.08226e-42	1.61672e-41	7.81088e-41	3.88407e-40
1.00000e+07	2.19117e-40	2.24581e-39	1.24652e-38	6.09256e-38	2.99450e-37
1.00000e+06	2.03301e-37	2.13808e-36	1.18963e-35	5.79364e-35	2.82918e-34
100000.	1.90893e-34	1.90727e-33	1.00980e-32	4.69195e-32	2.19172e-31
10000.0	1.17023e-31	8.00813e-31	3.16709e-30	1.16169e-29	4.45664e-29
1000.00	1.05023e-29	2.88831e-29	6.59205e-29	1.64308e-28	4.74253e-28
100.000	4.56052e-29	6.85158e-29	1.26769e-28	2.88985e-28	8.19869e-28
10.0000	5.81736e-29	5.50109e-29	6.68989e-29	1.07090e-28	2.28884e-28
1.00000	3.60444e-30	1.38122e-30	2.00563e-30	4.72862e-30	1.46325e-29
0.100000	2.35157e-30	6.06436e-30	1.49543e-29	4.09132e-29	1.33155e-28
0.0100000	2.38212e-29	6.16141e-29	1.51106e-28	4.10597e-28	1.32710e-27
0.00100000	2.27307e-28	5.40728e-28	1.23237e-27	3.13301e-27	9.51937e-27
0.000100000	1.19581e-27	1.73000e-27	2.68017e-27	4.97177e-27	1.15888e-26
1.00000e-05	4.67100e-28	2.06186e-28	1.69315e-28	2.11116e-28	3.77302e-28
1.00000e-06	6.64824e-30	2.03007e-30	1.57492e-30	2.01504e-30	3.93601e-30
1.00000e-07	7.49478e-32	3.08517e-32	2.98412e-32	4.71494e-32	1.21066e-31
1.00000e-08	2.51311e-33	1.46473e-33	1.72575e-33	3.17520e-33	9.41261e-33
1.00000e-09	1.96679e-34	1.28871e-34	1.59210e-34	3.01522e-34	9.13799e-34

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	2.14712e-39	1.44702e-38	1.34733e-37	1.96807e-36	4.78044e-35
1.00000e+07	1.60783e-36	1.03299e-35	8.89804e-35	1.12024e-33	1.95526e-32
1.00000e+06	1.50601e-33	9.57022e-33	8.12141e-32	9.95190e-31	1.60826e-29
100000.	1.11950e-30	6.86095e-30	5.67318e-29	6.88451e-28	1.10753e-26
10000.0	1.93390e-28	1.04785e-27	8.19534e-27	1.03938e-25	1.82759e-24
1000.00	1.69354e-27	8.54073e-27	7.78564e-26	1.45953e-24	3.59145e-23
100.000	3.11965e-27	1.89091e-26	2.49659e-25	7.23991e-24	2.26188e-22
10.0000	7.16157e-28	4.33856e-27	1.30347e-25	9.12847e-24	3.97447e-22
1.00000	6.24980e-29	4.82899e-28	7.04147e-26	8.39490e-24	4.15667e-22
0.100000	5.76111e-28	4.03627e-27	1.21137e-25	9.99278e-24	4.71530e-22
0.0100000	5.70369e-27	3.96740e-26	6.57998e-25	2.66127e-23	1.01291e-21
0.00100000	3.86114e-26	2.54989e-25	3.84102e-24	1.29476e-22	4.42549e-21
0.000100000	3.75401e-26	2.10012e-25	3.87496e-24	2.06877e-22	8.52993e-21
1.00000e-05	1.04486e-27	6.88275e-27	1.44143e-24	1.75744e-22	8.71618e-21
1.00000e-06	1.45661e-29	2.60163e-28	1.27052e-24	1.71832e-22	8.70797e-21
1.00000e-07	7.18742e-31	2.22225e-29	1.25681e-24	1.71460e-22	8.70701e-21
1.00000e-08	6.46955e-32	2.18528e-30	1.25547e-24	1.71423e-22	8.70691e-21
1.00000e-09	6.39741e-33	2.18159e-31	1.25534e-24	1.71419e-22	8.70691e-21

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.74813e-33	7.21050e-32	2.27592e-30	5.18231e-29	8.59079e-28
1.00000e+07	4.18681e-31	1.06969e-29	2.67676e-28	5.54215e-27	8.83413e-26
1.00000e+06	2.74958e-28	4.39596e-27	6.49093e-26	8.95813e-25	1.11456e-23
100000.	1.83645e-25	2.64239e-24	3.12539e-23	3.06575e-22	2.56536e-21
10000.0	3.18219e-23	4.54252e-22	5.07598e-21	4.49171e-20	3.23509e-19
1000.00	7.36927e-22	1.11065e-20	1.23612e-19	1.05457e-18	7.17552e-18
100.000	5.06490e-21	7.75526e-20	8.46089e-19	6.93288e-18	4.47192e-17
10.0000	9.92489e-21	1.55956e-19	1.68410e-18	1.34206e-17	8.34376e-17
1.00000	1.08479e-20	1.73198e-19	1.87819e-18	1.49518e-17	9.26528e-17
0.100000	1.22201e-20	1.95910e-19	2.14541e-18	1.73258e-17	1.09409e-16
0.0100000	2.49464e-20	4.02628e-19	4.55755e-18	3.85990e-17	2.57775e-16
0.00100000	1.03887e-19	1.63512e-18	1.81525e-17	1.50432e-16	9.77043e-16
0.000100000	2.10363e-19	3.29575e-18	3.55624e-17	2.83152e-16	1.75704e-15
1.00000e-05	2.27580e-19	3.63160e-18	3.93089e-17	3.11845e-16	1.92215e-15
1.00000e-06	2.29086e-19	3.66581e-18	3.97097e-17	3.14974e-16	1.94027e-15
1.00000e-07	2.29234e-19	3.66923e-18	3.97500e-17	3.15289e-16	1.94210e-15
1.00000e-08	2.29249e-19	3.66957e-18	3.97541e-17	3.15321e-16	1.94228e-15
1.00000e-09	2.29250e-19	3.66961e-18	3.97545e-17	3.15324e-16	1.94230e-15

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.08182e-26	1.07418e-25	8.69299e-25	5.89447e-24	3.42958e-23
1.00000e+07	1.09270e-24	1.07499e-23	8.65181e-23	5.84444e-22	3.39034e-21
1.00000e+06	1.19770e-22	1.08631e-21	8.31025e-21	5.41897e-20	3.05796e-19
100000.	1.88279e-20	1.23315e-19	7.25850e-19	3.84595e-18	1.83677e-17
10000.0	1.95250e-18	1.01371e-17	4.62875e-17	1.89247e-16	7.02745e-16
1000.00	4.03278e-17	1.92765e-16	8.02665e-16	2.96899e-15	9.91208e-15
100.000	2.36066e-16	1.05251e-15	4.06586e-15	1.38942e-14	4.27220e-14
10.0000	4.22652e-16	1.80497e-15	6.67758e-15	2.18732e-14	6.45731e-14
1.00000	4.67488e-16	1.98916e-15	7.33881e-15	2.40066e-14	7.09036e-14
0.100000	5.65316e-16	2.47667e-15	9.46400e-15	3.22680e-14	9.99793e-14
0.0100000	1.41465e-15	6.58851e-15	2.67054e-14	9.60919e-14	3.11797e-13
0.00100000	5.17446e-15	2.30691e-14	8.88310e-14	3.01660e-13	9.18974e-13
0.000100000	8.87012e-15	3.76864e-14	1.38444e-13	4.49399e-13	1.31196e-12
1.00000e-05	9.62652e-15	4.05614e-14	1.47796e-13	4.76074e-13	1.37996e-12

1.00000e-06	9.70953e-15	4.08759e-14	1.48815e-13	4.78963e-13	1.38728e-12
1.00000e-07	9.71790e-15	4.09076e-14	1.48917e-13	4.79254e-13	1.38802e-12
1.00000e-08	9.71874e-15	4.09108e-14	1.48928e-13	4.79283e-13	1.38810e-12
1.00000e-09	9.71883e-15	4.09111e-14	1.48929e-13	4.79286e-13	1.38810e-12

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.74693e-22	7.92274e-22	3.24500e-21	1.21487e-20	4.20016e-20
1.00000e+07	1.72237e-20	7.79129e-20	3.18276e-19	1.18824e-18	4.09564e-18
1.00000e+06	1.51675e-18	6.70825e-18	2.67963e-17	9.77594e-17	3.28886e-16
100000.	7.93144e-17	3.11223e-16	1.11669e-15	3.68867e-15	1.12934e-14
10000.0	2.39672e-15	7.57379e-15	2.23332e-14	6.18123e-14	1.61383e-13
1000.00	3.02586e-14	8.53678e-14	2.24557e-13	5.54792e-13	1.29535e-12
100.000	1.19867e-13	3.10490e-13	7.49792e-13	1.70201e-12	3.65723e-12
10.0000	1.74321e-13	4.35542e-13	1.01728e-12	2.23996e-12	4.68290e-12
1.00000	1.91922e-13	4.82061e-13	1.13536e-12	2.52963e-12	5.37209e-12
0.100000	2.85688e-13	7.61808e-13	1.91350e-12	4.56047e-12	1.03712e-11
0.0100000	9.23001e-13	2.52582e-12	6.42512e-12	1.53166e-11	3.44261e-11
0.00100000	2.54711e-12	6.49916e-12	1.54179e-11	3.42915e-11	7.20184e-11
0.000100000	3.49477e-12	8.59642e-12	1.97215e-11	4.25511e-11	8.69546e-11
1.00000e-05	3.65214e-12	8.93124e-12	2.03833e-11	4.37774e-11	8.91000e-11
1.00000e-06	3.66899e-12	8.96688e-12	2.04534e-11	4.39065e-11	8.93249e-11
1.00000e-07	3.67068e-12	8.97046e-12	2.04605e-11	4.39195e-11	8.93475e-11
1.00000e-08	3.67085e-12	8.97082e-12	2.04612e-11	4.39208e-11	8.93498e-11
1.00000e-09	3.67087e-12	8.97086e-12	2.04612e-11	4.39210e-11	8.93500e-11

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	1.35273e-19	4.08870e-19	1.16719e-18	3.30624e-13	8.18036e-18
1.00000e+07	1.31468e-17	3.95915e-17	1.12564e-16	7.43259e-12	7.81592e-16
1.00000e+06	1.02883e-15	3.01412e-15	8.32064e-15	5.56789e-11	5.41437e-14
100000.	3.22542e-14	8.64469e-14	2.18609e-13	5.78697e-10	1.19688e-12
10000.0	3.99222e-13	9.39436e-13	2.11048e-12	3.59827e-09	9.38874e-12
1000.00	2.87326e-12	6.08213e-12	1.23349e-11	4.85596e-09	4.52211e-11
100.000	7.48364e-12	1.46580e-11	2.76039e-11	4.48965e-09	8.83138e-11
10.0000	9.35180e-12	1.79322e-11	3.31641e-11	2.61764e-09	1.03310e-10
1.00000	1.09440e-11	2.15044e-11	4.09447e-11	3.64433e-10	1.37040e-10
0.100000	2.26023e-11	4.73592e-11	9.56524e-11	4.10824e-12	3.52238e-10
0.0100000	7.33431e-11	1.48798e-10	2.88664e-10	7.83350e-15	9.63699e-10
0.00100000	1.43700e-10	2.73858e-10	5.00776e-10	1.97687e-17	1.50232e-09
0.000100000	1.69311e-10	3.15724e-10	5.66335e-10	1.15008e-19	1.64590e-09
1.00000e-05	1.72878e-10	3.21391e-10	5.74975e-10	1.39388e-21	1.66395e-09
1.00000e-06	1.73250e-10	3.21980e-10	5.75870e-10	3.28199e-23	1.66581e-09
1.00000e-07	1.73287e-10	3.22039e-10	5.75960e-10	1.46859e-24	1.66600e-09
1.00000e-08	1.73291e-10	3.22045e-10	5.75969e-10	1.17444e-25	1.66602e-09
1.00000e-09	1.73291e-10	3.22045e-10	5.75970e-10	1.14166e-26	1.66602e-09

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	8.48022e-11	1.02586e-08	9.41585e-07	4.73815e-05	0.000616788
1.00000e+07	1.28361e-09	1.35146e-07	5.40226e-06	6.63870e-05	0.000346708
1.00000e+06	8.02845e-09	6.61248e-07	8.32449e-06	4.05536e-05	0.000125268
100000.	3.79598e-08	9.46325e-07	5.97013e-06	1.82983e-05	4.37162e-05
10000.0	8.10293e-08	8.44410e-07	4.03757e-06	1.00849e-05	2.20283e-05
1000.00	6.62799e-08	6.43611e-07	2.14441e-06	4.48697e-06	9.92202e-06
100.000	6.11601e-08	2.70368e-07	5.79777e-07	1.08010e-06	2.54223e-06
10.0000	1.75171e-08	3.82829e-08	5.74210e-08	1.11819e-07	3.09893e-07
1.00000	9.89868e-10	1.32716e-09	2.04827e-09	5.90557e-09	2.27985e-08
0.100000	7.89977e-12	1.35597e-11	4.18621e-11	2.41779e-10	1.41974e-09
0.0100000	2.67010e-14	1.13339e-13	8.94765e-13	1.02209e-11	9.09115e-11
0.00100000	1.45872e-16	1.45584e-15	2.46879e-14	5.03319e-13	6.38004e-12
0.000100000	1.56346e-18	2.96910e-17	9.10015e-16	2.93190e-14	4.88515e-13
1.00000e-05	2.98811e-20	9.12522e-19	4.34536e-17	1.96855e-15	4.01420e-14
1.00000e-06	9.74723e-22	4.12823e-20	2.64920e-18	1.50927e-16	3.52182e-15
1.00000e-07	5.33902e-23	2.72278e-21	2.05208e-19	1.31842e-17	3.29636e-16
1.00000e-08	4.58454e-24	2.46606e-22	1.93554e-20	1.27933e-18	3.24872e-17
1.00000e-09	4.50054e-25	2.43731e-23	1.92238e-21	1.27488e-19	3.24328e-18

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.00266166	0.00578932	0.00889791	0.0105216	0.0108630
1.00000e+07	0.00136717	0.00435555	0.00974708	0.0148071	0.0175739
1.00000e+06	0.000324509	0.000850983	0.00201265	0.00322983	0.00394219
100000.	8.66399e-05	0.000145149	0.000247838	0.000389559	0.000560981
10000.0	3.99797e-05	5.66347e-05	8.43538e-05	0.000129963	0.000185958
1000.00	1.82385e-05	2.42480e-05	3.08864e-05	3.91302e-05	4.59428e-05
100.000	4.64582e-06	5.55050e-06	5.90949e-06	6.23801e-06	6.29900e-06
10.0000	5.91585e-07	6.81588e-07	6.74438e-07	6.64756e-07	6.39188e-07
1.00000	5.09059e-08	6.30728e-08	6.39258e-08	6.32372e-08	6.07424e-08
0.100000	3.97094e-09	5.54786e-09	5.93125e-09	5.98752e-09	5.79675e-09

0.0100000	3.18316e-10	4.97618e-10	5.58386e-10	5.74096e-10	5.59784e-10
0.00100000	2.68273e-11	4.58100e-11	5.33712e-11	5.56532e-11	5.45641e-11
0.000100000	2.35989e-12	4.30664e-12	5.16131e-12	5.43946e-12	5.35500e-12
1.00000e-05	2.14783e-13	4.11620e-13	5.03691e-13	5.35007e-13	5.28298e-13
1.00000e-06	2.01770e-14	3.99507e-14	4.95697e-14	5.29267e-14	5.23690e-14
1.00000e-07	1.95593e-15	3.93714e-15	4.91903e-15	5.26579e-15	5.21564e-15
1.00000e-08	1.94299e-16	3.92523e-16	4.91141e-16	5.26052e-16	5.21157e-16
1.00000e-09	1.94151e-17	3.92388e-17	4.91055e-17	5.25993e-17	5.21112e-17

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.0109312	0.0111314	0.00239591	0.00239063	0.00241883
1.00000e+07	0.0188115	0.0195022	0.000714405	0.000854494	0.00107357
1.00000e+06	0.00439400	0.00488623	0.000350663	0.000537470	0.000646396
100000.	0.000771230	0.00102036	0.000199348	0.000231618	0.000199633
10000.0	0.000241715	0.000288158	5.68502e-05	4.61264e-05	3.02388e-05
1000.00	4.95686e-05	4.98747e-05	8.23953e-06	5.47249e-06	3.20818e-06
100.000	6.04609e-06	5.56431e-06	8.77557e-07	5.49204e-07	3.14009e-07
10.0000	5.93786e-07	5.34613e-07	8.69640e-08	5.38083e-08	3.06471e-08
1.00000	5.63330e-08	5.06422e-08	8.55540e-09	5.28611e-09	3.00961e-09
0.100000	5.39351e-09	4.85564e-09	8.44306e-10	5.21698e-10	2.97034e-10
0.0100000	5.22408e-10	4.70950e-10	8.36047e-11	5.16678e-11	2.94190e-11
0.00100000	5.10379e-11	4.60580e-11	8.29975e-12	5.12993e-12	2.92102e-12
0.000100000	5.01754e-12	4.53144e-12	8.25510e-13	5.10282e-13	2.90567e-13
1.00000e-05	4.95634e-13	4.47873e-13	8.22276e-14	5.08319e-14	2.89454e-14
1.00000e-06	4.91734e-14	4.44526e-14	8.20250e-15	5.07120e-15	2.88791e-15
1.00000e-07	4.89961e-15	4.43025e-15	8.19807e-16	5.06869e-16	2.88658e-16
1.00000e-08	4.89628e-16	4.42748e-16	8.19757e-17	5.06841e-17	2.88643e-17
1.00000e-09	4.89591e-17	4.42718e-17	8.19752e-18	5.06839e-18	2.88642e-18

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00246733	0.00251834	0.00254352	0.00251451	0.00241666
1.00000e+07	0.00126381	0.00132702	0.00124536	0.00106718	0.000855421
1.00000e+06	0.000617419	0.000495185	0.000353382	0.000235315	0.000151422
100000.	0.000139673	8.62613e-05	5.01363e-05	2.86318e-05	1.64923e-05
10000.0	1.74811e-05	9.52805e-06	5.12097e-06	2.78832e-06	1.56045e-06
1000.00	1.74903e-06	9.25238e-07	4.89733e-07	2.64484e-07	1.47303e-07
100.000	1.69463e-07	8.92629e-08	4.71498e-08	2.54310e-08	1.41482e-08
10.0000	1.65186e-08	8.69647e-09	4.59190e-09	2.47567e-09	1.37653e-09
1.00000	1.62198e-09	8.53826e-10	4.50759e-10	2.42955e-10	1.35034e-10
0.100000	1.60081e-10	8.42638e-11	4.44798e-11	2.39692e-11	1.33179e-11
0.0100000	1.58549e-11	8.34535e-12	4.40478e-12	2.37326e-12	1.31834e-12
0.00100000	1.57423e-12	8.28581e-13	4.37302e-13	2.35586e-13	1.30844e-13
0.000100000	1.56596e-13	8.24204e-14	4.34968e-14	2.34307e-14	1.30117e-14
1.00000e-05	1.55995e-14	8.21027e-15	4.33273e-15	2.33379e-15	1.29589e-15
1.00000e-06	1.55646e-15	8.19219e-16	4.32329e-16	2.32872e-16	1.29306e-16
1.00000e-07	1.55578e-16	8.18878e-17	4.32155e-17	2.32780e-17	1.29256e-17
1.00000e-08	1.55571e-17	8.18840e-18	4.32136e-18	2.32771e-18	1.29251e-18
1.00000e-09	1.55570e-18	8.18837e-19	4.32134e-19	2.32770e-19	1.29250e-19

Pa\K	3750.00	4000.00
1.00000e+08	0.00225363	0.00204270
1.00000e+07	0.000655090	0.000487575
1.00000e+06	9.64619e-05	6.18006e-05
100000.	9.71955e-06	5.90002e-06
10000.0	9.03407e-07	5.42065e-07
1000.00	8.49931e-08	5.08541e-08
100.000	8.15395e-09	4.87218e-09
10.0000	7.92745e-10	4.73237e-10
1.00000	7.77227e-11	4.63644e-11
0.100000	7.66233e-12	4.56841e-12
0.0100000	7.58253e-13	4.51902e-13
0.00100000	7.52383e-14	4.48268e-14
0.000100000	7.48072e-15	4.45600e-15
1.00000e-05	7.44937e-16	4.43660e-16
1.00000e-06	7.43290e-17	4.42658e-17
1.00000e-07	7.43005e-18	4.42487e-18
1.00000e-08	7.42974e-19	4.42469e-19
1.00000e-09	7.42971e-20	4.42467e-20

PAH9+H

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.59579e-42	2.98909e-41	1.88083e-40	8.13443e-40	2.96699e-39
1.00000e+07	1.59790e-38	3.00200e-37	1.89589e-36	8.23292e-36	3.01602e-35
1.00000e+06	1.65976e-34	3.25320e-33	2.13286e-32	9.58264e-32	3.62313e-31
100000.	2.20606e-30	4.83387e-29	3.32837e-28	1.53102e-27	5.85020e-27

10000.0	3.27925e-26	6.11603e-25	3.71400e-24	1.54642e-23	5.43710e-23
1000.00	2.12244e-22	2.58267e-21	1.18615e-20	4.01669e-20	1.20122e-19
100.000	2.40977e-19	1.54471e-18	5.01250e-18	1.35711e-17	3.48375e-17
10.0000	3.66671e-17	1.43915e-16	3.64018e-16	8.42030e-16	1.95630e-15
1.00000	1.25099e-15	3.22295e-15	6.50981e-15	1.31895e-14	2.87888e-14
0.100000	1.06158e-14	1.72512e-14	2.65478e-14	4.66413e-14	1.01439e-13
0.0100000	1.19582e-14	9.02907e-15	1.04040e-14	2.20147e-14	7.92356e-14
0.00100000	1.63476e-15	1.03269e-15	1.57418e-15	1.03351e-14	6.55599e-14
0.000100000	1.62760e-16	1.06192e-16	5.62955e-16	8.96915e-15	6.39169e-14
1.00000e-05	1.65579e-17	1.41017e-17	4.62284e-16	8.83358e-15	6.37573e-14
1.00000e-06	3.93911e-18	8.45244e-18	4.58260e-16	8.83172e-15	6.37695e-14
1.00000e-07	5.25667e-18	8.18355e-18	4.55785e-16	8.82700e-15	6.37686e-14
1.00000e-08	1.29896e-18	3.91794e-18	4.50506e-16	8.81973e-15	6.37599e-14
1.00000e-09	1.40351e-19	3.16495e-18	4.49704e-16	8.81868e-15	6.37586e-14

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08	9.97119e-39	3.22396e-38	1.02483e-37	3.24064e-37	1.02655e-36
1.00000e+07	1.01832e-34	3.30923e-34	1.05797e-33	3.36786e-33	1.07535e-32
1.00000e+06	1.26041e-30	4.21712e-30	1.38863e-29	4.55810e-29	1.50260e-28
100000.	2.04039e-26	6.80230e-26	2.21841e-25	7.16294e-25	2.30463e-24
10000.0	1.76109e-22	5.46626e-22	1.65369e-21	4.91214e-21	1.43790e-20
1000.00	3.40136e-19	9.33740e-19	2.49538e-18	6.49139e-18	1.64571e-17
100.000	8.82543e-17	2.20321e-16	5.35074e-16	1.25504e-15	2.84406e-15
10.0000	4.64770e-15	1.09946e-14	2.51448e-14	5.48945e-14	1.14476e-13
1.00000	6.69092e-14	1.55228e-13	3.42652e-13	7.09394e-13	1.38313e-12
0.100000	2.50121e-13	6.00468e-13	1.31338e-12	2.60756e-12	4.77431e-12
0.0100000	2.72348e-13	7.52949e-13	1.72448e-12	3.43765e-12	6.20404e-12
0.00100000	2.63564e-13	7.62893e-13	1.77211e-12	3.54434e-12	6.39142e-12
0.000100000	2.62394e-13	7.63685e-13	1.77688e-12	3.55531e-12	6.41085e-12
1.00000e-05	2.62295e-13	7.63821e-13	1.77751e-12	3.55679e-12	6.41367e-12
1.00000e-06	2.62361e-13	7.64031e-13	1.77803e-12	3.55788e-12	6.41571e-12
1.00000e-07	2.62386e-13	7.64129e-13	1.77827e-12	3.55835e-12	6.41651e-12
1.00000e-08	2.62380e-13	7.64133e-13	1.77829e-12	3.55841e-12	6.41662e-12
1.00000e-09	2.62379e-13	7.64133e-13	1.77830e-12	3.55841e-12	6.41663e-12

Pa\K | 120.000 130.000 140.000 150.000 160.000

1.00000e+08	3.27071e-36	1.04971e-35	3.39178e-35	1.10124e-34	3.58324e-34
1.00000e+07	3.45871e-32	1.12250e-31	3.67455e-31	1.21108e-30	4.00824e-30
1.00000e+06	4.99332e-28	1.67389e-27	5.65125e-27	1.91551e-26	6.49381e-26
100000.	7.41048e-24	2.38208e-23	7.64211e-23	2.43999e-22	7.72732e-22
10000.0	4.15552e-20	1.18615e-19	3.34168e-19	9.27893e-19	2.53525e-18
1000.00	4.07692e-17	9.89711e-17	2.35970e-16	5.53336e-16	1.27704e-15
100.000	6.25373e-15	1.34110e-14	2.81652e-14	5.80892e-14	1.17834e-13
10.0000	2.29504e-13	4.45599e-13	8.43099e-13	1.56161e-12	2.84006e-12
1.00000	2.56495e-12	4.56940e-12	7.88329e-12	1.32492e-11	2.17804e-11
0.100000	8.20788e-12	1.34537e-11	2.12765e-11	3.27504e-11	4.93771e-11
0.0100000	1.04304e-11	1.66723e-11	2.57063e-11	3.86230e-11	5.69464e-11
0.00100000	1.07194e-11	1.70832e-11	2.62594e-11	3.93397e-11	5.78502e-11
0.000100000	1.07495e-11	1.71263e-11	2.63181e-11	3.94175e-11	5.79521e-11
1.00000e-05	1.07544e-11	1.71344e-11	2.63312e-11	3.94385e-11	5.79851e-11
1.00000e-06	1.07579e-11	1.71401e-11	2.63400e-11	3.94514e-11	5.80033e-11
1.00000e-07	1.07592e-11	1.71419e-11	2.63424e-11	3.94545e-11	5.80072e-11
1.00000e-08	1.07593e-11	1.71421e-11	2.63427e-11	3.94549e-11	5.80077e-11
1.00000e-09	1.07594e-11	1.71421e-11	2.63427e-11	3.94549e-11	5.80077e-11

Pa\K | 170.000 180.000 190.000 200.000 210.000

1.00000e+08	1.16502e-33	3.77413e-33	1.21504e-32	3.87854e-32	1.22522e-31
1.00000e+07	1.32826e-29	4.39452e-29	1.44769e-28	4.73758e-28	1.53701e-27
1.00000e+06	2.19330e-25	7.35370e-25	2.43982e-24	7.98941e-24	2.57681e-23
100000.	2.41923e-21	7.46464e-21	2.26413e-20	6.73703e-20	1.96369e-19
10000.0	6.80528e-18	1.79229e-17	4.62692e-17	1.17018e-16	2.89869e-16
1000.00	2.90130e-15	6.48797e-15	1.42773e-14	3.09069e-14	6.57944e-14
100.000	2.35244e-13	4.62245e-13	8.93837e-13	1.70046e-12	3.18199e-12
10.0000	5.08069e-12	8.94876e-12	1.55244e-11	2.65276e-11	4.46431e-11
1.00000	3.51159e-11	5.56239e-11	8.66671e-11	1.32941e-10	2.00898e-10
0.100000	7.32387e-11	1.07194e-10	1.55133e-10	2.22295e-10	3.15682e-10
0.0100000	8.27856e-11	1.19032e-10	1.69608e-10	2.39793e-10	3.36624e-10
0.00100000	8.39035e-11	1.20395e-10	1.71256e-10	2.41772e-10	3.38998e-10
0.000100000	8.40371e-11	1.20572e-10	1.71495e-10	2.42101e-10	3.39457e-10
1.00000e-05	8.40881e-11	1.20649e-10	1.71608e-10	2.42263e-10	3.39682e-10
1.00000e-06	8.41129e-11	1.20682e-10	1.71650e-10	2.42317e-10	3.39748e-10
1.00000e-07	8.41178e-11	1.20688e-10	1.71657e-10	2.42325e-10	3.39758e-10
1.00000e-08	8.41183e-11	1.20689e-10	1.71658e-10	2.42326e-10	3.39759e-10
1.00000e-09	8.41184e-11	1.20689e-10	1.71658e-10	2.42326e-10	3.39759e-10

Pa\K | 220.000 230.000 240.000 250.000 260.000

1.00000e+08	3.82432e-31	1.17806e-30	3.57825e-30	1.07108e-29	3.15867e-29
1.00000e+07	4.93549e-27	1.56664e-26	4.91151e-26	1.52003e-25	4.64348e-25
1.00000e+06	8.17327e-23	2.54691e-22	7.79292e-22	2.34116e-21	6.90859e-21
100000.	5.60160e-19	1.56322e-18	4.26826e-18	1.14100e-17	2.98973e-17
10000.0	7.03393e-16	1.67276e-15	3.90149e-15	8.93355e-15	2.01083e-14
1000.00	1.37690e-13	2.83183e-13	5.72263e-13	1.13616e-12	2.21615e-12
100.000	5.85585e-12	1.05978e-11	1.88626e-11	3.30210e-11	5.68676e-11
10.0000	7.39765e-11	1.20676e-10	1.93761e-10	3.06187e-10	4.76194e-10
1.00000	2.99281e-10	4.39778e-10	6.37815e-10	9.13529e-10	1.29292e-09
0.100000	4.44565e-10	6.21117e-10	8.61197e-10	1.18529e-09	1.61966e-09
0.0100000	4.69413e-10	6.50374e-10	8.95411e-10	1.22507e-09	1.66567e-09
0.00100000	4.72264e-10	6.53818e-10	8.99606e-10	1.23023e-09	1.67211e-09
0.000100000	4.72908e-10	6.54721e-10	9.00866e-10	1.23197e-09	1.67447e-09
1.00000e-05	4.73214e-10	6.55127e-10	9.01390e-10	1.23263e-09	1.67529e-09
1.00000e-06	4.73294e-10	6.55221e-10	9.01501e-10	1.23276e-09	1.67543e-09
1.00000e-07	4.73305e-10	6.55233e-10	9.01514e-10	1.23277e-09	1.67545e-09
1.00000e-08	4.73306e-10	6.55235e-10	9.01516e-10	1.23278e-09	1.67545e-09
1.00000e-09	4.73306e-10	6.55235e-10	9.01516e-10	1.23278e-09	1.67545e-09

Pa\K | 270.000 280.000 290.000 300.000 310.000

1.00000e+08	9.17726e-29	2.62746e-28	7.41519e-28	6.67905e-23	5.66726e-27
1.00000e+07	1.40064e-24	4.17448e-24	1.23057e-23	1.74036e-18	1.03959e-22
1.00000e+06	2.00441e-20	5.72620e-20	1.61400e-19	9.98057e-15	1.24397e-18
100000.	7.69238e-17	1.94818e-16	4.87221e-16	5.71861e-12	2.98309e-15
10000.0	4.45623e-14	9.74153e-14	2.10537e-13	1.90505e-10	9.60386e-13
1000.00	4.24749e-12	8.00130e-12	1.48205e-11	7.11572e-10	4.84510e-11
100.000	9.63653e-11	1.60719e-10	2.63892e-10	2.00396e-09	6.79654e-10
10.0000	7.28957e-10	1.09857e-09	1.63040e-09	4.44160e-09	3.43496e-09
1.00000	1.80923e-09	2.50457e-09	3.43179e-09	5.41457e-09	6.26068e-09
0.100000	2.19770e-09	2.96156e-09	3.96402e-09	5.52705e-09	6.96276e-09
0.0100000	2.25072e-09	3.02249e-09	4.03398e-09	5.54527e-09	7.05524e-09
0.00100000	2.25884e-09	3.03284e-09	4.04725e-09	5.55431e-09	7.07710e-09
0.000100000	2.26199e-09	3.03695e-09	4.05253e-09	5.55749e-09	7.08533e-09
1.00000e-05	2.26298e-09	3.03814e-09	4.05392e-09	5.55800e-09	7.08717e-09
1.00000e-06	2.26315e-09	3.03833e-09	4.05413e-09	5.55805e-09	7.08742e-09
1.00000e-07	2.26317e-09	3.03835e-09	4.05415e-09	5.55806e-09	7.08744e-09
1.00000e-08	2.26317e-09	3.03835e-09	4.05415e-09	5.55806e-09	7.08745e-09
1.00000e-09	2.26317e-09	3.03835e-09	4.05415e-09	5.55806e-09	7.08745e-09

Pa\K | 400.000 500.000 600.000 700.000 800.000

1.00000e+08	4.72337e-15	7.85080e-10	1.38319e-07	3.01666e-06	1.48859e-05
1.00000e+07	2.77786e-11	8.78997e-07	4.69985e-05	0.000289806	0.000648071
1.00000e+06	9.20680e-09	2.75682e-05	0.000700070	0.00231807	0.00368910
100000.	1.71471e-07	5.87440e-05	0.000962324	0.00320493	0.00515180
10000.0	2.74201e-07	2.56368e-05	0.000397559	0.00194462	0.00401386
1000.00	1.30000e-07	6.87905e-06	0.000136939	0.000950456	0.00226073
100.000	8.78467e-08	2.13186e-06	3.96205e-05	0.000292730	0.000665627
10.0000	7.49242e-08	7.74121e-07	7.98994e-06	4.89021e-05	0.000109855
1.00000	6.92041e-08	5.26714e-07	2.94448e-06	1.24140e-05	3.27625e-05
0.100000	6.85117e-08	5.01464e-07	2.45686e-06	8.92668e-06	2.52590e-05
0.0100000	6.86108e-08	4.99558e-07	2.41136e-06	8.59875e-06	2.45420e-05
0.00100000	6.86741e-08	4.99568e-07	2.40694e-06	8.56693e-06	2.44722e-05
0.000100000	6.86864e-08	4.99563e-07	2.40650e-06	8.56379e-06	2.44654e-05
1.00000e-05	6.86879e-08	4.99563e-07	2.40646e-06	8.56348e-06	2.44647e-05
1.00000e-06	6.86880e-08	4.99563e-07	2.40646e-06	8.56345e-06	2.44646e-05
1.00000e-07	6.86880e-08	4.99563e-07	2.40646e-06	8.56345e-06	2.44646e-05
1.00000e-08	6.86880e-08	4.99563e-07	2.40646e-06	8.56345e-06	2.44646e-05
1.00000e-09	6.86880e-08	4.99563e-07	2.40646e-06	8.56345e-06	2.44646e-05

Pa\K | 900.000 1000.00 1100.00 1200.00 1300.00

1.00000e+08	3.65877e-05	6.57939e-05	9.82738e-05	0.000125413	0.000146663
1.00000e+07	0.000953759	0.00129456	0.00178987	0.00226862	0.00263600
1.00000e+06	0.00476392	0.00583462	0.00704826	0.00807766	0.00878903
100000.	0.00662116	0.00778477	0.00870734	0.00932577	0.00961764
10000.0	0.00544509	0.00610452	0.00624365	0.00606597	0.00571981
1000.00	0.00288383	0.00279958	0.00246420	0.00215443	0.00199999
100.000	0.000738274	0.000653940	0.000613363	0.000688320	0.000903580
10.0000	0.000141629	0.000186334	0.000286836	0.000470321	0.000760979
1.00000	6.74466e-05	0.000133377	0.000252304	0.000448340	0.000747060
0.100000	6.02237e-05	0.000128256	0.000248988	0.000446240	0.000745734
0.0100000	5.95274e-05	0.000127761	0.000248667	0.000446037	0.000745606
0.00100000	5.94594e-05	0.000127712	0.000248636	0.000446017	0.000745593
0.000100000	5.94527e-05	0.000127708	0.000248633	0.000446015	0.000745592
1.00000e-05	5.94521e-05	0.000127707	0.000248632	0.000446015	0.000745592
1.00000e-06	5.94520e-05	0.000127707	0.000248632	0.000446015	0.000745592
1.00000e-07	5.94520e-05	0.000127707	0.000248632	0.000446015	0.000745592
1.00000e-08	5.94520e-05	0.000127707	0.000248632	0.000446015	0.000745592

1.00000e-09 | 5.94520e-05 0.000127707 0.000248632 0.000446015 0.000745592

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.000164556	0.000167916	0.00372147	0.00454362	0.00522861
1.00000e+07	0.00295615	0.00324249	0.0105709	0.0129737	0.0140984
1.00000e+06	0.00927548	0.00960375	0.0173826	0.0186062	0.0179963
100000.	0.00965813	0.00954263	0.0151518	0.0146224	0.0136373
10000.0	0.00535336	0.00509917	0.00751180	0.00808889	0.00898082
1000.00	0.00205922	0.00235117	0.00404635	0.00603107	0.00787624
100.000	0.00127308	0.00180506	0.00349310	0.00575931	0.00774704
10.0000	0.00118090	0.00174599	0.00343482	0.00573206	0.00773439
1.00000	0.00117210	0.00174045	0.00342912	0.00572942	0.00773317
0.100000	0.00117126	0.00173992	0.00342856	0.00572916	0.00773305
0.0100000	0.00117118	0.00173987	0.00342851	0.00572914	0.00773304
0.00100000	0.00117117	0.00173987	0.00342850	0.00572913	0.00773304
0.000100000	0.00117117	0.00173987	0.00342850	0.00572913	0.00773304
1.00000e-05	0.00117117	0.00173987	0.00342850	0.00572913	0.00773304
1.00000e-06	0.00117117	0.00173987	0.00342850	0.00572913	0.00773304
1.00000e-07	0.00117117	0.00173987	0.00342850	0.00572913	0.00773304
1.00000e-08	0.00117117	0.00173987	0.00342850	0.00572913	0.00773304
1.00000e-09	0.00117117	0.00173987	0.00342850	0.00572913	0.00773304

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00565494	0.00575982	0.00555270	0.00512354	0.00458700
1.00000e+07	0.0132217	0.0113682	0.00937308	0.00762612	0.00621942
1.00000e+06	0.0151354	0.0121795	0.00982152	0.00802599	0.00662965
100000.	0.0118032	0.0102592	0.00895866	0.00775566	0.00662453
10000.0	0.00936833	0.00921999	0.00858096	0.00764589	0.00660938
1000.00	0.00891973	0.00906434	0.00853400	0.00763539	0.00660968
100.000	0.00887217	0.00904916	0.00852989	0.00763472	0.00660993
10.0000	0.00886763	0.00904775	0.00852953	0.00763468	0.00660997
1.00000	0.00886719	0.00904762	0.00852950	0.00763468	0.00660998
0.100000	0.00886715	0.00904761	0.00852950	0.00763468	0.00660998
0.0100000	0.00886715	0.00904761	0.00852950	0.00763468	0.00660998
0.00100000	0.00886715	0.00904761	0.00852950	0.00763468	0.00660998
0.000100000	0.00886715	0.00904761	0.00852950	0.00763468	0.00660998
1.00000e-05	0.00886715	0.00904761	0.00852950	0.00763468	0.00660998
1.00000e-06	0.00886715	0.00904761	0.00852950	0.00763468	0.00660998
1.00000e-07	0.00886715	0.00904761	0.00852950	0.00763468	0.00660998
1.00000e-08	0.00886715	0.00904761	0.00852950	0.00763468	0.00660998
1.00000e-09	0.00886715	0.00904761	0.00852950	0.00763468	0.00660998

Pa\K	3750.00	4000.00
1.00000e+08	0.00403452	0.00352005
1.00000e+07	0.00511751	0.00425450
1.00000e+06	0.00550769	0.00458692
100000.	0.00559021	0.00467785
10000.0	0.00560206	0.00469325
1000.00	0.00560471	0.00469576
100.000	0.00560510	0.00469609
10.0000	0.00560515	0.00469612
1.00000	0.00560515	0.00469613
0.100000	0.00560515	0.00469613
0.0100000	0.00560515	0.00469613
0.00100000	0.00560515	0.00469613
0.000100000	0.00560515	0.00469613
1.00000e-05	0.00560515	0.00469613
1.00000e-06	0.00560515	0.00469613
1.00000e-07	0.00560515	0.00469613
1.00000e-08	0.00560515	0.00469613
1.00000e-09	0.00560515	0.00469613

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.17641e-59	2.64247e-58	2.43879e-57	1.82728e-56	1.33034e-55
1.00000e+07	1.15663e-55	2.55426e-54	2.31946e-53	1.71070e-52	1.22633e-51
1.00000e+06	9.86040e-52	1.88861e-50	1.51741e-49	1.00405e-48	6.52488e-48
100000.	3.52554e-48	4.10476e-47	2.41016e-46	1.26563e-45	6.83896e-45
10000.0	1.89255e-45	1.01487e-44	3.64833e-44	1.34105e-43	5.50072e-43
1000.00	8.35336e-44	6.30436e-43	3.25265e-42	1.47893e-41	6.85202e-41
100.000	2.89607e-41	1.89624e-40	8.05062e-40	3.30136e-39	1.48136e-38
10.0000	5.20573e-39	2.95490e-38	1.13855e-37	4.33360e-37	1.84098e-36
1.00000	5.55066e-37	2.89912e-36	1.08209e-35	4.01344e-35	1.66689e-34
0.100000	5.44561e-35	2.83311e-34	1.04465e-33	3.82277e-33	1.57014e-32
0.0100000	5.13644e-33	2.52360e-32	8.82909e-32	3.07807e-31	1.20870e-30

0.00100000	3.18158e-31	1.09461e-30	2.89598e-30	7.99961e-30	2.56981e-29
0.00100000	2.80094e-30	3.23575e-30	4.23198e-30	6.98087e-30	1.50089e-29
1.00000e-05	3.62478e-31	1.16800e-31	8.53129e-32	1.01442e-31	1.78820e-31
1.00000e-06	2.47035e-33	6.98401e-34	5.33276e-34	6.88098e-34	1.37485e-33
1.00000e-07	2.23916e-35	9.00859e-36	8.79887e-36	1.42611e-35	3.80596e-35
1.00000e-08	6.99003e-37	4.09543e-37	4.92970e-37	9.36553e-37	2.90438e-36
1.00000e-09	5.41051e-38	3.58270e-38	4.53010e-38	8.86706e-38	2.81391e-37

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.04011e-54	9.66464e-54	1.21464e-52	2.34586e-51	7.08433e-50
1.00000e+07	9.44309e-51	8.64690e-50	1.07277e-48	2.05388e-47	6.18885e-46
1.00000e+06	4.59490e-47	3.88401e-46	4.51421e-45	8.32280e-44	2.51337e-42
100000.	4.13206e-44	3.07684e-43	3.25684e-42	5.78997e-41	1.83942e-39
10000.0	2.67169e-42	1.68495e-41	1.63158e-40	3.07831e-39	1.32070e-37
1000.00	3.61865e-40	2.54094e-39	3.02792e-38	7.36997e-37	2.96924e-35
100.000	8.20785e-38	6.74342e-37	1.05459e-35	3.40146e-34	1.58032e-32
10.0000	9.88656e-36	8.14326e-35	1.35614e-33	5.00083e-32	2.58871e-30
1.00000	8.83123e-34	7.33025e-33	1.27303e-31	5.00435e-30	2.70457e-28
0.100000	8.27042e-32	6.87555e-31	1.20235e-29	4.75723e-28	2.56299e-26
0.0100000	6.10601e-30	4.88287e-29	8.24813e-28	3.18690e-26	1.63734e-24
0.00100000	1.08760e-28	7.44135e-28	1.12096e-26	4.42117e-25	2.26942e-23
0.000100000	4.60237e-29	2.48311e-28	3.98229e-27	4.57250e-25	3.73477e-23
1.00000e-05	4.98043e-31	3.34129e-30	1.97753e-28	3.60085e-25	3.71048e-23
1.00000e-06	5.31019e-33	1.03274e-31	1.69766e-29	3.51237e-25	3.70451e-23
1.00000e-07	2.46128e-34	8.62457e-33	1.67228e-30	3.50382e-25	3.70390e-23
1.00000e-08	2.20394e-35	8.46813e-34	1.66981e-31	3.50296e-25	3.70384e-23
1.00000e-09	2.17872e-36	8.45300e-35	1.66957e-32	3.50288e-25	3.70383e-23

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.64849e-48	9.58244e-47	2.87209e-45	6.99974e-44	1.36385e-42
1.00000e+07	2.31369e-44	8.35067e-43	2.48641e-41	5.99635e-40	1.15232e-38
1.00000e+06	9.53279e-41	3.43967e-39	1.00153e-37	2.32039e-36	4.23035e-35
100000.	7.47194e-38	2.76978e-36	7.89673e-35	1.73241e-33	2.92932e-32
10000.0	6.95237e-36	2.87918e-34	8.27296e-33	1.73301e-31	2.72246e-30
1000.00	1.18089e-33	3.74447e-32	8.88333e-31	1.61766e-29	2.31152e-28
100.000	6.18627e-31	1.79152e-29	3.78490e-28	6.07038e-27	7.65391e-26
10.0000	1.03464e-28	2.92912e-27	5.93468e-26	9.04973e-25	1.08316e-23
1.00000	1.09299e-26	3.08609e-25	6.19491e-24	9.31663e-23	1.09574e-21
0.100000	1.02115e-24	2.81371e-23	5.45678e-22	7.82537e-21	8.66044e-20
0.0100000	6.04164e-23	1.50510e-21	2.59199e-20	3.24425e-19	3.09217e-18
0.00100000	7.76104e-22	1.72452e-20	2.59715e-19	2.81266e-18	2.30976e-17
0.000100000	1.43859e-21	3.26130e-20	4.81180e-19	5.01440e-18	3.93244e-17
1.00000e-05	1.50873e-21	3.48506e-20	5.16716e-19	5.37758e-18	4.19952e-17
1.00000e-06	1.51508e-21	3.50746e-20	5.20395e-19	5.41569e-18	4.22769e-17
1.00000e-07	1.51570e-21	3.50971e-20	5.20764e-19	5.41952e-18	4.23052e-17
1.00000e-08	1.51577e-21	3.50993e-20	5.20801e-19	5.41990e-18	4.23081e-17
1.00000e-09	1.51577e-21	3.50995e-20	5.20804e-19	5.41994e-18	4.23083e-17

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.17376e-41	2.89663e-40	3.32271e-39	3.31869e-38	2.93058e-37
1.00000e+07	1.80626e-37	2.36098e-36	2.64830e-35	2.57936e-34	2.21515e-33
1.00000e+06	6.23536e-34	7.61434e-33	7.92546e-32	7.13036e-31	5.63628e-30
100000.	3.95134e-31	4.37629e-30	4.09560e-29	3.29581e-28	2.32146e-27
10000.0	3.36275e-29	3.38574e-28	2.86774e-27	2.08830e-26	1.33364e-25
1000.00	2.68110e-27	2.59639e-26	2.15374e-25	1.55764e-24	9.98007e-24
100.000	7.86774e-25	6.79271e-24	5.05270e-23	3.30054e-22	1.92436e-21
10.0000	1.05833e-22	8.71021e-22	6.19560e-21	3.88228e-20	2.17673e-19
1.00000	1.04758e-20	8.39147e-20	5.76838e-19	3.46458e-18	1.84456e-17
0.100000	7.67805e-19	5.61856e-18	3.47670e-17	1.85541e-16	8.68117e-16
0.0100000	2.33607e-17	1.44603e-16	7.53685e-16	3.38310e-15	1.33258e-14
0.00100000	1.50327e-16	8.03825e-16	3.63622e-15	1.42520e-14	4.93590e-14
0.000100000	2.43836e-16	1.24275e-15	5.36902e-15	2.01547e-14	6.70706e-14
1.00000e-05	2.58972e-16	1.31211e-15	5.63544e-15	2.10365e-14	6.96411e-14
1.00000e-06	2.60570e-16	1.31942e-15	5.66347e-15	2.11289e-14	6.99099e-14
1.00000e-07	2.60731e-16	1.32016e-15	5.66628e-15	2.11382e-14	6.99368e-14
1.00000e-08	2.60747e-16	1.32023e-15	5.66657e-15	2.11392e-14	6.99395e-14
1.00000e-09	2.60749e-16	1.32024e-15	5.66659e-15	2.11392e-14	6.99398e-14

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.32276e-36	1.67917e-35	1.11259e-34	6.78917e-34	3.84293e-33
1.00000e+07	1.70301e-32	1.19020e-31	7.60787e-31	4.47556e-30	2.44196e-29
1.00000e+06	3.97579e-29	2.53883e-28	1.48029e-27	7.94822e-27	3.96443e-26
100000.	1.45446e-26	8.21926e-26	4.23579e-25	2.01202e-24	8.90033e-24
10000.0	7.59860e-25	3.91931e-24	1.85198e-23	8.10301e-23	3.31433e-22
1000.00	5.74321e-23	3.00261e-22	1.43894e-21	6.37047e-21	2.62313e-20
100.000	1.01516e-20	4.89975e-20	2.18292e-19	9.04370e-19	3.50565e-18

10.0000	1.10573e-18	5.13873e-18	2.20153e-17	8.74899e-17	3.24154e-16
1.00000	8.80652e-17	3.80609e-16	1.50101e-15	5.43923e-15	1.82233e-14
0.100000	3.61086e-15	1.35111e-14	4.59488e-14	1.43303e-13	4.13096e-13
0.0100000	4.67889e-14	1.48399e-13	4.29992e-13	1.14933e-12	2.85774e-12
0.00100000	1.53524e-13	4.34708e-13	1.13339e-12	2.74734e-12	6.24256e-12
0.000100000	2.01138e-13	5.51001e-13	1.39448e-12	3.29149e-12	7.30417e-12
1.00000e-05	2.07856e-13	5.66970e-13	1.42942e-12	3.36256e-12	7.43972e-12
1.00000e-06	2.08556e-13	5.68628e-13	1.43304e-12	3.36990e-12	7.45367e-12
1.00000e-07	2.08626e-13	5.68795e-13	1.43340e-12	3.37063e-12	7.45507e-12
1.00000e-08	2.08633e-13	5.68811e-13	1.43344e-12	3.37071e-12	7.45521e-12
1.00000e-09	2.08634e-13	5.68813e-13	1.43344e-12	3.37072e-12	7.45523e-12

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	2.02736e-32	9.99465e-32	4.61737e-31	1.48723e-23	8.21179e-30
1.00000e+07	1.24280e-28	5.92213e-28	2.65198e-27	4.58728e-20	4.47871e-26
1.00000e+06	1.85048e-25	8.13180e-25	3.38347e-24	2.75786e-17	5.07461e-23
100000.	3.70325e-23	1.46336e-22	5.54493e-22	1.57401e-15	7.26217e-21
10000.0	1.27814e-21	4.68181e-21	1.63991e-20	3.97419e-15	1.80024e-19
1000.00	1.01029e-19	3.65574e-19	1.24725e-18	1.05079e-15	1.22972e-17
100.000	1.27784e-17	4.39688e-17	1.43244e-16	1.14086e-14	1.30149e-15
10.0000	1.12445e-15	3.66505e-15	1.12600e-14	4.31419e-13	8.99926e-14
1.00000	5.67648e-14	1.65239e-13	4.51610e-13	7.07271e-12	2.83969e-12
0.100000	1.10836e-12	2.78502e-12	6.58997e-12	4.17307e-11	3.14100e-11
0.0100000	6.65812e-12	1.46284e-11	3.04777e-11	8.66792e-11	1.15003e-10
0.00100000	1.33902e-11	2.72783e-11	5.30555e-11	9.06035e-11	1.77775e-10
0.000100000	1.53429e-11	3.06855e-11	5.87252e-11	8.71489e-11	1.91639e-10
1.00000e-05	1.55870e-11	3.11032e-11	5.94078e-11	8.66595e-11	1.93255e-10
1.00000e-06	1.56121e-11	3.11459e-11	5.94775e-11	8.66102e-11	1.93420e-10
1.00000e-07	1.56146e-11	3.11502e-11	5.94845e-11	8.66053e-11	1.93436e-10
1.00000e-08	1.56148e-11	3.11507e-11	5.94852e-11	8.66048e-11	1.93438e-10
1.00000e-09	1.56149e-11	3.11507e-11	5.94852e-11	8.66048e-11	1.93438e-10

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.24641e-15	1.71845e-10	2.85602e-08	6.00762e-07	3.22917e-06
1.00000e+07	1.78466e-12	8.71842e-08	4.92675e-06	3.05328e-05	6.92469e-05
1.00000e+06	1.72505e-10	1.68591e-06	6.08360e-05	0.000216627	0.000356512
100000.	7.58091e-10	1.25529e-06	5.40530e-05	0.000251522	0.000449447
10000.0	2.17399e-10	1.61334e-07	1.18077e-05	0.000115281	0.000298156
1000.00	1.76261e-11	1.71989e-08	2.88791e-06	4.91881e-05	0.000156844
100.000	2.09396e-11	6.72718e-09	8.67224e-07	1.57737e-05	5.06973e-05
10.0000	3.25450e-10	2.79980e-08	5.97655e-07	5.26057e-06	1.73674e-05
1.00000	2.23645e-09	8.76945e-08	9.20426e-07	4.55880e-06	1.38142e-05
0.100000	6.05007e-09	1.38771e-07	1.09407e-06	4.67926e-06	1.36056e-05
0.0100000	8.29152e-09	1.54165e-07	1.12748e-06	4.70345e-06	1.35913e-05
0.00100000	8.25472e-09	1.56170e-07	1.13121e-06	4.70604e-06	1.35901e-05
0.000100000	8.67385e-09	1.56357e-07	1.13157e-06	4.70630e-06	1.35899e-05
1.00000e-05	8.67533e-09	1.56375e-07	1.13161e-06	4.70633e-06	1.35899e-05
1.00000e-06	8.67547e-09	1.56377e-07	1.13161e-06	4.70633e-06	1.35899e-05
1.00000e-07	8.67548e-09	1.56377e-07	1.13162e-06	4.70633e-06	1.35899e-05
1.00000e-08	8.67548e-09	1.56377e-07	1.13162e-06	4.70633e-06	1.35899e-05
1.00000e-09	8.67548e-09	1.56377e-07	1.13162e-06	4.70633e-06	1.35899e-05

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	8.70918e-06	1.41408e-05	1.89335e-05	2.18078e-05	2.29903e-05
1.00000e+07	0.000105028	0.000150283	0.000217395	0.000279889	0.000321725
1.00000e+06	0.000471499	0.000590619	0.000733928	0.000859990	0.000944903
100000.	0.000602904	0.000725242	0.000830290	0.000916909	0.000973038
10000.0	0.000441884	0.000519440	0.000559680	0.000581705	0.000583361
1000.00	0.000229552	0.000249318	0.000254084	0.000261259	0.000271066
100.000	7.42489e-05	9.15168e-05	0.000116002	0.000147858	0.000182807
10.0000	3.48797e-05	5.98131e-05	9.27250e-05	0.000130840	0.000170565
1.00000	3.07574e-05	5.65489e-05	9.02638e-05	0.000128966	0.000169161
0.100000	3.04138e-05	5.62424e-05	9.00178e-05	0.000128773	0.000169014
0.0100000	3.03820e-05	5.62127e-05	8.99938e-05	0.000128754	0.000168999
0.00100000	3.03790e-05	5.62099e-05	8.99915e-05	0.000128752	0.000168998
0.000100000	3.03787e-05	5.62096e-05	8.99912e-05	0.000128752	0.000168998
1.00000e-05	3.03786e-05	5.62096e-05	8.99912e-05	0.000128752	0.000168998
1.00000e-06	3.03786e-05	5.62096e-05	8.99912e-05	0.000128752	0.000168998
1.00000e-07	3.03786e-05	5.62096e-05	8.99912e-05	0.000128752	0.000168998
1.00000e-08	3.03786e-05	5.62096e-05	8.99912e-05	0.000128752	0.000168998
1.00000e-09	3.03786e-05	5.62096e-05	8.99912e-05	0.000128752	0.000168998

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	2.35416e-05	2.32366e-05	0.00453421	0.00517780	0.00577042
1.00000e+07	0.000349646	0.000367578	0.0122690	0.0133119	0.0132450
1.00000e+06	0.000995429	0.00101993	0.0178671	0.0163934	0.0137986

100000.	0.000992061	0.000979847	0.0128922	0.00957878	0.00677154
10000.0	0.000564188	0.000534559	0.00437308	0.00270322	0.00203411
1000.00	0.000282469	0.000297461	0.000948213	0.000847795	0.00109166
100.000	0.000217947	0.000253296	0.000420349	0.000615016	0.000986834
10.0000	0.000209544	0.000247954	0.000364818	0.000591750	0.000976559
1.00000	0.000208544	0.000247300	0.000359326	0.000589474	0.000975555
0.100000	0.000208437	0.000247230	0.000358784	0.000589250	0.000975456
0.0100000	0.000208427	0.000247223	0.000358730	0.000589228	0.000975446
0.00100000	0.000208426	0.000247223	0.000358725	0.000589226	0.000975445
0.000100000	0.000208426	0.000247223	0.000358724	0.000589225	0.000975445
1.00000e-05	0.000208426	0.000247223	0.000358724	0.000589225	0.000975445
1.00000e-06	0.000208426	0.000247223	0.000358724	0.000589225	0.000975445
1.00000e-07	0.000208426	0.000247223	0.000358724	0.000589225	0.000975445
1.00000e-08	0.000208426	0.000247223	0.000358724	0.000589225	0.000975445
1.00000e-09	0.000208426	0.000247223	0.000358724	0.000589225	0.000975445

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00615020	0.00621830	0.00597672	0.00551469	0.00494621
1.00000e+07	0.0121041	0.0103671	0.00854108	0.00692364	0.00561278
1.00000e+06	0.0108106	0.00817382	0.00620328	0.00486670	0.00399664
100000.	0.00478102	0.00369435	0.00321044	0.00301612	0.00291786
10000.0	0.00195578	0.00216682	0.00243265	0.00263483	0.00273636
1000.00	0.00151343	0.00196634	0.00234287	0.00259493	0.00271889
100.000	0.00146776	0.00194656	0.00233428	0.00259120	0.00271731
10.0000	0.00146333	0.00194466	0.00233346	0.00259085	0.00271716
1.00000	0.00146290	0.00194447	0.00233338	0.00259081	0.00271714
0.100000	0.00146286	0.00194445	0.00233337	0.00259081	0.00271714
0.0100000	0.00146285	0.00194445	0.00233337	0.00259081	0.00271714
0.00100000	0.00146285	0.00194445	0.00233337	0.00259081	0.00271714
0.000100000	0.00146285	0.00194445	0.00233337	0.00259081	0.00271714
1.00000e-05	0.00146285	0.00194445	0.00233337	0.00259081	0.00271714
1.00000e-06	0.00146285	0.00194445	0.00233337	0.00259081	0.00271714
1.00000e-07	0.00146285	0.00194445	0.00233337	0.00259081	0.00271714
1.00000e-08	0.00146285	0.00194445	0.00233337	0.00259081	0.00271714
1.00000e-09	0.00146285	0.00194445	0.00233337	0.00259081	0.00271714

Pa\K	3750.00	4000.00
1.00000e+08	0.00436204	0.00381613
1.00000e+07	0.00459693	0.00382421
1.00000e+06	0.00342386	0.00302450
100000.	0.00282534	0.00270837
10000.0	0.00274181	0.00267199
1000.00	0.00273444	0.00266916
100.000	0.00273379	0.00266893
10.0000	0.00273373	0.00266891
1.00000	0.00273373	0.00266891
0.100000	0.00273373	0.00266891
0.0100000	0.00273373	0.00266891
0.00100000	0.00273373	0.00266891
0.000100000	0.00273373	0.00266891
1.00000e-05	0.00273373	0.00266891
1.00000e-06	0.00273373	0.00266891
1.00000e-07	0.00273373	0.00266891
1.00000e-08	0.00273373	0.00266891
1.00000e-09	0.00273373	0.00266891

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.20233e-73	6.10150e-72	1.18040e-70	1.99017e-69	3.54125e-68
1.00000e+07	6.54115e-69	2.30047e-67	3.45652e-66	4.77879e-65	7.18114e-64
1.00000e+06	8.23348e-65	1.68287e-63	1.83316e-62	2.01910e-61	2.56295e-60
100000.	1.45366e-61	1.47646e-60	1.08480e-59	9.36257e-59	1.03618e-57
10000.0	1.90034e-59	7.97842e-59	3.98527e-58	3.06871e-57	3.61570e-56
1000.00	1.40557e-58	3.56281e-58	1.54265e-57	1.10908e-56	1.25656e-55
100.000	6.03398e-58	1.60407e-57	4.84268e-57	1.93653e-56	1.05935e-55
10.0000	1.61010e-57	1.34356e-57	1.56048e-57	2.66939e-57	6.61225e-57
1.00000	8.46887e-60	5.15995e-61	6.52856e-61	2.21974e-60	1.03979e-59
0.100000	5.25758e-61	1.16872e-60	2.87457e-60	8.81784e-60	3.49630e-59
0.0100000	7.40513e-61	4.46125e-61	4.38369e-61	6.72815e-61	1.54567e-60
0.00100000	4.02810e-63	4.39036e-64	2.07720e-64	2.17033e-64	3.99621e-64
0.000100000	5.99288e-67	6.67048e-68	3.68316e-68	4.48902e-68	9.53558e-68
1.00000e-05	2.18690e-70	4.07922e-71	3.04377e-71	4.60678e-71	1.17351e-70
1.00000e-06	4.27147e-73	1.28984e-73	1.26096e-73	2.33883e-73	7.47430e-73
1.00000e-07	3.71135e-75	1.72067e-75	2.19135e-75	5.16429e-75	2.31535e-74
1.00000e-08	1.21540e-76	8.08636e-77	1.26033e-76	3.47783e-76	1.83391e-75
1.00000e-09	9.49979e-78	7.11112e-78	1.16250e-77	3.30401e-77	1.78513e-76

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	7.32008e-67	1.94392e-65	7.60268e-64	5.04447e-62	5.92819e-60
1.00000e+07	1.27669e-62	2.95808e-61	1.02583e-59	6.17181e-58	6.75936e-56
1.00000e+06	4.02960e-59	8.60856e-58	2.86123e-56	1.69677e-54	1.84431e-52
100000.	1.55369e-56	3.41487e-55	1.22705e-53	7.87921e-52	8.84486e-50
10000.0	6.42442e-55	1.74544e-53	7.55438e-52	5.33692e-50	5.85843e-48
1000.00	2.17853e-54	5.70102e-53	2.27125e-51	1.38788e-49	1.26907e-47
100.000	8.31076e-55	1.00582e-53	2.08902e-52	8.44807e-51	7.24912e-49
10.0000	2.44354e-56	1.49877e-55	1.90659e-54	6.63079e-53	6.99522e-51
1.00000	6.81605e-59	7.42502e-58	1.77755e-56	1.05690e-54	1.44589e-52
0.100000	1.95460e-58	1.84543e-57	3.87869e-56	2.02941e-54	2.41910e-52
0.0100000	5.54933e-60	3.63095e-59	5.61629e-58	2.28722e-56	2.29406e-54
0.00100000	1.25891e-63	7.67502e-63	1.19292e-61	6.19967e-60	1.91941e-57
0.000100000	3.46273e-67	2.62815e-66	1.10584e-64	6.06973e-62	1.03901e-58
1.00000e-05	5.44009e-70	1.16141e-68	4.73616e-66	5.32242e-63	1.01087e-59
1.00000e-06	6.44376e-72	6.34668e-70	6.44242e-67	5.26535e-64	1.00837e-60
1.00000e-07	3.93842e-73	5.95524e-71	4.41445e-68	5.25972e-65	1.00812e-61
1.00000e-08	3.69149e-74	5.91621e-72	4.41163e-69	5.25915e-66	1.00810e-62
1.00000e-09	3.66670e-75	5.91229e-73	4.41135e-70	5.25910e-67	1.00810e-63

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	9.73798e-58	1.79971e-55	2.93392e-53	4.62350e-51	5.37865e-49
1.00000e+07	1.05281e-53	1.86895e-51	2.94278e-49	4.58686e-47	5.31285e-45
1.00000e+06	2.83589e-50	4.92976e-48	7.56988e-46	1.13800e-43	1.27235e-41
100000.	1.34634e-47	2.24733e-45	3.28227e-43	4.53508e-41	4.67176e-39
10000.0	8.16947e-46	1.21364e-43	1.58480e-41	1.91211e-39	1.75250e-37
1000.00	1.50243e-45	1.99984e-43	2.46811e-41	3.08283e-39	3.07550e-37
100.000	1.00211e-46	1.80262e-44	3.06543e-42	6.57931e-40	1.08771e-37
10.0000	1.31506e-48	3.59609e-46	9.50235e-44	3.92545e-41	1.16487e-38
1.00000	2.65413e-50	7.32473e-48	2.36915e-45	1.57190e-42	7.00675e-40
0.100000	3.67643e-50	7.10534e-48	1.30727e-45	4.73274e-43	1.49771e-40
0.0100000	3.27159e-52	7.65519e-50	2.32461e-47	1.72194e-44	8.88419e-42
0.00100000	1.50858e-54	1.60212e-51	1.13989e-48	1.18959e-45	6.86114e-43
0.000100000	1.28783e-55	1.51688e-52	1.10964e-49	1.16256e-46	6.69850e-44
1.00000e-05	1.27657e-56	1.51121e-53	1.10729e-50	1.16014e-47	6.68287e-45
1.00000e-06	1.27552e-57	1.51067e-54	1.10706e-51	1.15991e-48	6.68131e-46
1.00000e-07	1.27542e-58	1.51062e-55	1.10704e-52	1.15988e-49	6.68116e-47
1.00000e-08	1.27541e-59	1.51061e-56	1.10704e-53	1.15988e-50	6.68114e-48
1.00000e-09	1.27541e-60	1.51061e-57	1.10704e-54	1.15988e-51	6.68114e-49

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	4.49349e-47	2.69940e-45	1.29406e-43	4.32362e-42	1.03573e-40
1.00000e+07	4.44131e-43	2.68951e-41	1.32132e-39	4.39986e-38	1.01682e-36
1.00000e+06	1.02847e-39	6.04507e-38	2.90234e-36	9.28895e-35	2.01982e-33
100000.	3.49193e-37	1.90426e-35	8.52939e-34	2.53541e-32	5.05770e-31
10000.0	1.18425e-35	5.91330e-34	2.49241e-32	6.98572e-31	1.28799e-29
1000.00	2.33998e-35	1.37295e-33	8.05513e-32	2.68299e-30	4.98541e-29
100.000	1.31952e-35	1.27816e-33	1.72074e-31	7.66501e-30	1.48883e-28
10.0000	2.34385e-36	3.96868e-34	2.45856e-31	1.30862e-29	2.49237e-28
1.00000	1.91332e-37	4.38392e-35	2.52132e-31	1.42139e-29	2.69664e-28
0.100000	3.62654e-38	8.76383e-36	2.54737e-31	1.44663e-29	2.74437e-28
0.0100000	3.02738e-39	1.20108e-36	2.56020e-31	1.45524e-29	2.75929e-28
0.00100000	2.49797e-40	1.16162e-37	2.56203e-31	1.45645e-29	2.76129e-28
0.000100000	2.44070e-41	1.15412e-38	2.56222e-31	1.45657e-29	2.76150e-28
1.00000e-05	2.43496e-42	1.15332e-39	2.56224e-31	1.45658e-29	2.76152e-28
1.00000e-06	2.43439e-43	1.15324e-40	2.56224e-31	1.45659e-29	2.76152e-28
1.00000e-07	2.43433e-44	1.15324e-41	2.56225e-31	1.45659e-29	2.76152e-28
1.00000e-08	2.43432e-45	1.15324e-42	2.56225e-31	1.45659e-29	2.76152e-28
1.00000e-09	2.43432e-46	1.15324e-43	2.56225e-31	1.45659e-29	2.76152e-28

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.89258e-39	2.90363e-38	3.63063e-37	3.80629e-36	3.47498e-35
1.00000e+07	1.76002e-35	2.55037e-34	2.99265e-33	2.93253e-32	2.50103e-31
1.00000e+06	3.27759e-32	4.41497e-31	4.84463e-30	4.48347e-29	3.62747e-28
100000.	7.58221e-30	9.36573e-29	9.55250e-28	8.34196e-27	6.41939e-26
10000.0	1.78664e-28	2.03143e-27	1.91584e-26	1.55130e-25	1.10675e-24
1000.00	6.62570e-28	7.12024e-27	6.22075e-26	4.58741e-25	2.93916e-24
100.000	1.96397e-27	2.06406e-26	1.74155e-25	1.23142e-24	7.51657e-24
10.0000	3.18444e-27	3.22336e-26	2.62484e-25	1.79450e-24	1.05924e-23
1.00000	3.42548e-27	3.44518e-26	2.78920e-25	1.89662e-24	1.11375e-23
0.100000	3.48436e-27	3.50199e-26	2.83323e-25	1.92529e-24	1.12983e-23
0.0100000	3.50184e-27	3.51803e-26	2.84518e-25	1.93280e-24	1.13389e-23
0.00100000	3.50413e-27	3.52009e-26	2.84669e-25	1.93373e-24	1.13439e-23
0.000100000	3.50437e-27	3.52031e-26	2.84684e-25	1.93383e-24	1.13444e-23
1.00000e-05	3.50439e-27	3.52033e-26	2.84686e-25	1.93384e-24	1.13445e-23

1.00000e-06	3.50440e-27	3.52033e-26	2.84686e-25	1.93384e-24	1.13445e-23
1.00000e-07	3.50440e-27	3.52033e-26	2.84686e-25	1.93384e-24	1.13445e-23
1.00000e-08	3.50440e-27	3.52033e-26	2.84686e-25	1.93384e-24	1.13445e-23
1.00000e-09	3.50440e-27	3.52033e-26	2.84686e-25	1.93384e-24	1.13445e-23

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	2.80800e-34	2.02877e-33	1.32244e-32	8.60431e-24	4.23877e-31
1.00000e+07	1.88965e-30	1.27898e-29	7.83410e-29	2.24347e-20	2.24730e-27
1.00000e+06	2.61126e-27	1.69209e-26	9.97108e-26	1.23683e-17	2.68041e-24
100000.	4.42869e-25	2.77303e-24	1.59129e-23	5.38684e-16	4.12951e-22
10000.0	7.07908e-24	4.11333e-23	2.19440e-22	7.31913e-16	4.96718e-21
1000.00	1.66520e-23	8.44932e-23	3.88484e-22	4.45670e-17	6.36055e-21
100.000	4.03170e-23	1.92372e-22	8.25725e-22	9.82358e-19	1.14998e-20
10.0000	5.49457e-23	2.53596e-22	1.05304e-21	3.84648e-20	1.37191e-20
1.00000	5.74870e-23	2.64065e-22	1.09150e-21	6.58459e-21	1.40948e-20
0.100000	5.82772e-23	2.67511e-22	1.10498e-21	3.77367e-21	1.42491e-20
0.0100000	5.84702e-23	2.68325e-22	1.10806e-21	3.49615e-21	1.42824e-20
0.00100000	5.84935e-23	2.68422e-22	1.10842e-21	3.46962e-21	1.42862e-20
0.000100000	5.84959e-23	2.68432e-22	1.10846e-21	3.46698e-21	1.42866e-20
1.00000e-05	5.84962e-23	2.68433e-22	1.10847e-21	3.46672e-21	1.42867e-20
1.00000e-06	5.84962e-23	2.68433e-22	1.10847e-21	3.46669e-21	1.42867e-20
1.00000e-07	5.84962e-23	2.68433e-22	1.10847e-21	3.46669e-21	1.42867e-20
1.00000e-08	5.84962e-23	2.68433e-22	1.10847e-21	3.46669e-21	1.42867e-20
1.00000e-09	5.84962e-23	2.68433e-22	1.10847e-21	3.46669e-21	1.42867e-20

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.00074e-15	1.36801e-10	2.19458e-08	4.43542e-07	1.96636e-06
1.00000e+07	1.17487e-12	6.14903e-08	3.50274e-06	2.17043e-05	4.91523e-05
1.00000e+06	8.97335e-11	1.09787e-06	4.22569e-05	0.000152320	0.000251964
100000.	2.63915e-10	6.25710e-07	3.46370e-05	0.000171825	0.000312493
10000.0	3.91950e-11	5.05949e-08	6.62279e-06	7.52102e-05	0.000201858
1000.00	1.08635e-12	3.25208e-09	1.51863e-06	3.13757e-05	0.000103701
100.000	5.12404e-14	4.59881e-10	3.90059e-07	9.21711e-06	2.92069e-05
10.0000	5.71635e-15	6.88194e-11	5.83168e-08	1.30542e-06	3.88373e-06
1.00000	7.00027e-16	7.37977e-12	5.63289e-09	1.24504e-07	3.78669e-07
0.100000	1.39968e-16	7.65700e-13	5.38135e-10	1.18108e-08	3.71736e-08
0.0100000	8.31889e-17	1.12218e-13	5.57401e-11	1.21751e-09	4.51223e-09
0.00100000	7.74954e-17	4.69174e-14	8.28660e-12	1.89993e-10	1.33470e-09
0.000100000	7.69253e-17	4.03825e-14	3.56982e-12	8.88758e-11	1.02217e-09
1.00000e-05	7.68682e-17	3.97289e-14	3.09949e-12	7.88527e-11	9.91219e-10
1.00000e-06	7.68625e-17	3.96635e-14	3.05250e-12	7.78536e-11	9.88135e-10
1.00000e-07	7.68620e-17	3.96570e-14	3.04780e-12	7.77537e-11	9.87827e-10
1.00000e-08	7.68619e-17	3.96563e-14	3.04733e-12	7.77438e-11	9.87797e-10
1.00000e-09	7.68619e-17	3.96563e-14	3.04729e-12	7.77428e-11	9.87794e-10

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	3.52990e-06	4.71311e-06	5.89929e-06	6.62302e-06	7.00513e-06
1.00000e+07	7.21996e-05	9.50560e-05	0.000126276	0.000155559	0.000176785
1.00000e+06	0.000333230	0.000410909	0.000493965	0.000562682	0.000609006
100000.	0.000421282	0.000503186	0.000563132	0.000600566	0.000614284
10000.0	0.000301558	0.000348746	0.000357486	0.000341754	0.000310354
1000.00	0.000149192	0.000148547	0.000126391	9.97685e-05	7.62649e-05
100.000	3.54425e-05	2.89988e-05	2.07660e-05	1.46027e-05	1.13310e-05
10.0000	4.29331e-06	3.26793e-06	2.34696e-06	2.08296e-06	2.97555e-06
1.00000	4.25092e-07	3.56208e-07	4.00064e-07	8.20683e-07	2.15921e-06
0.100000	4.81302e-08	7.43898e-08	2.12914e-07	6.99912e-07	2.08129e-06
0.0100000	1.17662e-08	4.71378e-08	1.94806e-07	6.88220e-07	2.07374e-06
0.00100000	8.21615e-09	4.44729e-08	1.93033e-07	6.87075e-07	2.07300e-06
0.000100000	7.86648e-09	4.42101e-08	1.92858e-07	6.86962e-07	2.07293e-06
1.00000e-05	7.83183e-09	4.41841e-08	1.92841e-07	6.86951e-07	2.07292e-06
1.00000e-06	7.82838e-09	4.41815e-08	1.92839e-07	6.86949e-07	2.07292e-06
1.00000e-07	7.82803e-09	4.41812e-08	1.92839e-07	6.86949e-07	2.07292e-06
1.00000e-08	7.82800e-09	4.41812e-08	1.92839e-07	6.86949e-07	2.07292e-06
1.00000e-09	7.82799e-09	4.41812e-08	1.92839e-07	6.86949e-07	2.07292e-06

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	7.45425e-06	7.99315e-06	0.00397396	0.00457415	0.00514087
1.00000e+07	0.000193715	0.000207771	0.0116065	0.0127528	0.0128180
1.00000e+06	0.000637803	0.000651983	0.0173912	0.0160046	0.0134872
100000.	0.000607707	0.000585744	0.0124380	0.00915301	0.00634584
10000.0	0.000271520	0.000233338	0.00402573	0.00232113	0.00157817
1000.00	5.93110e-05	5.10005e-05	0.000649677	0.000478288	0.000629062
100.000	1.15814e-05	1.67622e-05	0.000126717	0.000245222	0.000522849
10.0000	6.03047e-06	1.30688e-05	7.15052e-05	0.000221742	0.000512387
1.00000	5.49895e-06	1.27195e-05	6.60688e-05	0.000219439	0.000511363
0.100000	5.44826e-06	1.26862e-05	6.55333e-05	0.000219212	0.000511262

0.0100000	5.44334e-06	1.26830e-05	6.54802e-05	0.000219190	0.000511252
0.00100000	5.44286e-06	1.26827e-05	6.54750e-05	0.000219187	0.000511251
0.000100000	5.44281e-06	1.26826e-05	6.54744e-05	0.000219187	0.000511251
1.00000e-05	5.44281e-06	1.26826e-05	6.54744e-05	0.000219187	0.000511251
1.00000e-06	5.44280e-06	1.26826e-05	6.54744e-05	0.000219187	0.000511251
1.00000e-07	5.44280e-06	1.26826e-05	6.54744e-05	0.000219187	0.000511251
1.00000e-08	5.44280e-06	1.26826e-05	6.54744e-05	0.000219187	0.000511251
1.00000e-09	5.44280e-06	1.26826e-05	6.54744e-05	0.000219187	0.000511251

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00552148	0.00561889	0.00542644	0.00502028	0.00450424
1.00000e+07	0.0117563	0.0100515	0.00823124	0.00660965	0.00529383
1.00000e+06	0.0104730	0.00777918	0.00576541	0.00441038	0.00354394
100000.	0.00428527	0.00313809	0.00263178	0.00244948	0.00238526
10000.0	0.00141383	0.00157074	0.00182443	0.00204798	0.00219069
1000.00	0.000964170	0.00136499	0.00173108	0.00200575	0.00217176
100.000	0.000917573	0.00134463	0.00172211	0.00200178	0.00217003
10.0000	0.000913039	0.00134266	0.00172125	0.00200140	0.00216986
1.00000	0.000912596	0.00134247	0.00172117	0.00200137	0.00216985
0.100000	0.000912552	0.00134245	0.00172116	0.00200136	0.00216985
0.0100000	0.000912548	0.00134245	0.00172116	0.00200136	0.00216985
0.00100000	0.000912547	0.00134245	0.00172116	0.00200136	0.00216985
0.000100000	0.000912547	0.00134245	0.00172116	0.00200136	0.00216985
1.00000e-05	0.000912547	0.00134245	0.00172116	0.00200136	0.00216985
1.00000e-06	0.000912547	0.00134245	0.00172116	0.00200136	0.00216985
1.00000e-07	0.000912547	0.00134245	0.00172116	0.00200136	0.00216985
1.00000e-08	0.000912547	0.00134245	0.00172116	0.00200136	0.00216985
1.00000e-09	0.000912547	0.00134245	0.00172116	0.00200136	0.00216985

Pa\K	3750.00	4000.00
1.00000e+08	0.00396417	0.00345319
1.00000e+07	0.00427598	0.00350500
1.00000e+06	0.00298972	0.00261660
100000.	0.00233677	0.00226520
10000.0	0.00224512	0.00222397
1000.00	0.00223687	0.00222061
100.000	0.00223614	0.00222033
10.0000	0.00223607	0.00222030
1.00000	0.00223606	0.00222030
0.100000	0.00223606	0.00222030
0.0100000	0.00223606	0.00222030
0.00100000	0.00223606	0.00222030
0.000100000	0.00223606	0.00222030
1.00000e-05	0.00223606	0.00222030
1.00000e-06	0.00223606	0.00222030
1.00000e-07	0.00223606	0.00222030
1.00000e-08	0.00223606	0.00222030
1.00000e-09	0.00223606	0.00222030

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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	100.000	110.000
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

1.00000e+08	N/A	N/A	N/A	4.31416e-28	N/A
1.00000e+07	N/A	N/A	N/A	1.62819e-24	N/A
1.00000e+06	N/A	N/A	N/A	5.75334e-22	N/A
100000.	N/A	N/A	N/A	5.42524e-21	N/A
10000.0	N/A	N/A	N/A	3.57476e-22	N/A
1000.00	N/A	N/A	N/A	1.98077e-25	N/A
100.000	N/A	N/A	N/A	1.21790e-28	N/A
10.0000	N/A	N/A	N/A	2.83717e-30	N/A
1.00000	N/A	N/A	N/A	2.32985e-31	N/A
0.100000	N/A	N/A	N/A	2.29073e-32	N/A
0.0100000	N/A	N/A	N/A	2.29185e-33	N/A
0.00100000	N/A	N/A	N/A	2.29578e-34	N/A
0.000100000	N/A	N/A	N/A	2.29814e-35	N/A
1.00000e-05	N/A	N/A	N/A	2.29898e-36	N/A
1.00000e-06	N/A	N/A	N/A	2.29916e-37	N/A
1.00000e-07	N/A	N/A	N/A	2.29917e-38	N/A
1.00000e-08	N/A	N/A	N/A	2.29918e-39	N/A
1.00000e-09	N/A	N/A	N/A	2.29918e-40	N/A

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.64343e-17	3.74311e-12	4.66209e-10	8.42641e-09	3.73519e-08
1.00000e+07	1.83760e-14	2.21961e-09	1.22235e-07	6.93597e-07	1.55749e-06
1.00000e+06	5.66629e-13	3.25256e-08	1.62024e-06	6.07270e-06	1.02860e-05
100000.	2.48492e-13	6.39121e-09	1.01154e-06	6.37359e-06	1.24862e-05
10000.0	2.70513e-15	1.30696e-10	1.38099e-07	2.45103e-06	7.46707e-06
1000.00	6.98725e-18	4.91548e-12	3.03280e-08	9.97055e-07	3.75189e-06
100.000	1.68591e-19	6.77969e-13	7.88438e-09	2.93509e-07	1.05396e-06
10.0000	1.81449e-20	1.02099e-13	1.18250e-09	4.15955e-08	1.40085e-07
1.00000	2.00920e-21	1.09050e-14	1.14049e-10	3.95992e-09	1.36258e-08
0.100000	2.03511e-22	1.07851e-15	1.08304e-11	3.73031e-10	1.30551e-09
0.0100000	2.04146e-23	1.07785e-16	1.06621e-12	3.62174e-11	1.27175e-10
0.00100000	2.05026e-24	1.07864e-17	1.06003e-13	3.56610e-12	1.25364e-11
0.000100000	2.10813e-25	1.07933e-18	1.05726e-14	3.53882e-13	1.26052e-12
1.00000e-05	2.67559e-26	1.08386e-19	1.05722e-15	3.55326e-14	1.43940e-13
1.00000e-06	8.34763e-27	1.12891e-20	1.06640e-16	3.80061e-15	3.26840e-14
1.00000e-07	6.50678e-27	1.57935e-21	1.16057e-17	6.29923e-16	2.15685e-14
1.00000e-08	6.32269e-27	6.08384e-22	2.10262e-18	3.12861e-16	2.04568e-14
1.00000e-09	6.30428e-27	5.11287e-22	1.15234e-18	2.81178e-16	2.03460e-14

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	7.02399e-08	9.74393e-08	1.24999e-07	1.42770e-07	1.53049e-07
1.00000e+07	2.35181e-06	3.16918e-06	4.28310e-06	5.34820e-06	6.14608e-06
1.00000e+06	1.38872e-05	1.73178e-05	2.09265e-05	2.39160e-05	2.59466e-05
100000.	1.73604e-05	2.09794e-05	2.35473e-05	2.51219e-05	2.56779e-05
10000.0	1.17363e-05	1.38327e-05	1.42695e-05	1.36590e-05	1.23723e-05
1000.00	5.71579e-06	5.81552e-06	4.98294e-06	3.92610e-06	2.94966e-06
100.000	1.35499e-06	1.13213e-06	8.11322e-07	5.51436e-07	3.71881e-07
10.0000	1.63842e-07	1.26039e-07	8.50399e-08	5.60834e-08	4.06654e-08
1.00000	1.59534e-08	1.22088e-08	8.28331e-09	6.14720e-09	8.30810e-09
0.100000	1.54149e-09	1.19157e-09	9.04960e-10	1.36948e-09	5.21959e-09
0.0100000	1.51200e-10	1.26189e-10	1.91053e-10	9.06940e-10	4.92030e-09
0.00100000	1.54705e-11	2.20059e-11	1.21176e-10	8.61629e-10	4.89096e-09
0.000100000	2.10111e-12	1.17338e-11	1.14282e-10	8.57156e-10	4.88806e-09
1.00000e-05	7.76407e-13	1.07154e-11	1.13598e-10	8.56712e-10	4.88777e-09
1.00000e-06	6.44374e-13	1.06139e-11	1.13530e-10	8.56667e-10	4.88774e-09
1.00000e-07	6.31181e-13	1.06037e-11	1.13523e-10	8.56663e-10	4.88774e-09
1.00000e-08	6.29862e-13	1.06027e-11	1.13522e-10	8.56663e-10	4.88774e-09
1.00000e-09	6.29730e-13	1.06026e-11	1.13522e-10	8.56663e-10	4.88774e-09

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	1.64744e-07	1.78571e-07	0.00289093	0.00335202	0.00379045
1.00000e+07	6.79873e-06	7.35283e-06	0.0101732	0.0111794	0.0112406
1.00000e+06	2.72123e-05	2.78295e-05	0.0153456	0.0139773	0.0116785
100000.	2.53438e-05	2.43000e-05	0.0106274	0.00762249	0.00505983
10000.0	1.07210e-05	8.98874e-06	0.00337700	0.00177697	0.000937916
1000.00	2.16461e-06	1.61138e-06	0.000498707	0.000225382	0.000132131
100.000	2.65991e-07	2.45039e-07	5.33215e-05	2.98423e-05	4.22974e-05
10.0000	4.54922e-08	9.78096e-08	6.30919e-06	1.01508e-05	3.34492e-05
1.00000	2.43770e-08	8.38787e-08	1.68088e-06	8.21914e-06	3.25827e-05
0.100000	2.23628e-08	8.25492e-08	1.22501e-06	8.02872e-06	3.24973e-05
0.0100000	2.21674e-08	8.24201e-08	1.17986e-06	8.00985e-06	3.24889e-05
0.00100000	2.21482e-08	8.24074e-08	1.17537e-06	8.00797e-06	3.24880e-05
0.000100000	2.21463e-08	8.24061e-08	1.17492e-06	8.00779e-06	3.24879e-05
1.00000e-05	2.21461e-08	8.24060e-08	1.17488e-06	8.00777e-06	3.24879e-05
1.00000e-06	2.21461e-08	8.24060e-08	1.17488e-06	8.00777e-06	3.24879e-05
1.00000e-07	2.21461e-08	8.24060e-08	1.17488e-06	8.00777e-06	3.24879e-05
1.00000e-08	2.21461e-08	8.24060e-08	1.17488e-06	8.00777e-06	3.24879e-05

1.00000e-09 | 2.21461e-08 8.24060e-08 1.17488e-06 8.00777e-06 3.24879e-05

Pa\K | 2500.00 2750.00 3000.00 3250.00 3500.00

1.00000e+08 | 0.00409279 0.00418441 0.00405787 0.00376832 0.00339295
1.00000e+07 | 0.0103126 0.00880159 0.00716904 0.00569959 0.00450075
1.00000e+06 | 0.00892111 0.00639008 0.00444875 0.00312879 0.00231020
100000. | 0.00307453 0.00184371 0.00121885 0.000972729 0.000933015
10000.0 | 0.000527437 0.000399041 0.000433347 0.000552751 0.000709564
1000.00 | 0.000135336 0.000212094 0.000343258 0.000508444 0.000687356
100.000 | 9.47831e-05 0.000193574 0.000334548 0.000504224 0.000685264
10.0000 | 9.08340e-05 0.000191780 0.000333707 0.000503817 0.000685063
1.00000 | 9.04476e-05 0.000191605 0.000333625 0.000503778 0.000685044
0.100000 | 9.04095e-05 0.000191587 0.000333617 0.000503774 0.000685042
0.0100000 | 9.04058e-05 0.000191586 0.000333616 0.000503773 0.000685042
0.00100000 | 9.04054e-05 0.000191586 0.000333616 0.000503773 0.000685042
0.000100000 | 9.04053e-05 0.000191585 0.000333616 0.000503773 0.000685042
1.00000e-05 | 9.04053e-05 0.000191585 0.000333616 0.000503773 0.000685042
1.00000e-06 | 9.04053e-05 0.000191585 0.000333616 0.000503773 0.000685042
1.00000e-07 | 9.04053e-05 0.000191585 0.000333616 0.000503773 0.000685042
1.00000e-08 | 9.04053e-05 0.000191585 0.000333616 0.000503773 0.000685042
1.00000e-09 | 9.04053e-05 0.000191585 0.000333616 0.000503773 0.000685042

Pa\K | 3750.00 4000.00

1.00000e+08 | 0.00299658 0.00262014
1.00000e+07 | 0.00357788 0.00289354
1.00000e+06 | 0.00184287 0.00159894
100000. | 0.000992425 0.00108956
10000.0 | 0.000873864 0.00102723
1000.00 | 0.000862615 0.00102156
100.000 | 0.000861566 0.00102104
10.0000 | 0.000861466 0.00102099
1.00000 | 0.000861456 0.00102098
0.100000 | 0.000861455 0.00102098
0.0100000 | 0.000861455 0.00102098
0.00100000 | 0.000861455 0.00102098
0.000100000 | 0.000861455 0.00102098
1.00000e-05 | 0.000861455 0.00102098
1.00000e-06 | 0.000861455 0.00102098
1.00000e-07 | 0.000861455 0.00102098
1.00000e-08 | 0.000861455 0.00102098
1.00000e-09 | 0.000861455 0.00102098

PAH7+H

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08 | 9.05508e-49 1.03441e-47 6.76346e-47 4.12176e-46 2.63233e-45
1.00000e+07 | 8.87627e-46 9.93987e-45 6.37750e-44 3.81638e-43 2.39447e-42
1.00000e+06 | 7.36784e-43 7.00769e-42 3.91657e-41 2.07792e-40 1.17120e-39
100000. | 2.32944e-40 1.30483e-39 5.23903e-39 2.17948e-38 1.01218e-37
10000.0 | 9.57365e-39 2.26408e-38 5.22663e-38 1.43769e-37 4.79399e-37
1000.00 | 1.05164e-38 4.62725e-39 4.17426e-39 7.68663e-39 2.70508e-38
100.000 | 1.38953e-39 7.50874e-39 3.09455e-38 1.24846e-37 5.51369e-37
10.0000 | 2.14311e-37 1.26999e-36 4.92756e-36 1.85797e-35 7.75190e-35
1.00000 | 2.52309e-35 1.31234e-34 4.83354e-34 1.75863e-33 7.13645e-33
0.100000 | 2.48860e-33 1.28985e-32 4.70315e-32 1.69213e-31 6.80601e-31
0.0100000 | 2.40562e-31 1.20430e-30 4.25039e-30 1.48344e-29 5.80001e-29
0.00100000 | 1.78530e-29 7.01028e-29 2.02564e-28 5.95114e-28 1.99796e-27
0.000100000 | 3.05615e-28 4.74018e-28 7.29325e-28 1.33147e-27 3.05873e-27
1.00000e-05 | 1.05890e-28 4.16855e-29 3.25918e-29 3.96927e-29 7.01836e-29
1.00000e-06 | 1.11048e-30 3.21324e-31 2.43738e-31 3.08995e-31 6.02977e-31
1.00000e-07 | 1.05274e-32 4.19861e-33 4.03586e-33 6.40095e-33 1.66610e-32
1.00000e-08 | 3.26938e-34 1.90057e-34 2.25337e-34 4.19160e-34 1.26893e-33
1.00000e-09 | 2.52710e-35 1.66139e-35 2.06964e-35 3.96692e-35 1.22911e-34

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08 | 1.89248e-44 1.67130e-43 2.05440e-42 4.01685e-41 1.29394e-39
1.00000e+07 | 1.69201e-41 1.46983e-40 1.78082e-39 3.44890e-38 1.10995e-36
1.00000e+06 | 7.51595e-39 5.99447e-38 6.77473e-37 1.26012e-35 4.08449e-34
100000. | 5.53368e-37 3.86574e-36 3.95757e-35 7.05573e-34 2.40631e-32
10000.0 | 1.99602e-36 1.12272e-35 1.00691e-34 1.85717e-33 8.65024e-32
1000.00 | 1.62207e-37 1.51258e-36 2.14968e-35 4.89072e-34 2.55122e-32
100.000 | 2.99843e-36 2.39521e-35 3.53857e-34 9.95602e-33 3.60363e-31
10.0000 | 4.06705e-34 3.25708e-33 5.19858e-32 1.67443e-30 6.47152e-29
1.00000 | 3.68401e-32 2.97286e-31 4.98293e-30 1.72277e-28 6.92508e-27
0.100000 | 3.5092e-30 2.83622e-29 4.80217e-28 1.67505e-26 6.72627e-25
0.0100000 | 2.90601e-28 2.29782e-27 3.81092e-26 1.30350e-24 5.02028e-23

0.00100000	8.72903e-27	6.10852e-26	9.32112e-25	3.11955e-23	1.12983e-21
0.000100000	9.79783e-27	5.43535e-26	9.55246e-25	5.77082e-23	2.72046e-21
1.00000e-05	1.93790e-28	1.27962e-27	2.60250e-25	4.71177e-23	2.76800e-21
1.00000e-06	2.27122e-30	4.33075e-29	2.18164e-25	4.59549e-23	2.76482e-21
1.00000e-07	1.05704e-31	3.65307e-30	2.14724e-25	4.58441e-23	2.76447e-21
1.00000e-08	9.47150e-33	3.59097e-31	2.14388e-25	4.58330e-23	2.76443e-21
1.00000e-09	9.36418e-34	3.58501e-32	2.14354e-25	4.58319e-23	2.76443e-21

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	5.42608e-38	2.17022e-36	6.59477e-35	1.48386e-33	2.49283e-32
1.00000e+07	4.67868e-35	1.87902e-33	5.70113e-32	1.27548e-30	2.12426e-29
1.00000e+06	1.79587e-32	7.46461e-31	2.26867e-29	4.97964e-28	8.03363e-27
100000.	1.20712e-30	5.54462e-29	1.72326e-27	3.71649e-26	5.76574e-25
10000.0	7.66799e-30	4.73719e-28	1.59889e-26	3.47368e-25	5.24740e-24
1000.00	9.07317e-30	7.57441e-28	2.80774e-26	6.31591e-25	9.65124e-24
100.000	1.99982e-29	1.07645e-27	3.67281e-26	8.12225e-25	1.24449e-23
10.0000	1.96970e-27	4.41402e-26	7.43913e-25	9.84470e-24	1.05804e-22
1.00000	2.11808e-25	4.65092e-24	7.52394e-23	9.40604e-22	9.47081e-21
0.100000	2.03786e-23	4.39606e-22	6.92311e-21	8.32648e-20	7.95837e-19
0.0100000	1.42970e-21	2.83586e-20	4.02225e-19	4.26863e-18	3.53631e-17
0.00100000	2.90310e-20	5.03957e-19	6.13581e-18	5.52552e-17	3.86178e-16
0.000100000	7.50346e-20	1.28907e-18	1.49951e-17	1.26956e-16	8.28664e-16
1.00000e-05	8.18104e-20	1.43877e-18	1.68213e-17	1.41952e-16	9.19907e-16
1.00000e-06	8.24065e-20	1.45392e-18	1.70149e-17	1.43572e-16	9.29831e-16
1.00000e-07	8.24653e-20	1.45543e-18	1.70343e-17	1.43735e-16	9.30831e-16
1.00000e-08	8.24711e-20	1.45558e-18	1.70363e-17	1.43751e-16	9.30932e-16
1.00000e-09	8.24717e-20	1.45560e-18	1.70365e-17	1.43753e-16	9.30942e-16

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.24346e-31	3.38107e-30	2.91253e-29	2.12643e-28	1.34526e-27
1.00000e+07	2.73363e-28	2.81251e-27	2.38629e-26	1.71263e-25	1.06298e-24
1.00000e+06	9.92783e-26	9.74491e-25	7.84520e-24	5.31901e-23	3.10697e-22
100000.	6.75912e-24	6.23364e-23	4.68033e-22	2.94280e-21	1.58683e-20
10000.0	5.87634e-23	5.11630e-22	3.59924e-21	2.11073e-20	1.05885e-19
1000.00	1.08216e-22	9.39463e-22	6.58425e-21	3.85051e-20	1.92988e-19
100.000	1.41163e-22	1.24463e-21	8.87205e-21	5.27699e-20	2.68788e-19
10.0000	9.48874e-22	7.24861e-21	4.80251e-20	2.80364e-19	1.46383e-18
1.00000	7.95141e-20	5.71667e-19	3.59207e-18	2.00261e-17	1.00227e-16
0.100000	6.24712e-18	4.13283e-17	2.35187e-16	1.17040e-15	5.16378e-15
0.0100000	2.37062e-16	1.32457e-15	6.32028e-15	2.62761e-14	9.67852e-14
0.00100000	2.18067e-15	1.02817e-14	4.15762e-14	1.47377e-13	4.66272e-13
0.000100000	4.36300e-15	1.92046e-14	7.27110e-14	2.42273e-13	7.23733e-13
1.00000e-05	4.80038e-15	2.09301e-14	7.84999e-14	2.59217e-13	7.67877e-13
1.00000e-06	4.84801e-15	2.11176e-14	7.91267e-14	2.61043e-13	7.72611e-13
1.00000e-07	4.85281e-15	2.11365e-14	7.91899e-14	2.61227e-13	7.73087e-13
1.00000e-08	4.85329e-15	2.11384e-14	7.91962e-14	2.61245e-13	7.73135e-13
1.00000e-09	4.85334e-15	2.11385e-14	7.91968e-14	2.61247e-13	7.73140e-13

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	7.51413e-27	3.76416e-26	1.71334e-25	7.16482e-25	2.77840e-24
1.00000e+07	5.81331e-24	2.84533e-23	1.26275e-22	5.13756e-22	1.93416e-21
1.00000e+06	1.59376e-21	7.29487e-21	3.01950e-20	1.14308e-19	3.99571e-19
100000.	7.48521e-20	3.14036e-19	1.18822e-18	4.10263e-18	1.30559e-17
10000.0	4.64202e-19	1.81045e-18	6.37628e-18	2.05374e-17	6.11483e-17
1000.00	8.47147e-19	3.31505e-18	1.17339e-17	3.80221e-17	1.13929e-16
100.000	1.19784e-18	4.75465e-18	1.70659e-17	5.61146e-17	1.70957e-16
10.0000	6.92829e-18	3.00718e-17	1.20843e-16	4.53022e-16	1.59368e-15
1.00000	4.54488e-16	1.88136e-15	7.15509e-15	2.51425e-14	8.20513e-14
0.100000	2.04347e-14	7.32701e-14	2.40157e-13	7.25260e-13	2.03223e-12
0.0100000	3.20323e-13	9.64021e-13	2.66530e-12	6.82969e-12	1.63449e-11
0.00100000	1.33645e-12	3.51381e-12	8.56383e-12	1.95198e-11	4.19264e-11
0.000100000	1.96792e-12	4.93202e-12	1.15119e-11	2.52431e-11	5.23836e-11
1.00000e-05	2.07199e-12	5.15699e-12	1.19628e-11	2.60889e-11	5.38795e-11
1.00000e-06	2.08309e-12	5.18087e-12	1.20104e-11	2.61778e-11	5.40361e-11
1.00000e-07	2.08421e-12	5.18327e-12	1.20152e-11	2.61867e-11	5.40518e-11
1.00000e-08	2.08432e-12	5.18351e-12	1.20157e-11	2.61876e-11	5.40534e-11
1.00000e-09	2.08433e-12	5.18354e-12	1.20157e-11	2.61877e-11	5.40535e-11

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	1.00696e-23	3.43308e-23	1.10699e-22	6.46004e-19	9.90074e-22
1.00000e+07	6.79095e-21	2.23836e-20	6.96442e-20	1.38273e-16	5.77136e-19
1.00000e+06	1.30016e-18	3.96526e-18	1.14013e-17	4.33005e-15	8.05106e-17
100000.	3.86214e-17	1.06981e-16	2.79246e-16	4.75096e-14	1.62640e-15
10000.0	1.69853e-16	4.43644e-16	1.09703e-15	1.61138e-13	5.82307e-15
1000.00	3.18347e-16	8.35498e-16	2.07222e-15	5.50791e-14	1.09825e-14
100.000	4.87452e-16	1.31257e-15	3.36485e-15	6.46501e-14	1.96126e-14

10.0000	5.28439e-15	1.65712e-14	4.92727e-14	1.94292e-12	3.74423e-13
1.00000	2.49871e-13	7.13231e-13	1.91618e-12	3.40119e-11	1.17111e-11
0.100000	5.31699e-12	1.30625e-11	3.02880e-11	2.27176e-10	1.39380e-10
0.0100000	3.67792e-11	7.82748e-11	1.58381e-10	5.63208e-10	5.67350e-10
0.00100000	8.54119e-11	1.65956e-10	3.09040e-10	6.69092e-10	9.58888e-10
0.000100000	1.03512e-10	1.95805e-10	3.56165e-10	6.51729e-10	1.06368e-09
1.00000e-05	1.06024e-10	1.99831e-10	3.62356e-10	6.47303e-10	1.07682e-09
1.00000e-06	1.06286e-10	2.00249e-10	3.62997e-10	6.46836e-10	1.07817e-09
1.00000e-07	1.06312e-10	2.00291e-10	3.63061e-10	6.46789e-10	1.07830e-09
1.00000e-08	1.06315e-10	2.00295e-10	3.63067e-10	6.46784e-10	1.07831e-09
1.00000e-09	1.06315e-10	2.00296e-10	3.63068e-10	6.46784e-10	1.07832e-09

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	3.89723e-15	2.94645e-10	5.11514e-08	1.45116e-06	1.85555e-05
1.00000e+07	4.82181e-12	1.84833e-07	1.02302e-05	6.34290e-05	0.000147331
1.00000e+06	6.12544e-10	4.07337e-06	0.000132115	0.000460024	0.000749556
100000.	3.82443e-09	4.16217e-06	0.000133477	0.000561879	0.000972834
10000.0	1.55299e-09	7.24972e-07	3.45525e-05	0.000277362	0.000674864
1000.00	1.53235e-10	8.77156e-08	8.97618e-06	0.000121923	0.000365120
100.000	9.99062e-11	3.08108e-08	2.82054e-06	4.13100e-05	0.000130116
10.0000	1.39094e-09	1.16559e-07	2.33945e-06	1.82459e-05	6.11910e-05
1.00000	9.97872e-09	3.72979e-07	3.80285e-06	1.84073e-05	5.60132e-05
0.100000	2.89223e-08	6.09134e-07	4.58340e-06	1.92441e-05	5.61043e-05
0.0100000	4.22468e-08	6.89271e-07	4.74448e-06	1.93864e-05	5.61411e-05
0.00100000	4.51672e-08	7.01256e-07	4.76365e-06	1.94018e-05	5.61453e-05
0.000100000	4.54098e-08	7.02442e-07	4.76556e-06	1.94034e-05	5.61457e-05
1.00000e-05	4.54278e-08	7.02557e-07	4.76575e-06	1.94035e-05	5.61457e-05
1.00000e-06	4.54296e-08	7.02569e-07	4.76577e-06	1.94036e-05	5.61457e-05
1.00000e-07	4.54297e-08	7.02570e-07	4.76577e-06	1.94036e-05	5.61457e-05
1.00000e-08	4.54297e-08	7.02570e-07	4.76577e-06	1.94036e-05	5.61457e-05
1.00000e-09	4.54297e-08	7.02570e-07	4.76577e-06	1.94036e-05	5.61457e-05

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	7.93979e-05	0.000140878	0.000186144	0.000205492	0.000207350
1.00000e+07	0.000255491	0.000470913	0.000820356	0.00113989	0.00133365
1.00000e+06	0.000993808	0.00130348	0.00178002	0.00224777	0.00256063
100000.	0.00129241	0.00157411	0.00187887	0.00219931	0.00247369
10000.0	0.000982864	0.00117406	0.00133832	0.00152174	0.00168781
1000.00	0.000535890	0.000625086	0.000727051	0.000870269	0.00103570
100.000	0.000210797	0.000307459	0.000450415	0.000634146	0.000841862
10.0000	0.000134277	0.000247802	0.000404750	0.000596998	0.000811787
1.00000	0.000127904	0.000242345	0.000399869	0.000592519	0.000807865
0.100000	0.000127535	0.000241861	0.000399362	0.000592031	0.000807430
0.0100000	0.000127507	0.000241814	0.000399312	0.000591983	0.000807387
0.00100000	0.000127504	0.000241810	0.000399307	0.000591978	0.000807383
0.000100000	0.000127504	0.000241809	0.000399306	0.000591978	0.000807383
1.00000e-05	0.000127504	0.000241809	0.000399306	0.000591978	0.000807383
1.00000e-06	0.000127504	0.000241809	0.000399306	0.000591978	0.000807383
1.00000e-07	0.000127504	0.000241809	0.000399306	0.000591978	0.000807383
1.00000e-08	0.000127504	0.000241809	0.000399306	0.000591978	0.000807383
1.00000e-09	0.000127504	0.000241809	0.000399306	0.000591978	0.000807383

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.000206233	0.000202952	0.00902394	0.00998758	0.0106862
1.00000e+07	0.00143543	0.00147629	0.0151909	0.0151105	0.0141267
1.00000e+06	0.00274038	0.00283729	0.0150010	0.0137259	0.0120634
100000.	0.00265626	0.00275717	0.0105652	0.00879615	0.00752825
10000.0	0.00180464	0.00188936	0.00459086	0.00409183	0.00443519
1000.00	0.00120878	0.00139057	0.00218513	0.00280387	0.00380868
100.000	0.00106098	0.00128699	0.00181006	0.00264159	0.00373920
10.0000	0.00103804	0.00127093	0.00176854	0.00262506	0.00373239
1.00000	0.00103485	0.00126858	0.00176413	0.00262340	0.00373172
0.100000	0.00103449	0.00126831	0.00176368	0.00262323	0.00373166
0.0100000	0.00103446	0.00126828	0.00176364	0.00262322	0.00373165
0.00100000	0.00103445	0.00126828	0.00176363	0.00262322	0.00373165
0.000100000	0.00103445	0.00126828	0.00176363	0.00262322	0.00373165
1.00000e-05	0.00103445	0.00126828	0.00176363	0.00262322	0.00373165
1.00000e-06	0.00103445	0.00126828	0.00176363	0.00262322	0.00373165
1.00000e-07	0.00103445	0.00126828	0.00176363	0.00262322	0.00373165
1.00000e-08	0.00103445	0.00126828	0.00176363	0.00262322	0.00373165
1.00000e-09	0.00103445	0.00126828	0.00176363	0.00262322	0.00373165

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.0109217	0.0106496	0.00999043	0.00914564	0.00828853
1.00000e+07	0.0126339	0.0110826	0.00974072	0.00868103	0.00787063
1.00000e+06	0.0104676	0.00922185	0.00835636	0.00776977	0.00734242

100000.	0.00693031	0.00684114	0.00693995	0.00701303	0.00698025
10000.0	0.00519261	0.00597176	0.00654177	0.00684496	0.00691651
1000.00	0.00491527	0.00585597	0.00649583	0.00682798	0.00691110
100.000	0.00488680	0.00584468	0.00649155	0.00682649	0.00691069
10.0000	0.00488406	0.00584360	0.00649115	0.00682636	0.00691065
1.00000	0.00488379	0.00584350	0.00649111	0.00682634	0.00691065
0.100000	0.00488377	0.00584349	0.00649110	0.00682634	0.00691065
0.0100000	0.00488376	0.00584349	0.00649110	0.00682634	0.00691065
0.00100000	0.00488376	0.00584349	0.00649110	0.00682634	0.00691065
0.000100000	0.00488376	0.00584349	0.00649110	0.00682634	0.00691065
1.00000e-05	0.00488376	0.00584349	0.00649110	0.00682634	0.00691065
1.00000e-06	0.00488376	0.00584349	0.00649110	0.00682634	0.00691065
1.00000e-07	0.00488376	0.00584349	0.00649110	0.00682634	0.00691065
1.00000e-08	0.00488376	0.00584349	0.00649110	0.00682634	0.00691065
1.00000e-09	0.00488376	0.00584349	0.00649110	0.00682634	0.00691065

Pa\K	3750.00	4000.00
1.00000e+08	0.00751750	0.00686637
1.00000e+07	0.00724698	0.00675315
1.00000e+06	0.00698934	0.00666589
100000.	0.00684006	0.00662116
10000.0	0.00682065	0.00661913
1000.00	0.00681962	0.00661958
100.000	0.00681959	0.00661967
10.0000	0.00681959	0.00661968
1.00000	0.00681959	0.00661968
0.100000	0.00681959	0.00661968
0.0100000	0.00681959	0.00661968
0.00100000	0.00681959	0.00661968
0.000100000	0.00681959	0.00661968
1.00000e-05	0.00681959	0.00661968
1.00000e-06	0.00681959	0.00661968
1.00000e-07	0.00681959	0.00661968
1.00000e-08	0.00681959	0.00661968
1.00000e-09	0.00681959	0.00661968

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	2.92319e-40	1.09158e-38	1.04125e-37	6.22474e-37	3.01419e-36
1.00000e+07	2.19715e-35	6.63428e-34	5.40197e-33	2.85075e-32	1.24702e-31
1.00000e+06	6.07207e-31	1.25440e-29	8.39297e-29	3.89988e-28	1.55584e-27
100000.	5.45902e-27	8.15086e-26	4.45217e-25	1.78203e-24	6.33069e-24
10000.0	1.38039e-23	1.31958e-22	5.65814e-22	1.92531e-21	6.07465e-21
1000.00	7.82365e-21	4.33756e-20	1.33441e-19	3.61470e-19	9.72190e-19
100.000	5.28473e-19	1.40963e-18	3.00330e-18	6.60203e-18	1.58889e-17
10.0000	3.60108e-18	5.82665e-18	1.03534e-17	2.11511e-17	5.04502e-17
1.00000	1.52273e-17	3.58184e-17	7.07710e-17	1.42702e-16	3.19145e-16
0.100000	9.30927e-17	1.28507e-16	1.77009e-16	2.81507e-16	5.75821e-16
0.0100000	4.72937e-17	2.73601e-17	2.75588e-17	4.34430e-17	1.57746e-16
0.00100000	3.38142e-18	2.01622e-18	2.25315e-18	6.03685e-18	8.50060e-17
0.000100000	2.99010e-19	1.91015e-19	2.31332e-19	2.69416e-18	7.78404e-17
1.00000e-05	3.52836e-20	3.20977e-20	6.02495e-20	2.41698e-18	7.72572e-17
1.00000e-06	3.59059e-20	5.21976e-20	9.09843e-20	2.46127e-18	7.73472e-17
1.00000e-07	2.79413e-20	1.96506e-20	3.23489e-20	2.35297e-18	7.71331e-17
1.00000e-08	3.05499e-21	1.82339e-21	1.34141e-20	2.32529e-18	7.70813e-17
1.00000e-09	2.78579e-22	1.74709e-22	1.16620e-20	2.32260e-18	7.70760e-17

Pa\K	70.0000	80.0000	90.0000	100.0000	110.0000
1.00000e+08	1.32334e-35	5.57023e-35	2.30089e-34	9.37201e-34	3.75528e-33
1.00000e+07	5.03174e-31	1.97134e-30	7.63776e-30	2.92705e-29	1.10371e-28
1.00000e+06	5.84875e-27	2.16312e-26	7.96154e-26	2.90087e-25	1.03745e-24
100000.	2.16940e-23	7.42629e-23	2.54502e-22	8.61746e-22	2.84690e-21
10000.0	1.90285e-20	6.05825e-20	1.93932e-19	6.09554e-19	1.84832e-18
1000.00	2.73397e-18	8.07254e-18	2.41133e-17	6.98115e-17	1.91344e-16
100.000	4.31366e-17	1.28207e-16	3.83331e-16	1.07921e-15	2.79628e-15
10.0000	1.46340e-16	4.81835e-16	1.55536e-15	4.54783e-15	1.19211e-14
1.00000	8.54276e-16	2.64863e-15	8.29438e-15	2.39281e-14	6.21996e-14
0.100000	1.71481e-15	6.28806e-15	2.16942e-14	6.42517e-14	1.64279e-13
0.0100000	1.06954e-15	5.97682e-15	2.41676e-14	7.55827e-14	1.95810e-13
0.00100000	9.33121e-16	5.82376e-15	2.42997e-14	7.67740e-14	1.99477e-13
0.000100000	9.18861e-16	5.80692e-15	2.43116e-14	7.68960e-14	1.99860e-13
1.00000e-05	9.17852e-16	5.80680e-15	2.43186e-14	7.69272e-14	1.99953e-13
1.00000e-06	9.18285e-16	5.80914e-15	2.43282e-14	7.69573e-14	2.00031e-13
1.00000e-07	9.17926e-16	5.80894e-15	2.43295e-14	7.69635e-14	2.00048e-13
1.00000e-08	9.17829e-16	5.80882e-15	2.43295e-14	7.69640e-14	2.00050e-13
1.00000e-09	9.17819e-16	5.80880e-15	2.43295e-14	7.69641e-14	2.00050e-13

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.47545e-32	5.67270e-32	2.13224e-31	7.83318e-31	2.81255e-30
1.00000e+07	4.07719e-28	1.47249e-27	5.19614e-27	1.79179e-26	6.03930e-26
1.00000e+06	3.62132e-24	1.23081e-23	4.07132e-23	1.31106e-22	4.11217e-22
100000.	9.11785e-21	2.82673e-20	8.48973e-20	2.47372e-19	7.00230e-19
10000.0	5.36760e-18	1.49209e-17	3.97956e-17	1.02146e-16	2.53049e-16
1000.00	4.93843e-16	1.20471e-15	2.79611e-15	6.21537e-15	1.33065e-14
100.000	6.68540e-15	1.49158e-14	3.14356e-14	6.32428e-14	1.22476e-13
10.0000	2.84515e-14	6.30551e-14	1.31993e-13	2.64388e-13	5.11493e-13
1.00000	1.46979e-13	3.20828e-13	6.56630e-13	1.27520e-12	2.37103e-12
0.100000	3.72635e-13	7.69954e-13	1.48011e-12	2.68964e-12	4.67504e-12
0.0100000	4.42205e-13	9.02708e-13	1.70908e-12	3.05627e-12	5.22979e-12
0.00100000	4.50500e-13	9.18551e-13	1.73617e-12	3.09913e-12	5.29383e-12
0.000100000	4.51378e-13	9.20260e-13	1.73918e-12	3.10411e-12	5.30176e-12
1.00000e-05	4.51610e-13	9.20769e-13	1.74022e-12	3.10608e-12	5.30531e-12
1.00000e-06	4.51782e-13	9.21110e-13	1.74083e-12	3.10711e-12	5.30695e-12
1.00000e-07	4.51820e-13	9.21181e-13	1.74095e-12	3.10730e-12	5.30723e-12
1.00000e-08	4.51824e-13	9.21189e-13	1.74097e-12	3.10732e-12	5.30726e-12
1.00000e-09	4.51824e-13	9.21190e-13	1.74097e-12	3.10733e-12	5.30726e-12

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	9.87124e-30	3.38707e-29	1.13646e-28	3.72976e-28	1.19777e-27
1.00000e+07	1.99014e-25	6.41288e-25	2.02094e-24	6.22942e-24	1.87854e-23
1.00000e+06	1.25687e-21	3.74523e-21	1.08848e-20	3.08684e-20	8.54643e-20
100000.	1.92766e-18	5.16488e-18	1.34773e-17	3.42688e-17	8.49557e-17
10000.0	6.06543e-16	1.40965e-15	3.18238e-15	6.99042e-15	1.49637e-14
1000.00	2.75623e-14	5.54355e-14	1.08572e-13	2.07539e-13	3.87922e-13
100.000	2.29810e-13	4.19919e-13	7.50175e-13	1.31441e-12	2.26447e-12
10.0000	9.61926e-13	1.76609e-12	3.17437e-12	5.59531e-12	9.68184e-12
1.00000	4.24906e-12	7.37552e-12	1.24472e-11	2.04833e-11	3.29462e-11
0.100000	7.84041e-12	1.27684e-11	2.02883e-11	3.15659e-11	4.82203e-11
0.0100000	8.64339e-12	1.38901e-11	2.18102e-11	3.35812e-11	5.08347e-11
0.00100000	8.73503e-12	1.40170e-11	2.19819e-11	3.38094e-11	5.11349e-11
0.000100000	8.74746e-12	1.40363e-11	2.20118e-11	3.38557e-11	5.12059e-11
1.00000e-05	8.75356e-12	1.40464e-11	2.20276e-11	3.38797e-11	5.12411e-11
1.00000e-06	8.75603e-12	1.40499e-11	2.20326e-11	3.38864e-11	5.12499e-11
1.00000e-07	8.75642e-12	1.40505e-11	2.20333e-11	3.38873e-11	5.12510e-11
1.00000e-08	8.75646e-12	1.40505e-11	2.20334e-11	3.38874e-11	5.12511e-11
1.00000e-09	8.75646e-12	1.40505e-11	2.20334e-11	3.38874e-11	5.12511e-11

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	3.76573e-27	1.15979e-26	3.50194e-26	1.03763e-25	3.02042e-25
1.00000e+07	5.54369e-23	1.60162e-22	4.53261e-22	1.25740e-21	3.42244e-21
1.00000e+06	2.31149e-19	6.11145e-19	1.58089e-18	4.00486e-18	9.94710e-18
100000.	2.05479e-16	4.85250e-16	1.11995e-15	2.52907e-15	5.59558e-15
10000.0	3.12619e-14	6.38381e-14	1.27613e-13	2.50115e-13	4.81418e-13
1000.00	7.10112e-13	1.27476e-12	2.24681e-12	3.89228e-12	6.63417e-12
100.000	3.84372e-12	6.43853e-12	1.06565e-11	1.74440e-11	2.82598e-11
10.0000	1.64556e-11	2.74813e-11	4.51044e-11	7.27665e-11	1.15414e-10
1.00000	5.18962e-11	8.01888e-11	1.21722e-10	1.81744e-10	2.67228e-10
0.100000	7.24751e-11	1.07350e-10	1.56902e-10	2.26528e-10	3.23334e-10
0.0100000	7.58074e-11	1.11533e-10	1.62085e-10	2.32879e-10	3.31045e-10
0.00100000	7.62001e-11	1.12047e-10	1.62760e-10	2.33772e-10	3.32234e-10
0.000100000	7.63080e-11	1.12208e-10	1.62998e-10	2.34113e-10	3.32713e-10
1.00000e-05	7.63580e-11	1.12277e-10	1.63090e-10	2.34233e-10	3.32866e-10
1.00000e-06	7.63692e-11	1.12291e-10	1.63107e-10	2.34254e-10	3.32891e-10
1.00000e-07	7.63705e-11	1.12293e-10	1.63109e-10	2.34256e-10	3.32893e-10
1.00000e-08	7.63707e-11	1.12293e-10	1.63109e-10	2.34256e-10	3.32894e-10
1.00000e-09	7.63707e-11	1.12293e-10	1.63109e-10	2.34256e-10	3.32894e-10

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	8.64875e-25	2.43975e-24	6.79132e-24	8.00125e-24	5.09005e-23
1.00000e+07	9.14994e-21	2.40606e-20	6.23281e-20	2.67276e-19	4.02761e-19
1.00000e+06	2.42554e-17	5.81577e-17	1.37369e-16	1.98197e-16	7.39117e-16
100000.	1.21492e-14	2.59355e-14	5.45569e-14	2.29020e-13	2.33482e-13
10000.0	9.11558e-13	1.70100e-12	3.13401e-12	2.63161e-12	1.03226e-11
1000.00	1.11362e-11	1.84279e-11	3.00898e-11	4.11445e-11	7.73822e-11
100.000	4.53281e-11	7.20020e-11	1.13275e-10	5.60519e-10	2.72315e-10
10.0000	1.80012e-10	2.76185e-10	4.16980e-10	9.28640e-10	9.07413e-10
1.00000	3.87333e-10	5.53949e-10	7.82360e-10	1.02163e-09	1.50743e-09
0.100000	4.56586e-10	6.38261e-10	8.83696e-10	1.02278e-09	1.64877e-09
0.0100000	4.65881e-10	6.49409e-10	8.97023e-10	1.02412e-09	1.66781e-09
0.00100000	4.67474e-10	6.51548e-10	8.99895e-10	1.02561e-09	1.67290e-09
0.000100000	4.68132e-10	6.52431e-10	9.01055e-10	1.02609e-09	1.67478e-09
1.00000e-05	4.68323e-10	6.52665e-10	9.01337e-10	1.02614e-09	1.67517e-09

1.00000e-06	4.68352e-10	6.52699e-10	9.01376e-10	1.02615e-09	1.67522e-09
1.00000e-07	4.68355e-10	6.52702e-10	9.01380e-10	1.02615e-09	1.67522e-09
1.00000e-08	4.68355e-10	6.52703e-10	9.01380e-10	1.02615e-09	1.67522e-09
1.00000e-09	4.68356e-10	6.52703e-10	9.01380e-10	1.02615e-09	1.67522e-09

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	2.73869e-14	1.10350e-09	1.62083e-07	3.21816e-06	1.39263e-05
1.00000e+07	4.29997e-11	5.28068e-07	2.62131e-05	0.000158690	0.000350618
1.00000e+06	7.72195e-09	1.40545e-05	0.000348015	0.00115063	0.00183145
100000.	1.05583e-07	2.75048e-05	0.000457166	0.00155203	0.00251301
10000.0	1.35681e-07	1.10219e-05	0.000179507	0.000917679	0.00192742
1000.00	5.13744e-08	2.70806e-06	5.95213e-05	0.000441226	0.00107520
100.000	2.69894e-08	7.62704e-07	1.67731e-05	0.000134506	0.000313591
10.0000	1.92394e-08	2.41661e-07	3.13615e-06	2.14857e-05	4.90437e-05
1.00000	1.67471e-08	1.49193e-07	9.67194e-07	4.58174e-06	1.23544e-05
0.100000	1.64430e-08	1.39598e-07	7.56880e-07	2.96490e-06	8.78133e-06
0.0100000	1.64524e-08	1.38822e-07	7.37090e-07	2.81267e-06	8.43966e-06
0.00100000	1.64645e-08	1.38764e-07	7.35154e-07	2.79789e-06	8.40643e-06
0.000100000	1.64667e-08	1.38760e-07	7.34962e-07	2.79643e-06	8.40316e-06
1.00000e-05	1.64669e-08	1.38759e-07	7.34943e-07	2.79629e-06	8.40283e-06
1.00000e-06	1.64669e-08	1.38759e-07	7.34941e-07	2.79627e-06	8.40280e-06
1.00000e-07	1.64670e-08	1.38759e-07	7.34941e-07	2.79627e-06	8.40280e-06
1.00000e-08	1.64670e-08	1.38759e-07	7.34941e-07	2.79627e-06	8.40280e-06
1.00000e-09	1.64670e-08	1.38759e-07	7.34941e-07	2.79627e-06	8.40280e-06

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	2.45693e-05	3.25303e-05	4.05701e-05	4.54761e-05	4.80529e-05
1.00000e+07	0.000504245	0.000656853	0.000868488	0.00106746	0.00121178
1.00000e+06	0.00236230	0.00288091	0.00345210	0.00392721	0.00424941
100000.	0.00323800	0.00380684	0.00424954	0.00453918	0.00466586
10000.0	0.00263119	0.00295353	0.00301577	0.00291756	0.00273061
1000.00	0.00138226	0.00134031	0.00116948	0.00100448	0.000908364
100.000	0.000347893	0.000301586	0.000271345	0.000291638	0.000374198
10.0000	6.08031e-05	7.55630e-05	0.000113115	0.000185780	0.000304797
1.00000	2.51088e-05	4.99639e-05	9.63794e-05	0.000175105	0.000298021
0.100000	2.16316e-05	4.74871e-05	9.47715e-05	0.000174084	0.000297375
0.0100000	2.12962e-05	4.72476e-05	9.46160e-05	0.000173986	0.000297313
0.00100000	2.12635e-05	4.72242e-05	9.46007e-05	0.000173976	0.000297307
0.000100000	2.12603e-05	4.72219e-05	9.45992e-05	0.000173975	0.000297306
1.00000e-05	2.12600e-05	4.72217e-05	9.45991e-05	0.000173975	0.000297306
1.00000e-06	2.12599e-05	4.72217e-05	9.45991e-05	0.000173975	0.000297306
1.00000e-07	2.12599e-05	4.72216e-05	9.45991e-05	0.000173975	0.000297306
1.00000e-08	2.12599e-05	4.72216e-05	9.45991e-05	0.000173975	0.000297306
1.00000e-09	2.12599e-05	4.72216e-05	9.45991e-05	0.000173975	0.000297306

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	5.10744e-05	5.46883e-05	0.00247366	0.00285332	0.00321319
1.00000e+07	0.00132713	0.00142295	0.00808360	0.00891518	0.00899218
1.00000e+06	0.00445490	0.00456432	0.0140360	0.0132455	0.0115212
100000.	0.00466167	0.00456751	0.0118115	0.00984306	0.00817873
10000.0	0.00252602	0.00236777	0.00518643	0.00480085	0.00507830
1000.00	0.000909808	0.00101904	0.00228138	0.00329707	0.00439993
100.000	0.000526028	0.000752129	0.00182206	0.00310263	0.00432307
10.0000	0.000481048	0.000723248	0.00177362	0.00308313	0.00431557
1.00000	0.000476753	0.000720536	0.00176887	0.00308123	0.00431484
0.100000	0.000476344	0.000720278	0.00176840	0.00308105	0.00431477
0.0100000	0.000476305	0.000720253	0.00176835	0.00308103	0.00431476
0.00100000	0.000476301	0.000720251	0.00176835	0.00308103	0.00431476
0.000100000	0.000476301	0.000720251	0.00176835	0.00308103	0.00431476
1.00000e-05	0.000476301	0.000720251	0.00176835	0.00308103	0.00431476
1.00000e-06	0.000476301	0.000720251	0.00176835	0.00308103	0.00431476
1.00000e-07	0.000476301	0.000720251	0.00176835	0.00308103	0.00431476
1.00000e-08	0.000476301	0.000720251	0.00176835	0.00308103	0.00431476
1.00000e-09	0.000476301	0.000720251	0.00176835	0.00308103	0.00431476

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00345940	0.00353059	0.00342137	0.00317806	0.00286447
1.00000e+07	0.00832133	0.00722457	0.00604283	0.00497471	0.00408467
1.00000e+06	0.00951544	0.00771844	0.00628195	0.00516813	0.00429048
100000.	0.00700055	0.00618431	0.00550366	0.00484888	0.00420482
10000.0	0.00541327	0.00547983	0.00522947	0.00475960	0.00418652
1000.00	0.00514395	0.00538250	0.00519814	0.00475180	0.00418629
100.000	0.00511620	0.00537323	0.00519544	0.00475129	0.00418642
10.0000	0.00511355	0.00537237	0.00519520	0.00475125	0.00418645
1.00000	0.00511329	0.00537229	0.00519518	0.00475125	0.00418645
0.100000	0.00511327	0.00537228	0.00519518	0.00475125	0.00418645

0.0100000	0.00511327	0.00537228	0.00519518	0.00475125	0.00418645
0.00100000	0.00511327	0.00537228	0.00519518	0.00475125	0.00418645
0.000100000	0.00511327	0.00537228	0.00519518	0.00475125	0.00418645
1.00000e-05	0.00511327	0.00537228	0.00519518	0.00475125	0.00418645
1.00000e-06	0.00511327	0.00537228	0.00519518	0.00475125	0.00418645
1.00000e-07	0.00511327	0.00537228	0.00519518	0.00475125	0.00418645
1.00000e-08	0.00511327	0.00537228	0.00519518	0.00475125	0.00418645
1.00000e-09	0.00511327	0.00537228	0.00519518	0.00475125	0.00418645

Pa\K | 3750.00 4000.00

1.00000e+08	0.00253338	0.00221746
1.00000e+07	0.00336676	0.00279179
1.00000e+06	0.00357834	0.00298777
100000.	0.00359180	0.00303218
10000.0	0.00359683	0.00304245
1000.00	0.00359855	0.00304427
100.000	0.00359880	0.00304451
10.0000	0.00359884	0.00304453
1.00000	0.00359884	0.00304454
0.100000	0.00359884	0.00304454
0.0100000	0.00359884	0.00304454
0.00100000	0.00359884	0.00304454
0.000100000	0.00359884	0.00304454
1.00000e-05	0.00359884	0.00304454
1.00000e-06	0.00359884	0.00304454
1.00000e-07	0.00359884	0.00304454
1.00000e-08	0.00359884	0.00304454
1.00000e-09	0.00359884	0.00304454

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08	8.16642e-18	1.03761e-16	4.10078e-16	1.05054e-15	2.16089e-15
1.00000e+07	1.55471e-14	1.12956e-13	3.50568e-13	7.90156e-13	1.50706e-12
1.00000e+06	9.43727e-12	6.56881e-11	1.98850e-10	4.37683e-10	8.15053e-10
100000.	4.59559e-09	2.62313e-08	6.74325e-08	1.29359e-07	2.14045e-07
10000.0	8.22739e-07	3.24830e-06	6.99732e-06	1.20086e-05	1.82972e-05
1000.00	5.54916e-05	0.000159561	0.000270211	0.000378977	0.000483831
100.000	0.000819494	0.00116160	0.00127465	0.00130133	0.00128983
10.0000	0.00100589	0.000621519	0.000432943	0.000337348	0.000286951
1.00000	0.000212865	0.000200355	0.000187718	0.000175054	0.000163509
0.100000	0.000117240	7.11618e-05	4.75519e-05	3.33207e-05	2.40552e-05
0.0100000	6.36146e-06	9.72574e-07	2.66266e-07	9.80961e-08	4.33304e-08
0.00100000	2.86291e-09	1.64863e-10	3.25357e-11	1.04536e-11	4.35860e-12
0.000100000	2.98598e-13	2.23907e-14	5.42406e-15	2.04125e-15	9.67835e-16
1.00000e-05	1.01772e-16	1.17493e-17	3.62676e-18	1.61630e-18	8.73193e-19
1.00000e-06	1.39140e-19	2.38043e-20	9.08386e-21	4.67812e-21	2.82273e-21
1.00000e-07	6.33704e-22	1.51154e-22	6.91554e-23	4.10188e-23	2.75310e-23
1.00000e-08	8.59859e-24	2.81364e-24	1.62664e-24	1.05041e-24	8.89406e-25
1.00000e-09	3.51833e-25	1.20520e-25	1.12492e-25	1.03653e-25	2.98265e-26

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08	3.91002e-15	6.52559e-15	1.03274e-14	1.57744e-14	2.35352e-14
1.00000e+07	2.59957e-12	4.20164e-12	6.50079e-12	9.76419e-12	1.43773e-11
1.00000e+06	1.37176e-09	2.16121e-09	3.25532e-09	4.75250e-09	6.78865e-09
100000.	3.24774e-07	4.66399e-07	6.45728e-07	8.72065e-07	1.15796e-06
10000.0	2.59335e-05	3.50420e-05	4.58012e-05	5.84447e-05	7.32641e-05
1000.00	0.000584541	0.000681469	0.000775126	0.000865996	0.000954475
100.000	0.00125989	0.00122068	0.00117681	0.00113073	0.00108381
10.0000	0.000259852	0.000245331	0.000237828	0.000234317	0.000233083
1.00000	0.000153134	0.000143744	0.000135137	0.000127143	0.000119623
0.100000	1.77329e-05	1.32759e-05	1.00568e-05	7.68813e-06	5.91962e-06
0.0100000	2.16341e-08	1.17947e-08	6.86841e-09	4.20887e-09	2.68555e-09
0.00100000	2.13641e-12	1.16860e-12	6.91712e-13	4.34465e-13	2.85783e-13
0.000100000	5.28986e-16	3.18281e-16	2.05230e-16	1.39455e-16	9.87543e-17
1.00000e-05	5.31270e-19	3.50493e-19	2.45185e-19	1.79471e-19	1.36315e-19
1.00000e-06	1.88037e-21	1.34180e-21	1.00587e-21	7.84678e-22	6.34827e-22
1.00000e-07	1.98423e-23	1.52879e-23	1.23110e-23	1.06089e-23	9.08450e-24
1.00000e-08	7.62085e-25	5.14197e-25	4.53701e-25	4.22585e-25	3.62169e-25
1.00000e-09	3.45372e-26	6.83453e-26	1.14703e-26	1.16522e-26	2.56261e-26

Pa\K | 120.000 130.000 140.000 150.000 160.000

1.00000e+08	3.45924e-14	5.04027e-14	7.31372e-14	1.06049e-13	1.54029e-13
1.00000e+07	2.09018e-11	3.01617e-11	4.33722e-11	6.23319e-11	8.97096e-11
1.00000e+06	9.55245e-09	1.33065e-08	1.84167e-08	2.53920e-08	3.49399e-08
100000.	1.52021e-06	1.98118e-06	2.57053e-06	3.32734e-06	4.30285e-06

10000.0	9.06115e-05	0.000110901	0.000134609	0.000162270	0.000194475
1000.00	0.00104084	0.00112527	0.00120780	0.00128838	0.00136684
100.000	0.00103688	0.000990452	0.000944916	0.000900579	0.000857726
10.0000	0.000233122	0.000233824	0.000234814	0.000235851	0.000236779
1.00000	0.000112472	0.000105611	9.89832e-05	9.25485e-05	8.62837e-05
0.100000	4.58377e-06	3.56533e-06	2.78308e-06	2.17866e-06	1.70942e-06
0.0100000	1.77058e-09	1.19924e-09	8.30806e-10	5.86711e-10	4.21251e-10
0.00100000	1.95069e-13	1.37269e-13	9.91178e-14	7.31944e-14	5.51528e-14
0.000100000	7.23416e-17	5.45510e-17	4.22116e-17	3.34603e-17	2.71612e-17
1.00000e-05	1.06799e-19	8.60707e-20	7.13089e-20	6.07106e-20	5.32286e-20
1.00000e-06	5.27537e-22	4.53884e-22	4.02211e-22	3.69546e-22	3.53509e-22
1.00000e-07	8.28278e-24	7.70967e-24	7.48525e-24	7.78457e-24	8.32789e-24
1.00000e-08	4.24248e-25	3.84510e-25	4.69449e-25	4.93383e-25	6.26260e-25
1.00000e-09	8.03894e-26	2.31172e-26	1.15272e-26	1.37583e-25	3.92739e-26

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.24454e-13	3.28471e-13	4.82946e-13	7.13408e-13	1.05849e-12
1.00000e+07	1.29470e-10	1.87503e-10	2.72558e-10	3.97604e-10	5.81823e-10
1.00000e+06	4.80413e-08	6.60527e-08	9.08440e-08	1.24984e-07	1.71986e-07
100000.	5.56378e-06	7.19640e-06	9.31133e-06	1.20491e-05	1.55866e-05
10000.0	0.000231857	0.000275082	0.000324833	0.000381784	0.000446587
1000.00	0.00144296	0.00151640	0.00158678	0.00165368	0.00171663
100.000	0.000816631	0.000777567	0.000740798	0.000706574	0.000675114
10.0000	0.000237494	0.000237921	0.000238008	0.000237715	0.000237010
1.00000	0.01787e-05	7.42346e-05	6.84609e-05	6.28735e-05	5.74925e-05
0.100000	1.34374e-06	1.05793e-06	8.34022e-07	6.58289e-07	5.20175e-07
0.0100000	3.06882e-10	2.26491e-10	1.69158e-10	1.27755e-10	9.75271e-11
0.00100000	4.23473e-14	3.31138e-14	2.63755e-14	2.14201e-14	1.77672e-14
0.000100000	2.25926e-17	1.92938e-17	1.69612e-17	1.54060e-17	1.45154e-17
1.00000e-05	4.82448e-20	4.53338e-20	4.43859e-20	4.55035e-20	4.90169e-20
1.00000e-06	3.53562e-22	3.71652e-22	4.11036e-22	4.81125e-22	6.01730e-22
1.00000e-07	9.37310e-24	1.12049e-23	1.42963e-23	1.89689e-23	2.62555e-23
1.00000e-08	6.39714e-25	8.76028e-25	1.13455e-24	1.09569e-24	2.09346e-24
1.00000e-09	1.41167e-26	1.46831e-26	8.11314e-27	1.05842e-25	6.95651e-26

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.57657e-12	2.35578e-12	3.52881e-12	5.29488e-12	7.95222e-12
1.00000e+07	8.53494e-10	1.25415e-09	1.84449e-09	2.71284e-09	3.98695e-09
1.00000e+06	2.36641e-07	3.25445e-07	4.47166e-07	6.13580e-07	8.40411e-07
100000.	2.01437e-05	2.59912e-05	3.34580e-05	4.29387e-05	5.49006e-05
10000.0	0.000519835	0.00062045	0.000693625	0.000794850	0.000905838
1000.00	0.00177514	0.00182871	0.00187685	0.00191909	0.00195501
100.000	0.000646600	0.000621162	0.000598874	0.000579750	0.000563741
10.0000	0.000235864	0.000234255	0.000232162	0.000229567	0.000226458
1.00000	5.23392e-05	4.74351e-05	4.27993e-05	3.84476e-05	3.43915e-05
0.100000	4.11509e-07	3.25939e-07	2.58512e-07	2.05349e-07	1.63413e-07
0.0100000	7.52510e-11	5.87029e-11	4.63286e-11	3.70287e-11	3.00175e-11
0.00100000	1.50890e-14	1.31616e-14	1.18341e-14	1.10095e-14	1.06347e-14
0.000100000	1.42453e-17	1.46101e-17	1.56942e-17	1.76724e-17	2.08462e-17
1.00000e-05	5.55689e-20	6.64172e-20	8.36526e-20	1.10746e-19	1.53812e-19
1.00000e-06	7.86899e-22	1.09419e-21	1.59567e-21	2.45107e-21	3.92995e-21
1.00000e-07	3.70601e-23	5.84592e-23	9.09087e-23	1.50844e-22	2.66726e-22
1.00000e-08	2.52347e-24	3.56880e-24	5.18932e-24	1.31757e-23	2.58541e-23
1.00000e-09	1.18155e-25	1.00915e-25	7.93935e-26	1.09474e-25	1.57967e-25

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	1.19456e-11	1.79361e-11	2.69019e-11	2.82669e-10	6.02017e-11
1.00000e+07	5.85055e-09	8.56632e-09	1.25073e-08	7.01846e-08	2.63831e-08
1.00000e+06	1.14852e-06	1.56544e-06	2.12721e-06	5.73795e-06	3.88638e-06
100000.	6.98894e-05	8.85335e-05	0.000111546	0.000157280	0.000173939
10000.0	0.00102653	0.00115666	0.00129576	0.000893614	0.00159785
1000.00	0.00198423	0.00200647	0.00202154	0.000912737	0.00203007
100.000	0.000550742	0.000540596	0.000533101	0.000284829	0.000525097
10.0000	0.000222827	0.000218675	0.000214007	0.000106158	0.000203197
1.00000	3.06376e-05	2.71877e-05	2.40388e-05	1.06408e-05	1.86106e-05
0.100000	1.30316e-07	1.04184e-07	8.35409e-08	8.02550e-08	5.43282e-08
0.0100000	2.47290e-11	2.07535e-11	1.77940e-11	1.31024e-10	1.41289e-11
0.00100000	1.06950e-14	1.12144e-14	1.22622e-14	6.15401e-13	1.65306e-14
0.000100000	2.57141e-17	3.30903e-17	4.43177e-17	1.08799e-14	8.88034e-17
1.00000e-05	2.23595e-19	3.40023e-19	5.38892e-19	5.21867e-16	1.52381e-18
1.00000e-06	6.60000e-21	1.15018e-20	2.07817e-20	4.28487e-17	7.47329e-20
1.00000e-07	4.50361e-22	8.39288e-22	1.56163e-21	4.17759e-18	6.27114e-21
1.00000e-08	4.49982e-23	5.80779e-23	1.32385e-22	3.15586e-19	7.60432e-22
1.00000e-09	6.00355e-25	6.42723e-25	1.13041e-24	4.26409e-20	1.88591e-24

Pa\K	400.000	500.000	600.000	700.000	800.000
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1.00000e+08	1.11132e-08	3.86339e-07	1.15073e-05	0.000212062	0.00103944
1.00000e+07	1.67010e-06	2.51043e-05	0.000204668	0.00101651	0.00252316
1.00000e+06	6.76105e-05	0.000372491	0.000804889	0.00108848	0.00153531
100000.	0.000688820	0.00131154	0.00124933	0.000732609	0.000555242
10000.0	0.00137935	0.00132081	0.000970465	0.000509490	0.000316906
1000.00	0.000781236	0.000736168	0.000604585	0.000323320	0.000182040
100.000	0.000303224	0.000319438	0.000242172	0.000114220	5.44740e-05
10.0000	7.55970e-05	5.61116e-05	3.67784e-05	1.63752e-05	7.28708e-06
1.00000	3.77378e-06	2.65739e-06	2.48436e-06	1.41128e-06	6.92561e-07
0.100000	3.16105e-08	8.54119e-08	1.64357e-07	1.20957e-07	6.49757e-08
0.0100000	4.55335e-10	4.63333e-09	1.30442e-08	1.10294e-08	6.23826e-09
0.00100000	1.75663e-11	3.27557e-10	1.13879e-09	1.04282e-09	6.08268e-10
0.000100000	1.01991e-12	2.66302e-11	1.05099e-10	1.00868e-10	5.99214e-11
1.00000e-05	8.26928e-14	2.46466e-12	1.02015e-11	9.96364e-11	5.95939e-12
1.00000e-06	7.86463e-15	2.42065e-13	1.01297e-12	9.93433e-13	5.95143e-13
1.00000e-07	7.75233e-16	2.40794e-14	1.01204e-13	9.93034e-14	5.95166e-14
1.00000e-08	6.88549e-17	2.29753e-15	1.01286e-14	9.88815e-15	5.94825e-15
1.00000e-09	2.32012e-18	2.76252e-16	1.05592e-15	9.76695e-16	6.17017e-16

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.00180292	0.00224555	0.00261695	0.00274739	0.00273138
1.00000e+07	0.00357882	0.00436235	0.00535715	0.00614933	0.00656498
1.00000e+06	0.00187018	0.00212578	0.00236859	0.00251967	0.00257742
100000.	0.000552825	0.000583212	0.000610401	0.000622518	0.000618447
10000.0	0.000271118	0.000258374	0.000246837	0.000229398	0.000205519
1000.00	0.000131439	0.000103708	8.15331e-05	6.24316e-05	4.64918e-05
100.000	3.15203e-05	2.01132e-05	1.31813e-05	8.70281e-06	5.76875e-06
10.0000	3.81584e-06	2.24083e-06	1.38287e-06	8.76141e-07	5.65221e-07
1.00000	3.70264e-07	2.17331e-07	1.33597e-07	8.43879e-08	5.43672e-08
0.100000	3.56704e-08	2.10875e-08	1.29934e-08	8.21858e-09	5.30171e-09
0.0100000	3.48049e-09	2.06800e-09	1.27691e-09	8.08721e-10	5.22246e-10
0.00100000	3.42783e-10	2.04341e-10	1.26350e-10	8.00910e-11	5.17528e-11
0.000100000	3.39724e-11	2.02926e-11	1.25586e-11	7.96479e-12	5.14859e-12
1.00000e-05	3.38648e-12	2.02446e-12	1.25336e-12	7.95085e-13	5.14050e-13
1.00000e-06	3.38393e-13	2.02338e-13	1.25281e-13	7.94787e-14	5.13889e-14
1.00000e-07	3.38334e-14	2.02304e-14	1.25281e-14	7.94739e-15	5.13802e-15
1.00000e-08	3.38024e-15	2.02190e-15	1.25365e-15	7.94786e-16	5.13778e-16
1.00000e-09	3.42885e-16	2.04613e-16	1.25988e-16	7.96460e-17	5.13329e-17

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00274543	0.00279412	0.000372219	0.000395635	0.000416090
1.00000e+07	0.00680063	0.00692738	0.000233035	0.000245426	0.000238128
1.00000e+06	0.00257491	0.00252324	0.000180779	0.000163142	0.000133498
100000.	0.000598869	0.000565064	0.000113325	8.04840e-05	5.17074e-05
10000.0	0.000177291	0.000147640	3.53980e-05	1.83758e-05	9.08799e-06
1000.00	3.38463e-05	2.42474e-05	5.19271e-06	2.25093e-06	9.95367e-07
100.000	3.84313e-06	2.57815e-06	5.45117e-07	2.26710e-07	9.82979e-08
10.0000	3.70212e-07	2.45914e-07	5.38520e-08	2.23346e-08	9.67567e-09
1.00000	3.56101e-08	2.36730e-08	5.32265e-09	2.20978e-09	9.57978e-10
0.100000	3.47709e-09	2.31422e-09	5.28485e-10	2.19551e-10	9.52217e-11
0.0100000	3.42817e-10	2.28328e-10	5.26240e-11	2.18685e-11	9.48686e-12
0.00100000	3.39888e-11	2.26462e-11	5.24910e-12	2.18169e-12	9.46579e-13
0.000100000	3.38234e-12	2.25411e-12	5.24487e-13	2.18011e-13	9.45963e-14
1.00000e-05	3.37749e-13	2.25112e-13	5.24406e-14	2.17981e-14	9.45854e-15
1.00000e-06	3.37655e-14	2.25060e-14	5.24379e-15	2.17974e-15	9.45798e-16
1.00000e-07	3.37659e-15	2.25021e-15	5.24397e-16	2.18001e-16	9.45687e-17
1.00000e-08	3.37337e-16	2.24901e-16	5.24287e-17	2.17701e-17	9.45782e-18
1.00000e-09	3.20338e-17	2.13641e-17	5.14600e-18	2.13988e-18	9.28815e-19

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.000422520	0.000409577	0.000378812	0.000336880	0.000291213
1.00000e+07	0.000212878	0.000177644	0.000141266	0.000109008	8.26376e-05
1.00000e+06	0.000101205	7.17804e-05	4.84818e-05	3.17258e-05	2.03925e-05
100000.	3.07139e-05	1.72611e-05	9.45097e-06	5.15684e-06	2.84456e-06
10000.0	4.39744e-06	2.12926e-06	1.05089e-06	5.34062e-07	2.80584e-07
1000.00	4.51166e-07	2.10735e-07	1.01980e-07	5.12559e-08	2.67518e-08
100.000	4.41472e-08	2.05385e-08	9.92213e-09	4.98324e-09	2.59993e-09
10.0000	4.34421e-09	2.02114e-09	9.76588e-10	4.90572e-10	2.55991e-10
1.00000	4.30270e-10	2.00235e-10	9.67705e-11	4.86191e-11	2.53739e-11
0.100000	4.27786e-11	1.99112e-11	9.62403e-12	4.83578e-12	2.52397e-12
0.0100000	4.26259e-12	1.98420e-12	9.59136e-13	4.81967e-13	2.51570e-13
0.00100000	4.25354e-13	1.98014e-13	9.57232e-14	4.81036e-14	2.51095e-14
0.000100000	4.25099e-14	1.97903e-14	9.56726e-15	4.80795e-15	2.50975e-15
1.00000e-05	4.25054e-15	1.97883e-15	9.56638e-16	4.80753e-16	2.50954e-16
1.00000e-06	4.25028e-16	1.97884e-16	9.56605e-17	4.80745e-17	2.50944e-17
1.00000e-07	4.25028e-17	1.97886e-17	9.56565e-18	4.80729e-18	2.51022e-18
1.00000e-08	4.24744e-18	1.97566e-18	9.54383e-19	4.79499e-19	2.50156e-19

1.00000e-09 | 4.17501e-19 1.94406e-19 9.39973e-20 4.72437e-20 2.46637e-20

Pa\K | 3750.00 4000.00

1.00000e+08 | 0.000247195 0.000207680
1.00000e+07 | 6.20281e-05 4.63410e-05
1.00000e+06 | 1.30109e-05 8.30739e-06
100000. | 1.59921e-06 9.20317e-07
10000.0 | 1.52468e-07 8.55980e-08
1000.00 | 1.44738e-08 8.09877e-09
100.000 | 1.40629e-09 7.86638e-10
10.0000 | 1.38482e-10 7.74675e-11
1.00000 | 1.37278e-11 7.68000e-12
0.100000 | 1.36561e-12 7.64032e-13
0.0100000 | 1.36119e-13 7.61589e-14
0.00100000 | 1.35868e-14 7.60212e-15
0.000100000 | 1.35806e-15 7.59876e-16
1.00000e-05 | 1.35795e-16 7.59818e-17
1.00000e-06 | 1.35792e-17 7.59812e-18
1.00000e-07 | 1.35802e-18 7.59765e-19
1.00000e-08 | 1.35633e-19 7.58509e-20
1.00000e-09 | 1.33468e-20 7.46835e-21

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08 | 2.05236e-45 4.24110e-44 3.32842e-43 1.98995e-42 1.10014e-41
1.00000e+07 | 1.88102e-41 3.71000e-40 2.82945e-39 1.65774e-38 9.02723e-38
1.00000e+06 | 1.49819e-37 2.82622e-36 2.06780e-35 1.16355e-34 6.10049e-34
100000. | 8.15424e-34 1.11164e-32 6.50099e-32 3.10046e-31 1.43177e-30
10000.0 | 1.13546e-30 9.34632e-30 4.06687e-29 1.57782e-28 6.26413e-28
1000.00 | 2.26497e-28 8.69737e-28 2.48488e-27 7.48791e-27 2.56791e-26
100.000 | 3.12162e-27 6.11859e-27 1.33349e-26 3.52280e-26 1.12240e-25
10.0000 | 9.06714e-27 2.25087e-26 5.28742e-26 1.28692e-25 3.47374e-25
1.00000 | 7.72565e-26 1.37014e-25 2.29963e-25 4.24850e-25 9.12451e-25
0.100000 | 7.31454e-26 3.25898e-26 2.31583e-26 2.46311e-26 3.89072e-26
0.0100000 | 5.50610e-28 1.29826e-28 1.00011e-28 1.45336e-28 3.80504e-28
0.00100000 | 8.31414e-30 1.01494e-29 2.02230e-29 4.92068e-29 1.49583e-28
0.000100000 | 2.47726e-29 5.12575e-29 1.02321e-28 2.27518e-28 6.04806e-28
1.00000e-05 | 6.49250e-29 6.17990e-29 7.26270e-29 1.09182e-28 2.14985e-28
1.00000e-06 | 7.37213e-30 2.87829e-30 2.34910e-30 2.96780e-30 5.55303e-30
1.00000e-07 | 1.38474e-31 5.77725e-32 5.41250e-32 8.09551e-32 1.94166e-31
1.00000e-08 | 4.94932e-33 2.83756e-33 3.20602e-33 5.55517e-33 1.53297e-32
1.00000e-09 | 3.90408e-34 2.50676e-34 2.96594e-34 5.28631e-34 1.49069e-33

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08 | 6.22767e-41 3.91265e-40 2.89852e-39 2.52987e-38 2.39171e-37
1.00000e+07 | 5.05365e-37 3.15183e-36 2.32652e-35 2.02905e-34 1.91812e-33
1.00000e+06 | 3.30038e-33 1.99908e-32 1.44199e-31 1.23512e-30 1.14681e-29
100000. | 7.02060e-30 3.95036e-29 2.70983e-28 2.24653e-27 2.02446e-26
10000.0 | 2.75274e-27 1.43837e-26 9.46173e-26 7.68177e-25 6.76457e-24
1000.00 | 1.04862e-25 5.35591e-25 3.57069e-24 2.99417e-23 2.68829e-22
100.000 | 4.39036e-25 2.22635e-24 1.58638e-23 1.53185e-22 1.56304e-21
10.0000 | 1.12600e-24 5.00219e-24 3.69388e-23 4.27064e-22 5.09221e-21
1.00000 | 2.47975e-24 1.02770e-23 8.86108e-23 1.28863e-21 1.72920e-20
0.100000 | 1.08555e-25 1.19015e-24 4.53980e-23 1.30172e-21 2.19829e-20
0.0100000 | 3.94491e-27 5.01305e-25 3.81630e-23 1.26523e-21 2.23543e-20
0.00100000 | 2.18007e-27 4.64976e-25 3.75569e-23 1.26188e-21 2.23971e-20
0.000100000 | 3.64914e-27 4.70909e-25 3.76165e-23 1.26371e-21 2.24334e-20
1.00000e-05 | 2.11035e-27 4.62268e-25 3.75739e-23 1.26424e-21 2.24500e-20
1.00000e-06 | 1.50868e-27 4.59048e-25 3.75463e-23 1.26410e-21 2.24509e-20
1.00000e-07 | 1.49058e-27 4.58873e-25 3.75439e-23 1.26408e-21 2.24510e-20
1.00000e-08 | 1.48963e-27 4.58858e-25 3.75437e-23 1.26408e-21 2.24510e-20
1.00000e-09 | 1.48955e-27 4.58857e-25 3.75436e-23 1.26408e-21 2.24510e-20

Pa\K | 120.000 130.000 140.000 150.000 160.000

1.00000e+08 | 2.19940e-36 1.83712e-35 1.35966e-34 8.91769e-34 5.23724e-33
1.00000e+07 | 1.76203e-32 1.46801e-31 1.08211e-30 7.05954e-30 4.11886e-29
1.00000e+06 | 1.02985e-28 8.33130e-28 5.92220e-27 3.70162e-26 2.05683e-25
100000. | 1.74737e-25 1.34097e-24 8.93708e-24 5.18811e-23 2.65741e-22
10000.0 | 5.59991e-23 4.03556e-22 2.48137e-21 1.31087e-20 6.04632e-20
1000.00 | 2.19705e-21 1.51638e-20 8.73513e-20 4.25926e-19 1.79534e-18
100.000 | 1.36819e-20 9.62881e-20 5.48296e-19 2.59447e-18 1.04992e-17
10.0000 | 4.89381e-20 3.63827e-19 2.14459e-18 1.03886e-17 4.27441e-17
1.00000 | 1.72914e-19 1.28737e-18 7.44409e-18 3.49158e-17 1.37821e-16
0.100000 | 2.37931e-19 1.81217e-18 1.04571e-17 4.83602e-17 1.87070e-16
0.0100000 | 2.46051e-19 1.88521e-18 1.08905e-17 5.03008e-17 1.94108e-16

0.00100000	2.46967e-19	1.89355e-18	1.09408e-17	5.05318e-17	1.94973e-16
0.000100000	2.47397e-19	1.89699e-18	1.09614e-17	5.06286e-17	1.95352e-16
1.00000e-05	2.47603e-19	1.89861e-18	1.09705e-17	5.06689e-17	1.95498e-16
1.00000e-06	2.47626e-19	1.89882e-18	1.09717e-17	5.06744e-17	1.95518e-16
1.00000e-07	2.47628e-19	1.89884e-18	1.09718e-17	5.06750e-17	1.95520e-16
1.00000e-08	2.47629e-19	1.89884e-18	1.09719e-17	5.06751e-17	1.95521e-16
1.00000e-09	2.47629e-19	1.89884e-18	1.09719e-17	5.06751e-17	1.95521e-16

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.79035e-32	1.36583e-31	6.21043e-31	2.64775e-30	1.06665e-29
1.00000e+07	2.17750e-28	1.05628e-27	4.75362e-27	2.00310e-26	7.96424e-26
1.00000e+06	1.02994e-24	4.70895e-24	1.98856e-23	7.83244e-23	2.90101e-22
100000.	1.21922e-21	5.08205e-21	1.94842e-20	6.94291e-20	2.31953e-19
10000.0	2.47799e-19	9.17060e-19	3.10787e-18	9.75948e-18	2.86813e-17
1000.00	6.67987e-18	2.23462e-17	6.82667e-17	1.92922e-16	5.09724e-16
100.000	3.72805e-17	1.18679e-16	3.44765e-16	9.27215e-16	2.33568e-15
10.0000	1.53544e-16	4.92318e-16	1.43408e-15	3.84871e-15	9.62349e-15
1.00000	4.71631e-16	1.43285e-15	3.93868e-15	9.94647e-15	2.33615e-14
0.100000	6.25527e-16	1.85490e-15	4.97680e-15	1.22761e-14	2.81962e-14
0.0100000	6.47157e-16	1.91307e-15	5.11707e-15	1.25850e-14	2.88268e-14
0.00100000	6.49933e-16	1.92096e-15	5.13740e-15	1.26335e-14	2.89354e-14
0.000100000	6.51204e-16	1.92471e-15	5.14734e-15	1.26575e-14	2.89887e-14
1.00000e-05	6.51657e-16	1.92594e-15	5.15033e-15	1.26641e-14	2.90023e-14
1.00000e-06	6.51717e-16	1.92610e-15	5.15071e-15	1.26649e-14	2.90039e-14
1.00000e-07	6.51723e-16	1.92611e-15	5.15075e-15	1.26650e-14	2.90041e-14
1.00000e-08	6.51724e-16	1.92612e-15	5.15075e-15	1.26650e-14	2.90041e-14
1.00000e-09	6.51724e-16	1.92612e-15	5.15075e-15	1.26650e-14	2.90041e-14

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	4.08642e-29	1.49690e-28	5.26718e-28	1.78757e-27	5.87278e-27
1.00000e+07	3.00690e-25	1.08382e-24	3.74684e-24	1.24741e-23	4.01428e-23
1.00000e+06	1.01736e-21	3.39784e-21	1.08622e-20	3.33862e-20	9.90668e-20
100000.	7.31897e-19	2.19489e-18	6.29027e-18	1.73124e-17	4.59689e-17
10000.0	7.95443e-17	2.09672e-16	5.28512e-16	1.28082e-15	2.99870e-15
1000.00	1.27019e-15	3.00700e-15	6.80387e-15	1.47897e-14	3.10199e-14
100.000	5.56319e-15	1.26246e-14	2.74642e-14	5.75590e-14	1.16676e-13
10.0000	2.26218e-14	5.03570e-14	1.06786e-13	2.16786e-13	4.23070e-13
1.00000	5.15457e-14	1.07723e-13	2.14677e-13	4.10269e-13	7.55445e-13
0.100000	6.09265e-14	1.24893e-13	2.44541e-13	4.59933e-13	8.34818e-13
0.0100000	6.21348e-14	1.27088e-13	2.48357e-13	4.66327e-13	8.45214e-13
0.00100000	6.23650e-14	1.27553e-13	2.49258e-13	4.68001e-13	8.48211e-13
0.000100000	6.24754e-14	1.27768e-13	2.49652e-13	4.68691e-13	8.49363e-13
1.00000e-05	6.25013e-14	1.27815e-13	2.49732e-13	4.68820e-13	8.49566e-13
1.00000e-06	6.25044e-14	1.27820e-13	2.49741e-13	4.68835e-13	8.49589e-13
1.00000e-07	6.25047e-14	1.27821e-13	2.49742e-13	4.68837e-13	8.49591e-13
1.00000e-08	6.25047e-14	1.27821e-13	2.49742e-13	4.68837e-13	8.49591e-13
1.00000e-09	6.25047e-14	1.27821e-13	2.49742e-13	4.68837e-13	8.49591e-13

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	1.87414e-26	5.82824e-26	1.77167e-25	6.43798e-25	1.54607e-24
1.00000e+07	1.25308e-22	3.80704e-22	1.12941e-21	2.23948e-21	9.36866e-21
1.00000e+06	2.84898e-19	7.97080e-19	2.17781e-18	1.58698e-17	1.53727e-17
100000.	1.18275e-16	2.96170e-16	7.25012e-16	1.57862e-15	4.13479e-15
10000.0	6.81252e-15	1.50800e-14	3.26521e-14	1.26078e-13	1.45414e-13
1000.00	6.30149e-14	1.24399e-13	2.39358e-13	1.11242e-12	8.29228e-12
100.000	2.29486e-13	4.39095e-13	8.19025e-13	8.40076e-12	2.65741e-11
10.0000	7.96509e-13	1.45108e-12	2.56493e-12	7.46471e-12	7.38726e-11
1.00000	1.34558e-12	2.32621e-12	3.91445e-12	5.96467e-12	1.03204e-11
0.100000	1.46803e-12	2.50924e-12	4.18040e-12	5.68949e-12	1.08420e-11
0.0100000	1.48452e-12	2.53488e-12	4.21961e-12	5.67573e-12	1.09300e-11
0.00100000	1.48970e-12	2.54353e-12	4.23357e-12	5.67792e-12	1.09633e-11
0.000100000	1.49154e-12	2.54638e-12	4.23784e-12	5.67719e-12	1.09720e-11
1.00000e-05	1.49185e-12	2.54683e-12	4.23849e-12	5.67695e-12	1.09732e-11
1.00000e-06	1.49189e-12	2.54688e-12	4.23855e-12	5.67692e-12	1.09733e-11
1.00000e-07	1.49189e-12	2.54689e-12	4.23856e-12	5.67691e-12	1.09734e-11
1.00000e-08	1.49189e-12	2.54689e-12	4.23856e-12	5.67691e-12	1.09734e-11
1.00000e-09	1.49189e-12	2.54689e-12	4.23856e-12	5.67691e-12	1.09734e-11

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	7.02782e-15	3.84955e-10	5.91431e-08	1.21085e-06	5.27535e-06
1.00000e+07	1.11246e-11	1.86466e-07	9.56371e-06	5.83206e-05	0.000129728
1.00000e+06	1.74275e-09	4.58347e-06	0.000124426	0.000419165	0.000672807
100000.	1.83884e-08	7.18252e-06	0.000148232	0.000544138	0.000903455
10000.0	1.61933e-08	2.14107e-06	4.95172e-05	0.000299297	0.000665213
1000.00	3.76147e-09	3.84281e-07	1.45278e-05	0.000137281	0.000361670
100.000	1.10825e-09	8.13821e-08	3.84220e-06	4.09269e-05	0.000103486

10.0000	4.63110e-10	1.70334e-08	6.09438e-07	5.99849e-06	1.45477e-05
1.00000	3.25510e-10	6.47410e-09	9.87220e-08	7.82852e-07	2.22280e-06
0.100000	3.09781e-10	5.34863e-09	4.90650e-08	2.83840e-07	1.02202e-06
0.0100000	3.08782e-10	5.24060e-09	4.43473e-08	2.36839e-07	9.07186e-07
0.00100000	3.08747e-10	5.22999e-09	4.38828e-08	2.32275e-07	8.96015e-07
0.000100000	3.08742e-10	5.22892e-09	4.38366e-08	2.31826e-07	8.94916e-07
1.00000e-05	3.08741e-10	5.22882e-09	4.38320e-08	2.31781e-07	8.94808e-07
1.00000e-06	3.08741e-10	5.22881e-09	4.38315e-08	2.31777e-07	8.94797e-07
1.00000e-07	3.08741e-10	5.22881e-09	4.38315e-08	2.31776e-07	8.94796e-07
1.00000e-08	3.08741e-10	5.22881e-09	4.38315e-08	2.31776e-07	8.94796e-07
1.00000e-09	3.08741e-10	5.22881e-09	4.38315e-08	2.31776e-07	8.94796e-07

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	9.53504e-06	1.28576e-05	1.61467e-05	1.81229e-05	1.91352e-05
1.00000e+07	0.000188414	0.000246896	0.000327172	0.000402323	0.000456613
1.00000e+06	0.000872979	0.00106749	0.00128014	0.00145670	0.00157613
100000.	0.00117551	0.00138654	0.00154835	0.00165284	0.00169629
10000.0	0.000926711	0.00104645	0.00106783	0.00102770	0.000952007
1000.00	0.000477182	0.000463620	0.000398635	0.000331213	0.000284613
100.000	0.000116174	9.66938e-05	7.91931e-05	7.61680e-05	9.22002e-05
10.0000	1.64876e-05	1.71888e-05	2.31387e-05	3.84374e-05	6.72846e-05
1.00000	4.09874e-06	8.18679e-06	1.72112e-05	3.46323e-05	6.48509e-05
0.100000	2.89161e-06	7.31568e-06	1.66415e-05	3.42684e-05	6.46188e-05
0.0100000	2.77518e-06	7.23145e-06	1.65864e-05	3.42332e-05	6.45963e-05
0.00100000	2.76382e-06	7.22322e-06	1.65810e-05	3.42298e-05	6.45941e-05
0.000100000	2.76270e-06	7.22240e-06	1.65805e-05	3.42294e-05	6.45939e-05
1.00000e-05	2.76258e-06	7.22232e-06	1.65804e-05	3.42294e-05	6.45939e-05
1.00000e-06	2.76257e-06	7.22232e-06	1.65804e-05	3.42294e-05	6.45939e-05
1.00000e-07	2.76257e-06	7.22231e-06	1.65804e-05	3.42294e-05	6.45939e-05
1.00000e-08	2.76257e-06	7.22231e-06	1.65804e-05	3.42294e-05	6.45939e-05
1.00000e-09	2.76257e-06	7.22231e-06	1.65804e-05	3.42294e-05	6.45939e-05

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	2.03209e-05	2.17624e-05	0.00126789	0.00145679	0.00163411
1.00000e+07	0.000499823	0.000535615	0.00387957	0.00424673	0.00425368
1.00000e+06	0.00165172	0.00169119	0.00642053	0.00599286	0.00514332
100000.	0.00169004	0.00164906	0.00514392	0.00412849	0.00328283
10000.0	0.000866672	0.000795914	0.00202473	0.00170074	0.00173644
1000.00	0.000270207	0.000293497	0.000696546	0.000999294	0.00140840
100.000	0.000130790	0.000195488	0.000488129	0.000909241	0.00137138
10.0000	0.000114486	0.000184883	0.000466132	0.000900192	0.00136776
1.00000	0.000112927	0.000183884	0.000463971	0.000899308	0.00136741
0.100000	0.000112778	0.000183789	0.000463758	0.000899222	0.00136737
0.0100000	0.000112764	0.000183780	0.000463737	0.000899213	0.00136737
0.00100000	0.000112763	0.000183779	0.000463735	0.000899212	0.00136737
0.000100000	0.000112762	0.000183779	0.000463735	0.000899212	0.00136737
1.00000e-05	0.000112762	0.000183779	0.000463735	0.000899212	0.00136737
1.00000e-06	0.000112762	0.000183779	0.000463735	0.000899212	0.00136737
1.00000e-07	0.000112762	0.000183779	0.000463735	0.000899212	0.00136737
1.00000e-08	0.000112762	0.000183779	0.000463735	0.000899212	0.00136737
1.00000e-09	0.000112762	0.000183779	0.000463735	0.000899212	0.00136737

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00175240	0.00178150	0.00172007	0.00159261	0.00143176
1.00000e+07	0.00391523	0.00338279	0.00281663	0.00230995	0.00189231
1.00000e+06	0.00418288	0.00333932	0.00268490	0.00219799	0.00183055
100000.	0.00271515	0.00237276	0.00213259	0.00191914	0.00170755
10000.0	0.00188318	0.00197736	0.00196212	0.00185251	0.00168512
1000.00	0.00174577	0.00192365	0.00194246	0.00184604	0.00168349
100.000	0.00173157	0.00191845	0.00194068	0.00184551	0.00168339
10.0000	0.00173020	0.00191796	0.00194052	0.00184547	0.00168339
1.00000	0.00173007	0.00191791	0.00194050	0.00184546	0.00168339
0.100000	0.00173006	0.00191791	0.00194050	0.00184546	0.00168339
0.0100000	0.00173006	0.00191791	0.00194050	0.00184546	0.00168339
0.00100000	0.00173006	0.00191791	0.00194050	0.00184546	0.00168339
0.000100000	0.00173006	0.00191791	0.00194050	0.00184546	0.00168339
1.00000e-05	0.00173006	0.00191791	0.00194050	0.00184546	0.00168339
1.00000e-06	0.00173006	0.00191791	0.00194050	0.00184546	0.00168339
1.00000e-07	0.00173006	0.00191791	0.00194050	0.00184546	0.00168339
1.00000e-08	0.00173006	0.00191791	0.00194050	0.00184546	0.00168339
1.00000e-09	0.00173006	0.00191791	0.00194050	0.00184546	0.00168339

Pa\K	3750.00	4000.00
1.00000e+08	0.00126404	0.00110556
1.00000e+07	0.00155971	0.00129694
1.00000e+06	0.00154214	0.00130704

100000.	0.00149825	0.00129890
10000.0	0.00149317	0.00129988
1000.00	0.00149318	0.00130033
100.000	0.00149322	0.00130040
10.0000	0.00149322	0.00130040
1.00000	0.00149322	0.00130040
0.100000	0.00149322	0.00130041
0.0100000	0.00149322	0.00130041
0.00100000	0.00149322	0.00130041
0.000100000	0.00149322	0.00130041
1.00000e-05	0.00149322	0.00130041
1.00000e-06	0.00149322	0.00130041
1.00000e-07	0.00149322	0.00130041
1.00000e-08	0.00149322	0.00130041
1.00000e-09	0.00149322	0.00130041

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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
100.000	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	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	310.000
1.00000e+08	N/A	N/A	N/A	1.37099e-21	N/A
1.00000e+07	N/A	N/A	N/A	4.53115e-19	N/A
1.00000e+06	N/A	N/A	N/A	3.43923e-17	N/A
100000.	N/A	N/A	N/A	1.11914e-15	N/A
10000.0	N/A	N/A	N/A	1.79103e-14	N/A
1000.00	N/A	N/A	N/A	1.56754e-13	N/A
100.000	N/A	N/A	N/A	1.20327e-12	N/A
10.0000	N/A	N/A	N/A	5.15506e-12	N/A
1.00000	N/A	N/A	N/A	9.65742e-12	N/A
0.100000	N/A	N/A	N/A	1.27458e-11	N/A
0.0100000	N/A	N/A	N/A	1.58151e-11	N/A
0.00100000	N/A	N/A	N/A	1.65674e-11	N/A
0.000100000	N/A	N/A	N/A	1.64095e-11	N/A
1.00000e-05	N/A	N/A	N/A	1.63693e-11	N/A
1.00000e-06	N/A	N/A	N/A	1.63649e-11	N/A
1.00000e-07	N/A	N/A	N/A	1.63644e-11	N/A
1.00000e-08	N/A	N/A	N/A	1.63644e-11	N/A
1.00000e-09	N/A	N/A	N/A	1.63644e-11	N/A

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	6.95653e-18	1.06255e-12	3.85895e-10	2.07884e-07	5.12395e-06
1.00000e+07	3.73449e-14	3.72133e-09	2.41354e-07	2.37076e-06	1.65964e-05
1.00000e+06	1.06143e-11	1.37766e-07	4.61799e-06	1.67043e-05	3.35714e-05
100000.	9.47416e-11	1.71216e-07	5.29968e-06	2.14896e-05	3.94900e-05
10000.0	5.24023e-11	3.21801e-08	1.52745e-06	1.14621e-05	2.86350e-05
1000.00	4.50303e-11	6.49135e-09	4.46413e-07	5.32971e-06	1.63145e-05
100.000	1.70299e-10	6.29350e-09	1.73690e-07	1.96358e-06	6.51041e-06
10.0000	3.49391e-10	8.30708e-09	1.10990e-07	8.39293e-07	3.31168e-06
1.00000	5.09261e-10	1.14303e-08	1.18518e-07	7.09583e-07	2.90189e-06
0.100000	7.09698e-10	1.38189e-08	1.25013e-07	7.01363e-07	2.85861e-06
0.0100000	8.28183e-10	1.45162e-08	1.26053e-07	6.99911e-07	2.85287e-06
0.00100000	8.50345e-10	1.46025e-08	1.26121e-07	6.99646e-07	2.85218e-06
0.000100000	8.51863e-10	1.46096e-08	1.26123e-07	6.99614e-07	2.85210e-06
1.00000e-05	8.51953e-10	1.46102e-08	1.26124e-07	6.99611e-07	2.85210e-06

1.00000e-06	8.51961e-10	1.46102e-08	1.26124e-07	6.99611e-07	2.85210e-06
1.00000e-07	8.51962e-10	1.46102e-08	1.26124e-07	6.99611e-07	2.85210e-06
1.00000e-08	8.51962e-10	1.46102e-08	1.26124e-07	6.99611e-07	2.85210e-06
1.00000e-09	8.51962e-10	1.46102e-08	1.26124e-07	6.99611e-07	2.85210e-06

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	1.35517e-05	1.84430e-05	2.29370e-05	2.54706e-05	2.64142e-05
1.00000e+07	5.47914e-05	0.000127494	0.000242742	0.000351562	0.000420648
1.00000e+06	7.06707e-05	0.000176452	0.000409424	0.000655969	0.000807829
100000.	6.40843e-05	0.000115078	0.000218020	0.000346648	0.000478103
10000.0	4.88760e-05	7.99783e-05	0.000134355	0.000219422	0.000344370
1000.00	2.91815e-05	5.00734e-05	8.94382e-05	0.000159597	0.000277811
100.000	1.39967e-05	3.06309e-05	6.60579e-05	0.000134107	0.000253505
10.0000	9.85533e-06	2.60034e-05	6.11454e-05	0.000129427	0.000249535
1.00000	9.33780e-06	2.54331e-05	6.05622e-05	0.000128899	0.000249104
0.100000	9.28059e-06	2.53730e-05	6.05037e-05	0.000128848	0.000249063
0.0100000	9.27391e-06	2.53668e-05	6.04981e-05	0.000128843	0.000249059
0.00100000	9.27319e-06	2.53662e-05	6.04975e-05	0.000128843	0.000249059
0.000100000	9.27312e-06	2.53662e-05	6.04975e-05	0.000128843	0.000249059
1.00000e-05	9.27312e-06	2.53661e-05	6.04975e-05	0.000128843	0.000249059
1.00000e-06	9.27312e-06	2.53661e-05	6.04975e-05	0.000128843	0.000249059
1.00000e-07	9.27312e-06	2.53661e-05	6.04975e-05	0.000128843	0.000249059
1.00000e-08	9.27312e-06	2.53661e-05	6.04975e-05	0.000128843	0.000249059
1.00000e-09	9.27312e-06	2.53661e-05	6.04975e-05	0.000128843	0.000249059

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	2.74130e-05	2.90494e-05	0.00233229	0.00248388	0.00260679
1.00000e+07	0.000463810	0.000498393	0.00284950	0.00281568	0.00291425
1.00000e+06	0.000908402	0.00101682	0.00171577	0.00228726	0.00331207
100000.	0.000640379	0.000864669	0.00154210	0.00296153	0.00454581
10000.0	0.000528027	0.000791942	0.00185724	0.00350783	0.00506983
1000.00	0.000465476	0.000743002	0.00196306	0.00362603	0.00515534
100.000	0.000445412	0.000729023	0.00197827	0.00364114	0.00516508
10.0000	0.000442432	0.000727135	0.00197998	0.00364283	0.00516611
1.00000	0.000442117	0.000726942	0.00198016	0.00364301	0.00516622
0.100000	0.000442087	0.000726925	0.00198018	0.00364303	0.00516623
0.0100000	0.000442085	0.000726924	0.00198018	0.00364303	0.00516623
0.00100000	0.000442085	0.000726923	0.00198018	0.00364303	0.00516623
0.000100000	0.000442085	0.000726923	0.00198018	0.00364303	0.00516623
1.00000e-05	0.000442085	0.000726923	0.00198018	0.00364303	0.00516623
1.00000e-06	0.000442085	0.000726923	0.00198018	0.00364303	0.00516623
1.00000e-07	0.000442085	0.000726923	0.00198018	0.00364303	0.00516623
1.00000e-08	0.000442085	0.000726923	0.00198018	0.00364303	0.00516623
1.00000e-09	0.000442085	0.000726923	0.00198018	0.00364303	0.00516623

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00268612	0.00272452	0.00273398	0.00272432	0.00269706
1.00000e+07	0.00318186	0.00352922	0.00381651	0.00394879	0.00390641
1.00000e+06	0.00438430	0.00509889	0.00532662	0.00516518	0.00477683
100000.	0.00566501	0.00609398	0.00597370	0.00554072	0.00497878
10000.0	0.00602920	0.00630255	0.00608018	0.00559144	0.00500176
1000.00	0.00607814	0.00632709	0.00609159	0.00559651	0.00500391
100.000	0.00608336	0.00632962	0.00609275	0.00559701	0.00500412
10.0000	0.00608389	0.00632988	0.00609286	0.00559706	0.00500415
1.00000	0.00608395	0.00632991	0.00609288	0.00559707	0.00500415
0.100000	0.00608395	0.00632991	0.00609288	0.00559707	0.00500415
0.0100000	0.00608396	0.00632991	0.00609288	0.00559707	0.00500415
0.00100000	0.00608396	0.00632991	0.00609288	0.00559707	0.00500415
0.000100000	0.00608396	0.00632991	0.00609288	0.00559707	0.00500415
1.00000e-05	0.00608396	0.00632991	0.00609288	0.00559707	0.00500415
1.00000e-06	0.00608396	0.00632991	0.00609288	0.00559707	0.00500415
1.00000e-07	0.00608396	0.00632991	0.00609288	0.00559707	0.00500415
1.00000e-08	0.00608396	0.00632991	0.00609288	0.00559707	0.00500415
1.00000e-09	0.00608396	0.00632991	0.00609288	0.00559707	0.00500415

Pa\K	3750.00	4000.00
1.00000e+08	0.00264789	0.00257258
1.00000e+07	0.00372237	0.00344864
1.00000e+06	0.00429380	0.00379822
100000.	0.00439610	0.00384678
10000.0	0.00440594	0.00385055
1000.00	0.00440679	0.00385082
100.000	0.00440687	0.00385085
10.0000	0.00440688	0.00385085
1.00000	0.00440688	0.00385085
0.100000	0.00440688	0.00385085

0.0100000	0.00440688	0.00385085
0.00100000	0.00440688	0.00385085
0.000100000	0.00440688	0.00385085
1.00000e-05	0.00440688	0.00385085
1.00000e-06	0.00440688	0.00385085
1.00000e-07	0.00440688	0.00385085
1.00000e-08	0.00440688	0.00385085
1.00000e-09	0.00440688	0.00385085

PhCCH+CH3

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	2.48045e-64	3.64997e-62	8.34242e-61	1.03164e-59	9.89601e-59
1.00000e+07	1.01019e-57	1.02986e-55	1.89873e-54	2.02124e-53	1.72980e-52
1.00000e+06	1.46386e-51	1.25718e-49	2.16113e-48	2.20852e-47	1.83771e-46
100000.	1.47215e-45	1.18198e-43	1.93448e-42	1.89204e-41	1.51046e-40
10000.0	1.00188e-39	5.79604e-38	7.24491e-37	5.61724e-36	3.65438e-35
1000.00	1.06627e-34	2.21218e-33	1.44954e-32	7.06157e-32	3.23921e-31
100.000	2.83097e-31	2.26209e-30	1.00673e-29	4.08293e-29	1.75261e-28
10.0000	1.07973e-28	7.84298e-28	3.28954e-27	1.26201e-26	5.17999e-26
1.00000	2.05923e-26	9.25813e-26	2.86252e-25	8.76364e-25	3.00867e-24
0.100000	7.35687e-25	2.11063e-24	5.24526e-24	1.39961e-23	4.36910e-23
0.0100000	1.03044e-23	3.02804e-23	7.97041e-23	2.24416e-22	7.35119e-22
0.00100000	1.88580e-22	5.54467e-22	1.37713e-21	3.62067e-21	1.10549e-20
0.000100000	2.25630e-21	4.99352e-21	1.03538e-20	2.36334e-20	6.39784e-20
1.00000e-05	8.23160e-21	9.36271e-21	1.22052e-20	1.95796e-20	4.01915e-20
1.00000e-06	1.73820e-21	7.65493e-22	6.48681e-22	8.28240e-22	1.54648e-21
1.00000e-07	4.20775e-23	1.77700e-23	1.65545e-23	2.44486e-23	5.83548e-23
1.00000e-08	1.54839e-24	8.83938e-25	9.88347e-25	1.68772e-24	5.30018e-24
1.00000e-09	1.22308e-25	7.81319e-26	9.14708e-26	1.60669e-25	1.17180e-24

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	8.81610e-58	8.33498e-57	9.37358e-56	1.33062e-54	2.28647e-53
1.00000e+07	1.40553e-51	1.23092e-50	1.30127e-49	1.76524e-48	2.93669e-47
1.00000e+06	1.46164e-45	1.25825e-44	1.31194e-43	1.76054e-42	2.90084e-41
100000.	1.15458e-39	9.57297e-39	9.64375e-38	1.25195e-36	1.98283e-35
10000.0	2.33331e-34	1.66230e-33	1.48970e-32	1.76099e-31	2.50005e-30
1000.00	1.60758e-30	9.95009e-30	8.79562e-29	1.08927e-27	1.53978e-26
100.000	9.02557e-28	6.47884e-27	7.09868e-26	1.02644e-24	1.51119e-23
10.0000	2.60195e-25	1.87055e-24	2.06962e-23	2.89777e-22	3.88419e-21
1.00000	1.31614e-23	8.70698e-23	9.41771e-22	1.28533e-20	1.60542e-19
0.100000	1.79439e-22	1.16485e-21	1.31413e-20	1.89180e-19	2.43263e-18
0.0100000	3.14959e-21	2.10373e-20	2.37730e-19	3.39044e-18	4.33400e-17
0.00100000	4.42138e-20	2.79379e-19	3.08835e-18	4.35086e-17	5.39988e-16
0.000100000	2.30868e-19	1.37644e-18	1.57333e-17	2.30715e-16	2.82708e-15
1.00000e-05	1.19760e-19	8.18141e-19	1.62057e-17	3.27249e-16	4.45165e-15
1.00000e-06	6.36480e-21	2.53509e-19	1.25089e-17	3.15511e-16	4.57510e-15
1.00000e-07	1.48086e-21	2.15009e-19	1.21304e-17	3.13709e-16	4.58346e-15
1.00000e-08	1.21461e-21	2.11833e-19	1.20943e-17	3.13527e-16	4.58426e-15
1.00000e-09	1.19058e-21	2.11524e-19	1.20907e-17	3.13508e-16	4.58434e-15

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	4.27035e-52	7.91647e-51	1.38178e-49	2.22764e-48	3.28201e-47
1.00000e+07	5.33300e-46	9.59636e-45	1.61940e-43	2.51313e-42	3.54993e-41
1.00000e+06	5.21115e-40	9.25062e-39	1.53483e-37	2.33251e-36	3.21284e-35
100000.	3.37593e-34	5.57983e-33	8.46582e-32	1.15436e-30	1.40203e-29
10000.0	3.65611e-29	4.97151e-28	6.01156e-27	6.39099e-26	5.98188e-25
1000.00	2.07059e-25	2.45043e-24	2.50595e-23	2.22470e-22	1.73251e-21
100.000	1.94769e-22	2.10105e-21	1.89613e-20	1.45047e-19	9.55133e-19
10.0000	4.34289e-20	3.93274e-19	2.91676e-18	1.81101e-17	9.62953e-17
1.00000	1.61542e-18	1.29489e-17	8.47380e-17	4.66874e-16	2.22827e-15
0.100000	2.48017e-17	2.00628e-16	1.32778e-15	7.42644e-15	3.60720e-14
0.0100000	4.39404e-16	3.51549e-15	2.27956e-14	1.23494e-13	5.74114e-13
0.00100000	5.21984e-15	3.92694e-14	2.36876e-13	1.18326e-12	5.03405e-12
0.000100000	2.59193e-14	1.80531e-13	9.93732e-13	4.49175e-12	1.72194e-11
1.00000e-05	4.14442e-14	2.82700e-13	1.50128e-12	6.51079e-12	2.39275e-11
1.00000e-06	4.34631e-14	2.97860e-13	1.57922e-12	6.82002e-12	2.49356e-11
1.00000e-07	4.36550e-14	2.99393e-13	1.58728e-12	6.85225e-12	2.50409e-11
1.00000e-08	4.36741e-14	2.99547e-13	1.58809e-12	6.85549e-12	2.50515e-11
1.00000e-09	4.36760e-14	2.99562e-13	1.58817e-12	6.85581e-12	2.50525e-11

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	4.41396e-46	5.42413e-45	6.14784e-44	6.42608e-43	6.21139e-42
1.00000e+07	4.56130e-40	5.33893e-39	5.74630e-38	5.68832e-37	5.19296e-36
1.00000e+06	4.00688e-34	4.52981e-33	4.67923e-32	4.41759e-31	3.82147e-30
100000.	1.51685e-28	1.46617e-27	1.27469e-26	1.00068e-25	7.13105e-25

10000.0	4.96447e-24	3.68424e-23	2.46684e-22	1.50153e-21	8.36696e-21
1000.00	1.19676e-20	7.40486e-20	4.13840e-19	2.10349e-18	9.78186e-18
100.000	5.49332e-18	2.79527e-17	1.27285e-16	5.23953e-16	1.96753e-15
10.0000	4.47590e-16	1.85151e-15	6.92220e-15	2.37027e-14	7.51863e-14
1.00000	9.43817e-15	3.61867e-14	1.27581e-13	4.18687e-13	1.29064e-12
0.100000	1.55423e-13	6.03724e-13	2.14042e-12	6.99316e-12	2.12187e-11
0.0100000	2.34132e-12	8.52508e-12	2.81081e-11	8.48717e-11	2.36844e-10
0.00100000	1.86658e-11	6.14590e-11	1.82453e-10	4.94534e-10	1.23672e-09
0.000100000	5.74749e-11	1.70609e-10	4.58182e-10	1.12891e-09	2.58131e-09
1.00000e-05	7.66842e-11	2.19183e-10	5.68726e-10	1.35880e-09	3.02362e-09
1.00000e-06	7.94962e-11	2.26088e-10	5.83981e-10	1.38961e-09	3.08129e-09
1.00000e-07	7.97896e-11	2.26807e-10	5.85564e-10	1.39280e-09	3.08723e-09
1.00000e-08	7.98190e-11	2.26879e-10	5.85723e-10	1.39312e-09	3.08783e-09
1.00000e-09	7.98220e-11	2.26887e-10	5.85739e-10	1.39315e-09	3.08789e-09

Pa\K | 220.000 230.000 240.000 250.000 260.000

1.00000e+08	5.57607e-41	4.69873e-40	3.69434e-39	2.69313e-38	1.82259e-37
1.00000e+07	4.39009e-35	3.47318e-34	2.55937e-33	1.74599e-32	1.10557e-31
1.00000e+06	3.04149e-29	2.24446e-28	1.53288e-27	9.67312e-27	5.65638e-26
100000.	4.64084e-24	2.77530e-23	1.53139e-22	7.83009e-22	3.72582e-21
10000.0	4.29529e-20	2.04260e-19	9.03925e-19	3.73773e-18	1.44929e-17
1000.00	4.18364e-17	1.65350e-16	6.06596e-16	2.07431e-15	6.63880e-15
100.000	6.79595e-15	2.17549e-14	6.49886e-14	1.82322e-13	4.83143e-13
10.0000	2.23110e-13	6.24544e-13	1.66081e-12	4.21995e-12	1.02934e-11
1.00000	3.76185e-12	1.04160e-11	2.74880e-11	6.93103e-11	1.67312e-10
0.100000	6.01741e-11	1.60362e-10	4.03484e-10	9.62415e-10	2.18412e-09
0.0100000	6.15448e-10	1.49860e-09	3.43785e-09	7.46504e-09	1.54077e-08
0.00100000	2.87891e-09	6.28579e-09	1.29572e-08	2.53605e-08	4.73662e-08
0.000100000	5.52976e-09	1.11862e-08	2.15103e-08	3.95386e-08	6.98016e-08
1.00000e-05	6.32505e-09	1.25338e-08	2.36775e-08	4.28658e-08	7.47031e-08
1.00000e-06	6.42607e-09	1.27009e-08	2.39404e-08	4.32614e-08	7.52752e-08
1.00000e-07	6.43646e-09	1.27181e-08	2.39673e-08	4.33018e-08	7.53334e-08
1.00000e-08	6.43750e-09	1.27198e-08	2.39699e-08	4.33058e-08	7.53393e-08
1.00000e-09	6.43761e-09	1.27200e-08	2.39702e-08	4.33062e-08	7.53399e-08

Pa\K | 270.000 280.000 290.000 300.000 310.000

1.00000e+08	1.14272e-36	6.61236e-36	3.52300e-35	1.91044e-27	7.78557e-34
1.00000e+07	6.49730e-31	3.53663e-30	1.78190e-29	2.37165e-22	3.59752e-28
1.00000e+06	3.06898e-25	1.54469e-24	7.21596e-24	3.59374e-18	1.26515e-22
100000.	1.65591e-20	6.89265e-20	2.69323e-19	2.70355e-15	3.42750e-18
10000.0	5.28601e-17	1.81841e-16	5.91403e-16	1.79402e-13	5.33025e-15
1000.00	1.99643e-14	5.66249e-14	1.52030e-13	5.28092e-12	9.42386e-13
100.000	1.21575e-12	2.91894e-12	6.71583e-12	8.86486e-11	3.17567e-11
10.0000	2.41911e-11	5.49306e-11	1.20762e-10	1.25106e-09	5.32757e-10
1.00000	3.87345e-10	8.61470e-10	1.84364e-09	1.41405e-08	7.57393e-09
0.100000	4.73116e-09	9.81037e-09	1.95239e-08	9.24641e-08	6.90069e-08
0.0100000	3.03414e-08	5.72023e-08	1.03571e-07	2.84244e-07	3.04201e-07
0.00100000	8.47915e-08	1.46048e-07	2.42883e-07	4.22726e-07	6.11835e-07
0.000100000	1.18832e-07	1.95766e-07	3.13021e-07	4.39898e-07	7.39119e-07
1.00000e-05	1.25791e-07	2.05320e-07	3.25751e-07	4.37890e-07	7.59993e-07
1.00000e-06	1.26589e-07	2.06401e-07	3.27171e-07	4.37512e-07	7.62270e-07
1.00000e-07	1.26671e-07	2.06510e-07	3.27315e-07	4.37472e-07	7.62500e-07
1.00000e-08	1.26679e-07	2.06521e-07	3.27330e-07	4.37468e-07	7.62523e-07
1.00000e-09	1.26679e-07	2.06522e-07	3.27331e-07	4.37468e-07	7.62525e-07

Pa\K | 400.000 500.000 600.000 700.000 800.000

1.00000e+08	6.25479e-18	2.03216e-12	4.48342e-10	4.50019e-08	1.44583e-06
1.00000e+07	6.54257e-14	4.41063e-09	2.62434e-07	1.86814e-06	7.86599e-06
1.00000e+06	3.15068e-11	2.05264e-07	5.39507e-06	1.80429e-05	3.24661e-05
100000.	7.79411e-10	7.39167e-07	1.09780e-05	3.10970e-05	5.22999e-05
10000.0	1.38309e-09	5.36639e-07	8.40815e-06	3.08695e-05	7.62274e-05
1000.00	2.49745e-09	3.38221e-07	7.26972e-06	4.81292e-05	0.000204690
100.000	2.49702e-08	1.41410e-06	2.35692e-05	0.000164792	0.000617973
10.0000	2.58386e-07	9.44083e-06	9.94844e-05	0.000454643	0.00119996
1.00000	1.74784e-06	3.66142e-05	0.000234634	0.000739883	0.00154826
0.100000	6.05163e-06	7.34248e-05	0.000329473	0.000857238	0.00164382
0.0100000	1.06057e-05	9.22233e-05	0.000357012	0.000879857	0.00165795
0.00100000	1.22248e-05	9.61081e-05	0.000360975	0.000882503	0.00165946
0.000100000	1.24407e-05	9.65465e-05	0.000361382	0.000882770	0.00165962
1.00000e-05	1.24589e-05	9.65889e-05	0.000361423	0.000882797	0.00165963
1.00000e-06	1.24606e-05	9.65931e-05	0.000361427	0.000882800	0.00165963
1.00000e-07	1.24607e-05	9.65935e-05	0.000361427	0.000882800	0.00165963
1.00000e-08	1.24608e-05	9.65935e-05	0.000361427	0.000882800	0.00165963
1.00000e-09	1.24608e-05	9.65935e-05	0.000361427	0.000882800	0.00165963

Pa\K | 900.000 1000.00 1100.00 1200.00 1300.00

1.00000e+08	9.69701e-06	2.54019e-05	4.28309e-05	5.20817e-05	5.04913e-05
1.00000e+07	3.96128e-05	0.000156199	0.000370017	0.000571847	0.000684093
1.00000e+06	8.01174e-05	0.000284104	0.000704489	0.00113962	0.00145077
100000.	0.000111326	0.000329824	0.000824344	0.00156463	0.00229570
10000.0	0.000223075	0.000659759	0.00154928	0.00273128	0.00372940
1000.00	0.000673024	0.00162171	0.00293472	0.00420767	0.00508608
100.000	0.00153442	0.00279110	0.00407632	0.00511224	0.00578032
10.0000	0.00227108	0.00344957	0.00453519	0.00539643	0.00596847
1.00000	0.00255910	0.00363201	0.00463245	0.00544613	0.00599768
0.100000	0.00261642	0.00366058	0.00464536	0.00545210	0.00600102
0.0100000	0.00262355	0.00366380	0.00464677	0.00545276	0.00600140
0.00100000	0.00262429	0.00366414	0.00464692	0.00545284	0.00600145
0.000100000	0.00262437	0.00366418	0.00464694	0.00545285	0.00600145
1.00000e-05	0.00262438	0.00366418	0.00464694	0.00545285	0.00600145
1.00000e-06	0.00262438	0.00366418	0.00464694	0.00545285	0.00600145
1.00000e-07	0.00262438	0.00366418	0.00464694	0.00545285	0.00600145
1.00000e-08	0.00262438	0.00366418	0.00464694	0.00545285	0.00600145
1.00000e-09	0.00262438	0.00366418	0.00464694	0.00545285	0.00600145

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	4.22461e-05	3.12530e-05	0.00602281	0.00621178	0.00627731
1.00000e+07	0.000712945	0.000676791	0.00543609	0.00496791	0.00445324
1.00000e+06	0.00162588	0.00171334	0.00309134	0.00291578	0.00275968
100000.	0.00277411	0.00300631	0.00320914	0.00298835	0.00271177
10000.0	0.00428709	0.00447470	0.00411995	0.00356511	0.00297152
1000.00	0.00551256	0.00559287	0.00488500	0.00396480	0.00311111
100.000	0.00609184	0.00610816	0.00521741	0.00409340	0.00314468
10.0000	0.00623931	0.00623705	0.00529435	0.00411695	0.00314968
1.00000	0.00626111	0.00625599	0.00530535	0.00411993	0.00315025
0.100000	0.00626356	0.00625811	0.00530657	0.00412025	0.00315031
0.0100000	0.00626384	0.00625834	0.00530669	0.00412028	0.00315031
0.00100000	0.00626387	0.00625837	0.00530670	0.00412028	0.00315031
0.000100000	0.00626388	0.00625837	0.00530671	0.00412028	0.00315031
1.00000e-05	0.00626388	0.00625837	0.00530671	0.00412028	0.00315031
1.00000e-06	0.00626388	0.00625837	0.00530671	0.00412028	0.00315031
1.00000e-07	0.00626388	0.00625837	0.00530671	0.00412028	0.00315031
1.00000e-08	0.00626388	0.00625837	0.00530671	0.00412028	0.00315031
1.00000e-09	0.00626388	0.00625837	0.00530671	0.00412028	0.00315031

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00619970	0.00598963	0.00570334	0.00541613	0.00519037
1.00000e+07	0.00400705	0.00368141	0.00349569	0.00345839	0.00356734
1.00000e+06	0.00262290	0.00254197	0.00257680	0.00275263	0.00305834
100000.	0.00246322	0.00234554	0.00240679	0.00263052	0.00298015
10000.0	0.00253057	0.00234355	0.00239158	0.00261802	0.00297233
1000.00	0.00256501	0.00234907	0.00239120	0.00261704	0.00297165
100.000	0.00257176	0.00235012	0.00239123	0.00261695	0.00297159
10.0000	0.00257263	0.00235024	0.00239123	0.00261694	0.00297158
1.00000	0.00257272	0.00235025	0.00239123	0.00261694	0.00297158
0.100000	0.00257273	0.00235025	0.00239123	0.00261694	0.00297158
0.0100000	0.00257273	0.00235025	0.00239123	0.00261694	0.00297158
0.00100000	0.00257273	0.00235025	0.00239123	0.00261694	0.00297158
0.000100000	0.00257273	0.00235025	0.00239123	0.00261694	0.00297158
1.00000e-05	0.00257273	0.00235025	0.00239123	0.00261694	0.00297158
1.00000e-06	0.00257273	0.00235025	0.00239123	0.00261694	0.00297158
1.00000e-07	0.00257273	0.00235025	0.00239123	0.00261694	0.00297158
1.00000e-08	0.00257273	0.00235025	0.00239123	0.00261694	0.00297158
1.00000e-09	0.00257273	0.00235025	0.00239123	0.00261694	0.00297158

Pa\K	3750.00	4000.00
1.00000e+08	0.00506166	0.00504077
1.00000e+07	0.00380677	0.00414970
1.00000e+06	0.00346532	0.00394070
100000.	0.00341950	0.00391649
10000.0	0.00341521	0.00391443
1000.00	0.00341483	0.00391426
100.000	0.00341480	0.00391425
10.0000	0.00341480	0.00391424
1.00000	0.00341480	0.00391424
0.100000	0.00341479	0.00391424
0.0100000	0.00341479	0.00391424
0.00100000	0.00341479	0.00391424
0.000100000	0.00341479	0.00391424
1.00000e-05	0.00341479	0.00391424
1.00000e-06	0.00341479	0.00391424
1.00000e-07	0.00341479	0.00391424
1.00000e-08	0.00341479	0.00391424

1.00000e-09 | 0.00341479 0.00391424

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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	100.000	110.000
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	120.000	130.000	140.000	150.000	160.000
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	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	310.000
1.00000e+08	N/A	N/A	N/A	9.55888e-28	N/A
1.00000e+07	N/A	N/A	N/A	3.83297e-24	N/A
1.00000e+06	N/A	N/A	N/A	1.53814e-21	N/A
100000.	N/A	N/A	N/A	2.02715e-20	N/A
10000.0	N/A	N/A	N/A	2.54486e-21	N/A
1000.00	N/A	N/A	N/A	3.48427e-24	N/A
100.000	N/A	N/A	N/A	3.14817e-27	N/A
10.0000	N/A	N/A	N/A	7.42996e-29	N/A
1.00000	N/A	N/A	N/A	6.10334e-30	N/A
0.100000	N/A	N/A	N/A	6.01946e-31	N/A
0.0100000	N/A	N/A	N/A	6.21770e-32	N/A
0.00100000	N/A	N/A	N/A	8.20481e-33	N/A
0.000100000	N/A	N/A	N/A	2.80077e-33	N/A
1.00000e-05	N/A	N/A	N/A	2.25997e-33	N/A
1.00000e-06	N/A	N/A	N/A	2.20588e-33	N/A
1.00000e-07	N/A	N/A	N/A	2.20047e-33	N/A
1.00000e-08	N/A	N/A	N/A	2.19993e-33	N/A
1.00000e-09	N/A	N/A	N/A	2.19987e-33	N/A

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.33488e-17	2.81639e-12	3.62136e-10	6.61141e-09	2.90813e-08
1.00000e+07	1.52760e-14	1.59741e-09	8.82018e-08	5.02281e-07	1.12259e-06
1.00000e+06	5.73076e-13	2.42176e-08	1.15042e-06	4.26802e-06	7.18127e-06
100000.	3.86397e-13	5.88487e-09	7.54637e-07	4.54856e-06	8.78469e-06
10000.0	7.25441e-15	1.55538e-10	1.08511e-07	1.78619e-06	5.32445e-06
1000.00	2.72744e-17	6.22721e-12	2.38909e-08	7.28522e-07	2.68396e-06
100.000	6.92487e-19	8.59756e-13	6.20068e-09	2.14335e-07	7.54218e-07
10.0000	7.46810e-20	1.29439e-13	9.29664e-10	3.03712e-08	1.00248e-07
1.00000	8.27075e-21	1.38246e-14	8.96707e-11	2.89192e-09	9.75105e-09
0.100000	8.37895e-22	1.36728e-15	8.51604e-12	2.72468e-10	9.34313e-10
0.0100000	8.42128e-23	1.36650e-16	8.38398e-13	2.64571e-11	9.10635e-11
0.00100000	8.62358e-24	1.36805e-17	8.33613e-14	2.60619e-12	9.02548e-12
0.000100000	1.05274e-24	1.37446e-18	8.32059e-15	2.59637e-13	9.56224e-13
1.00000e-05	2.95218e-25	1.43563e-19	8.38258e-16	2.70737e-14	1.57180e-13
1.00000e-06	2.19456e-25	2.04690e-20	9.07746e-17	3.89236e-15	7.75624e-14
1.00000e-07	2.11880e-25	8.15962e-21	1.60445e-17	1.57605e-15	6.96079e-14
1.00000e-08	2.11122e-25	6.92869e-21	8.57183e-18	1.34443e-15	6.88124e-14
1.00000e-09	2.11046e-25	6.80559e-21	7.82459e-18	1.32128e-15	6.87330e-14

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	5.42964e-08	7.50063e-08	9.59596e-08	1.09374e-07	1.17041e-07
1.00000e+07	1.68503e-06	2.26189e-06	3.04892e-06	3.79949e-06	4.35923e-06
1.00000e+06	9.65301e-06	1.20126e-05	1.45044e-05	1.65698e-05	1.79720e-05
100000.	1.21415e-05	1.46395e-05	1.64222e-05	1.75192e-05	1.79086e-05
10000.0	8.29300e-06	9.74054e-06	1.00359e-05	9.60298e-06	8.69895e-06
1000.00	4.04862e-06	4.10337e-06	3.51090e-06	2.76527e-06	2.07934e-06
100.000	9.60039e-07	7.99015e-07	5.71853e-07	3.89023e-07	2.64649e-07

10.0000	1.16090e-07	8.89685e-08	6.00434e-08	4.01503e-08	3.14349e-08
1.00000	1.13048e-08	8.63096e-09	5.95198e-09	4.97988e-09	8.65113e-09
0.100000	1.09338e-09	8.55371e-10	7.52341e-10	1.61488e-09	6.47642e-09
0.0100000	1.08308e-10	1.03464e-10	2.49240e-10	1.28911e-09	6.26569e-09
0.00100000	1.21383e-11	2.99354e-11	1.99997e-10	1.25720e-09	6.24502e-09
0.000100000	2.66563e-12	2.26857e-11	1.95138e-10	1.25405e-09	6.24298e-09
1.00000e-05	1.72704e-12	2.19669e-11	1.94656e-10	1.25374e-09	6.24278e-09
1.00000e-06	1.63349e-12	2.18953e-11	1.94608e-10	1.25371e-09	6.24276e-09
1.00000e-07	1.62414e-12	2.18881e-11	1.94603e-10	1.25370e-09	6.24276e-09
1.00000e-08	1.62321e-12	2.18874e-11	1.94603e-10	1.25370e-09	6.24276e-09
1.00000e-09	1.62311e-12	2.18873e-11	1.94603e-10	1.25370e-09	6.24276e-09

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	1.25783e-07	1.36136e-07	0.000935186	0.00108205	0.00122128
1.00000e+07	4.81555e-06	5.20184e-06	0.00316504	0.00347591	0.00349224
1.00000e+06	1.88466e-05	1.92748e-05	0.00478529	0.00436461	0.00364831
100000.	1.76810e-05	1.69650e-05	0.00333247	0.00239737	0.00159710
10000.0	7.54393e-06	6.34207e-06	0.00106040	0.000562148	0.000304440
1000.00	1.53317e-06	1.16050e-06	0.000157120	7.39904e-05	5.11597e-05
100.000	1.96809e-07	1.99013e-07	1.73303e-05	1.24424e-05	2.29097e-05
10.0000	4.15793e-08	9.53920e-08	2.57467e-06	6.24393e-06	2.01271e-05
1.00000	2.67143e-08	8.55877e-08	1.12199e-06	5.63589e-06	1.98546e-05
0.100000	2.52963e-08	8.46521e-08	9.78902e-07	5.57596e-06	1.98278e-05
0.0100000	2.51587e-08	8.45612e-08	9.64732e-07	5.57002e-06	1.98251e-05
0.00100000	2.51452e-08	8.45523e-08	9.63323e-07	5.56943e-06	1.98248e-05
0.000100000	2.51439e-08	8.45514e-08	9.63183e-07	5.56937e-06	1.98248e-05
1.00000e-05	2.51437e-08	8.45513e-08	9.63169e-07	5.56936e-06	1.98248e-05
1.00000e-06	2.51437e-08	8.45513e-08	9.63168e-07	5.56936e-06	1.98248e-05
1.00000e-07	2.51437e-08	8.45513e-08	9.63167e-07	5.56936e-06	1.98248e-05
1.00000e-08	2.51437e-08	8.45513e-08	9.63167e-07	5.56936e-06	1.98248e-05
1.00000e-09	2.51437e-08	8.45513e-08	9.63167e-07	5.56936e-06	1.98248e-05

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00131649	0.00134396	0.00130159	0.00120731	0.00108598
1.00000e+07	0.00320252	0.00273371	0.00222891	0.00177596	0.00140744
1.00000e+06	0.00279161	0.00201050	0.00141592	0.00101486	0.000767370
100000.	0.000982823	0.000610319	0.000428619	0.000362789	0.000356630
10000.0	0.000186507	0.000160795	0.000186034	0.000234539	0.000289458
1000.00	6.36593e-05	0.000102509	0.000158172	0.000221007	0.000282796
100.000	5.09509e-05	9.67356e-05	0.000155480	0.000219720	0.000282170
10.0000	4.97134e-05	9.61765e-05	0.000155221	0.000219596	0.000282110
1.00000	4.95924e-05	9.61219e-05	0.000155195	0.000219584	0.000282105
0.100000	4.95805e-05	9.61165e-05	0.000155193	0.000219583	0.000282104
0.0100000	4.95793e-05	9.61160e-05	0.000155192	0.000219583	0.000282104
0.00100000	4.95792e-05	9.61159e-05	0.000155192	0.000219583	0.000282104
0.000100000	4.95791e-05	9.61159e-05	0.000155192	0.000219583	0.000282104
1.00000e-05	4.95791e-05	9.61159e-05	0.000155192	0.000219583	0.000282104
1.00000e-06	4.95791e-05	9.61159e-05	0.000155192	0.000219583	0.000282104
1.00000e-07	4.95791e-05	9.61159e-05	0.000155192	0.000219583	0.000282104
1.00000e-08	4.95791e-05	9.61159e-05	0.000155192	0.000219583	0.000282104
1.00000e-09	4.95791e-05	9.61159e-05	0.000155192	0.000219583	0.000282104

Pa\K	3750.00	4000.00
1.00000e+08	0.000958347	0.000837410
1.00000e+07	0.00112413	0.000913681
1.00000e+06	0.000625182	0.000548147
100000.	0.000375925	0.000402007
10000.0	0.000341025	0.000384163
1000.00	0.000337734	0.000382561
100.000	0.000337429	0.000382415
10.0000	0.000337400	0.000382401
1.00000	0.000337397	0.000382400
0.100000	0.000337397	0.000382400
0.0100000	0.000337397	0.000382400
0.00100000	0.000337397	0.000382400
0.000100000	0.000337397	0.000382400
1.00000e-05	0.000337397	0.000382400
1.00000e-06	0.000337397	0.000382400
1.00000e-07	0.000337397	0.000382400
1.00000e-08	0.000337397	0.000382400
1.00000e-09	0.000337397	0.000382400

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	4.07086e-27	1.96240e-26	6.13680e-26	1.74698e-25	5.00128e-25

1.00000e+07	4.07057e-25	1.96212e-24	6.13552e-24	1.74651e-23	4.99965e-23
1.00000e+06	4.06771e-23	1.95936e-22	6.12281e-22	1.74181e-21	4.98336e-21
100000.	4.03941e-21	1.93230e-20	5.99959e-20	1.69664e-19	4.82836e-19
10000.0	3.78359e-19	1.70894e-18	5.05802e-18	1.37381e-17	3.78182e-17
1000.00	2.47703e-17	8.86220e-17	2.20755e-16	5.20809e-16	1.27918e-15
100.000	4.20364e-16	5.94735e-16	7.90035e-16	1.20772e-15	2.29047e-15
10.0000	1.36447e-16	6.22637e-17	5.72333e-17	8.32745e-17	2.13753e-16
1.00000	5.43377e-18	3.07608e-18	3.41789e-18	6.03715e-18	4.35594e-17
0.100000	4.14752e-19	2.66146e-19	3.13563e-19	7.30401e-19	2.95502e-17
0.0100000	4.02301e-20	2.60272e-20	3.09504e-20	2.27585e-19	2.81809e-17
0.00100000	4.28360e-21	3.41420e-21	5.01688e-21	1.82098e-19	2.80560e-17
0.000100000	3.78748e-21	8.45786e-21	1.83762e-20	2.14870e-19	2.81449e-17
1.00000e-05	2.90207e-20	6.09246e-20	1.18653e-19	4.22623e-19	2.86533e-17
1.00000e-06	9.81142e-20	1.09553e-19	1.39628e-19	3.90072e-19	2.84828e-17
1.00000e-07	2.60578e-20	1.42517e-20	1.39570e-20	1.92142e-19	2.80871e-17
1.00000e-08	1.64850e-21	9.48866e-22	1.09202e-21	1.73820e-19	2.80485e-17
1.00000e-09	1.38666e-22	8.65604e-23	1.73401e-22	1.72368e-19	2.80451e-17

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08	1.53288e-24	5.23379e-24	1.95518e-23	7.42785e-23	2.68296e-22
1.00000e+07	1.53230e-22	5.23166e-22	1.95434e-21	7.42448e-21	2.68164e-20
1.00000e+06	1.52659e-20	5.21047e-20	1.94599e-19	7.39099e-19	2.66858e-18
100000.	1.47269e-18	5.01168e-18	1.86817e-17	7.08077e-17	2.54859e-16
10000.0	1.12537e-16	3.77577e-16	1.39762e-15	5.25615e-15	1.86635e-14
1000.00	3.51516e-15	1.13980e-14	4.20358e-14	1.56800e-13	5.40038e-13
100.000	6.18747e-15	2.58269e-14	1.26720e-13	5.54538e-13	2.00902e-12
10.0000	1.60443e-15	1.67170e-14	1.22830e-13	6.25973e-13	2.39700e-12
1.00000	1.08801e-15	1.53177e-14	1.21100e-13	6.31696e-13	2.43908e-12
0.100000	1.03898e-15	1.51745e-14	1.20909e-13	6.32247e-13	2.44334e-12
0.0100000	1.03409e-15	1.51600e-14	1.20890e-13	6.32302e-13	2.44377e-12
0.00100000	1.03364e-15	1.51588e-14	1.20889e-13	6.32313e-13	2.44384e-12
0.000100000	1.03396e-15	1.51604e-14	1.20898e-13	6.32359e-13	2.44404e-12
1.00000e-05	1.03565e-15	1.51684e-14	1.20941e-13	6.32558e-13	2.44480e-12
1.00000e-06	1.03527e-15	1.51702e-14	1.20965e-13	6.32699e-13	2.44535e-12
1.00000e-07	1.03428e-15	1.51679e-14	1.20963e-13	6.32710e-13	2.44542e-12
1.00000e-08	1.03417e-15	1.51676e-14	1.20962e-13	6.32711e-13	2.44543e-12
1.00000e-09	1.03416e-15	1.51676e-14	1.20962e-13	6.32711e-13	2.44543e-12

Pa\K | 120.000 130.000 140.000 150.000 160.000

1.00000e+08	8.93476e-22	2.73267e-21	7.73718e-21	2.05079e-20	5.14365e-20
1.00000e+07	8.92990e-20	2.73099e-19	7.73170e-19	2.04910e-18	5.13867e-18
1.00000e+06	8.88178e-18	2.71436e-17	7.67763e-17	2.03246e-16	5.08980e-16
100000.	8.44411e-16	2.56507e-15	7.20025e-15	1.88838e-14	4.67649e-14
10000.0	6.05880e-14	1.79168e-13	4.86659e-13	1.22798e-12	2.90937e-12
1000.00	1.66168e-12	4.56881e-12	1.13597e-11	2.59038e-11	5.48787e-11
100.000	6.09583e-12	1.59520e-11	3.70326e-11	7.80678e-11	1.52233e-10
10.0000	7.38942e-12	1.93048e-11	4.43782e-11	9.22972e-11	1.77313e-10
1.00000	7.53907e-12	1.96999e-11	4.52454e-11	9.39679e-11	1.80233e-10
0.100000	7.55437e-12	1.97404e-11	4.53344e-11	9.41393e-11	1.80532e-10
0.0100000	7.55592e-12	1.97445e-11	4.53434e-11	9.41569e-11	1.80563e-10
0.00100000	7.55616e-12	1.97453e-11	4.53452e-11	9.41613e-11	1.80573e-10
0.000100000	7.55687e-12	1.97475e-11	4.53517e-11	9.41779e-11	1.80613e-10
1.00000e-05	7.55933e-12	1.97543e-11	4.53682e-11	9.42140e-11	1.80685e-10
1.00000e-06	7.56101e-12	1.97585e-11	4.53773e-11	9.42316e-11	1.80716e-10
1.00000e-07	7.56125e-12	1.97591e-11	4.53786e-11	9.42342e-11	1.80720e-10
1.00000e-08	7.56127e-12	1.97592e-11	4.53788e-11	9.42344e-11	1.80721e-10
1.00000e-09	7.56127e-12	1.97592e-11	4.53788e-11	9.42345e-11	1.80721e-10

Pa\K | 170.000 180.000 190.000 200.000 210.000

1.00000e+08	1.23194e-19	2.83824e-19	6.32583e-19	1.36992e-18	2.89231e-18
1.00000e+07	1.23053e-17	2.83439e-17	6.31562e-17	1.36729e-16	2.88571e-16
1.00000e+06	1.21676e-15	2.79691e-15	6.21685e-15	1.34199e-14	2.82259e-14
100000.	1.10336e-13	2.49785e-13	5.45575e-13	1.15452e-12	2.37457e-12
10000.0	6.53021e-12	1.39842e-11	2.87268e-11	5.68423e-11	1.08683e-10
1000.00	1.09202e-10	2.05929e-10	3.70688e-10	6.40698e-10	1.06841e-09
100.000	2.78593e-10	4.83896e-10	8.04789e-10	1.29051e-09	2.00611e-09
10.0000	3.19627e-10	5.47126e-10	8.97556e-10	1.42119e-09	2.18402e-09
1.00000	3.24355e-10	5.54333e-10	9.08019e-10	1.43578e-09	2.20370e-09
0.100000	3.24839e-10	5.55071e-10	9.09090e-10	1.43727e-09	2.20572e-09
0.0100000	3.24890e-10	5.55151e-10	9.09212e-10	1.43746e-09	2.20600e-09
0.00100000	3.24913e-10	5.55203e-10	9.09325e-10	1.43769e-09	2.20648e-09
0.000100000	3.25001e-10	5.55384e-10	9.09677e-10	1.43834e-09	2.20761e-09
1.00000e-05	3.25134e-10	5.55615e-10	9.10056e-10	1.43893e-09	2.20848e-09
1.00000e-06	3.25185e-10	5.55694e-10	9.10171e-10	1.43909e-09	2.20870e-09
1.00000e-07	3.25192e-10	5.55704e-10	9.10186e-10	1.43911e-09	2.20873e-09
1.00000e-08	3.25193e-10	5.55705e-10	9.10187e-10	1.43911e-09	2.20873e-09
1.00000e-09	3.25193e-10	5.55706e-10	9.10187e-10	1.43911e-09	2.20873e-09

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	5.96885e-18	1.20645e-17	2.39219e-17	4.65917e-17	8.92293e-17
1.00000e+07	5.95263e-16	1.20256e-15	2.38303e-15	4.63807e-15	8.87520e-15
1.00000e+06	5.79902e-14	1.16603e-13	2.29811e-13	4.44481e-13	8.44446e-13
100000.	4.75834e-12	9.30714e-12	1.77945e-11	3.32927e-11	6.10083e-11
10000.0	2.01295e-10	3.61860e-10	6.32405e-10	1.07601e-09	1.78466e-09
1000.00	1.72580e-09	2.70931e-09	4.14539e-09	6.19675e-09	9.06911e-09
100.000	3.03629e-09	4.48982e-09	6.50458e-09	9.25336e-09	1.29502e-08
10.0000	3.27159e-09	4.79338e-09	6.88787e-09	9.72829e-09	1.35290e-08
1.00000	3.29739e-09	4.82640e-09	6.92927e-09	9.77927e-09	1.35908e-08
0.100000	3.30004e-09	4.82981e-09	6.93359e-09	9.78467e-09	1.35975e-08
0.0100000	3.30048e-09	4.83052e-09	6.93476e-09	9.78668e-09	1.36009e-08
0.00100000	3.30141e-09	4.83224e-09	6.93784e-09	9.79195e-09	1.36097e-08
0.000100000	3.30329e-09	4.83524e-09	6.94244e-09	9.79875e-09	1.36194e-08
1.00000e-05	3.30455e-09	4.83697e-09	6.94475e-09	9.80175e-09	1.36232e-08
1.00000e-06	3.30483e-09	4.83733e-09	6.94519e-09	9.80228e-09	1.36238e-08
1.00000e-07	3.30486e-09	4.83737e-09	6.94524e-09	9.80234e-09	1.36239e-08
1.00000e-08	3.30486e-09	4.83738e-09	6.94525e-09	9.80235e-09	1.36239e-08
1.00000e-09	3.30486e-09	4.83738e-09	6.94525e-09	9.80235e-09	1.36239e-08

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	1.68181e-16	3.12213e-16	5.71235e-16	2.05684e-14	1.83494e-15
1.00000e+07	1.67122e-14	3.09902e-14	5.66281e-14	1.94337e-12	1.81327e-13
1.00000e+06	1.57713e-12	2.89752e-12	5.23948e-12	1.36531e-10	1.63657e-11
100000.	1.09576e-10	1.93009e-10	3.33575e-10	3.95791e-09	9.42743e-10
10000.0	2.88889e-09	4.56908e-09	7.06838e-09	2.33364e-08	1.58966e-08
1000.00	1.30185e-08	1.83593e-08	2.54722e-08	3.57780e-08	4.69219e-08
100.000	1.78573e-08	2.42930e-08	3.26395e-08	3.73176e-08	5.69659e-08
10.0000	1.85524e-08	2.51167e-08	3.36040e-08	3.74499e-08	5.82474e-08
1.00000	1.86263e-08	2.52040e-08	3.37060e-08	3.74644e-08	5.83829e-08
0.100000	1.86347e-08	2.52145e-08	3.37195e-08	3.74769e-08	5.84069e-08
0.0100000	1.86406e-08	2.52245e-08	3.37360e-08	3.75081e-08	5.84493e-08
0.00100000	1.86544e-08	2.52459e-08	3.37679e-08	3.75416e-08	5.85140e-08
0.000100000	1.86679e-08	2.52639e-08	3.37915e-08	3.75545e-08	5.85516e-08
1.00000e-05	1.86725e-08	2.52696e-08	3.37982e-08	3.75563e-08	5.85605e-08
1.00000e-06	1.86733e-08	2.52704e-08	3.37991e-08	3.75564e-08	5.85617e-08
1.00000e-07	1.86734e-08	2.52705e-08	3.37992e-08	3.75564e-08	5.85618e-08
1.00000e-08	1.86734e-08	2.52705e-08	3.37992e-08	3.75564e-08	5.85618e-08
1.00000e-09	1.86734e-08	2.52705e-08	3.37992e-08	3.75564e-08	5.85618e-08

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	2.79531e-12	3.24457e-10	4.02659e-08	2.54284e-06	3.30479e-05
1.00000e+07	2.30755e-10	1.96638e-08	8.40559e-07	1.20251e-05	6.37142e-05
1.00000e+06	1.02303e-08	3.95815e-07	5.92573e-06	2.81694e-05	7.78442e-05
100000.	1.24247e-07	1.55537e-06	1.00400e-05	3.25113e-05	7.02888e-05
10000.0	3.28504e-07	2.17151e-06	9.20877e-06	2.81429e-05	6.22595e-05
1000.00	3.94567e-07	2.25135e-06	8.54317e-06	2.50196e-05	5.62981e-05
100.000	4.02929e-07	2.25368e-06	8.27416e-06	2.30540e-05	5.14874e-05
10.0000	4.03801e-07	2.25345e-06	8.20349e-06	2.24073e-05	4.99965e-05
1.00000	4.04106e-07	2.25792e-06	8.21835e-06	2.23726e-05	4.98754e-05
0.100000	4.04724e-07	2.26362e-06	8.23427e-06	2.23885e-05	4.98800e-05
0.0100000	4.05376e-07	2.26639e-06	8.23882e-06	2.23923e-05	4.98817e-05
0.00100000	4.05655e-07	2.26702e-06	8.23952e-06	2.23928e-05	4.98819e-05
0.000100000	4.05709e-07	2.26710e-06	8.23960e-06	2.23928e-05	4.98819e-05
1.00000e-05	4.05716e-07	2.26711e-06	8.23960e-06	2.23928e-05	4.98819e-05
1.00000e-06	4.05716e-07	2.26711e-06	8.23960e-06	2.23928e-05	4.98819e-05
1.00000e-07	4.05716e-07	2.26711e-06	8.23960e-06	2.23928e-05	4.98819e-05
1.00000e-08	4.05716e-07	2.26711e-06	8.23960e-06	2.23928e-05	4.98819e-05
1.00000e-09	4.05716e-07	2.26711e-06	8.23960e-06	2.23928e-05	4.98819e-05

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.000134472	0.000316861	0.000561768	0.000724694	0.000740256
1.00000e+07	0.000179220	0.000383327	0.000719757	0.00110390	0.00143614
1.00000e+06	0.000165199	0.000310087	0.000535384	0.000803585	0.00109824
100000.	0.000129808	0.000220608	0.000350750	0.000516127	0.000718885
10000.0	0.000113988	0.000189626	0.000296681	0.000440317	0.000624032
1000.00	0.000104698	0.000176688	0.000280196	0.000421380	0.000603901
100.000	9.82787e-05	0.000170328	0.000274614	0.000416744	0.000600286
10.0000	9.67623e-05	0.000169230	0.000273876	0.000416251	0.000599995
1.00000	9.66539e-05	0.000169162	0.000273830	0.000416217	0.000599978
0.100000	9.66532e-05	0.000169160	0.000273827	0.000416215	0.000599977
0.0100000	9.66537e-05	0.000169160	0.000273827	0.000416215	0.000599977
0.00100000	9.66537e-05	0.000169160	0.000273827	0.000416215	0.000599977
0.000100000	9.66537e-05	0.000169160	0.000273827	0.000416215	0.000599977
1.00000e-05	9.66537e-05	0.000169160	0.000273827	0.000416215	0.000599977

1.00000e-06	9.66537e-05	0.000169160	0.000273827	0.000416215	0.000599977
1.00000e-07	9.66537e-05	0.000169160	0.000273827	0.000416215	0.000599977
1.00000e-08	9.66537e-05	0.000169160	0.000273827	0.000416215	0.000599977
1.00000e-09	9.66537e-05	0.000169160	0.000273827	0.000416215	0.000599977

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.000690907	0.000653913	0.00250367	0.00282498	0.00304149
1.00000e+07	0.00169249	0.00186588	0.00403006	0.00419530	0.00411762
1.00000e+06	0.00140066	0.00164447	0.00303398	0.00336811	0.00363601
100000.	0.000956049	0.00120902	0.00217786	0.00291274	0.00345371
10000.0	0.000848136	0.00110839	0.00202159	0.00284030	0.00342853
1000.00	0.000828435	0.00109202	0.00200229	0.00283223	0.00342598
100.000	0.000825938	0.00109077	0.00200147	0.00283201	0.00342589
10.0000	0.000825853	0.00109089	0.00200168	0.00283209	0.00342590
1.00000	0.000825858	0.00109093	0.00200172	0.00283210	0.00342590
0.100000	0.000825859	0.00109093	0.00200172	0.00283210	0.00342591
0.0100000	0.000825859	0.00109093	0.00200172	0.00283210	0.00342591
0.00100000	0.000825859	0.00109093	0.00200173	0.00283210	0.00342591
0.000100000	0.000825859	0.00109093	0.00200173	0.00283210	0.00342591
1.00000e-05	0.000825859	0.00109093	0.00200173	0.00283210	0.00342591
1.00000e-06	0.000825859	0.00109093	0.00200173	0.00283210	0.00342591
1.00000e-07	0.000825859	0.00109093	0.00200173	0.00283210	0.00342591
1.00000e-08	0.000825859	0.00109093	0.00200173	0.00283210	0.00342591
1.00000e-09	0.000825859	0.00109093	0.00200173	0.00283210	0.00342591

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00313438	0.00310249	0.00296694	0.00276278	0.00252531
1.00000e+07	0.00394360	0.00369969	0.00339820	0.00306669	0.00273434
1.00000e+06	0.00374177	0.00364814	0.00340673	0.00309146	0.00275846
100000.	0.00368656	0.00363945	0.00341149	0.00309820	0.00276394
10000.0	0.00368068	0.00363959	0.00341287	0.00309945	0.00276481
1000.00	0.00368022	0.00363972	0.00341308	0.00309961	0.00276493
100.000	0.00368022	0.00363975	0.00341311	0.00309963	0.00276494
10.0000	0.00368022	0.00363976	0.00341312	0.00309964	0.00276494
1.00000	0.00368022	0.00363976	0.00341312	0.00309964	0.00276494
0.100000	0.00368022	0.00363976	0.00341312	0.00309964	0.00276494
0.0100000	0.00368022	0.00363976	0.00341312	0.00309964	0.00276494
0.00100000	0.00368022	0.00363976	0.00341312	0.00309964	0.00276494
0.000100000	0.00368022	0.00363976	0.00341312	0.00309964	0.00276494
1.00000e-05	0.00368022	0.00363976	0.00341312	0.00309964	0.00276494
1.00000e-06	0.00368022	0.00363976	0.00341312	0.00309964	0.00276494
1.00000e-07	0.00368022	0.00363976	0.00341312	0.00309964	0.00276494
1.00000e-08	0.00368022	0.00363976	0.00341312	0.00309964	0.00276494
1.00000e-09	0.00368022	0.00363976	0.00341312	0.00309964	0.00276494

Pa\K	3750.00	4000.00
1.00000e+08	0.00228143	0.00204802
1.00000e+07	0.00242163	0.00213934
1.00000e+06	0.00244026	0.00215219
100000.	0.00244404	0.00215459
10000.0	0.00244459	0.00215492
1000.00	0.00244466	0.00215496
100.000	0.00244467	0.00215497
10.0000	0.00244467	0.00215497
1.00000	0.00244467	0.00215497
0.100000	0.00244467	0.00215497
0.0100000	0.00244467	0.00215497
0.00100000	0.00244467	0.00215497
0.000100000	0.00244467	0.00215497
1.00000e-05	0.00244467	0.00215497
1.00000e-06	0.00244467	0.00215497
1.00000e-07	0.00244467	0.00215497
1.00000e-08	0.00244467	0.00215497
1.00000e-09	0.00244467	0.00215497

Ph+MeAc

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	7.91728e-71	8.20016e-69	2.02796e-67	3.18621e-66	4.18211e-65
1.00000e+07	2.70547e-64	4.00263e-62	9.81582e-61	1.38939e-59	1.60399e-58
1.00000e+06	7.90534e-58	7.74461e-56	1.56259e-54	1.96431e-53	2.08784e-52
100000.	8.54770e-52	6.97167e-50	1.24868e-48	1.42095e-47	1.38078e-46
10000.0	3.79160e-46	1.67307e-44	1.89264e-43	1.48653e-42	1.05808e-41
1000.00	8.98408e-42	1.10927e-40	6.10195e-40	2.94568e-39	1.47595e-38
100.000	4.90419e-39	3.37370e-38	1.56287e-37	7.16908e-37	3.66822e-36
10.0000	1.24744e-36	9.77565e-36	4.78523e-35	2.23717e-34	1.15412e-33

1.00000	3.45778e-34	2.13697e-33	8.76039e-33	3.55811e-32	1.63634e-31
0.100000	4.21063e-32	2.11620e-31	7.66991e-31	2.81872e-30	1.18616e-29
0.0100000	2.48619e-30	8.63685e-30	2.41288e-29	7.18666e-29	2.51566e-28
0.00100000	3.68287e-29	8.42781e-29	1.86014e-28	4.63717e-28	1.39570e-27
0.000100000	1.25263e-28	1.33584e-28	1.71547e-28	2.81691e-28	6.05800e-28
1.00000e-05	1.47782e-29	4.86749e-30	3.60257e-30	4.32683e-30	7.70206e-30
1.00000e-06	1.09009e-31	3.18040e-32	2.47936e-32	3.25580e-32	6.63294e-32
1.00000e-07	1.10602e-33	4.57353e-34	4.52427e-34	7.41900e-34	2.01049e-33
1.00000e-08	3.66125e-35	2.15663e-35	2.60488e-35	4.98432e-35	1.56313e-34
1.00000e-09	2.86072e-36	1.89592e-36	2.40196e-36	4.73214e-36	1.51761e-35

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	5.32864e-64	7.52457e-63	1.36423e-61	3.61611e-60	1.41049e-58
1.00000e+07	1.79169e-57	2.22318e-56	3.56209e-55	8.46588e-54	3.03849e-52
1.00000e+06	2.19026e-51	2.58401e-50	3.97258e-49	9.14177e-48	3.20782e-46
100000.	1.33335e-45	1.45798e-44	2.10020e-43	4.61211e-42	1.57262e-40
10000.0	7.84069e-41	6.89398e-40	8.53470e-39	1.77942e-37	6.25576e-36
1000.00	8.57659e-38	6.72928e-37	9.08563e-36	2.53600e-34	1.21945e-32
100.000	2.35574e-35	2.26992e-34	4.11935e-33	1.46183e-31	7.61683e-30
10.0000	7.51948e-33	7.47855e-32	1.41264e-30	4.98770e-29	2.29987e-27
1.00000	9.75156e-31	9.18215e-30	1.71298e-28	6.12909e-27	2.78644e-25
0.100000	6.52332e-29	5.72392e-28	1.01267e-26	3.55313e-25	1.58966e-23
0.0100000	1.16680e-27	8.74162e-27	1.38885e-25	5.04890e-24	2.44648e-22
0.00100000	5.65265e-27	3.75139e-26	5.55809e-25	2.29455e-23	1.27551e-21
0.000100000	1.86258e-27	1.00967e-26	1.64784e-25	2.02815e-23	1.79024e-21
1.00000e-05	2.17056e-29	1.47614e-28	1.03552e-26	1.61661e-23	1.77215e-21
1.00000e-06	2.60288e-31	4.87477e-30	2.60441e-27	1.57876e-23	1.76898e-21
1.00000e-07	1.27683e-32	4.10397e-31	1.94114e-27	1.57509e-23	1.76865e-21
1.00000e-08	1.14961e-33	4.02954e-32	1.87584e-27	1.57473e-23	1.76862e-21
1.00000e-09	1.13683e-34	4.02211e-33	1.86932e-27	1.57469e-23	1.76862e-21

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	6.60779e-57	3.04929e-55	1.21045e-53	4.09341e-52	1.13526e-50
1.00000e+07	1.32937e-50	5.71672e-49	2.09479e-47	6.47494e-46	1.63483e-44
1.00000e+06	1.37743e-44	5.80102e-43	2.07199e-41	6.20595e-40	1.51115e-38
100000.	6.53381e-39	2.60707e-37	8.61628e-36	2.32375e-34	4.99769e-33
10000.0	2.60236e-34	9.66978e-33	2.80579e-31	6.34956e-30	1.12243e-28
1000.00	5.83822e-31	2.19169e-29	5.98797e-28	1.22558e-26	1.92267e-25
100.000	3.48326e-28	1.17909e-26	2.84023e-25	5.04078e-24	6.81875e-23
10.0000	8.76993e-26	2.45541e-24	4.97545e-23	7.55531e-22	8.91642e-21
1.00000	1.00714e-23	2.62388e-22	4.91886e-21	6.89071e-20	7.49470e-19
0.100000	5.48031e-22	1.32945e-20	2.28366e-19	2.89525e-18	2.82638e-17
0.0100000	8.50410e-21	1.99556e-19	3.24074e-18	3.83272e-17	3.46303e-16
0.00100000	4.54487e-20	1.03968e-18	1.60300e-17	1.77222e-16	1.48295e-15
0.000100000	7.16217e-20	1.67279e-18	2.55221e-17	2.74945e-16	2.22681e-15
1.00000e-05	7.39528e-20	1.76071e-18	2.69717e-17	2.90263e-16	2.34310e-15
1.00000e-06	7.41850e-20	1.76948e-18	2.71211e-17	2.91862e-16	2.35529e-15
1.00000e-07	7.42080e-20	1.77036e-18	2.71361e-17	2.92023e-16	2.35652e-15
1.00000e-08	7.42103e-20	1.77044e-18	2.71376e-17	2.92039e-16	2.35664e-15
1.00000e-09	7.42105e-20	1.77045e-18	2.71377e-17	2.92040e-16	2.35665e-15

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.61867e-49	5.09602e-48	8.70118e-47	1.29756e-45	1.70664e-44
1.00000e+07	3.43066e-43	6.08053e-42	9.45480e-41	1.28665e-39	1.54702e-38
1.00000e+06	3.04456e-37	5.15808e-36	7.61093e-35	9.76957e-34	1.10164e-32
100000.	8.74637e-32	1.26968e-30	1.57379e-29	1.67811e-28	1.56050e-27
10000.0	1.59670e-27	1.87641e-26	1.87174e-25	1.61011e-24	1.21390e-23
1000.00	2.39868e-24	2.45276e-23	2.11099e-22	1.55907e-21	1.00533e-20
100.000	7.30727e-22	6.41036e-21	4.73507e-20	3.01318e-19	1.68452e-18
10.0000	8.48199e-20	6.70798e-19	4.52537e-18	2.65825e-17	1.38252e-16
1.00000	6.55773e-18	4.75458e-17	2.92708e-16	1.56102e-15	7.33260e-15
0.100000	2.20698e-16	1.42327e-15	7.78383e-15	3.68953e-14	1.54318e-13
0.0100000	2.49024e-15	1.47381e-14	7.37813e-14	3.19493e-13	1.21891e-12
0.00100000	9.82015e-15	5.33567e-14	2.44938e-13	9.72930e-13	3.41011e-12
0.000100000	1.42384e-14	7.46926e-14	3.31444e-13	1.27505e-12	4.33804e-12
1.00000e-05	1.49180e-14	7.79013e-14	3.44125e-13	1.31818e-12	4.46704e-12
1.00000e-06	1.49894e-14	7.82376e-14	3.45451e-13	1.32267e-12	4.48045e-12
1.00000e-07	1.49965e-14	7.82713e-14	3.45584e-13	1.32313e-12	4.48179e-12
1.00000e-08	1.49972e-14	7.82747e-14	3.45597e-13	1.32317e-12	4.48193e-12
1.00000e-09	1.49973e-14	7.82751e-14	3.45599e-13	1.32317e-12	4.48194e-12

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.00182e-43	2.15419e-42	2.08608e-41	1.79979e-40	1.39994e-39
1.00000e+07	1.66116e-37	1.63952e-36	1.46356e-35	1.16690e-34	8.41978e-34
1.00000e+06	1.10396e-31	1.00563e-30	8.25539e-30	6.07876e-29	4.05709e-28
100000.	1.28377e-26	9.47962e-26	6.31342e-25	3.81530e-24	2.10830e-23

10000.0	8.13724e-23	4.90775e-22	2.68593e-21	1.34436e-20	6.19600e-20
1000.00	5.74393e-20	2.94383e-19	1.36766e-18	5.81356e-18	2.27969e-17
100.000	8.41060e-18	3.80200e-17	1.57382e-16	6.02197e-16	2.14642e-15
10.0000	6.45241e-16	2.73184e-15	1.05859e-14	3.78232e-14	1.25402e-13
1.00000	3.07641e-14	1.16653e-13	4.03836e-13	1.28755e-12	3.80952e-12
0.100000	5.78069e-13	1.96343e-12	6.10957e-12	1.75689e-11	4.70367e-11
0.0100000	4.15998e-12	1.28637e-11	3.64314e-11	9.53715e-11	2.32610e-10
0.00100000	1.07188e-11	3.06253e-11	8.04431e-11	1.96125e-10	4.47461e-10
0.000100000	1.32681e-11	3.69784e-11	9.49746e-11	2.26935e-10	5.08523e-10
1.00000e-05	1.36135e-11	3.78184e-11	9.68523e-11	2.30831e-10	5.16091e-10
1.00000e-06	1.36493e-11	3.79052e-11	9.70458e-11	2.31232e-10	5.16866e-10
1.00000e-07	1.36529e-11	3.79140e-11	9.70652e-11	2.31272e-10	5.16944e-10
1.00000e-08	1.36533e-11	3.79148e-11	9.70671e-11	2.31276e-10	5.16952e-10
1.00000e-09	1.36533e-11	3.79149e-11	9.70673e-11	2.31276e-10	5.16953e-10

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	9.84302e-39	6.25333e-38	3.59519e-37	1.48410e-28	8.90436e-36
1.00000e+07	5.52182e-33	3.29294e-32	1.79025e-31	1.13291e-23	4.06657e-30
1.00000e+06	2.46595e-27	1.36715e-26	6.93371e-26	1.88896e-19	1.38470e-24
100000.	1.07138e-22	5.02555e-22	2.18352e-21	1.43859e-16	3.31687e-20
10000.0	2.64461e-19	1.05029e-18	3.89662e-18	5.46226e-15	4.43306e-17
1000.00	8.30712e-17	2.83117e-16	9.07603e-16	1.25934e-13	7.91293e-15
100.000	7.17165e-15	2.25772e-14	6.72466e-14	3.82841e-12	5.11894e-13
10.0000	3.87943e-13	1.12535e-12	3.07466e-12	7.37081e-11	1.94840e-11
1.00000	1.05295e-11	2.73471e-11	6.70820e-11	7.34492e-10	3.46110e-10
0.100000	1.17990e-10	2.78848e-10	6.23871e-10	3.40948e-09	2.69386e-09
0.0100000	5.32217e-10	1.14922e-09	2.35426e-09	6.40299e-09	8.59091e-09
0.00100000	9.62024e-10	1.96082e-09	3.80866e-09	6.41208e-09	1.26564e-08
0.000100000	1.07596e-09	2.16222e-09	4.14771e-09	6.14920e-09	1.35016e-08
1.00000e-05	1.08982e-09	2.18630e-09	4.18762e-09	6.11467e-09	1.35983e-08
1.00000e-06	1.09124e-09	2.18876e-09	4.19168e-09	6.11120e-09	1.36082e-08
1.00000e-07	1.09138e-09	2.18901e-09	4.19209e-09	6.11085e-09	1.36091e-08
1.00000e-08	1.09140e-09	2.18903e-09	4.19213e-09	6.11081e-09	1.36092e-08
1.00000e-09	1.09140e-09	2.18903e-09	4.19214e-09	6.11081e-09	1.36092e-08

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	2.12754e-18	9.55020e-13	2.34291e-10	3.83679e-08	1.01085e-06
1.00000e+07	3.54988e-14	3.05428e-09	1.84602e-07	1.31017e-06	5.47170e-06
1.00000e+06	1.13139e-11	1.02508e-07	3.13824e-06	1.08126e-05	1.88224e-05
100000.	1.51225e-10	1.86702e-07	4.16075e-06	1.49410e-05	2.56269e-05
10000.0	1.80726e-10	8.50148e-08	1.87157e-06	9.82410e-06	2.42291e-05
1000.00	2.43690e-10	4.99904e-08	1.28330e-06	1.00730e-05	3.97060e-05
100.000	2.70529e-09	2.09725e-07	3.79296e-06	2.72491e-05	9.91329e-05
10.0000	2.56463e-08	1.18601e-06	1.39199e-05	6.66684e-05	0.000175694
1.00000	1.41737e-07	3.81921e-06	2.83951e-05	9.71373e-05	0.000209211
0.100000	3.78212e-07	6.40240e-06	3.55562e-05	0.000104663	0.000212787
0.0100000	5.19815e-07	7.21164e-06	3.67101e-05	0.000104958	0.000212284
0.00100000	5.39003e-07	7.29555e-06	3.67630e-05	0.000104873	0.000212148
0.000100000	5.39430e-07	7.30028e-06	3.67620e-05	0.000104860	0.000212133
1.00000e-05	5.39414e-07	7.30061e-06	3.67618e-05	0.000104858	0.000212132
1.00000e-06	5.39411e-07	7.30064e-06	3.67618e-05	0.000104858	0.000212132
1.00000e-07	5.39411e-07	7.30064e-06	3.67618e-05	0.000104858	0.000212132
1.00000e-08	5.39411e-07	7.30064e-06	3.67618e-05	0.000104858	0.000212132
1.00000e-09	5.39411e-07	7.30064e-06	3.67618e-05	0.000104858	0.000212132

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	3.83327e-06	7.54381e-06	1.15536e-05	1.37521e-05	1.36013e-05
1.00000e+07	1.84116e-05	5.32664e-05	0.000115193	0.000174906	0.000210175
1.00000e+06	3.48264e-05	8.82123e-05	0.000203133	0.000326739	0.000412872
100000.	4.14646e-05	8.38857e-05	0.000175433	0.000308493	0.000442470
10000.0	5.23223e-05	0.000119733	0.000249472	0.000420896	0.000572666
1000.00	0.000112415	0.000245227	0.000420725	0.000589260	0.000711848
100.000	0.000231258	0.000398223	0.000561972	0.000694678	0.000788175
10.0000	0.000321778	0.000473552	0.000611465	0.000724478	0.000808256
1.00000	0.000345185	0.000486244	0.000617589	0.000727744	0.000810649
0.100000	0.000345801	0.000486154	0.000617533	0.000727815	0.000810815
0.0100000	0.000345315	0.000485934	0.000617468	0.000727812	0.000810834
0.00100000	0.000345235	0.000485906	0.000617462	0.000727813	0.000810838
0.000100000	0.000345227	0.000485903	0.000617461	0.000727813	0.000810838
1.00000e-05	0.000345227	0.000485903	0.000617461	0.000727813	0.000810838
1.00000e-06	0.000345227	0.000485903	0.000617461	0.000727814	0.000810838
1.00000e-07	0.000345227	0.000485903	0.000617461	0.000727814	0.000810838
1.00000e-08	0.000345227	0.000485903	0.000617461	0.000727814	0.000810838
1.00000e-09	0.000345227	0.000485903	0.000617461	0.000727814	0.000810838

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
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1.00000e+08	1.21812e-05	1.03818e-05	0.00350319	0.00371029	0.00386559
1.00000e+07	0.000223766	0.000222632	0.00371452	0.00360219	0.00353169
1.00000e+06	0.000466155	0.000504812	0.00194076	0.00210695	0.00237513
100000.	0.000545691	0.000621735	0.00122257	0.00149473	0.00183683
10000.0	0.000673753	0.000735732	0.00102279	0.00126126	0.00165111
1000.00	0.000787056	0.000831661	0.00100603	0.00122923	0.00162596
100.000	0.000848032	0.000884582	0.00102541	0.00123201	0.00162467
10.0000	0.000864257	0.000898908	0.00103176	0.00123320	0.00162469
1.00000	0.000866460	0.000901008	0.00103274	0.00123338	0.00162469
0.100000	0.000866677	0.000901237	0.00103285	0.00123340	0.00162470
0.0100000	0.000866703	0.000901264	0.00103286	0.00123340	0.00162470
0.00100000	0.000866707	0.000901267	0.00103286	0.00123340	0.00162470
0.000100000	0.000866707	0.000901268	0.00103286	0.00123340	0.00162470
1.00000e-05	0.000866707	0.000901268	0.00103286	0.00123340	0.00162470
1.00000e-06	0.000866707	0.000901268	0.00103286	0.00123340	0.00162470
1.00000e-07	0.000866707	0.000901268	0.00103286	0.00123340	0.00162470
1.00000e-08	0.000866707	0.000901268	0.00103286	0.00123340	0.00162470
1.00000e-09	0.000866707	0.000901268	0.00103286	0.00123340	0.00162470

Pa\K | 2500.00 2750.00 3000.00 3250.00 3500.00

1.00000e+08	0.00394562	0.00395008	0.00389735	0.00381185	0.00371188
1.00000e+07	0.00353107	0.00357686	0.00363432	0.00367842	0.00369291
1.00000e+06	0.00267520	0.00297793	0.00325102	0.00346193	0.00359094
100000.	0.00226479	0.00271580	0.00310861	0.00339568	0.00356577
10000.0	0.00215331	0.00266076	0.00308529	0.00338734	0.00356370
1000.00	0.00213980	0.00265491	0.00308317	0.00338677	0.00356368
100.000	0.00213874	0.00265443	0.00308301	0.00338674	0.00356370
10.0000	0.00213865	0.00265439	0.00308300	0.00338674	0.00356370
1.00000	0.00213865	0.00265439	0.00308300	0.00338674	0.00356370
0.100000	0.00213865	0.00265438	0.00308300	0.00338674	0.00356370
0.0100000	0.00213865	0.00265438	0.00308300	0.00338674	0.00356370
0.00100000	0.00213865	0.00265438	0.00308300	0.00338674	0.00356370
0.000100000	0.00213865	0.00265438	0.00308300	0.00338674	0.00356370
1.00000e-05	0.00213865	0.00265438	0.00308300	0.00338674	0.00356370
1.00000e-06	0.00213865	0.00265438	0.00308300	0.00338674	0.00356370
1.00000e-07	0.00213865	0.00265438	0.00308300	0.00338674	0.00356370
1.00000e-08	0.00213865	0.00265438	0.00308300	0.00338674	0.00356370
1.00000e-09	0.00213865	0.00265438	0.00308300	0.00338674	0.00356370

Pa\K | 3750.00 4000.00

1.00000e+08	0.00360592	0.00349556
1.00000e+07	0.00366855	0.00360319
1.00000e+06	0.00363543	0.00360555
100000.	0.00362961	0.00360754
10000.0	0.00362985	0.00360846
1000.00	0.00363001	0.00360863
100.000	0.00363003	0.00360866
10.0000	0.00363004	0.00360866
1.00000	0.00363004	0.00360866
0.100000	0.00363004	0.00360866
0.0100000	0.00363004	0.00360866
0.00100000	0.00363004	0.00360866
0.000100000	0.00363004	0.00360866
1.00000e-05	0.00363004	0.00360866
1.00000e-06	0.00363004	0.00360866
1.00000e-07	0.00363004	0.00360866
1.00000e-08	0.00363004	0.00360866
1.00000e-09	0.00363004	0.00360866

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08	3.57958e-42	6.61880e-41	4.05240e-40	1.68050e-39	5.77429e-39
1.00000e+07	3.58365e-38	6.64368e-37	4.08072e-36	1.69829e-35	5.85817e-35
1.00000e+06	3.70710e-34	7.14232e-33	4.53974e-32	1.94945e-31	6.92680e-31
100000.	4.83834e-30	1.04424e-28	7.00148e-28	3.09082e-27	1.11390e-26
10000.0	7.34480e-26	1.37607e-24	8.21873e-24	3.30422e-23	1.09865e-22
1000.00	5.20810e-22	6.57234e-21	3.02525e-20	9.99970e-20	2.83330e-19
100.000	7.19600e-19	4.87124e-18	1.59463e-17	4.22657e-17	1.02015e-16
10.0000	1.34241e-16	5.49151e-16	1.40618e-15	3.22382e-15	7.05076e-15
1.00000	5.47678e-15	1.49052e-14	3.11125e-14	6.42343e-14	1.32354e-13
0.100000	5.77153e-14	1.03478e-13	1.76160e-13	3.41627e-13	6.96633e-13
0.0100000	1.04723e-13	9.58772e-14	1.50255e-13	3.88036e-13	9.70170e-13
0.00100000	2.22422e-14	1.76111e-14	7.21110e-14	3.29662e-13	9.65449e-13
0.000100000	2.42860e-15	4.75044e-15	6.04544e-14	3.20858e-13	9.63173e-13
1.00000e-05	2.53480e-16	3.39739e-15	5.92426e-14	3.19950e-13	9.62947e-13
1.00000e-06	4.14345e-17	3.27649e-15	5.91500e-14	3.19922e-13	9.63064e-13

1.00000e-07 | 4.19637e-17 3.28381e-15 5.91643e-14 3.19975e-13 9.63221e-13
1.00000e-08 | 2.38079e-17 3.25540e-15 5.91309e-14 3.19950e-13 9.63225e-13
1.00000e-09 | 1.04101e-17 3.24587e-15 5.91221e-14 3.19943e-13 9.63223e-13

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.79299e-38	5.27133e-38	1.51027e-37	4.29880e-37	1.23392e-36
1.00000e+07	1.82686e-34	5.39699e-34	1.55495e-33	4.45441e-33	1.28474e-32
1.00000e+06	2.22379e-30	6.76614e-30	2.01001e-29	5.94566e-29	1.77297e-28
100000.	3.59665e-26	1.09336e-25	3.22430e-25	9.40092e-25	2.74129e-24
10000.0	3.29171e-22	9.28542e-22	2.52971e-21	6.76194e-21	1.79001e-20
1000.00	7.36079e-19	1.80913e-18	4.28197e-18	9.87589e-18	2.23779e-17
100.000	2.31885e-16	5.02768e-16	1.04975e-15	2.13017e-15	4.23504e-15
10.0000	1.47373e-14	2.93736e-14	5.60912e-14	1.03490e-13	1.86094e-13
1.00000	2.62296e-13	4.91678e-13	8.74331e-13	1.48986e-12	2.45831e-12
0.100000	1.34865e-12	2.40855e-12	4.00151e-12	6.28698e-12	9.48351e-12
0.0100000	2.02429e-12	3.64462e-12	5.92717e-12	9.00569e-12	1.30830e-11
0.00100000	2.10299e-12	3.82553e-12	6.21947e-12	9.41262e-12	1.36053e-11
0.000100000	2.11030e-12	3.84418e-12	6.25014e-12	9.45540e-12	1.36601e-11
1.00000e-05	2.11108e-12	3.84618e-12	6.25349e-12	9.46027e-12	1.36668e-11
1.00000e-06	2.11145e-12	3.84695e-12	6.25488e-12	9.46256e-12	1.36704e-11
1.00000e-07	2.11180e-12	3.84757e-12	6.25586e-12	9.46396e-12	1.36723e-11
1.00000e-08	2.11185e-12	3.84769e-12	6.25604e-12	9.46421e-12	1.36726e-11
1.00000e-09	2.11185e-12	3.84770e-12	6.25606e-12	9.46424e-12	1.36726e-11

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	3.79051e-36	2.44721e-35	5.97210e-34	1.52975e-32	2.83593e-31
1.00000e+07	3.75863e-32	1.13024e-31	3.93294e-31	2.54330e-30	3.13625e-29
1.00000e+06	5.36350e-28	1.64867e-27	5.14427e-27	1.63304e-26	5.39611e-26
100000.	8.03955e-24	2.37416e-23	7.04707e-23	2.09530e-22	6.21635e-22
10000.0	4.71407e-20	1.23636e-19	3.22541e-19	8.35065e-19	2.13999e-18
1000.00	5.00797e-17	1.11006e-16	2.43979e-16	5.31673e-16	1.14797e-15
100.000	8.30024e-15	1.61003e-14	3.09709e-14	5.91113e-14	1.11889e-13
10.0000	3.28454e-13	5.71868e-13	9.85189e-13	1.68191e-12	2.84665e-12
1.00000	3.96124e-12	6.27113e-12	9.79118e-12	1.51079e-11	2.30596e-11
0.100000	1.38977e-11	1.99581e-11	2.82564e-11	3.95972e-11	5.50610e-11
0.0100000	1.84612e-11	2.55736e-11	3.50237e-11	4.76324e-11	6.44987e-11
0.00100000	1.90996e-11	2.63306e-11	3.59041e-11	4.86440e-11	6.56524e-11
0.000100000	1.91665e-11	2.64098e-11	3.59967e-11	4.87519e-11	6.57785e-11
1.00000e-05	1.91754e-11	2.64220e-11	3.60135e-11	4.87757e-11	6.58127e-11
1.00000e-06	1.91808e-11	2.64298e-11	3.60245e-11	4.87907e-11	6.58326e-11
1.00000e-07	1.91832e-11	2.64328e-11	3.60282e-11	4.87950e-11	6.58377e-11
1.00000e-08	1.91836e-11	2.64332e-11	3.60287e-11	4.87956e-11	6.58383e-11
1.00000e-09	1.91836e-11	2.64333e-11	3.60287e-11	4.87956e-11	6.58384e-11

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.91311e-30	4.19277e-29	3.62353e-28	2.60421e-27	1.59782e-26
1.00000e+07	3.98870e-28	4.19719e-27	3.60829e-26	2.58754e-25	1.58537e-24
1.00000e+06	1.99533e-25	9.07537e-25	4.99326e-24	2.91322e-23	1.62177e-22
100000.	1.83396e-21	5.36954e-21	1.56057e-20	4.51429e-20	1.30511e-19
10000.0	5.41504e-18	1.35025e-17	3.31279e-17	7.98936e-17	1.89298e-16
1000.00	2.45358e-15	5.18595e-15	1.08295e-14	2.23244e-14	4.53959e-14
100.000	2.09842e-13	3.89487e-13	7.14674e-13	1.29516e-12	2.31632e-12
10.0000	4.77555e-12	7.93631e-12	1.30557e-11	2.12438e-11	3.41656e-11
1.00000	3.48230e-11	5.20224e-11	7.68630e-11	1.12295e-10	1.62208e-10
0.100000	7.60827e-11	1.04550e-10	1.42924e-10	1.94394e-10	2.63057e-10
0.0100000	8.70762e-11	1.17270e-10	1.57559e-10	2.11146e-10	2.82138e-10
0.00100000	8.83859e-11	1.18754e-10	1.59238e-10	2.13045e-10	2.84293e-10
0.000100000	8.85355e-11	1.18935e-10	1.59462e-10	2.13331e-10	2.84667e-10
1.00000e-05	8.85846e-11	1.19004e-10	1.59561e-10	2.13467e-10	2.84849e-10
1.00000e-06	8.86104e-11	1.19037e-10	1.59601e-10	2.13516e-10	2.84908e-10
1.00000e-07	8.86162e-11	1.19044e-10	1.59608e-10	2.13524e-10	2.84917e-10
1.00000e-08	8.86169e-11	1.19045e-10	1.59609e-10	2.13525e-10	2.84918e-10
1.00000e-09	8.86170e-11	1.19045e-10	1.59609e-10	2.13525e-10	2.84918e-10

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	8.55428e-26	4.06919e-25	1.74596e-24	6.84292e-24	2.47579e-23
1.00000e+07	8.47737e-24	4.02762e-23	1.72580e-22	6.75371e-22	2.43937e-21
1.00000e+06	8.25274e-22	3.80485e-21	1.59547e-20	6.13193e-20	2.17793e-19
100000.	3.78347e-19	1.09981e-18	3.19192e-18	9.18000e-18	2.59452e-17
10000.0	4.40614e-16	1.00778e-15	2.26623e-15	5.01428e-15	1.09269e-14
1000.00	9.09995e-14	1.79726e-13	3.49576e-13	6.69415e-13	1.26180e-12
100.000	4.08588e-12	7.10579e-12	1.21808e-11	2.05790e-11	3.42655e-11
10.0000	5.42724e-11	8.51042e-11	1.31674e-10	2.00945e-10	3.02401e-10
1.00000	2.31666e-10	3.27184e-10	4.57051e-10	6.31705e-10	8.64172e-10
0.100000	3.54144e-10	4.74285e-10	6.31829e-10	8.37211e-10	1.10339e-09
0.0100000	3.75778e-10	4.98705e-10	6.59276e-10	8.67941e-10	1.13768e-09

0.00100000	3.78233e-10	5.01521e-10	6.62537e-10	8.71762e-10	1.14222e-09
0.00100000	3.78729e-10	5.02184e-10	6.63425e-10	8.72944e-10	1.14377e-09
1.00000e-05	3.78970e-10	5.02495e-10	6.63816e-10	8.73427e-10	1.14436e-09
1.00000e-06	3.79038e-10	5.02574e-10	6.63906e-10	8.73528e-10	1.14447e-09
1.00000e-07	3.79048e-10	5.02585e-10	6.63918e-10	8.73541e-10	1.14448e-09
1.00000e-08	3.79049e-10	5.02586e-10	6.63919e-10	8.73542e-10	1.14449e-09
1.00000e-09	3.79049e-10	5.02586e-10	6.63919e-10	8.73542e-10	1.14449e-09

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	8.34261e-23	2.63766e-22	7.87321e-22	8.03066e-19	6.01928e-21
1.00000e+07	8.20415e-21	2.58831e-20	7.70735e-20	6.77352e-17	5.85977e-19
1.00000e+06	7.20389e-19	2.23416e-18	6.53489e-18	5.16144e-15	4.78164e-17
100000.	7.15458e-17	1.91554e-16	4.96707e-16	1.47927e-12	3.03600e-15
10000.0	2.34788e-14	4.98132e-14	1.04527e-13	5.60120e-11	4.49003e-13
1000.00	2.34105e-12	4.27556e-12	7.68855e-12	2.52101e-10	2.37726e-11
100.000	5.62338e-11	9.09700e-11	1.45086e-10	8.34139e-10	3.53916e-10
10.0000	4.48723e-10	6.56556e-10	9.47376e-10	2.06646e-09	1.89379e-09
1.00000	1.17056e-09	1.57064e-09	2.08845e-09	2.66730e-09	3.59944e-09
0.100000	1.44635e-09	1.88566e-09	2.44514e-09	2.75465e-09	4.04554e-09
0.0100000	1.48450e-09	1.92803e-09	2.49216e-09	2.76699e-09	4.10364e-09
0.00100000	1.48996e-09	1.93469e-09	2.50036e-09	2.77176e-09	4.11625e-09
0.000100000	1.49199e-09	1.93728e-09	2.50362e-09	2.77355e-09	4.12115e-09
1.00000e-05	1.49268e-09	1.93809e-09	2.50455e-09	2.77388e-09	4.12233e-09
1.00000e-06	1.49281e-09	1.93823e-09	2.50470e-09	2.77392e-09	4.12250e-09
1.00000e-07	1.49282e-09	1.93824e-09	2.50471e-09	2.77392e-09	4.12252e-09
1.00000e-08	1.49282e-09	1.93824e-09	2.50472e-09	2.77392e-09	4.12252e-09
1.00000e-09	1.49282e-09	1.93824e-09	2.50472e-09	2.77392e-09	4.12252e-09

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.53864e-15	1.10447e-10	1.95627e-08	4.77216e-07	3.55542e-06
1.00000e+07	4.40360e-12	1.23599e-07	6.52058e-06	4.02018e-05	9.07209e-05
1.00000e+06	1.58994e-09	4.08223e-06	9.84162e-05	0.000322329	0.000511049
100000.	3.38922e-08	9.85979e-06	0.000143946	0.000457019	0.000723426
10000.0	6.38995e-08	4.99298e-06	6.55751e-05	0.000291054	0.000579691
1000.00	3.64909e-08	1.55325e-06	2.44518e-05	0.000147427	0.000333316
100.000	2.97327e-08	5.55039e-07	7.49254e-06	4.65685e-05	0.000100460
10.0000	2.87779e-08	2.37555e-07	1.74694e-06	8.62636e-06	1.87341e-05
1.00000	2.76576e-08	1.77258e-07	8.24136e-07	2.94019e-06	7.39195e-06
0.100000	2.75277e-08	1.71269e-07	7.35664e-07	2.39787e-06	6.28925e-06
0.0100000	2.75829e-08	1.70940e-07	7.27587e-07	2.34702e-06	6.18397e-06
0.00100000	2.76126e-08	1.70946e-07	7.26818e-07	2.34209e-06	6.17374e-06
0.000100000	2.76187e-08	1.70949e-07	7.26742e-07	2.34160e-06	6.17273e-06
1.00000e-05	2.76195e-08	1.70949e-07	7.26735e-07	2.34155e-06	6.17263e-06
1.00000e-06	2.76195e-08	1.70949e-07	7.26734e-07	2.34155e-06	6.17262e-06
1.00000e-07	2.76196e-08	1.70949e-07	7.26734e-07	2.34155e-06	6.17262e-06
1.00000e-08	2.76196e-08	1.70949e-07	7.26734e-07	2.34155e-06	6.17262e-06
1.00000e-09	2.76196e-08	1.70949e-07	7.26734e-07	2.34155e-06	6.17262e-06

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	1.42451e-05	3.86157e-05	7.69375e-05	0.000106943	0.000115202
1.00000e+07	0.000137615	0.000199669	0.000303220	0.000417672	0.000515774
1.00000e+06	0.000659894	0.000814061	0.00100019	0.00116817	0.00129568
100000.	0.000924957	0.00108775	0.00122220	0.00131827	0.00137300
10000.0	0.000776802	0.000869192	0.000892919	0.000876591	0.000841728
1000.00	0.000418787	0.000408106	0.000366438	0.000332785	0.000325850
100.000	0.000111658	0.000103551	0.000104938	0.000126365	0.000172021
10.0000	2.58615e-05	3.69287e-05	5.86405e-05	9.55686e-05	0.000151958
1.00000	1.51927e-05	2.93835e-05	5.37442e-05	9.24638e-05	0.000150001
0.100000	1.41547e-05	2.86542e-05	5.32742e-05	9.21672e-05	0.000149815
0.0100000	1.40546e-05	2.85837e-05	5.32288e-05	9.21386e-05	0.000149797
0.00100000	1.40449e-05	2.85768e-05	5.32243e-05	9.21358e-05	0.000149795
0.000100000	1.40439e-05	2.85761e-05	5.32239e-05	9.21355e-05	0.000149795
1.00000e-05	1.40438e-05	2.85761e-05	5.32238e-05	9.21355e-05	0.000149795
1.00000e-06	1.40438e-05	2.85761e-05	5.32238e-05	9.21355e-05	0.000149795
1.00000e-07	1.40438e-05	2.85761e-05	5.32238e-05	9.21355e-05	0.000149795
1.00000e-08	1.40438e-05	2.85761e-05	5.32238e-05	9.21355e-05	0.000149795
1.00000e-09	1.40438e-05	2.85761e-05	5.32238e-05	9.21355e-05	0.000149795

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.000112586	0.000109019	0.000212180	0.000242344	0.000258556
1.00000e+07	0.000598366	0.000662602	0.00323832	0.00346264	0.00334312
1.00000e+06	0.00139606	0.00146831	0.00289044	0.00298574	0.00293623
100000.	0.00139878	0.00140769	0.00209155	0.00219850	0.00229844
10000.0	0.000810161	0.000801144	0.00115450	0.00143412	0.00178530
1000.00	0.000354578	0.000422471	0.000749938	0.00119873	0.00166474
100.000	0.000244727	0.000346565	0.000685412	0.00116770	0.00165069

10.0000	0.000231826	0.000338365	0.000678646	0.00116461	0.00164933
1.00000	0.000230597	0.000337599	0.000677987	0.00116431	0.00164920
0.100000	0.000230480	0.000337526	0.000677922	0.00116428	0.00164918
0.0100000	0.000230469	0.000337519	0.000677916	0.00116428	0.00164918
0.00100000	0.000230468	0.000337518	0.000677915	0.00116428	0.00164918
0.000100000	0.000230468	0.000337518	0.000677915	0.00116428	0.00164918
1.00000e-05	0.000230468	0.000337518	0.000677915	0.00116428	0.00164918
1.00000e-06	0.000230468	0.000337518	0.000677915	0.00116428	0.00164918
1.00000e-07	0.000230468	0.000337518	0.000677915	0.00116428	0.00164918
1.00000e-08	0.000230468	0.000337518	0.000677915	0.00116428	0.00164918
1.00000e-09	0.000230468	0.000337518	0.000677915	0.00116428	0.00164918

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00261592	0.00253791	0.00239159	0.00221866	0.00204750
1.00000e+07	0.00304800	0.00274155	0.00248096	0.00226886	0.00209260
1.00000e+06	0.00273474	0.00254446	0.00239025	0.00225311	0.00211839
100000.	0.00232187	0.00233603	0.00231333	0.00224183	0.00213206
10000.0	0.00206770	0.00223504	0.00228115	0.00223549	0.00213367
1000.00	0.00202105	0.00222001	0.00227727	0.00223507	0.00213410
100.000	0.00201615	0.00221858	0.00227696	0.00223508	0.00213418
10.0000	0.00201569	0.00221845	0.00227694	0.00223508	0.00213418
1.00000	0.00201564	0.00221844	0.00227694	0.00223508	0.00213419
0.100000	0.00201564	0.00221844	0.00227694	0.00223508	0.00213419
0.0100000	0.00201564	0.00221844	0.00227694	0.00223508	0.00213419
0.00100000	0.00201564	0.00221844	0.00227694	0.00223508	0.00213419
0.000100000	0.00201564	0.00221844	0.00227694	0.00223508	0.00213419
1.00000e-05	0.00201564	0.00221844	0.00227694	0.00223508	0.00213419
1.00000e-06	0.00201564	0.00221844	0.00227694	0.00223508	0.00213419
1.00000e-07	0.00201564	0.00221844	0.00227694	0.00223508	0.00213419
1.00000e-08	0.00201564	0.00221844	0.00227694	0.00223508	0.00213419
1.00000e-09	0.00201564	0.00221844	0.00227694	0.00223508	0.00213419

Pa\K	3750.00	4000.00
1.00000e+08	0.00189102	0.00175223
1.00000e+07	0.00193998	0.00180314
1.00000e+06	0.00198189	0.00184561
100000.	0.00200063	0.00186171
10000.0	0.00200373	0.00186437
1000.00	0.00200424	0.00186476
100.000	0.00200430	0.00186481
10.0000	0.00200431	0.00186482
1.00000	0.00200431	0.00186482
0.100000	0.00200431	0.00186482
0.0100000	0.00200431	0.00186482
0.00100000	0.00200431	0.00186482
0.000100000	0.00200431	0.00186482
1.00000e-05	0.00200431	0.00186482
1.00000e-06	0.00200431	0.00186482
1.00000e-07	0.00200431	0.00186482
1.00000e-08	0.00200431	0.00186482
1.00000e-09	0.00200431	0.00186482

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.47758e-13	6.07632e-13	1.37591e-12	2.48146e-12	3.97310e-12
1.00000e+07	1.46899e-11	6.00526e-11	1.35202e-10	2.42454e-10	3.85990e-10
1.00000e+06	1.38648e-09	5.35019e-09	1.14009e-08	1.93818e-08	2.92762e-08
100000.	8.15269e-08	2.00029e-07	2.92665e-07	3.60130e-07	4.09252e-07
10000.0	3.76295e-07	2.53307e-07	1.73248e-07	1.26060e-07	9.65583e-08
1000.00	2.39031e-08	5.52206e-09	2.34938e-09	1.33100e-09	8.95133e-10
100.000	2.88781e-10	2.25259e-10	2.15087e-10	2.06081e-10	1.96854e-10
10.0000	1.37056e-10	8.01526e-11	5.48781e-11	4.24788e-11	3.60602e-11
1.00000	2.61468e-11	2.46398e-11	2.32392e-11	2.18452e-11	2.05784e-11
0.100000	1.49632e-11	9.43330e-12	6.49116e-12	4.66205e-12	3.43927e-12
0.0100000	9.70088e-13	1.61110e-13	4.64099e-14	1.77505e-14	8.08036e-15
0.00100000	5.81969e-16	3.68441e-17	7.72996e-18	2.61949e-18	1.15256e-18
0.000100000	1.07445e-19	1.88903e-20	9.79705e-21	6.80011e-21	5.33174e-21
1.00000e-05	2.38693e-21	1.16467e-21	7.83937e-22	5.99112e-22	4.91465e-22
1.00000e-06	2.32696e-22	1.15447e-22	7.79973e-23	5.97045e-23	4.90216e-23
1.00000e-07	2.32430e-23	1.15401e-23	7.79849e-24	5.97019e-24	4.90224e-24
1.00000e-08	2.32442e-24	1.15401e-24	7.79812e-25	5.96970e-25	4.90172e-25
1.00000e-09	2.32418e-25	1.15391e-25	7.79757e-26	5.96935e-26	4.90147e-26

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	5.92123e-12	8.42429e-12	1.16177e-11	1.56866e-11	2.08830e-11

1.00000e+07	5.71934e-10	8.08884e-10	1.10864e-09	1.48723e-09	1.96626e-09
1.00000e+06	4.11674e-08	5.52344e-08	7.17518e-08	9.10948e-08	1.13748e-07
100000.	4.45844e-07	4.74125e-07	4.97041e-07	5.16644e-07	5.34375e-07
10000.0	7.69883e-08	6.33581e-08	5.34823e-08	4.60914e-08	4.04085e-08
1000.00	6.75520e-10	5.53135e-10	4.80494e-10	4.35794e-10	4.07939e-10
100.000	1.87732e-10	1.78924e-10	1.70503e-10	1.62478e-10	1.54829e-10
10.0000	3.26695e-11	3.09040e-11	3.00472e-11	2.97120e-11	2.96793e-11
1.00000	1.94404e-11	1.84079e-11	1.74568e-11	1.65665e-11	1.57210e-11
0.100000	2.58516e-12	1.97018e-12	1.51732e-12	1.17805e-12	9.20431e-13
0.0100000	4.13859e-15	2.30731e-15	1.37087e-15	8.55627e-16	5.55347e-16
0.00100000	5.99112e-19	3.50271e-19	2.23828e-19	1.53528e-19	1.11666e-19
0.000100000	4.46671e-21	3.90175e-21	3.50831e-21	3.22260e-21	3.00947e-21
1.00000e-05	4.22053e-22	3.74263e-22	3.39855e-22	3.14311e-22	2.94966e-22
1.00000e-06	4.21229e-23	3.73688e-23	3.39440e-23	3.14005e-23	2.94737e-23
1.00000e-07	4.21248e-24	3.73709e-24	3.39458e-24	3.14018e-24	2.94744e-24
1.00000e-08	4.21197e-25	3.73661e-25	3.39412e-25	3.13975e-25	2.94704e-25
1.00000e-09	4.21178e-26	3.73646e-26	3.39400e-26	3.13965e-26	2.94695e-26

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.75506e-11	3.61578e-11	4.73437e-11	6.19809e-11	8.12604e-11
1.00000e+07	2.57482e-09	3.35201e-09	4.35024e-09	5.63969e-09	7.31399e-09
1.00000e+06	1.40313e-07	1.71524e-07	2.08255e-07	2.51529e-07	3.02522e-07
100000.	5.51267e-07	5.68066e-07	5.85319e-07	6.03425e-07	6.22673e-07
10000.0	3.59375e-08	3.23493e-08	2.94188e-08	2.69877e-08	2.49422e-08
1000.00	3.90814e-10	3.80824e-10	3.75734e-10	3.74089e-10	3.74892e-10
100.000	1.47533e-10	1.40567e-10	1.33915e-10	1.27571e-10	1.21538e-10
10.0000	2.98205e-11	3.00575e-11	3.03412e-11	3.06399e-11	3.09325e-11
1.00000	1.49078e-11	1.41175e-11	1.33434e-11	1.25807e-11	1.18270e-11
0.100000	7.22710e-13	5.69669e-13	4.50406e-13	3.56964e-13	2.83440e-13
0.0100000	3.72064e-16	2.55879e-16	1.79881e-16	1.28843e-16	9.37941e-17
0.00100000	8.53695e-20	6.81388e-20	5.64697e-20	4.83665e-20	4.26410e-20
0.000100000	2.84800e-21	2.72509e-21	2.63219e-21	2.56358e-21	2.51544e-21
1.00000e-05	2.80161e-22	2.68816e-22	2.60214e-22	2.53864e-22	2.49436e-22
1.00000e-06	2.79988e-23	2.68687e-23	2.60117e-23	2.53792e-23	2.49383e-23
1.00000e-07	2.79988e-24	2.68680e-24	2.60104e-24	2.53773e-24	2.49358e-24
1.00000e-08	2.79950e-25	2.68644e-25	2.60070e-25	2.53741e-25	2.49327e-25
1.00000e-09	2.79943e-26	2.68638e-26	2.60064e-26	2.53736e-26	2.49323e-26

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.06809e-10	1.40846e-10	1.86402e-10	2.47603e-10	3.30066e-10
1.00000e+07	9.49782e-09	1.23566e-08	1.61088e-08	2.10418e-08	2.75317e-08
1.00000e+06	3.62573e-07	4.33174e-07	5.15971e-07	6.12756e-07	7.25451e-07
100000.	6.43258e-07	6.65304e-07	6.88865e-07	7.13937e-07	7.40460e-07
10000.0	2.31988e-08	2.16953e-08	2.03846e-08	1.92308e-08	1.82062e-08
1000.00	3.77432e-10	3.81181e-10	3.85727e-10	3.90739e-10	3.95939e-10
100.000	1.15826e-10	1.10453e-10	1.05441e-10	1.00812e-10	9.65916e-11
10.0000	3.12041e-11	3.14441e-11	3.16442e-11	3.17977e-11	3.18989e-11
1.00000	1.10812e-11	1.03441e-11	9.61732e-12	8.90374e-12	8.20674e-12
0.100000	2.25395e-13	1.79453e-13	1.43018e-13	1.14081e-13	9.10737e-14
0.0100000	6.92636e-17	5.18123e-17	3.92218e-17	3.00278e-17	2.32440e-17
0.00100000	3.85591e-20	3.56539e-20	3.36214e-20	3.22614e-20	3.14420e-20
0.000100000	2.48520e-21	2.47128e-21	2.47277e-21	2.48940e-21	2.52141e-21
1.00000e-05	2.46707e-22	2.45540e-22	2.45861e-22	2.47652e-22	2.50942e-22
1.00000e-06	2.46668e-23	2.45510e-23	2.45838e-23	2.47631e-23	2.50920e-23
1.00000e-07	2.46637e-24	2.45475e-24	2.45797e-24	2.47586e-24	2.50870e-24
1.00000e-08	2.46609e-25	2.45447e-25	2.45771e-25	2.47560e-25	2.50846e-25
1.00000e-09	2.46604e-26	2.45443e-26	2.45767e-26	2.47557e-26	2.50843e-26

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	4.41417e-10	5.91989e-10	7.95741e-10	1.07147e-09	1.44441e-09
1.00000e+07	3.60670e-08	4.72791e-08	6.19770e-08	8.11898e-08	1.06215e-07
1.00000e+06	8.56093e-07	1.00682e-06	1.17983e-06	1.37740e-06	1.60182e-06
100000.	7.68324e-07	7.97372e-07	8.27405e-07	8.58191e-07	8.89470e-07
10000.0	1.72891e-08	1.64628e-08	1.57139e-08	1.50322e-08	1.44094e-08
1000.00	4.01093e-10	4.05996e-10	4.10467e-10	4.14352e-10	4.17518e-10
100.000	9.27988e-11	8.94501e-11	8.65555e-11	8.41182e-11	8.21339e-11
10.0000	3.19427e-11	3.19244e-11	3.18400e-11	3.16857e-11	3.14585e-11
1.00000	7.53010e-12	6.87767e-12	6.25313e-12	5.65977e-12	5.10031e-12
0.100000	7.27670e-14	5.81928e-14	4.65857e-14	3.73396e-14	2.99728e-14
0.0100000	1.81943e-17	1.44082e-17	1.15533e-17	9.39265e-18	7.75533e-18
0.00100000	3.10779e-20	3.11179e-20	3.15365e-20	3.23298e-20	3.35136e-20
0.000100000	2.56952e-21	2.63496e-21	2.71951e-21	2.82556e-21	2.95621e-21
1.00000e-05	2.55807e-22	2.62372e-22	2.70811e-22	2.81358e-22	2.94316e-22
1.00000e-06	2.55782e-23	2.62340e-23	2.70769e-23	2.81302e-23	2.94239e-23
1.00000e-07	2.55728e-24	2.62281e-24	2.70706e-24	2.81233e-24	2.94166e-24
1.00000e-08	2.55704e-25	2.62258e-25	2.70683e-25	2.81211e-25	2.94143e-25
1.00000e-09	2.55701e-26	2.62255e-26	2.70680e-26	2.81208e-26	2.94141e-26

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	1.94829e-09	2.62801e-09	3.54311e-09	1.96244e-08	6.41841e-09
1.00000e+07	1.38674e-07	1.80574e-07	2.34377e-07	8.66554e-07	3.90236e-07
1.00000e+06	1.85537e-06	2.14032e-06	2.45888e-06	4.43559e-06	3.20532e-06
100000.	9.20965e-07	9.52390e-07	9.83462e-07	1.33274e-06	1.04349e-06
10000.0	1.38392e-08	1.33164e-08	1.28370e-08	3.87220e-08	1.19968e-08
1000.00	4.19854e-10	4.21278e-10	4.21736e-10	7.48031e-10	4.19689e-10
100.000	8.05914e-11	7.94732e-11	7.87560e-11	1.01294e-10	7.84114e-11
10.0000	3.11562e-11	3.07777e-11	3.03232e-11	3.49725e-11	2.91940e-11
1.00000	4.57685e-12	4.09074e-12	3.64264e-12	3.75087e-12	2.85975e-12
0.100000	2.41028e-14	1.94251e-14	1.56972e-14	3.69869e-14	1.03587e-14
0.0100000	6.51737e-18	5.58847e-18	4.90300e-18	2.55131e-16	4.08716e-18
0.00100000	3.51234e-20	3.72164e-20	3.98753e-20	1.78024e-17	4.73879e-20
0.000100000	3.11544e-21	3.30836e-21	3.54143e-21	1.74140e-18	4.16336e-21
1.00000e-05	3.10069e-22	3.29105e-22	3.52042e-22	1.73813e-19	4.12953e-22
1.00000e-06	3.09966e-23	3.28966e-23	3.51855e-23	1.73792e-20	4.12611e-23
1.00000e-07	3.09886e-24	3.28879e-24	3.51759e-24	1.73780e-21	4.12491e-24
1.00000e-08	3.09863e-25	3.28857e-25	3.51736e-25	1.73776e-22	4.12466e-25
1.00000e-09	3.09861e-26	3.28854e-26	3.51733e-26	1.73776e-23	4.12463e-26

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	3.15157e-07	3.90588e-06	3.82945e-05	0.000272840	0.000841460
1.00000e+07	6.69329e-06	3.45671e-05	0.000140931	0.000448388	0.000890828
1.00000e+06	1.29856e-05	3.18072e-05	7.61667e-05	0.000178777	0.000345078
100000.	1.95215e-06	3.16740e-06	6.85117e-06	1.88937e-05	4.77781e-05
10000.0	4.15400e-08	6.92514e-08	2.16514e-07	1.01207e-06	3.81254e-06
1000.00	7.88090e-10	1.54081e-09	8.06324e-09	6.39980e-08	3.26569e-07
100.000	1.35269e-10	2.19984e-10	7.99094e-10	6.35159e-09	3.53731e-08
10.0000	3.09837e-11	3.28028e-11	9.03274e-11	6.82544e-10	3.78992e-09
1.00000	1.62179e-12	1.57866e-12	7.05474e-12	6.66730e-11	3.82756e-10
0.100000	1.90722e-14	6.19224e-14	5.94181e-13	6.56884e-12	3.83471e-11
0.0100000	6.82783e-16	4.63829e-15	5.67874e-14	6.55121e-13	3.83683e-12
0.00100000	5.78116e-17	4.32961e-16	5.62086e-15	6.54811e-14	3.83701e-13
0.000100000	5.61668e-18	4.26361e-17	5.60859e-16	6.54717e-15	3.83696e-14
1.00000e-05	5.59333e-19	4.25313e-18	5.60650e-17	6.54694e-16	3.83695e-15
1.00000e-06	5.59052e-20	4.25181e-19	5.60620e-18	6.54690e-17	3.83694e-16
1.00000e-07	5.59003e-21	4.25163e-20	5.60616e-19	6.54690e-18	3.83694e-17
1.00000e-08	5.58995e-22	4.25161e-21	5.60616e-20	6.54690e-19	3.83694e-18
1.00000e-09	5.58994e-23	4.25160e-22	5.60616e-21	6.54690e-20	3.83694e-19

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	0.00123911	0.00180245	0.00263859	0.00307254	0.00311221
1.00000e+07	0.00104759	0.00102051	0.00120777	0.00145968	0.00160666
1.00000e+06	0.000433493	0.000412540	0.000405067	0.000417925	0.000420940
100000.	7.23306e-05	7.33907e-05	6.75864e-05	6.32361e-05	5.88254e-05
10000.0	7.20376e-06	8.22669e-06	7.86364e-06	7.32276e-06	6.72537e-06
1000.00	7.39102e-07	9.30112e-07	9.07826e-07	8.32225e-07	7.47886e-07
100.000	8.37981e-08	1.04849e-07	9.91224e-08	8.81671e-08	7.76469e-08
10.0000	8.84029e-09	1.08627e-08	1.01175e-08	8.91712e-09	7.81565e-09
1.00000	8.92943e-10	1.09298e-09	1.01498e-09	8.93153e-10	7.82269e-10
0.100000	8.94689e-11	1.09402e-10	1.01539e-10	8.93314e-11	7.82343e-11
0.0100000	8.94949e-12	1.09413e-11	1.01542e-11	8.93325e-12	7.82347e-12
0.00100000	8.94963e-13	1.09413e-12	1.01542e-12	8.93325e-13	7.82347e-13
0.000100000	8.94961e-14	1.09413e-13	1.01542e-13	8.93325e-14	7.82347e-14
1.00000e-05	8.94960e-15	1.09413e-14	1.01542e-14	8.93325e-15	7.82347e-15
1.00000e-06	8.94960e-16	1.09413e-15	1.01542e-15	8.93325e-16	7.82347e-16
1.00000e-07	8.94960e-17	1.09413e-16	1.01542e-16	8.93325e-17	7.82347e-17
1.00000e-08	8.94960e-18	1.09413e-17	1.01542e-17	8.93325e-18	7.82347e-18
1.00000e-09	8.94960e-19	1.09413e-18	1.01542e-18	8.93325e-19	7.82347e-19

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00308289	0.00308545	0.000336618	0.000364088	0.000385278
1.00000e+07	0.00167631	0.00170503	0.000177448	0.000172990	0.000151895
1.00000e+06	0.000410013	0.000389058	4.83682e-05	3.69657e-05	2.69263e-05
100000.	5.38593e-05	4.86623e-05	7.13087e-06	5.27995e-06	3.77870e-06
10000.0	6.08585e-06	5.44006e-06	9.30079e-07	6.63261e-07	4.50737e-07
1000.00	6.63377e-07	5.82629e-07	1.02695e-07	7.04209e-08	4.66110e-08
100.000	6.80035e-08	5.92348e-08	1.04503e-08	7.10001e-09	4.67811e-09
10.0000	6.82808e-09	5.93932e-09	1.04754e-09	7.10669e-10	4.67978e-10
1.00000	6.83195e-10	5.94160e-10	1.04785e-10	7.10741e-11	4.67994e-11
0.100000	6.83235e-11	5.94184e-11	1.04788e-11	7.10747e-12	4.67996e-12
0.0100000	6.83237e-12	5.94185e-12	1.04788e-12	7.10748e-13	4.67996e-13
0.00100000	6.83237e-13	5.94185e-13	1.04788e-13	7.10748e-14	4.67996e-14
0.000100000	6.83237e-14	5.94185e-14	1.04788e-14	7.10748e-15	4.67996e-15
1.00000e-05	6.83237e-15	5.94185e-15	1.04788e-15	7.10748e-16	4.67996e-16

1.00000e-06	6.83237e-16	5.94185e-16	1.04788e-16	7.10748e-17	4.67996e-17
1.00000e-07	6.83237e-17	5.94185e-17	1.04788e-17	7.10748e-18	4.67996e-18
1.00000e-08	6.83237e-18	5.94185e-18	1.04788e-18	7.10748e-19	4.67996e-19
1.00000e-09	6.83237e-19	5.94185e-19	1.04788e-19	7.10748e-20	4.67996e-20

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.000388667	0.000370009	0.000333202	0.000286896	0.000239425
1.00000e+07	0.000121942	9.21336e-05	6.74506e-05	4.88793e-05	3.55026e-05
1.00000e+06	1.90761e-05	1.33037e-05	9.21014e-06	6.36807e-06	4.41766e-06
100000.	2.60324e-06	1.73710e-06	1.14024e-06	7.47039e-07	4.93546e-07
10000.0	2.94365e-07	1.88042e-07	1.19587e-07	7.66692e-08	4.99300e-08
1000.00	2.99476e-08	1.89557e-08	1.19939e-08	7.66769e-09	4.98551e-09
100.000	2.99917e-09	1.89642e-09	1.19933e-09	7.66540e-10	4.98337e-10
10.0000	2.99954e-10	1.89647e-10	1.19931e-10	7.66507e-11	4.98311e-11
1.00000	2.99957e-11	1.89647e-11	1.19931e-11	7.66503e-12	4.98308e-12
0.100000	2.99957e-12	1.89647e-12	1.19931e-12	7.66503e-13	4.98307e-13
0.0100000	2.99957e-13	1.89647e-13	1.19931e-13	7.66503e-14	4.98307e-14
0.00100000	2.99957e-14	1.89647e-14	1.19931e-14	7.66503e-15	4.98307e-15
0.000100000	2.99957e-15	1.89647e-15	1.19931e-15	7.66503e-16	4.98307e-16
1.00000e-05	2.99957e-16	1.89647e-16	1.19931e-16	7.66503e-17	4.98307e-17
1.00000e-06	2.99957e-17	1.89647e-17	1.19931e-17	7.66503e-18	4.98307e-18
1.00000e-07	2.99957e-18	1.89647e-18	1.19931e-18	7.66503e-19	4.98307e-19
1.00000e-08	2.99957e-19	1.89647e-19	1.19931e-19	7.66503e-20	4.98307e-20
1.00000e-09	2.99957e-20	1.89647e-20	1.19931e-20	7.66503e-21	4.98307e-21

Pa\K	3750.00	4000.00
1.00000e+08	0.000196085	0.000159119
1.00000e+07	2.60043e-05	1.92573e-05
1.00000e+06	3.08643e-06	2.17879e-06
100000.	3.30929e-07	2.26043e-07
10000.0	3.31666e-08	2.25183e-08
1000.00	3.30867e-09	2.24527e-09
100.000	3.30704e-10	2.24410e-10
10.0000	3.30685e-11	2.24396e-11
1.00000	3.30683e-12	2.24395e-12
0.100000	3.30683e-13	2.24395e-13
0.0100000	3.30683e-14	2.24395e-14
0.00100000	3.30683e-15	2.24395e-15
0.000100000	3.30683e-16	2.24395e-16
1.00000e-05	3.30683e-17	2.24395e-17
1.00000e-06	3.30683e-18	2.24395e-18
1.00000e-07	3.30683e-19	2.24395e-19
1.00000e-08	3.30683e-20	2.24395e-20
1.00000e-09	3.30683e-21	2.24395e-21

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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	100.000	110.000
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 | 120.000 130.000 140.000 150.000 160.000

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 | 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 | 270.000 280.000 290.000 300.000 310.000

1.00000e+08	N/A	N/A	N/A	1.22117e-30	N/A
1.00000e+07	N/A	N/A	N/A	3.75362e-27	N/A
1.00000e+06	N/A	N/A	N/A	8.90211e-25	N/A
100000.	N/A	N/A	N/A	2.94009e-24	N/A

10000.0	N/A	N/A	N/A	2.22133e-26	N/A
1000.00	N/A	N/A	N/A	7.54933e-31	N/A
100.000	N/A	N/A	N/A	2.16888e-34	N/A
10.0000	N/A	N/A	N/A	4.91049e-36	N/A
1.00000	N/A	N/A	N/A	4.02796e-37	N/A
0.100000	N/A	N/A	N/A	3.97095e-38	N/A
0.0100000	N/A	N/A	N/A	3.99445e-39	N/A
0.00100000	N/A	N/A	N/A	4.02619e-40	N/A
0.000100000	N/A	N/A	N/A	4.04731e-41	N/A
1.00000e-05	N/A	N/A	N/A	4.05556e-42	N/A
1.00000e-06	N/A	N/A	N/A	4.05733e-43	N/A
1.00000e-07	N/A	N/A	N/A	4.05751e-44	N/A
1.00000e-08	N/A	N/A	N/A	4.05751e-45	N/A
1.00000e-09	N/A	N/A	N/A	4.05751e-46	N/A

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	4.40252e-19	1.15205e-13	1.38174e-11	2.48106e-10	1.11742e-09
1.00000e+07	4.68709e-16	7.32989e-11	4.05207e-09	2.30875e-08	5.24758e-08
1.00000e+06	9.53137e-15	1.00961e-09	5.48963e-08	2.10190e-07	3.60929e-07
100000.	1.42038e-15	1.30962e-10	3.13196e-08	2.14096e-07	4.30805e-07
10000.0	3.63928e-18	1.62409e-12	3.92757e-09	7.94814e-08	2.51645e-07
1000.00	4.07160e-21	5.54922e-14	8.60714e-10	3.22223e-08	1.25784e-07
100.000	9.01419e-23	7.63443e-15	2.24292e-10	9.49609e-09	3.53165e-08
10.0000	9.65126e-24	1.14980e-15	3.36549e-11	1.34609e-09	4.69383e-09
1.00000	1.06823e-24	1.22808e-16	3.24556e-12	1.28107e-10	4.56555e-10
0.100000	1.08211e-25	1.21459e-17	3.08177e-13	1.20646e-11	4.37426e-11
0.0100000	1.08554e-26	1.21385e-18	3.03377e-14	1.17118e-12	4.26054e-12
0.00100000	1.08757e-27	1.21469e-19	3.01613e-15	1.15301e-13	4.19388e-13
0.000100000	1.08840e-28	1.21496e-20	3.00795e-16	1.14334e-14	4.15692e-14
1.00000e-05	1.08869e-29	1.21500e-21	3.00517e-17	1.13998e-15	4.15613e-15
1.00000e-06	1.08966e-30	1.21504e-22	3.00456e-18	1.13981e-16	4.28259e-16
1.00000e-07	1.09917e-31	1.21547e-23	3.00507e-19	1.14620e-17	5.58088e-17
1.00000e-08	1.19421e-32	1.21981e-24	3.01148e-20	1.21038e-18	1.85614e-17
1.00000e-09	2.14460e-33	1.26322e-25	3.07631e-21	1.85999e-19	1.48472e-17

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	2.12873e-09	2.97512e-09	3.83482e-09	4.39576e-09	4.72657e-09
1.00000e+07	8.01079e-08	1.08644e-07	1.47420e-07	1.84617e-07	2.12644e-07
1.00000e+06	4.91400e-07	6.15134e-07	7.44312e-07	8.51149e-07	9.23734e-07
100000.	6.05746e-07	7.35145e-07	8.26011e-07	8.81354e-07	9.00727e-07
10000.0	4.02071e-07	4.76910e-07	4.93069e-07	4.72326e-07	4.27859e-07
1000.00	1.95032e-07	1.99824e-07	1.71665e-07	1.35372e-07	1.01643e-07
100.000	4.62129e-08	3.88854e-08	2.79385e-08	1.89875e-08	1.27044e-08
10.0000	5.58770e-09	4.32862e-09	2.92529e-09	1.90976e-09	1.28056e-09
1.00000	5.44063e-10	4.18991e-10	2.81875e-10	1.88227e-10	1.64572e-10
0.100000	5.25519e-11	4.05914e-11	2.77733e-11	2.35171e-11	5.80510e-11
0.0100000	5.13619e-12	3.99958e-12	3.18721e-12	7.57134e-12	4.77289e-11
0.00100000	5.07110e-13	4.21282e-13	7.80733e-13	6.00924e-12	4.67168e-11
0.000100000	5.11433e-14	6.84715e-14	5.43308e-13	5.85504e-12	4.66168e-11
1.00000e-05	5.96383e-15	3.34927e-14	5.19759e-13	5.83974e-12	4.66069e-11
1.00000e-06	1.46078e-15	3.00053e-14	5.17410e-13	5.83821e-12	4.66059e-11
1.00000e-07	1.01083e-15	2.96567e-14	5.17175e-13	5.83806e-12	4.66058e-11
1.00000e-08	9.65836e-16	2.96219e-14	5.17152e-13	5.83804e-12	4.66058e-11
1.00000e-09	9.61349e-16	2.96184e-14	5.17150e-13	5.83804e-12	4.66058e-11

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	5.10162e-09	5.54372e-09	0.000539067	0.000626716	0.000710360
1.00000e+07	2.35663e-07	2.55274e-07	0.00197785	0.00217431	0.00218786
1.00000e+06	9.68890e-07	9.90705e-07	0.00295752	0.00268850	0.00224543
100000.	8.88589e-07	8.51064e-07	0.00203283	0.00145279	0.000961402
10000.0	3.70431e-07	3.09519e-07	0.000645072	0.000337094	0.000174163
1000.00	7.42128e-08	5.40887e-08	9.50893e-05	4.16850e-05	2.06861e-05
100.000	8.69208e-09	6.92535e-09	9.99572e-06	4.47622e-06	3.58578e-06
10.0000	1.08508e-09	1.84460e-09	1.01392e-06	7.29519e-07	1.90157e-06
1.00000	3.56644e-10	1.36384e-09	1.29679e-07	3.61969e-07	1.73663e-06
0.100000	2.87155e-10	1.31795e-09	4.25857e-08	3.25735e-07	1.72038e-06
0.0100000	2.80414e-10	1.31350e-09	3.39602e-08	3.22145e-07	1.71876e-06
0.00100000	2.79752e-10	1.31306e-09	3.31029e-08	3.21788e-07	1.71860e-06
0.000100000	2.79687e-10	1.31302e-09	3.30175e-08	3.21752e-07	1.71859e-06
1.00000e-05	2.79681e-10	1.31301e-09	3.30090e-08	3.21749e-07	1.71859e-06
1.00000e-06	2.79680e-10	1.31301e-09	3.30081e-08	3.21748e-07	1.71859e-06
1.00000e-07	2.79680e-10	1.31301e-09	3.30080e-08	3.21748e-07	1.71859e-06
1.00000e-08	2.79680e-10	1.31301e-09	3.30080e-08	3.21748e-07	1.71859e-06
1.00000e-09	2.79680e-10	1.31301e-09	3.30080e-08	3.21748e-07	1.71859e-06

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
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1.00000e+08	0.000768611	0.000787252	0.000764668	0.000711080	0.000640962
1.00000e+07	0.00200803	0.00171328	0.00139351	0.00110441	0.000867456
1.00000e+06	0.00171279	0.00121963	0.000837229	0.000573582	0.000407701
100000.	0.000577447	0.000332989	0.000202160	0.000144257	0.000128598
10000.0	8.94711e-05	5.49054e-05	4.97372e-05	6.17010e-05	8.38206e-05
1000.00	1.45339e-05	1.90030e-05	3.22883e-05	5.29967e-05	7.93621e-05
100.000	6.78620e-06	1.54464e-05	3.06005e-05	5.21665e-05	7.89408e-05
10.0000	6.03167e-06	1.51019e-05	3.04375e-05	5.20864e-05	7.89002e-05
1.00000	5.95784e-06	1.50682e-05	3.04216e-05	5.20786e-05	7.88963e-05
0.100000	5.95056e-06	1.50649e-05	3.04200e-05	5.20778e-05	7.88959e-05
0.0100000	5.94984e-06	1.50645e-05	3.04198e-05	5.20777e-05	7.88958e-05
0.00100000	5.94977e-06	1.50645e-05	3.04198e-05	5.20777e-05	7.88958e-05
0.000100000	5.94976e-06	1.50645e-05	3.04198e-05	5.20777e-05	7.88958e-05
1.00000e-05	5.94976e-06	1.50645e-05	3.04198e-05	5.20777e-05	7.88958e-05
1.00000e-06	5.94976e-06	1.50645e-05	3.04198e-05	5.20777e-05	7.88958e-05
1.00000e-07	5.94976e-06	1.50645e-05	3.04198e-05	5.20777e-05	7.88958e-05
1.00000e-08	5.94976e-06	1.50645e-05	3.04198e-05	5.20777e-05	7.88958e-05
1.00000e-09	5.94976e-06	1.50645e-05	3.04198e-05	5.20777e-05	7.88958e-05

Pa\K	3750.00	4000.00
1.00000e+08	0.000566562	0.000495680
1.00000e+07	0.000684397	0.000548668
1.00000e+06	0.000312356	0.000263788
100000.	0.000135991	0.000155040
10000.0	0.000111587	0.000141736
1000.00	0.000109257	0.000140510
100.000	0.000109039	0.000140396
10.0000	0.000109018	0.000140385
1.00000	0.000109016	0.000140384
0.100000	0.000109016	0.000140384
0.0100000	0.000109016	0.000140384
0.00100000	0.000109016	0.000140384
0.000100000	0.000109016	0.000140384
1.00000e-05	0.000109016	0.000140384
1.00000e-06	0.000109016	0.000140384
1.00000e-07	0.000109016	0.000140384
1.00000e-08	0.000109016	0.000140384
1.00000e-09	0.000109016	0.000140384

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	3.73627e-69	1.81947e-67	3.19758e-66	4.68500e-65	7.00722e-64
1.00000e+07	2.12762e-64	7.32425e-63	1.01223e-61	1.22837e-60	1.56545e-59
1.00000e+06	3.01088e-60	6.24057e-59	6.39609e-58	6.27176e-57	6.79867e-56
100000.	6.86665e-57	7.43254e-56	5.26293e-55	4.06193e-54	3.78529e-53
10000.0	1.41277e-54	6.50425e-54	3.02973e-53	1.95346e-52	1.79363e-51
1000.00	1.54540e-53	3.81597e-53	1.49761e-52	9.41941e-52	8.91644e-51
100.000	5.42678e-53	1.54302e-52	4.70195e-52	1.80694e-51	9.17180e-51
10.0000	2.58661e-52	3.31056e-52	5.09058e-52	1.03719e-51	2.82447e-51
1.00000	1.33338e-53	1.20307e-54	4.04771e-55	3.81235e-55	8.76488e-55
0.100000	3.67662e-56	9.33878e-56	2.51469e-55	8.15352e-55	3.33011e-54
0.0100000	1.56153e-55	1.98049e-55	3.06789e-55	6.30487e-55	1.75080e-54
0.00100000	1.51182e-56	3.20403e-57	1.89791e-57	2.13473e-57	3.93439e-57
0.000100000	9.76214e-60	1.19159e-60	6.46252e-61	7.40827e-61	1.44332e-60
1.00000e-05	4.43412e-63	8.15054e-64	5.76528e-64	8.06044e-64	1.85738e-63
1.00000e-06	8.86214e-66	2.60690e-66	2.40698e-66	4.11325e-66	1.17227e-65
1.00000e-07	7.71767e-68	3.48154e-68	4.18523e-68	9.06328e-68	3.53385e-67
1.00000e-08	2.52803e-69	1.63634e-69	2.40680e-69	6.09385e-69	2.77036e-68
1.00000e-09	1.97601e-70	1.43901e-70	2.21991e-70	5.78778e-70	2.69301e-69

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	1.18543e-62	2.51326e-61	7.62577e-60	3.77703e-58	3.15573e-56
1.00000e+07	2.29616e-58	4.27736e-57	1.15769e-55	5.23073e-54	4.10961e-52
1.00000e+06	8.81583e-55	1.50181e-53	3.83552e-52	1.67617e-50	1.28815e-48
100000.	4.53422e-52	7.58826e-51	1.98948e-49	9.00706e-48	6.95988e-46
10000.0	2.36915e-50	4.63854e-49	1.41656e-47	6.95775e-46	5.25431e-44
1000.00	1.23185e-49	2.47576e-48	7.37723e-47	3.30663e-45	2.18485e-43
100.000	6.48632e-50	6.89251e-49	1.22515e-47	4.13310e-46	2.88334e-44
10.0000	1.07445e-50	6.39652e-50	7.46279e-49	2.24884e-47	1.94260e-45
1.00000	4.06671e-54	3.66861e-53	7.85709e-52	4.62614e-50	8.09927e-48
0.100000	1.88110e-53	1.76816e-52	3.65655e-51	1.86510e-49	2.15765e-47
0.0100000	7.09327e-54	4.98856e-53	8.00046e-52	3.28540e-50	3.24389e-48
0.00100000	1.18983e-56	6.76986e-56	9.54517e-55	4.07719e-53	6.59202e-51
0.000100000	4.70565e-60	3.03901e-59	7.37444e-58	1.53648e-55	1.42155e-52
1.00000e-05	7.38529e-63	9.24323e-62	1.64459e-59	1.04988e-56	1.26786e-53
1.00000e-06	7.58242e-65	3.64708e-63	1.43426e-60	1.01836e-57	1.25497e-54

1.00000e-07	4.06214e-66	3.27471e-64	1.41592e-61	1.01534e-58	1.25371e-55
1.00000e-08	3.73270e-67	3.23883e-65	1.41411e-62	1.01504e-59	1.25358e-56
1.00000e-09	3.69970e-68	3.23524e-66	1.41393e-63	1.01501e-60	1.25357e-57

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	3.55925e-54	4.38385e-52	4.68922e-50	4.58623e-48	3.24124e-46
1.00000e+07	4.45039e-50	5.35517e-48	5.63994e-46	5.60803e-44	4.04285e-42
1.00000e+06	1.36492e-46	1.60499e-44	1.65128e-42	1.61360e-40	1.14989e-38
100000.	7.19657e-44	8.08996e-42	7.91903e-40	7.25699e-38	4.91183e-36
10000.0	5.00302e-42	5.04892e-40	4.46436e-38	3.64110e-36	2.25575e-34
1000.00	1.84746e-41	1.74049e-39	1.50984e-37	1.31849e-35	9.16665e-34
100.000	3.15898e-42	4.39417e-40	5.64762e-38	8.98339e-36	1.08843e-33
10.0000	2.83336e-43	5.72838e-41	1.07683e-38	3.12552e-36	6.84562e-34
1.00000	2.41955e-45	1.08813e-42	3.94329e-40	2.27744e-37	8.83578e-35
0.100000	3.20668e-45	6.28625e-43	1.21663e-40	4.64743e-38	1.50739e-35
0.0100000	4.38786e-46	8.67115e-44	1.82208e-41	9.27199e-39	4.23497e-36
0.00100000	2.15497e-45	1.20762e-45	5.50744e-43	5.73541e-40	4.67849e-37
0.000100000	1.08160e-49	8.54683e-47	4.46729e-44	5.15121e-41	4.67068e-38
1.00000e-05	1.02735e-50	8.29249e-48	4.37619e-45	5.09135e-42	4.66884e-39
1.00000e-06	1.02238e-51	8.26803e-49	4.36723e-46	5.08535e-43	4.66864e-40
1.00000e-07	1.02189e-52	8.26560e-50	4.36633e-47	5.08475e-44	4.66862e-41
1.00000e-08	1.02184e-53	8.26535e-51	4.36624e-48	5.08469e-45	4.66862e-42
1.00000e-09	1.02183e-54	8.26533e-52	4.36623e-49	5.08468e-46	4.66862e-43

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.61331e-44	5.62864e-43	1.49712e-41	2.98595e-40	4.69922e-39
1.00000e+07	2.04027e-40	7.05393e-39	1.82673e-37	3.47826e-36	5.17217e-35
1.00000e+06	5.74883e-37	1.93209e-35	4.75427e-34	8.49304e-33	1.18039e-31
100000.	2.37180e-34	7.58876e-33	1.72999e-31	2.84487e-30	3.64539e-29
10000.0	1.04411e-32	3.19018e-31	6.74560e-30	1.02512e-28	1.21642e-27
1000.00	5.18539e-32	1.75883e-30	3.74268e-29	5.47965e-28	6.16440e-27
100.000	1.18972e-31	5.27464e-30	1.21268e-28	1.79949e-27	2.01134e-26
10.0000	2.16615e-31	1.15227e-29	2.62634e-28	3.76685e-27	4.06052e-26
1.00000	2.26673e-31	1.33468e-29	3.03362e-28	4.30848e-27	4.60000e-26
0.100000	2.27954e-31	1.36328e-29	3.10001e-28	4.39990e-27	4.69413e-26
0.0100000	2.29415e-31	1.37485e-29	3.12557e-28	4.43447e-27	4.72927e-26
0.00100000	2.29667e-31	1.37716e-29	3.13040e-28	4.44073e-27	4.73544e-26
0.000100000	2.29692e-31	1.37742e-29	3.13092e-28	4.44142e-27	4.73611e-26
1.00000e-05	2.29695e-31	1.37744e-29	3.13098e-28	4.44149e-27	4.73618e-26
1.00000e-06	2.29695e-31	1.37744e-29	3.13098e-28	4.44149e-27	4.73619e-26
1.00000e-07	2.29695e-31	1.37744e-29	3.13098e-28	4.44149e-27	4.73619e-26
1.00000e-08	2.29695e-31	1.37744e-29	3.13098e-28	4.44149e-27	4.73619e-26
1.00000e-09	2.29695e-31	1.37744e-29	3.13098e-28	4.44149e-27	4.73619e-26

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	6.10387e-38	6.79940e-37	6.54320e-36	5.53547e-35	4.19294e-34
1.00000e+07	6.31422e-34	6.58405e-33	5.91400e-32	4.66190e-31	3.28682e-30
1.00000e+06	1.34555e-30	1.30472e-29	1.09123e-28	8.03461e-28	5.30458e-27
100000.	3.83678e-28	3.42648e-27	2.64816e-26	1.80984e-25	1.11406e-24
10000.0	1.18539e-26	9.77633e-26	6.97258e-25	4.39155e-24	2.48638e-23
1000.00	5.64220e-26	4.33341e-25	2.85195e-24	1.64118e-23	8.39769e-23
100.000	1.81372e-25	1.36285e-24	8.71949e-24	4.84832e-23	2.38193e-22
10.0000	3.52583e-25	2.54576e-24	1.56364e-23	8.33969e-23	3.92747e-22
1.00000	3.95622e-25	2.82933e-24	1.72170e-23	9.10031e-23	4.24868e-22
0.100000	4.03406e-25	2.88273e-24	1.75282e-23	9.25763e-23	4.31881e-22
0.0100000	4.06276e-25	2.90211e-24	1.76391e-23	9.31254e-23	4.34270e-22
0.00100000	4.06764e-25	2.90530e-24	1.76569e-23	9.32106e-23	4.34630e-22
0.000100000	4.06817e-25	2.90565e-24	1.76588e-23	9.32197e-23	4.34668e-22
1.00000e-05	4.06822e-25	2.90568e-24	1.76590e-23	9.32206e-23	4.34672e-22
1.00000e-06	4.06823e-25	2.90569e-24	1.76590e-23	9.32207e-23	4.34672e-22
1.00000e-07	4.06823e-25	2.90569e-24	1.76590e-23	9.32207e-23	4.34673e-22
1.00000e-08	4.06823e-25	2.90569e-24	1.76590e-23	9.32207e-23	4.34673e-22
1.00000e-09	4.06823e-25	2.90569e-24	1.76590e-23	9.32207e-23	4.34673e-22

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	2.87833e-33	1.80590e-32	1.04270e-31	7.20635e-24	2.76019e-30
1.00000e+07	2.10000e-29	1.22764e-28	6.62017e-28	1.93391e-20	1.54739e-26
1.00000e+06	3.18445e-26	1.75713e-25	8.99081e-25	1.12591e-17	1.92281e-23
100000.	6.27111e-24	3.26824e-23	1.59237e-22	5.91825e-16	3.16196e-21
10000.0	1.28477e-22	6.13663e-22	2.73790e-21	1.16810e-15	4.56914e-20
1000.00	3.87493e-22	1.63155e-21	6.33333e-21	1.26296e-16	7.74062e-20
100.000	1.04828e-21	4.18020e-21	1.52527e-20	5.87481e-18	1.60724e-19
10.0000	1.65616e-21	6.32676e-21	2.21147e-20	3.41535e-19	2.13871e-19
1.00000	1.77681e-21	6.73435e-21	2.33636e-20	8.83819e-20	2.22826e-19
0.100000	1.80476e-21	6.83507e-21	2.36950e-20	6.59985e-20	2.25638e-19
0.0100000	1.81403e-21	6.86751e-21	2.37985e-20	6.32609e-20	2.26464e-19

0.00100000	1.81539e-21	6.87215e-21	2.38129e-20	6.30067e-20	2.26574e-19
0.000100000	1.81554e-21	6.87264e-21	2.38145e-20	6.29821e-20	2.26585e-19
1.00000e-05	1.81555e-21	6.87269e-21	2.38146e-20	6.29796e-20	2.26587e-19
1.00000e-06	1.81555e-21	6.87269e-21	2.38146e-20	6.29794e-20	2.26587e-19
1.00000e-07	1.81555e-21	6.87269e-21	2.38146e-20	6.29793e-20	2.26587e-19
1.00000e-08	1.81555e-21	6.87269e-21	2.38146e-20	6.29793e-20	2.26587e-19
1.00000e-09	1.81555e-21	6.87269e-21	2.38146e-20	6.29793e-20	2.26587e-19

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	3.33588e-16	3.87836e-11	6.14757e-09	1.23849e-07	5.46793e-07
1.00000e+07	4.10714e-13	1.75790e-08	9.83006e-07	6.06784e-06	1.36840e-05
1.00000e+06	3.65599e-11	3.32274e-07	1.20166e-05	4.27831e-05	7.03426e-05
100000.	1.41611e-10	2.32075e-07	1.05295e-05	4.94716e-05	8.84969e-05
10000.0	3.05391e-11	2.42827e-08	2.20423e-06	2.24411e-05	5.83753e-05
1000.00	1.28198e-12	1.82517e-09	5.17322e-07	9.45749e-06	3.02030e-05
100.000	7.69265e-14	2.63814e-10	1.32520e-07	2.77861e-06	8.51505e-06
10.0000	9.04316e-15	3.94396e-11	1.97928e-08	3.93548e-07	1.13292e-06
1.00000	1.36026e-15	4.29969e-12	1.91637e-09	3.76108e-08	1.11031e-07
0.100000	5.03597e-16	5.18515e-13	1.86756e-10	3.63137e-09	1.14680e-08
0.0100000	4.16622e-16	1.44874e-13	2.29172e-11	4.36257e-10	1.94558e-09
0.00100000	4.07900e-16	1.07536e-13	6.79785e-12	1.26291e-10	1.01918e-09
0.000100000	4.07027e-16	1.03800e-13	5.19553e-12	9.57848e-11	9.28057e-10
1.00000e-05	4.06939e-16	1.03426e-13	5.03575e-12	9.27607e-11	9.19034e-10
1.00000e-06	4.06931e-16	1.03389e-13	5.01979e-12	9.24593e-11	9.18135e-10
1.00000e-07	4.06930e-16	1.03385e-13	5.01819e-12	9.24292e-11	9.18045e-10
1.00000e-08	4.06930e-16	1.03384e-13	5.01803e-12	9.24262e-11	9.18036e-10
1.00000e-09	4.06930e-16	1.03384e-13	5.01802e-12	9.24259e-11	9.18035e-10

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	9.78666e-07	1.30481e-06	1.63215e-06	1.83186e-06	1.93726e-06
1.00000e+07	2.00329e-05	2.63309e-05	3.49529e-05	4.30424e-05	4.89071e-05
1.00000e+06	9.26686e-05	0.000114073	0.000137061	0.000156097	0.000168937
100000.	0.000118520	0.000141223	0.000157969	0.000168477	0.000172388
10000.0	8.61679e-05	9.92197e-05	0.000101576	9.71230e-05	8.83498e-05
1000.00	4.28403e-05	4.24402e-05	3.60776e-05	2.85615e-05	2.20662e-05
100.000	1.01868e-05	8.30249e-06	5.97649e-06	4.31456e-06	3.59432e-06
10.0000	1.23734e-06	9.50048e-07	7.24429e-07	7.48152e-07	1.21605e-06
1.00000	1.25881e-07	1.17993e-07	1.69260e-07	3.88565e-07	9.83684e-07
0.100000	1.75680e-08	3.74611e-08	1.15893e-07	3.54162e-07	9.61507e-07
0.0100000	7.11958e-09	2.96736e-08	1.10730e-07	3.50831e-07	9.59358e-07
0.00100000	6.09956e-09	2.89121e-08	1.10224e-07	3.50505e-07	9.59147e-07
0.000100000	5.99909e-09	2.88370e-08	1.10174e-07	3.50473e-07	9.59127e-07
1.00000e-05	5.98914e-09	2.88295e-08	1.10169e-07	3.50469e-07	9.59125e-07
1.00000e-06	5.98815e-09	2.88288e-08	1.10169e-07	3.50469e-07	9.59124e-07
1.00000e-07	5.98805e-09	2.88287e-08	1.10169e-07	3.50469e-07	9.59124e-07
1.00000e-08	5.98804e-09	2.88287e-08	1.10169e-07	3.50469e-07	9.59124e-07
1.00000e-09	5.98804e-09	2.88287e-08	1.10169e-07	3.50469e-07	9.59124e-07

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	2.06129e-06	2.21021e-06	0.000646036	0.000744032	0.000836637
1.00000e+07	5.35868e-05	5.74739e-05	0.00192709	0.00211895	0.00213058
1.00000e+06	0.000176944	0.000180930	0.000295425	0.000272645	0.000230398
100000.	0.000170695	0.000164815	0.000214742	0.000159815	0.000113092
10000.0	7.76391e-05	6.73405e-05	0.000705583	0.000429005	0.000322657
1000.00	1.76203e-05	1.58691e-05	0.000123207	0.000111012	0.000160432
100.000	4.05777e-06	6.15733e-06	3.29072e-05	7.07254e-05	0.000142254
10.0000	2.47956e-06	5.10924e-06	2.33734e-05	6.66670e-05	0.000140464
1.00000	2.32846e-06	5.01015e-06	2.24348e-05	6.62690e-05	0.000140289
0.100000	2.31405e-06	5.00070e-06	2.23423e-05	6.62298e-05	0.000140272
0.0100000	2.31265e-06	4.99978e-06	2.23331e-05	6.62259e-05	0.000140270
0.00100000	2.31251e-06	4.99969e-06	2.23322e-05	6.62255e-05	0.000140270
0.000100000	2.31250e-06	4.99968e-06	2.23321e-05	6.62255e-05	0.000140270
1.00000e-05	2.31250e-06	4.99968e-06	2.23321e-05	6.62255e-05	0.000140270
1.00000e-06	2.31250e-06	4.99968e-06	2.23321e-05	6.62255e-05	0.000140270
1.00000e-07	2.31250e-06	4.99968e-06	2.23321e-05	6.62255e-05	0.000140270
1.00000e-08	2.31250e-06	4.99968e-06	2.23321e-05	6.62255e-05	0.000140270
1.00000e-09	2.31250e-06	4.99968e-06	2.23321e-05	6.62255e-05	0.000140270

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.000899060	0.000915443	0.000884624	0.000818953	0.000735306
1.00000e+07	0.00195611	0.00167581	0.00137664	0.00111008	0.000893348
1.00000e+06	0.00180207	0.00135678	0.00102433	0.000798524	0.000650262
100000.	0.000796090	0.000614115	0.000533013	0.000498582	0.000478156
10000.0	0.000315878	0.000356566	0.000403321	0.000435912	0.000448881
1000.00	0.000240127	0.000322572	0.000388296	0.000429347	0.000446073
100.000	0.000232275	0.000319213	0.000386858	0.000428735	0.000445819

10.0000	0.000231512	0.000318889	0.000386721	0.000428677	0.000445796
1.00000	0.000231437	0.000318857	0.000386707	0.000428672	0.000445793
0.100000	0.000231430	0.000318854	0.000386706	0.000428671	0.000445793
0.0100000	0.000231429	0.000318854	0.000386706	0.000428671	0.000445793
0.00100000	0.000231429	0.000318854	0.000386706	0.000428671	0.000445793
0.000100000	0.000231429	0.000318854	0.000386706	0.000428671	0.000445793
1.00000e-05	0.000231429	0.000318854	0.000386706	0.000428671	0.000445793
1.00000e-06	0.000231429	0.000318854	0.000386706	0.000428671	0.000445793
1.00000e-07	0.000231429	0.000318854	0.000386706	0.000428671	0.000445793
1.00000e-08	0.000231429	0.000318854	0.000386706	0.000428671	0.000445793
1.00000e-09	0.000231429	0.000318854	0.000386706	0.000428671	0.000445793

Pa\K	3750.00	4000.00

1.00000e+08	0.000647640	0.000564585
1.00000e+07	0.000724863	0.000596133
1.00000e+06	0.000550837	0.000479716
100000.	0.000457211	0.000431502
10000.0	0.000444080	0.000426007
1000.00	0.000442937	0.000425595
100.000	0.000442839	0.000425563
10.0000	0.000442830	0.000425560
1.00000	0.000442829	0.000425560
0.100000	0.000442829	0.000425560
0.0100000	0.000442829	0.000425560
0.00100000	0.000442829	0.000425560
0.000100000	0.000442829	0.000425560
1.00000e-05	0.000442829	0.000425560
1.00000e-06	0.000442829	0.000425560
1.00000e-07	0.000442829	0.000425560
1.00000e-08	0.000442829	0.000425560
1.00000e-09	0.000442829	0.000425560

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000

1.00000e+08	2.55002e-50	1.47680e-49	6.78488e-49	3.33068e-48	1.85249e-47
1.00000e+07	2.54712e-48	1.47342e-47	6.76172e-47	3.31560e-46	1.84204e-45
1.00000e+06	2.51858e-46	1.44052e-45	6.53927e-45	3.17258e-44	1.74420e-43
100000.	2.26742e-44	1.18259e-43	4.96145e-43	2.24507e-42	1.15933e-41
10000.0	1.16510e-42	4.10265e-42	1.24592e-41	4.21763e-41	1.66616e-40
1000.00	4.52586e-42	2.28091e-42	1.73719e-42	2.05698e-42	3.58218e-42
100.000	2.70134e-44	2.12389e-44	2.31099e-44	3.29566e-44	6.28223e-44
10.0000	7.96139e-46	8.07456e-46	1.54602e-45	3.64781e-45	1.06859e-44
1.00000	2.57271e-46	9.05372e-47	8.58432e-47	1.83029e-46	6.31181e-46
0.100000	5.72443e-47	1.52407e-46	4.12632e-46	1.30207e-45	5.05598e-45
0.0100000	4.64896e-46	1.01973e-45	2.31991e-45	6.25729e-45	2.10629e-44
0.00100000	9.29126e-46	7.05409e-46	7.61771e-46	1.17050e-45	2.52699e-45
0.000100000	2.01589e-47	3.77417e-48	2.23116e-48	2.49091e-48	4.46835e-48
1.00000e-05	2.23615e-50	4.19535e-51	2.79305e-51	3.52300e-51	7.11383e-51
1.00000e-06	4.96605e-53	1.41451e-53	1.20803e-53	1.84373e-53	4.52148e-53
1.00000e-07	4.36479e-55	1.89446e-55	2.10012e-55	4.03965e-55	1.32045e-54
1.00000e-08	1.42636e-56	8.87954e-57	1.20400e-56	2.70259e-56	1.02163e-55
1.00000e-09	1.11342e-57	7.80247e-58	1.10979e-57	2.56473e-57	9.91350e-57

Pa\K	70.0000	80.0000	90.0000	100.000	110.000

1.00000e+08	1.22393e-46	1.04064e-45	1.30739e-44	2.89934e-43	1.26630e-41
1.00000e+07	1.21567e-44	1.03251e-43	1.29593e-42	2.87215e-41	1.25440e-39
1.00000e+06	1.13932e-42	9.58183e-42	1.19238e-40	2.62825e-39	1.14801e-37
100000.	7.15714e-41	5.72621e-40	6.84339e-39	1.47337e-37	6.46018e-36
10000.0	8.02108e-40	5.11897e-39	5.09339e-38	1.00423e-36	4.74196e-35
1000.00	9.15038e-42	3.76098e-41	3.38986e-40	1.12935e-38	1.64933e-36
100.000	1.74165e-43	8.33646e-43	8.59478e-42	2.49270e-40	4.16025e-38
10.0000	4.10499e-44	2.33292e-43	2.47233e-42	6.61252e-41	6.48178e-39
1.00000	3.22303e-45	2.76798e-44	5.22803e-43	2.46215e-41	2.80333e-39
0.100000	2.67018e-44	2.31776e-43	4.38461e-42	2.03000e-40	2.11223e-38
0.0100000	9.75905e-44	7.50930e-43	1.27272e-41	5.36982e-40	5.30948e-38
0.00100000	8.15985e-45	4.66432e-44	6.31912e-43	2.46223e-41	3.12151e-39
0.000100000	1.29508e-47	7.17096e-47	1.26194e-45	1.21325e-43	5.83473e-41
1.00000e-05	2.38104e-50	1.99697e-49	1.49720e-47	4.77625e-45	4.12514e-42
1.00000e-06	2.19243e-52	5.30440e-51	1.07788e-48	4.27957e-46	3.97127e-43
1.00000e-07	1.04075e-53	4.36849e-52	1.04249e-49	4.23222e-47	3.95606e-44
1.00000e-08	9.33584e-55	4.27987e-53	1.03902e-50	4.22750e-48	3.95454e-45
1.00000e-09	9.22864e-56	4.27104e-54	1.03867e-51	4.22703e-49	3.95439e-46

Pa\K	120.000	130.000	140.000	150.000	160.000

1.00000e+08	8.42621e-40	6.79043e-38	4.90746e-36	2.63037e-34	7.55040e-33

1.00000e+07	8.35039e-38	6.73464e-36	4.87207e-34	2.61301e-32	7.49869e-31
1.00000e+06	7.67119e-36	6.23244e-34	4.55178e-32	2.45535e-30	7.03123e-29
100000.	4.41171e-34	3.73568e-32	2.89124e-30	1.61700e-28	4.58393e-27
10000.0	3.81138e-33	4.14862e-31	4.49920e-29	3.03004e-27	8.41030e-26
1000.00	3.69786e-34	1.21251e-31	6.45665e-29	7.20526e-27	2.01451e-25
100.000	1.68808e-35	1.10583e-32	5.85504e-29	8.04256e-27	2.25778e-25
10.0000	1.81185e-36	1.13779e-33	5.75857e-29	8.13685e-27	2.28540e-25
1.00000	4.86547e-37	1.69478e-34	5.74889e-29	8.14749e-27	2.28854e-25
0.100000	2.77049e-36	4.58211e-34	5.75436e-29	8.15474e-27	2.29079e-25
0.0100000	6.96544e-36	1.26376e-33	5.77721e-29	8.17956e-27	2.29796e-25
0.00100000	6.65121e-37	2.59692e-34	5.78186e-29	8.19567e-27	2.30238e-25
0.000100000	3.04269e-38	2.32654e-35	5.78059e-29	8.19801e-27	2.30303e-25
1.00000e-05	2.65382e-39	2.27587e-36	5.78042e-29	8.19825e-27	2.30310e-25
1.00000e-06	2.61533e-40	2.27051e-37	5.78040e-29	8.19828e-27	2.30311e-25
1.00000e-07	2.61148e-41	2.26997e-38	5.78040e-29	8.19828e-27	2.30311e-25
1.00000e-08	2.61110e-42	2.26992e-39	5.78040e-29	8.19828e-27	2.30311e-25
1.00000e-09	2.61106e-43	2.26991e-40	5.78040e-29	8.19828e-27	2.30311e-25

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.46839e-31	2.11218e-30	2.37594e-29	2.15840e-28	1.63324e-27
1.00000e+07	1.45766e-29	2.09552e-28	2.35552e-27	2.13806e-26	1.61630e-25
1.00000e+06	1.36135e-27	1.94732e-26	2.17568e-25	1.96109e-24	1.47080e-23
100000.	8.70695e-26	1.21661e-24	1.32200e-23	1.15510e-22	8.36997e-22
10000.0	1.52350e-24	2.00921e-23	2.04176e-22	1.65838e-21	1.11136e-20
1000.00	3.57448e-24	4.57417e-23	4.48245e-22	3.49996e-21	2.25108e-20
100.000	3.99883e-24	5.09740e-23	4.96963e-22	3.85811e-21	2.46651e-20
10.0000	4.04707e-24	5.15681e-23	5.02482e-22	3.89856e-21	2.49076e-20
1.00000	4.05262e-24	5.16375e-23	5.03140e-22	3.90351e-21	2.49383e-20
0.100000	4.05697e-24	5.16979e-23	5.03784e-22	3.90899e-21	2.49768e-20
0.0100000	4.06993e-24	5.18663e-23	5.05455e-22	3.92217e-21	2.50620e-20
0.00100000	4.07750e-24	5.19588e-23	5.06313e-22	3.92847e-21	2.50999e-20
0.000100000	4.07861e-24	5.19723e-23	5.06437e-22	3.92936e-21	2.51052e-20
1.00000e-05	4.07873e-24	5.19737e-23	5.06450e-22	3.92945e-21	2.51057e-20
1.00000e-06	4.07874e-24	5.19738e-23	5.06451e-22	3.92946e-21	2.51058e-20
1.00000e-07	4.07874e-24	5.19739e-23	5.06451e-22	3.92946e-21	2.51058e-20
1.00000e-08	4.07874e-24	5.19739e-23	5.06451e-22	3.92946e-21	2.51058e-20
1.00000e-09	4.07874e-24	5.19739e-23	5.06451e-22	3.92946e-21	2.51058e-20

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.05589e-26	5.95347e-26	2.97768e-25	1.34038e-24	5.49676e-24
1.00000e+07	1.04378e-24	5.87770e-24	2.93551e-23	1.31922e-22	5.39991e-22
1.00000e+06	9.41321e-23	5.24725e-22	2.59112e-21	1.14989e-20	4.64184e-20
100000.	5.15756e-21	2.75825e-20	1.30220e-19	5.50575e-19	2.11012e-18
10000.0	6.30550e-20	3.09392e-19	1.33649e-18	5.15967e-18	1.80312e-17
1000.00	1.22510e-19	5.76743e-19	2.39226e-18	8.87882e-18	2.98734e-17
100.000	1.33419e-19	6.24338e-19	2.57466e-18	9.50267e-18	3.18036e-17
10.0000	1.34643e-19	6.29662e-19	2.59501e-18	9.57214e-18	3.20183e-17
1.00000	1.34804e-19	6.30403e-19	2.59803e-18	9.58329e-18	3.20562e-17
0.100000	1.35034e-19	6.31586e-19	2.60339e-18	9.60500e-18	3.21354e-17
0.0100000	1.35498e-19	6.33765e-19	2.61235e-18	9.63779e-18	3.22437e-17
0.00100000	1.35690e-19	6.34600e-19	2.61554e-18	9.64864e-18	3.22770e-17
0.000100000	1.35716e-19	6.34711e-19	2.61596e-18	9.65003e-18	3.22812e-17
1.00000e-05	1.35719e-19	6.34722e-19	2.61600e-18	9.65017e-18	3.22816e-17
1.00000e-06	1.35719e-19	6.34723e-19	2.61601e-18	9.65019e-18	3.22817e-17
1.00000e-07	1.35719e-19	6.34724e-19	2.61601e-18	9.65019e-18	3.22817e-17
1.00000e-08	1.35719e-19	6.34724e-19	2.61601e-18	9.65019e-18	3.22817e-17
1.00000e-09	1.35719e-19	6.34724e-19	2.61601e-18	9.65019e-18	3.22817e-17

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	2.07480e-23	7.27029e-23	2.38194e-22	5.28839e-19	2.13743e-21
1.00000e+07	2.03398e-21	7.11061e-21	2.32362e-20	4.30328e-17	2.07294e-19
1.00000e+06	1.72197e-19	5.92070e-19	1.90045e-18	1.58770e-15	1.63021e-17
100000.	7.40637e-18	2.40158e-17	7.24801e-17	7.49929e-15	5.45551e-16
10000.0	5.76638e-17	1.70339e-16	4.68547e-16	2.91884e-15	2.94037e-15
1000.00	9.21317e-17	2.62930e-16	7.00014e-16	1.61430e-15	4.13899e-15
100.000	9.75966e-17	2.77226e-16	7.34858e-16	1.45730e-15	4.31117e-15
10.0000	9.82041e-17	2.78816e-16	7.38742e-16	1.44239e-15	4.33055e-15
1.00000	9.83235e-17	2.79170e-16	7.39734e-16	1.44994e-15	4.33728e-15
0.100000	9.85878e-17	2.79980e-16	7.42038e-16	1.45546e-15	4.35250e-15
0.0100000	9.89131e-17	2.80880e-16	7.44348e-16	1.45046e-15	4.36498e-15
0.00100000	9.90067e-17	2.81123e-16	7.44931e-16	1.44901e-15	4.36777e-15
0.000100000	9.90183e-17	2.81152e-16	7.45001e-16	1.44888e-15	4.36810e-15
1.00000e-05	9.90195e-17	2.81155e-16	7.45008e-16	1.44887e-15	4.36813e-15
1.00000e-06	9.90196e-17	2.81155e-16	7.45009e-16	1.44887e-15	4.36813e-15
1.00000e-07	9.90196e-17	2.81156e-16	7.45009e-16	1.44887e-15	4.36813e-15
1.00000e-08	9.90196e-17	2.81156e-16	7.45009e-16	1.44887e-15	4.36813e-15
1.00000e-09	9.90196e-17	2.81156e-16	7.45009e-16	1.44887e-15	4.36813e-15

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	7.37442e-16	1.04909e-12	4.80727e-10	7.52885e-08	1.91242e-06
1.00000e+07	5.40265e-14	4.95636e-10	3.00176e-08	2.78598e-07	1.61911e-06
1.00000e+06	2.37132e-12	1.15805e-08	3.86835e-07	1.39342e-06	2.57207e-06
100000.	1.21830e-11	1.12471e-08	3.83141e-07	1.65899e-06	2.97937e-06
10000.0	5.52702e-12	1.83105e-09	9.54449e-08	8.10737e-07	2.05136e-06
1000.00	1.69081e-12	2.70539e-10	2.50692e-08	3.58728e-07	1.11954e-06
100.000	1.39010e-12	1.24346e-10	7.81739e-09	1.17491e-07	3.83669e-07
10.0000	1.36672e-12	1.02015e-10	2.77868e-09	3.12503e-08	1.32694e-07
1.00000	1.36964e-12	9.88567e-11	1.98523e-09	1.83989e-08	9.80000e-08
0.100000	1.37223e-12	9.85887e-11	1.90899e-09	1.71744e-08	9.46297e-08
0.0100000	1.37224e-12	9.85640e-11	1.90183e-09	1.70596e-08	9.43082e-08
0.00100000	1.37220e-12	9.85619e-11	1.90113e-09	1.70484e-08	9.42769e-08
0.000100000	1.37219e-12	9.85618e-11	1.90106e-09	1.70474e-08	9.42739e-08
1.00000e-05	1.37219e-12	9.85617e-11	1.90106e-09	1.70472e-08	9.42736e-08
1.00000e-06	1.37219e-12	9.85617e-11	1.90106e-09	1.70472e-08	9.42735e-08
1.00000e-07	1.37219e-12	9.85617e-11	1.90106e-09	1.70472e-08	9.42735e-08
1.00000e-08	1.37219e-12	9.85617e-11	1.90106e-09	1.70472e-08	9.42735e-08
1.00000e-09	1.37219e-12	9.85617e-11	1.90106e-09	1.70472e-08	9.42735e-08

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	1.24356e-05	4.09675e-05	8.85651e-05	0.000125622	0.000133369
1.00000e+07	7.15096e-06	2.57581e-05	7.14054e-05	0.000136017	0.000200914
1.00000e+06	4.78915e-06	1.15773e-05	2.98815e-05	5.72923e-05	9.25635e-05
100000.	4.36288e-06	6.73824e-06	1.19069e-05	2.01175e-05	3.26924e-05
10000.0	3.22209e-06	4.53543e-06	6.88508e-06	1.13583e-05	1.95568e-05
1000.00	1.79546e-06	2.59550e-06	4.40195e-06	8.41773e-06	1.62540e-05
100.000	7.13695e-07	1.46675e-06	3.38249e-06	7.55490e-06	1.55403e-05
10.0000	4.17398e-07	1.22532e-06	3.20836e-06	7.43289e-06	1.54542e-05
1.00000	3.80732e-07	1.19822e-06	3.19020e-06	7.42080e-06	1.54460e-05
0.100000	3.77176e-07	1.19561e-06	3.18846e-06	7.41965e-06	1.54453e-05
0.0100000	3.76834e-07	1.19536e-06	3.18830e-06	7.41954e-06	1.54452e-05
0.00100000	3.76801e-07	1.19534e-06	3.18828e-06	7.41953e-06	1.54452e-05
0.000100000	3.76797e-07	1.19534e-06	3.18828e-06	7.41953e-06	1.54452e-05
1.00000e-05	3.76797e-07	1.19534e-06	3.18828e-06	7.41953e-06	1.54452e-05
1.00000e-06	3.76797e-07	1.19534e-06	3.18828e-06	7.41953e-06	1.54452e-05
1.00000e-07	3.76797e-07	1.19534e-06	3.18828e-06	7.41953e-06	1.54452e-05
1.00000e-08	3.76797e-07	1.19534e-06	3.18828e-06	7.41953e-06	1.54452e-05
1.00000e-09	3.76797e-07	1.19534e-06	3.18828e-06	7.41953e-06	1.54452e-05

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.000126542	0.000121123	0.00180931	0.00206217	0.00215698
1.00000e+07	0.000254631	0.000290077	0.00226760	0.00223175	0.00192273
1.00000e+06	0.000134959	0.000168407	0.00101594	0.000930768	0.000919673
100000.	5.15555e-05	7.46470e-05	0.000308665	0.000451483	0.000663250
10000.0	3.35213e-05	5.50800e-05	0.000187535	0.000378489	0.000626916
1000.00	2.99305e-05	5.16793e-05	0.000171490	0.000369349	0.000622559
100.000	2.93422e-05	5.12334e-05	0.000169754	0.000368446	0.000622138
10.0000	2.92816e-05	5.11965e-05	0.000169599	0.000368368	0.000622100
1.00000	2.92761e-05	5.11937e-05	0.000169586	0.000368361	0.000622097
0.100000	2.92756e-05	5.11935e-05	0.000169585	0.000368361	0.000622097
0.0100000	2.92756e-05	5.11935e-05	0.000169584	0.000368361	0.000622096
0.00100000	2.92756e-05	5.11935e-05	0.000169584	0.000368361	0.000622096
0.000100000	2.92756e-05	5.11935e-05	0.000169584	0.000368361	0.000622096
1.00000e-05	2.92756e-05	5.11935e-05	0.000169584	0.000368361	0.000622096
1.00000e-06	2.92756e-05	5.11935e-05	0.000169584	0.000368361	0.000622096
1.00000e-07	2.92756e-05	5.11935e-05	0.000169584	0.000368361	0.000622096
1.00000e-08	2.92756e-05	5.11935e-05	0.000169584	0.000368361	0.000622096
1.00000e-09	2.92756e-05	5.11935e-05	0.000169584	0.000368361	0.000622096

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00212263	0.00199965	0.00183836	0.00167872	0.00153997
1.00000e+07	0.00164992	0.00149400	0.00142098	0.00138289	0.00135086
1.00000e+06	0.00101333	0.00113655	0.00123438	0.00128988	0.00130632
100000.	0.000890638	0.00108045	0.00120941	0.00127912	0.00130193
10000.0	0.000874409	0.00107359	0.00120662	0.00127805	0.00130156
1000.00	0.000872595	0.00107288	0.00120636	0.00127796	0.00130154
100.000	0.000872423	0.00107281	0.00120633	0.00127795	0.00130154
10.0000	0.000872407	0.00107280	0.00120633	0.00127795	0.00130154
1.00000	0.000872406	0.00107280	0.00120633	0.00127795	0.00130154
0.100000	0.000872406	0.00107280	0.00120633	0.00127795	0.00130154
0.0100000	0.000872406	0.00107280	0.00120633	0.00127795	0.00130154
0.00100000	0.000872406	0.00107280	0.00120633	0.00127795	0.00130154
0.000100000	0.000872406	0.00107280	0.00120633	0.00127795	0.00130154
1.00000e-05	0.000872406	0.00107280	0.00120633	0.00127795	0.00130154

1.00000e-06	0.000872406	0.00107280	0.00120633	0.00127795	0.00130154
1.00000e-07	0.000872406	0.00107280	0.00120633	0.00127795	0.00130154
1.00000e-08	0.000872406	0.00107280	0.00120633	0.00127795	0.00130154
1.00000e-09	0.000872406	0.00107280	0.00120633	0.00127795	0.00130154

Pa\K	3750.00	4000.00
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1.00000e+08	0.00142521	0.00133033
1.00000e+07	0.00131358	0.00126917
1.00000e+06	0.00129335	0.00126084
100000.	0.00129177	0.00126044
10000.0	0.00129168	0.00126045
1000.00	0.00129167	0.00126045
100.000	0.00129168	0.00126046
10.0000	0.00129168	0.00126046
1.00000	0.00129168	0.00126046
0.100000	0.00129168	0.00126046
0.0100000	0.00129168	0.00126046
0.00100000	0.00129168	0.00126046
0.000100000	0.00129168	0.00126046
1.00000e-05	0.00129168	0.00126046
1.00000e-06	0.00129168	0.00126046
1.00000e-07	0.00129168	0.00126046
1.00000e-08	0.00129168	0.00126046
1.00000e-09	0.00129168	0.00126046

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
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1.00000e+08	9.98060e-35	2.71911e-34	7.51194e-34	2.37912e-33	8.78002e-33
1.00000e+07	9.97343e-34	2.71519e-33	7.49601e-33	2.37255e-32	8.75043e-32
1.00000e+06	9.90229e-33	2.67666e-32	7.34056e-32	2.30888e-31	8.46592e-31
100000.	9.24637e-32	2.34772e-31	6.10223e-31	1.83245e-30	6.45480e-30
10000.0	5.77227e-31	1.15789e-30	2.57067e-30	6.78832e-30	2.13633e-29
1000.00	9.55212e-31	6.31966e-31	6.02071e-31	8.24943e-31	1.55371e-30
100.000	9.77695e-33	3.00833e-33	3.89931e-33	7.06927e-33	1.56465e-32
10.0000	7.48790e-34	4.25954e-34	1.16678e-33	5.13826e-33	2.60090e-32
1.00000	1.31116e-32	9.93099e-32	4.30890e-31	1.74517e-30	7.73628e-30
0.100000	2.69149e-30	1.44835e-29	5.33307e-29	1.93830e-28	7.92424e-28
0.0100000	2.39154e-28	1.02593e-27	3.20040e-27	1.00927e-26	3.62586e-26
0.00100000	7.56809e-27	2.04944e-26	4.89864e-26	1.27599e-25	3.92768e-25
0.000100000	5.99533e-26	1.06223e-25	1.88514e-25	3.84741e-25	9.60545e-25
1.00000e-05	6.01180e-26	3.64504e-26	3.42383e-26	4.55339e-26	8.38462e-26
1.00000e-06	1.86627e-27	6.12862e-28	4.80367e-28	6.08867e-28	1.16867e-27
1.00000e-07	2.44393e-29	1.00646e-29	9.60228e-30	1.48714e-29	3.73761e-29
1.00000e-08	8.31653e-31	4.81196e-31	5.58081e-31	1.00610e-30	2.92008e-30
1.00000e-09	6.51607e-32	4.23610e-32	5.15093e-32	9.55863e-32	2.83637e-31

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
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1.00000e+08	3.90244e-32	2.25109e-31	1.93487e-30	2.97828e-29	8.95044e-28
1.00000e+07	3.88709e-31	2.24114e-30	1.92573e-29	2.96469e-28	8.91785e-27
1.00000e+06	3.74049e-30	2.14664e-29	1.83937e-28	2.83638e-27	8.60920e-26
100000.	2.75599e-29	1.53938e-28	1.30082e-27	2.03798e-26	6.61909e-25
10000.0	8.25590e-29	4.24996e-28	3.45733e-27	5.83823e-26	2.51109e-24
1000.00	4.10428e-30	1.76506e-29	2.04319e-28	1.13646e-26	2.68854e-24
100.000	4.43739e-32	2.04468e-31	5.29575e-30	1.07165e-27	2.55109e-24
10.0000	1.63085e-31	1.50156e-30	2.38458e-29	6.57117e-28	2.54977e-24
1.00000	4.33160e-29	3.69980e-28	5.63382e-27	1.28583e-25	5.49656e-24
0.100000	4.17062e-27	3.41357e-26	5.10362e-25	1.15514e-23	2.62124e-22
0.0100000	1.69056e-25	1.24154e-24	1.73941e-23	3.85011e-22	8.36487e-21
0.00100000	1.60306e-24	1.05977e-23	1.47017e-22	3.50358e-21	7.92896e-20
0.000100000	3.27052e-24	1.90553e-23	2.97836e-22	9.08484e-21	2.30407e-19
1.00000e-05	2.34671e-25	1.82867e-24	1.35723e-22	8.17829e-21	2.54129e-19
1.00000e-06	4.23486e-27	4.32679e-25	1.14319e-22	7.90510e-21	2.54400e-19
1.00000e-07	2.16469e-28	3.75350e-25	1.12639e-22	7.87860e-21	2.54407e-19
1.00000e-08	1.95626e-29	3.70534e-25	1.12476e-22	7.87597e-21	2.54408e-19
1.00000e-09	1.93523e-30	3.70061e-25	1.12460e-22	7.87571e-21	2.54408e-19

Pa\K	120.000	130.000	140.000	150.000	160.000
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1.00000e+08	2.89193e-26	7.17037e-25	1.25982e-23	1.60446e-22	1.54444e-21
1.00000e+07	2.88312e-25	7.15024e-24	1.25632e-22	1.59989e-21	1.53979e-20
1.00000e+06	2.79941e-24	6.95872e-23	1.22314e-21	1.55654e-20	1.49596e-19
100000.	2.24303e-23	5.67135e-22	1.00088e-20	1.27003e-19	1.21205e-18
10000.0	9.78919e-23	2.61630e-21	4.69258e-20	5.93538e-19	5.58465e-18
1000.00	1.46405e-22	4.39971e-21	8.23059e-20	1.05096e-18	9.81970e-18
100.000	1.51201e-22	4.69372e-21	8.89929e-20	1.14166e-18	1.06685e-17
10.0000	1.51948e-22	4.73003e-21	8.97955e-20	1.15247e-18	1.07695e-17

1.00000	2.06631e-22	5.50927e-21	9.84529e-20	1.22978e-18	1.13414e-17
0.100000	4.74623e-21	6.58906e-20	7.13696e-19	6.19622e-18	4.41637e-17
0.0100000	1.39257e-19	1.70729e-18	1.58315e-17	1.15500e-16	6.87830e-16
0.00100000	1.30758e-18	1.53620e-17	1.33672e-16	9.02018e-16	4.91628e-15
0.000100000	3.86700e-18	4.41331e-17	3.64558e-16	2.30793e-15	1.17331e-14
1.00000e-05	4.55304e-18	5.29094e-17	4.36498e-16	2.73623e-15	1.37221e-14
1.00000e-06	4.61396e-18	5.38498e-17	4.44702e-16	2.78620e-15	1.39554e-14
1.00000e-07	4.61988e-18	5.39438e-17	4.45530e-16	2.79126e-15	1.39791e-14
1.00000e-08	4.62047e-18	5.39532e-17	4.45613e-16	2.79177e-15	1.39815e-14
1.00000e-09	4.62053e-18	5.39542e-17	4.45621e-16	2.79182e-15	1.39817e-14

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.17128e-20	7.25579e-20	3.78431e-19	1.70392e-18	6.76202e-18
1.00000e+07	1.16751e-19	7.23049e-19	3.76991e-18	1.69680e-17	6.73087e-17
1.00000e+06	1.13207e-18	6.99407e-18	3.63623e-17	1.63125e-16	6.44661e-16
100000.	9.08206e-18	5.54395e-17	2.84280e-16	1.25587e-15	4.88057e-15
10000.0	4.09690e-17	2.43637e-16	1.21253e-15	5.18315e-15	1.94408e-14
1000.00	7.08877e-17	4.12660e-16	2.00424e-15	8.34693e-15	3.04772e-14
100.000	7.68376e-17	4.45672e-16	2.15522e-15	8.93408e-15	3.24669e-14
10.0000	7.75456e-17	4.49609e-16	2.17331e-15	9.00514e-15	3.27116e-14
1.00000	8.11406e-17	4.69223e-16	2.26781e-15	9.41268e-15	3.43029e-14
0.100000	2.63843e-16	1.34621e-15	5.96883e-15	2.33649e-14	8.19107e-14
0.0100000	3.44877e-15	1.49286e-14	5.69222e-14	1.94303e-13	6.01605e-13
0.00100000	2.23820e-14	8.74669e-14	2.99960e-13	9.19124e-13	2.55386e-12
0.000100000	4.97171e-14	1.80871e-13	5.78502e-13	1.65815e-12	4.32595e-12
1.00000e-05	5.72779e-14	2.05245e-13	6.46954e-13	1.82920e-12	4.71276e-12
1.00000e-06	5.81627e-14	2.08078e-13	6.54843e-13	1.84873e-12	4.75647e-12
1.00000e-07	5.82526e-14	2.08366e-13	6.55643e-13	1.85071e-12	4.76090e-12
1.00000e-08	5.82616e-14	2.08395e-13	6.55724e-13	1.85090e-12	4.76134e-12
1.00000e-09	5.82625e-14	2.08398e-13	6.55732e-13	1.85092e-12	4.76138e-12

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.40617e-17	7.78773e-17	2.32018e-16	6.42715e-16	1.66950e-15
1.00000e+07	2.39392e-16	7.74374e-16	2.30561e-15	6.38226e-15	1.65651e-14
1.00000e+06	2.28315e-15	7.35063e-15	2.17709e-14	5.99154e-14	1.54516e-13
100000.	1.69749e-14	5.36015e-14	1.55513e-13	4.18726e-13	1.05521e-12
10000.0	6.51174e-14	1.97643e-13	5.50262e-13	1.41976e-12	3.42443e-12
1000.00	9.93567e-14	2.93578e-13	7.96139e-13	2.00239e-12	4.71245e-12
100.000	1.05349e-13	3.09877e-13	8.36708e-13	2.09582e-12	4.91341e-12
10.0000	1.06105e-13	3.12008e-13	8.42299e-13	2.10967e-12	4.94619e-12
1.00000	1.11783e-13	3.30674e-13	8.99200e-13	2.27151e-12	5.37802e-12
0.100000	2.60440e-13	7.59374e-13	2.04984e-12	5.16478e-12	1.22318e-11
0.0100000	1.70794e-12	4.48627e-12	1.09868e-11	2.52519e-11	5.47834e-11
0.00100000	6.51410e-12	1.54099e-11	3.41033e-11	7.11285e-11	1.40698e-10
0.000100000	1.04045e-11	2.33140e-11	4.90994e-11	9.79016e-11	1.85971e-10
1.00000e-05	1.12069e-11	2.48582e-11	5.18822e-11	1.02634e-10	1.93616e-10
1.00000e-06	1.12967e-11	2.50294e-11	5.21878e-11	1.03149e-10	1.94443e-10
1.00000e-07	1.13058e-11	2.50467e-11	5.22187e-11	1.03201e-10	1.94526e-10
1.00000e-08	1.13067e-11	2.50484e-11	5.22218e-11	1.03207e-10	1.94534e-10
1.00000e-09	1.13068e-11	2.50486e-11	5.22221e-11	1.03207e-10	1.94535e-10

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	4.09594e-15	9.54953e-15	2.12693e-14	4.77162e-13	9.36057e-14
1.00000e+07	4.06041e-14	9.45713e-14	2.10397e-13	4.47878e-13	9.23486e-13
1.00000e+06	3.76090e-13	8.69237e-13	1.91769e-12	3.41079e-12	8.25950e-12
100000.	2.50666e-12	5.64739e-12	1.21299e-11	5.82724e-11	4.93336e-11
10000.0	7.77853e-12	1.67451e-11	3.43499e-11	6.48889e-11	1.27363e-10
1000.00	1.04554e-11	2.20098e-11	4.42034e-11	1.31837e-10	1.57680e-10
100.000	1.08623e-11	2.27904e-11	4.56309e-11	6.31005e-10	1.61897e-10
10.0000	1.09373e-11	2.29577e-11	4.59961e-11	1.57609e-09	1.63534e-10
1.00000	1.20234e-11	2.55441e-11	5.18508e-11	1.54022e-09	1.89670e-10
0.100000	2.73924e-11	5.83040e-11	1.18470e-10	1.12939e-09	4.31900e-10
0.0100000	1.12754e-10	2.21159e-10	4.15061e-10	7.96567e-09	1.29900e-09
0.00100000	2.65402e-10	4.79681e-10	8.34130e-10	2.21814e-09	2.27845e-09
0.000100000	3.38320e-10	5.92086e-10	1.00067e-09	2.67570e-09	2.60772e-09
1.00000e-05	3.50118e-10	6.09561e-10	1.02562e-09	2.66877e-09	2.65388e-09
1.00000e-06	3.51384e-10	6.11424e-10	1.02826e-09	2.66550e-09	2.65872e-09
1.00000e-07	3.51511e-10	6.11611e-10	1.02853e-09	2.66515e-09	2.65920e-09
1.00000e-08	3.51524e-10	6.11630e-10	1.02855e-09	2.66511e-09	2.65925e-09
1.00000e-09	3.51525e-10	6.11632e-10	1.02856e-09	2.66511e-09	2.65926e-09

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	6.17416e-11	2.98882e-09	7.51991e-08	1.00149e-06	7.13926e-06
1.00000e+07	5.73068e-12	8.17032e-11	8.14763e-10	8.90114e-09	1.24325e-07
1.00000e+06	6.23404e-17	1.16409e-15	4.18043e-14	3.24810e-12	3.61207e-10
100000.	8.16755e-24	1.96215e-21	1.25019e-18	1.58895e-15	1.58967e-12

10000.0	9.33636e-29	1.91565e-25	9.80067e-22	7.69048e-18	2.81851e-14
1000.00	7.71815e-32	5.35121e-28	8.53062e-24	1.73175e-19	1.22039e-15
100.000	7.23750e-34	9.37041e-30	2.65519e-25	8.64894e-21	8.42992e-17
10.0000	2.53335e-35	4.54258e-31	1.75377e-26	7.38706e-22	8.13076e-18
1.00000	2.81062e-36	6.21231e-32	2.70690e-27	1.06329e-22	9.57013e-19
0.100000	1.25356e-36	2.01870e-32	6.02232e-28	1.56873e-23	1.07042e-19
0.0100000	4.94039e-37	4.69543e-33	9.15203e-29	1.80698e-24	1.10060e-20
0.00100000	9.07310e-38	6.27882e-34	1.01590e-29	1.85259e-25	1.10471e-21
0.000100000	1.01761e-38	6.58138e-35	1.03026e-30	1.85795e-26	1.10516e-22
1.00000e-05	1.02798e-39	6.61296e-36	1.03177e-31	1.85851e-27	1.10520e-23
1.00000e-06	1.02892e-40	6.61609e-37	1.03192e-32	1.85856e-28	1.10521e-24
1.00000e-07	1.02902e-41	6.61640e-38	1.03193e-33	1.85857e-29	1.10521e-25
1.00000e-08	1.02902e-42	6.61644e-39	1.03194e-34	1.85857e-30	1.10521e-26
1.00000e-09	1.02903e-43	6.61644e-40	1.03194e-35	1.85857e-31	1.10521e-27

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	3.54367e-05	0.000175428	0.000680551	0.00137538	0.00182944
1.00000e+07	1.42660e-06	1.09084e-05	5.34524e-05	0.000155822	0.000264065
1.00000e+06	2.02413e-08	3.82801e-07	2.47290e-06	7.76415e-06	1.45403e-05
100000.	3.65856e-10	1.41142e-08	1.19566e-07	4.03671e-07	8.30656e-07
10000.0	1.42953e-11	8.25895e-10	8.45311e-09	3.09373e-08	6.78132e-08
1000.00	9.17319e-13	6.51293e-11	7.35809e-10	2.80976e-09	6.32132e-09
100.000	7.64966e-14	5.91655e-12	6.94327e-11	2.70375e-10	6.15855e-10
10.0000	7.47575e-15	5.74986e-13	6.78523e-12	2.66302e-11	6.09707e-11
1.00000	7.71846e-16	5.73025e-14	6.74332e-13	2.65197e-12	6.08068e-12
0.100000	7.84796e-17	5.73409e-15	6.73843e-14	2.65055e-13	6.07858e-13
0.0100000	7.87153e-18	5.73491e-16	6.73796e-15	2.65041e-14	6.07836e-14
0.00100000	7.87426e-19	5.73501e-17	6.73791e-16	2.65039e-15	6.07834e-15
0.000100000	7.87455e-20	5.73503e-18	6.73791e-17	2.65039e-16	6.07834e-16
1.00000e-05	7.87458e-21	5.73503e-19	6.73791e-18	2.65039e-17	6.07834e-17
1.00000e-06	7.87458e-22	5.73503e-20	6.73791e-19	2.65039e-18	6.07834e-18
1.00000e-07	7.87458e-23	5.73503e-21	6.73791e-20	2.65039e-19	6.07834e-19
1.00000e-08	7.87458e-24	5.73503e-22	6.73791e-21	2.65039e-20	6.07834e-20
1.00000e-09	7.87458e-25	5.73503e-23	6.73791e-22	2.65039e-21	6.07834e-21

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.00205125	0.00215874	0.00146018	0.00143337	0.00143048
1.00000e+07	0.000333070	0.000372415	0.000159719	0.000171628	0.000185583
1.00000e+06	2.03293e-05	2.52606e-05	1.29787e-05	1.63027e-05	1.88249e-05
100000.	1.32549e-07	1.86336e-06	1.13704e-06	1.55385e-06	1.83406e-06
10000.0	1.14768e-07	1.68227e-07	1.09335e-07	1.52152e-07	1.80531e-07
1000.00	1.09092e-08	1.61962e-08	1.07955e-08	1.50833e-08	1.79139e-08
100.000	1.07084e-09	1.59632e-09	1.07483e-09	1.50220e-09	1.78416e-09
10.0000	1.06296e-10	1.58661e-10	1.07280e-10	1.49949e-10	1.78106e-10
1.00000	1.06086e-11	1.58403e-11	1.07246e-11	1.49904e-11	1.78056e-11
0.100000	1.06060e-12	1.58371e-12	1.07242e-12	1.49900e-12	1.78050e-12
0.0100000	1.06057e-13	1.58367e-13	1.07242e-13	1.49899e-13	1.78050e-13
0.00100000	1.06057e-14	1.58367e-14	1.07242e-14	1.49899e-14	1.78050e-14
0.000100000	1.06057e-15	1.58367e-15	1.07242e-15	1.49899e-15	1.78050e-15
1.00000e-05	1.06057e-16	1.58367e-16	1.07242e-16	1.49899e-16	1.78050e-16
1.00000e-06	1.06057e-17	1.58367e-17	1.07242e-17	1.49899e-17	1.78050e-17
1.00000e-07	1.06057e-18	1.58367e-18	1.07242e-18	1.49899e-18	1.78050e-18
1.00000e-08	1.06057e-19	1.58367e-19	1.07242e-19	1.49899e-19	1.78050e-19
1.00000e-09	1.06057e-20	1.58367e-20	1.07242e-20	1.49899e-20	1.78050e-20

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00144341	0.00144925	0.00142932	0.00137703	0.00129638
1.00000e+07	0.000193378	0.000190905	0.000179619	0.000163133	0.000144622
1.00000e+06	1.97315e-05	1.91693e-05	1.76898e-05	1.57965e-05	1.38145e-05
100000.	1.92797e-06	1.86997e-06	1.72181e-06	1.53462e-06	1.34014e-06
10000.0	1.90014e-07	1.84326e-07	1.69708e-07	1.51248e-07	1.32077e-07
1000.00	1.88598e-08	1.82975e-08	1.68479e-08	1.50164e-08	1.31142e-08
100.000	1.87847e-09	1.82256e-09	1.67826e-09	1.49590e-09	1.30647e-09
10.0000	1.87533e-10	1.81963e-10	1.67567e-10	1.49367e-10	1.30458e-10
1.00000	1.87484e-11	1.81919e-11	1.67528e-11	1.49334e-11	1.30430e-11
0.100000	1.87478e-12	1.81914e-12	1.67524e-12	1.49330e-12	1.30428e-12
0.0100000	1.87478e-13	1.81913e-13	1.67523e-13	1.49330e-13	1.30427e-13
0.00100000	1.87478e-14	1.81913e-14	1.67523e-14	1.49330e-14	1.30427e-14
0.000100000	1.87478e-15	1.81913e-15	1.67523e-15	1.49330e-15	1.30427e-15
1.00000e-05	1.87478e-16	1.81913e-16	1.67523e-16	1.49330e-16	1.30427e-16
1.00000e-06	1.87478e-17	1.81913e-17	1.67523e-17	1.49330e-17	1.30427e-17
1.00000e-07	1.87478e-18	1.81913e-18	1.67523e-18	1.49330e-18	1.30427e-18
1.00000e-08	1.87478e-19	1.81913e-19	1.67523e-19	1.49330e-19	1.30427e-19
1.00000e-09	1.87478e-20	1.81913e-20	1.67523e-20	1.49330e-20	1.30427e-20

Pa\K | 3750.00 4000.00

1.00000e+08	0.00119637	0.00108633
1.00000e+07	0.000126132	0.000108786
1.00000e+06	1.19186e-05	1.01909e-05
100000.	1.15501e-06	9.86868e-07
10000.0	1.13836e-07	9.72706e-08
1000.00	1.13039e-08	9.65973e-09
100.000	1.12617e-09	9.62406e-10
10.0000	1.12459e-10	9.61096e-11
1.00000	1.12437e-11	9.60910e-12
0.100000	1.12434e-12	9.60891e-13
0.0100000	1.12434e-13	9.60889e-14
0.00100000	1.12434e-14	9.60889e-15
0.000100000	1.12434e-15	9.60889e-16
1.00000e-05	1.12434e-16	9.60889e-17
1.00000e-06	1.12434e-17	9.60889e-18
1.00000e-07	1.12434e-18	9.60889e-19
1.00000e-08	1.12434e-19	9.60889e-20
1.00000e-09	1.12434e-20	9.60889e-21

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.90699e-79	5.49481e-78	8.79735e-77	1.45627e-75	2.80239e-74
1.00000e+07	1.63275e-75	4.32234e-74	6.47935e-73	1.01310e-71	1.85675e-70
1.00000e+06	8.89129e-72	1.68238e-70	1.97106e-69	2.56360e-68	4.11651e-67
100000.	9.41462e-69	8.38884e-68	6.40599e-67	6.50023e-66	9.33637e-65
10000.0	5.34250e-67	1.80663e-66	9.46327e-66	8.89036e-65	1.40297e-63
1000.00	1.41417e-66	2.83045e-66	1.10799e-65	7.77669e-65	9.48641e-64
100.000	1.87074e-66	2.52766e-66	5.29667e-66	1.71693e-65	8.41860e-65
10.0000	2.31651e-67	4.55816e-68	2.24765e-68	2.23235e-68	3.94534e-68
1.00000	8.88403e-72	6.72016e-72	1.40411e-71	4.18295e-71	1.72067e-70
0.100000	2.39327e-72	1.74821e-72	2.16057e-72	4.09205e-72	1.13706e-71
0.0100000	2.63829e-74	2.35975e-75	8.66581e-76	7.39276e-76	1.17034e-75
0.00100000	4.42632e-79	1.52328e-80	4.42262e-81	3.59583e-81	5.82065e-81
0.000100000	2.54853e-84	1.37627e-85	5.45245e-86	5.61150e-86	1.10490e-85
1.00000e-05	8.30128e-89	7.94863e-90	4.33405e-90	5.59148e-90	1.33784e-89
1.00000e-06	1.60279e-92	2.49897e-93	1.78864e-93	2.83547e-93	8.84041e-93
1.00000e-07	1.39106e-95	3.33197e-96	3.10868e-96	6.29846e-96	2.95134e-95
1.00000e-08	4.55509e-98	1.56588e-98	1.78862e-98	4.25784e-98	2.40005e-97
1.00000e-09	3.56032e-100	1.37704e-100	1.64992e-100	4.04753e-100	2.34415e-99

Pa\K	70.0000	80.0000	90.0000	100.0000	110.0000
1.00000e+08	6.67140e-73	2.14368e-71	1.06779e-69	9.63943e-68	1.67193e-65
1.00000e+07	4.25390e-69	1.33408e-67	6.60475e-66	6.04300e-64	1.07659e-61
1.00000e+06	8.68409e-66	2.63798e-64	1.32626e-62	1.26718e-60	2.34213e-58
100000.	1.97693e-63	6.58975e-62	3.79473e-60	4.05294e-58	7.73255e-56
10000.0	3.54702e-62	1.42815e-60	9.41770e-59	1.03281e-56	1.78098e-54
1000.00	1.93395e-62	6.34195e-61	3.31218e-59	2.74429e-57	3.49170e-55
100.000	6.37825e-64	7.92231e-63	1.78079e-61	8.18161e-60	8.34527e-58
10.0000	1.21555e-67	7.09456e-67	9.71116e-66	4.04884e-64	5.52767e-62
1.00000	1.03398e-69	1.06938e-68	2.49511e-67	1.47199e-65	1.99904e-63
0.100000	4.85758e-71	3.73293e-70	6.70079e-69	3.11031e-67	3.39160e-65
0.0100000	3.30306e-75	1.85480e-74	2.62263e-73	1.02790e-71	1.06482e-69
0.00100000	1.73907e-80	1.07132e-79	1.90758e-78	2.10716e-76	2.83235e-73
0.000100000	4.03663e-85	3.99680e-84	5.79775e-82	8.14113e-79	2.43604e-75
1.00000e-05	1.15893e-89	4.21358e-87	3.95871e-84	7.64034e-81	2.40599e-77
1.00000e-06	7.29039e-91	3.07384e-89	3.81397e-86	7.59014e-83	2.40297e-79
1.00000e-07	9.42647e-94	2.96658e-91	3.79851e-88	7.58499e-85	2.40266e-81
1.00000e-08	9.08466e-96	2.95525e-93	3.79692e-90	7.58447e-87	2.40263e-83
1.00000e-09	9.05012e-98	2.95410e-95	3.79676e-92	7.58442e-89	2.40263e-85

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	4.29912e-63	1.30545e-60	3.59504e-58	1.02500e-55	2.20755e-53
1.00000e+07	2.85691e-59	8.93466e-57	2.52401e-54	7.28239e-52	1.57628e-49
1.00000e+06	6.32396e-56	1.96869e-53	5.46397e-51	1.50165e-48	3.07177e-46
100000.	2.02119e-53	5.81635e-51	1.46297e-48	3.46698e-46	6.07405e-44
10000.0	3.92681e-52	9.24192e-50	1.90813e-47	3.61966e-45	5.16885e-43
1000.00	5.86642e-53	1.12438e-50	2.01837e-48	3.68957e-46	5.40051e-44
100.000	1.43057e-55	3.31768e-53	7.53182e-51	2.22422e-48	5.18666e-46
10.0000	1.42349e-59	5.67227e-57	2.30297e-54	1.51917e-51	7.36362e-49
1.00000	3.47340e-61	7.63211e-59	1.62105e-56	7.38226e-54	3.52080e-51
0.100000	4.83154e-63	8.90940e-61	1.61632e-58	6.72771e-56	3.19836e-53
0.0100000	2.07466e-67	1.37305e-64	1.34924e-61	2.25658e-58	2.06690e-55
0.00100000	5.29336e-70	1.02499e-66	1.27429e-63	2.22260e-60	2.05227e-57
0.000100000	5.11610e-72	1.01774e-68	1.27346e-65	2.22238e-62	2.05191e-59
1.00000e-05	5.10026e-74	1.01715e-70	1.27348e-67	2.22241e-64	2.05189e-61
1.00000e-06	5.09869e-76	1.01709e-72	1.27348e-69	2.22241e-66	2.05189e-63

1.00000e-07	5.09854e-78	1.01709e-74	1.27348e-71	2.22241e-68	2.05189e-65
1.00000e-08	5.09852e-80	1.01709e-76	1.27348e-73	2.22241e-70	2.05189e-67
1.00000e-09	5.09852e-82	1.01709e-78	1.27348e-75	2.22241e-72	2.05189e-69

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	3.47712e-51	4.06624e-49	4.14487e-47	3.05690e-45	1.57992e-43
1.00000e+07	2.47920e-47	2.87173e-45	2.86126e-43	2.04975e-41	1.02543e-39
1.00000e+06	4.53359e-44	4.87539e-42	4.41524e-40	2.85920e-38	1.29250e-36
100000.	7.63017e-42	6.89774e-40	5.08463e-38	2.66711e-36	9.81252e-35
10000.0	5.37452e-41	4.06292e-39	2.50349e-37	1.11840e-35	3.58713e-34
1000.00	6.02338e-42	5.15665e-40	4.04911e-38	2.43350e-36	1.09690e-34
100.000	9.03848e-44	1.26187e-41	1.83615e-39	2.05032e-37	1.87827e-35
10.0000	2.42982e-46	6.32337e-44	1.75126e-41	3.54273e-39	7.21779e-37
1.00000	1.37010e-48	4.46592e-46	1.55988e-43	3.91302e-41	1.07028e-38
0.100000	1.28881e-50	4.41866e-48	1.68344e-45	5.36956e-43	2.63151e-40
0.0100000	1.05435e-52	3.88020e-50	1.47660e-47	4.93287e-45	3.95800e-42
0.00100000	1.04889e-54	3.85402e-52	1.45457e-49	4.81449e-47	4.18143e-44
0.000100000	1.04861e-56	3.85205e-54	1.45250e-51	4.80164e-49	4.20528e-46
1.00000e-05	1.04859e-58	3.85186e-56	1.45229e-53	4.80035e-51	4.20768e-48
1.00000e-06	1.04859e-60	3.85184e-58	1.45227e-55	4.80022e-53	4.20792e-50
1.00000e-07	1.04858e-62	3.85184e-60	1.45227e-57	4.80020e-55	4.20795e-52
1.00000e-08	1.04858e-64	3.85184e-62	1.45227e-59	4.80020e-57	4.20795e-54
1.00000e-09	1.04858e-66	3.85184e-64	1.45227e-61	4.80020e-59	4.20795e-56

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	5.13473e-42	1.45079e-40	2.67992e-39	3.41346e-38	3.63316e-37
1.00000e+07	3.24929e-38	8.84295e-37	1.58633e-35	1.98715e-34	2.08065e-33
1.00000e+06	3.74896e-35	9.10376e-34	1.47008e-32	1.72357e-31	1.69890e-30
100000.	2.39297e-33	4.56973e-32	5.97028e-31	6.22366e-30	5.53432e-29
10000.0	7.90212e-33	1.22293e-31	1.36014e-30	1.25410e-29	9.91039e-29
1000.00	3.17150e-33	4.56815e-32	4.56617e-31	3.75707e-30	2.61961e-29
100.000	9.42294e-34	1.32570e-32	1.26647e-31	9.95222e-31	6.59625e-30
10.0000	1.38499e-34	1.88601e-33	1.75848e-32	1.35158e-31	8.75599e-31
1.00000	1.46558e-35	1.98387e-34	1.84347e-33	1.41258e-32	9.12261e-32
0.100000	1.48921e-36	2.01377e-35	1.87019e-34	1.43234e-33	9.24550e-33
0.0100000	1.49470e-37	2.02024e-36	1.87588e-35	1.43648e-34	9.27089e-34
0.00100000	1.49534e-38	2.02098e-37	1.87653e-36	1.43695e-35	9.27375e-35
0.000100000	1.49540e-39	2.02106e-38	1.87660e-37	1.43700e-36	9.27404e-36
1.00000e-05	1.49541e-40	2.02107e-39	1.87660e-38	1.43700e-37	9.27408e-37
1.00000e-06	1.49541e-41	2.02107e-40	1.87660e-39	1.43700e-38	9.27408e-38
1.00000e-07	1.49541e-42	2.02107e-41	1.87660e-40	1.43700e-39	9.27408e-39
1.00000e-08	1.49541e-43	2.02107e-42	1.87660e-41	1.43700e-40	9.27408e-40
1.00000e-09	1.49541e-44	2.02107e-43	1.87660e-42	1.43700e-41	9.27408e-41

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	3.33903e-36	2.68492e-35	1.91541e-34	6.06868e-24	7.09586e-33
1.00000e+07	1.87957e-32	1.48467e-31	1.03981e-30	7.44854e-22	3.70694e-29
1.00000e+06	1.45034e-29	1.08771e-28	7.26528e-28	6.08216e-21	2.38260e-26
100000.	4.30180e-28	2.96905e-27	1.84354e-26	1.26335e-20	5.36085e-25
10000.0	6.85837e-28	4.22581e-27	2.35004e-26	4.05851e-21	5.55370e-25
1000.00	1.58118e-28	8.40182e-28	3.98950e-27	9.17555e-23	6.75445e-26
100.000	3.76464e-29	1.88044e-28	8.33892e-28	5.11343e-25	1.20429e-26
10.0000	4.88010e-30	2.37832e-29	1.02799e-28	2.24358e-27	1.40513e-27
1.00000	5.06820e-31	2.46192e-30	1.06055e-29	4.25669e-29	1.43935e-28
0.100000	5.13377e-32	2.49241e-31	1.07308e-30	2.57993e-30	1.45464e-29
0.0100000	5.14711e-33	2.49853e-32	1.07556e-31	2.42081e-31	1.45760e-30
0.00100000	5.14861e-34	2.49921e-33	1.07584e-32	2.40563e-32	1.45793e-31
0.000100000	5.14877e-35	2.49928e-34	1.07587e-33	2.40412e-33	1.45797e-32
1.00000e-05	5.14878e-36	2.49929e-35	1.07587e-34	2.40397e-34	1.45797e-33
1.00000e-06	5.14878e-37	2.49929e-36	1.07587e-35	2.40395e-35	1.45797e-34
1.00000e-07	5.14878e-38	2.49929e-37	1.07587e-36	2.40395e-36	1.45797e-35
1.00000e-08	5.14878e-39	2.49929e-38	1.07587e-37	2.40395e-37	1.45797e-36
1.00000e-09	5.14878e-40	2.49929e-39	1.07587e-38	2.40395e-38	1.45797e-37

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	1.27583e-16	3.36262e-11	1.89024e-08	5.89137e-07	3.12842e-06
1.00000e+07	6.45273e-16	4.62412e-11	8.11547e-08	2.03357e-06	7.07851e-06
1.00000e+06	6.33043e-16	1.18245e-11	2.17908e-08	8.00100e-07	2.72551e-06
100000.	3.69534e-16	2.48660e-12	1.72222e-09	7.50371e-08	3.01774e-07
10000.0	4.47400e-17	1.16803e-13	5.16216e-11	3.25885e-09	1.89309e-08
1000.00	7.63901e-19	1.76867e-15	1.30282e-12	1.35424e-10	9.63907e-10
100.000	7.25770e-21	2.76125e-17	3.27192e-14	3.96468e-12	2.70972e-11
10.0000	8.81012e-23	4.08805e-19	4.85799e-16	5.61226e-14	3.60217e-13
1.00000	1.44813e-24	4.62531e-21	4.72414e-18	5.35650e-16	3.50950e-15
0.100000	6.29424e-26	7.32584e-23	4.72054e-20	5.10052e-18	3.41940e-17
0.0100000	5.46420e-27	3.47713e-24	6.85253e-22	5.43172e-20	3.89891e-19

0.00100000	5.38100e-28	3.09249e-25	2.87988e-23	1.01040e-21	9.51594e-21
0.000100000	5.37268e-29	3.05400e-26	2.48489e-24	5.75255e-23	6.61699e-22
1.00000e-05	5.37185e-30	3.05015e-27	2.44550e-25	5.32120e-24	6.32993e-23
1.00000e-06	5.37176e-31	3.04977e-28	2.44156e-26	5.27820e-25	6.30133e-24
1.00000e-07	5.37175e-32	3.04973e-29	2.44117e-27	5.27390e-26	6.29847e-25
1.00000e-08	5.37175e-33	3.04973e-30	2.44113e-28	5.27347e-27	6.29819e-26
1.00000e-09	5.37175e-34	3.04973e-31	2.44113e-29	5.27343e-28	6.29816e-27

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	5.81224e-06	7.60745e-06	9.10410e-06	9.70033e-06	9.73336e-06
1.00000e+07	1.12336e-05	1.44793e-05	1.82489e-05	2.11634e-05	2.26481e-05
1.00000e+06	4.22756e-06	5.23513e-06	6.02728e-06	6.49327e-06	6.63785e-06
100000.	4.91169e-07	5.95609e-07	6.41600e-07	6.49018e-07	6.28287e-07
10000.0	3.42552e-08	4.03130e-08	3.98280e-08	3.61375e-08	3.10565e-08
1000.00	1.68124e-09	1.70466e-09	1.39816e-09	1.04647e-09	7.53998e-10
100.000	3.98762e-11	3.32168e-11	2.28769e-11	1.50982e-11	1.07024e-11
10.0000	4.82623e-13	3.72390e-13	2.51408e-13	1.95148e-13	2.38779e-13
1.00000	4.74440e-15	3.87012e-15	3.62048e-15	6.26183e-15	1.57554e-14
0.100000	5.03628e-17	6.40506e-17	1.55182e-16	4.99384e-16	1.49801e-15
0.0100000	9.45384e-19	3.28202e-18	1.35166e-17	4.87108e-17	1.49050e-16
0.00100000	5.46011e-20	2.97662e-19	1.33207e-18	4.85906e-18	1.48976e-17
0.000100000	5.06673e-21	2.94651e-20	1.33014e-19	4.85787e-19	1.48969e-18
1.00000e-05	5.02776e-22	2.94352e-21	1.32995e-20	4.85775e-20	1.48968e-19
1.00000e-06	5.02387e-23	2.94323e-22	1.32993e-21	4.85774e-21	1.48968e-20
1.00000e-07	5.02348e-24	2.94320e-23	1.32993e-22	4.85774e-22	1.48968e-21
1.00000e-08	5.02344e-25	2.94319e-24	1.32993e-23	4.85774e-23	1.48968e-22
1.00000e-09	5.02344e-26	2.94319e-25	1.32993e-24	4.85774e-24	1.48968e-23

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	9.84712e-06	1.00720e-05	0.00183066	0.00190674	0.00196190
1.00000e+07	2.34347e-05	2.38161e-05	0.000471618	0.000466767	0.000427940
1.00000e+06	6.88028e-06	6.38685e-06	6.49473e-05	5.40391e-05	4.16275e-05
100000.	5.89223e-07	5.39726e-07	4.53795e-06	3.01297e-06	1.89461e-06
10000.0	2.57231e-08	2.09338e-08	1.45730e-07	7.44042e-08	4.39366e-08
1000.00	5.49007e-10	4.37600e-10	2.27742e-09	1.35783e-09	1.51722e-09
100.000	9.74745e-12	1.29033e-11	3.73609e-11	5.89417e-11	1.19583e-10
10.0000	4.50240e-13	9.57828e-13	1.72640e-12	5.12020e-12	1.16418e-11
1.00000	4.00020e-14	9.26382e-14	1.52855e-13	5.04430e-13	1.16108e-12
0.100000	3.95230e-15	9.23382e-15	1.50906e-14	5.03682e-14	1.16077e-13
0.0100000	3.94765e-16	9.23091e-16	1.50713e-15	5.03608e-15	1.16074e-14
0.00100000	3.94720e-17	9.23062e-17	1.50694e-16	5.03600e-16	1.16074e-15
0.000100000	3.94715e-18	9.23060e-18	1.50692e-17	5.03600e-17	1.16074e-16
1.00000e-05	3.94715e-19	9.23059e-19	1.50692e-18	5.03600e-18	1.16074e-17
1.00000e-06	3.94715e-20	9.23059e-20	1.50692e-19	5.03600e-19	1.16074e-18
1.00000e-07	3.94715e-21	9.23059e-21	1.50692e-20	5.03600e-20	1.16074e-19
1.00000e-08	3.94715e-22	9.23059e-22	1.50692e-21	5.03600e-21	1.16074e-20
1.00000e-09	3.94715e-23	9.23059e-23	1.50692e-22	5.03600e-22	1.16074e-21

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00194750	0.00184581	0.00167089	0.00145698	0.00123808
1.00000e+07	0.000362214	0.000288301	0.000221258	0.000167418	0.000126980
1.00000e+06	2.98476e-05	2.05940e-05	1.42375e-05	1.02139e-05	7.75864e-06
100000.	1.16251e-06	7.74827e-07	6.00108e-07	5.27579e-07	4.93795e-07
10000.0	3.45237e-08	3.54140e-08	3.93828e-08	4.29036e-08	4.47453e-08
1000.00	2.18117e-09	2.99229e-09	3.70071e-09	4.18684e-09	4.42930e-09
100.000	2.04959e-10	2.93797e-10	3.67786e-10	4.17709e-10	4.42512e-10
10.0000	2.03678e-11	2.93272e-11	3.67567e-11	4.17616e-11	4.42472e-11
1.00000	2.03553e-12	2.93221e-12	3.67545e-12	4.17607e-12	4.42469e-12
0.100000	2.03541e-13	2.93216e-13	3.67543e-13	4.17606e-13	4.42468e-13
0.0100000	2.03540e-14	2.93215e-14	3.67543e-14	4.17606e-14	4.42468e-14
0.00100000	2.03539e-15	2.93215e-15	3.67543e-15	4.17606e-15	4.42468e-15
0.000100000	2.03539e-16	2.93215e-16	3.67543e-16	4.17606e-16	4.42468e-16
1.00000e-05	2.03539e-17	2.93215e-17	3.67543e-17	4.17606e-17	4.42468e-17
1.00000e-06	2.03539e-18	2.93215e-18	3.67543e-18	4.17606e-18	4.42468e-18
1.00000e-07	2.03539e-19	2.93215e-19	3.67543e-19	4.17606e-19	4.42468e-19
1.00000e-08	2.03539e-20	2.93215e-20	3.67543e-20	4.17606e-20	4.42468e-20
1.00000e-09	2.03539e-21	2.93215e-21	3.67543e-21	4.17606e-21	4.42468e-21

Pa\K	3750.00	4000.00
1.00000e+08	0.00103655	0.000862471
1.00000e+07	9.76096e-05	7.65393e-05
1.00000e+06	6.24782e-06	5.26790e-06
100000.	4.69504e-07	4.43948e-07
10000.0	4.48026e-08	4.34214e-08
1000.00	4.46068e-09	4.33393e-09
100.000	4.45891e-10	4.33322e-10

10.0000	4.45875e-11	4.33316e-11
1.00000	4.45873e-12	4.33315e-12
0.100000	4.45873e-13	4.33315e-13
0.0100000	4.45873e-14	4.33315e-14
0.00100000	4.45873e-15	4.33315e-15
0.000100000	4.45873e-16	4.33315e-16
1.00000e-05	4.45873e-17	4.33315e-17
1.00000e-06	4.45873e-18	4.33315e-18
1.00000e-07	4.45873e-19	4.33315e-19
1.00000e-08	4.45873e-20	4.33315e-20
1.00000e-09	4.45873e-21	4.33315e-21

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.93006e-76	1.12773e-73	5.69331e-72	1.25140e-70	1.91241e-69
1.00000e+07	5.85778e-68	1.93410e-65	6.74546e-64	1.12352e-62	1.37204e-61
1.00000e+06	2.51609e-60	4.97219e-58	1.36133e-56	1.95371e-55	2.14933e-54
100000.	3.14717e-53	5.18349e-51	1.28988e-49	1.72207e-48	1.77941e-47
10000.0	2.04870e-46	2.29156e-44	4.19496e-43	4.31215e-42	3.54126e-41
1000.00	1.72645e-40	6.68593e-39	6.34287e-38	4.07360e-37	2.34920e-36
100.000	3.62638e-36	5.69547e-35	3.77594e-34	2.05241e-33	1.11848e-32
10.0000	1.25842e-32	1.78910e-31	1.10746e-30	5.65280e-30	2.92970e-29
1.00000	2.10896e-29	1.86225e-28	8.57159e-28	3.52920e-27	1.54933e-26
0.100000	6.93569e-27	3.98439e-26	1.47800e-25	5.28425e-25	2.09439e-24
0.0100000	7.77912e-25	3.66845e-24	1.20860e-23	3.92646e-23	1.42892e-22
0.00100000	4.07089e-23	1.30911e-22	3.34522e-22	8.94277e-22	2.76687e-21
0.000100000	5.44863e-22	1.18742e-21	2.43304e-21	5.50762e-21	1.48268e-20
1.00000e-05	1.75885e-21	1.85525e-21	2.31453e-21	3.61287e-21	7.28958e-21
1.00000e-06	2.84217e-22	1.18614e-22	9.88350e-23	1.25649e-22	2.34984e-22
1.00000e-07	6.12757e-24	2.57115e-24	2.40135e-24	3.57013e-24	8.49693e-24
1.00000e-08	2.21776e-25	1.26810e-25	1.42546e-25	2.45429e-25	6.72249e-25
1.00000e-09	1.74861e-26	1.11986e-26	1.31847e-26	2.33548e-26	6.53796e-26

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	2.55072e-68	3.49388e-67	5.67695e-66	1.20758e-64	3.32758e-63
1.00000e+07	1.51205e-60	1.75007e-59	2.44466e-58	4.54168e-57	1.10554e-55
1.00000e+06	2.18781e-53	2.37518e-52	3.14380e-51	5.56957e-50	1.29643e-48
100000.	1.70997e-46	1.75939e-45	2.21606e-44	3.74388e-43	8.25325e-42
10000.0	2.77805e-40	2.40271e-39	2.63928e-38	4.00150e-37	7.80742e-36
1000.00	1.42681e-35	1.06840e-34	1.16063e-33	1.86839e-32	3.67020e-31
100.000	7.08815e-32	6.16989e-31	8.31237e-30	1.55411e-28	3.12053e-27
10.0000	1.80202e-28	1.55701e-27	2.07460e-26	3.62423e-25	6.31750e-24
1.00000	8.40228e-26	6.67528e-25	8.38805e-24	1.34933e-22	2.07703e-21
0.100000	1.05428e-23	7.98980e-23	9.80795e-22	1.53771e-20	2.26093e-19
0.0100000	6.64885e-22	4.70536e-21	5.48505e-20	8.15328e-19	1.11138e-17
0.00100000	1.11994e-20	7.16341e-20	8.14382e-19	1.21487e-17	1.61129e-16
0.000100000	5.33179e-20	3.18576e-19	3.79320e-18	6.03871e-17	8.03481e-16
1.00000e-05	2.14910e-20	1.50371e-19	3.41446e-18	7.89089e-17	1.19021e-15
1.00000e-06	9.67562e-22	4.50367e-20	2.64016e-18	7.57576e-17	1.21479e-15
1.00000e-07	2.14667e-22	3.85868e-20	2.56667e-18	7.53407e-17	1.21643e-15
1.00000e-08	1.74449e-22	3.80555e-20	2.55964e-18	7.52989e-17	1.21659e-15
1.00000e-09	1.70825e-22	3.80037e-20	2.55894e-18	7.52947e-17	1.21661e-15

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.05490e-61	3.42722e-60	1.05187e-58	2.99653e-57	7.68394e-56
1.00000e+07	3.10764e-54	8.94672e-53	2.43115e-51	6.11613e-50	1.38307e-48
1.00000e+06	3.48747e-47	9.60784e-46	2.49837e-44	6.00178e-43	1.29344e-41
100000.	2.06829e-40	5.19727e-39	1.20835e-37	2.53474e-36	4.68365e-35
10000.0	1.65216e-34	3.34111e-33	6.05621e-32	9.67041e-31	1.35001e-29
1000.00	7.14707e-30	1.25050e-28	1.90189e-27	2.50831e-26	2.87674e-25
100.000	5.65074e-26	8.66664e-25	1.11148e-23	1.19972e-22	1.10205e-21
10.0000	9.41156e-23	1.14759e-21	1.14877e-20	9.61153e-20	6.86099e-19
1.00000	2.66308e-20	2.76962e-19	2.36906e-18	1.70621e-17	1.05826e-16
0.100000	2.71838e-18	2.61381e-17	2.04245e-16	1.32878e-15	7.36576e-15
0.0100000	1.21023e-16	1.03528e-15	7.11046e-15	4.03689e-14	1.94687e-13
0.00100000	1.65413e-15	1.30779e-14	8.20425e-14	4.22306e-13	1.83714e-12
0.000100000	7.89132e-15	5.80824e-14	3.33993e-13	1.56238e-12	6.15137e-12
1.00000e-05	1.20077e-14	8.72868e-14	4.87657e-13	2.20220e-12	8.35704e-12
1.00000e-06	1.25014e-14	9.13520e-14	5.09997e-13	2.29562e-12	8.67492e-12
1.00000e-07	1.25483e-14	9.17616e-14	5.12294e-13	2.30530e-12	8.70794e-12
1.00000e-08	1.25530e-14	9.18025e-14	5.12524e-13	2.30627e-12	8.71125e-12
1.00000e-09	1.25534e-14	9.18066e-14	5.12547e-13	2.30637e-12	8.71158e-12

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.76532e-54	3.62440e-53	6.85866e-52	1.17551e-50	1.81933e-49

1.00000e+07	2.79840e-47	5.05524e-46	8.37995e-45	1.25754e-43	1.70694e-42
1.00000e+06	2.48672e-40	4.25293e-39	6.62186e-38	9.27131e-37	1.16662e-35
100000.	7.59752e-34	1.08226e-32	1.37508e-31	1.55344e-30	1.56718e-29
10000.0	1.65463e-28	1.79163e-27	1.73340e-26	1.50479e-25	1.17932e-24
1000.00	2.88946e-24	2.55947e-23	2.01499e-22	1.41765e-21	8.96802e-21
100.000	8.72595e-21	6.03039e-20	3.68139e-19	2.00717e-18	9.87445e-18
10.0000	4.26046e-18	2.34099e-17	1.15474e-16	5.17464e-16	2.12718e-15
1.00000	5.76079e-16	2.79423e-15	1.22204e-14	4.86453e-14	1.77613e-13
0.100000	3.54905e-14	1.51152e-13	5.77085e-13	1.99871e-12	6.34371e-12
0.0100000	8.16248e-13	3.03223e-12	1.01358e-11	3.08709e-11	8.65481e-11
0.00100000	6.92164e-12	2.30404e-11	6.88736e-11	1.87377e-10	4.69158e-10
0.000100000	2.09556e-11	6.31628e-11	1.71510e-10	4.25763e-10	9.77977e-10
1.00000e-05	2.74649e-11	8.00338e-11	2.10691e-10	5.08608e-10	1.13954e-09
1.00000e-06	2.83836e-11	8.23576e-11	2.15952e-10	5.19456e-10	1.16018e-09
1.00000e-07	2.84790e-11	8.25984e-11	2.16496e-10	5.20575e-10	1.16231e-09
1.00000e-08	2.84885e-11	8.26226e-11	2.16551e-10	5.20687e-10	1.16252e-09
1.00000e-09	2.84895e-11	8.26250e-11	2.16556e-10	5.20698e-10	1.16254e-09

Pa\K | 220.000 230.000 240.000 250.000 260.000

1.00000e+08	2.53327e-48	3.30196e-47	3.82770e-46	3.83404e-45	3.40538e-44
1.00000e+07	2.09573e-41	2.41896e-40	2.52353e-39	2.30483e-38	1.88541e-37
1.00000e+06	1.32230e-34	1.38985e-33	1.31991e-32	1.11045e-31	8.41003e-31
100000.	1.42253e-28	1.17830e-27	8.87496e-27	6.07310e-26	3.80205e-25
10000.0	8.40091e-24	5.47623e-23	3.27594e-22	1.80499e-21	9.19703e-21
1000.00	5.13284e-20	2.67382e-19	1.27489e-18	5.59548e-18	2.27306e-17
100.000	4.42456e-17	1.82105e-16	6.93635e-16	2.46140e-15	8.18438e-15
10.0000	8.08438e-15	2.85845e-14	9.45053e-14	2.93393e-13	8.58364e-13
1.00000	5.98721e-13	1.87411e-12	5.47578e-12	1.50061e-11	3.87433e-11
0.100000	1.86115e-11	5.08504e-11	1.30217e-10	3.14273e-10	7.18280e-10
0.0100000	2.25232e-10	5.47912e-10	1.25338e-09	2.71007e-09	5.56360e-09
0.00100000	1.09129e-09	2.37706e-09	4.88202e-09	9.51024e-09	1.76628e-08
0.000100000	2.09940e-09	4.24684e-09	8.15180e-09	1.49348e-08	2.62453e-08
1.00000e-05	2.39307e-09	4.74881e-09	8.96453e-09	1.61889e-08	2.80996e-08
1.00000e-06	2.42976e-09	4.81019e-09	9.06198e-09	1.63366e-08	2.83144e-08
1.00000e-07	2.43352e-09	4.81647e-09	9.07193e-09	1.63516e-08	2.83362e-08
1.00000e-08	2.43390e-09	4.81710e-09	9.07292e-09	1.63532e-08	2.83384e-08
1.00000e-09	2.43394e-09	4.81717e-09	9.07302e-09	1.63533e-08	2.83386e-08

Pa\K | 270.000 280.000 290.000 300.000 310.000

1.00000e+08	2.69671e-43	1.90561e-42	1.20614e-41	6.75117e-29	3.53871e-40
1.00000e+07	1.38917e-36	9.22304e-36	5.53861e-35	5.59656e-25	1.50710e-33
1.00000e+06	5.76191e-30	3.57398e-29	2.01383e-28	2.84650e-20	4.87824e-27
100000.	2.18602e-24	1.15615e-23	5.63756e-23	4.07121e-17	1.06191e-21
10000.0	4.34827e-20	1.91250e-19	7.84492e-19	2.97678e-15	1.08108e-17
1000.00	8.59138e-17	3.03610e-16	1.00770e-15	1.81345e-13	9.34664e-15
100.000	2.56276e-14	7.58938e-14	2.13335e-13	9.60367e-12	1.45900e-12
10.0000	2.37413e-12	6.22618e-12	1.55245e-11	2.76672e-10	8.38246e-11
1.00000	9.46324e-11	2.19520e-10	4.85345e-10	4.12159e-09	2.08085e-09
0.100000	1.56114e-09	3.23848e-09	6.43273e-09	2.99247e-08	2.25346e-08
0.0100000	1.08881e-08	2.03862e-08	3.66377e-08	9.77261e-08	1.05883e-07
0.00100000	3.14174e-08	5.37343e-08	8.86810e-08	1.50040e-07	2.19657e-07
0.000100000	4.44272e-08	7.27046e-08	1.15384e-07	1.56910e-07	2.67832e-07
1.00000e-05	4.70658e-08	7.63323e-08	1.20219e-07	1.56136e-07	2.75745e-07
1.00000e-06	4.73669e-08	7.67406e-08	1.20756e-07	1.55991e-07	2.76606e-07
1.00000e-07	4.73975e-08	7.67820e-08	1.20811e-07	1.55975e-07	2.76693e-07
1.00000e-08	4.74005e-08	7.67862e-08	1.20816e-07	1.55974e-07	2.76702e-07
1.00000e-09	4.74008e-08	7.67866e-08	1.20817e-07	1.55974e-07	2.76703e-07

Pa\K | 400.000 500.000 600.000 700.000 800.000

1.00000e+08	5.38382e-19	2.75794e-13	6.86004e-11	1.16464e-08	2.89237e-07
1.00000e+07	1.15166e-14	9.98621e-10	5.99055e-08	4.19477e-07	1.67146e-06
1.00000e+06	3.58119e-12	3.08992e-08	9.54605e-07	3.29904e-06	5.69881e-06
100000.	4.62726e-11	4.83707e-08	1.14383e-06	4.33171e-06	7.51923e-06
10000.0	7.57374e-11	2.43653e-08	4.82717e-07	2.76533e-06	7.22912e-06
1000.00	2.67613e-10	3.34207e-08	6.18864e-07	4.51826e-06	1.76205e-05
100.000	4.81566e-09	2.68726e-07	3.66449e-06	2.13542e-05	6.65393e-05
10.0000	6.30733e-08	2.06191e-06	1.84700e-05	7.10372e-05	0.000154957
1.00000	4.75703e-07	8.82213e-06	4.88224e-05	0.000128972	0.000218868
0.100000	1.78059e-06	1.90833e-05	7.29773e-05	0.000155729	0.000238093
0.0100000	3.28409e-06	2.48398e-05	8.05841e-05	0.000161061	0.000240851
0.00100000	3.85643e-06	2.60999e-05	8.17039e-05	0.000161659	0.000241121
0.000100000	3.93513e-06	2.62436e-05	8.18170e-05	0.000161717	0.000241148
1.00000e-05	3.94168e-06	2.62573e-05	8.18282e-05	0.000161723	0.000241150
1.00000e-06	3.94227e-06	2.62587e-05	8.18293e-05	0.000161723	0.000241151
1.00000e-07	3.94233e-06	2.62588e-05	8.18295e-05	0.000161724	0.000241151
1.00000e-08	3.94234e-06	2.62588e-05	8.18295e-05	0.000161724	0.000241151
1.00000e-09	3.94234e-06	2.62588e-05	8.18295e-05	0.000161724	0.000241151

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	8.65417e-07	1.35776e-06	1.84499e-06	2.10232e-06	2.11614e-06
1.00000e+07	4.76410e-06	1.12132e-05	2.18531e-05	3.18992e-05	3.77969e-05
1.00000e+06	9.62671e-06	2.01302e-05	4.18523e-05	6.44808e-05	7.83743e-05
100000.	1.16056e-05	2.04109e-05	3.72698e-05	5.86219e-05	7.62413e-05
10000.0	1.57868e-05	3.42631e-05	6.49937e-05	9.76665e-05	0.000117178
1000.00	4.81093e-05	9.71706e-05	0.000149572	0.000182995	0.000189456
100.000	0.000137625	0.000208997	0.000254447	0.000265424	0.000250898
10.0000	0.000239584	0.000294996	0.000313798	0.000303558	0.000276533
1.00000	0.000288194	0.000324296	0.000329564	0.000312264	0.000281981
0.100000	0.000298554	0.000329146	0.000331783	0.000313400	0.000282673
0.0100000	0.000299756	0.000329656	0.000332014	0.000313521	0.000282747
0.00100000	0.000299872	0.000329709	0.000332040	0.000313536	0.000282756
0.000100000	0.000299884	0.000329714	0.000332043	0.000313537	0.000282757
1.00000e-05	0.000299885	0.000329715	0.000332043	0.000313538	0.000282757
1.00000e-06	0.000299886	0.000329715	0.000332043	0.000313538	0.000282757
1.00000e-07	0.000299886	0.000329715	0.000332043	0.000313538	0.000282757
1.00000e-08	0.000299886	0.000329715	0.000332043	0.000313538	0.000282757
1.00000e-09	0.000299886	0.000329715	0.000332043	0.000313538	0.000282757

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	2.07049e-06	2.06707e-06	0.00143445	0.00149250	0.00152163
1.00000e+07	4.04460e-05	4.15968e-05	0.00133993	0.00122969	0.00112168
1.00000e+06	8.61644e-05	9.26808e-05	0.000558288	0.000544739	0.000604731
100000.	8.79985e-05	9.76022e-05	0.000244808	0.000327986	0.000464504
10000.0	0.000122378	0.000121887	0.000175306	0.000269786	0.000426941
1000.00	0.000179000	0.000164784	0.000177508	0.000265938	0.000423082
100.000	0.000225320	0.000199981	0.000191107	0.000269242	0.000423421
10.0000	0.000243759	0.000213560	0.000196276	0.000270304	0.000423555
1.00000	0.000247551	0.000216286	0.000197251	0.000270474	0.000423574
0.100000	0.000248025	0.000216621	0.000197369	0.000270493	0.000423576
0.0100000	0.000248076	0.000216656	0.000197381	0.000270495	0.000423577
0.00100000	0.000248081	0.000216659	0.000197382	0.000270495	0.000423577
0.000100000	0.000248082	0.000216660	0.000197382	0.000270495	0.000423577
1.00000e-05	0.000248082	0.000216660	0.000197382	0.000270495	0.000423577
1.00000e-06	0.000248082	0.000216660	0.000197382	0.000270495	0.000423577
1.00000e-07	0.000248082	0.000216660	0.000197382	0.000270495	0.000423577
1.00000e-08	0.000248082	0.000216660	0.000197382	0.000270495	0.000423577
1.00000e-09	0.000248082	0.000216660	0.000197382	0.000270495	0.000423577

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00151496	0.00147527	0.00141634	0.00135536	0.00130536
1.00000e+07	0.00105091	0.00102277	0.00102599	0.00104811	0.00108132
1.00000e+06	0.000703729	0.000808946	0.000902018	0.000979174	0.00104447
100000.	0.000622693	0.000767846	0.000883595	0.000971845	0.00104202
10000.0	0.000603650	0.000760006	0.000880965	0.000971216	0.00104204
1000.00	0.000601620	0.000759266	0.000880789	0.000971225	0.00104209
100.000	0.000601550	0.000759226	0.000880786	0.000971233	0.00104210
10.0000	0.000601556	0.000759224	0.000880786	0.000971235	0.00104210
1.00000	0.000601556	0.000759224	0.000880786	0.000971235	0.00104210
0.100000	0.000601557	0.000759224	0.000880786	0.000971235	0.00104210
0.0100000	0.000601557	0.000759224	0.000880786	0.000971235	0.00104210
0.00100000	0.000601557	0.000759224	0.000880786	0.000971235	0.00104210
0.000100000	0.000601557	0.000759224	0.000880786	0.000971235	0.00104210
1.00000e-05	0.000601557	0.000759224	0.000880786	0.000971235	0.00104210
1.00000e-06	0.000601557	0.000759224	0.000880786	0.000971235	0.00104210
1.00000e-07	0.000601557	0.000759224	0.000880786	0.000971235	0.00104210
1.00000e-08	0.000601557	0.000759224	0.000880786	0.000971235	0.00104210
1.00000e-09	0.000601557	0.000759224	0.000880786	0.000971235	0.00104210

Pa\K	3750.00	4000.00
1.00000e+08	0.00127267	0.00125822
1.00000e+07	0.00112176	0.00116742
1.00000e+06	0.00110349	0.00116018
100000.	0.00110307	0.00116061
10000.0	0.00110325	0.00116082
1000.00	0.00110330	0.00116086
100.000	0.00110331	0.00116087
10.0000	0.00110331	0.00116087
1.00000	0.00110331	0.00116087
0.100000	0.00110331	0.00116087
0.0100000	0.00110331	0.00116087
0.00100000	0.00110331	0.00116087
0.000100000	0.00110331	0.00116087
1.00000e-05	0.00110331	0.00116087

1.00000e-06		0.00110331	0.00116087
1.00000e-07		0.00110331	0.00116087
1.00000e-08		0.00110331	0.00116087
1.00000e-09		0.00110331	0.00116087

PAH1+H
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Pa\K		20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08		2.23264e-84	6.31872e-83	9.52252e-82	1.42648e-80	2.39109e-79
1.00000e+07		2.08315e-80	5.51061e-79	7.79492e-78	1.09854e-76	1.73441e-75
1.00000e+06		1.17286e-76	2.06655e-75	2.16032e-74	2.38223e-73	3.05011e-72
100000.		1.01615e-73	7.50580e-73	4.48499e-72	3.24124e-71	2.94350e-70
10000.0		2.73285e-72	5.12567e-72	1.69118e-71	1.02064e-70	1.03238e-69
1000.00		2.36764e-71	1.28412e-70	6.11344e-70	3.55154e-69	2.87838e-68
100.000		8.19878e-70	3.33882e-69	1.41704e-68	7.38356e-68	4.88361e-67
10.0000		2.57326e-68	1.24924e-67	5.60442e-67	2.90879e-66	1.85909e-65
1.00000		9.90485e-67	3.34628e-66	1.09754e-65	4.39383e-65	2.25923e-64
0.100000		5.69353e-66	7.19626e-66	1.18331e-65	2.72754e-65	8.83954e-65
0.0100000		3.00698e-67	4.23332e-68	2.07849e-68	2.21912e-68	4.23608e-68
0.00100000		2.80043e-71	1.83632e-72	7.82468e-73	8.41169e-73	1.70236e-72
0.000100000		1.43486e-75	1.55288e-76	9.18628e-77	1.26115e-76	3.12352e-76
1.00000e-05		4.57423e-79	8.83356e-80	7.20673e-80	1.24148e-79	3.73670e-79
1.00000e-06		8.73063e-82	2.74084e-82	2.93050e-82	6.17803e-82	2.32041e-81
1.00000e-07		7.43843e-84	3.58718e-84	4.99755e-84	1.33209e-83	6.80839e-83
1.00000e-08		2.40719e-85	1.67159e-85	2.85303e-85	8.88423e-85	5.28332e-84
1.00000e-09		1.87633e-86	1.46772e-86	2.62843e-86	8.42800e-86	5.12886e-85

Pa\K		70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08		4.75673e-78	1.21766e-76	4.59383e-75	3.03860e-73	3.93204e-71
1.00000e+07		3.25171e-74	7.84727e-73	2.79370e-71	1.74947e-69	2.15872e-67
1.00000e+06		4.75383e-71	9.71985e-70	2.98231e-68	1.64134e-66	1.82458e-64
100000.		3.43575e-69	5.51600e-68	1.41326e-66	7.20403e-65	8.44171e-63
10000.0		1.91964e-68	7.27765e-67	5.36292e-65	7.00647e-63	1.46676e-60
1000.00		4.10909e-67	1.24075e-65	7.31531e-64	7.33551e-62	1.15064e-59
100.000		4.41335e-66	6.34894e-65	1.85011e-63	1.28895e-61	2.14520e-59
10.0000		1.60386e-64	2.22604e-63	6.56496e-62	4.77292e-60	7.99786e-58
1.00000		1.62783e-63	1.96516e-62	5.25267e-61	3.50101e-59	5.31290e-57
0.100000		4.29881e-64	3.70295e-63	7.37166e-62	3.76527e-60	4.49072e-58
0.0100000		1.40695e-67	9.13726e-67	1.47470e-65	6.53154e-64	7.50667e-62
0.00100000		6.14221e-72	4.47787e-71	9.46148e-70	1.03972e-67	8.39058e-65
0.000100000		1.39404e-75	1.68771e-74	1.83508e-72	1.71862e-69	4.69718e-66
1.00000e-05		2.35843e-78	1.04612e-76	6.36655e-74	1.26950e-70	4.36522e-67
1.00000e-06		2.78287e-80	4.60078e-78	5.31828e-75	1.22260e-71	4.33121e-68
1.00000e-07		1.51052e-81	4.01714e-79	5.20430e-76	1.21776e-72	4.32780e-69
1.00000e-08		1.38412e-82	3.95478e-80	5.19254e-77	1.21728e-73	4.32746e-70
1.00000e-09		1.37134e-83	3.94845e-81	5.19136e-78	1.21723e-74	4.32743e-71

Pa\K		120.000	130.000	140.000	150.000	160.000
1.00000e+08		7.77036e-69	1.90325e-66	4.34003e-64	1.19888e-61	2.61830e-59
1.00000e+07		4.09096e-65	9.66980e-63	2.13588e-60	5.80862e-58	1.25588e-55
1.00000e+06		3.17081e-62	6.99155e-60	1.45645e-57	3.85926e-55	8.22866e-53
100000.		1.70404e-60	4.51933e-58	1.14872e-55	3.14968e-53	6.63717e-51
10000.0		3.95526e-58	1.14637e-55	2.93661e-53	6.97958e-51	1.26146e-48
1000.00		2.38543e-57	5.66713e-55	1.26518e-52	2.94546e-50	5.58297e-48
100.000		5.14276e-57	1.63550e-54	4.85383e-52	1.97428e-49	5.85500e-47
10.0000		1.72315e-55	4.60062e-53	1.09526e-50	4.11336e-48	1.18915e-45
1.00000		1.02032e-54	2.42158e-52	5.13056e-50	1.80264e-47	4.98681e-45
0.100000		6.95741e-56	1.37757e-53	2.52933e-51	8.38664e-49	2.37837e-46
0.0100000		1.38627e-59	5.51200e-57	3.55452e-54	4.01653e-51	2.72133e-48
0.00100000		1.32906e-61	2.50833e-58	3.24658e-55	4.25847e-52	2.91819e-49
0.000100000		1.13223e-62	2.46501e-59	3.32909e-56	4.36149e-53	2.97041e-50
1.00000e-05		1.11329e-63	2.46348e-60	3.34074e-57	4.37399e-54	2.97643e-51
1.00000e-06		1.11143e-64	2.46343e-61	3.34201e-58	4.37530e-55	2.97705e-52
1.00000e-07		1.11125e-65	2.46343e-62	3.34214e-59	4.37543e-56	2.97711e-53
1.00000e-08		1.11123e-66	2.46343e-63	3.34215e-60	4.37544e-57	2.97712e-54
1.00000e-09		1.11123e-67	2.46343e-64	3.34215e-61	4.37544e-58	2.97712e-55

Pa\K		170.000	180.000	190.000	200.000	210.000
1.00000e+08		4.35635e-57	5.89928e-55	8.43496e-53	9.41564e-51	7.65925e-49
1.00000e+07		2.07881e-53	2.83452e-51	4.17360e-49	4.86046e-47	4.16738e-45
1.00000e+06		1.35775e-50	1.89564e-48	3.01099e-46	3.94966e-44	3.99494e-42
100000.		1.04242e-48	1.29701e-46	1.73960e-44	2.32406e-42	3.08796e-40
10000.0		1.67914e-46	1.65009e-44	1.37169e-42	9.34986e-41	7.25122e-39
1000.00		8.24941e-46	9.97174e-44	1.37053e-41	2.12368e-39	3.86045e-37
100.000		1.25397e-44	2.29678e-42	5.49825e-40	1.34529e-37	3.17789e-35
10.0000		2.61548e-43	5.53306e-41	1.69473e-38	5.03138e-36	1.38074e-33

1.00000	1.07006e-42	2.30015e-40	7.57516e-38	2.59263e-35	9.41488e-33
0.100000	5.63890e-44	1.49672e-41	7.41529e-39	5.02730e-36	4.74956e-33
0.0100000	1.07310e-45	3.18395e-43	1.75124e-40	2.49271e-37	5.47269e-34
0.00100000	1.11519e-46	2.99224e-44	1.37645e-41	2.14498e-38	5.49706e-35
0.000100000	1.12766e-47	2.99053e-45	1.34401e-42	2.10990e-39	5.49850e-36
1.00000e-05	1.12909e-48	2.99068e-46	1.34083e-43	2.10640e-40	5.49864e-37
1.00000e-06	1.12924e-49	2.99070e-47	1.34052e-44	2.10605e-41	5.49865e-38
1.00000e-07	1.12925e-50	2.99070e-48	1.34049e-45	2.10601e-42	5.49865e-39
1.00000e-08	1.12925e-51	2.99070e-49	1.34048e-46	2.10601e-43	5.49865e-40
1.00000e-09	1.12925e-52	2.99070e-50	1.34048e-47	2.10601e-44	5.49865e-41

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	3.15743e-47	1.35154e-45	3.01887e-44	3.53120e-43	3.35163e-42
1.00000e+07	1.75748e-43	7.80662e-42	1.75721e-40	2.01334e-39	1.86887e-38
1.00000e+06	1.85241e-40	9.23667e-39	2.13008e-37	2.34059e-36	2.07947e-35
100000.	1.85495e-38	1.14748e-36	2.71448e-35	2.85838e-34	2.43193e-33
10000.0	4.62986e-37	3.19841e-35	7.82039e-34	8.26569e-33	7.07143e-32
1000.00	2.93180e-35	2.17657e-33	5.53071e-32	5.88974e-31	5.05652e-30
100.000	2.63846e-33	1.97972e-31	4.83671e-30	5.09556e-29	4.33008e-28
10.0000	1.29134e-31	9.13155e-30	1.93178e-28	1.96289e-27	1.61400e-26
1.00000	1.35516e-30	9.13966e-29	1.61549e-27	1.56489e-26	1.23319e-25
0.100000	2.81734e-30	1.97031e-28	3.14023e-27	2.95239e-26	2.26664e-25
0.0100000	3.08012e-30	2.20772e-28	3.45308e-27	3.22848e-26	2.46672e-25
0.00100000	3.10707e-30	2.23440e-28	3.48770e-27	3.25887e-26	2.48863e-25
0.000100000	3.10977e-30	2.23710e-28	3.49120e-27	3.26194e-26	2.49084e-25
1.00000e-05	3.11004e-30	2.23737e-28	3.49155e-27	3.26225e-26	2.49107e-25
1.00000e-06	3.11007e-30	2.23740e-28	3.49158e-27	3.26228e-26	2.49109e-25
1.00000e-07	3.11007e-30	2.23740e-28	3.49159e-27	3.26228e-26	2.49109e-25
1.00000e-08	3.11007e-30	2.23740e-28	3.49159e-27	3.26228e-26	2.49109e-25
1.00000e-09	3.11007e-30	2.23740e-28	3.49159e-27	3.26228e-26	2.49109e-25

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	2.70960e-41	1.88168e-40	1.13998e-39	4.02527e-29	2.92372e-38
1.00000e+07	1.47732e-37	1.00236e-36	5.92845e-36	9.96829e-25	1.44545e-34
1.00000e+06	1.57510e-34	1.02390e-33	5.80157e-33	2.69978e-21	1.29790e-31
100000.	1.76975e-32	1.10763e-31	6.05991e-31	1.94688e-19	1.27904e-29
10000.0	5.19354e-31	3.29291e-30	1.83368e-29	1.88174e-19	4.08104e-28
1000.00	3.71194e-29	2.33938e-28	1.28590e-27	5.86910e-21	2.71202e-26
100.000	3.14547e-27	1.96196e-26	1.06735e-25	1.45953e-21	2.20412e-24
10.0000	1.13449e-25	6.85858e-25	3.62154e-24	4.50836e-21	7.07181e-23
1.00000	8.31169e-25	4.83088e-24	2.45801e-23	1.66065e-21	4.48421e-22
0.100000	1.48946e-24	8.45648e-24	4.21042e-23	3.23163e-22	7.38962e-22
0.0100000	1.61349e-24	9.12238e-24	4.52462e-23	2.80088e-22	7.88828e-22
0.00100000	1.62702e-24	9.19466e-24	4.55859e-23	2.77184e-22	7.94180e-22
0.000100000	1.62838e-24	9.20196e-24	4.56202e-23	2.76901e-22	7.94720e-22
1.00000e-05	1.62852e-24	9.20269e-24	4.56236e-23	2.76872e-22	7.94774e-22
1.00000e-06	1.62853e-24	9.20276e-24	4.56240e-23	2.76869e-22	7.94779e-22
1.00000e-07	1.62853e-24	9.20277e-24	4.56240e-23	2.76869e-22	7.94780e-22
1.00000e-08	1.62853e-24	9.20277e-24	4.56240e-23	2.76869e-22	7.94780e-22
1.00000e-09	1.62853e-24	9.20277e-24	4.56240e-23	2.76869e-22	7.94780e-22

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	5.57916e-18	2.08157e-12	4.03552e-10	9.44075e-09	1.04143e-07
1.00000e+07	1.86628e-14	2.02932e-09	1.23626e-07	7.81488e-07	1.80032e-06
1.00000e+06	1.33270e-12	3.63825e-08	1.57656e-06	5.81756e-06	9.73803e-06
100000.	2.22468e-12	1.44436e-08	1.17004e-06	6.35337e-06	1.18833e-05
10000.0	1.51823e-13	7.37975e-10	1.95365e-07	2.63841e-06	7.44270e-06
1000.00	2.42218e-15	3.96900e-11	4.37694e-08	1.08694e-06	3.78757e-06
100.000	1.45448e-16	5.69933e-12	1.13052e-08	3.19505e-07	1.06655e-06
10.0000	4.87801e-17	8.82654e-13	1.69546e-09	4.53634e-08	1.42869e-07
1.00000	2.96338e-17	1.16515e-13	1.66117e-10	4.40517e-09	1.47275e-08
0.100000	2.51724e-17	3.31048e-14	1.80084e-11	4.77496e-10	2.09212e-09
0.0100000	2.46823e-17	2.46228e-14	3.88471e-12	1.02699e-10	8.55434e-10
0.00100000	2.46253e-17	2.37331e-14	2.47995e-12	6.57422e-11	7.33009e-10
0.000100000	2.46188e-17	2.36405e-14	2.33934e-12	6.20813e-11	7.20920e-10
1.00000e-05	2.46181e-17	2.36311e-14	2.32530e-12	6.17188e-11	7.19725e-10
1.00000e-06	2.46180e-17	2.36301e-14	2.32390e-12	6.16827e-11	7.19607e-10
1.00000e-07	2.46180e-17	2.36300e-14	2.32376e-12	6.16791e-11	7.19595e-10
1.00000e-08	2.46180e-17	2.36300e-14	2.32374e-12	6.16787e-11	7.19593e-10
1.00000e-09	2.46180e-17	2.36300e-14	2.32374e-12	6.16787e-11	7.19593e-10

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	5.61347e-07	1.11191e-06	1.60393e-06	1.92854e-06	2.07725e-06
1.00000e+07	2.90536e-06	5.13605e-06	9.29896e-06	1.35479e-05	1.63992e-05
1.00000e+06	1.30131e-05	1.65802e-05	2.18582e-05	2.74180e-05	3.14864e-05
100000.	1.62129e-05	1.95564e-05	2.24034e-05	2.47845e-05	2.64991e-05

10000.0	1.13418e-05	1.32445e-05	1.37475e-05	1.34841e-05	1.28494e-05
1000.00	5.57793e-06	5.62322e-06	4.87168e-06	4.02810e-06	3.44053e-06
100.000	1.32934e-06	1.11610e-06	8.59369e-07	7.48026e-07	8.66506e-07
10.0000	1.66109e-07	1.45007e-07	1.58568e-07	2.64547e-07	5.32188e-07
1.00000	2.08426e-08	3.42007e-08	8.38512e-08	2.15374e-07	4.99090e-07
0.100000	6.42210e-09	2.32709e-08	7.65661e-08	2.10622e-07	4.95901e-07
0.0100000	4.99634e-09	2.21946e-08	7.58540e-08	2.10160e-07	4.95591e-07
0.00100000	4.85535e-09	2.20887e-08	7.57842e-08	2.10114e-07	4.95560e-07
0.000100000	4.84145e-09	2.20783e-08	7.57773e-08	2.10110e-07	4.95557e-07
1.00000e-05	4.84008e-09	2.20772e-08	7.57767e-08	2.10109e-07	4.95557e-07
1.00000e-06	4.83994e-09	2.20771e-08	7.57766e-08	2.10109e-07	4.95557e-07
1.00000e-07	4.83993e-09	2.20771e-08	7.57766e-08	2.10109e-07	4.95557e-07
1.00000e-08	4.83992e-09	2.20771e-08	7.57766e-08	2.10109e-07	4.95557e-07
1.00000e-09	4.83992e-09	2.20771e-08	7.57766e-08	2.10109e-07	4.95557e-07

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	2.11426e-06	1.98715e-06	0.000953756	0.00106332	0.00114219
1.00000e+07	1.79900e-05	1.84951e-05	0.00150186	0.00149508	0.00138876
1.00000e+06	3.42102e-05	3.60604e-05	0.00133515	0.00119098	0.000997869
100000.	2.76885e-05	2.86319e-05	0.000814647	0.000616103	0.000442092
10000.0	1.22013e-05	1.19221e-05	0.000259839	0.000161257	0.000121453
1000.00	3.30385e-06	3.77685e-06	4.46830e-05	3.87928e-05	5.73181e-05
100.000	1.30105e-06	2.17796e-06	1.08909e-05	2.25170e-05	4.98413e-05
10.0000	1.06040e-06	1.98916e-06	7.22352e-06	2.07784e-05	4.90781e-05
1.00000	1.03667e-06	1.97005e-06	6.85482e-06	2.06020e-05	4.90022e-05
0.100000	1.03437e-06	1.96817e-06	6.81822e-06	2.05844e-05	4.89947e-05
0.0100000	1.03415e-06	1.96799e-06	6.81459e-06	2.05827e-05	4.89940e-05
0.00100000	1.03413e-06	1.96797e-06	6.81423e-06	2.05825e-05	4.89939e-05
0.000100000	1.03413e-06	1.96797e-06	6.81420e-06	2.05825e-05	4.89939e-05
1.00000e-05	1.03413e-06	1.96797e-06	6.81419e-06	2.05825e-05	4.89939e-05
1.00000e-06	1.03413e-06	1.96797e-06	6.81419e-06	2.05825e-05	4.89939e-05
1.00000e-07	1.03413e-06	1.96797e-06	6.81419e-06	2.05825e-05	4.89939e-05
1.00000e-08	1.03413e-06	1.96797e-06	6.81419e-06	2.05825e-05	4.89939e-05
1.00000e-09	1.03413e-06	1.96797e-06	6.81419e-06	2.05825e-05	4.89939e-05

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00116700	0.00113132	0.00104855	0.000942570	0.000835563
1.00000e+07	0.00120775	0.00100814	0.000833594	0.000701938	0.000612676
1.00000e+06	0.000786535	0.000615001	0.000504612	0.000448314	0.000429482
100000.	0.000321526	0.000273043	0.000276409	0.000306566	0.000346237
10000.0	0.000127905	0.000167061	0.000221534	0.000279088	0.000332832
1000.00	9.76101e-05	0.000153210	0.000215216	0.000276203	0.000331524
100.000	9.44082e-05	0.000151828	0.000214606	0.000275931	0.000331404
10.0000	9.40925e-05	0.000151694	0.000214547	0.000275905	0.000331392
1.00000	9.40615e-05	0.000151681	0.000214542	0.000275902	0.000331391
0.100000	9.40584e-05	0.000151679	0.000214541	0.000275902	0.000331391
0.0100000	9.40581e-05	0.000151679	0.000214541	0.000275902	0.000331391
0.00100000	9.40581e-05	0.000151679	0.000214541	0.000275902	0.000331391
0.000100000	9.40581e-05	0.000151679	0.000214541	0.000275902	0.000331391
1.00000e-05	9.40581e-05	0.000151679	0.000214541	0.000275902	0.000331391
1.00000e-06	9.40581e-05	0.000151679	0.000214541	0.000275902	0.000331391
1.00000e-07	9.40581e-05	0.000151679	0.000214541	0.000275902	0.000331391
1.00000e-08	9.40581e-05	0.000151679	0.000214541	0.000275902	0.000331391
1.00000e-09	9.40581e-05	0.000151679	0.000214541	0.000275902	0.000331391

Pa\K	3750.00	4000.00
1.00000e+08	0.000741465	0.000665987
1.00000e+07	0.000557552	0.000527000
1.00000e+06	0.000432531	0.000446291
100000.	0.000385997	0.000421611
10000.0	0.000379660	0.000418772
1000.00	0.000379085	0.000418538
100.000	0.000379034	0.000418519
10.0000	0.000379029	0.000418517
1.00000	0.000379028	0.000418517
0.100000	0.000379028	0.000418517
0.0100000	0.000379028	0.000418517
0.00100000	0.000379028	0.000418517
0.000100000	0.000379028	0.000418517
1.00000e-05	0.000379028	0.000418517
1.00000e-06	0.000379028	0.000418517
1.00000e-07	0.000379028	0.000418517
1.00000e-08	0.000379028	0.000418517
1.00000e-09	0.000379028	0.000418517

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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 | 310.000

1.00000e+08	N/A	N/A	N/A	1.97354e-25	N/A
1.00000e+07	N/A	N/A	N/A	1.24819e-22	N/A
1.00000e+06	N/A	N/A	N/A	1.92708e-20	N/A
100000.	N/A	N/A	N/A	2.65176e-19	N/A
10000.0	N/A	N/A	N/A	5.03868e-19	N/A
1000.00	N/A	N/A	N/A	2.53072e-19	N/A
100.000	N/A	N/A	N/A	5.56939e-19	N/A
10.0000	N/A	N/A	N/A	8.13111e-19	N/A
1.00000	N/A	N/A	N/A	1.29713e-18	N/A
0.100000	N/A	N/A	N/A	1.56563e-18	N/A
0.0100000	N/A	N/A	N/A	1.31217e-18	N/A
0.00100000	N/A	N/A	N/A	1.21566e-18	N/A
0.000100000	N/A	N/A	N/A	1.20489e-18	N/A
1.00000e-05	N/A	N/A	N/A	1.20385e-18	N/A
1.00000e-06	N/A	N/A	N/A	1.20374e-18	N/A
1.00000e-07	N/A	N/A	N/A	1.20373e-18	N/A
1.00000e-08	N/A	N/A	N/A	1.20373e-18	N/A
1.00000e-09	N/A	N/A	N/A	1.20373e-18	N/A

Pa\K | 400.000 | 500.000 | 600.000 | 700.000 | 800.000

1.00000e+08	1.19458e-19	6.35629e-14	2.01054e-11	1.23992e-08	3.57492e-07
1.00000e+07	1.76414e-15	2.66228e-10	1.83991e-08	1.69285e-07	1.21043e-06
1.00000e+06	2.80953e-13	8.43291e-09	3.54833e-07	1.31453e-06	2.51703e-06
100000.	8.65296e-13	4.86372e-09	3.08433e-07	1.54604e-06	2.89769e-06
10000.0	1.13535e-13	3.42924e-10	5.84292e-08	6.78870e-07	1.85005e-06
1000.00	3.94394e-15	2.11933e-11	1.33213e-08	2.82189e-07	9.42593e-07
100.000	1.20957e-15	3.22984e-12	3.43342e-09	8.29831e-08	2.66545e-07
10.0000	1.22902e-15	6.79378e-13	5.23268e-10	1.19783e-08	3.75415e-08
1.00000	1.58374e-15	2.96649e-13	6.05033e-11	1.34247e-09	5.47165e-09
0.100000	1.70814e-15	2.53169e-13	1.49817e-11	2.93705e-10	2.14920e-09
0.0100000	1.69496e-15	2.46391e-13	1.03689e-11	1.85793e-10	1.79401e-09
0.00100000	1.68903e-15	2.45273e-13	9.87013e-12	1.74328e-10	1.75663e-09
0.000100000	1.68822e-15	2.45124e-13	9.81769e-12	1.73160e-10	1.75289e-09
1.00000e-05	1.68813e-15	2.45108e-13	9.81241e-12	1.73045e-10	1.75252e-09
1.00000e-06	1.68812e-15	2.45106e-13	9.81188e-12	1.73033e-10	1.75249e-09
1.00000e-07	1.68812e-15	2.45106e-13	9.81183e-12	1.73032e-10	1.75248e-09
1.00000e-08	1.68812e-15	2.45106e-13	9.81183e-12	1.73032e-10	1.75248e-09
1.00000e-09	1.68812e-15	2.45106e-13	9.81183e-12	1.73032e-10	1.75248e-09

Pa\K | 900.000 | 1000.00 | 1100.00 | 1200.00 | 1300.00

1.00000e+08	1.06352e-06	1.84583e-06	3.00332e-06	3.75216e-06	3.63174e-06
1.00000e+07	4.13859e-06	9.95335e-06	1.98212e-05	2.97397e-05	3.61995e-05
1.00000e+06	5.16692e-06	1.30039e-05	3.11667e-05	5.13580e-05	6.42045e-05
100000.	4.49015e-06	7.70373e-06	1.45687e-05	2.34305e-05	3.18264e-05
10000.0	2.99336e-06	4.46569e-06	6.95335e-06	1.04132e-05	1.45929e-05
1000.00	1.44457e-06	1.88410e-06	2.60041e-06	3.66630e-06	5.46555e-06
100.000	3.51548e-07	4.25991e-07	6.58853e-07	1.26441e-06	2.80365e-06
10.0000	5.44175e-08	1.03956e-07	2.93108e-07	8.76619e-07	2.42844e-06
1.00000	1.64687e-08	6.54316e-08	2.51699e-07	8.35150e-07	2.39012e-06
0.100000	1.24503e-08	6.14485e-08	2.47577e-07	8.31118e-07	2.38644e-06
0.0100000	1.20212e-08	6.10424e-08	2.47172e-07	8.30728e-07	2.38609e-06

0.00100000	1.19772e-08	6.10021e-08	2.47133e-07	8.30690e-07	2.38605e-06
0.000100000	1.19728e-08	6.09981e-08	2.47129e-07	8.30686e-07	2.38605e-06
1.00000e-05	1.19724e-08	6.09977e-08	2.47128e-07	8.30686e-07	2.38605e-06
1.00000e-06	1.19724e-08	6.09977e-08	2.47128e-07	8.30686e-07	2.38605e-06
1.00000e-07	1.19724e-08	6.09977e-08	2.47128e-07	8.30686e-07	2.38605e-06
1.00000e-08	1.19724e-08	6.09977e-08	2.47128e-07	8.30686e-07	2.38605e-06
1.00000e-09	1.19724e-08	6.09977e-08	2.47128e-07	8.30686e-07	2.38605e-06

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	3.08542e-06	2.62618e-06	0.00116348	0.00126195	0.00132729
1.00000e+07	3.97290e-05	4.18891e-05	0.00128110	0.00126553	0.00123203
1.00000e+06	7.25871e-05	8.08047e-05	0.000586822	0.000632450	0.000728907
100000.	4.11507e-05	5.31862e-05	0.000231463	0.000331364	0.000481140
10000.0	2.01131e-05	2.83570e-05	0.000104927	0.000212293	0.000395238
1000.00	9.04494e-06	1.61555e-05	6.79792e-05	0.000186172	0.000380844
100.000	6.36152e-06	1.36586e-05	6.24195e-05	0.000182985	0.000379306
10.0000	6.02291e-06	1.33702e-05	6.18214e-05	0.000182667	0.000379158
1.00000	5.98946e-06	1.33424e-05	6.17619e-05	0.000182636	0.000379144
0.100000	5.98628e-06	1.33398e-05	6.17561e-05	0.000182633	0.000379142
0.0100000	5.98597e-06	1.33395e-05	6.17555e-05	0.000182633	0.000379142
0.00100000	5.98594e-06	1.33395e-05	6.17554e-05	0.000182633	0.000379142
0.000100000	5.98594e-06	1.33395e-05	6.17554e-05	0.000182633	0.000379142
1.00000e-05	5.98594e-06	1.33395e-05	6.17554e-05	0.000182633	0.000379142
1.00000e-06	5.98594e-06	1.33395e-05	6.17554e-05	0.000182633	0.000379142
1.00000e-07	5.98594e-06	1.33395e-05	6.17554e-05	0.000182633	0.000379142
1.00000e-08	5.98594e-06	1.33395e-05	6.17554e-05	0.000182633	0.000379142
1.00000e-09	5.98594e-06	1.33395e-05	6.17554e-05	0.000182633	0.000379142

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00135772	0.00135674	0.00133305	0.00129623	0.00125283
1.00000e+07	0.00122209	0.00123211	0.00124484	0.00124852	0.00123847
1.00000e+06	0.000849684	0.000969806	0.00107093	0.00114185	0.00117894
100000.	0.000668100	0.000854768	0.00100717	0.00111044	0.00116530
10000.0	0.000618699	0.000830667	0.000996771	0.00110647	0.00116406
1000.00	0.000612044	0.000827946	0.000995776	0.00110617	0.00116401
100.000	0.000611392	0.000827698	0.000995694	0.00110615	0.00116401
10.0000	0.000611331	0.000827676	0.000995687	0.00110615	0.00116401
1.00000	0.000611325	0.000827674	0.000995687	0.00110614	0.00116401
0.100000	0.000611325	0.000827674	0.000995686	0.00110614	0.00116401
0.0100000	0.000611325	0.000827674	0.000995686	0.00110614	0.00116401
0.00100000	0.000611325	0.000827674	0.000995686	0.00110614	0.00116401
0.000100000	0.000611325	0.000827674	0.000995686	0.00110614	0.00116401
1.00000e-05	0.000611325	0.000827674	0.000995686	0.00110614	0.00116401
1.00000e-06	0.000611325	0.000827674	0.000995686	0.00110614	0.00116401
1.00000e-07	0.000611325	0.000827674	0.000995686	0.00110614	0.00116401
1.00000e-08	0.000611325	0.000827674	0.000995686	0.00110614	0.00116401
1.00000e-09	0.000611325	0.000827674	0.000995686	0.00110614	0.00116401

Pa\K	3750.00	4000.00
1.00000e+08	0.00120595	0.00115672
1.00000e+07	0.00121414	0.00117717
1.00000e+06	0.00118473	0.00116523
100000.	0.00117988	0.00116431
10000.0	0.00117971	0.00116450
1000.00	0.00117974	0.00116455
100.000	0.00117975	0.00116456
10.0000	0.00117975	0.00116456
1.00000	0.00117975	0.00116456
0.100000	0.00117975	0.00116456
0.0100000	0.00117975	0.00116456
0.00100000	0.00117975	0.00116456
0.000100000	0.00117975	0.00116456
1.00000e-05	0.00117975	0.00116456
1.00000e-06	0.00117975	0.00116456
1.00000e-07	0.00117975	0.00116456
1.00000e-08	0.00117975	0.00116456
1.00000e-09	0.00117975	0.00116456

PAH10+CH3

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.34523e-77	3.52815e-76	4.52042e-75	5.38234e-74	6.84361e-73
1.00000e+07	1.28382e-73	3.21552e-72	3.94451e-71	4.50317e-70	5.49403e-69
1.00000e+06	8.54552e-70	1.56486e-68	1.50537e-67	1.40538e-66	1.44130e-65
100000.	1.22227e-66	1.07717e-65	6.48445e-65	4.24871e-64	3.26902e-63
10000.0	9.16679e-65	2.19865e-64	5.59639e-64	1.92826e-63	9.49231e-63

1000.00	4.54408e-65	1.15091e-64	6.86880e-64	6.18699e-63	7.94094e-62
100.000	4.09277e-63	7.41399e-62	6.66828e-61	5.64962e-60	5.41655e-59
10.0000	8.04663e-60	9.07882e-59	6.17069e-58	4.21499e-57	3.36511e-56
1.00000	3.57750e-57	2.10684e-56	8.70854e-56	3.85488e-55	2.05062e-54
0.100000	1.12020e-55	2.68973e-55	6.89711e-55	2.17829e-54	8.81704e-54
0.0100000	2.44284e-55	1.92128e-55	2.20609e-55	3.73073e-55	9.11982e-55
0.00100000	3.39334e-57	4.43363e-58	2.22159e-58	2.36624e-58	4.38441e-58
0.000100000	7.41630e-61	8.43285e-62	4.64552e-62	5.65495e-62	1.24047e-61
1.00000e-05	2.83444e-64	5.25692e-65	3.89443e-65	5.98924e-65	1.75054e-64
1.00000e-06	5.49378e-67	1.64247e-67	1.59445e-67	3.06185e-67	1.27994e-66
1.00000e-07	4.68943e-69	2.15130e-69	2.72121e-69	6.70786e-69	4.22253e-68
1.00000e-08	1.51759e-70	1.00204e-70	1.55281e-70	4.49622e-70	3.37783e-69
1.00000e-09	1.18276e-71	8.79718e-72	1.43044e-71	4.26833e-71	3.29132e-70

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	9.99771e-72	1.83519e-70	4.86399e-69	2.20905e-67	1.90698e-65
1.00000e+07	7.70422e-68	1.35798e-66	3.46038e-65	1.51680e-63	1.27397e-61
1.00000e+06	1.73276e-64	2.65983e-63	5.99477e-62	2.37242e-60	1.85231e-58
100000.	3.08434e-62	3.84722e-61	7.28737e-60	2.52940e-58	1.83044e-56
10000.0	7.72698e-62	1.29032e-60	4.62503e-59	3.12415e-57	3.43792e-55
1000.00	1.45392e-60	3.90138e-59	1.59269e-57	1.02126e-55	1.05884e-53
100.000	6.79822e-58	1.37311e-56	5.95223e-55	6.33695e-53	1.42799e-50
10.0000	3.61693e-55	6.48405e-54	2.61184e-52	2.62932e-50	5.48730e-48
1.00000	1.47867e-53	1.76892e-52	4.72171e-51	3.16755e-49	4.71580e-47
0.100000	5.00122e-53	4.77059e-52	1.01035e-50	5.32163e-49	6.38951e-47
0.0100000	3.40888e-54	2.29114e-53	3.61607e-52	1.50410e-50	1.55685e-48
0.00100000	1.39689e-57	8.91987e-57	1.60890e-55	1.13385e-53	3.48562e-51
0.000100000	5.28815e-61	6.56324e-60	4.47997e-58	1.62866e-55	1.58688e-52
1.00000e-05	1.40348e-63	5.79416e-62	1.55868e-59	1.17044e-56	1.44695e-53
1.00000e-06	2.37279e-65	2.69500e-63	1.29980e-60	1.12422e-57	1.43291e-54
1.00000e-07	1.43887e-66	2.36266e-64	1.27178e-61	1.11947e-58	1.43150e-55
1.00000e-08	1.33783e-67	2.32668e-65	1.26889e-62	1.11900e-59	1.43136e-56
1.00000e-09	1.32746e-68	2.32302e-66	1.26860e-63	1.11895e-60	1.43134e-57

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.46840e-63	3.89239e-61	5.66779e-59	9.55040e-57	1.25010e-54
1.00000e+07	1.61445e-59	2.50851e-57	3.61099e-55	6.10700e-53	8.04990e-51
1.00000e+06	2.22687e-56	3.34848e-54	4.71543e-52	8.16898e-50	1.11830e-47
100000.	2.11029e-54	3.13837e-52	4.44214e-50	8.33549e-48	1.27377e-45
10000.0	4.87382e-53	7.46382e-51	1.01969e-48	1.38370e-46	1.63034e-44
1000.00	1.58454e-51	3.07012e-49	5.81489e-47	1.30204e-44	2.15730e-42
100.000	3.80339e-48	1.04720e-45	2.25055e-43	5.20892e-41	8.19659e-39
10.0000	1.31145e-45	3.22900e-43	6.23485e-41	1.34983e-38	2.04129e-36
1.00000	8.64265e-45	1.84371e-42	3.37063e-40	8.84067e-38	1.74952e-35
0.100000	9.78973e-45	1.89035e-42	3.33430e-40	1.02030e-37	2.52022e-35
0.0100000	2.30648e-46	5.14265e-44	1.20337e-41	5.82429e-39	2.36518e-36
0.00100000	1.75693e-48	1.07557e-45	4.69068e-43	2.98488e-40	1.47817e-37
0.000100000	1.28631e-49	9.44820e-47	4.38930e-44	2.79417e-41	1.38466e-38
1.00000e-05	1.24640e-50	9.33652e-48	4.36375e-45	2.77668e-42	1.37541e-39
1.00000e-06	1.24243e-51	9.32550e-49	4.36124e-46	2.77494e-43	1.37448e-40
1.00000e-07	1.24203e-52	9.32440e-50	4.36099e-47	2.77477e-44	1.37439e-41
1.00000e-08	1.24199e-53	9.32429e-51	4.36097e-48	2.77475e-45	1.37438e-42
1.00000e-09	1.24199e-54	9.32428e-52	4.36096e-49	2.77475e-46	1.37438e-43

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.22309e-52	9.18786e-51	6.21039e-49	2.78232e-47	8.38733e-46
1.00000e+07	7.94570e-49	6.05002e-47	4.15685e-45	1.85551e-43	5.48505e-42
1.00000e+06	1.15821e-45	9.48003e-44	7.10133e-42	3.19364e-40	9.01300e-39
100000.	1.51358e-43	1.52627e-41	1.46053e-39	6.81076e-38	1.80316e-36
10000.0	1.80887e-42	2.42733e-40	3.88510e-38	1.95473e-36	4.98692e-35
1000.00	2.52799e-40	2.23768e-38	1.94828e-36	9.59244e-35	2.91215e-33
100.000	8.83320e-37	6.92842e-35	4.62943e-33	1.84753e-31	4.59404e-30
10.0000	2.17622e-34	1.78990e-32	1.27253e-30	4.37405e-29	8.62035e-28
1.00000	2.57138e-33	3.37201e-31	3.67065e-29	1.12914e-27	1.88724e-26
0.100000	4.94293e-33	1.07290e-30	2.10668e-28	5.77959e-27	8.62717e-26
0.0100000	8.20903e-34	4.23255e-31	3.42878e-28	8.85959e-27	1.26503e-25
0.00100000	6.85818e-35	5.31584e-32	3.64837e-28	9.34581e-27	1.32655e-25
0.000100000	6.64714e-36	5.45023e-33	3.67171e-28	9.39717e-27	1.33302e-25
1.00000e-05	6.62517e-37	5.46399e-34	3.67405e-28	9.40234e-27	1.33367e-25
1.00000e-06	6.62297e-38	5.46537e-35	3.67429e-28	9.40285e-27	1.33374e-25
1.00000e-07	6.62274e-39	5.46551e-36	3.67431e-28	9.40291e-27	1.33375e-25
1.00000e-08	6.62272e-40	5.46553e-37	3.67432e-28	9.40291e-27	1.33375e-25
1.00000e-09	6.62272e-41	5.46553e-38	3.67432e-28	9.40291e-27	1.33375e-25

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.73078e-44	3.27557e-43	4.60949e-42	4.68923e-41	4.00891e-40

1.00000e+07	1.10213e-40	2.02182e-39	2.76545e-38	2.73943e-37	2.28086e-36
1.00000e+06	1.69720e-37	2.87379e-36	3.66103e-35	3.41796e-34	2.68951e-33
100000.	3.11468e-35	4.70472e-34	5.41957e-33	4.70302e-32	3.46112e-31
10000.0	8.18166e-34	1.15425e-32	1.25668e-31	1.05438e-30	7.56243e-30
1000.00	5.91767e-32	1.06869e-30	1.43957e-29	1.43551e-28	1.20794e-27
100.000	7.81157e-29	1.11337e-27	1.21935e-26	1.05845e-25	7.82227e-25
10.0000	1.18996e-26	1.32616e-25	1.17958e-24	8.73785e-24	5.57293e-23
1.00000	2.28305e-25	2.21550e-24	1.75468e-23	1.17610e-22	6.82302e-22
0.100000	9.57009e-25	8.52459e-24	6.26826e-23	3.91996e-22	2.12642e-21
0.0100000	1.35882e-24	1.17536e-23	8.42321e-23	5.14348e-22	2.72848e-21
0.00100000	1.41874e-24	1.22239e-23	8.73014e-23	5.31397e-22	2.81062e-21
0.000100000	1.42503e-24	1.22731e-23	8.76216e-23	5.33171e-22	2.81914e-21
1.00000e-05	1.42566e-24	1.22781e-23	8.76538e-23	5.33349e-22	2.81999e-21
1.00000e-06	1.42572e-24	1.22786e-23	8.76570e-23	5.33367e-22	2.82008e-21
1.00000e-07	1.42573e-24	1.22786e-23	8.76573e-23	5.33368e-22	2.82009e-21
1.00000e-08	1.42573e-24	1.22786e-23	8.76573e-23	5.33369e-22	2.82009e-21
1.00000e-09	1.42573e-24	1.22786e-23	8.76573e-23	5.33369e-22	2.82009e-21

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	2.96541e-39	1.91366e-38	1.09018e-37	9.69288e-29	2.53714e-36
1.00000e+07	1.64331e-35	1.03285e-34	5.72964e-34	1.90791e-24	1.26298e-32
1.00000e+06	1.83536e-32	1.09472e-31	5.77250e-31	6.02046e-21	1.15394e-29
100000.	2.21974e-30	1.25070e-29	6.26230e-29	5.46257e-19	1.14780e-27
10000.0	4.76293e-29	2.65924e-28	1.33304e-27	6.83705e-19	2.54087e-26
1000.00	8.81257e-27	5.62457e-26	3.17783e-25	5.75043e-20	7.33082e-24
100.000	5.03167e-24	2.84599e-23	1.43140e-22	3.42860e-19	2.64683e-21
10.0000	3.11505e-22	1.54358e-21	6.85413e-21	1.64675e-18	1.00850e-19
1.00000	3.48153e-21	1.58178e-20	6.46873e-20	2.57916e-18	8.18124e-19
0.100000	1.01650e-20	4.33753e-20	1.67069e-19	9.96416e-19	1.89202e-18
0.0100000	1.27733e-20	5.34574e-20	2.02246e-19	6.03110e-19	2.21934e-18
0.00100000	1.31220e-20	5.47793e-20	2.06774e-19	5.75845e-19	2.26006e-18
0.000100000	1.31581e-20	5.49157e-20	2.07240e-19	5.73219e-19	2.26424e-18
1.00000e-05	1.31617e-20	5.49294e-20	2.07287e-19	5.72953e-19	2.26466e-18
1.00000e-06	1.31620e-20	5.49308e-20	2.07291e-19	5.72926e-19	2.26470e-18
1.00000e-07	1.31621e-20	5.49309e-20	2.07292e-19	5.72924e-19	2.26470e-18
1.00000e-08	1.31621e-20	5.49309e-20	2.07292e-19	5.72924e-19	2.26470e-18
1.00000e-09	1.31621e-20	5.49309e-20	2.07292e-19	5.72924e-19	2.26470e-18

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	6.40005e-18	2.46254e-12	4.93718e-10	1.26317e-08	1.53937e-07
1.00000e+07	3.15303e-14	3.60676e-09	2.22179e-07	1.41844e-06	3.38917e-06
1.00000e+06	2.87735e-12	7.27455e-08	3.02990e-06	1.10694e-05	1.84622e-05
100000.	5.51464e-12	3.30975e-08	2.38004e-06	1.23934e-05	2.28520e-05
10000.0	3.93249e-13	1.76801e-09	4.15513e-07	5.26838e-06	1.45382e-05
1000.00	7.02932e-15	9.27268e-11	9.32852e-08	2.17844e-06	7.43399e-06
100.000	2.18956e-15	1.39613e-11	2.41316e-08	6.42140e-07	2.10960e-06
10.0000	4.62659e-15	3.50003e-12	3.72647e-09	9.37969e-08	2.96836e-07
1.00000	6.28709e-15	1.80001e-12	4.51089e-10	1.06689e-08	3.65759e-08
0.100000	5.39385e-15	1.26618e-12	9.09533e-11	1.65525e-09	6.38186e-09
0.0100000	4.98029e-15	1.05872e-12	4.01367e-11	5.10494e-10	2.57546e-09
0.00100000	4.90160e-15	1.00981e-12	3.26549e-11	3.67747e-10	2.13591e-09
0.000100000	4.89048e-15	1.00246e-12	3.17531e-11	3.52429e-10	2.09110e-09
1.00000e-05	4.88920e-15	1.00162e-12	3.16604e-11	3.50927e-10	2.08675e-09
1.00000e-06	4.88907e-15	1.00154e-12	3.16514e-11	3.50782e-10	2.08632e-09
1.00000e-07	4.88906e-15	1.00153e-12	3.16505e-11	3.50767e-10	2.08628e-09
1.00000e-08	4.88906e-15	1.00153e-12	3.16504e-11	3.50766e-10	2.08627e-09
1.00000e-09	4.88906e-15	1.00153e-12	3.16504e-11	3.50766e-10	2.08627e-09

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	7.72956e-07	1.50256e-06	2.17656e-06	2.64507e-06	2.80544e-06
1.00000e+07	5.74732e-06	1.00716e-05	1.74854e-05	2.46672e-05	2.90985e-05
1.00000e+06	2.48568e-05	3.24060e-05	4.39108e-05	5.55058e-05	6.28478e-05
100000.	3.10622e-05	3.76637e-05	4.36923e-05	4.87413e-05	5.18566e-05
10000.0	2.19733e-05	2.56944e-05	2.68717e-05	2.65124e-05	2.51555e-05
1000.00	1.08603e-05	1.09704e-05	9.55899e-06	7.85878e-06	6.47359e-06
100.000	2.62818e-06	2.21830e-06	1.67469e-06	1.31948e-06	1.29851e-06
10.0000	3.53180e-07	2.97669e-07	2.62439e-07	3.30123e-07	6.12702e-07
1.00000	4.99383e-08	5.91388e-08	9.92634e-08	2.23057e-07	5.41983e-07
0.100000	1.34792e-08	3.12123e-08	8.12876e-08	2.11897e-07	5.34872e-07
0.0100000	9.04266e-09	2.80487e-08	7.93872e-08	2.10768e-07	5.34169e-07
0.00100000	8.56135e-09	2.77234e-08	7.91982e-08	2.10658e-07	5.34100e-07
0.000100000	8.51364e-09	2.76916e-08	7.91798e-08	2.10647e-07	5.34094e-07
1.00000e-05	8.50900e-09	2.76885e-08	7.91780e-08	2.10646e-07	5.34093e-07
1.00000e-06	8.50854e-09	2.76882e-08	7.91778e-08	2.10646e-07	5.34093e-07
1.00000e-07	8.50850e-09	2.76882e-08	7.91778e-08	2.10646e-07	5.34093e-07
1.00000e-08	8.50849e-09	2.76882e-08	7.91778e-08	2.10646e-07	5.34093e-07
1.00000e-09	8.50849e-09	2.76882e-08	7.91778e-08	2.10646e-07	5.34093e-07

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	2.61817e-06	2.05390e-06	0.000826063	0.000900543	0.000956428
1.00000e+07	3.10097e-05	3.06790e-05	0.00121981	0.00120027	0.00112917
1.00000e+06	6.67658e-05	6.88383e-05	0.000971597	0.000894587	0.000808834
100000.	5.35493e-05	5.46517e-05	0.000576593	0.000474827	0.000413549
10000.0	2.34946e-05	2.23798e-05	0.000189759	0.000154015	0.000190050
1000.00	5.82510e-06	6.39102e-06	4.17894e-05	6.98183e-05	0.000146575
100.000	1.82629e-06	3.32406e-06	1.87783e-05	5.90749e-05	0.000141699
10.0000	1.34413e-06	2.97492e-06	1.63067e-05	5.79752e-05	0.000141217
1.00000	1.29566e-06	2.93998e-06	1.60598e-05	5.78663e-05	0.000141169
0.100000	1.29087e-06	2.93654e-06	1.60353e-05	5.78555e-05	0.000141165
0.0100000	1.29040e-06	2.93620e-06	1.60329e-05	5.78544e-05	0.000141164
0.00100000	1.29035e-06	2.93617e-06	1.60326e-05	5.78543e-05	0.000141164
0.000100000	1.29034e-06	2.93617e-06	1.60326e-05	5.78543e-05	0.000141164
1.00000e-05	1.29034e-06	2.93617e-06	1.60326e-05	5.78543e-05	0.000141164
1.00000e-06	1.29034e-06	2.93617e-06	1.60326e-05	5.78543e-05	0.000141164
1.00000e-07	1.29034e-06	2.93617e-06	1.60326e-05	5.78543e-05	0.000141164
1.00000e-08	1.29034e-06	2.93617e-06	1.60326e-05	5.78543e-05	0.000141164
1.00000e-09	1.29034e-06	2.93617e-06	1.60326e-05	5.78543e-05	0.000141164

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.000979006	0.000964194	0.000920491	0.000862172	0.000801440
1.00000e+07	0.00103391	0.000940180	0.000861890	0.000801954	0.000757020
1.00000e+06	0.000732073	0.000684255	0.000666408	0.000666720	0.000672090
100000.	0.000411819	0.000460268	0.000527502	0.000588515	0.000631702
10000.0	0.000279774	0.000390934	0.000493969	0.000573326	0.000625300
1000.00	0.000259485	0.000381980	0.000490168	0.000571784	0.000624723
100.000	0.000257389	0.000381101	0.000489808	0.000571644	0.000624674
10.0000	0.000257185	0.000381016	0.000489774	0.000571631	0.000624670
1.00000	0.000257165	0.000381008	0.000489771	0.000571630	0.000624669
0.100000	0.000257163	0.000381007	0.000489771	0.000571630	0.000624669
0.0100000	0.000257163	0.000381007	0.000489771	0.000571630	0.000624669
0.00100000	0.000257163	0.000381007	0.000489771	0.000571630	0.000624669
0.000100000	0.000257163	0.000381007	0.000489771	0.000571630	0.000624669
1.00000e-05	0.000257163	0.000381007	0.000489771	0.000571630	0.000624669
1.00000e-06	0.000257163	0.000381007	0.000489771	0.000571630	0.000624669
1.00000e-07	0.000257163	0.000381007	0.000489771	0.000571630	0.000624669
1.00000e-08	0.000257163	0.000381007	0.000489771	0.000571630	0.000624669
1.00000e-09	0.000257163	0.000381007	0.000489771	0.000571630	0.000624669

Pa\K	3750.00	4000.00
1.00000e+08	0.000745207	0.000695897
1.00000e+07	0.000721909	0.000692133
1.00000e+06	0.000673988	0.000688880
100000.	0.000655055	0.000661258
10000.0	0.000652659	0.000660599
1000.00	0.000652482	0.000660580
100.000	0.000652469	0.000660582
10.0000	0.000652468	0.000660582
1.00000	0.000652468	0.000660582
0.100000	0.000652468	0.000660582
0.0100000	0.000652468	0.000660582
0.00100000	0.000652468	0.000660582
0.000100000	0.000652468	0.000660582
1.00000e-05	0.000652468	0.000660582
1.00000e-06	0.000652468	0.000660582
1.00000e-07	0.000652468	0.000660582
1.00000e-08	0.000652468	0.000660582
1.00000e-09	0.000652468	0.000660582

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.26012e-78	1.05998e-76	2.37677e-75	3.87178e-74	5.89534e-73
1.00000e+07	3.96257e-73	2.27081e-71	4.07497e-70	5.64668e-69	7.54186e-68
1.00000e+06	4.88233e-68	2.41885e-66	4.03362e-65	5.29926e-64	6.76906e-63
100000.	3.85313e-63	1.49223e-61	2.02884e-60	2.22598e-59	2.41402e-58
10000.0	7.41848e-59	1.27997e-57	1.01696e-56	7.33057e-56	5.56831e-55
1000.00	6.55674e-56	3.78728e-55	1.56136e-54	6.85988e-54	3.47823e-53
100.000	1.78623e-54	3.96489e-54	1.04274e-53	3.53917e-53	1.55108e-52
10.0000	7.78663e-54	1.99534e-53	5.87443e-53	2.12552e-52	9.69270e-52
1.00000	6.23843e-53	1.73242e-52	5.13170e-52	1.82767e-51	8.15565e-51
0.100000	5.49864e-52	1.38307e-51	3.70026e-51	1.19631e-50	4.88365e-50
0.0100000	2.13895e-51	2.54529e-51	3.78147e-51	7.55454e-51	2.05755e-50
0.00100000	1.56362e-52	3.05790e-53	1.75728e-53	1.95235e-53	3.58545e-53

0.000100000	8.39169e-56	1.01022e-56	5.47954e-57	6.31388e-57	1.23979e-56
1.00000e-05	3.69811e-59	6.80421e-60	4.83742e-60	6.81475e-60	1.58429e-59
1.00000e-06	7.36790e-62	2.17235e-62	2.01616e-62	3.46758e-62	9.87451e-62
1.00000e-07	6.40504e-64	2.89357e-64	3.49198e-64	7.57694e-64	2.88579e-63
1.00000e-08	2.09081e-65	1.35551e-65	2.00119e-65	5.06782e-65	2.23412e-64
1.00000e-09	1.63192e-66	1.19103e-66	1.84453e-66	4.80920e-66	2.16809e-65

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	9.53629e-72	1.85202e-70	5.07102e-69	2.35508e-67	2.06148e-65
1.00000e+07	1.08610e-66	1.88432e-65	4.58562e-64	1.87518e-62	1.44034e-60
1.00000e+06	9.36308e-62	1.56384e-60	3.67032e-59	1.45207e-57	1.08555e-55
100000.	2.87134e-57	4.17305e-56	8.65514e-55	3.10715e-53	2.19738e-51
10000.0	4.84015e-54	5.33939e-53	8.89387e-52	2.85151e-50	2.09025e-48
1000.00	2.18426e-52	1.94606e-51	3.20993e-50	1.29654e-48	1.29470e-46
100.000	9.32597e-52	8.98108e-51	1.79756e-49	8.74219e-48	9.81996e-46
10.0000	6.03177e-51	6.07221e-50	1.30124e-48	6.85792e-47	8.28257e-45
1.00000	4.99216e-50	5.03440e-49	1.10927e-47	6.02999e-46	7.39845e-44
0.100000	2.76196e-49	2.60246e-48	5.39997e-47	2.76451e-45	3.19902e-43
0.0100000	8.22699e-50	5.73608e-49	9.15113e-48	3.74738e-46	3.68832e-44
0.00100000	1.08582e-52	6.20602e-52	8.80216e-51	3.73118e-49	5.34122e-47
0.000100000	4.08078e-56	2.65545e-55	5.84658e-54	7.64752e-52	4.69192e-49
1.00000e-05	6.31446e-59	6.90766e-58	7.33750e-56	3.22490e-53	3.27784e-50
1.00000e-06	5.89124e-61	1.98033e-59	5.43978e-57	2.93663e-54	3.15929e-51
1.00000e-07	2.84494e-62	1.64999e-60	5.27327e-58	2.90902e-55	3.14764e-52
1.00000e-08	2.55958e-63	1.61807e-61	5.25676e-59	2.90627e-56	3.14648e-53
1.00000e-09	2.53099e-64	1.61488e-62	5.25511e-60	2.90600e-57	3.14636e-54

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.68907e-63	4.16523e-61	5.77362e-59	8.04811e-57	8.05494e-55
1.00000e+07	1.64968e-58	2.28966e-56	2.91753e-54	4.17610e-52	4.47971e-50
1.00000e+06	1.21453e-53	1.65355e-51	2.07136e-49	2.97104e-47	3.21950e-45
100000.	2.86878e-49	3.23032e-47	4.05886e-45	6.15833e-43	7.07115e-41
10000.0	2.46877e-46	3.75470e-44	5.26458e-42	9.90759e-40	1.38231e-37
1000.00	1.81071e-44	3.12695e-42	4.83392e-40	1.12340e-37	1.95817e-35
100.000	1.45084e-43	2.67443e-41	4.42845e-39	1.20321e-36	2.54738e-34
10.0000	1.27384e-42	2.41567e-40	4.07137e-38	1.12969e-35	2.44366e-33
1.00000	1.14034e-41	2.15903e-39	3.62921e-37	1.00891e-34	2.20069e-32
0.100000	4.67658e-41	8.51954e-39	1.40241e-36	4.04990e-34	9.70776e-32
0.0100000	4.92037e-42	9.23656e-40	1.76800e-37	8.43194e-35	3.90157e-32
0.00100000	1.31959e-44	5.88215e-42	2.61319e-39	3.69733e-36	3.77219e-33
0.000100000	2.93874e-46	2.44001e-43	1.56618e-40	3.04657e-37	3.67410e-34
1.00000e-05	2.43268e-47	2.19763e-44	1.47644e-41	2.98139e-38	3.66292e-35
1.00000e-06	2.38637e-48	2.17437e-45	1.46762e-42	2.97487e-39	3.66178e-36
1.00000e-07	2.38178e-49	2.17206e-46	1.46674e-43	2.97422e-40	3.66167e-37
1.00000e-08	2.38132e-50	2.17182e-47	1.46666e-44	2.97415e-41	3.66166e-38
1.00000e-09	2.38128e-51	2.17180e-48	1.46665e-45	2.97415e-42	3.66166e-39

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	5.65285e-53	2.79225e-51	1.08978e-49	3.06702e-48	6.53659e-47
1.00000e+07	3.42416e-48	1.82471e-46	7.62065e-45	2.18613e-43	4.60573e-42
1.00000e+06	2.49473e-43	1.34019e-41	5.56981e-40	1.56154e-38	3.18031e-37
100000.	5.75164e-39	3.13575e-37	1.25098e-35	3.21835e-34	5.90223e-33
10000.0	1.33043e-35	7.86123e-34	2.97534e-32	6.75615e-31	1.07321e-29
1000.00	2.42696e-33	1.59670e-31	5.37725e-30	1.02999e-28	1.39230e-27
100.000	4.40371e-32	3.42389e-30	1.09035e-28	1.94633e-27	2.48247e-26
10.0000	4.57517e-31	3.73234e-29	1.17763e-27	2.07737e-26	2.62277e-25
1.00000	4.25677e-30	3.50958e-28	1.08802e-26	1.87849e-25	2.32108e-24
0.100000	2.39488e-29	2.09773e-27	6.00611e-26	9.57796e-25	1.10729e-23
0.0100000	3.76088e-29	4.16571e-27	1.10946e-25	1.67153e-24	1.85298e-23
0.00100000	3.69989e-29	4.60748e-27	1.21177e-25	1.80897e-24	1.99179e-23
0.000100000	3.67949e-29	4.65634e-27	1.22300e-25	1.82397e-24	2.00688e-23
1.00000e-05	3.67726e-29	4.66127e-27	1.22413e-25	1.82549e-24	2.00840e-23
1.00000e-06	3.67704e-29	4.66177e-27	1.22425e-25	1.82564e-24	2.00855e-23
1.00000e-07	3.67702e-29	4.66182e-27	1.22426e-25	1.82565e-24	2.00857e-23
1.00000e-08	3.67701e-29	4.66182e-27	1.22426e-25	1.82565e-24	2.00857e-23
1.00000e-09	3.67701e-29	4.66182e-27	1.22426e-25	1.82565e-24	2.00857e-23

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.09998e-45	1.61807e-44	1.95643e-43	1.94248e-42	1.66419e-41
1.00000e+07	7.49012e-41	1.08276e-39	1.27553e-38	1.20320e-37	9.75853e-37
1.00000e+06	4.97883e-36	6.86976e-35	7.73122e-34	7.00332e-33	5.45760e-32
100000.	8.32766e-32	1.01121e-30	1.00949e-29	8.31494e-29	5.92882e-28
10000.0	1.31968e-28	1.35913e-27	1.16122e-26	8.40699e-26	5.30586e-25
1000.00	1.48135e-26	1.30778e-25	9.70617e-25	6.19833e-24	3.47452e-23
100.000	2.51175e-25	2.11199e-24	1.50051e-23	9.21226e-23	4.98015e-22
10.0000	2.62900e-24	2.18868e-23	1.53985e-22	9.36446e-22	5.01388e-21

1.00000	2.27593e-23	1.84508e-22	1.26217e-21	7.45301e-21	3.86493e-20
0.100000	1.02001e-22	7.75150e-22	4.97595e-21	2.75658e-20	1.34043e-19
0.0100000	1.64292e-22	1.20375e-21	7.46544e-21	4.00231e-20	1.88663e-19
0.00100000	1.75505e-22	1.27837e-21	7.88489e-21	4.20559e-20	1.97304e-19
0.000100000	1.76717e-22	1.28640e-21	7.92981e-21	4.22726e-20	1.98221e-19
1.00000e-05	1.76840e-22	1.28721e-21	7.93434e-21	4.22944e-20	1.98314e-19
1.00000e-06	1.76852e-22	1.28729e-21	7.93479e-21	4.22966e-20	1.98323e-19
1.00000e-07	1.76853e-22	1.28730e-21	7.93483e-21	4.22968e-20	1.98324e-19
1.00000e-08	1.76853e-22	1.28730e-21	7.93484e-21	4.22968e-20	1.98324e-19
1.00000e-09	1.76853e-22	1.28730e-21	7.93484e-21	4.22968e-20	1.98324e-19

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	1.24777e-40	8.23604e-40	4.82036e-39	1.34387e-21	1.18272e-37
1.00000e+07	6.93697e-36	4.35078e-35	2.42907e-34	4.41430e-20	5.51720e-33
1.00000e+06	3.72910e-31	2.24940e-30	1.20858e-29	3.08326e-19	2.54754e-28
100000.	3.72285e-27	2.07405e-26	1.03404e-25	8.62320e-19	1.89967e-24
10000.0	2.96360e-24	1.47847e-23	6.64606e-23	2.91023e-18	1.01266e-21
1000.00	1.73435e-22	7.79066e-22	3.17839e-21	1.37324e-18	4.08501e-20
100.000	2.40439e-21	1.04780e-20	4.15949e-20	4.86541e-18	5.10408e-19
10.0000	2.39687e-20	1.03408e-19	4.06351e-19	3.03908e-17	4.88594e-18
1.00000	1.78480e-19	7.42276e-19	2.80727e-18	7.50034e-17	3.11834e-17
0.100000	5.80353e-19	2.26428e-18	8.04349e-18	4.57352e-17	7.92933e-17
0.0100000	7.93256e-19	3.01123e-18	1.04276e-17	2.84369e-17	9.82529e-17
0.00100000	8.25953e-19	3.12273e-18	1.07740e-17	2.71282e-17	1.00873e-16
0.000100000	8.29408e-19	3.13446e-18	1.08103e-17	2.69848e-17	1.01146e-16
1.00000e-05	8.29755e-19	3.13564e-18	1.08140e-17	2.69686e-17	1.01173e-16
1.00000e-06	8.29790e-19	3.13576e-18	1.08143e-17	2.69669e-17	1.01176e-16
1.00000e-07	8.29794e-19	3.13577e-18	1.08144e-17	2.69667e-17	1.01176e-16
1.00000e-08	8.29794e-19	3.13577e-18	1.08144e-17	2.69667e-17	1.01176e-16
1.00000e-09	8.29794e-19	3.13577e-18	1.08144e-17	2.69667e-17	1.01176e-16

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	2.10041e-18	5.37097e-14	1.40200e-11	2.01935e-09	9.42209e-08
1.00000e+07	1.33227e-15	1.58346e-10	1.02655e-08	7.28344e-08	2.36901e-07
1.00000e+06	3.45844e-13	6.11312e-09	2.18252e-07	7.73359e-07	1.28437e-06
100000.	2.64330e-12	8.06851e-09	2.66871e-07	1.05907e-06	1.79312e-06
10000.0	8.93237e-13	1.57561e-09	8.26020e-08	5.77064e-07	1.32607e-06
1000.00	6.49575e-14	1.88446e-10	2.26771e-08	2.62654e-07	7.41123e-07
100.000	2.26061e-14	3.95844e-11	6.21195e-09	8.32498e-08	2.54282e-07
10.0000	6.87618e-14	2.09425e-11	1.50975e-09	1.95851e-08	8.71050e-08
1.00000	1.30155e-13	2.26068e-11	8.19090e-10	1.01874e-08	6.37442e-08
0.100000	1.33471e-13	2.28784e-11	7.51929e-10	9.27287e-09	6.14050e-08
0.0100000	1.30322e-13	2.28314e-11	7.44872e-10	9.18320e-09	6.11738e-08
0.00100000	1.29936e-13	2.28229e-11	7.44110e-10	9.17418e-09	6.11508e-08
0.000100000	1.29897e-13	2.28218e-11	7.44031e-10	9.17329e-09	6.11486e-08
1.00000e-05	1.29893e-13	2.28217e-11	7.44023e-10	9.17320e-09	6.11483e-08
1.00000e-06	1.29892e-13	2.28217e-11	7.44022e-10	9.17319e-09	6.11483e-08
1.00000e-07	1.29892e-13	2.28217e-11	7.44022e-10	9.17319e-09	6.11483e-08
1.00000e-08	1.29892e-13	2.28217e-11	7.44022e-10	9.17319e-09	6.11483e-08
1.00000e-09	1.29892e-13	2.28217e-11	7.44022e-10	9.17319e-09	6.11483e-08

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	8.55185e-07	2.54232e-06	4.46313e-06	5.49037e-06	5.28115e-06
1.00000e+07	1.10012e-06	6.28260e-06	1.92891e-05	3.43937e-05	4.36489e-05
1.00000e+06	1.99097e-06	5.62227e-06	1.76490e-05	3.50887e-05	5.28967e-05
100000.	2.45837e-06	4.00051e-06	8.54397e-06	1.72717e-05	3.09667e-05
10000.0	1.96094e-06	2.82859e-06	5.04177e-06	9.87737e-06	1.80382e-05
1000.00	1.14787e-06	1.76575e-06	3.30771e-06	6.48326e-06	1.18228e-05
100.000	4.84402e-07	1.06505e-06	2.47629e-06	5.25183e-06	9.89711e-06
10.0000	2.95792e-07	8.98513e-07	2.30333e-06	5.01921e-06	9.54929e-06
1.00000	2.71407e-07	8.77741e-07	2.28179e-06	4.99023e-06	9.50574e-06
0.100000	2.68933e-07	8.75612e-07	2.27956e-06	4.98719e-06	9.50116e-06
0.0100000	2.68687e-07	8.75401e-07	2.27934e-06	4.98689e-06	9.50070e-06
0.00100000	2.68663e-07	8.75380e-07	2.27932e-06	4.98686e-06	9.50065e-06
0.000100000	2.68661e-07	8.75378e-07	2.27932e-06	4.98686e-06	9.50065e-06
1.00000e-05	2.68660e-07	8.75378e-07	2.27932e-06	4.98686e-06	9.50065e-06
1.00000e-06	2.68660e-07	8.75378e-07	2.27932e-06	4.98686e-06	9.50065e-06
1.00000e-07	2.68660e-07	8.75378e-07	2.27932e-06	4.98686e-06	9.50065e-06
1.00000e-08	2.68660e-07	8.75378e-07	2.27932e-06	4.98686e-06	9.50065e-06
1.00000e-09	2.68660e-07	8.75378e-07	2.27932e-06	4.98686e-06	9.50065e-06

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	4.54915e-06	4.02957e-06	0.00115572	0.00117456	0.00117256
1.00000e+07	4.51561e-05	4.15606e-05	0.000958327	0.000861911	0.000755312
1.00000e+06	6.84494e-05	8.03510e-05	0.000462041	0.000457235	0.000412813
100000.	4.84660e-05	6.68612e-05	0.000244009	0.000282631	0.000253327

10000.0	2.93714e-05	4.29591e-05	0.000124923	0.000155916	0.000165803
1000.00	1.96444e-05	2.98948e-05	6.89175e-05	0.000102460	0.000139891
100.000	1.67783e-05	2.60035e-05	5.32702e-05	8.98710e-05	0.000135266
10.0000	1.62605e-05	2.52860e-05	5.04679e-05	8.79161e-05	0.000134667
1.00000	1.61948e-05	2.51935e-05	5.01057e-05	8.76835e-05	0.000134602
0.100000	1.61878e-05	2.51836e-05	5.00669e-05	8.76593e-05	0.000134595
0.0100000	1.61871e-05	2.51826e-05	5.00630e-05	8.76569e-05	0.000134595
0.00100000	1.61870e-05	2.51825e-05	5.00626e-05	8.76566e-05	0.000134595
0.000100000	1.61870e-05	2.51825e-05	5.00626e-05	8.76566e-05	0.000134595
1.00000e-05	1.61870e-05	2.51825e-05	5.00626e-05	8.76566e-05	0.000134595
1.00000e-06	1.61870e-05	2.51825e-05	5.00626e-05	8.76566e-05	0.000134595
1.00000e-07	1.61870e-05	2.51825e-05	5.00626e-05	8.76566e-05	0.000134595
1.00000e-08	1.61870e-05	2.51825e-05	5.00626e-05	8.76566e-05	0.000134595
1.00000e-09	1.61870e-05	2.51825e-05	5.00626e-05	8.76566e-05	0.000134595

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.00114803	0.00110600	0.00105925	0.00102224	0.00100471
1.00000e+07	0.000664607	0.000610639	0.000603084	0.000640120	0.000712346
1.00000e+06	0.000372034	0.000375712	0.000429222	0.000521307	0.000637509
100000.	0.000250431	0.000298081	0.000384806	0.000497467	0.000625352
10000.0	0.000206112	0.000278643	0.000376658	0.000494037	0.000623898
1000.00	0.000196879	0.000275600	0.000375628	0.000493665	0.000623756
100.000	0.000195583	0.000275242	0.000375520	0.000493628	0.000623743
10.0000	0.000195437	0.000275204	0.000375509	0.000493625	0.000623742
1.00000	0.000195422	0.000275201	0.000375508	0.000493624	0.000623742
0.100000	0.000195420	0.000275200	0.000375508	0.000493624	0.000623742
0.0100000	0.000195420	0.000275200	0.000375508	0.000493624	0.000623742
0.00100000	0.000195420	0.000275200	0.000375508	0.000493624	0.000623742
0.000100000	0.000195420	0.000275200	0.000375508	0.000493624	0.000623742
1.00000e-05	0.000195420	0.000275200	0.000375508	0.000493624	0.000623742
1.00000e-06	0.000195420	0.000275200	0.000375508	0.000493624	0.000623742
1.00000e-07	0.000195420	0.000275200	0.000375508	0.000493624	0.000623742
1.00000e-08	0.000195420	0.000275200	0.000375508	0.000493624	0.000623742
1.00000e-09	0.000195420	0.000275200	0.000375508	0.000493624	0.000623742

Pa\K	3750.00	4000.00
1.00000e+08	0.00100962	0.00103462
1.00000e+07	0.000807431	0.000913334
1.00000e+06	0.000764984	0.000893415
100000.	0.000759274	0.000891258
10000.0	0.000758689	0.000891080
1000.00	0.000758637	0.000891068
100.000	0.000758633	0.000891067
10.0000	0.000758633	0.000891067
1.00000	0.000758633	0.000891067
0.100000	0.000758633	0.000891067
0.0100000	0.000758633	0.000891067
0.00100000	0.000758633	0.000891067
0.000100000	0.000758633	0.000891067
1.00000e-05	0.000758633	0.000891067
1.00000e-06	0.000758633	0.000891067
1.00000e-07	0.000758633	0.000891067
1.00000e-08	0.000758633	0.000891067
1.00000e-09	0.000758633	0.000891067

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	6.35993e-38	1.91824e-36	1.38042e-35	5.87647e-35	1.92785e-34
1.00000e+07	2.46608e-33	5.15085e-32	3.03617e-31	1.13590e-30	3.39860e-30
1.00000e+06	3.42717e-29	6.15664e-28	3.43370e-27	1.24754e-26	3.66420e-26
100000.	3.54802e-25	6.22127e-24	3.43145e-23	1.23660e-22	3.60568e-22
10000.0	3.40787e-21	5.70924e-20	3.01734e-19	1.04203e-18	2.90751e-18
1000.00	2.36171e-17	3.02016e-16	1.29102e-15	3.71876e-15	8.80810e-15
100.000	4.53862e-14	3.26743e-13	9.89604e-13	2.21936e-12	4.30154e-12
10.0000	1.38215e-11	6.25280e-11	1.49699e-10	2.85791e-10	4.86659e-10
1.00000	1.16066e-09	3.48430e-09	6.15449e-09	9.01100e-09	1.19967e-08
0.100000	1.55700e-08	2.02840e-08	2.20499e-08	2.31633e-08	2.41279e-08
0.0100000	1.99084e-08	1.87829e-08	1.85623e-08	1.87629e-08	1.92054e-08
0.00100000	1.58326e-08	1.52270e-08	1.52762e-08	1.56159e-08	1.61272e-08
0.000100000	1.37424e-08	1.36484e-08	1.39354e-08	1.44113e-08	1.50071e-08
1.00000e-05	1.31185e-08	1.32179e-08	1.35272e-08	1.39604e-08	1.44676e-08
1.00000e-06	1.25266e-08	1.21136e-08	1.18440e-08	1.16102e-08	1.13488e-08
1.00000e-07	8.73047e-09	6.28399e-09	4.74359e-09	3.66256e-09	2.86500e-09
1.00000e-08	1.40148e-09	5.12632e-10	2.65069e-10	1.59408e-10	1.04407e-10
1.00000e-09	3.95632e-11	1.24274e-11	6.34866e-12	3.88041e-12	2.60400e-12

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	5.47975e-34	1.43966e-33	3.64120e-33	9.11204e-33	2.29818e-32
1.00000e+07	9.00629e-30	2.23728e-29	5.40131e-29	1.29886e-28	3.16337e-28
1.00000e+06	9.58445e-26	2.35737e-25	5.64542e-25	1.34815e-24	3.26276e-24
100000.	7.36276e-22	2.28479e-21	5.42264e-21	1.28115e-20	3.06013e-20
10000.0	7.20402e-18	1.66987e-17	3.74030e-17	8.26880e-17	1.82874e-16
1000.00	1.87026e-14	3.72931e-14	7.18237e-14	1.36039e-13	2.56372e-13
100.000	7.69601e-12	1.31639e-11	2.19839e-11	3.63259e-11	5.98875e-11
10.0000	7.75351e-10	1.18485e-09	1.76111e-09	2.56624e-09	3.68121e-09
1.00000	1.50936e-08	1.83030e-08	2.16356e-08	2.51066e-08	2.87353e-08
0.100000	2.51067e-08	2.61718e-08	2.73639e-08	2.87120e-08	3.02415e-08
0.0100000	1.98227e-08	2.05916e-08	2.15073e-08	2.25745e-08	2.38034e-08
0.00100000	1.67687e-08	1.75291e-08	1.84094e-08	1.94166e-08	2.05618e-08
0.000100000	1.57004e-08	1.64876e-08	1.73721e-08	1.83598e-08	1.94573e-08
1.00000e-05	1.50255e-08	1.56207e-08	1.62398e-08	1.68659e-08	1.74770e-08
1.00000e-06	1.10294e-08	1.06382e-08	1.01715e-08	9.63334e-09	9.03388e-09
1.00000e-07	2.26103e-09	1.79606e-09	1.43384e-09	1.14912e-09	9.23690e-10
1.00000e-08	7.22514e-11	5.19422e-11	3.83864e-11	2.89579e-11	2.21898e-11
1.00000e-09	1.85045e-12	1.36626e-12	1.03629e-12	8.01566e-13	6.29110e-13

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	5.90817e-32	1.55640e-31	4.20376e-31	1.16105e-30	3.26448e-30
1.00000e+07	7.88269e-28	2.01894e-27	5.31547e-27	1.43422e-26	3.94705e-26
1.00000e+06	8.08175e-24	2.05765e-23	5.38424e-23	1.44332e-22	3.94380e-22
100000.	7.45687e-20	1.86022e-19	4.74630e-19	1.23368e-18	3.24823e-18
10000.0	4.07661e-16	9.18488e-16	2.08990e-15	4.78774e-15	1.09970e-14
1000.00	4.84079e-13	9.18920e-13	1.75491e-12	3.36765e-12	6.47805e-12
100.000	9.89585e-11	1.64145e-10	2.73058e-10	4.54304e-10	7.53090e-10
10.0000	5.20745e-09	7.26637e-09	9.99654e-09	1.35484e-08	1.80770e-08
1.00000	3.25452e-08	3.65641e-08	4.08251e-08	4.53659e-08	5.02295e-08
0.100000	3.19771e-08	3.39449e-08	3.61724e-08	3.86894e-08	4.15274e-08
0.0100000	2.52084e-08	2.68073e-08	2.86206e-08	3.06709e-08	3.29830e-08
0.00100000	2.18587e-08	2.33231e-08	2.49718e-08	2.68222e-08	2.88909e-08
0.000100000	2.06698e-08	2.19994e-08	2.34434e-08	2.49920e-08	2.66261e-08
1.00000e-05	1.80463e-08	1.85434e-08	1.89365e-08	1.91958e-08	1.92960e-08
1.00000e-06	8.38741e-09	7.71052e-09	7.02027e-09	6.33280e-09	5.66231e-09
1.00000e-07	7.44173e-10	6.00547e-10	4.85203e-10	3.92299e-10	3.17299e-10
1.00000e-08	1.72100e-11	1.34736e-11	1.06260e-11	8.42828e-12	6.71490e-12
1.00000e-09	4.99215e-13	3.99464e-13	3.21682e-13	2.60297e-13	2.11388e-13

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	9.29549e-30	2.66676e-29	7.67179e-29	2.20409e-28	6.30214e-28
1.00000e+07	1.10189e-25	3.10359e-25	8.77589e-25	2.48049e-24	6.98254e-24
1.00000e+06	1.09223e-21	3.04866e-21	8.53175e-21	2.38293e-20	6.61642e-20
100000.	8.60981e-18	2.28360e-17	6.02793e-17	1.57623e-16	4.06736e-16
10000.0	2.52133e-14	5.74608e-14	1.29689e-13	2.88991e-13	6.34208e-13
1000.00	1.24532e-11	2.38448e-11	4.53248e-11	8.52572e-11	1.58237e-10
100.000	1.23857e-09	2.01277e-09	3.22048e-09	5.05896e-09	7.78599e-09
10.0000	2.37339e-08	3.06592e-08	3.89750e-08	4.87809e-08	6.01522e-08
1.00000	5.54634e-08	6.11193e-08	6.72529e-08	7.39233e-08	8.11922e-08
0.100000	4.47204e-08	4.83038e-08	5.23153e-08	5.67940e-08	6.17804e-08
0.0100000	3.55831e-08	3.84987e-08	4.17576e-08	4.53875e-08	4.94147e-08
0.00100000	3.11925e-08	3.37376e-08	3.65309e-08	3.95685e-08	4.28354e-08
0.000100000	2.83168e-08	3.00245e-08	3.16998e-08	3.32866e-08	3.47249e-08
1.00000e-05	1.92195e-08	1.89576e-08	1.85115e-08	1.78916e-08	1.71163e-08
1.00000e-06	5.02049e-09	4.41630e-09	3.85596e-09	3.34325e-09	2.87977e-09
1.00000e-07	2.56653e-10	2.07558e-10	1.67787e-10	1.35560e-10	1.09447e-10
1.00000e-08	5.36821e-12	4.30285e-12	3.45569e-12	2.77929e-12	2.23755e-12
1.00000e-09	1.72126e-13	1.40424e-13	1.14710e-13	9.37815e-14	7.67061e-14

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.78834e-27	5.02512e-27	1.39578e-26	3.82724e-26	1.03498e-25
1.00000e+07	1.95165e-23	5.40309e-23	1.47871e-22	3.99446e-22	1.06378e-21
1.00000e+06	1.82033e-19	4.94890e-19	1.32660e-18	3.50002e-18	9.07567e-18
100000.	1.03258e-15	2.57296e-15	6.28157e-15	1.50064e-14	3.50491e-14
10000.0	1.36800e-12	2.89586e-12	6.00897e-12	1.22115e-11	2.42886e-11
1000.00	2.89029e-10	5.18398e-10	9.11333e-10	1.56807e-09	2.63802e-09
100.000	1.17245e-08	1.72623e-08	2.48459e-08	3.49676e-08	4.81480e-08
10.0000	7.31407e-08	8.77777e-08	1.04078e-07	1.22046e-07	1.41682e-07
1.00000	8.91239e-08	9.77845e-08	1.07241e-07	1.17562e-07	1.28815e-07
0.100000	6.73161e-08	7.34431e-08	8.02032e-08	8.76372e-08	9.57836e-08
0.0100000	5.38628e-08	5.87506e-08	6.40897e-08	6.98821e-08	7.61170e-08
0.00100000	4.63031e-08	4.99284e-08	5.36522e-08	5.74007e-08	6.10876e-08
0.000100000	3.59554e-08	3.69238e-08	3.75852e-08	3.79071e-08	3.78718e-08
1.00000e-05	1.62101e-08	1.52014e-08	1.41203e-08	1.29965e-08	1.18579e-08
1.00000e-06	2.46540e-09	2.09860e-09	1.77687e-09	1.49700e-09	1.25540e-09

1.00000e-07	8.82951e-11	7.11706e-11	5.73165e-11	4.61174e-11	3.70731e-11
1.00000e-08	1.80261e-12	1.45280e-12	1.17112e-12	9.44085e-13	7.61007e-13
1.00000e-09	6.27492e-14	5.13279e-14	4.19750e-14	3.43134e-14	2.80372e-14

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	2.75840e-25	7.24155e-25	1.87180e-24	4.28554e-21	1.19082e-23
1.00000e+07	2.79043e-21	7.20441e-21	1.82963e-20	3.10286e-17	1.12010e-19
1.00000e+06	2.31037e-17	5.76889e-17	1.41191e-16	7.61616e-14	7.94545e-16
100000.	7.99881e-14	1.78314e-13	3.88246e-13	2.74327e-11	1.71514e-12
10000.0	4.72602e-11	8.99319e-11	1.67330e-10	1.83110e-09	5.41399e-10
1000.00	4.33640e-09	6.96267e-09	1.09195e-08	3.53658e-08	2.50518e-08
100.000	6.49136e-08	8.57725e-08	1.11192e-07	1.65055e-07	1.77250e-07
10.0000	1.62984e-07	1.85956e-07	2.10608e-07	2.21987e-07	2.65045e-07
1.00000	1.41067e-07	1.54386e-07	1.68836e-07	1.71795e-07	2.01367e-07
0.100000	1.04677e-07	1.14347e-07	1.24813e-07	1.30525e-07	1.48160e-07
0.0100000	8.27680e-08	8.97902e-08	9.71185e-08	1.02870e-07	1.12327e-07
0.00100000	6.46178e-08	6.78920e-08	7.08126e-08	7.10991e-08	7.52441e-08
0.000100000	3.74765e-08	3.67336e-08	3.56684e-08	3.23356e-08	3.27231e-08
1.00000e-05	1.07295e-08	9.63237e-09	8.58337e-09	7.48537e-09	6.67698e-09
1.00000e-06	1.04827e-09	8.71844e-10	7.22441e-10	7.41547e-10	4.91150e-10
1.00000e-07	2.97762e-11	2.38952e-11	1.91603e-11	3.34892e-11	1.22924e-11
1.00000e-08	6.13337e-13	4.94217e-13	3.98138e-13	1.24353e-12	2.58197e-13
1.00000e-09	2.28971e-14	1.86891e-14	1.52459e-14	5.74295e-14	1.01295e-14

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	2.89289e-17	2.66546e-12	9.30026e-10	2.26799e-07	6.56643e-06
1.00000e+07	1.47582e-13	9.14869e-10	5.06962e-08	1.55453e-06	1.75693e-05
1.00000e+06	6.02235e-11	1.79279e-08	3.52713e-07	4.23222e-06	2.31508e-05
100000.	4.02632e-09	1.67787e-07	1.78427e-06	8.65154e-06	2.39258e-05
10000.0	8.77561e-08	1.06249e-06	4.66392e-06	1.12859e-05	2.03822e-05
1000.00	4.84362e-07	2.08090e-06	4.77522e-06	8.18414e-06	1.24909e-05
100.000	7.35365e-07	1.74578e-06	3.11659e-06	4.66937e-06	6.18918e-06
10.0000	5.72251e-07	1.14351e-06	1.80638e-06	2.22345e-06	2.29208e-06
1.00000	3.98310e-07	7.07108e-07	8.69250e-07	7.69850e-07	5.72167e-07
0.100000	2.73974e-07	3.63434e-07	2.99803e-07	1.79099e-07	9.47982e-08
0.0100000	1.59502e-07	1.32208e-07	6.86673e-08	2.77013e-08	1.07050e-08
0.00100000	6.43461e-08	3.08005e-08	1.01804e-08	2.88263e-09	8.51473e-10
0.000100000	1.51248e-08	4.27170e-09	9.55691e-10	2.03598e-10	4.93879e-11
1.00000e-05	1.86443e-09	3.41084e-10	5.69594e-11	1.00300e-11	2.20008e-12
1.00000e-06	1.15261e-10	1.59593e-11	2.28057e-12	3.75883e-13	8.48954e-14
1.00000e-07	4.31131e-12	5.59813e-13	8.06330e-14	1.42278e-14	3.77099e-15
1.00000e-08	1.63606e-13	2.24265e-14	3.49379e-15	6.93176e-16	2.24231e-16
1.00000e-09	8.11952e-15	1.19841e-15	2.02770e-16	4.48924e-17	1.70290e-17

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	2.97728e-05	5.63124e-05	8.75560e-05	0.000142478	0.000228921
1.00000e+07	6.11937e-05	0.000109106	0.000168479	0.000275763	0.000478309
1.00000e+06	6.31951e-05	0.000117317	0.000197044	0.000328459	0.000493727
100000.	4.78032e-05	8.71623e-05	0.000166965	0.000313058	0.000478240
10000.0	3.34117e-05	5.74542e-05	0.000105701	0.000183396	0.000255168
1000.00	1.83135e-05	2.77779e-05	4.34422e-05	6.42064e-05	7.94322e-05
100.000	7.54357e-06	9.19502e-06	1.15390e-05	1.43791e-05	1.60200e-05
10.0000	2.12128e-06	1.97990e-06	1.98427e-06	2.13639e-06	2.20663e-06
1.00000	3.89771e-07	2.79328e-07	2.30588e-07	2.25423e-07	2.27262e-07
0.100000	4.81713e-08	2.73737e-08	1.96847e-08	1.89321e-08	2.00391e-08
0.0100000	4.20824e-09	1.99873e-09	1.37078e-09	1.45379e-09	1.72201e-09
0.00100000	2.73280e-10	1.17736e-10	8.88706e-11	1.15581e-10	1.54659e-10
0.000100000	1.40933e-11	6.34890e-12	6.26658e-12	1.01359e-11	1.46878e-11
1.00000e-05	6.36884e-13	3.70420e-13	5.15864e-13	9.60792e-13	1.44274e-12
1.00000e-06	3.01802e-14	2.64419e-14	4.73897e-14	9.41623e-14	1.43348e-13
1.00000e-07	1.87225e-15	2.27945e-15	4.59172e-15	9.34669e-15	1.42995e-14
1.00000e-08	1.48073e-16	2.14793e-16	4.53586e-16	9.31883e-16	1.42844e-15
1.00000e-09	1.33523e-17	2.09663e-17	4.51305e-17	9.30690e-17	1.42776e-16

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	0.000287563	0.000257701	4.88282e-05	4.62679e-05	4.54222e-05
1.00000e+07	0.000819242	0.00116345	4.58917e-05	3.84566e-05	4.20719e-05
1.00000e+06	0.000624222	0.000697671	0.000101622	6.10505e-05	4.79299e-05
100000.	0.000545492	0.000498053	8.88618e-05	3.90549e-05	2.10498e-05
10000.0	0.000263246	0.000213718	3.59372e-05	1.19929e-05	4.66080e-06
1000.00	7.53935e-05	5.68247e-05	8.60332e-06	2.20989e-06	6.71185e-07
100.000	1.42217e-05	1.01356e-05	1.36964e-06	2.89920e-07	7.63151e-08
10.0000	1.87862e-06	1.29667e-06	1.64549e-07	3.15757e-08	7.84486e-09
1.00000	1.93611e-07	1.34003e-07	1.71109e-08	3.19685e-09	7.83438e-10
0.100000	1.78797e-08	1.27546e-08	1.69964e-09	3.18229e-10	7.79492e-11
0.0100000	1.64005e-09	1.21104e-09	1.68009e-10	3.16618e-11	7.76605e-12

0.00100000	1.55081e-10	1.17238e-10	1.67053e-11	3.15961e-12	7.75637e-13
0.000100000	1.51230e-11	1.15573e-11	1.66662e-12	3.15729e-13	7.75363e-14
1.00000e-05	1.50005e-12	1.15043e-12	1.66475e-13	3.15620e-14	7.75246e-15
1.00000e-06	1.49561e-13	1.14840e-13	1.66378e-14	3.15562e-15	7.75184e-16
1.00000e-07	1.49380e-14	1.14752e-14	1.66330e-15	3.15533e-16	7.75152e-17
1.00000e-08	1.49298e-15	1.14709e-15	1.66293e-16	3.15509e-17	7.75126e-18
1.00000e-09	1.49259e-16	1.14689e-16	1.66278e-17	3.15500e-18	7.75117e-19

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	4.73782e-05	5.13594e-05	5.56282e-05	5.83922e-05	5.85930e-05
1.00000e+07	4.69048e-05	4.68849e-05	4.15795e-05	3.35662e-05	2.54047e-05
1.00000e+06	3.57186e-05	2.35626e-05	1.42593e-05	8.27677e-06	4.76926e-06
100000.	1.06783e-05	5.03358e-06	3.32491e-06	1.10130e-06	5.49615e-07
10000.0	1.77145e-06	6.71320e-07	2.67181e-07	1.15389e-07	5.46263e-08
1000.00	2.13456e-07	7.24550e-08	2.71565e-08	1.13908e-08	5.32279e-09
100.000	2.23488e-08	7.28897e-09	2.68657e-09	1.11993e-09	5.22220e-10
10.0000	2.23816e-09	7.22963e-10	2.65683e-10	1.10674e-10	5.16008e-11
1.00000	2.22420e-10	7.17557e-11	2.63663e-11	1.09844e-11	5.12189e-12
0.100000	2.21273e-11	7.13960e-12	2.62386e-12	1.09326e-12	5.09808e-13
0.0100000	2.20545e-12	7.11772e-13	2.61620e-13	1.09017e-13	5.08405e-14
0.00100000	2.20327e-13	7.11156e-14	2.61415e-14	1.08938e-14	5.08051e-15
0.000100000	2.20273e-14	7.11021e-15	2.61373e-15	1.08922e-15	5.07982e-16
1.00000e-05	2.20252e-15	7.10971e-16	2.61358e-16	1.08917e-16	5.07959e-17
1.00000e-06	2.20242e-16	7.10946e-17	2.61351e-17	1.08914e-17	5.07948e-18
1.00000e-07	2.20236e-17	7.10933e-18	2.61347e-18	1.08913e-18	5.07942e-19
1.00000e-08	2.20231e-18	7.10923e-19	2.61344e-19	1.08912e-19	5.07938e-20
1.00000e-09	2.20230e-19	7.10919e-20	2.61343e-20	1.08911e-20	5.07936e-21

Pa\K	3750.00	4000.00
1.00000e+08	5.61490e-05	5.16693e-05
1.00000e+07	1.84802e-05	1.31702e-05
1.00000e+06	2.79078e-06	1.68024e-06
100000.	2.92057e-07	1.65250e-07
10000.0	2.82162e-08	1.57290e-08
1000.00	2.73394e-09	1.51998e-09
100.000	2.68015e-10	1.48939e-10
10.0000	2.64815e-11	1.47146e-11
1.00000	2.62865e-12	1.46059e-12
0.100000	2.61651e-13	1.45385e-13
0.0100000	2.60943e-14	1.44996e-14
0.00100000	2.60768e-15	1.44901e-15
0.000100000	2.60733e-16	1.44882e-16
1.00000e-05	2.60722e-17	1.44875e-17
1.00000e-06	2.60716e-18	1.44872e-18
1.00000e-07	2.60713e-19	1.44870e-19
1.00000e-08	2.60711e-20	1.44868e-20
1.00000e-09	2.60710e-21	1.44868e-21

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.16287e-41	6.28489e-41	2.49800e-40	9.99456e-40	4.34426e-39
1.00000e+07	1.16230e-39	6.27876e-39	2.49437e-38	9.97538e-38	4.33392e-37
1.00000e+06	1.15671e-37	6.21819e-37	2.45877e-36	9.78812e-36	4.23354e-35
100000.	1.10405e-35	5.68000e-35	2.15864e-34	8.28507e-34	3.46407e-33
10000.0	7.76494e-34	3.19633e-33	1.02702e-32	3.41844e-32	1.25883e-31
1000.00	1.50520e-32	2.23885e-32	3.21196e-32	5.48417e-32	1.15120e-31
100.000	1.38837e-33	2.30452e-34	1.63915e-34	2.35230e-34	4.76316e-34
10.0000	1.88415e-35	6.14987e-36	4.33637e-36	5.87821e-36	1.28255e-35
1.00000	9.43295e-37	8.95965e-37	9.99999e-37	1.42222e-36	2.63861e-36
0.100000	5.09513e-38	5.93272e-38	1.43787e-37	4.09562e-37	1.40898e-36
0.0100000	2.08585e-37	5.32389e-37	1.32237e-36	3.70554e-36	1.24997e-35
0.00100000	1.65394e-36	3.41531e-36	7.05170e-36	1.67652e-35	4.87591e-35
0.000100000	3.07140e-36	2.30936e-36	2.42238e-36	3.50866e-36	6.96801e-36
1.00000e-05	1.07592e-37	2.80669e-38	1.93312e-38	2.27668e-38	4.06838e-38
1.00000e-06	4.83613e-40	1.37528e-40	1.08272e-40	1.45411e-40	3.03885e-40
1.00000e-07	4.60139e-42	1.91658e-42	1.93371e-42	3.25180e-42	9.01019e-42
1.00000e-08	1.51576e-43	9.01910e-44	1.11161e-43	2.17989e-43	6.97961e-43
1.00000e-09	1.18415e-44	7.92826e-45	1.02490e-44	2.06911e-44	6.77350e-44

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	2.17650e-38	1.36974e-37	1.23882e-36	1.87487e-35	4.77779e-34
1.00000e+07	2.17034e-36	1.36530e-35	1.23443e-34	1.86813e-33	4.76203e-32
1.00000e+06	2.11091e-34	1.32267e-33	1.19242e-32	1.80380e-31	4.61163e-30
100000.	1.67443e-32	1.02135e-31	9.04108e-31	1.36742e-29	3.58079e-28
10000.0	5.42757e-31	3.00106e-30	2.49086e-29	3.81361e-28	1.12756e-26

1000.00	3.12528e-31	1.25175e-30	1.04580e-29	3.08069e-28	2.92336e-26
100.000	1.30756e-33	6.11808e-33	1.53097e-31	2.69496e-29	2.73235e-26
10.0000	4.13029e-35	2.33760e-34	9.59410e-33	2.66288e-30	2.70256e-26
1.00000	6.89156e-36	3.29181e-35	1.06982e-33	2.77219e-31	2.69953e-26
0.100000	6.49475e-36	4.88946e-35	8.62252e-34	5.81805e-32	2.69943e-26
0.0100000	5.65186e-35	4.15989e-34	6.64531e-33	2.63110e-31	2.70129e-26
0.00100000	1.92630e-34	1.25584e-33	1.83999e-32	7.43958e-31	2.70753e-26
0.000100000	2.03736e-35	1.07119e-34	1.71345e-33	1.45538e-31	2.70864e-26
1.00000e-05	1.16358e-37	8.07992e-37	4.96175e-35	1.30389e-32	2.70850e-26
1.00000e-06	1.21840e-39	2.37616e-38	3.95475e-36	1.28404e-33	2.70848e-26
1.00000e-07	5.83055e-41	1.97557e-39	3.86512e-37	1.28207e-34	2.70848e-26
1.00000e-08	5.23224e-42	1.93742e-40	3.85628e-38	1.28188e-35	2.70848e-26
1.00000e-09	5.17233e-43	1.93362e-41	3.85540e-39	1.28186e-36	2.70848e-26

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.37010e-32	3.26217e-31	5.80764e-30	7.73783e-29	7.94676e-28
1.00000e+07	1.36591e-30	3.25245e-29	5.78995e-28	7.71298e-27	7.91930e-26
1.00000e+06	1.32597e-28	3.15965e-27	5.62142e-26	7.47703e-25	7.65974e-24
100000.	1.04928e-26	2.51677e-25	4.46575e-24	5.88805e-23	5.95335e-22
10000.0	3.60183e-25	8.91924e-24	1.57652e-22	2.02599e-21	1.96802e-20
1000.00	1.41541e-24	4.09681e-23	7.57625e-22	9.66218e-21	9.05517e-20
100.000	1.62857e-24	5.09738e-23	9.71576e-22	1.24928e-20	1.16720e-19
10.0000	1.64960e-24	5.21395e-23	9.97855e-22	1.28476e-20	1.20019e-19
1.00000	1.65176e-24	5.22611e-23	1.00061e-21	1.28849e-20	1.20366e-19
0.100000	1.65209e-24	5.22769e-23	1.00096e-21	1.28898e-20	1.20412e-19
0.0100000	1.65305e-24	5.23068e-23	1.00156e-21	1.28981e-20	1.20497e-19
0.00100000	1.65632e-24	5.24058e-23	1.00344e-21	1.29224e-20	1.20728e-19
0.000100000	1.65770e-24	5.24553e-23	1.00442e-21	1.29349e-20	1.20841e-19
1.00000e-05	1.65781e-24	5.24610e-23	1.00454e-21	1.29366e-20	1.20857e-19
1.00000e-06	1.65782e-24	5.24616e-23	1.00456e-21	1.29367e-20	1.20858e-19
1.00000e-07	1.65782e-24	5.24617e-23	1.00456e-21	1.29368e-20	1.20858e-19
1.00000e-08	1.65782e-24	5.24617e-23	1.00456e-21	1.29368e-20	1.20858e-19
1.00000e-09	1.65782e-24	5.24617e-23	1.00456e-21	1.29368e-20	1.20858e-19

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	6.51534e-27	4.40514e-26	2.52623e-25	1.25822e-24	5.55146e-24
1.00000e+07	6.49077e-25	4.38683e-24	2.51456e-23	1.25172e-22	5.51927e-22
1.00000e+06	6.25984e-23	4.21583e-22	2.40645e-21	1.19208e-20	5.22674e-20
100000.	4.78510e-21	3.15972e-20	1.76324e-19	8.51448e-19	3.62869e-18
10000.0	1.50360e-19	9.35695e-19	4.88486e-18	2.19248e-17	8.63401e-17
1000.00	6.56727e-19	3.84229e-18	1.87515e-17	7.84297e-17	2.87415e-16
100.000	8.38827e-19	4.84744e-18	2.33285e-17	9.61541e-17	3.47214e-16
10.0000	8.61737e-19	4.97313e-18	2.38960e-17	9.83307e-17	3.54484e-16
1.00000	8.64153e-19	4.98640e-18	2.39560e-17	9.85610e-17	3.55255e-16
0.100000	8.64490e-19	4.98836e-18	2.39656e-17	9.86020e-17	3.55410e-16
0.0100000	8.65168e-19	4.99274e-18	2.39892e-17	9.87107e-17	3.55849e-16
0.00100000	8.66853e-19	5.00260e-18	2.40371e-17	9.89089e-17	3.56563e-16
0.000100000	8.67627e-19	5.00683e-18	2.40562e-17	9.89821e-17	3.56807e-16
1.00000e-05	8.67732e-19	5.00740e-18	2.40587e-17	9.89916e-17	3.56839e-16
1.00000e-06	8.67743e-19	5.00745e-18	2.40589e-17	9.89926e-17	3.56842e-16
1.00000e-07	8.67744e-19	5.00746e-18	2.40590e-17	9.89927e-17	3.56842e-16
1.00000e-08	8.67744e-19	5.00746e-18	2.40590e-17	9.89927e-17	3.56842e-16
1.00000e-09	8.67744e-19	5.00746e-18	2.40590e-17	9.89927e-17	3.56842e-16

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.20595e-23	8.00377e-23	2.68226e-22	8.38300e-22	2.46327e-21
1.00000e+07	2.19152e-21	7.94458e-21	2.65977e-20	8.30316e-20	2.43659e-19
1.00000e+06	2.06200e-19	7.42012e-19	2.46349e-18	7.61811e-18	2.21194e-17
100000.	1.38734e-17	4.82343e-17	1.54232e-16	4.57859e-16	1.27193e-15
10000.0	3.03404e-16	9.64906e-16	2.81025e-15	7.57084e-15	1.90272e-14
1000.00	9.39727e-16	2.78284e-15	7.55814e-15	1.90265e-14	4.47911e-14
100.000	1.11897e-15	3.26781e-15	8.75835e-15	2.17735e-14	5.06598e-14
10.0000	1.14054e-15	3.32557e-15	8.89993e-15	2.20946e-14	5.13397e-14
1.00000	1.14283e-15	3.33175e-15	8.91518e-15	2.21295e-14	5.14150e-14
0.100000	1.14337e-15	3.33346e-15	8.92025e-15	2.21437e-14	5.14526e-14
0.0100000	1.14494e-15	3.33855e-15	8.93526e-15	2.21845e-14	5.15551e-14
0.00100000	1.14722e-15	3.34512e-15	8.95249e-15	2.22261e-14	5.16484e-14
0.000100000	1.14795e-15	3.34705e-15	8.95721e-15	2.22367e-14	5.16707e-14
1.00000e-05	1.14804e-15	3.34729e-15	8.95778e-15	2.22379e-14	5.16734e-14
1.00000e-06	1.14805e-15	3.34731e-15	8.95784e-15	2.22381e-14	5.16736e-14
1.00000e-07	1.14805e-15	3.34732e-15	8.95784e-15	2.22381e-14	5.16737e-14
1.00000e-08	1.14805e-15	3.34732e-15	8.95784e-15	2.22381e-14	5.16737e-14
1.00000e-09	1.14805e-15	3.34732e-15	8.95784e-15	2.22381e-14	5.16737e-14

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	6.85179e-21	1.81461e-20	4.59792e-20	1.36683e-17	2.62629e-19

1.00000e+07	6.76733e-19	1.78914e-18	4.52451e-18	1.20802e-15	2.57224e-17
1.00000e+06	6.07083e-17	1.58392e-16	3.94733e-16	6.23427e-14	2.16984e-15
100000.	3.32852e-15	8.25162e-15	1.94714e-14	7.60702e-13	9.49853e-14
10000.0	4.49362e-14	1.00352e-13	2.13070e-13	1.03796e-12	8.40724e-13
1000.00	9.93580e-14	2.09030e-13	4.19398e-13	7.51836e-13	1.49199e-12
100.000	1.11154e-13	2.31486e-13	4.60125e-13	7.10443e-13	1.61006e-12
10.0000	1.12510e-13	2.34048e-13	4.64740e-13	7.06075e-13	1.62329e-12
1.00000	1.12663e-13	2.34347e-13	4.65299e-13	7.06311e-13	1.62511e-12
0.100000	1.12758e-13	2.34573e-13	4.65818e-13	7.08286e-13	1.62748e-12
0.0100000	1.12999e-13	2.35107e-13	4.66934e-13	7.09547e-13	1.63168e-12
0.00100000	1.13195e-13	2.35495e-13	4.67663e-13	7.09290e-13	1.63391e-12
0.000100000	1.13239e-13	2.35577e-13	4.67808e-13	7.09160e-13	1.63431e-12
1.00000e-05	1.13244e-13	2.35587e-13	4.67824e-13	7.09145e-13	1.63435e-12
1.00000e-06	1.13244e-13	2.35588e-13	4.67826e-13	7.09144e-13	1.63436e-12
1.00000e-07	1.13245e-13	2.35588e-13	4.67826e-13	7.09144e-13	1.63436e-12
1.00000e-08	1.13245e-13	2.35588e-13	4.67826e-13	7.09144e-13	1.63436e-12
1.00000e-09	1.13245e-13	2.35588e-13	4.67826e-13	7.09144e-13	1.63436e-12

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	7.24348e-15	3.01072e-12	9.33665e-10	1.06450e-07	2.08494e-06
1.00000e+07	5.25313e-13	4.53251e-10	2.84531e-08	3.64047e-07	2.32466e-06
1.00000e+06	1.65702e-11	1.01939e-08	3.01408e-07	1.16897e-06	2.62177e-06
100000.	9.47783e-11	1.39431e-08	3.30851e-07	1.34840e-06	2.59231e-06
10000.0	1.08888e-10	4.92230e-09	1.10394e-07	7.44183e-07	1.89900e-06
1000.00	9.7203e-11	2.59764e-09	4.48016e-08	3.91294e-07	1.20296e-06
100.000	9.51945e-11	2.29013e-09	2.69479e-08	1.93979e-07	6.40744e-07
10.0000	9.49899e-11	2.23959e-09	2.17478e-08	1.23460e-07	4.49294e-07
1.00000	9.51776e-11	2.23935e-09	2.09881e-08	1.13132e-07	4.23169e-07
0.100000	9.54596e-11	2.24343e-09	2.09322e-08	1.12184e-07	4.20685e-07
0.0100000	9.55630e-11	2.24444e-09	2.09288e-08	1.12098e-07	4.20452e-07
0.00100000	9.55727e-11	2.24456e-09	2.09285e-08	1.12090e-07	4.20430e-07
0.000100000	9.55731e-11	2.24457e-09	2.09285e-08	1.12089e-07	4.20427e-07
1.00000e-05	9.55731e-11	2.24457e-09	2.09285e-08	1.12089e-07	4.20427e-07
1.00000e-06	9.55731e-11	2.24457e-09	2.09285e-08	1.12089e-07	4.20427e-07
1.00000e-07	9.55731e-11	2.24457e-09	2.09285e-08	1.12089e-07	4.20427e-07
1.00000e-08	9.55731e-11	2.24457e-09	2.09285e-08	1.12089e-07	4.20427e-07
1.00000e-09	9.55731e-11	2.24457e-09	2.09285e-08	1.12089e-07	4.20427e-07

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	1.13639e-05	3.32263e-05	6.71389e-05	9.22649e-05	9.66916e-05
1.00000e+07	8.86105e-06	2.61736e-05	6.30162e-05	0.000111538	0.000157969
1.00000e+06	5.79143e-06	1.37283e-05	3.10928e-05	5.52271e-05	8.49257e-05
100000.	4.37122e-06	7.70319e-06	1.40371e-05	2.35559e-05	3.72810e-05
10000.0	3.35936e-06	5.57343e-06	9.46942e-06	1.60580e-05	2.65881e-05
1000.00	2.29265e-06	4.09913e-06	7.56038e-06	1.37947e-05	2.40644e-05
100.000	1.48699e-06	3.26501e-06	6.80737e-06	1.31565e-05	2.35392e-05
10.0000	1.26784e-06	3.08914e-06	6.68147e-06	1.30686e-05	2.34783e-05
1.00000	1.24119e-06	3.06986e-06	6.66867e-06	1.30601e-05	2.34726e-05
0.100000	1.23866e-06	3.06804e-06	6.66746e-06	1.30593e-05	2.34721e-05
0.0100000	1.23842e-06	3.06787e-06	6.66735e-06	1.30592e-05	2.34720e-05
0.00100000	1.23839e-06	3.06785e-06	6.66734e-06	1.30592e-05	2.34720e-05
0.000100000	1.23839e-06	3.06785e-06	6.66734e-06	1.30592e-05	2.34720e-05
1.00000e-05	1.23839e-06	3.06785e-06	6.66734e-06	1.30592e-05	2.34720e-05
1.00000e-06	1.23839e-06	3.06785e-06	6.66734e-06	1.30592e-05	2.34720e-05
1.00000e-07	1.23839e-06	3.06785e-06	6.66734e-06	1.30592e-05	2.34720e-05
1.00000e-08	1.23839e-06	3.06785e-06	6.66734e-06	1.30592e-05	2.34720e-05
1.00000e-09	1.23839e-06	3.06785e-06	6.66734e-06	1.30592e-05	2.34720e-05

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	9.12068e-05	8.69456e-05	0.000775018	0.000878736	0.000926114
1.00000e+07	0.000195388	0.000220140	0.00103466	0.00103137	0.000930549
1.00000e+06	0.000118737	0.000145796	0.000527974	0.000529612	0.000561635
100000.	5.61818e-05	7.85250e-05	0.000223440	0.000334424	0.000462887
10000.0	4.23439e-05	6.42038e-05	0.000170630	0.000304389	0.000448886
1000.00	3.96712e-05	6.17594e-05	0.000163661	0.000300658	0.000447229
100.000	3.92512e-05	6.14612e-05	0.000162962	0.000300321	0.000447079
10.0000	3.92114e-05	6.14420e-05	0.000162912	0.000300297	0.000447067
1.00000	3.92080e-05	6.14411e-05	0.000162909	0.000300295	0.000447066
0.100000	3.92077e-05	6.14410e-05	0.000162908	0.000300295	0.000447066
0.0100000	3.92077e-05	6.14410e-05	0.000162908	0.000300295	0.000447066
0.00100000	3.92077e-05	6.14410e-05	0.000162908	0.000300295	0.000447066
0.000100000	3.92077e-05	6.14410e-05	0.000162908	0.000300295	0.000447066
1.00000e-05	3.92077e-05	6.14410e-05	0.000162908	0.000300295	0.000447066
1.00000e-06	3.92077e-05	6.14410e-05	0.000162908	0.000300295	0.000447066
1.00000e-07	3.92077e-05	6.14410e-05	0.000162908	0.000300295	0.000447066
1.00000e-08	3.92077e-05	6.14410e-05	0.000162908	0.000300295	0.000447066
1.00000e-09	3.92077e-05	6.14410e-05	0.000162908	0.000300295	0.000447066

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.000924618	0.000886560	0.000828449	0.000764508	0.000702951
1.00000e+07	0.000839775	0.000781303	0.000741419	0.000706077	0.000669170
1.00000e+06	0.000618015	0.00064507	0.000685051	0.000680721	0.000658696
100000.	0.000573917	0.000646094	0.000677825	0.000678157	0.000657983
10000.0	0.000568166	0.000643927	0.000677089	0.000677954	0.000657963
1000.00	0.000567536	0.000643712	0.000677026	0.000677943	0.000657967
100.000	0.000567479	0.000643693	0.000677022	0.000677943	0.000657968
10.0000	0.000567474	0.000643692	0.000677021	0.000677943	0.000657969
1.00000	0.000567474	0.000643692	0.000677021	0.000677943	0.000657969
0.100000	0.000567474	0.000643692	0.000677021	0.000677943	0.000657969
0.0100000	0.000567474	0.000643692	0.000677021	0.000677943	0.000657969
0.00100000	0.000567474	0.000643692	0.000677021	0.000677943	0.000657969
0.000100000	0.000567474	0.000643692	0.000677021	0.000677943	0.000657969
1.00000e-05	0.000567474	0.000643692	0.000677021	0.000677943	0.000657969
1.00000e-06	0.000567474	0.000643692	0.000677021	0.000677943	0.000657969
1.00000e-07	0.000567474	0.000643692	0.000677021	0.000677943	0.000657969
1.00000e-08	0.000567474	0.000643692	0.000677021	0.000677943	0.000657969
1.00000e-09	0.000567474	0.000643692	0.000677021	0.000677943	0.000657969

Pa\K	3750.00	4000.00
1.00000e+08	0.000646855	0.000596617
1.00000e+07	0.000629947	0.000589724
1.00000e+06	0.000626255	0.000588938
100000.	0.000626221	0.000589113
10000.0	0.000626255	0.000589154
1000.00	0.000626262	0.000589160
100.000	0.000626263	0.000589161
10.0000	0.000626263	0.000589161
1.00000	0.000626263	0.000589161
0.100000	0.000626263	0.000589161
0.0100000	0.000626263	0.000589161
0.00100000	0.000626263	0.000589161
0.000100000	0.000626263	0.000589161
1.00000e-05	0.000626263	0.000589161
1.00000e-06	0.000626263	0.000589161
1.00000e-07	0.000626263	0.000589161
1.00000e-08	0.000626263	0.000589161
1.00000e-09	0.000626263	0.000589161

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	1.02444e-68	6.81730e-68	4.19346e-67	3.10879e-66	2.84179e-65
1.00000e+07	1.01999e-66	6.75761e-66	4.13868e-65	3.05483e-64	2.78021e-63
1.00000e+06	9.77452e-65	6.21239e-64	3.65914e-63	2.60147e-62	2.28321e-61
100000.	6.87835e-63	3.39344e-62	1.63830e-61	9.82079e-61	7.40060e-60
10000.0	1.05411e-61	1.45245e-61	2.42944e-61	5.83628e-61	1.96309e-60
1000.00	1.84763e-63	1.24371e-63	2.03140e-63	4.54916e-63	1.52790e-62
100.000	5.89441e-65	4.59907e-65	1.26872e-64	5.12005e-64	2.93899e-63
10.0000	2.24568e-65	1.15880e-65	1.17111e-65	2.40797e-65	8.96508e-65
1.00000	2.57607e-66	7.05405e-66	2.17696e-65	8.40771e-65	4.18391e-64
0.100000	1.44091e-65	2.43084e-65	4.90766e-65	1.30824e-64	4.69909e-64
0.0100000	3.56375e-66	8.99012e-67	5.67102e-67	6.81288e-67	1.36760e-66
0.00100000	1.45137e-69	1.09984e-70	4.77461e-71	5.00961e-71	9.67805e-71
0.000100000	1.01379e-73	1.10140e-74	6.32223e-75	8.26150e-75	1.92001e-74
1.00000e-05	3.37699e-77	6.43457e-78	5.06552e-78	8.28159e-78	2.32414e-77
1.00000e-06	6.53561e-80	2.02486e-80	2.09063e-80	4.18386e-80	1.45389e-79
1.00000e-07	5.66543e-82	2.69342e-82	3.61763e-82	9.13790e-82	4.28306e-81
1.00000e-08	1.84896e-83	1.26163e-83	2.07307e-83	6.11213e-83	3.32394e-82
1.00000e-09	1.44314e-84	1.10853e-84	1.91078e-84	5.80028e-84	3.22670e-83

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	3.27449e-64	5.07016e-63	1.20102e-61	5.19684e-60	4.62634e-58
1.00000e+07	3.18935e-62	4.91654e-61	1.15963e-59	4.99811e-58	4.43532e-56
1.00000e+06	2.52903e-60	3.77027e-59	8.62025e-58	3.61598e-56	3.14180e-54
100000.	7.13373e-59	9.35885e-58	1.90383e-56	7.20576e-55	5.76410e-53
10000.0	9.21585e-60	6.40592e-59	7.81944e-58	2.26303e-56	1.85607e-54
1000.00	1.14384e-61	2.54999e-60	1.21014e-58	9.60191e-57	1.17411e-54
100.000	2.49359e-62	3.35516e-61	7.95928e-60	3.77738e-58	3.90827e-56
10.0000	5.55817e-64	6.13517e-63	1.51363e-61	9.50531e-60	1.40160e-57
1.00000	2.91229e-63	3.38684e-62	8.69593e-61	5.55332e-59	8.05612e-57
0.100000	2.45505e-63	2.21892e-62	4.55050e-61	2.35945e-59	2.82240e-57
0.0100000	4.59139e-66	2.93843e-65	4.58912e-64	1.93345e-62	2.04710e-60
0.00100000	3.28364e-70	2.20375e-69	3.92924e-68	2.59464e-66	9.45807e-64

0.000100000	7.81616e-74	7.27802e-73	4.04703e-71	2.14894e-68	3.83218e-65
1.00000e-05	1.24392e-76	3.15290e-75	1.14069e-72	1.50898e-69	3.49653e-66
1.00000e-06	1.32692e-78	1.24492e-76	9.39292e-74	1.44757e-70	3.46331e-67
1.00000e-07	6.88603e-80	1.07662e-77	9.18206e-75	1.44129e-71	3.45999e-68
1.00000e-08	6.26655e-81	1.05909e-78	9.16045e-76	1.44066e-72	3.45966e-69
1.00000e-09	6.20410e-82	1.05731e-79	9.15827e-77	1.44060e-73	3.45962e-70

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	6.51409e-56	1.17509e-53	2.01398e-51	4.46562e-49	8.01416e-47
1.00000e+07	6.22862e-54	1.12126e-51	1.91837e-49	4.25268e-47	7.63441e-45
1.00000e+06	4.33744e-52	7.70741e-50	1.30473e-47	2.89005e-45	5.20254e-43
100000.	7.43599e-51	1.25488e-48	2.03902e-46	4.51015e-44	8.24155e-42
10000.0	2.74704e-52	5.40254e-50	1.01605e-47	2.59464e-45	6.08951e-43
1000.00	1.89114e-52	3.47122e-50	5.97035e-48	1.05062e-45	1.49768e-43
100.000	6.68453e-54	1.52624e-51	3.37486e-49	9.64463e-47	2.16847e-44
10.0000	2.68916e-55	6.49532e-53	1.43938e-50	5.39630e-48	1.63440e-45
1.00000	1.47597e-54	3.33556e-52	6.71718e-50	2.24065e-47	5.88107e-45
0.100000	4.34090e-55	8.45144e-53	1.50893e-50	4.78925e-48	1.27510e-45
0.0100000	3.11217e-58	7.41105e-56	2.12050e-53	1.39768e-50	7.30048e-48
0.00100000	7.99580e-61	9.18595e-58	7.51625e-55	7.32946e-52	4.21571e-49
0.000100000	5.96454e-62	8.39423e-59	7.34187e-56	7.18870e-53	4.08618e-50
1.00000e-05	5.80559e-63	8.33300e-60	7.33217e-57	7.17912e-54	4.07496e-51
1.00000e-06	5.78997e-64	8.32713e-61	7.33134e-58	7.17823e-55	4.07386e-52
1.00000e-07	5.78842e-65	8.32654e-62	7.33126e-59	7.17814e-56	4.07375e-53
1.00000e-08	5.78826e-66	8.32649e-63	7.33125e-60	7.17813e-57	4.07374e-54
1.00000e-09	5.78825e-67	8.32648e-64	7.33125e-61	7.17813e-58	4.07374e-55

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.11857e-44	1.33344e-42	1.82652e-40	2.03548e-38	1.50852e-36
1.00000e+07	1.06643e-42	1.27398e-40	1.75294e-38	1.96549e-36	1.46554e-34
1.00000e+06	7.31155e-41	8.86715e-39	1.25976e-36	1.47834e-34	1.15634e-32
100000.	1.19354e-39	1.55023e-37	2.53365e-35	3.65437e-33	3.62808e-31
10000.0	1.25685e-40	2.87780e-38	1.10759e-35	4.51041e-33	1.47033e-30
1000.00	1.69282e-41	1.88975e-39	6.93201e-37	6.65443e-34	1.81651e-30
100.000	3.65800e-42	5.19148e-40	1.16971e-37	7.67864e-35	1.85889e-30
10.0000	3.84114e-43	8.51305e-41	2.76838e-38	1.29193e-35	1.86423e-30
1.00000	1.19737e-42	2.44589e-40	7.68807e-38	2.55695e-35	1.87023e-30
0.100000	2.80801e-43	7.13677e-41	3.54586e-38	2.38213e-35	1.88076e-30
0.0100000	2.86550e-45	1.46530e-42	1.93653e-39	3.54846e-36	1.88398e-30
0.00100000	1.66756e-46	9.11177e-44	1.57093e-40	3.67111e-37	1.88436e-30
0.000100000	1.59062e-47	8.63601e-45	1.53270e-41	3.68283e-38	1.88440e-30
1.00000e-05	1.58338e-48	8.58936e-46	1.52886e-42	3.68399e-39	1.88441e-30
1.00000e-06	1.58266e-49	8.58471e-47	1.52848e-43	3.68411e-40	1.88441e-30
1.00000e-07	1.58258e-50	8.58424e-48	1.52844e-44	3.68412e-41	1.88441e-30
1.00000e-08	1.58258e-51	8.58420e-49	1.52844e-45	3.68412e-42	1.88441e-30
1.00000e-09	1.58258e-52	8.58419e-50	1.52844e-46	3.68412e-43	1.88441e-30

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	4.18929e-35	9.15712e-34	1.24089e-32	1.17684e-31	9.28615e-31
1.00000e+07	4.06883e-33	8.87292e-32	1.19887e-30	1.13459e-29	8.93390e-29
1.00000e+06	3.20611e-31	6.87446e-30	9.10039e-29	8.49243e-28	6.59568e-27
100000.	1.00443e-29	2.01843e-28	2.48329e-27	2.21122e-26	1.64184e-25
10000.0	4.23752e-29	7.90215e-28	8.97038e-27	7.59409e-26	5.37985e-25
1000.00	5.37203e-29	9.85061e-28	1.09869e-26	9.19960e-26	6.45201e-25
100.000	5.51800e-29	1.00986e-27	1.12406e-26	9.40014e-26	6.58503e-25
10.0000	5.53654e-29	1.01319e-27	1.12767e-26	9.42969e-26	6.60530e-25
1.00000	5.55575e-29	1.01724e-27	1.13261e-26	9.47272e-26	6.63654e-25
0.100000	5.58710e-29	1.02281e-27	1.13856e-26	9.52137e-26	6.66984e-25
0.0100000	5.59643e-29	1.02427e-27	1.14001e-26	9.53269e-26	6.67727e-25
0.00100000	5.59755e-29	1.02444e-27	1.14018e-26	9.53398e-26	6.67812e-25
0.000100000	5.59766e-29	1.02446e-27	1.14020e-26	9.53411e-26	6.67820e-25
1.00000e-05	5.59767e-29	1.02446e-27	1.14020e-26	9.53413e-26	6.67821e-25
1.00000e-06	5.59767e-29	1.02446e-27	1.14020e-26	9.53413e-26	6.67822e-25
1.00000e-07	5.59768e-29	1.02446e-27	1.14020e-26	9.53413e-26	6.67822e-25
1.00000e-08	5.59768e-29	1.02446e-27	1.14020e-26	9.53413e-26	6.67822e-25
1.00000e-09	5.59768e-29	1.02446e-27	1.14020e-26	9.53413e-26	6.67822e-25

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	6.30608e-30	3.72348e-29	1.93706e-28	7.85614e-23	3.74830e-27
1.00000e+07	6.05381e-28	3.56675e-27	1.85144e-26	4.88462e-21	3.56658e-25
1.00000e+06	4.40793e-26	2.56157e-25	1.31163e-24	7.06614e-20	2.45927e-23
100000.	1.04935e-24	5.83798e-24	2.86488e-23	2.65418e-19	4.94938e-22
10000.0	3.28658e-24	1.75212e-23	8.25977e-23	3.59371e-19	1.32626e-21
1000.00	3.90442e-24	2.06335e-23	9.64875e-23	1.63305e-20	1.52736e-21
100.000	3.98058e-24	2.10149e-23	9.81800e-23	5.70600e-22	1.55161e-21
10.0000	3.99261e-24	2.10774e-23	9.84684e-23	4.03177e-22	1.55608e-21

1.00000	4.01215e-24	2.11838e-23	9.89794e-23	3.79576e-22	1.56455e-21
0.100000	4.03178e-24	2.12849e-23	9.94395e-23	3.61411e-22	1.57145e-21
0.0100000	4.03600e-24	2.13058e-23	9.95314e-23	3.60529e-22	1.57275e-21
0.00100000	4.03647e-24	2.13081e-23	9.95416e-23	3.60473e-22	1.57289e-21
0.000100000	4.03652e-24	2.13083e-23	9.95427e-23	3.60468e-22	1.57290e-21
1.00000e-05	4.03653e-24	2.13084e-23	9.95428e-23	3.60468e-22	1.57291e-21
1.00000e-06	4.03653e-24	2.13084e-23	9.95428e-23	3.60468e-22	1.57291e-21
1.00000e-07	4.03653e-24	2.13084e-23	9.95428e-23	3.60468e-22	1.57291e-21
1.00000e-08	4.03653e-24	2.13084e-23	9.95428e-23	3.60468e-22	1.57291e-21
1.00000e-09	4.03653e-24	2.13084e-23	9.95428e-23	3.60468e-22	1.57291e-21

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	8.20408e-19	5.32954e-14	1.62341e-11	2.91463e-09	1.22362e-07
1.00000e+07	8.08230e-16	6.30141e-11	3.78248e-09	2.53294e-08	8.78866e-08
1.00000e+06	8.33514e-14	1.30431e-09	5.14790e-08	1.86604e-07	3.12578e-07
100000.	2.49372e-13	7.26607e-10	4.24471e-08	2.12368e-07	3.87494e-07
10000.0	3.31007e-14	5.45518e-11	7.99401e-09	9.26366e-08	2.50015e-07
1000.00	7.69491e-16	3.34720e-12	1.82508e-09	3.85931e-08	1.28479e-07
100.000	4.95643e-17	4.82156e-13	4.69928e-10	1.13560e-08	3.64223e-08
10.0000	2.16237e-17	8.31852e-14	7.12082e-11	1.63233e-09	5.13559e-09
1.00000	1.85394e-17	2.03989e-14	7.86553e-12	1.80918e-10	8.05225e-10
0.100000	1.81728e-17	1.36364e-14	1.74073e-12	4.24179e-11	3.83302e-10
0.0100000	1.81355e-17	1.29684e-14	1.16087e-12	2.93982e-11	3.42941e-10
0.00100000	1.81318e-17	1.29017e-14	1.10383e-12	2.81353e-11	3.39014e-10
0.000100000	1.81314e-17	1.28950e-14	1.09816e-12	2.80110e-11	3.38627e-10
1.00000e-05	1.81314e-17	1.28943e-14	1.09759e-12	2.79986e-11	3.38589e-10
1.00000e-06	1.81314e-17	1.28943e-14	1.09754e-12	2.79974e-11	3.38585e-10
1.00000e-07	1.81314e-17	1.28942e-14	1.09753e-12	2.79973e-11	3.38585e-10
1.00000e-08	1.81314e-17	1.28942e-14	1.09753e-12	2.79973e-11	3.38585e-10
1.00000e-09	1.81314e-17	1.28942e-14	1.09753e-12	2.79973e-11	3.38585e-10

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	1.11661e-06	4.55978e-06	1.10843e-05	1.66026e-05	1.80391e-05
1.00000e+07	3.94390e-07	1.99328e-06	7.04396e-06	1.51074e-05	2.38805e-05
1.00000e+06	4.51555e-07	8.92854e-07	2.55996e-06	5.34457e-06	9.08071e-06
100000.	5.28426e-07	6.86604e-07	1.04552e-06	1.61041e-06	2.45660e-06
10000.0	3.76393e-07	4.50595e-07	5.27598e-07	6.69836e-07	9.92358e-07
1000.00	1.87219e-07	1.97555e-07	2.11910e-07	3.01609e-07	5.82813e-07
100.000	4.63604e-08	4.89054e-08	7.79217e-08	1.88994e-07	4.90270e-07
10.0000	7.79984e-09	1.69742e-08	5.47845e-08	1.72791e-07	4.78790e-07
1.00000	3.01193e-09	1.33633e-08	5.23440e-08	1.71164e-07	4.77674e-07
0.100000	2.54536e-09	1.30139e-08	5.21095e-08	1.71008e-07	4.77568e-07
0.0100000	2.50035e-09	1.29802e-08	5.20868e-08	1.70993e-07	4.77557e-07
0.00100000	2.49595e-09	1.29769e-08	5.20846e-08	1.70991e-07	4.77556e-07
0.000100000	2.49552e-09	1.29765e-08	5.20844e-08	1.70991e-07	4.77556e-07
1.00000e-05	2.49548e-09	1.29765e-08	5.20844e-08	1.70991e-07	4.77556e-07
1.00000e-06	2.49547e-09	1.29765e-08	5.20844e-08	1.70991e-07	4.77556e-07
1.00000e-07	2.49547e-09	1.29765e-08	5.20844e-08	1.70991e-07	4.77556e-07
1.00000e-08	2.49547e-09	1.29765e-08	5.20844e-08	1.70991e-07	4.77556e-07
1.00000e-09	2.49547e-09	1.29765e-08	5.20844e-08	1.70991e-07	4.77556e-07

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	1.73138e-05	1.67101e-05	0.000765455	0.000885437	0.000918791
1.00000e+07	3.15458e-05	3.66609e-05	0.000885244	0.000871201	0.000701602
1.00000e+06	1.40026e-05	1.77753e-05	0.000352622	0.000280472	0.000219778
100000.	3.87579e-06	5.57702e-06	6.75900e-05	7.30385e-05	0.000101466
10000.0	1.70878e-06	3.06308e-06	1.95205e-05	4.20062e-05	8.48618e-05
1000.00	1.25385e-06	2.61435e-06	1.32169e-05	3.81540e-05	8.28683e-05
100.000	1.17615e-06	2.55191e-06	1.25081e-05	3.77520e-05	8.26671e-05
10.0000	1.16766e-06	2.54589e-06	1.24381e-05	3.77135e-05	8.26478e-05
1.00000	1.16686e-06	2.54535e-06	1.24313e-05	3.77097e-05	8.26460e-05
0.100000	1.16678e-06	2.54530e-06	1.24306e-05	3.77094e-05	8.26458e-05
0.0100000	1.16678e-06	2.54530e-06	1.24306e-05	3.77093e-05	8.26458e-05
0.00100000	1.16677e-06	2.54530e-06	1.24306e-05	3.77093e-05	8.26458e-05
0.000100000	1.16677e-06	2.54530e-06	1.24306e-05	3.77093e-05	8.26458e-05
1.00000e-05	1.16677e-06	2.54530e-06	1.24306e-05	3.77093e-05	8.26458e-05
1.00000e-06	1.16677e-06	2.54530e-06	1.24306e-05	3.77093e-05	8.26458e-05
1.00000e-07	1.16677e-06	2.54530e-06	1.24306e-05	3.77093e-05	8.26458e-05
1.00000e-08	1.16677e-06	2.54530e-06	1.24306e-05	3.77093e-05	8.26458e-05
1.00000e-09	1.16677e-06	2.54530e-06	1.24306e-05	3.77093e-05	8.26458e-05

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.000884520	0.000806339	0.000713775	0.000630511	0.000567394
1.00000e+07	0.000538932	0.000440685	0.000400380	0.000394733	0.000404729
1.00000e+06	0.000212981	0.000243514	0.000288102	0.000332730	0.000371100
100000.	0.000151945	0.000212809	0.000272704	0.000325017	0.000367262

10000.0	0.000143853	0.000208979	0.000270908	0.000324178	0.000366874
1000.00	0.000142941	0.000208575	0.000270729	0.000324098	0.000366839
100.000	0.000142852	0.000208536	0.000270712	0.000324091	0.000366836
10.0000	0.000142843	0.000208532	0.000270710	0.000324090	0.000366835
1.00000	0.000142842	0.000208532	0.000270710	0.000324090	0.000366835
0.100000	0.000142842	0.000208532	0.000270710	0.000324090	0.000366835
0.0100000	0.000142842	0.000208532	0.000270710	0.000324090	0.000366835
0.00100000	0.000142842	0.000208532	0.000270710	0.000324090	0.000366835
0.000100000	0.000142842	0.000208532	0.000270710	0.000324090	0.000366835
1.00000e-05	0.000142842	0.000208532	0.000270710	0.000324090	0.000366835
1.00000e-06	0.000142842	0.000208532	0.000270710	0.000324090	0.000366835
1.00000e-07	0.000142842	0.000208532	0.000270710	0.000324090	0.000366835
1.00000e-08	0.000142842	0.000208532	0.000270710	0.000324090	0.000366835
1.00000e-09	0.000142842	0.000208532	0.000270710	0.000324090	0.000366835

Pa\K | 3750.00 4000.00

1.00000e+08	0.000524724	0.000497926
1.00000e+07	0.000419230	0.000432869
1.00000e+06	0.000401313	0.000423590
100000.	0.000399438	0.000422712
10000.0	0.000399262	0.000422638
1000.00	0.000399247	0.000422632
100.000	0.000399246	0.000422632
10.0000	0.000399246	0.000422632
1.00000	0.000399246	0.000422632
0.100000	0.000399246	0.000422632
0.0100000	0.000399246	0.000422632
0.00100000	0.000399246	0.000422632
0.000100000	0.000399246	0.000422632
1.00000e-05	0.000399246	0.000422632
1.00000e-06	0.000399246	0.000422632
1.00000e-07	0.000399246	0.000422632
1.00000e-08	0.000399246	0.000422632
1.00000e-09	0.000399246	0.000422632

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Pa\K | 20.0000 30.0000 40.0000 50.0000 60.0000

1.00000e+08	5.37796e-43	2.93609e-42	1.19193e-41	4.91345e-41	2.21400e-40
1.00000e+07	5.37498e-41	2.93281e-40	1.18995e-39	4.90264e-39	2.20795e-38
1.00000e+06	5.34539e-39	2.90046e-38	1.17054e-37	4.79748e-37	2.14951e-36
100000.	5.06896e-37	2.61726e-36	1.01026e-35	3.97509e-35	1.71517e-34
10000.0	3.42910e-35	1.38997e-34	4.46426e-34	1.50023e-33	5.61710e-33
1000.00	5.54077e-34	7.20284e-34	9.50512e-34	1.54013e-33	3.13217e-33
100.000	2.77669e-35	4.87418e-36	4.42553e-36	7.07531e-36	1.47680e-35
10.0000	5.03110e-37	1.44759e-37	1.15351e-37	1.89945e-37	4.75250e-37
1.00000	3.46902e-38	2.90168e-38	2.97901e-38	4.05213e-38	7.43963e-38
0.100000	1.60587e-39	2.75992e-39	6.98223e-39	2.02926e-38	7.12225e-38
0.0100000	9.93805e-39	2.52330e-38	6.27841e-38	1.77206e-37	6.04419e-37
0.00100000	7.20130e-38	1.37351e-37	2.67728e-37	6.10500e-37	1.72272e-36
0.000100000	8.18125e-38	4.82404e-38	4.47126e-38	6.04523e-38	1.15505e-37
1.00000e-05	1.40236e-39	3.31641e-40	2.23084e-40	2.62803e-40	4.75210e-40
1.00000e-06	5.14823e-42	1.45425e-42	1.15609e-42	1.58038e-42	3.37862e-42
1.00000e-07	4.78085e-44	2.00202e-44	2.04769e-44	3.51191e-44	9.96757e-44
1.00000e-08	1.57098e-45	9.40956e-46	1.17614e-45	2.35277e-45	7.71757e-45
1.00000e-09	1.22699e-46	8.27047e-47	1.08432e-46	2.23307e-46	7.48932e-46

Pa\K | 70.0000 80.0000 90.0000 100.000 110.000

1.00000e+08	1.15508e-39	7.59924e-39	7.22424e-38	1.16444e-36	3.35015e-35
1.00000e+07	1.15132e-37	7.57088e-37	7.19460e-36	1.15954e-34	3.33723e-33
1.00000e+06	1.11527e-35	7.30015e-35	6.91303e-34	1.11318e-32	3.21473e-31
100000.	8.59741e-34	5.46092e-33	5.06249e-32	8.12818e-31	2.41116e-29
10000.0	2.47541e-32	1.40543e-31	1.20553e-30	1.93826e-29	6.61985e-28
1000.00	8.36152e-33	3.33382e-32	2.81940e-31	8.67370e-30	1.24753e-27
100.000	4.02941e-35	1.73152e-34	2.96957e-33	4.43705e-31	1.05286e-27
10.0000	1.64394e-36	8.79433e-36	1.83041e-34	3.86727e-32	1.02769e-27
1.00000	1.98715e-37	9.63949e-37	2.09949e-35	4.11655e-33	1.02511e-27
0.100000	3.35366e-37	2.57296e-36	4.36004e-35	2.09660e-33	1.02498e-27
0.0100000	2.77089e-36	2.07174e-35	3.36443e-34	1.34755e-32	1.02614e-27
0.00100000	6.66065e-36	4.27820e-35	6.20832e-34	2.49651e-32	1.02886e-27
0.000100000	3.31012e-37	1.72687e-36	2.76443e-35	2.36376e-33	1.02870e-27
1.00000e-05	1.38460e-39	9.83938e-39	6.19664e-37	1.67214e-34	1.02860e-27
1.00000e-06	1.39093e-41	2.79157e-40	4.78051e-38	1.59878e-35	1.02859e-27
1.00000e-07	6.63002e-43	2.31245e-41	4.65650e-39	1.59151e-36	1.02859e-27
1.00000e-08	5.94749e-44	2.26696e-42	4.64429e-40	1.59078e-37	1.02859e-27
1.00000e-09	5.87917e-45	2.26243e-43	4.64307e-41	1.59071e-38	1.02859e-27

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	1.15981e-33	3.34537e-32	7.07654e-31	1.09804e-29	1.28835e-28
1.00000e+07	1.15575e-31	3.33408e-30	7.05235e-29	1.09411e-27	1.28341e-26
1.00000e+06	1.11718e-29	3.22692e-28	6.82306e-27	1.05697e-25	1.23701e-24
100000.	8.59952e-28	2.50927e-26	5.29991e-25	8.14384e-24	9.40909e-23
10000.0	2.66386e-26	8.14538e-25	1.72503e-23	2.59181e-22	2.88199e-21
1000.00	8.81120e-26	3.24874e-24	7.29738e-23	1.09790e-21	1.18650e-20
100.000	9.82008e-26	3.91355e-24	9.06269e-23	1.37639e-21	1.48551e-20
10.0000	9.91850e-26	3.98942e-24	9.27456e-23	1.41049e-21	1.52235e-20
1.00000	9.92876e-26	3.99735e-24	9.29683e-23	1.41408e-21	1.52623e-20
0.100000	9.93079e-26	3.99855e-24	9.30006e-23	1.41461e-21	1.52683e-20
0.0100000	9.93904e-26	4.00176e-24	9.30773e-23	1.41585e-21	1.52827e-20
0.00100000	9.96134e-26	4.01037e-24	9.32749e-23	1.41885e-21	1.53152e-20
0.000100000	9.96766e-26	4.01354e-24	9.33530e-23	1.42004e-21	1.53277e-20
1.00000e-05	9.96813e-26	4.01388e-24	9.33623e-23	1.42019e-21	1.53292e-20
1.00000e-06	9.96817e-26	4.01392e-24	9.33633e-23	1.42020e-21	1.53294e-20
1.00000e-07	9.96818e-26	4.01392e-24	9.33634e-23	1.42020e-21	1.53294e-20
1.00000e-08	9.96818e-26	4.01392e-24	9.33634e-23	1.42020e-21	1.53294e-20
1.00000e-09	9.96818e-26	4.01392e-24	9.33634e-23	1.42020e-21	1.53294e-20

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.18669e-27	8.88361e-27	5.57028e-26	3.00068e-25	1.41861e-24
1.00000e+07	1.18175e-25	8.84311e-25	5.54221e-24	2.98386e-23	1.40972e-22
1.00000e+06	1.13563e-23	8.46698e-23	5.28356e-22	2.83029e-21	1.32941e-20
100000.	8.49561e-22	6.20971e-21	3.78746e-20	1.97727e-19	9.02482e-19
10000.0	2.47616e-20	1.70700e-19	9.74662e-19	4.73272e-18	1.99766e-17
1000.00	9.74110e-20	6.35316e-19	3.41191e-18	1.55321e-17	6.13706e-17
100.000	1.21097e-19	7.81758e-19	4.14891e-18	1.86513e-17	7.27628e-17
10.0000	1.24012e-19	7.99695e-19	4.23856e-18	1.90276e-17	7.41253e-17
1.00000	1.24320e-19	8.01593e-19	4.24806e-18	1.90676e-17	7.42706e-17
0.100000	1.24370e-19	8.01924e-19	4.24989e-18	1.90762e-17	7.43069e-17
0.0100000	1.24498e-19	8.02835e-19	4.25521e-18	1.91025e-17	7.44195e-17
0.00100000	1.24764e-19	8.04548e-19	4.26426e-18	1.91429e-17	7.45745e-17
0.000100000	1.24861e-19	8.05142e-19	4.26721e-18	1.91552e-17	7.46189e-17
1.00000e-05	1.24873e-19	8.05216e-19	4.26757e-18	1.91567e-17	7.46243e-17
1.00000e-06	1.24875e-19	8.05224e-19	4.26761e-18	1.91569e-17	7.46248e-17
1.00000e-07	1.24875e-19	8.05224e-19	4.26761e-18	1.91569e-17	7.46249e-17
1.00000e-08	1.24875e-19	8.05224e-19	4.26761e-18	1.91569e-17	7.46249e-17
1.00000e-09	1.24875e-19	8.05224e-19	4.26761e-18	1.91569e-17	7.46249e-17

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	5.99148e-24	2.29451e-23	8.06740e-23	2.63153e-22	8.03412e-22
1.00000e+07	5.94934e-22	2.27633e-21	7.99523e-21	2.60489e-20	7.94196e-20
1.00000e+06	5.57319e-20	2.11630e-19	7.36959e-19	2.37791e-18	7.17152e-18
100000.	3.66546e-18	1.34434e-17	4.50715e-17	1.39557e-16	4.02531e-16
10000.0	7.46447e-17	2.50702e-16	7.66572e-16	2.15714e-15	5.63798e-15
1000.00	2.14605e-16	6.74942e-16	1.93503e-15	5.11466e-15	1.25838e-14
100.000	2.51266e-16	7.80689e-16	2.21230e-15	5.78339e-15	1.40821e-14
10.0000	2.55613e-16	7.93117e-16	2.24462e-15	5.86070e-15	1.42541e-14
1.00000	2.56079e-16	7.94459e-16	2.24814e-15	5.86927e-15	1.42735e-14
0.100000	2.56215e-16	7.94927e-16	2.24963e-15	5.87366e-15	1.42857e-14
0.0100000	2.56640e-16	7.96364e-16	2.25403e-15	5.88601e-15	1.43177e-14
0.00100000	2.57164e-16	7.97951e-16	2.25838e-15	5.89695e-15	1.43432e-14
0.000100000	2.57305e-16	7.98352e-16	2.25941e-15	5.89940e-15	1.43486e-14
1.00000e-05	2.57322e-16	7.98399e-16	2.25953e-15	5.89968e-15	1.43492e-14
1.00000e-06	2.57324e-16	7.98403e-16	2.25955e-15	5.89971e-15	1.43492e-14
1.00000e-07	2.57324e-16	7.98404e-16	2.25955e-15	5.89971e-15	1.43492e-14
1.00000e-08	2.57324e-16	7.98404e-16	2.25955e-15	5.89971e-15	1.43492e-14
1.00000e-09	2.57324e-16	7.98404e-16	2.25955e-15	5.89971e-15	1.43492e-14

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	2.31286e-21	6.31784e-21	1.64625e-20	6.02022e-18	9.86929e-20
1.00000e+07	2.28277e-19	6.22455e-19	1.61867e-18	5.28239e-16	9.65734e-18
1.00000e+06	2.03643e-17	5.47839e-17	1.40354e-16	2.64122e-14	8.09229e-16
100000.	1.08940e-15	2.78344e-15	6.74913e-15	2.92712e-13	3.45032e-14
10000.0	1.37945e-14	3.18095e-14	6.95377e-14	3.32567e-13	2.88759e-13
1000.00	2.90541e-14	6.33920e-14	1.31490e-13	2.27030e-13	4.95879e-13
100.000	3.21994e-14	6.96224e-14	1.43208e-13	2.13989e-13	5.32106e-13
10.0000	3.25579e-14	7.03280e-14	1.44528e-13	2.12618e-13	5.36151e-13
1.00000	3.25995e-14	7.04131e-14	1.44695e-13	2.12755e-13	5.36742e-13
0.100000	3.26314e-14	7.04919e-14	1.44880e-13	2.13473e-13	5.37628e-13
0.0100000	3.27088e-14	7.06673e-14	1.45255e-13	2.13786e-13	5.39088e-13
0.00100000	3.27640e-14	7.07799e-14	1.45472e-13	2.13641e-13	5.39785e-13
0.000100000	3.27751e-14	7.08013e-14	1.45511e-13	2.13603e-13	5.39900e-13
1.00000e-05	3.27763e-14	7.08037e-14	1.45515e-13	2.13599e-13	5.39913e-13
1.00000e-06	3.27765e-14	7.08039e-14	1.45516e-13	2.13599e-13	5.39914e-13

1.00000e-07	3.27765e-14	7.08040e-14	1.45516e-13	2.13599e-13	5.39914e-13
1.00000e-08	3.27765e-14	7.08040e-14	1.45516e-13	2.13599e-13	5.39914e-13
1.00000e-09	3.27765e-14	7.08040e-14	1.45516e-13	2.13599e-13	5.39914e-13

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	3.53058e-15	1.62703e-12	5.32126e-10	6.28441e-08	1.26359e-06
1.00000e+07	2.53757e-13	2.74524e-10	1.72316e-08	2.13947e-07	1.36544e-06
1.00000e+06	7.91409e-12	6.24414e-09	1.87930e-07	7.19702e-07	1.57550e-06
100000.	4.32424e-11	8.16617e-09	2.03781e-07	8.35273e-07	1.58755e-06
10000.0	4.55579e-11	2.58063e-09	6.50528e-08	4.52747e-07	1.15303e-06
1000.00	3.88107e-11	1.21164e-09	2.46602e-08	2.31334e-07	7.14401e-07
100.000	3.78617e-11	1.03708e-09	1.38027e-08	1.08192e-07	3.60803e-07
10.0000	3.77587e-11	1.00857e-09	1.06378e-08	6.41636e-08	2.40315e-07
1.00000	3.78393e-11	1.00762e-09	1.01670e-08	5.76883e-08	2.23825e-07
0.100000	3.79532e-11	1.00927e-09	1.01293e-08	5.70880e-08	2.22250e-07
0.0100000	3.79893e-11	1.00966e-09	1.01265e-08	5.70332e-08	2.22101e-07
0.00100000	3.79916e-11	1.00971e-09	1.01263e-08	5.70280e-08	2.22087e-07
0.000100000	3.79916e-11	1.00971e-09	1.01262e-08	5.70274e-08	2.22085e-07
1.00000e-05	3.79916e-11	1.00971e-09	1.01262e-08	5.70274e-08	2.22085e-07
1.00000e-06	3.79916e-11	1.00971e-09	1.01262e-08	5.70274e-08	2.22085e-07
1.00000e-07	3.79916e-11	1.00971e-09	1.01262e-08	5.70274e-08	2.22085e-07
1.00000e-08	3.79916e-11	1.00971e-09	1.01262e-08	5.70274e-08	2.22085e-07
1.00000e-09	3.79916e-11	1.00971e-09	1.01262e-08	5.70274e-08	2.22085e-07

Pa\K	900.000	1000.00	1100.00	1200.00	1300.00
1.00000e+08	7.01336e-06	2.07671e-05	4.22714e-05	5.82924e-05	6.11755e-05
1.00000e+07	5.29541e-06	1.59647e-05	3.90142e-05	6.96104e-05	9.90450e-05
1.00000e+06	3.43558e-06	8.20478e-06	1.88685e-05	3.38138e-05	5.23041e-05
100000.	2.63198e-06	4.58919e-06	8.37041e-06	1.40967e-05	2.24186e-05
10000.0	2.01097e-06	3.28826e-06	5.55442e-06	9.43875e-06	1.57342e-05
1000.00	1.33909e-06	2.36125e-06	4.35504e-06	8.01633e-06	1.41460e-05
100.000	8.30886e-07	1.83455e-06	3.87944e-06	7.61317e-06	1.38139e-05
10.0000	6.92446e-07	1.72321e-06	3.79964e-06	7.55744e-06	1.37752e-05
1.00000	6.75548e-07	1.71095e-06	3.79149e-06	7.55201e-06	1.37716e-05
0.100000	6.73936e-07	1.70979e-06	3.79072e-06	7.55150e-06	1.37712e-05
0.0100000	6.73783e-07	1.70968e-06	3.79065e-06	7.55145e-06	1.37712e-05
0.00100000	6.73768e-07	1.70967e-06	3.79064e-06	7.55145e-06	1.37712e-05
0.000100000	6.73766e-07	1.70967e-06	3.79064e-06	7.55145e-06	1.37712e-05
1.00000e-05	6.73766e-07	1.70967e-06	3.79064e-06	7.55145e-06	1.37712e-05
1.00000e-06	6.73766e-07	1.70967e-06	3.79064e-06	7.55145e-06	1.37712e-05
1.00000e-07	6.73766e-07	1.70967e-06	3.79064e-06	7.55145e-06	1.37712e-05
1.00000e-08	6.73766e-07	1.70967e-06	3.79064e-06	7.55145e-06	1.37712e-05
1.00000e-09	6.73766e-07	1.70967e-06	3.79064e-06	7.55145e-06	1.37712e-05

Pa\K	1400.00	1500.00	1750.00	2000.00	2250.00
1.00000e+08	5.77411e-05	5.50671e-05	0.000583628	0.000662251	0.000697022
1.00000e+07	0.000122833	0.000138560	0.000770543	0.000766248	0.000686221
1.00000e+06	7.34789e-05	9.04036e-05	0.000384241	0.000380364	0.000399975
100000.	3.39860e-05	4.77237e-05	0.000154813	0.000231846	0.000324056
10000.0	2.52769e-05	3.86619e-05	0.000115117	0.000209034	0.000313291
1000.00	2.35893e-05	3.71119e-05	0.000109873	0.000206194	0.000312013
100.000	2.33226e-05	3.69209e-05	0.000109338	0.000205933	0.000311896
10.0000	2.32970e-05	3.69081e-05	0.000109298	0.000205913	0.000311886
1.00000	2.32948e-05	3.69074e-05	0.000109295	0.000205912	0.000311885
0.100000	2.32946e-05	3.69074e-05	0.000109295	0.000205912	0.000311885
0.0100000	2.32946e-05	3.69074e-05	0.000109295	0.000205912	0.000311885
0.00100000	2.32946e-05	3.69074e-05	0.000109295	0.000205912	0.000311885
0.000100000	2.32946e-05	3.69074e-05	0.000109295	0.000205912	0.000311885
1.00000e-05	2.32946e-05	3.69074e-05	0.000109295	0.000205912	0.000311885
1.00000e-06	2.32946e-05	3.69074e-05	0.000109295	0.000205912	0.000311885
1.00000e-07	2.32946e-05	3.69074e-05	0.000109295	0.000205912	0.000311885
1.00000e-08	2.32946e-05	3.69074e-05	0.000109295	0.000205912	0.000311885
1.00000e-09	2.32946e-05	3.69074e-05	0.000109295	0.000205912	0.000311885

Pa\K	2500.00	2750.00	3000.00	3250.00	3500.00
1.00000e+08	0.000694208	0.000663738	0.000618673	0.000570057	0.000524052
1.00000e+07	0.000614720	0.000569960	0.000541350	0.000517403	0.000492704
1.00000e+06	0.000440850	0.000477214	0.000495852	0.000496466	0.000483738
100000.	0.000406496	0.000462605	0.000489961	0.000494275	0.000483055
10000.0	0.000402002	0.000460870	0.000489348	0.000494089	0.000483023
1000.00	0.000401507	0.000460696	0.000489294	0.000494077	0.000483024
100.000	0.000401462	0.000460681	0.000489289	0.000494077	0.000483024
10.0000	0.000401458	0.000460680	0.000489289	0.000494077	0.000483025
1.00000	0.000401457	0.000460680	0.000489289	0.000494077	0.000483025
0.100000	0.000401457	0.000460680	0.000489289	0.000494077	0.000483025
0.0100000	0.000401457	0.000460680	0.000489289	0.000494077	0.000483025

0.00100000	0.000401457	0.000460680	0.000489289	0.000494077	0.000483025
0.000100000	0.000401457	0.000460680	0.000489289	0.000494077	0.000483025
1.00000e-05	0.000401457	0.000460680	0.000489289	0.000494077	0.000483025
1.00000e-06	0.000401457	0.000460680	0.000489289	0.000494077	0.000483025
1.00000e-07	0.000401457	0.000460680	0.000489289	0.000494077	0.000483025
1.00000e-08	0.000401457	0.000460680	0.000489289	0.000494077	0.000483025
1.00000e-09	0.000401457	0.000460680	0.000489289	0.000494077	0.000483025

Pa\K	3750.00	4000.00
1.00000e+08	0.000482735	0.000446130
1.00000e+07	0.000466180	0.000438580
1.00000e+06	0.000462786	0.000437650
100000.	0.000462682	0.000437740
10000.0	0.000462697	0.000437767
1000.00	0.000462702	0.000437771
100.000	0.000462703	0.000437772
10.0000	0.000462703	0.000437772
1.00000	0.000462703	0.000437772
0.100000	0.000462703	0.000437772
0.0100000	0.000462703	0.000437772
0.00100000	0.000462703	0.000437772
0.000100000	0.000462703	0.000437772
1.00000e-05	0.000462703	0.000437772
1.00000e-06	0.000462703	0.000437772
1.00000e-07	0.000462703	0.000437772
1.00000e-08	0.000462703	0.000437772
1.00000e-09	0.000462703	0.000437772

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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	4.86150e-87	4.32542e-85	1.12571e-83	2.28201e-82	4.53919e-81
1.00000e+07	1.40392e-81	8.51269e-80	1.77077e-78	3.03998e-77	5.26588e-76
1.00000e+06	1.63887e-76	8.51314e-75	1.61892e-73	2.58768e-72	4.20703e-71
100000.	1.06658e-71	3.79894e-70	5.35086e-69	6.61487e-68	8.55262e-67
10000.0	1.01132e-67	1.36916e-66	1.02560e-65	7.70000e-65	6.46983e-64
1000.00	2.92210e-65	1.16009e-64	4.06829e-64	1.71040e-63	8.93551e-63
100.000	1.98217e-64	3.96312e-64	1.11098e-63	4.24257e-63	2.15569e-62
10.0000	7.16041e-64	1.89391e-63	6.04423e-63	2.46127e-62	1.29590e-61
1.00000	5.41672e-63	1.49092e-62	4.60089e-62	1.77456e-61	8.81112e-61
0.100000	3.11357e-62	5.36299e-62	1.09905e-61	2.96138e-61	1.07191e-60
0.0100000	8.70413e-63	2.32171e-63	1.50397e-63	1.83164e-63	3.70159e-63
0.00100000	4.13833e-66	3.19379e-67	1.39099e-67	1.45693e-67	2.80278e-67
0.000100000	3.00297e-70	3.26450e-71	1.86820e-71	2.42909e-71	5.60959e-71
1.00000e-05	1.00473e-73	1.91140e-74	1.49910e-74	2.43776e-74	6.79437e-74
1.00000e-06	1.94535e-76	6.01622e-77	6.18797e-77	1.23167e-76	4.24823e-76
1.00000e-07	1.68640e-78	8.00264e-79	1.07075e-78	2.68991e-78	1.25072e-77
1.00000e-08	5.50360e-80	3.74845e-80	6.13573e-80	1.79915e-79	9.70446e-79
1.00000e-09	4.29559e-81	3.29356e-81	5.65535e-81	1.70734e-80	9.42030e-80

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	9.93903e-80	2.69122e-78	1.06004e-76	7.39748e-75	1.04148e-72
1.00000e+07	1.01553e-74	2.41705e-73	8.24697e-72	4.85155e-70	5.54863e-68
1.00000e+06	7.64489e-70	1.71784e-68	5.54120e-67	3.08917e-65	3.36334e-63
100000.	1.26093e-65	2.33677e-64	6.32622e-63	3.03569e-61	2.95294e-59
10000.0	6.46739e-63	8.42888e-62	1.69447e-60	6.70326e-59	6.23653e-57
1000.00	6.08697e-62	6.15798e-61	1.21506e-59	6.03990e-58	7.25658e-56
100.000	1.53274e-61	1.76842e-60	4.26370e-59	2.50233e-57	3.40618e-55
10.0000	9.47497e-61	1.13458e-59	2.91900e-58	1.86140e-56	2.73869e-54
1.00000	6.11566e-60	7.08864e-59	1.81340e-57	1.15352e-55	1.66646e-53
0.100000	5.63062e-60	5.10764e-59	1.04982e-57	5.44946e-56	6.51988e-54
0.0100000	1.24589e-62	7.97212e-62	1.24245e-60	5.21553e-59	5.49161e-57
0.00100000	9.45474e-67	6.29863e-66	1.10953e-64	7.09377e-63	2.41551e-60
0.000100000	2.26448e-70	2.06878e-69	1.08842e-67	5.44513e-65	9.31152e-62
1.00000e-05	3.58846e-73	8.68936e-72	2.98193e-69	3.78819e-66	8.46733e-63
1.00000e-06	3.79568e-75	3.38558e-73	2.44840e-70	3.63099e-67	8.38422e-64
1.00000e-07	1.96118e-76	2.92334e-74	2.39281e-71	3.61496e-68	8.37591e-65
1.00000e-08	1.78351e-77	2.87532e-75	2.38712e-72	3.61335e-69	8.37508e-66
1.00000e-09	1.76560e-78	2.87046e-76	2.38655e-73	3.61319e-70	8.37499e-67

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.35561e-70	6.93631e-68	1.97571e-65	6.26228e-63	1.46333e-60
1.00000e+07	9.69497e-66	2.11220e-63	4.32407e-61	1.09065e-58	2.19454e-56
1.00000e+06	5.60094e-61	1.16278e-58	2.25713e-56	5.44085e-54	1.04612e-51
100000.	4.49994e-57	8.74897e-55	1.60823e-52	3.88044e-50	7.56924e-48
10000.0	9.54943e-55	1.93199e-52	3.68412e-50	1.02752e-47	2.29923e-45

1000.00	1.22702e-53	2.58162e-51	4.96817e-49	1.48033e-46	3.58702e-44
100.000	6.14615e-53	1.38963e-50	2.83385e-48	9.47619e-46	2.49107e-43
10.0000	5.16328e-52	1.20458e-49	2.50254e-47	8.48576e-45	2.24261e-42
1.00000	3.03992e-51	6.83890e-49	1.37059e-46	4.54671e-44	1.18522e-41
0.100000	1.00215e-51	1.94848e-49	3.47144e-47	1.09836e-44	2.91158e-42
0.0100000	8.26524e-55	1.92294e-52	5.25142e-50	3.32220e-47	1.70436e-44
0.00100000	1.91199e-57	2.09357e-54	1.64355e-51	1.56136e-48	8.92390e-46
0.000100000	1.39423e-58	1.89030e-55	1.59299e-52	1.51852e-49	8.55782e-47
1.00000e-05	1.35493e-59	1.87471e-56	1.58981e-53	1.51533e-50	8.52546e-48
1.00000e-06	1.35108e-60	1.87321e-57	1.58952e-54	1.51502e-51	8.52227e-49
1.00000e-07	1.35069e-61	1.87306e-58	1.58950e-55	1.51499e-52	8.52195e-50
1.00000e-08	1.35065e-62	1.87305e-59	1.58949e-56	1.51499e-53	8.52192e-51
1.00000e-09	1.35065e-63	1.87305e-60	1.58949e-57	1.51499e-54	8.52192e-52

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	2.40461e-58	2.81092e-56	2.71913e-54	1.82781e-52	8.42866e-51
1.00000e+07	3.37263e-54	4.15762e-52	5.15202e-50	4.70605e-48	2.89981e-46
1.00000e+06	1.54361e-49	1.87616e-47	2.43061e-45	2.39045e-43	1.57182e-41
100000.	1.14556e-45	1.48228e-43	2.18507e-41	2.49652e-39	1.82604e-37
10000.0	3.97636e-43	6.20707e-41	1.21479e-38	1.90410e-36	1.75285e-34
1000.00	6.8168e-42	1.26735e-39	3.36196e-37	8.10355e-35	1.11421e-32
100.000	5.04481e-41	1.00236e-38	2.92858e-36	8.30809e-34	1.51687e-31
10.0000	4.55222e-40	9.08175e-38	2.67965e-35	7.76893e-33	1.50974e-30
1.00000	2.39251e-39	4.84101e-37	1.50630e-34	4.88919e-32	1.10417e-29
0.100000	6.37857e-40	1.61439e-37	8.00331e-35	5.35895e-32	2.99093e-29
0.0100000	6.74223e-42	3.59715e-39	4.89356e-36	8.97514e-33	3.59678e-29
0.00100000	3.64728e-43	2.21147e-40	4.05402e-37	9.50294e-34	3.67016e-29
0.000100000	3.44135e-44	2.08990e-41	3.96428e-38	9.55767e-35	3.67765e-29
1.00000e-05	3.42185e-45	2.07795e-42	3.95526e-39	9.56316e-36	3.67840e-29
1.00000e-06	3.41991e-46	2.07675e-43	3.95435e-40	9.56371e-37	3.67847e-29
1.00000e-07	3.41972e-47	2.07663e-44	3.95426e-41	9.56376e-38	3.67848e-29
1.00000e-08	3.41970e-48	2.07662e-45	3.95426e-42	9.56377e-39	3.67848e-29
1.00000e-09	3.41970e-49	2.07662e-46	3.95425e-43	9.56377e-40	3.67848e-29

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	2.49718e-49	6.36280e-48	1.11969e-46	1.37116e-45	1.38583e-44
1.00000e+07	9.56186e-45	3.04023e-43	5.93471e-42	6.90762e-41	6.58330e-40
1.00000e+06	5.19497e-40	1.67339e-38	3.24357e-37	3.66058e-36	3.37629e-35
100000.	5.90983e-36	1.79821e-34	3.25599e-33	3.46404e-32	3.01737e-31
10000.0	5.50744e-33	1.47163e-31	2.31050e-30	2.27368e-29	1.84244e-28
1000.00	3.35911e-31	7.69946e-30	1.04979e-28	9.67014e-28	7.39089e-27
100.000	4.54616e-30	1.00148e-28	1.32085e-27	1.19773e-26	9.03027e-26
10.0000	4.49928e-29	9.73178e-28	1.25976e-26	1.13294e-25	8.47694e-25
1.00000	3.17985e-28	6.33427e-27	7.59467e-26	6.59913e-25	4.78476e-24
0.100000	8.15051e-28	1.44587e-26	1.59770e-25	1.33324e-24	9.32739e-24
0.0100000	9.66930e-28	1.66569e-26	1.80848e-25	1.49492e-24	1.03728e-23
0.00100000	9.85251e-28	1.69153e-26	1.83292e-25	1.51349e-24	1.04918e-23
0.000100000	9.87121e-28	1.69416e-26	1.83541e-25	1.51538e-24	1.05039e-23
1.00000e-05	9.87309e-28	1.69442e-26	1.83566e-25	1.51557e-24	1.05051e-23
1.00000e-06	9.87327e-28	1.69445e-26	1.83568e-25	1.51558e-24	1.05052e-23
1.00000e-07	9.87329e-28	1.69445e-26	1.83568e-25	1.51559e-24	1.05052e-23
1.00000e-08	9.87329e-28	1.69445e-26	1.83568e-25	1.51559e-24	1.05052e-23
1.00000e-09	9.87329e-28	1.69445e-26	1.83568e-25	1.51559e-24	1.05052e-23

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	1.18986e-43	8.76906e-43	5.61637e-42	6.94420e-32	1.57753e-40
1.00000e+07	5.35747e-39	3.75544e-38	2.29999e-37	7.60391e-27	6.03228e-36
1.00000e+06	2.65903e-34	1.80277e-33	1.06748e-32	1.97455e-22	2.61648e-31
100000.	2.24841e-30	1.44445e-29	8.11509e-29	5.72571e-20	1.79627e-27
10000.0	1.28085e-27	7.70367e-27	4.06457e-26	1.79196e-19	7.99960e-25
1000.00	4.86330e-26	2.78094e-25	1.40051e-24	2.06165e-20	2.53708e-23
100.000	5.86769e-25	3.31738e-24	1.65360e-23	1.89386e-20	2.94274e-22
10.0000	5.46608e-24	3.06747e-23	1.51808e-22	6.56216e-20	2.66486e-21
1.00000	2.98960e-23	1.62767e-22	7.82457e-22	4.20153e-20	1.30090e-20
0.100000	5.63218e-23	2.97098e-22	1.38715e-21	9.27826e-21	2.19039e-20
0.0100000	6.21574e-23	3.25624e-22	1.51090e-21	7.51814e-21	2.36059e-20
0.00100000	6.28164e-23	3.28820e-22	1.52467e-21	7.41293e-21	2.37928e-20
0.000100000	6.28832e-23	3.29144e-22	1.52606e-21	7.40285e-21	2.38117e-20
1.00000e-05	6.28899e-23	3.29176e-22	1.52620e-21	7.40185e-21	2.38136e-20
1.00000e-06	6.28905e-23	3.29180e-22	1.52621e-21	7.40175e-21	2.38138e-20
1.00000e-07	6.28906e-23	3.29180e-22	1.52622e-21	7.40174e-21	2.38138e-20
1.00000e-08	6.28906e-23	3.29180e-22	1.52622e-21	7.40173e-21	2.38138e-20
1.00000e-09	6.28906e-23	3.29180e-22	1.52622e-21	7.40173e-21	2.38138e-20

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	2.06307e-20	1.30250e-14	4.14133e-12	6.90824e-10	2.66528e-08

1.00000e+07	7.06684e-16	1.06071e-10	7.09735e-09	5.12561e-08	1.62124e-07
1.00000e+06	1.65587e-13	4.06402e-09	1.58138e-07	5.70947e-07	9.53371e-07
100000.	8.04799e-13	3.81506e-09	1.69081e-07	7.42809e-07	1.29675e-06
10000.0	1.48181e-13	4.74042e-10	4.18719e-08	3.66726e-07	9.02735e-07
1000.00	5.50707e-15	4.03782e-11	1.03336e-08	1.58451e-07	4.77298e-07
100.000	6.01005e-16	6.55545e-12	2.66776e-09	4.68965e-08	1.38031e-07
10.0000	4.21852e-16	1.18762e-12	4.13060e-10	6.97942e-09	2.19133e-08
1.00000	3.72680e-16	3.19335e-13	5.50075e-11	1.01001e-09	5.76424e-09
0.100000	3.30535e-16	2.21234e-13	2.00405e-11	4.35294e-10	4.17364e-09
0.0100000	3.25375e-16	2.10906e-13	1.66612e-11	3.80391e-10	4.01906e-09
0.00100000	3.24825e-16	2.09785e-13	1.63211e-11	3.74988e-10	4.00386e-09
0.000100000	3.24765e-16	2.09666e-13	1.62869e-11	3.74454e-10	4.00236e-09
1.00000e-05	3.24759e-16	2.09654e-13	1.62835e-11	3.74401e-10	4.00222e-09
1.00000e-06	3.24758e-16	2.09653e-13	1.62832e-11	3.74396e-10	4.00220e-09
1.00000e-07	3.24758e-16	2.09652e-13	1.62831e-11	3.74395e-10	4.00220e-09
1.00000e-08	3.24758e-16	2.09652e-13	1.62831e-11	3.74395e-10	4.00220e-09
1.00000e-09	3.24758e-16	2.09652e-13	1.62831e-11	3.74395e-10	4.00220e-09

Pa\K | 900.000 1000.00 1100.00 1200.00 1300.00

1.00000e+08	2.69758e-07	9.21201e-07	1.81541e-06	2.28673e-06	1.92760e-06
1.00000e+07	6.65502e-07	3.95298e-06	1.28165e-05	2.37650e-05	3.08356e-05
1.00000e+06	1.39386e-06	3.41520e-06	1.08138e-05	2.24309e-05	3.55917e-05
100000.	1.75270e-06	2.51755e-06	4.72243e-06	8.99055e-06	1.63798e-05
10000.0	1.32046e-06	1.65191e-06	2.29615e-06	3.81212e-06	6.91400e-06
1000.00	6.78877e-07	7.70172e-07	1.01404e-06	1.74493e-06	3.37299e-06
100.000	1.81913e-07	2.42234e-07	4.83687e-07	1.13610e-06	2.51740e-06
10.0000	4.46058e-08	1.27441e-07	3.90618e-07	1.04390e-06	2.39355e-06
1.00000	2.74181e-08	1.14297e-07	3.80551e-07	1.03401e-06	2.37985e-06
0.100000	2.57225e-08	1.13010e-07	3.79567e-07	1.03303e-06	2.37846e-06
0.0100000	2.55568e-08	1.12884e-07	3.79471e-07	1.03293e-06	2.37832e-06
0.00100000	2.55405e-08	1.12872e-07	3.79461e-07	1.03292e-06	2.37831e-06
0.000100000	2.55389e-08	1.12871e-07	3.79460e-07	1.03292e-06	2.37831e-06
1.00000e-05	2.55387e-08	1.12871e-07	3.79460e-07	1.03292e-06	2.37831e-06
1.00000e-06	2.55387e-08	1.12871e-07	3.79460e-07	1.03292e-06	2.37831e-06
1.00000e-07	2.55387e-08	1.12871e-07	3.79460e-07	1.03292e-06	2.37831e-06
1.00000e-08	2.55387e-08	1.12871e-07	3.79460e-07	1.03292e-06	2.37831e-06
1.00000e-09	2.55387e-08	1.12871e-07	3.79460e-07	1.03292e-06	2.37831e-06

Pa\K | 1400.00 1500.00 1750.00 2000.00 2250.00

1.00000e+08	1.19249e-06	6.41902e-07	0.000203166	0.000203895	0.000212353
1.00000e+07	3.20287e-05	2.91406e-05	0.000275073	0.000354394	0.000430755
1.00000e+06	4.84791e-05	5.93151e-05	0.000395685	0.000583245	0.000578280
100000.	2.73623e-05	4.03280e-05	0.000311335	0.000434920	0.000347969
10000.0	1.22179e-05	1.96242e-05	0.000140844	0.000191486	0.000159553
1000.00	6.36309e-06	1.10244e-05	5.45960e-05	8.48100e-05	0.000102192
100.000	5.01061e-06	8.97026e-06	3.12593e-05	6.00317e-05	9.20079e-05
10.0000	4.80849e-06	8.64763e-06	2.72350e-05	5.62412e-05	9.06983e-05
1.00000	4.78519e-06	8.60923e-06	2.67269e-05	5.57936e-05	9.05565e-05
0.100000	4.78278e-06	8.60524e-06	2.66729e-05	5.57471e-05	9.05422e-05
0.0100000	4.78255e-06	8.60484e-06	2.66675e-05	5.57425e-05	9.05408e-05
0.00100000	4.78252e-06	8.60480e-06	2.66670e-05	5.57420e-05	9.05407e-05
0.000100000	4.78252e-06	8.60479e-06	2.66669e-05	5.57420e-05	9.05407e-05
1.00000e-05	4.78252e-06	8.60479e-06	2.66669e-05	5.57420e-05	9.05407e-05
1.00000e-06	4.78252e-06	8.60479e-06	2.66669e-05	5.57420e-05	9.05407e-05
1.00000e-07	4.78252e-06	8.60479e-06	2.66669e-05	5.57420e-05	9.05407e-05
1.00000e-08	4.78252e-06	8.60479e-06	2.66669e-05	5.57420e-05	9.05407e-05
1.00000e-09	4.78252e-06	8.60479e-06	2.66669e-05	5.57420e-05	9.05407e-05

Pa\K | 2500.00 2750.00 3000.00 3250.00 3500.00

1.00000e+08	0.000228781	0.000249549	0.000268142	0.000279165	0.000280960
1.00000e+07	0.000459854	0.000438623	0.000390386	0.000339222	0.000297683
1.00000e+06	0.000456385	0.000343349	0.000274308	0.000240800	0.000227301
100000.	0.000246495	0.000203188	0.000195147	0.000199924	0.000207149
10000.0	0.000148663	0.000160897	0.000178149	0.000193184	0.000204438
1000.00	0.000127689	0.000154041	0.000175910	0.000192417	0.000204160
100.000	0.000124741	0.000153225	0.000175670	0.000192341	0.000204134
10.0000	0.000124408	0.000153140	0.000175647	0.000192333	0.000204131
1.00000	0.000124374	0.000153131	0.000175644	0.000192333	0.000204131
0.100000	0.000124371	0.000153131	0.000175644	0.000192333	0.000204131
0.0100000	0.000124371	0.000153131	0.000175644	0.000192333	0.000204131
0.00100000	0.000124371	0.000153131	0.000175644	0.000192333	0.000204131
0.000100000	0.000124371	0.000153131	0.000175644	0.000192333	0.000204131
1.00000e-05	0.000124371	0.000153131	0.000175644	0.000192333	0.000204131
1.00000e-06	0.000124371	0.000153131	0.000175644	0.000192333	0.000204131
1.00000e-07	0.000124371	0.000153131	0.000175644	0.000192333	0.000204131
1.00000e-08	0.000124371	0.000153131	0.000175644	0.000192333	0.000204131
1.00000e-09	0.000124371	0.000153131	0.000175644	0.000192333	0.000204131

Pa\K	3750.00	4000.00
1.00000e+08	0.000275186	0.000264884
1.00000e+07	0.000268373	0.000249174
1.00000e+06	0.000222915	0.000221836
100000.	0.000213225	0.000217269
10000.0	0.000212112	0.000216810
1000.00	0.000212007	0.000216770
100.000	0.000211997	0.000216766
10.0000	0.000211996	0.000216766
1.00000	0.000211996	0.000216766
0.100000	0.000211996	0.000216766
0.0100000	0.000211996	0.000216766
0.00100000	0.000211996	0.000216766
0.000100000	0.000211996	0.000216766
1.00000e-05	0.000211996	0.000216766
1.00000e-06	0.000211996	0.000216766
1.00000e-07	0.000211996	0.000216766
1.00000e-08	0.000211996	0.000216766
1.00000e-09	0.000211996	0.000216766

Benzyl+C2H2
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Pa\K	20.0000	30.0000	40.0000	50.0000	60.0000
1.00000e+08	8.63868e-13	2.02165e-12	3.92745e-12	7.12724e-12	1.23358e-11
1.00000e+07	8.63849e-12	2.02156e-11	3.92722e-11	7.12668e-11	1.23347e-10
1.00000e+06	8.63662e-11	2.02070e-10	3.92484e-10	7.12115e-10	1.23229e-09
100000.	8.61794e-10	2.01219e-09	3.90137e-09	7.06674e-09	1.22077e-08
10000.0	8.43911e-09	1.93401e-08	3.69331e-08	6.60017e-08	1.12517e-07
1000.00	7.17762e-08	1.49406e-07	2.68642e-07	4.58400e-07	7.49480e-07
100.000	3.79658e-07	6.31974e-07	1.00038e-06	1.55582e-06	2.34453e-06
10.0000	7.51988e-07	9.86783e-07	1.45221e-06	2.15879e-06	3.12530e-06
1.00000	8.07768e-07	1.03577e-06	1.52093e-06	2.25066e-06	3.24005e-06
0.100000	8.11542e-07	1.04051e-06	1.52819e-06	2.26046e-06	3.25224e-06
0.0100000	8.11881e-07	1.04098e-06	1.52893e-06	2.26146e-06	3.25348e-06
0.00100000	8.11914e-07	1.04103e-06	1.52900e-06	2.26156e-06	3.25360e-06
0.000100000	8.11917e-07	1.04104e-06	1.52901e-06	2.26157e-06	3.25362e-06
1.00000e-05	8.11918e-07	1.04104e-06	1.52902e-06	2.26158e-06	3.25364e-06
1.00000e-06	8.11928e-07	1.04106e-06	1.52906e-06	2.26165e-06	3.25378e-06
1.00000e-07	8.11973e-07	1.04113e-06	1.52917e-06	2.26183e-06	3.25405e-06
1.00000e-08	8.12017e-07	1.04117e-06	1.52923e-06	2.26191e-06	3.25416e-06
1.00000e-09	8.12023e-07	1.04118e-06	1.52923e-06	2.26192e-06	3.25417e-06

Pa\K	70.0000	80.0000	90.0000	100.000	110.000
1.00000e+08	2.06313e-11	3.36684e-11	5.39888e-11	8.54966e-11	1.34180e-10
1.00000e+07	2.06289e-10	3.36638e-10	5.39800e-10	8.54801e-10	1.34150e-09
1.00000e+06	2.06052e-09	3.36177e-09	5.38923e-09	8.53154e-09	1.33843e-08
100000.	2.03744e-08	3.31709e-08	5.30464e-08	8.37379e-08	1.30930e-07
10000.0	1.85211e-07	2.97081e-07	4.67412e-07	7.24718e-07	1.11094e-06
1000.00	1.18404e-06	1.82101e-06	2.74193e-06	4.05863e-06	5.92276e-06
100.000	3.42695e-06	4.88503e-06	6.82706e-06	9.39467e-06	1.27718e-05
10.0000	4.40363e-06	6.07395e-06	8.24508e-06	1.10602e-05	1.47053e-05
1.00000	4.54101e-06	6.23426e-06	8.42918e-06	1.12694e-05	1.49413e-05
0.100000	4.55551e-06	6.25108e-06	8.44840e-06	1.12911e-05	1.49657e-05
0.0100000	4.55698e-06	6.25278e-06	8.45034e-06	1.12933e-05	1.49682e-05
0.00100000	4.55713e-06	6.25295e-06	8.45054e-06	1.12936e-05	1.49685e-05
0.000100000	4.55715e-06	6.25298e-06	8.45058e-06	1.12936e-05	1.49686e-05
1.00000e-05	4.55719e-06	6.25307e-06	8.45076e-06	1.12940e-05	1.49693e-05
1.00000e-06	4.55744e-06	6.25350e-06	8.45148e-06	1.12952e-05	1.49711e-05
1.00000e-07	4.55784e-06	6.25406e-06	8.45224e-06	1.12961e-05	1.49723e-05
1.00000e-08	4.55797e-06	6.25422e-06	8.45242e-06	1.12963e-05	1.49726e-05
1.00000e-09	4.55799e-06	6.25424e-06	8.45244e-06	1.12964e-05	1.49726e-05

Pa\K	120.000	130.000	140.000	150.000	160.000
1.00000e+08	2.09193e-10	3.24450e-10	5.00981e-10	7.70343e-10	1.17955e-09
1.00000e+07	2.09136e-09	3.24345e-09	5.00788e-09	7.69988e-09	1.17891e-08
1.00000e+06	2.08569e-08	3.23301e-08	4.98871e-08	7.66485e-08	1.17253e-07
100000.	2.03230e-07	3.13575e-07	4.81257e-07	7.34786e-07	1.11589e-06
10000.0	1.68730e-06	2.54228e-06	3.80238e-06	5.64625e-06	8.32301e-06
1000.00	8.53738e-06	1.21705e-05	1.71706e-05	2.39845e-05	3.31767e-05
100.000	1.71954e-05	2.29673e-05	3.04687e-05	4.01756e-05	5.26776e-05
10.0000	1.94195e-05	2.55072e-05	3.33516e-05	4.34308e-05	5.63360e-05
1.00000	1.96844e-05	2.58034e-05	3.36818e-05	4.37980e-05	5.67432e-05
0.100000	1.97118e-05	2.58339e-05	3.37157e-05	4.38357e-05	5.67850e-05
0.0100000	1.97145e-05	2.58370e-05	3.37192e-05	4.38395e-05	5.67893e-05
0.00100000	1.97148e-05	2.58373e-05	3.37196e-05	4.38401e-05	5.67902e-05

0.000100000	1.97151e-05	2.58378e-05	3.37205e-05	4.38420e-05	5.67937e-05
1.00000e-05	1.97163e-05	2.58400e-05	3.37244e-05	4.38485e-05	5.68042e-05
1.00000e-06	1.97191e-05	2.58440e-05	3.37300e-05	4.38559e-05	5.68139e-05
1.00000e-07	1.97206e-05	2.58458e-05	3.37321e-05	4.38584e-05	5.68167e-05
1.00000e-08	1.97208e-05	2.58461e-05	3.37324e-05	4.38587e-05	5.68170e-05
1.00000e-09	1.97209e-05	2.58461e-05	3.37324e-05	4.38587e-05	5.68171e-05

Pa\K	170.000	180.000	190.000	200.000	210.000
1.00000e+08	1.79813e-09	2.72808e-09	4.11785e-09	6.18178e-09	9.22675e-09
1.00000e+07	1.79696e-08	2.72596e-08	4.11406e-08	6.17502e-08	9.21480e-08
1.00000e+06	1.78542e-07	2.70520e-07	4.07695e-07	6.10919e-07	9.09897e-07
100000.	1.68501e-06	2.52881e-06	3.77017e-06	5.58139e-06	8.20134e-06
10000.0	1.21753e-05	1.76679e-05	2.54215e-05	3.62533e-05	5.12212e-05
1000.00	4.54518e-05	6.16779e-05	8.29126e-05	0.000110431	0.000145752
100.000	6.86976e-05	8.91151e-05	0.000114991	0.000147596	0.000188436
10.0000	7.27913e-05	9.36769e-05	0.000120054	0.000153192	0.000194598
1.00000	7.32419e-05	9.41743e-05	0.000120602	0.000153793	0.000195256
0.100000	7.32881e-05	9.42253e-05	0.000120658	0.000153855	0.000195323
0.0100000	7.32929e-05	9.42307e-05	0.000120664	0.000153862	0.000195333
0.00100000	7.32944e-05	9.42335e-05	0.000120669	0.000153872	0.000195350
0.000100000	7.33010e-05	9.42452e-05	0.000120689	0.000153906	0.000195403
1.00000e-05	7.33171e-05	9.42691e-05	0.000120724	0.000153953	0.000195467
1.00000e-06	7.33295e-05	9.42845e-05	0.000120742	0.000153975	0.000195492
1.00000e-07	7.33326e-05	9.42878e-05	0.000120746	0.000153979	0.000195496
1.00000e-08	7.33329e-05	9.42882e-05	0.000120746	0.000153979	0.000195497
1.00000e-09	7.33330e-05	9.42883e-05	0.000120746	0.000153979	0.000195497

Pa\K	220.000	230.000	240.000	250.000	260.000
1.00000e+08	1.36886e-08	2.01812e-08	2.95620e-08	4.30192e-08	6.21857e-08
1.00000e+07	1.36676e-07	2.01447e-07	2.94991e-07	4.29115e-07	6.20033e-07
1.00000e+06	1.34656e-06	1.97955e-06	2.89014e-06	4.18986e-06	6.03041e-06
100000.	1.19574e-05	1.72931e-05	2.48023e-05	3.52709e-05	4.97274e-05
10000.0	7.16746e-05	9.93062e-05	0.000136206	0.000184917	0.000248482
1000.00	0.000190675	0.000247304	0.000318081	0.000405821	0.000513738
100.000	0.000239286	0.000302224	0.000379655	0.000474351	0.000589480
10.0000	0.000246044	0.000309606	0.000387687	0.000483056	0.000598878
1.00000	0.000246762	0.000310387	0.000388534	0.000483972	0.000599865
0.100000	0.000246837	0.000310468	0.000388623	0.000484070	0.000599974
0.0100000	0.000246849	0.000310486	0.000388650	0.000484113	0.000600044
0.00100000	0.000246879	0.000310538	0.000388738	0.000484256	0.000600268
0.000100000	0.000246962	0.000310661	0.000388915	0.000484502	0.000600601
1.00000e-05	0.000247044	0.000310766	0.000389043	0.000484657	0.000600783
1.00000e-06	0.000247073	0.000310798	0.000389079	0.000484695	0.000600824
1.00000e-07	0.000247078	0.000310802	0.000389083	0.000484700	0.000600829
1.00000e-08	0.000247078	0.000310803	0.000389084	0.000484700	0.000600830
1.00000e-09	0.000247078	0.000310803	0.000389084	0.000484700	0.000600830

Pa\K	270.000	280.000	290.000	300.000	310.000
1.00000e+08	8.92885e-08	1.27341e-07	1.80388e-07	1.05339e-06	3.54785e-07
1.00000e+07	8.89822e-07	1.26831e-06	1.79548e-06	1.03274e-05	3.52564e-06
1.00000e+06	8.61615e-06	1.22198e-05	1.72020e-05	8.93208e-05	3.33323e-05
100000.	6.95010e-05	9.62908e-05	0.000132242	0.000503375	0.000242966
10000.0	0.000330492	0.000435124	0.000567170	0.00127802	0.000935862
1000.00	0.000645475	0.000805133	0.000997291	0.00160525	0.00149995
100.000	0.000728634	0.000895861	0.00109569	0.00165274	0.00161374
10.0000	0.000738741	0.000906689	0.00110724	0.00165790	0.00162676
1.00000	0.000739801	0.000907824	0.00110846	0.00165847	0.00162814
0.100000	0.000739925	0.000907969	0.00110863	0.00165874	0.00162843
0.0100000	0.000740040	0.000908155	0.00110893	0.00165951	0.00162914
0.00100000	0.000740380	0.000908656	0.00110964	0.00166067	0.00163049
0.000100000	0.000740818	0.000909217	0.00111035	0.00166137	0.00163152
1.00000e-05	0.000741028	0.000909456	0.00111061	0.00166156	0.00163184
1.00000e-06	0.000741072	0.000909501	0.00111066	0.00166158	0.00163188
1.00000e-07	0.000741077	0.000909507	0.00111066	0.00166158	0.00163189
1.00000e-08	0.000741077	0.000909507	0.00111067	0.00166158	0.00163189
1.00000e-09	0.000741078	0.000909507	0.00111067	0.00166158	0.00163189

Pa\K	400.000	500.000	600.000	700.000	800.000
1.00000e+08	2.00243e-05	0.000292689	0.000404484	0.0433217	0.174695
1.00000e+07	0.000187250	0.00234336	0.0208214	0.106108	0.257047
1.00000e+06	0.00132131	0.0113051	0.0552765	0.154650	0.282380
100000.	0.00490731	0.0249417	0.0758740	0.159793	0.264427
10000.0	0.00801313	0.0301247	0.0785005	0.156337	0.254973
1000.00	0.00871911	0.0308209	0.0783119	0.154779	0.252417
100.000	0.00880491	0.0308789	0.0780630	0.153809	0.251094
10.0000	0.00881426	0.0308915	0.0780845	0.153849	0.251309

1.00000	0.00881797	0.0309393	0.0783007	0.154245	0.251723
0.100000	0.00882710	0.0310083	0.0784644	0.154426	0.251848
0.0100000	0.00883935	0.0310498	0.0785177	0.154464	0.251868
0.00100000	0.00884634	0.0310615	0.0785271	0.154469	0.251870
0.000100000	0.00884818	0.0310633	0.0785282	0.154470	0.251870
1.00000e-05	0.00884845	0.0310635	0.0785283	0.154470	0.251870
1.00000e-06	0.00884847	0.0310635	0.0785283	0.154470	0.251870
1.00000e-07	0.00884848	0.0310635	0.0785283	0.154470	0.251870
1.00000e-08	0.00884848	0.0310635	0.0785283	0.154470	0.251870
1.00000e-09	0.00884848	0.0310635	0.0785283	0.154470	0.251870

Pa\K | 900.000 | 1000.00 | 1100.00 | 1200.00 | 1300.00

1.00000e+08	0.322413	0.449803	0.559364	0.613535	0.631145
1.00000e+07	0.396804	0.519820	0.631441	0.699349	0.731127
1.00000e+06	0.405330	0.517279	0.612974	0.677367	0.718514
100000.	0.374302	0.478163	0.568241	0.639337	0.694644
10000.0	0.360799	0.462442	0.552689	0.628031	0.688587
1000.00	0.357863	0.459728	0.550456	0.626539	0.687858
100.000	0.357010	0.459467	0.550438	0.626586	0.687975
10.0000	0.357448	0.459874	0.550684	0.626716	0.688063
1.00000	0.357742	0.460029	0.550749	0.626743	0.688078
0.100000	0.357804	0.460053	0.550758	0.626746	0.688080
0.0100000	0.357812	0.460056	0.550759	0.626747	0.688080
0.00100000	0.357813	0.460056	0.550759	0.626747	0.688080
0.000100000	0.357813	0.460056	0.550759	0.626747	0.688080
1.00000e-05	0.357813	0.460056	0.550759	0.626747	0.688080
1.00000e-06	0.357813	0.460056	0.550759	0.626747	0.688080
1.00000e-07	0.357813	0.460056	0.550759	0.626747	0.688080
1.00000e-08	0.357813	0.460056	0.550759	0.626747	0.688080
1.00000e-09	0.357813	0.460056	0.550759	0.626747	0.688080

Pa\K | 1400.00 | 1500.00 | 1750.00 | 2000.00 | 2250.00

1.00000e+08	0.639707	0.648393	0.777821	0.795044	0.812866
1.00000e+07	0.750036	0.766195	0.813004	0.842311	0.860590
1.00000e+06	0.750281	0.777581	0.832067	0.861888	0.875258
100000.	0.738866	0.774297	0.836402	0.865581	0.877690
10000.0	0.736374	0.773676	0.837177	0.866213	0.878111
1000.00	0.736177	0.773775	0.837460	0.866372	0.878188
100.000	0.736360	0.773985	0.837599	0.866418	0.878201
10.0000	0.736437	0.774055	0.837634	0.866427	0.878203
1.00000	0.736449	0.774066	0.837639	0.866428	0.878204
0.100000	0.736450	0.774067	0.837640	0.866428	0.878204
0.0100000	0.736450	0.774067	0.837640	0.866428	0.878204
0.00100000	0.736450	0.774067	0.837640	0.866428	0.878204
0.000100000	0.736450	0.774067	0.837640	0.866428	0.878204
1.00000e-05	0.736450	0.774067	0.837640	0.866428	0.878204
1.00000e-06	0.736450	0.774067	0.837640	0.866428	0.878204
1.00000e-07	0.736450	0.774067	0.837640	0.866428	0.878204
1.00000e-08	0.736450	0.774067	0.837640	0.866428	0.878204
1.00000e-09	0.736450	0.774067	0.837640	0.866428	0.878204

Pa\K | 2500.00 | 2750.00 | 3000.00 | 3250.00 | 3500.00

1.00000e+08	0.826889	0.835125	0.837523	0.835024	0.828853
1.00000e+07	0.868133	0.867648	0.861754	0.852414	0.840990
1.00000e+06	0.877996	0.874024	0.865827	0.855009	0.842637
100000.	0.879537	0.875005	0.866455	0.855410	0.842888
10000.0	0.879799	0.875165	0.866553	0.855468	0.842923
1000.00	0.879838	0.875186	0.866564	0.855475	0.842927
100.000	0.879843	0.875188	0.866566	0.855476	0.842928
10.0000	0.879843	0.875189	0.866566	0.855476	0.842928
1.00000	0.879843	0.875189	0.866566	0.855476	0.842928
0.100000	0.879843	0.875189	0.866566	0.855476	0.842928
0.0100000	0.879843	0.875189	0.866566	0.855476	0.842928
0.00100000	0.879843	0.875189	0.866566	0.855476	0.842928
0.000100000	0.879843	0.875189	0.866566	0.855476	0.842928
1.00000e-05	0.879843	0.875189	0.866566	0.855476	0.842928
1.00000e-06	0.879843	0.875189	0.866566	0.855476	0.842928
1.00000e-07	0.879843	0.875189	0.866566	0.855476	0.842928
1.00000e-08	0.879843	0.875189	0.866566	0.855476	0.842928
1.00000e-09	0.879843	0.875189	0.866566	0.855476	0.842928

Pa\K | 3750.00 | 4000.00

1.00000e+08	0.820144	0.809823
1.00000e+07	0.828404	0.815283
1.00000e+06	0.829436	0.815911
100000.	0.829590	0.816003

10000.0	0.829611	0.816015
1000.00	0.829613	0.816016
100.000	0.829614	0.816017
10.0000	0.829614	0.816017
1.00000	0.829614	0.816017
0.100000	0.829614	0.816017
0.0100000	0.829614	0.816017
0.00100000	0.829614	0.816017
0.000100000	0.829614	0.816017
1.00000e-05	0.829614	0.816017
1.00000e-06	0.829614	0.816017
1.00000e-07	0.829614	0.816017
1.00000e-08	0.829614	0.816017
1.00000e-09	0.829614	0.816017